CITTÀ METROPOLITANA DI BOLOGNA

AREA SERVIZI TERRITORIALI METROPOLITANI

.....

SERVIZIO EDILIZIA SCOLASTICA ed ISTITUZIONALE

.....

U.O. Edilizia Scolastica

COMUNE DI BOLOGNA

.....

PROGETTO PER LA REALIZZAZIONE DEL POLO DINAMICO

Via Zacconi, Bologna

PROGETTO ESECUTIVO

IMPORTO DI PROGETTO:	€ 8.500.000,00
PROPRIETÀ:	CITTÀ METROPOLITANA DI BOLOGNA
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Progettista generale ed architettonico	arch. M. D'Oria
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Collaboratori	ing. L. Prandstraller, geom. A. Bolognesi, geom. R. Marchesini
Progetto strutturale	S.A.P. Studio Associato di Progettazione
	ing. F. Malaguti, ing. P. Parma
Progetto impianti e antincendio	ing. S. Dalmonte

oggetto:

U.S. 02 – Blocco Angolo
RELAZIONE DI CALCOLO STRUTTURALE

tavola n°: ST-R 04

Scala elaborato:

Cod. PBM: 2018EDSCON05

Data: Giugno 2019 | Rev: 0/2019

PROGETTO STRUTTURE

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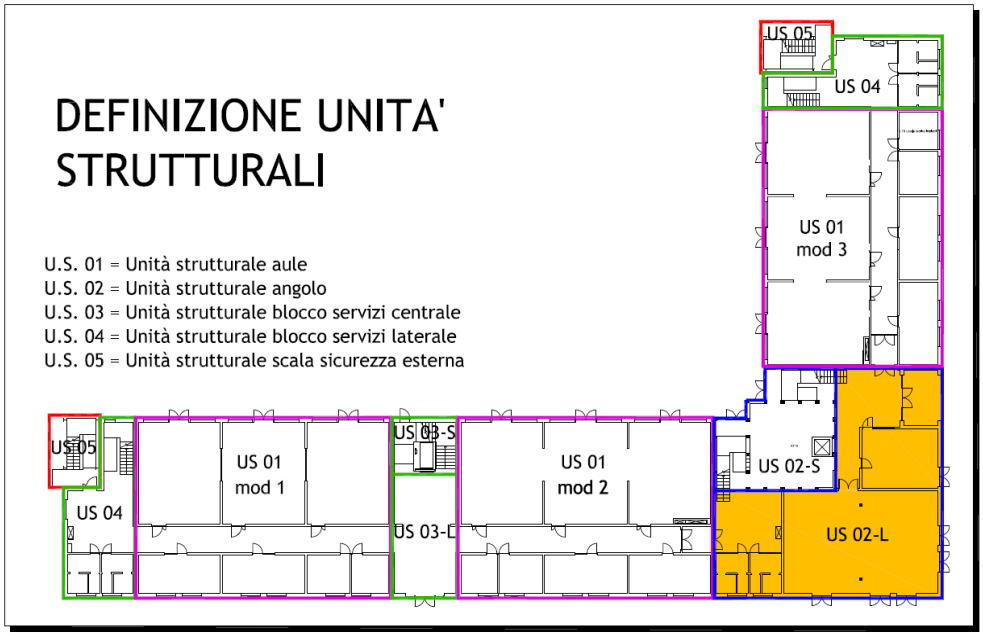
SOMMARIO:

1 PREMESSA

La presente relazione riporta i principali calcoli e considerazioni svolti dagli scriventi per il corretto dimensionamento delle opere strutturali di un edificio ad uso scolastico denominato "*Polo Dinamico*" da realizzarsi presso l'area del Liceo Copernico di Bologna, in Via Zacconi, in zona Fiera.

In questa relazione si riportano i calcoli relativi all'unità strutturale US 02, identificativa del Blocco servizi Angolo, e le sue sotto unità US 02-L ed US 02-S, come definita nell'elaborato "ST-R 01 Relazione generale", rimandando a quest'ultimo le informazioni che interessano a carattere generale l'insieme del Polo dinamico.

Nelle immagini di seguito riportate si identificano, mediante retinatura di colore arancione, le unità strutturali oggetto della presente.



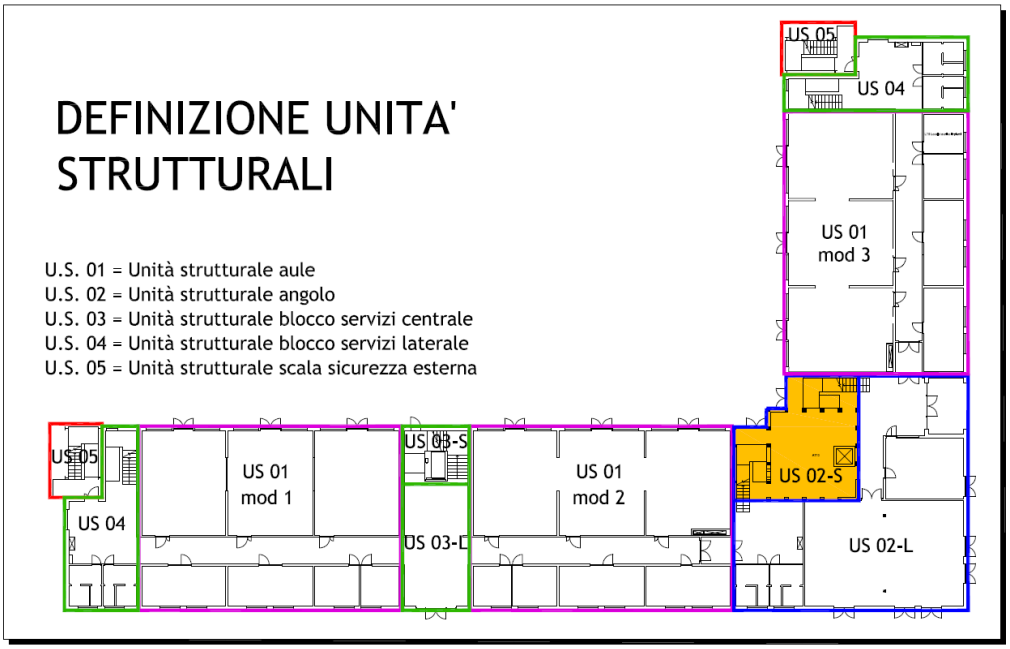


Figura 1: Planimetria generale Polo dinamico con individuazione delle Unità strutturali 02-L e 02-S relative al blocco Angolo

La presente relazione di calcolo viene illustrata seguendo le indicazioni della DGR 1373 del settembre 2011 della Regione Emilia Romagna, facendo riferimento a quanto richiesto al punto B.2.2. ("Contenuti della Illustrazione Sintetica degli elementi essenziali del progetto strutturale"), evidenziando in modo sintetico le modalità che hanno portato il relatore alle scelte progettuali, riportando i risultati delle analisi più significativi e le verifiche del caso. In apposito elaborato ("ST-R 05") si riporta il tabulato di calcolo relativo alla modellazione strutturale agli elementi finiti eseguita mediante programma di calcolo.

2 LOCALIZZAZIONE INTERVENTO

Il progetto del Polo Dinamico sarà inserito nell'ampia area verde a servizio della palestra del liceo Copernico, in posizione sud-ovest del lotto, lungo la via Zacconi da cui potrà avere accesso diretto.
Le immagini di seguito riportate mostrano la localizzazione del sito oggetto di intervento con identificazione delle informazioni catastali e delle coordinate geografiche.

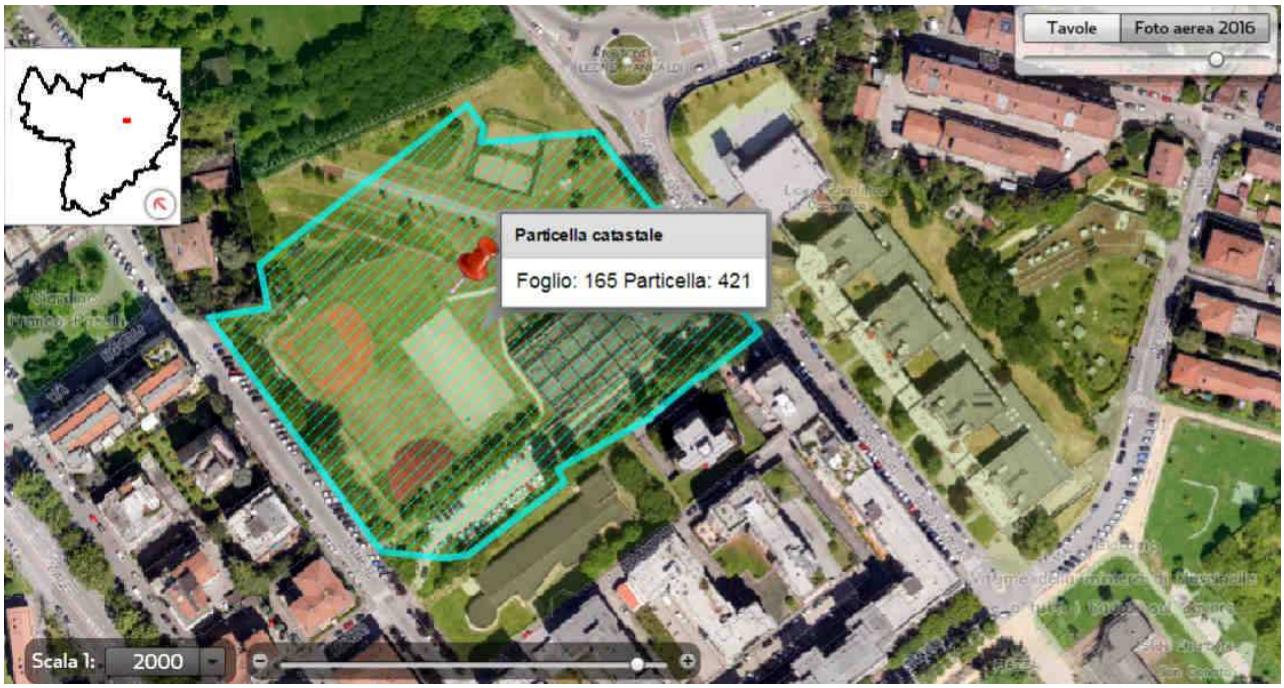


Figura 2: Fotografia aerea dell'area oggetto di intervento e identificazione catastale

L'area oggetto di nuova costruzione è di Proprietà Città metropolitana di Bologna e risulta censita al Nuovo catasto edilizio urbano del Comune di Bologna al Foglio 165 - mappali 421, 158, 159, 184.
Le coordinate geografiche del sito oggetto di nuova costruzione sono:

- Latitudine: 44°,507226;
- Longitudine: 11°,365167.

Figura 3: Fotografia aerea del sito

3 DESCRIZIONE DELLA STRUTTURA

Le opere in oggetto presentano come destinazione d'uso quella di edificio scolastico, l'intervento è classificabile come nuova costruzione ai sensi della Normativa vigente (NTC 2018). Le opere possono essere considerate come "opera ordinaria" caratterizzate da una Vita Nominale VN ≥ 50 anni, mentre relativamente alla Classe d'uso si ritiene di inserirle all'interno della "Classe III" che prevede "*Costruzioni il cui uso preveda affollamenti significativi. Industrie con attività pericolose per l'ambiente. Reti viarie extraurbane non ricadenti in Classe d'uso IV. Ponti e reti ferroviarie la cui interruzione provochi situazioni di emergenza. Dighe rilevanti per le conseguenze di un loro eventuale collasso*".

L'obiettivo del progetto è di realizzare un edificio scolastico che possa rispondere "dinamicamente" nel tempo, e con poche e semplici modifiche, a diverse esigenze didattiche delle scuole di volta in volta interessate a crescite ed espansioni delle proprie iscrizioni, oppure per sede temporanea per scuole destinate a parziali chiusure per necessità manutentive.
La particolarità della flessibilità è pertanto pensata dalla possibilità di separare le attività sia in senso verticale, che per piano, realizzando così porzioni utilizzabili autonomamente, "unità didattiche" composte da cinque aule e servizi, e multipli.
Questo progetto quindi prevede la realizzazione di "moduli" ripetibili in serie costituiti da due tipologie di "blocchi tipo" assemblabili tra loro, ma autonomi nella dotazione di servizi e impiantistica.

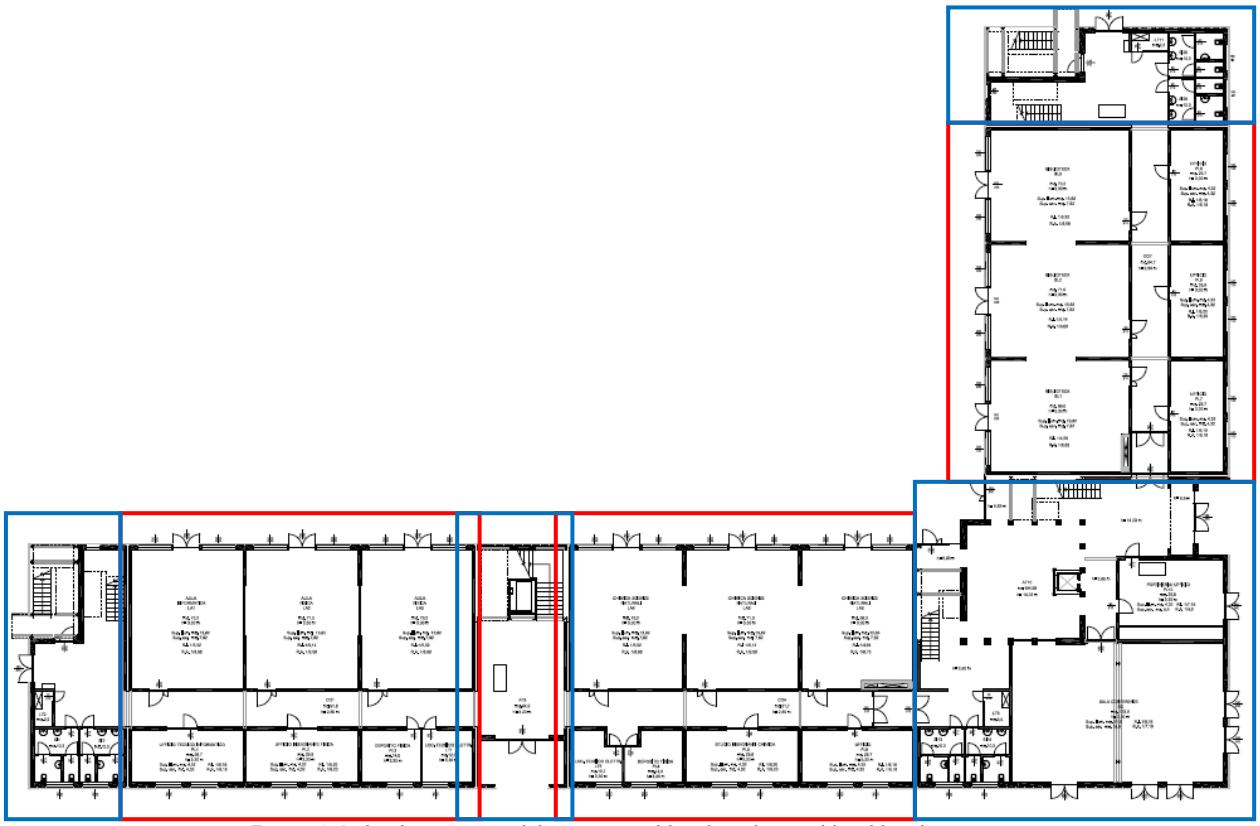


Figura 4: Individuazione moduli: in rosso i blocchi aule e in blu i blocchi servizi

La prima tipologia è un **"blocco aule"** che si sviluppa su tre piani: al piano terra trovano posto tre grandi laboratori con accesso diretto da un portico esterno. La possibilità di accesso dall'esterno garantisce l'utilizzo dello stesso laboratorio ad una o più scuole, ottimizzando così l'utilizzo degli spazi. La flessibilità compositiva permetterebbe comunque, con poca spesa, di poter chiudere il portico e/o utilizzare in tutto o in parte gli spazi per servizi accessori (segreterie, spazi collettivi, ecc.…) a seconda delle specifiche necessità del momento.

I piani superiori sono composti da cinque grandi aule dimensionate per accogliere anche 30 studenti, oltre che uno spazio centrale "open space" che, tramite chiusure vetrate richiudibili, può essere utilizzato quale ulteriore spazio "flessibile" (riunioni, sala professori, ulteriore aula, spazio relax, biblioteca, sala studio, ecc.…)

Il **"blocco servizi"** è posizionato alle due estremità del "blocco aule" e, a seconda delle configurazioni possibili, può accogliere, oltre ai connettivi verticali (scale + ascensore), i servizi igienici o spazio aperto per altri usi (atrio o locale di servizio). I "blocchi servizi" costituiscono anche, tramite appositi filtri areati, le eventuali separazioni tra le varie unità didattiche.

I due blocchi si collegano alternativamente in modo che ogni "blocco aule" sia separato da un altro tramite un "blocco servizi".

La particolare conformazione altimetrica dell'area interessata vede un dislivello nella zona centrale di circa 2,50 m. per cui, sfruttando questa particolarità, si potrà accedere direttamente alle aule del piano primo, mentre il piano terra si aprirà verso l'area verde sportiva. Si prevede la costruzione di tre moduli posizionati ad L, due allineati lungo la direttrice stradale ed il terzo perpendicolare, in direzione via Garavaglia. I primi due moduli costituiranno il primo stralcio assieme al corpo quadrato di collegamento,

che verrà utilizzato per le attività di servizio e locali ad uso collettivo, che sarà punto di intersezione della L.

Nello specifico della presente relazione, **l'Unità Strutturale 02 relativa al Modulo "Servizi Angolo"** si configura come spazio di collegamento tra le due stecche di edificio che, come descritto, presenta forma ad "L".
Tale blocco è al suo interno diviso in due zone, differenti anche dal punto di vista funzionale: una porzione con forma ad "L" a tre piani fuori terra ed una pressoché quadrata che ospita due vani scale, un ascensore e un atrio a triplo volume di altezza massima pari a 15 ml.
Per la diversità di conformazione geometrica tra le due zone si è optato per dividere l'US 02 in due sotto unità, denominando "US 02-L" la porzione con forma ad "L" che ospita le zone ricettive da realizzare in legno; e "US 02-S" la porzione ospitante le strutture di collegamento verticale che è stata dimensionata con struttura in acciaio.
Le due sotto-unità sono separate tra loro da un giunto di 10 cm.

L'unità strutturale "**US 02-L**" si sviluppa su tre piano fuori terra, è realizzata mediante strutture verticali portanti in legno con pannelli XLAM e strutture orizzontali sempre in legno ma di tipo lamellare GL32h. Presenta forma ad "L"; i due lati che costituiscono i fronti orientati a Sud e a Est hanno lunghezza uguale pari a circa 20,75 ml, mentre i due lati interni, che sono in adiacenza all'unità in acciaio (US 02-S), hanno dimensioni di circa 11,30 ml. Tale zona ospita i servizi igienici, nella parte a confine con il modulo Aule n.2, una sala conferenze al piano terra, uffici e aule polifunzionali, oltre a spazi connettivi. Nella zona della sala conferenze, per far fronte ad una luce di solaio elevata si è realizzato un telaio con due profili metallici HEB200, continui in altezza, sui quali, ai piani, mediante travi in legno lamellare GL32h accoppiate, scaricano i solai.
L'altezza massima dell'edificio è pari a circa 11,20 ml.
Per quanto riguarda i pannelli parete si è optato per pannelli verticali a 5 strati di spessore 40+20+40+20+40 mm per uno spessore di parete pari a 160 mm, di larghezza in modulo pari a 120 cm. Per quanto riguarda gli elementi di collegamento tra i pannelli verticali, quali le porzioni sopra e sotto le aperture, si utilizzano sempre i medesimi pannelli in direzione orizzontale, e quindi con asse della fibratura principale e secondaria ruotato rispetto ai pannelli verticali.
I solai del piano primo e secondo presentano uno spessore di 22 cm e sono costituiti da travi in legno lamellare GL32h di dimensioni 16x100 cm posizionate in orizzontale e collegate tra di loro mediante un collegamento che conferisca al solaio un comportamento di piano rigido. La porzione interna dei solai a confine della sotto unità in acciaio, è a sbalzo, e viene sostenuta da travi in legno lamellare Gl32h le quali continuano all'interno delle pareti in X-lam in modo da diminuire le sollecitazioni. Tali travi risultano con estradosso a filo dell'estradosso del solaio, e ad esso collegate mediante giunti legno-legno e opportunamente collegate con connettori metallici.
Il solaio di copertura presenta le medesime caratteristiche dei solai sottostanti ma ha uno spessore di 18 cm.

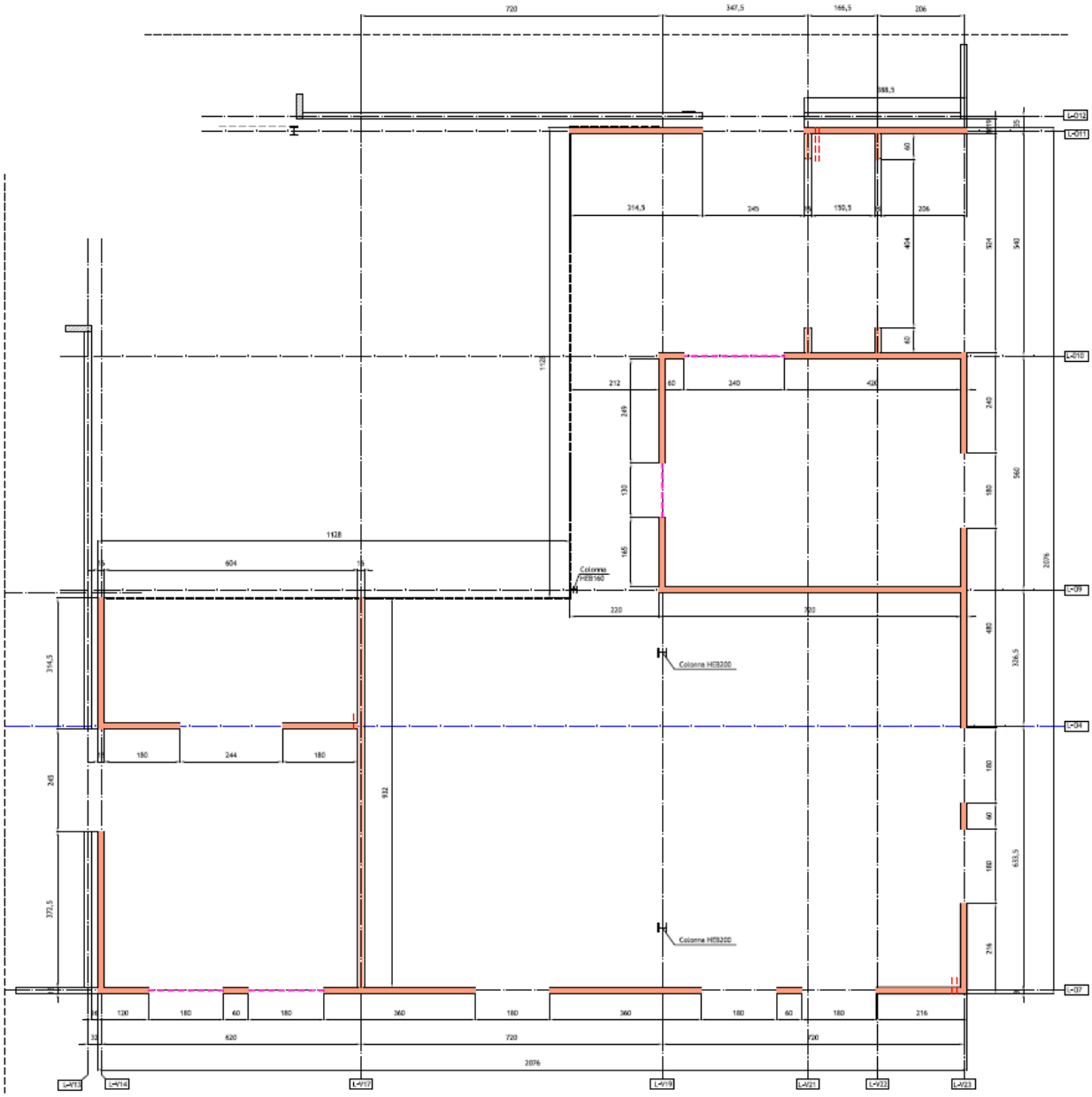


Figura 5: US 02-L planimetria piano terra porzione in X-lam

Figura 6: US 02-L planimetria piano primo porzione in X-lam

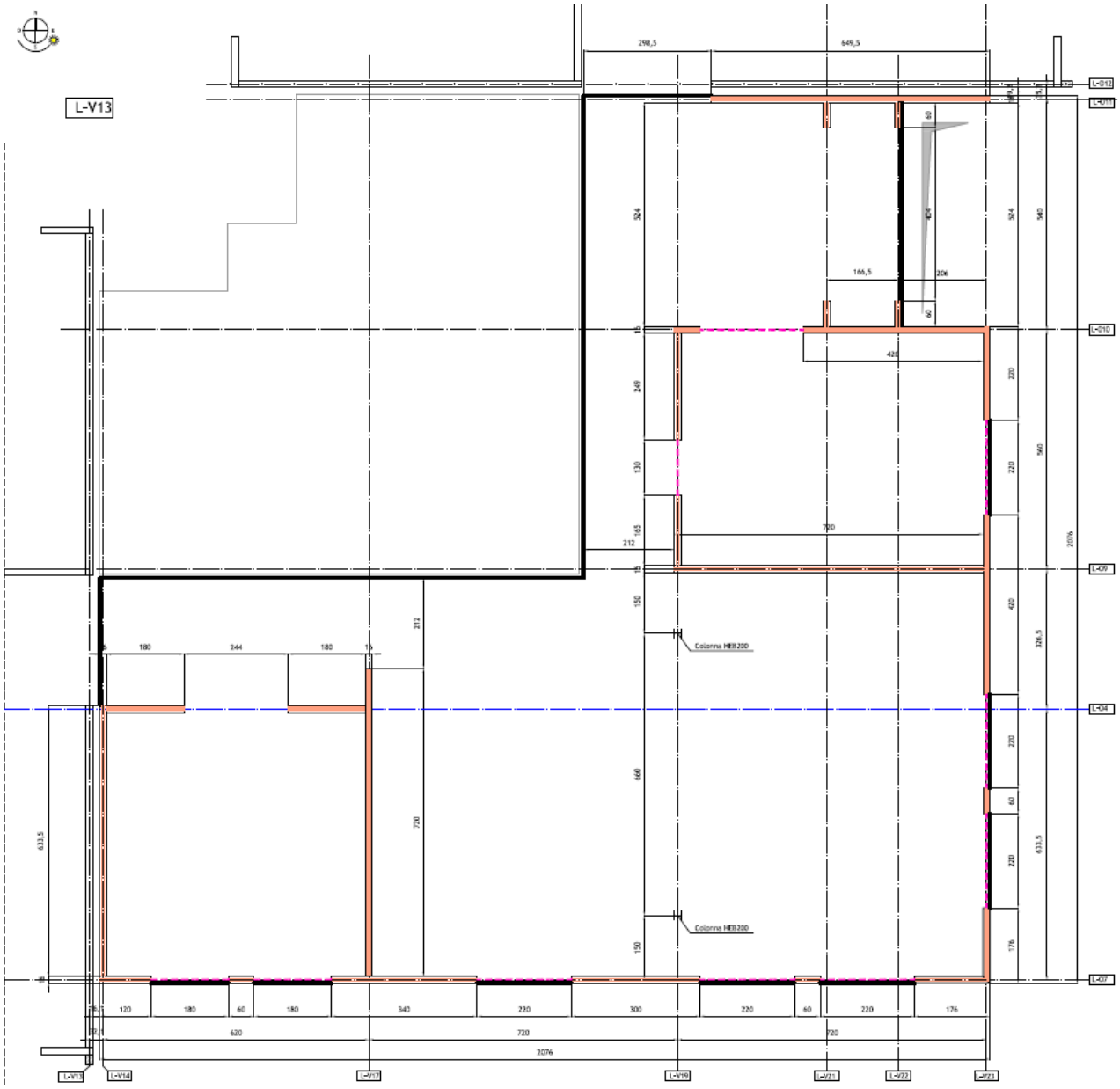


Figura 7: US 02-L planimetria secondo piano porzione X-lam

Per quanto riguarda la parte metallica (unità strutturale "**US 02-S**") il triplo volume presenta una pianta quadrata, di dimensioni pari a 8,20 ml di lato, all'interno della quale si trova la struttura dell'ascensore, sempre realizzata in carpenteria metallica. I due vani scala, di ingombro in pari a circa 6,20 x 3 ml, risultano in posizione simmetrica rispetto alla diagonale del triplo volume ed esterni alla sagoma di quest'ultimo. L'unico solaio presente risulta essere quello di copertura del triplo-volume, il quale risulta a quota maggiore e presenta una tipologia costruttiva differente rispetto agli altri solai di copertura del Polo dinamcio. I due solai di copertura dei vani scale sono infatti realizzati in legno lamellare GL32h, presentano uno spessore di 18 cm e si vanno a raccordare alla porzione di copertura che interessa la sotto unità in legno, raggiungendo un'altezza massima pari a 11,20 ml. Il coperto del triplo volume è invece realizzato sempre in legno GL32h ma con elementi travi a formare l'orditura principale e secondaria e tavolato in C24 da 4 cm.

I due vani scale sono realizzati da telai costituiti da montanti realizzati con profili metallici HEB 200 e travi realizzate con profili metallici HEB 200 e disposte in luce tra i montanti.

I cosciali delle rampe delle scale sono realizzati con piatti metallici di dimensioni 15x220 mm. I Gradini sono in lamiera piegata di acciaio con sezione a “z” di spessore 4 mm e dimensioni in pianta pari a 30x120 mm.

I Pianerottoli presentano struttura in grigliato anti tacco 15x76 mm con barre portanti 50x3 mm.

Il triplo volume presenta anch’esso telai costituiti da montanti realizzati con profili metallici HEB 200 e travi realizzate con profili metallici HEB 200 e disposte in luce tra i montanti. I pilastri dell’angolo sono invece profili tubolari di sezione 200 x 200 x 12,5 mm. Queste strutture si estendono in altezza per tutto lo sviluppo altimetrico del volume, non avendo solai di piano. Nei due angoli S-E e N-O sono presenti controventi realizzati con profili UPN 200. Circa a metà di uno dei due lati interni vi è la struttura dell’ascensore sempre in acciaio.

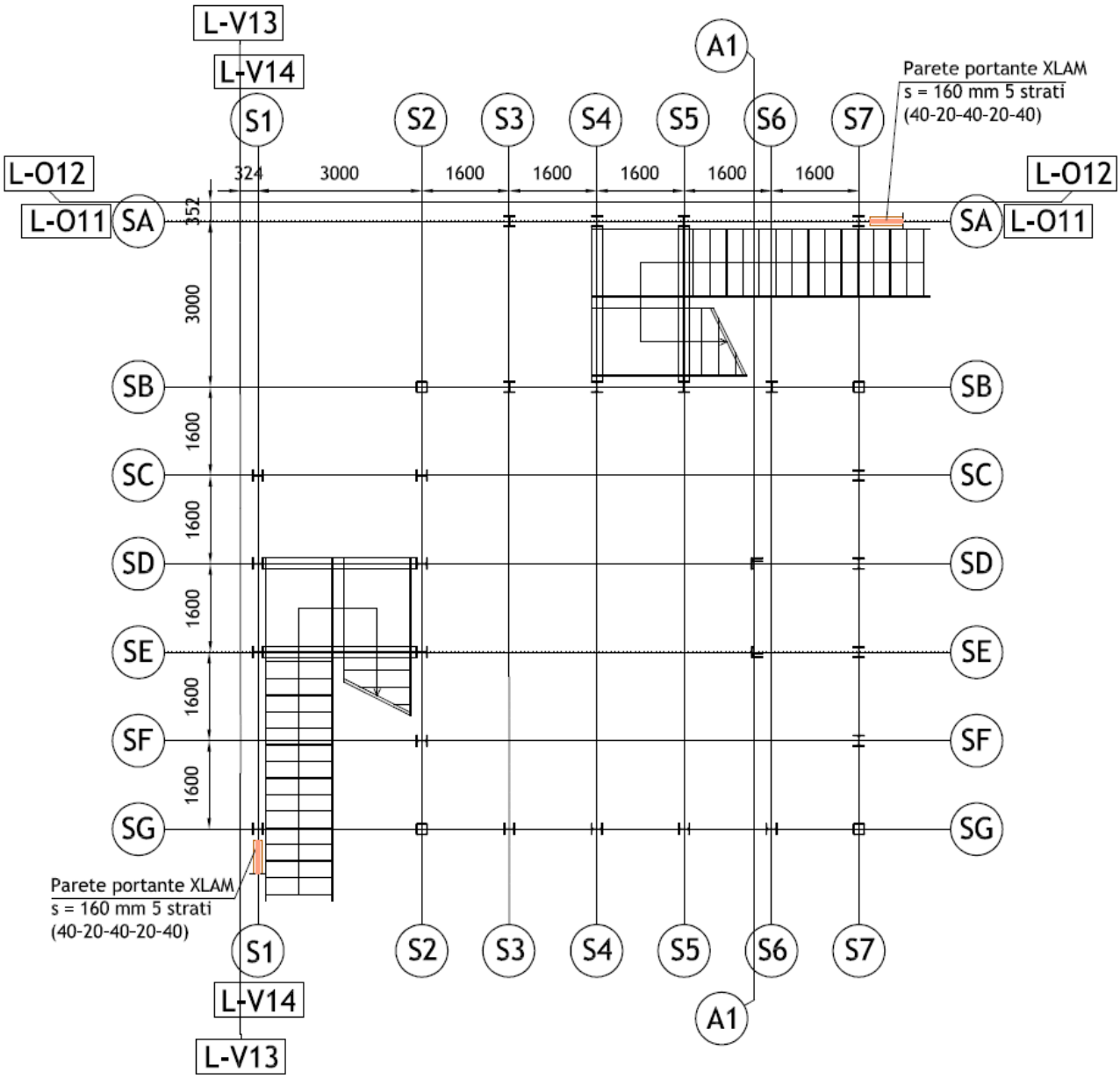


Figura 8: US 02-S planimetria piano terra zona triplo volume e vani scale

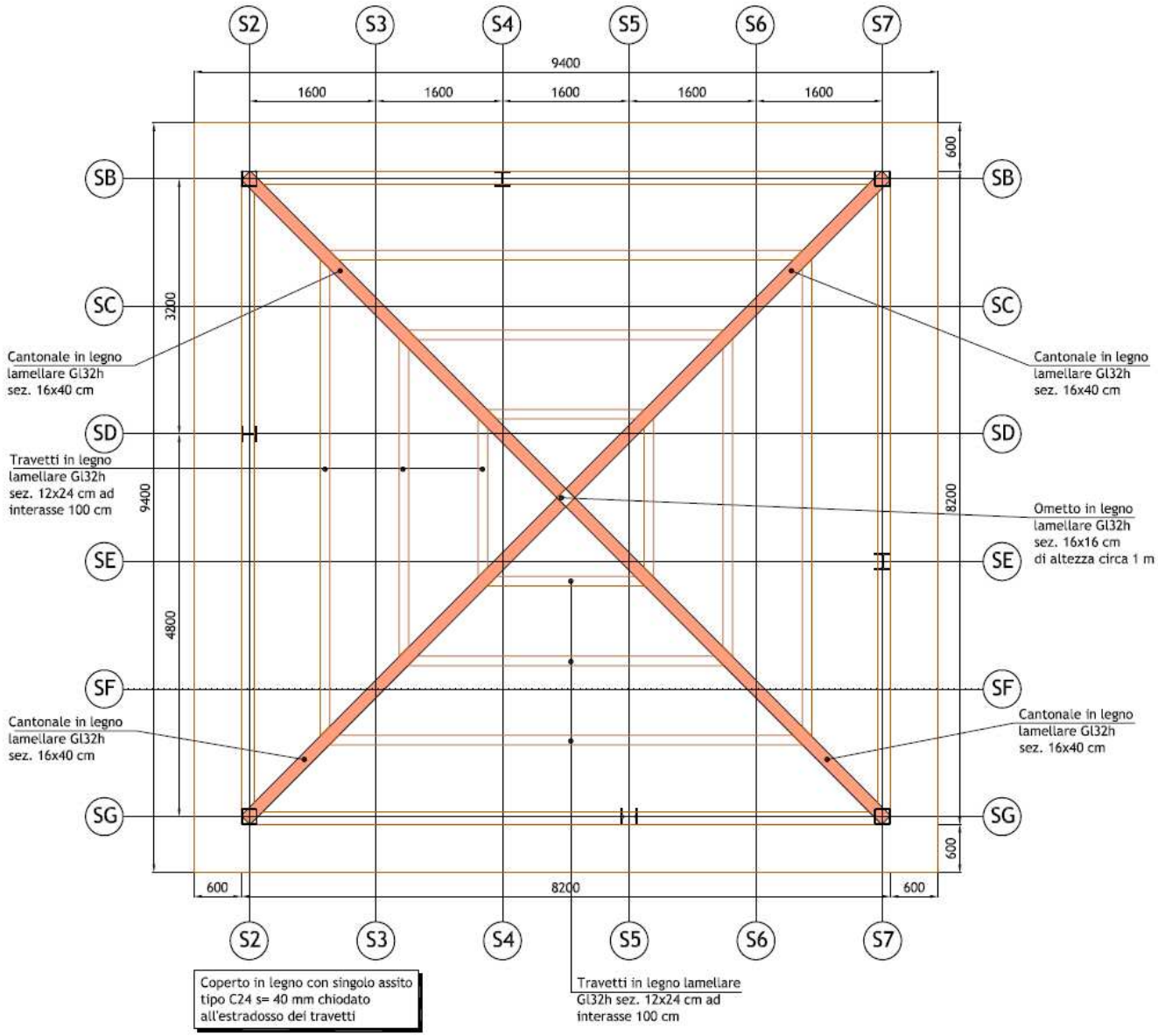


Figura 9: US 02-S pianta copertura zona triplo volume

Le opere di fondazione sono in conglomerato cementizio armato di tipo superficiale a platea dello spessore di 50 cm, per essa si rimanda alla relativa relazione di calcolo.

4 NORMATIVA DI RIFERIMENTO

1. D.Min. Infrastrutture Min. Interni e Prot. Civile 17 Gennaio 2018 e allegate "Norme tecniche per le costruzioni".
2. Circolare n.7 del C.S.LL.PP. del 21 gennaio 2019: “Istruzioni per l’applicazione dell’Aggiornamento delle Norme tecniche per le costruzioni di cui al decreto ministeriale 17 gennaio 2018”.
3. D.Min. Infrastrutture Min. Interni e Prot. Civile 14 Gennaio 2008 e allegate "Norme tecniche per le costruzioni".
4. D.Min. Infrastrutture e trasporti 14 Settembre 2005 e allegate "Norme tecniche per le costruzioni".

5. D.M. LL.PP. 9 Gennaio 1996 "Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche".
6. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>".
7. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche per le costruzioni in zone sismiche".
8. Circolare 4/07/96, n.156AA.GG./STC. istruzioni per l'applicazione delle "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>" di cui al D.M. 16/01/96.
9. Circolare 10/04/97, n.65AA.GG. istruzioni per l'applicazione delle "Norme tecniche per le costruzioni in zone sismiche" di cui al D.M. 16/01/96.
10. UNI 9502 - Procedimento analitico per valutare la resistenza al fuoco degli elementi costruttivi di conglomerato cementizio armato, normale e precompresso - edizione maggio 2001
11. Ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 marzo 2003 “Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica” e successive modificazioni e integrazioni.
12. UNI EN 1990:2006 13/04/2006 Eurocodice 0 - Criteri generali di progettazione strutturale.
13. UNI EN 1991-1-1:2004 01/08/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-1: Azioni in generale - Pesi per unità di volume, pesi propri e sovraccarichi per gli edifici.
14. UNI EN 1991-2:2005 01/03/2005 Eurocodice 1 - Azioni sulle strutture - Parte 2: Carichi da traffico sui ponti.
15. UNI EN 1991-1-3:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-3: Azioni in generale - Carichi da neve.
16. UNI EN 1991-1-4:2005 01/07/2005 Eurocodice 1 - Azioni sulle strutture - Parte 1-4: Azioni in generale - Azioni del vento.
17. UNI EN 1991-1-5:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-5: Azioni in generale - Azioni termiche.
18. UNI EN 1992-1-1:2005 24/11/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
19. UNI EN 1992-1-2:2005 01/04/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-2: Regole generali - Progettazione strutturale contro l'incendio.
20. UNI EN 1993-1-1:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-1: Regole generali e regole per gli edifici.
21. UNI EN 1993-1-8:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-8: Progettazione dei collegamenti.
22. UNI EN 1994-2:2006 12/01/2006 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 2: Regole generali e regole per i ponti.
23. UNI EN 1995-1-1:2005 01/02/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali – Regole comuni e regole per gli edifici.
24. UNI EN 1995-2:2005 01/01/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 2: Ponti.

25. UNI EN 1997-1:2005 01/02/2005 Eurocodice 7 - Progettazione geotecnica - Parte 1: Regole generali.
26. UNI EN 1998-1:2005 01/03/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 1: Regole generali, azioni sismiche e regole per gli edifici.
27. UNI EN 1998-5:2005 01/01/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici.

5 VALUTAZIONE DEI CARICHI AMBIENTALI

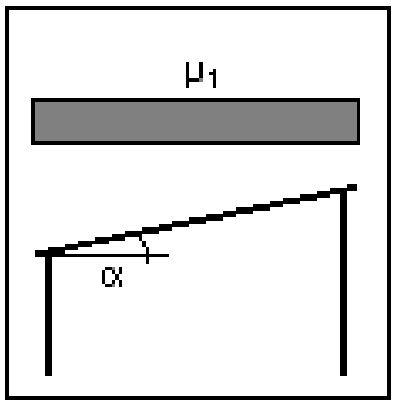
In questo paragrafo si procede alla valutazione dei carichi ambientali agenti ed in modo particolare il carico neve ed il carico vento, funzione della localizzazione e delle condizioni geometriche dell'edificio. Prima di passare alla determinazione occorre osservare come l'edificio viene edificato in una zona urbana ma priva, nel primo intorno, di altri edifici, con un'altezza non superiore a 12,00 m (altezza presa a riferimento) con una copertura pressoché piana con una inclinazione dell'ordine di 1-2° (pari a circa il 2% come da progetto). Si considera, in accordo con la classe d'uso III dell'edificio, un periodo di ritorno pari a 75 anni.

5.1 CARICO NEVE

Facendo riferimento a quanto previsto dalle NTC 2018 si trova che:

- Zona neve: I Mediterranea;
- c_e (coefficiente di esposizione al cento) = 1,00;
- valore caratteristico del carico al suolo pari a q_{sk} c_e = 1,50 kN/mq;
- copertura ad una semplice falda con un angolo di inclinazione pari a α = 3°;
- μ_1 = 0,80 ➔ q_1 = 1,20 kN/mq.

Si riporta lo schema di carico come previsto dalla norma:



In definitiva il carico caratteristico neve risulta pari a 1,20 kN/mq.

5.2 CARICO VENTO

Facendo riferimento a quanto previsto dalle NTC 2018 si trova che:

- Zona vento: 2;

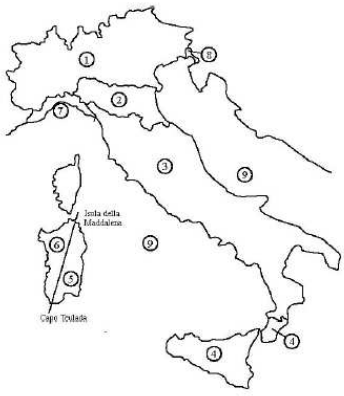


Fig. 3.3.1 - *Mappa delle zone in cui è suddiviso il territorio italiano*

- Dalla Tab. 3.3.I si trova che la velocità base della zona $v_{b,0}$ = 25,0 m/sec;
- Dalla Tab. 3.3.I si trova che l'altitudine base della zona a_0 = 750 m;
- Altitudine del sito pari a circa a_s = 54 m s.l.m.;
- Coefficiente di altitudine c_a = 1 per $a_s \leq a_0$;
- Velocità base di riferimento $v_b = v_{b,0}$ ca = 25,00 m/sec;
- Periodo di ritorno: in modo del tutto prudenziale si considera un periodo di ritorno coincidente con quello dell'azione sismica ovvero 75 anni essendo la costruzione in classe d'uso III con coefficiente d'uso pari ad 1,5;
- Coefficiente di ritorno $c_r = 0{,}75\sqrt{1 - 0{,}2\ ln\left[-ln\left(1 - 1/T_R\right)\right]} = 1{,}023$;
- Velocità riferita al periodo di ritorno di progetto: $v_r = v_b\ c_r$ = 25,59 m/sec;
- Classe di rugosità del terreno: B (Aree urbane (non di classe A), suburbane, industriali e boschive). Tale scelta è dettata dall'ampia zona aperta che contorna la zona interessata malgrado questa sia all'interno di una zona urbanizzata;
- Categoria di esposizione: tipo IV in quanto trattasi di zona d'entroterra posta ad una quota inferiore ai 500 m s.l.m. (la città di Bologna presenta una quota media di circa 50-51 m s.l.m.);
- Con tale classificazione i parametri di riferimento risultano:
  - k_r = 0,22;
  - z_0 = 0,30 m;
  - z_{min} = 8,0 m.
- la pressione cinetica di riferimento risulta pari a q_b = 0,41 kN/mq;
- si considera la quota massima (in eccesso dell'edificio) pari a 12 m da cui i vari coefficienti assumono i rispettivi valori:
  - c_p = 1,00;
  - c_d = 1,00;
  - c_e = 1,91;
  - c_t = 1,00;
- pressione del vento: $p_b = q_b\ \Pi_i\ c_i$ = 0,78 kN/mq.

Vista che la quota di riferimento z_{min} risulta pari a 8,0 m si riopera il calcolo considerando la quota di 8 m per determinare il valore da considerare nella parte bassa. Si trova che c_e = 1,67 con p_b = 0,67 kN/mq.

Con tali carichi, facendo le dovute valutazioni del caso, si procederà alla loro applicazione, in termini globali e/o locali, sulla struttura in esame.

6 AZIONE SISMICA

Come previsto dalle NTC 2018 e vista l'importanza della costruzione (o meglio costruzioni) ricadenti in classe d'uso III (al punto 2.4.2 viene riportato come le costruzioni il cui uso preveda affollamenti significativi, come ad esempio è riconducibile un edificio ad uso scolastico, ricadono in classe d'uso III), al fine della determinazione dello spettro di risposta, valutato in termini di accelerazione, sia stata eseguita una Risposta Sismica Locale (RSL) attraverso idonei strumenti. L'analisi è stata eseguita, facendo riferimento anche a quanto riportato nella relazione geologica – sismica a firma del Dott. Geol. Alberto Filelfi, in modo monodimensionale reperendo, al contempo, gli spettri relativi a tutti gli stati limite previsti dalla normativa in funzione della probabilità di superamento del rischio atteso. Nello specifico si ricorda la tabella 3.2.I delle già richiamate NTC 2018 che riporta:

Stati limite	$P_{V,R}$: Probabilità di superamento nel periodo di riferimento V_R	
Stati limite di esercizio	SLO	81%
	SLD	63%
Stati limite ultimi	SLV	10%
	SLC	5%

In funzione di tali percentuali di superamento è possibile calcolare il periodo di ritorno di riferimento con la formula [3.2.0] che riporta

$$T_R = -\frac{V_R}{\ln\left(1 - P_{V_R}\right)} = -C_U \frac{V_N}{\ln\left(1 - P_{V_R}\right)}.$$

Essendo l'edificio in classe d'uso III si ha che C_U = 1,5 da cui è immediato valutare i relativi periodi di ritorno partendo dalla vita nominale (V_N). Facendo riferimento alla Circolare 7 del 21 gennaio 2019 si trova che la vita nominale di progetto di un'opera è, convenzionalmente, definita come il numero di anni nel quale l'opera, purché ispezionata e manutenuta come previsto dal progetto, mantiene i livelli prestazionali e svolge le funzioni per la quale è stata progettata. Tale viene assunta pari a 50 anni in quanto, anche se trattasi di una scuola, si ritiene che l'opera rientri in quelle richieste prestazioni ordinarie.

Nella *Figura 10* si riporta il diagramma relativo in cui sono individuate le relative corrispondenze.

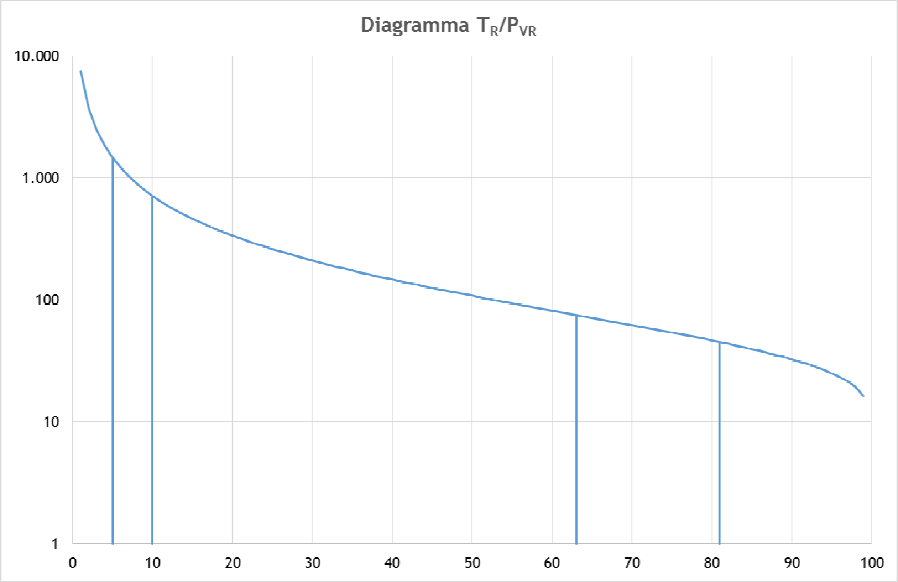


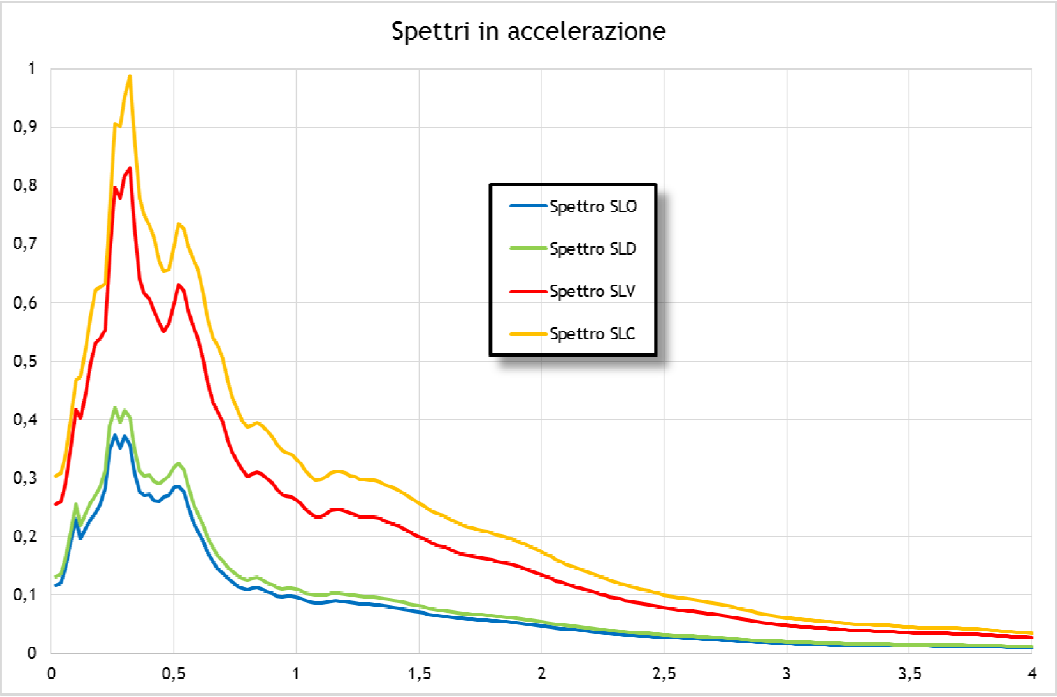
Figura 10: diagramma del periodo di ritorno in funzione della probabilità di superamento dell'evento atteso

Facendo riferimento a quanto riportato sopra si trova che:

Stati limite		$P_{V,R}$	T_R
Stati limite di esercizio	SLO	81%	45
	SLD	63%	75
Stati limite ultimi	SLV	10%	712
	SLC	5%	1.462

Con tali valori di riferimento si riportano sia gli spettri di normativa, in funzione dello stato limite da considerare, sia gli spettri derivati dalla risposta sismica locale, spettri di tipo elastico su cui si opereranno le relative riduzione in funzione del coefficiente di comportamento q che verrà ritenuto più corretto per la struttura da esaminare.

Si riporta in termine grafico la sovrapposizione degli spettri, in termini di accelerazione, dei quattro stati limite da esaminare, ovvero SLO (stato limite di operatività), SLD (stato limite di danno), SLV (stato limite di salvaguardia della vita) ed SLC (stato limite di collasso).



Risulta evidente come gli spettri risultano, per forma, molto simili tra loro in quanto tratti da un'analisi 1D e valgono per entrambe le direzioni in piano (x e y).

Per maggiore chiarezza si riportano anche le sovrapposizione dei singoli spettri, nella considerazione dei relativi stati limite da considerare, in funzione di quanto previsto dalla normativa in assenza di valutazione diretta con RSL. Prima di operare tale confronto si valutano i parametri sismici di sito attraverso un programma freeware riscontrabile in Internet denominato EdiLus MS ® della Acca software.

Rimandando a quanto riscontrabile nella *Figura 11*, si vogliono riportare, per maggiore chiarezza, i valori determinati. Le coordinate di sito risultano essere:

- Latitudine: 44°,507226;
- Longitudine: 11°,365167.

I parametri sismici vengono riportati in forma tabellare.

Stato limite	T_R	a_g/g	F_o	T^*_C
	[anni]	[#]	[#]	[sec]
Operatività	45	0,064	2,478	0,268
Danno	75	0,079	2,482	0,281
Salvaguardia della vita	712	0,191	2,399	0,312
Prevenzione collasso	1.462	0,241	2,433	0,318

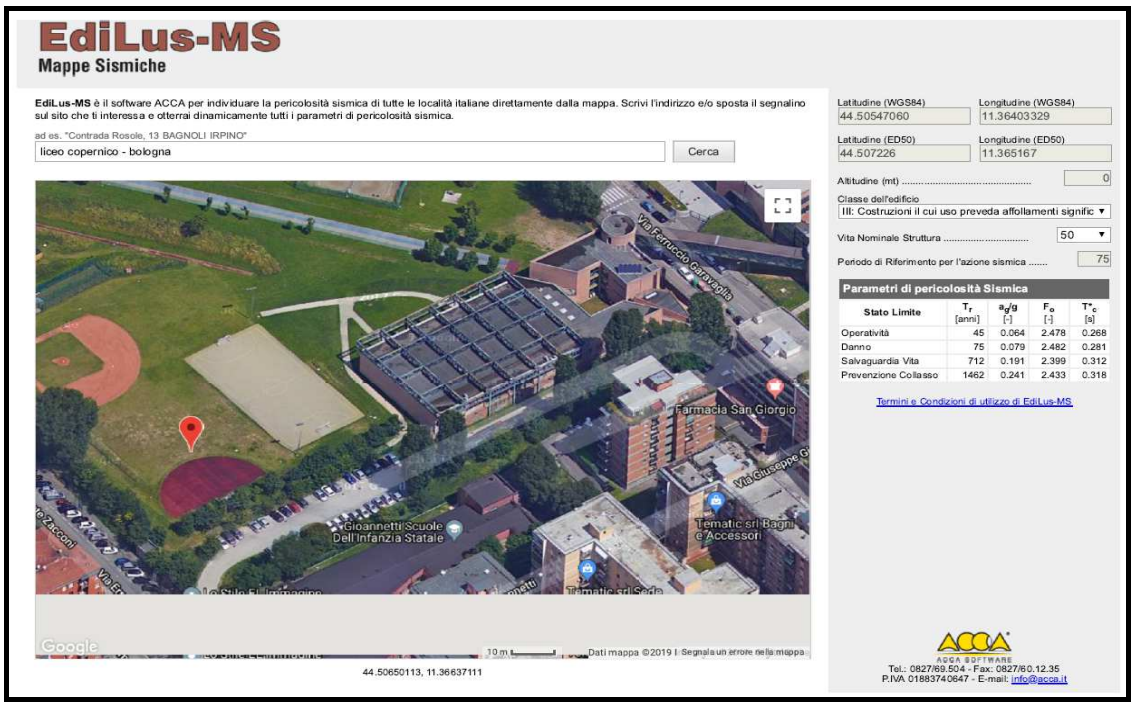


Figura 11: localizzazione intervento e parametri sismici

Con questi parametri si costruiscono i diagrammi degli spettri, funzione dello stato limite, e si confrontano con quelli derivati dalla RSL considerando che l'analisi geofisica ha riconosciuto il terreno appartenente alla classe C.

Nel seguito si riportano, per ogni stato limite esaminato, la sovrapposizione dei diagrammi degli spettri ottenuti con i riferimenti normativi (in rosso) e quelli ottenuti attraverso RSL (in blu)

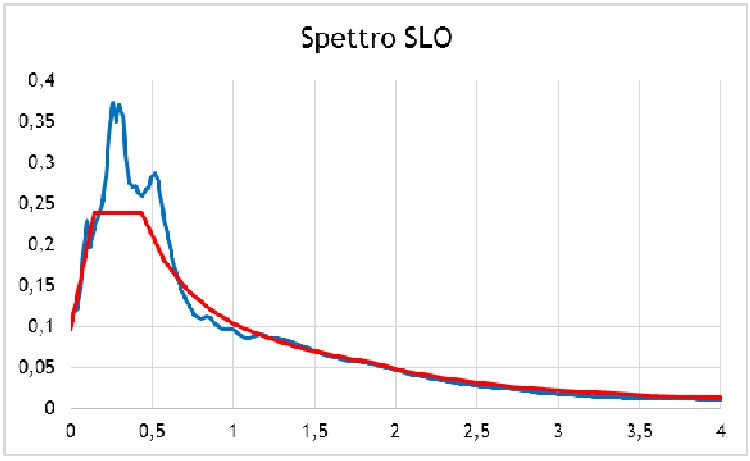


Figura 12: sovrapposizione spettri allo SLO

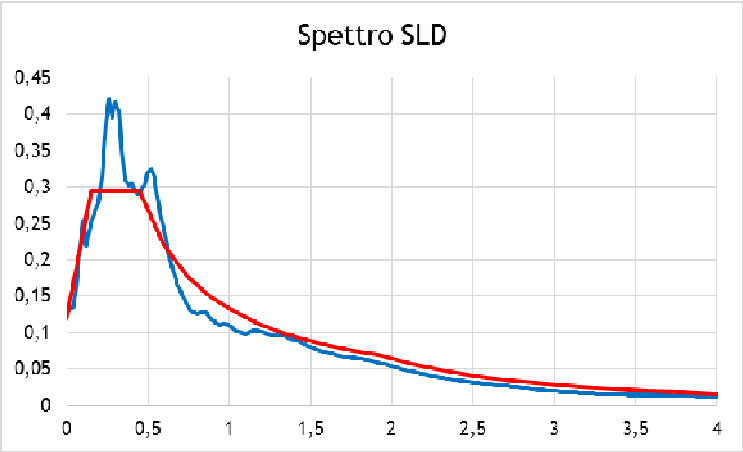


Figura 13: sovrapposizione spettri allo SLD

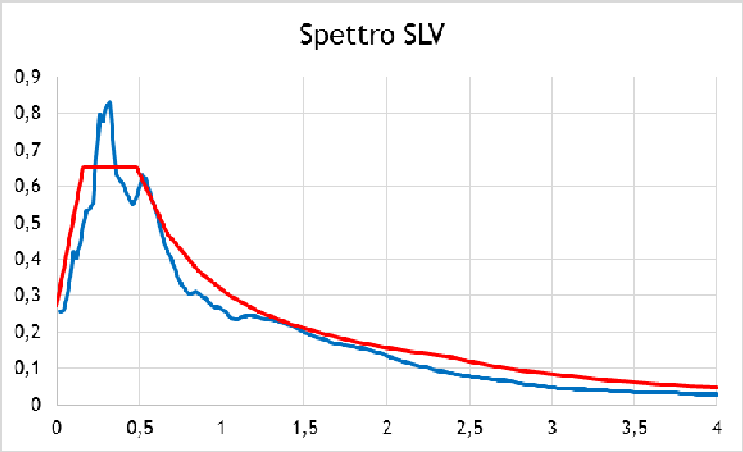


Figura 14: sovrapposizione spettri allo SLV

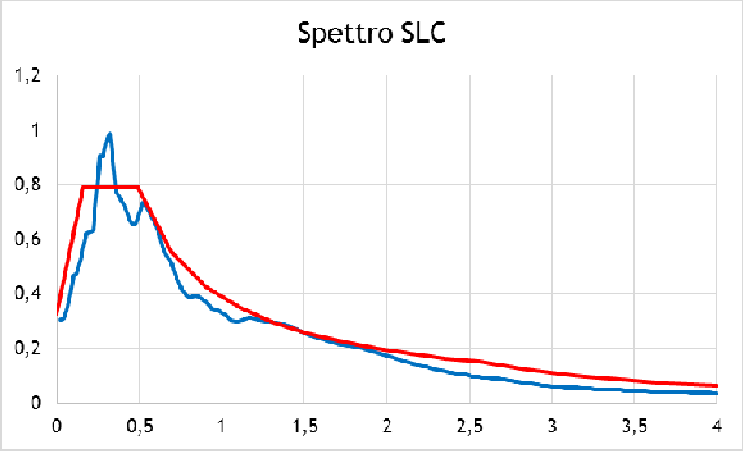


Figura 15: sovrapposizione spettri allo SLC

A prescindere dal fattore di scala, risulta immediato osservare come gli spettri ottenuti attraverso la RSL risultano essere molto simili a quelli di normativa per valori di periodi superiori ad 1-1,5 sec (periodi particolarmente alti) mentre si trovano picchi di amplificazione per periodi tra i 0,2 e 0,3 sec, periodi a cui si attestano la maggior parte degli edifici residenziali di 2-5 piani (si ricorda al proposito come la bibliografia riporta come stima del primo periodo la formula 0,1n dove n è il numero dei piani dell'edificio ed anche la formulazione empirica di 0,048 $H^{3/4}$ da cui, operando all'inverso, si trovano valori di H compresi tra i 6,5 m ed gli 11,5 m, valori molto prossimi all'altezza dell'edificio in questione).

7 ANALISI DEI CARICHI

Facendo riferimento alla stratigrafia riportata e fornita dal progetto architettonico, si riporta nel seguito l'analisi dei carichi relativa all'unità strutturale considerata.

7.1 SOLAIO DI INTERPIANO ZONA AULE

La stratigrafia, partendo dall'intradosso ove viene posizionato il solaio in legno che sarà lasciato a vista, risulta così costituita:

- Solaio strutturale ligneo realizzato con travi in legno lamellare poste in orizzontale dello spessore complessivo di 22 cm con peso specifico di 5,00 kN/mc: g_{k1} = 1,10 kN/mq;
- Lastra in fibrogesso tipo fermacell® dello spessore di 20 mm con peso specifico di 12,00 kN/mc, valore dedotto dalle schede tecniche: $g_{k2,1}$ = 0,02 x 12,00 = 0,24 kN/mq;
- Isolamento in fibra di legno dello spessore di 30 mm con peso specifico di 1,40 kN/mc, valore dedotto dalle schede tecniche: $g_{k2,2}$ = 0,03 x 1,40 = 0,04 kN/mq;
- Isolamento acustico realizzato con Phonestar Tri 15 ® dello spessore di 15 mm con peso, ricavato dalle schede tecniche, pari a $g_{k2,3}$ = 0,18 kN/mq;
- Lastra in fibrocemento tipo Acquapanel ® Floor della Knauf dello spessore di 22 mm come sottofondo a secco della pavimentazione dal peso, da scheda tecnica, pari $g_{k2,4}$ = 0,37 kN/mq;
- Pavimentazione in linoleum dello spessore di 2-4 mm, in funzione della fornitura, avente un peso, desunto da scheda tecnica per lo spessore di 4 mm, pari a $g_{k2,5}$ = 0,05 kN/mq;
- Impiantistica diffusa a livello di intradosso in alcune zone $g_{k2,6}$ = 0,10 kN/mq;
- Sovraccarico variabile q_k = 3,00 kN/mq.

In definitiva il solaio delle zona in cui risultano presenti le aule presenta la seguente analisi dei carichi:

- g_{k1} = 1,10 kN/mq;
- g_{k2} = 0,24 + 0,04 + 0,18 + 0,37 + 0,05 + 0,10 = 0,98 kN/mq ≈ 1,00 kN/mq;
- q_k = 3,00 kN/mq.

Nelle zone di sporto, posizionate al piano primo, risulta presente, nella zona intradossale, una coibentazione in lana di roccia dello spessore di 16 cm finita con rasatura dello spessore di circa 5 mm. Tale situazione apporta un'ulteriore voce di carico pari a:

- coibentazione termica in lana di roccia dal peso specifico, dedotto da scheda tecnica, di 0,90 kN/mc per uno spessore di 16 cm: $g_{k2,7}$ = 0,16 x 0,90 = 0,14 kN/mq;
- rasatura della superficie con malta adesiva per uno spessore di 4 mm minimo ad elevata permeabilità al vapore posta in opera con adeguata rete d'armatura che presenta peso, da scheda tecnica, pari a circa 1,5 kg/mq per mm di spessore: $g_{k2,8}$ = 4 x 0,015 = 0,06 kN/mq.

Nelle zone di sbalzo, fatto salvo carichi concentrati che verranno valutati in modo puntuale, il carico permanente portato risulta modificato da quanto sopra riportato. L'analisi riporta:

- g_{k2} = 0,24 + 0,04 + 0,18 + 0,37 + 0,05 + 0,14 + 0,06 + 0,10 = 1,18 kN/mq ≈ 1,20 kN/mq.

Si può osservare come la variazione del carico risulta modesta.

7.2 SOLAIO ZONA SERVIZI

Il solaio delle zone adibite a servizi igienici viene realizzato sempre in legno con travi in lamellare poste sdraiate. L'analisi dei carichi, indipendentemente dalla zona considerata (zona aule, servizi,…), risulta sempre la seguente e precisamente quanto riportato nel seguito:

- Solaio strutturale ligneo realizzato con travi in legno lamellare poste in orizzontale dello spessore complessivo di 22 cm con peso specifico di 5,00 kN/mc: g_{k1} = 1,10 kN/mq;
- Lastra in fibrogesso tipo fermacell® dello spessore di 20 mm con peso specifico di 12,00 kN/mc, valore dedotto dalle schede tecniche: $g_{k2,1}$ = 0,02 x 12,00 = 0,24 kN/mq;
- Serpentina riscaldante tipo Tenefloor della ATH.Italia dal peso pressochè trascurabile;
- Massetto per la posa di pavimentazione in gres dello spessore di 3 cm con peso specifico di 22 KN/mc: $g_{k2,1}$ = 0,03 x 22 = 0,70 kN/mq;
- Pavimentazione in gres porcellanato: $g_{k2,2}$ = 0,40 kN/mq;
- Carico per passaggio impiantistica in controsoffitto: $g_{k2,3}$ ≈ 1,00 kN/mq;
- Sovraccarico variabile q_k = 3,00 kN/mq.

In definitiva il solaio delle zone adibite a servizi presenta la seguente analisi dei carichi:

- g_{k1} = 1,10 kN/mq;
- g_{k2} = 0,24 + 0,70 + 0,40 + 1,00 = 2,34 kN/mq ≈ 2,35 kN/mq;
- q_k = 3,00 kN/mq.

7.3 SOLAIO COPERTURA

Il solaio di coperto viene realizzato sempre in legno con travi in lamellare poste sdraiate. L'analisi dei carichi, indipendentemente dalla zona considerata (zona aule, servizi,…), risulta sempre la seguente e precisamente quanto riportato nel seguito:

- Solaio strutturale ligneo realizzato con travi in legno lamellare poste in orizzontale dello spessore complessivo di 18 cm con peso specifico di 5,00 kN/mc: g_{k1} = 0,90 kN/mq;
- Freno a vapore tipo USB Micro Strong della Riwega dello spessore di circa 1 mm dal peso, da scheda tecnica, pari a circa 0,002 kN/mq, pressoché trascurabile;
- Pannello coibente in lana di roccia a doppia densità tipo Durock Energy della Ruckwool di spessore 20 cm con peso specifico, da scheda tecnica, pari 1,50 kN/mc: $g_{k2,1}$ = 0,2 x 1,50 = 0,30 kN/mq;
- Membrana traspirante tipo USB Protector GOLD 330 della Riwega dello spessore di circa 0,85 mm dal peso, da scheda tecnica, pari a circa 0,003 kN/mq, pressoché trascurabile;
- Copertura in alluminio 5754 dello spessore di 1 mm tipo Riverclak® 500 dal peso, da scheda tecnica, pari a $g_{k2,2}$ = 0,04 kN/mq;
- Pannelli fotovoltaici per produzione energia in posto aventi peso medio da indagine su prodotti commerciali pari a circa $g_{k2,3}$ = 0,15 kN/mq;
- Sovraccarico variabile neve q_k = 1,20 kN/mq.

In definitiva il solaio di copertura presenta la seguente analisi dei carichi:

- g_{k1} = 0,90 kN/mq;
- g_{k2} = 0,30 + 0,04 + 0,15 = 0,49 kN/mq ≈ 0,50 kN/mq;
- q_k = 1,20 kN/mq.

8 RELAZIONE MATERIALI

8.1 ELENCO DEI MATERIALI IMPIEGATI E LORO MODALITA' DI MESSA IN OPERA

Di seguito vengono riportati i materiali da impiegare nella realizzazione dell'edificio con alcune caratteristiche e modalità per la loro messa in opera.

CONGLOMERATO CEMENTIZIO con le seguenti caratteristiche:

CONGLOMERATO CEMENTIZIO PER FONDAZIONE

- Definizione: **C 25/30**
- Resistenza a compressione:
  - per provini cubici R_{ck} = 30 N/mm^2
  - per provini cilindrici f_{ck} = 25 N/mm^2
- Resistenza media a compressione: f_{cm} = 33 N/mm^2
- Resistenza a trazione:
  - media a trazione assiale f_{ctm} = 2,6 N/mm^2
  - media a trazione per flessione f_{cfm} = 3,1 N/mm^2
  - caratteristica per frattile 0,05 f_{ctk} = 1,8 N/mm^2
- Resistenza tangenziale di aderenza: f_{bk} = 4,05 N/mm^2
- Modulo di Elasticità: E_{cm} = 31.447 N/mm^2
- Dimensione massima dell'aggregato: 22 mm
- Classe di esposizione: XC2
- Classe di consistenza: S3
- Contenuto massimo di cloruri: 0,4%
- Peso specifico del calcestruzzo: γ_{cls} = 24,0 kN/m^3
- Peso specifico del calcestruzzo armato: γ_{ca} = 25,0 kN/m^3
- Coeff. Poisson: ν = 0,2
- Dilatazione termica: α = 1,00E-005 °C^{-1}

CONGLOMERATO CEMENTIZIO PER ELEVAZIONE

- Definizione: **C 25/30**
- Resistenza a compressione:
  - per provini cubici R_{ck} = 30 N/mm^2
  - per provini cilindrici f_{ck} = 25 N/mm^2
- Resistenza media a compressione: f_{cm} = 33 N/mm^2
- Resistenza a trazione:
  - media a trazione assiale f_{ctm} = 2,6 N/mm^2
  - media a trazione per flessione f_{cfm} = 3,1 N/mm^2
  - caratteristica per frattile 0,05 f_{ctk} = 1,8 N/mm^2
- Resistenza tangenziale di aderenza: f_{bk} = 4,05 N/mm^2

- Modulo di Elasticità: E_{cm} = 31.447 N/mm^2
- Dimensione massima dell'aggregato: 16 mm
- Classe di esposizione: XC1
- Classe di consistenza: S4
- Contenuto massimo di cloruri: 0,4%
- Peso specifico del calcestruzzo: γ_{cls} = 24,0 kN/m^3
- Peso specifico del calcestruzzo armato: γ_{ca} = 25,0 kN/m^3
- Coeff. Poisson: ν = 0,2
- Dilatazione termica: α = 1,00E-005 °C^{-1}

Per quanto riguarda il calcestruzzo si ricorda che:

- Il materiale dovrà giungere in cantiere provvisto delle certificazioni previste dalla Normativa vigente e dai Documenti di Trasporto;
- Il calcestruzzo preconfezionato dovrà essere fornito da impianto dotato delle certificazioni in materia;
- Dovranno essere prelevati i cubetti nella misura prevista dalla Normativa vigente e schiacciati tra il 28° ed il 45° giorno;
- In caso di temperatura inferiore ai 4°C si dovranno sospendere i getti ovvero eseguirli con aggiunta di acceleranti previa autorizzazione della D.L.

Per quanto riguarda i singoli elementi della miscela del conglomerato cementizio si ha:

CEMENTO: sono utilizzati cementi Portland tipo 32,5 o 42,5 conforme alla Norma UNI-EN 197-1.

SABBIA e GHIAIA: aggregati provvisti di marcatura CE conformi alle Norme UNI-EN 12620 e 8520-2. La composizione granulometrica della miscela è determinata dal fuso di Fuller, privilegiando le caratteristiche di resistenza del calcestruzzo.

ACQUA: l'acqua d'impasto è conforme alla Norma UNI-EN 1008

ADDITIVI: fluidificanti e superfluidificanti in percentuale inferiore al 1% in peso del cemento secondo le disposizioni della Ditta produttrice ed in accordo con la Norma UNI-EN 934-2. Nel confezionamento del calcestruzzo si fa riferimento alla Norma UNI 9858.

DURABILITA': Nei riguardi della durabilità della struttura si fa riferimento a quanto previsto dal Prospetto 1 della Norma UNI EN 206-1 e relative istruzioni complementari UNI 11104 (marzo 2004).

ACCIAIO PER CEMENTO ARMATO AD ADERENZA MIGLIORATA con le seguenti caratteristiche:

BARRE E RETI ELETTROSALDATE

- Definizione: **B450 C**
- Tensione caratteristica di rottura: f_{tk} = 540 N/mm^2
- Tensione caratteristica di snervamento: **f_{yk} = 450 N/mm^2**
- Resistenza tangenziale di aderenza: f_{bk} = 5,76 N/mm^2
- Densità: ρ = 78,50 kN/mm^3
- Modulo di Elasticità: E_{acc} = 206.000 N/mm^2

L'acciaio sarà accettato dalla Direzione dei Lavori solo se munito di certificato di origine dello stabilimento di Trasformazione; le armature dovranno essere accompagnate da tre spezzoni di 1 ml cadauno per ciascuno dei diametri utilizzati. Le barre non dovranno presentare eccessive corrosioni, ossidazioni o difetti superficiali, né dovranno essere ricoperte da sostanze che possono ridurre l'aderenza al conglomerato (grassi, oli, terra, fango,…), e pertanto i fasci dei vari diametri dovranno essere scaricati ed accatastati in un luogo asciutto. Inoltre, prima della messa in opera, che avverrà tramite il posizionamento di distanziatori di materiale adeguato, si dovrà provvedere alla loro pulizia. Le caratteristiche meccaniche minime dovranno essere:

$f_{y,nom} \geq 450{,}00$ MPa e $f_{t,nom} \geq 540{,}00$ MPa ed inoltre:

$f_{yk} \geq f_{y,nom}$ con un frattile del 5%;

$f_{tk} \geq f_{t,nom}$ con un frattile del 5%;

$(f_t/f_y)_k \geq 1{,}15$ ed $\leq 1{,}35$ con un frattile del 10%;

$f_{yk}/f_{y,nom} \leq 1{,}25$ con un frattile del 10%;

allungamento $(A_{gt})_k \geq 7{,}5\%$ con un frattile del 10%.

ACCIAIO PER PROFILI: Classe S275

Snervamento: $f_{y,k} \geq 275$ N/mm^2

Rottura: $f_{t,k} \geq 430$ N/mm^2

BULLONI PER COLLEGAMENTI: Classe 8.8 o come indicato negli elaborati grafici

PANNELLI XLAM

Pannelli in legno tipo C24 secondo UNI EN 338/2016

Pannelli verticali s = 160 mm a 5 strati: 40+20+40+20+40 mm

f_{Rk} = 1,2 N/mmq (Resistenza a taglio per rotolamento)

(Le caratteristiche geometriche e meccaniche utilizzate per il dimensionamento strutturale sono state desunte da documento ETA di un produttore specifico esistente sul mercato).

LEGNO LAMELLARE GL32h

Massa volumica:		ρ_k =	550 kg/m^3
-	Flessione		$f_{m,g,k}$ = 32,0 N/mmq;
-	Trazione		$f_{t,0,g,k}$ = 25,6 N/mmq;
			$f_{t,90,g,k}$ = 0,5 N/mmq;
-	Compressione		$f_{c,0,g,k}$ = 32,0 N/mmq;
			$f_{c,90,g,k}$ = 2,5 N/mmq;
-	Taglio		$f_{v,g,k}$ = 3,5 N/mmq;
-	Modulo di elasticità		$E_{0,g,mean}$ = 14.200,0 N/mmq;
			$E_{0,g,05}$ = 11.800,0 N/mmq;
			$E_{90,g,mean}$ = 300,0 N/mmq;
			$E_{90,g,05}$ = 250,0 N/mmq;
-	Modulo a taglio		$G_{g,mean}$ = 650,0 N/mmq;

- Densità

$G_{g,05}$ = 540,0 N/mmq;
$\rho_{g,k}$ = 440,0 kg/mc;
$\rho_{g,mean}$ = 490,0 kg/mc.

9 ILLUSTRAZIONE DEI CRITERI DI PROGETTAZIONE E DI MODELLAZIONE

9.1 US 02-L

Per quanto riguarda la sotto unità in legno US 02-L, la tipologia strutturale è quella di edificio in legno e il sistema costruttivo dell'edificio in oggetto è un sistema a pannelli massicci in legno X-Lam.
Gli elementi strutturali verticali sono realizzati da pannelli X-lam di legno massiccio a strati incrociati ed incollati, giuntati verticalmente tra loro. I pannelli parete sono composti da 5 strati di tavole sovrapposti a fibratura incrociata ed incollati con collanti poliuretanici privi di formaldeide, di spessore totale pari a 160 mm e stratigrafia delle tavole pari a 40-20-40-20-40 mm. L'incrocio delle fibre dei vari strati permette di ridurre le deformazioni meccaniche del materiale legno dovute ai classici fattori (umidità, temperatura etc.) di un ordine di grandezza rispetto alle travi lamellari utilizzate per le coperture: si ottiene così un pannello in legno estremamente stabile ed indeformabile.
Il comportamento dell'edificio in legno realizzato con pannelli X-LAM è quello di una struttura scatolare con diaframmi di piano e pareti collegati mediante elementi meccanici. Le pareti hanno il compito di assorbire le sollecitazioni verticali e orizzontali (carichi verticali, sisma e vento). Il collegamento fra la struttura in legno e le fondazioni in c.a. viene assicurato mediante opportune piastre e barre filettate in acciaio o tasselli a pressione.

L'analisi impiegata per la struttura in questione risulta essere il metodo di riferimento, vale a dire l'analisi dinamica lineare o analisi modale con spettro di risposta, effettuata mediante un codice di calcolo di comprovata affidabilità (PRO SAP della 2SI S.r.l.).
Gli stati limite analizzati nella progettazione sono per gli stati limite ultimi (SLU), lo stato limite di salvaguardia della vita (SLV) e lo stato limite di collasso (SLC), mentre per gli stati limite di esercizio (SLE), lo stato limite di operatività (SLO) e lo stato limite di danno (SLD).
La Normativa impone di utilizzare lo spettro elastico $S_{e(T)}$ per la verifica sismica agli stati limite d'esercizio, mentre per la verifica agli stati limite ultimi permette di considerare il comportamento plastico delle strutture, riducendo il valore dell'azione sismica di progetto allo spettro di risposta plastico $S_{d(T)}$ mediante il fattore di comportamento q.
Il fattore di comportamento è utilizzato in fase di progettazione per ridurre le forze ottenute da un'analisi elastica lineare al fine di tenere conto della risposta non-lineare di una struttura; è associato al materiale, al sistema strutturale ed al procedimento di progettazione (*rif. Par. 7.3.1*).
Il coefficiente di comportamento q viene definito come:
$q = q_0 \times K_R$
dove K_R = 1 (edificio regolare in altezza) oppure 0,8 (edificio irregolare in altezza), mentre q_0 viene definito all'interno della Tabella 7.3.II e del Paragrafo 7.7.3. del D.M. 17.01.2018 (per costruzioni di legno).

Considerando una classe di duttilità bassa CD "B", e la non regolarità in altezza per l'edificio in esame, si desume dalla tabella sopra citata, in funzione della tipologia strutturale quale "Costruzioni di legno - pannelli di tavole incollate a strati incrociati, collegati mediante chiodi, viti, bulloni", un valore base del fattore di comportamento q_0 pari a 2,5. Da questo si ricava il valore del fattore di comportamento utilizzato nelle analisi che è pari a: q = 2,5 x 0,8 = 2

L'unità strutturale in esame risulta inserita nel complesso del Polo dinamico affiancata ad altre unità strutturali dalle quali è isolata mediante giunti strutturali di spessore 16 cm. Si rimanda all'elaborato "ST-R 01 Relazione generale" per la verifica delle dimensioni dei giunti tra i vari blocchi.

9.2 US 02-S

Per quanto riguarda la sotto unità in acciaio US 02-S, la tipologia strutturale è quella di edificio in acciaio.
I due vani scale sono realizzati da telai costituiti da montanti realizzati con profili metallici HEB 200 e travi realizzate con profili metallici HEB 200 e disposte in luce tra i montanti.
I cosciali delle rampe delle scale sono realizzati con piatti metallici di dimensioni 15x220 mm. I Gradini sono in lamiera piegata di acciaio con sezione a "z" di spessore 4 mm e dimensioni in pianta pari a 30x120 mm.
I Pianerottoli presentano struttura in grigliato anti tacco 15x76 mm con barre portanti 50x3 mm.
Il triplo volume presenta anch'esso telai costituiti da montanti realizzati con profili metallici HEB 200 e travi realizzate con profili metallici HEB 200 e disposte in luce tra i montanti. I pilastri dell'angolo sono invece profili tubolari di sezione 200 x 200 x 12,5 mm. Queste strutture si estendono in altezza per tutto lo sviluppo altimetrico del volume, non avendo solai di piano. Nei due angoli S-E e N-O sono presenti controventi realizzati con profili UPN 200. Circa a metà di uno dei due lati interni vi è la struttura dell'ascensore sempre in acciaio.

L'analisi impiegata per la struttura in questione risulta essere il metodo di riferimento, vale a dire l'analisi dinamica lineare o analisi modale con spettro di risposta, effettuata mediante un codice di calcolo di comprovata affidabilità (PRO SAP della 2SI S.r.l.).
Gli stati limite analizzati nella progettazione sono per gli stati limite ultimi (SLU), lo stato limite di salvaguardia della vita (SLV) e lo stato limite di collasso (SLC), mentre per gli stati limite di esercizio (SLE), lo stato limite di operatività (SLO) e lo stato limite di danno (SLD).
La Normativa impone di utilizzare lo spettro elastico Se(T) per la verifica sismica agli stati limite d'esercizio, mentre per la verifica agli stati limite ultimi permette di considerare il comportamento plastico delle strutture, riducendo il valore dell'azione sismica di progetto allo spettro di risposta plastico Sd(T) mediante il coefficiente di struttura q.
Il coefficiente di struttura è utilizzato in fase di progettazione per ridurre le forze ottenute da un'analisi elastica lineare al fine di tenere conto della risposta non-lineare di una struttura; è associato al materiale, al sistema strutturale ed al procedimento di progettazione.
Nel caso in questione, trattandosi di strutture in acciaio che presentano scarsa duttilità (ovvero capacità di dissipare in caso di azione sismica) si adotta il valore minimo del coefficiente di struttura q pari a 1,5.

L'unità strutturale in esame risulta inserita nel complesso del Polo dinamico affiancata ad altre unità strutturali dalle quali è isolata mediante giunti strutturali di spessore 16 cm. Si rimanda all'elaborato "ST-R 01 Relazione generale" per la verifica delle dimensioni dei giunti tra i vari blocchi.

10 COMBINAZIONI DELLE AZIONI

Le combinazioni sono effettuate secondo il metodo semiprobabilistico agli stati limite considerando le azioni definite dalle normative citate.

Ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni:

Combinazione fondamentale SLU

$\gamma G1 \cdot G1 + \gamma G2 \cdot G2 + \gamma P \cdot P + \gamma Q1 \cdot Qk1 + \gamma Q2 \cdot \psi 02 \cdot Qk2 + \gamma Q3 \cdot \psi 03 \cdot Qk3 + \ldots$

Combinazione caratteristica (rara) SLE

$G1 + G2 + P + Qk1 + \psi 02 \cdot Qk2 + \psi 03 \cdot Qk3 + \ldots$

Combinazione frequente SLE

$G1 + G2 + P + \psi 11 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \ldots$

Combinazione quasi permanente SLE

$G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \ldots$

Combinazione sismica, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E

$E + G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \ldots$

Combinazione eccezionale, impiegata per gli stati limite connessi alle azioni eccezionali

$G1 + G2 + Ad + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \ldots$

Dove i valori dei coefficienti Ψ per le azioni di progetto considerate sono i seguenti:

Categoria/Azione	Ψ_{0i}	Ψ_{1i}	Ψ_{2i}
Categoria C - Ambienti suscettibili di affollamento	0,7	0,7	0,6
Vento	0,6	0,2	0,0
Neve (a quota < 1000 m s.l.m.)	0,5	0,2	0,0

Nelle verifiche possono essere adottati in alternativa due diversi approcci progettuali:

- per l'approccio 1 si considerano due diverse combinazioni di gruppi di coefficienti di sicurezza parziali per le azioni, per i materiali e per la resistenza globale (combinazione 1 con coefficienti A1 e combinazione 2 con coefficienti A2),
- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2018 Tabella 2.6.I

		Coefficiente γf	***EQU***	***A1***	***A2***
Carichi permanenti	*Favorevoli* *Sfavorevoli*	*$\gamma G1$*	*0,9* *1,1*	*1,0* *1,3*	*1,0* *1,0*
Carichi permanenti non strutturali (Non compiutamente definiti)	*Favorevoli* *Sfavorevoli*	*$\gamma G2$*	*0,8* *1,5*	*0,8* *1,5*	*0,8* *1,3*
Carichi variabili	*Favorevoli* *Sfavorevoli*	*γQi*	*0,0* *1,5*	*0,0* *1,5*	*0,0* *1,3*

Le verifiche per le strutture di legno vengono effettuate con le seguenti ipotesi:

- classe di servizio 2;
- Il coefficiente di sicurezza sul materiale legno per le verifiche agli SLU è preso pari a γ_m=1,45 per gli elementi di legno lamellare e per i pannelli X-lam e γ_m=1,50 per le unioni, come indicato nella Tabella 4.4.III del D.M.18.
- Il coefficiente correttivo Kmod è assunto pari a:

  K_{mod} = 0,60 per classe di durata del carico Permanente

  K_{mod} = 0,70 per classe di durata del carico Lunga

  K_{mod} = 0,80 per classe di durata del carico Media

  K_{mod} = 0,90 per classe di durata del carico Breve

  K_{mod} = 1,00 per classe di durata del carico Istantanea

  Se una combinazione di carico comprende azioni appartenenti a differenti classi di durata del carico si dovrà scegliere un valore di kmod che corrisponde all'azione di minor durata.
- K_{def} = 0,80

Di seguito vengono riportate le tabelle riassuntive dei casi di carico, coefficienti di carico e combinazioni adottate per il dimensionamento della struttura per l'edificio.

10.1 US 02-L

	Sigla	*Tipo*	*Descrizione*
1	**Ggk**	A	caso di carico comprensivo del peso proprio struttura
2	**Gk**	NA	caso di carico con azioni permanenti
3	**Qk**	NA	caso di carico con azioni variabili
4	**Gsk**	A	caso di carico comprensivo dei carichi permanenti sui solai e sulle coperture
5	**Qsk**	A	caso di carico comprensivo dei carichi variabili sui solai
6	**Qnk**	A	caso di carico comprensivo dei carichi di neve sulle coperture
7	**Qtk**	SA	caso di carico comprensivo di una variazione termica agente sulla struttura
8	**Qvk**	NA	caso di carico comprensivo di azioni da vento sulla struttura
9	**Esk**	SA	caso di carico sismico con analisi statica equivalente
10	**Edk**	SA	caso di carico sismico con analisi dinamica
11	**Etk**	NA	caso di carico comprensivo di azioni derivanti dall' incremento di spinta delle terre in condizione sismica
12	**Pk**	NA	caso di carico comprensivo di azioni derivanti da coazioni, cedimenti e precompressioni

CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2sk (permanente solai-coperture n.c.d.)	
4	Qsk	CDC=Qsk (variabile solai)	
5	Qnk	CDC=Qnk (carico da neve)	
6	Qvk	CDC=Qvk (carico da vento) dir X +	D3 :da 209 a 236 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 251 a 299 Azione : QVK PAN ++ vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 306 a 317 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 322 a 329 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 334 a 341 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 525 a 526 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 1098 a 1109 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 1110 a 1114 Azione : QVK PAN ++ vento*0.4 (pv=1,42)-P3:p= 1.420e-02
			D3 :da 1129 a 1137 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03

CDC	Tipo	Sigla Id	Note
			D3 :da 1144 a 1149 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 1154 a 1159 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 1164 a 1198 Azione : QVK PAN ++ vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 1213 a 1233 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 1775 a 1802 Azione : QVK PAN ++ vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 : 2033 Azione : QVK PAN ++ vento*0.4 (pv=1,42)-P3:p= 1.420e-02
			D3 : 2034 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 : 2213 Azione : QVK PAN ++ vento*0.4 (pv=1,42)-P3:p= 1.420e-02
			D3 : 2216 Azione : QVK PAN ++ vento*0.4 (pv=1,42)-P3:p= 1.420e-02
			D3 :da 2231 a 2238 Azione : QVK PAN ++ vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 2241 a 2246 Azione : QVK PAN ++ vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 2344 a 2345 Azione : QVK PAN ++ vento*0.4 (pv=1,42)-P3:p= 1.420e-02
			D3 :da 2352 a 2354 Azione : QVK PAN ++ vento*0.4 (pv=1,42)-P3:p= 1.420e-02
			D3 : 2355 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 2472 a 2478 Azione : QVK PAN ++ vento*0.4 (pv=1,42)-P3:p= 1.420e-02
			D3 : 2535 Azione : QVK PAN ++ vento*0.4 (pv=1,42)-P3:p= 1.420e-02
			D3 :da 2536 a 2549 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 2552 a 2574 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 2581 a 2586 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 2591 a 2596 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 2601 a 2635 Azione : QVK PAN ++ vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 2650 a 2670 Azione : QVK PAN ++ vento*0.4 (pv=0,57)-P3:p= 5.700e-03
7	Qvk	CDC=Qvk (carico da vento) dir X -	D3 :da 209 a 236 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 251 a 299 Azione : QVK PAN -- vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 306 a 317 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 322 a 329 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 334 a 341 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 525 a 526 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 1098 a 1109 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 1110 a 1114 Azione : QVK PAN -- vento*0.8 (pv=2,84)-P3:p= 2.840e-02
			D3 :da 1129 a 1137 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 1144 a 1149 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 1154 a 1159 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 1164 a 1198 Azione : QVK PAN -- vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 1213 a 1233 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 1775 a 1802 Azione : QVK PAN -- vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 : 2033 Azione : QVK PAN -- vento*0.8 (pv=2,84)-P3:p= 2.840e-02
			D3 : 2034 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 : 2213 Azione : QVK PAN -- vento*0.8 (pv=2,84)-P3:p= 2.840e-02
			D3 : 2216 Azione : QVK PAN -- vento*0.8 (pv=2,84)-P3:p= 2.840e-02
			D3 :da 2231 a 2238 Azione : QVK PAN -- vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 2241 a 2246 Azione : QVK PAN -- vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 2344 a 2345 Azione : QVK PAN -- vento*0.8 (pv=2,84)-P3:p= 2.840e-

CDC	Tipo	Sigla Id	Note
			02
			D3 :da 2352 a 2354 Azione : QVK PAN -- vento*0.8 (pv=2,84)-P3:p= 2.840e-02
			D3 : 2355 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 2472 a 2478 Azione : QVK PAN -- vento*0.8 (pv=2,84)-P3:p= 2.840e-02
			D3 : 2535 Azione : QVK PAN -- vento*0.8 (pv=2,84)-P3:p= 2.840e-02
			D3 :da 2536 a 2549 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 2552 a 2574 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 2581 a 2586 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 2591 a 2596 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
			D3 :da 2601 a 2635 Azione : QVK PAN -- vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 2650 a 2670 Azione : QVK PAN -- vento*0.8 (pv=1.14)-P3:p= 1.140e-02
8	Qvk	CDC=Qvk (carico da vento) dir Y +	D3 :da 1 a 48 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 1 a 48 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 49 a 62 Azione : QVK PAN ++ vento*0.8 (pv=0,70)-P3:p= 7.000e-03
			D3 :da 63 a 82 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 63 a 82 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 83 a 117 Azione : QVK PAN ++ vento*0.8 (pv=0,70)-P3:p= 7.000e-03
			D3 :da 118 a 166 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 181 a 208 Azione : QVK PAN ++ vento*0.8 (pv=1,14)-P3:p= 1.140e-02
			D3 :da 300 a 305 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 318 a 321 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 330 a 333 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 1138 a 1143 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 1150 a 1153 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 1160 a 1163 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 1234 a 1254 Azione : QVK PAN ++ vento*0.8 (pv=1,14)-P3:p= 1.140e-02
			D3 :da 1304 a 1345 Azione : QVK PAN ++ vento*0.8 (pv=0,70)-P3:p= 7.000e-03
			D3 :da 1346 a 1413 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 1346 a 1413 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 1768 a 1774 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 1859 a 1886 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 1859 a 1886 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 1921 a 1927 Azione : QVK PAN ++ vento*0.8 (pv=0,70)-P3:p= 7.000e-03
			D3 :da 1928 a 1955 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 1928 a 1955 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 1956 a 1962 Azione : QVK PAN ++ vento*0.8 (pv=0,70)-P3:p= 7.000e-03
			D3 :da 2042 a 2044 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2042 a 2044 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2047 a 2053 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2047 a 2053 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03

CDC	Tipo	Sigla Id	Note
			D3 :da 2057 a 2060 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2057 a 2060 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2061 a 2062 Azione : QVK PAN ++ vento*0.8 (pv=0,70)-P3:p= 7.000e-03
			D3 :da 2069 a 2070 Azione : QVK PAN ++ vento*0.8 (pv=0,70)-P3:p= 7.000e-03
			D3 :da 2073 a 2074 Azione : QVK PAN ++ vento*0.8 (pv=0,70)-P3:p= 7.000e-03
			D3 : 2079 Azione : QVK PAN ++ vento*0.8 (pv=0,70)-P3:p= 7.000e-03
			D3 : 2089 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 : 2089 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 : 2221 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 2225 a 2230 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 2249 a 2251 Azione : QVK PAN ++ vento*0.8 (pv=0,70)-P3:p= 7.000e-03
			D3 :da 2285 a 2302 Azione : QVK PAN ++ vento*0.8 (pv=0,70)-P3:p= 7.000e-03
			D3 : 2340 Azione : QVK PAN ++ vento*0.8 (pv=1,14)-P3:p= 1.140e-02
			D3 : 2346 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 : 2346 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2363 a 2366 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2363 a 2366 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2368 a 2372 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2368 a 2372 Azione : QVK PAN ++ vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2374 a 2387 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 2575 a 2580 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 2587 a 2590 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 2597 a 2600 Azione : QVK PAN ++ vento*0.8 (pv=1,02)-P3:p= 1.020e-02
			D3 :da 2671 a 2691 Azione : QVK PAN ++ vento*0.8 (pv=1,14)-P3:p= 1.140e-02
9	Qvk	CDC=Qvk (carico da vento) dir Y -	D3 :da 1 a 48 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 49 a 62 Azione : QVK PAN -- vento*0.4 (pv=0,35)-P3:p= 3.500e-03
			D3 :da 63 a 82 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 83 a 117 Azione : QVK PAN -- vento*0.4 (pv=0,35)-P3:p= 3.500e-03
			D3 :da 118 a 166 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 181 a 208 Azione : QVK PAN -- vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 300 a 305 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 318 a 321 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 330 a 333 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 1138 a 1143 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 1150 a 1153 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 1160 a 1163 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 1234 a 1254 Azione : QVK PAN -- vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 :da 1304 a 1345 Azione : QVK PAN -- vento*0.4 (pv=0,35)-P3:p= 3.500e-03
			D3 :da 1346 a 1413 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 1768 a 1774 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03

CDC	Tipo	Sigla Id	Note
			D3 :da 1859 a 1886 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 1921 a 1927 Azione : QVK PAN -- vento*0.4 (pv=0,35)-P3:p= 3.500e-03
			D3 :da 1928 a 1955 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 1956 a 1962 Azione : QVK PAN -- vento*0.4 (pv=0,35)-P3:p= 3.500e-03
			D3 :da 2042 a 2044 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2047 a 2053 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2057 a 2060 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2061 a 2062 Azione : QVK PAN -- vento*0.4 (pv=0,35)-P3:p= 3.500e-03
			D3 :da 2069 a 2070 Azione : QVK PAN -- vento*0.4 (pv=0,35)-P3:p= 3.500e-03
			D3 :da 2073 a 2074 Azione : QVK PAN -- vento*0.4 (pv=0,35)-P3:p= 3.500e-03
			D3 : 2079 Azione : QVK PAN -- vento*0.4 (pv=0,35)-P3:p= 3.500e-03
			D3 : 2089 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 : 2221 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 2225 a 2230 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 2249 a 2251 Azione : QVK PAN -- vento*0.4 (pv=0,35)-P3:p= 3.500e-03
			D3 :da 2285 a 2302 Azione : QVK PAN -- vento*0.4 (pv=0,35)-P3:p= 3.500e-03
			D3 : 2340 Azione : QVK PAN -- vento*0.4 (pv=0,57)-P3:p= 5.700e-03
			D3 : 2346 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2363 a 2366 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2368 a 2372 Azione : QVK PAN -- vento*0.4 (da personalizzare)-P3:p= 2.800e-03
			D3 :da 2374 a 2387 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 2575 a 2580 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 2587 a 2590 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 2597 a 2600 Azione : QVK PAN -- vento*0.4 (pv=0,51)-P3:p= 5.100e-03
			D3 :da 2671 a 2691 Azione : QVK PAN -- vento*0.4 (pv=0,57)-P3:p= 5.700e-03
10	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=G2sk (permanente solai-coperture n.c.d.)
			partecipazione:1.00 per 4 CDC=Qsk (variabile solai)
			partecipazione:1.00 per 5 CDC=Qnk (carico da neve)
11	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. -)	come precedente CDC sismico
12	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. +)	come precedente CDC sismico
13	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. -)	come precedente CDC sismico
14	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
15	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
16	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
17	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico
18	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	come precedente CDC sismico
19	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
20	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
21	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
22	Edk	CDC=Ed (dinamico SL CO) alfa=0.0 (ecc. +)	come precedente CDC sismico
23	Edk	CDC=Ed (dinamico SL CO) alfa=0.0 (ecc. -)	come precedente CDC sismico
24	Edk	CDC=Ed (dinamico SL CO) alfa=90.00 (ecc. +)	come precedente CDC sismico
25	Edk	CDC=Ed (dinamico SL CO) alfa=90.00 (ecc. -)	come precedente CDC sismico

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 5	

Cmb	Tipo	Sigla Id	effetto P-delta
6	SLU	Comb. SLU A1 6	
7	SLU	Comb. SLU A1 7	
8	SLU	Comb. SLU A1 8	
9	SLU	Comb. SLU A1 9	
10	SLU	Comb. SLU A1 10	
11	SLU	Comb. SLU A1 11	
12	SLU	Comb. SLU A1 12	
13	SLU	Comb. SLU A1 13	
14	SLU	Comb. SLU A1 14	
15	SLU	Comb. SLU A1 15	
16	SLU	Comb. SLU A1 16	
17	SLU	Comb. SLU A1 17	
18	SLU	Comb. SLU A1 18	
19	SLU	Comb. SLU A1 19	
20	SLU	Comb. SLU A1 20	
21	SLU	Comb. SLU A1 21	
22	SLU	Comb. SLU A1 22	
23	SLU	Comb. SLU A1 23	
24	SLU	Comb. SLU A1 24	
25	SLU	Comb. SLU A1 25	
26	SLU	Comb. SLU A1 26	
27	SLU	Comb. SLU A1 27	
28	SLU	Comb. SLU A1 28	
29	SLU	Comb. SLU A1 29	
30	SLU	Comb. SLU A1 30	
31	SLU	Comb. SLU A1 31	
32	SLU	Comb. SLU A1 32	
33	SLU	Comb. SLU A1 33	
34	SLU	Comb. SLU A1 34	
35	SLU	Comb. SLU A1 35	
36	SLU	Comb. SLU A1 36	
37	SLU	Comb. SLU A1 37	
38	SLU	Comb. SLU A1 38	
39	SLU	Comb. SLU A1 39	
40	SLU	Comb. SLU A1 40	
41	SLU	Comb. SLU A1 41	
42	SLU	Comb. SLU A1 42	
43	SLU	Comb. SLU A1 43	
44	SLU	Comb. SLU A1 44	
45	SLU	Comb. SLU A1 45	
46	SLU	Comb. SLU A1 46	
47	SLU	Comb. SLU A1 47	
48	SLU	Comb. SLU A1 48	
49	SLU	Comb. SLU A1 49	
50	SLU	Comb. SLU A1 50	
51	SLU	Comb. SLU A1 51	
52	SLU	Comb. SLU A1 52	
53	SLU	Comb. SLU A1 53	
54	SLU	Comb. SLU A1 54	
55	SLU	Comb. SLU A1 55	
56	SLU	Comb. SLU A1 56	
57	SLU	Comb. SLU A1 57	
58	SLU	Comb. SLU A1 58	
59	SLU	Comb. SLU A1 59	
60	SLU	Comb. SLU A1 60	
61	SLU	Comb. SLU A1 61	
62	SLU	Comb. SLU A1 62	
63	SLU	Comb. SLU A1 63	
64	SLU	Comb. SLU A1 64	
65	SLU	Comb. SLU A1 65	
66	SLU	Comb. SLU A1 66	
67	SLU	Comb. SLU A1 67	
68	SLU	Comb. SLU A1 68	
69	SLU	Comb. SLU A1 69	
70	SLU	Comb. SLU A1 70	
71	SLU	Comb. SLU A1 71	
72	SLU	Comb. SLU A1 72	
73	SLU	Comb. SLU A1 73	
74	SLU	Comb. SLU A1 74	
75	SLU	Comb. SLU A1 75	
76	SLU	Comb. SLU A1 76	
77	SLU	Comb. SLU A1 77	
78	SLU	Comb. SLU A1 78	
79	SLU	Comb. SLU A1 79	

Cmb	Tipo	Sigla Id	effetto P-delta
80	SLU	Comb. SLU A1 80	
81	SLU	Comb. SLU A1 81	
82	SLU	Comb. SLU A1 82	
83	SLU	Comb. SLU A1 83	
84	SLU	Comb. SLU A1 84	
85	SLU	Comb. SLU A1 85	
86	SLU	Comb. SLU A1 86	
87	SLU	Comb. SLU A1 87	
88	SLU	Comb. SLU A1 88	
89	SLU	Comb. SLU A1 89	
90	SLU	Comb. SLU A1 90	
91	SLU	Comb. SLU A1 91	
92	SLU	Comb. SLU A1 92	
93	SLU	Comb. SLU A1 93	
94	SLU	Comb. SLU A1 94	
95	SLU	Comb. SLU A1 95	
96	SLU	Comb. SLU A1 96	
97	SLU	Comb. SLU A1 97	
98	SLU	Comb. SLU A1 98	
99	SLU	Comb. SLU A1 99	
100	SLU	Comb. SLU A1 100	
101	SLU	Comb. SLU A1 101	
102	SLU	Comb. SLU A1 102	
103	SLU	Comb. SLU A1 103	
104	SLU	Comb. SLU A1 104	
105	SLU	Comb. SLU A1 105	
106	SLU	Comb. SLU A1 106	
107	SLU	Comb. SLU A1 107	
108	SLU	Comb. SLU A1 108	
109	SLU	Comb. SLU A1 109	
110	SLU	Comb. SLU A1 110	
111	SLU	Comb. SLU A1 111	
112	SLU	Comb. SLU A1 112	
113	SLD(sis)	Comb. SLE (SLO Operativo sism.) 113	
114	SLD(sis)	Comb. SLE (SLO Operativo sism.) 114	
115	SLD(sis)	Comb. SLE (SLO Operativo sism.) 115	
116	SLD(sis)	Comb. SLE (SLO Operativo sism.) 116	
117	SLD(sis)	Comb. SLE (SLO Operativo sism.) 117	
118	SLD(sis)	Comb. SLE (SLO Operativo sism.) 118	
119	SLD(sis)	Comb. SLE (SLO Operativo sism.) 119	
120	SLD(sis)	Comb. SLE (SLO Operativo sism.) 120	
121	SLD(sis)	Comb. SLE (SLO Operativo sism.) 121	
122	SLD(sis)	Comb. SLE (SLO Operativo sism.) 122	
123	SLD(sis)	Comb. SLE (SLO Operativo sism.) 123	
124	SLD(sis)	Comb. SLE (SLO Operativo sism.) 124	
125	SLD(sis)	Comb. SLE (SLO Operativo sism.) 125	
126	SLD(sis)	Comb. SLE (SLO Operativo sism.) 126	
127	SLD(sis)	Comb. SLE (SLO Operativo sism.) 127	
128	SLD(sis)	Comb. SLE (SLO Operativo sism.) 128	
129	SLD(sis)	Comb. SLE (SLO Operativo sism.) 129	
130	SLD(sis)	Comb. SLE (SLO Operativo sism.) 130	
131	SLD(sis)	Comb. SLE (SLO Operativo sism.) 131	
132	SLD(sis)	Comb. SLE (SLO Operativo sism.) 132	
133	SLD(sis)	Comb. SLE (SLO Operativo sism.) 133	
134	SLD(sis)	Comb. SLE (SLO Operativo sism.) 134	
135	SLD(sis)	Comb. SLE (SLO Operativo sism.) 135	
136	SLD(sis)	Comb. SLE (SLO Operativo sism.) 136	
137	SLD(sis)	Comb. SLE (SLO Operativo sism.) 137	
138	SLD(sis)	Comb. SLE (SLO Operativo sism.) 138	
139	SLD(sis)	Comb. SLE (SLO Operativo sism.) 139	
140	SLD(sis)	Comb. SLE (SLO Operativo sism.) 140	
141	SLD(sis)	Comb. SLE (SLO Operativo sism.) 141	
142	SLD(sis)	Comb. SLE (SLO Operativo sism.) 142	
143	SLD(sis)	Comb. SLE (SLO Operativo sism.) 143	
144	SLD(sis)	Comb. SLE (SLO Operativo sism.) 144	
145	SLD(sis)	Comb. SLE (SLD Danno sism.) 145	
146	SLD(sis)	Comb. SLE (SLD Danno sism.) 146	
147	SLD(sis)	Comb. SLE (SLD Danno sism.) 147	
148	SLD(sis)	Comb. SLE (SLD Danno sism.) 148	
149	SLD(sis)	Comb. SLE (SLD Danno sism.) 149	
150	SLD(sis)	Comb. SLE (SLD Danno sism.) 150	
151	SLD(sis)	Comb. SLE (SLD Danno sism.) 151	
152	SLD(sis)	Comb. SLE (SLD Danno sism.) 152	
153	SLD(sis)	Comb. SLE (SLD Danno sism.) 153	

Cmb	Tipo	Sigla Id	effetto P-delta
154	SLD(sis)	Comb. SLE (SLD Danno sism.) 154	
155	SLD(sis)	Comb. SLE (SLD Danno sism.) 155	
156	SLD(sis)	Comb. SLE (SLD Danno sism.) 156	
157	SLD(sis)	Comb. SLE (SLD Danno sism.) 157	
158	SLD(sis)	Comb. SLE (SLD Danno sism.) 158	
159	SLD(sis)	Comb. SLE (SLD Danno sism.) 159	
160	SLD(sis)	Comb. SLE (SLD Danno sism.) 160	
161	SLD(sis)	Comb. SLE (SLD Danno sism.) 161	
162	SLD(sis)	Comb. SLE (SLD Danno sism.) 162	
163	SLD(sis)	Comb. SLE (SLD Danno sism.) 163	
164	SLD(sis)	Comb. SLE (SLD Danno sism.) 164	
165	SLD(sis)	Comb. SLE (SLD Danno sism.) 165	
166	SLD(sis)	Comb. SLE (SLD Danno sism.) 166	
167	SLD(sis)	Comb. SLE (SLD Danno sism.) 167	
168	SLD(sis)	Comb. SLE (SLD Danno sism.) 168	
169	SLD(sis)	Comb. SLE (SLD Danno sism.) 169	
170	SLD(sis)	Comb. SLE (SLD Danno sism.) 170	
171	SLD(sis)	Comb. SLE (SLD Danno sism.) 171	
172	SLD(sis)	Comb. SLE (SLD Danno sism.) 172	
173	SLD(sis)	Comb. SLE (SLD Danno sism.) 173	
174	SLD(sis)	Comb. SLE (SLD Danno sism.) 174	
175	SLD(sis)	Comb. SLE (SLD Danno sism.) 175	
176	SLD(sis)	Comb. SLE (SLD Danno sism.) 176	
177	SLU	Comb. SLU A1 (SLV sism.) 177	
178	SLU	Comb. SLU A1 (SLV sism.) 178	
179	SLU	Comb. SLU A1 (SLV sism.) 179	
180	SLU	Comb. SLU A1 (SLV sism.) 180	
181	SLU	Comb. SLU A1 (SLV sism.) 181	
182	SLU	Comb. SLU A1 (SLV sism.) 182	
183	SLU	Comb. SLU A1 (SLV sism.) 183	
184	SLU	Comb. SLU A1 (SLV sism.) 184	
185	SLU	Comb. SLU A1 (SLV sism.) 185	
186	SLU	Comb. SLU A1 (SLV sism.) 186	
187	SLU	Comb. SLU A1 (SLV sism.) 187	
188	SLU	Comb. SLU A1 (SLV sism.) 188	
189	SLU	Comb. SLU A1 (SLV sism.) 189	
190	SLU	Comb. SLU A1 (SLV sism.) 190	
191	SLU	Comb. SLU A1 (SLV sism.) 191	
192	SLU	Comb. SLU A1 (SLV sism.) 192	
193	SLU	Comb. SLU A1 (SLV sism.) 193	
194	SLU	Comb. SLU A1 (SLV sism.) 194	
195	SLU	Comb. SLU A1 (SLV sism.) 195	
196	SLU	Comb. SLU A1 (SLV sism.) 196	
197	SLU	Comb. SLU A1 (SLV sism.) 197	
198	SLU	Comb. SLU A1 (SLV sism.) 198	
199	SLU	Comb. SLU A1 (SLV sism.) 199	
200	SLU	Comb. SLU A1 (SLV sism.) 200	
201	SLU	Comb. SLU A1 (SLV sism.) 201	
202	SLU	Comb. SLU A1 (SLV sism.) 202	
203	SLU	Comb. SLU A1 (SLV sism.) 203	
204	SLU	Comb. SLU A1 (SLV sism.) 204	
205	SLU	Comb. SLU A1 (SLV sism.) 205	
206	SLU	Comb. SLU A1 (SLV sism.) 206	
207	SLU	Comb. SLU A1 (SLV sism.) 207	
208	SLU	Comb. SLU A1 (SLV sism.) 208	
209	SLU	Comb. SLU A1 (SLC sism.) 209	
210	SLU	Comb. SLU A1 (SLC sism.) 210	
211	SLU	Comb. SLU A1 (SLC sism.) 211	
212	SLU	Comb. SLU A1 (SLC sism.) 212	
213	SLU	Comb. SLU A1 (SLC sism.) 213	
214	SLU	Comb. SLU A1 (SLC sism.) 214	
215	SLU	Comb. SLU A1 (SLC sism.) 215	
216	SLU	Comb. SLU A1 (SLC sism.) 216	
217	SLU	Comb. SLU A1 (SLC sism.) 217	
218	SLU	Comb. SLU A1 (SLC sism.) 218	
219	SLU	Comb. SLU A1 (SLC sism.) 219	
220	SLU	Comb. SLU A1 (SLC sism.) 220	
221	SLU	Comb. SLU A1 (SLC sism.) 221	
222	SLU	Comb. SLU A1 (SLC sism.) 222	
223	SLU	Comb. SLU A1 (SLC sism.) 223	
224	SLU	Comb. SLU A1 (SLC sism.) 224	
225	SLU	Comb. SLU A1 (SLC sism.) 225	
226	SLU	Comb. SLU A1 (SLC sism.) 226	
227	SLU	Comb. SLU A1 (SLC sism.) 227	

Cmb	Tipo	Sigla Id	effetto P-delta
228	SLU	Comb. SLU A1 (SLC sism.) 228	
229	SLU	Comb. SLU A1 (SLC sism.) 229	
230	SLU	Comb. SLU A1 (SLC sism.) 230	
231	SLU	Comb. SLU A1 (SLC sism.) 231	
232	SLU	Comb. SLU A1 (SLC sism.) 232	
233	SLU	Comb. SLU A1 (SLC sism.) 233	
234	SLU	Comb. SLU A1 (SLC sism.) 234	
235	SLU	Comb. SLU A1 (SLC sism.) 235	
236	SLU	Comb. SLU A1 (SLC sism.) 236	
237	SLU	Comb. SLU A1 (SLC sism.) 237	
238	SLU	Comb. SLU A1 (SLC sism.) 238	
239	SLU	Comb. SLU A1 (SLC sism.) 239	
240	SLU	Comb. SLU A1 (SLC sism.) 240	
241	SLE(r)	Comb. SLE(rara) 241	
242	SLE(r)	Comb. SLE(rara) 242	
243	SLE(r)	Comb. SLE(rara) 243	
244	SLE(r)	Comb. SLE(rara) 244	
245	SLE(r)	Comb. SLE(rara) 245	
246	SLE(r)	Comb. SLE(rara) 246	
247	SLE(r)	Comb. SLE(rara) 247	
248	SLE(r)	Comb. SLE(rara) 248	
249	SLE(r)	Comb. SLE(rara) 249	
250	SLE(r)	Comb. SLE(rara) 250	
251	SLE(r)	Comb. SLE(rara) 251	
252	SLE(r)	Comb. SLE(rara) 252	
253	SLE(r)	Comb. SLE(rara) 253	
254	SLE(r)	Comb. SLE(rara) 254	
255	SLE(r)	Comb. SLE(rara) 255	
256	SLE(r)	Comb. SLE(rara) 256	
257	SLE(r)	Comb. SLE(rara) 257	
258	SLE(r)	Comb. SLE(rara) 258	
259	SLE(r)	Comb. SLE(rara) 259	
260	SLE(r)	Comb. SLE(rara) 260	
261	SLE(r)	Comb. SLE(rara) 261	
262	SLE(r)	Comb. SLE(rara) 262	
263	SLE(r)	Comb. SLE(rara) 263	
264	SLE(r)	Comb. SLE(rara) 264	
265	SLE(r)	Comb. SLE(rara) 265	
266	SLE(r)	Comb. SLE(rara) 266	
267	SLE(r)	Comb. SLE(rara) 267	
268	SLE(r)	Comb. SLE(rara) 268	
269	SLE(r)	Comb. SLE(rara) 269	
270	SLE(r)	Comb. SLE(rara) 270	
271	SLE(r)	Comb. SLE(rara) 271	
272	SLE(r)	Comb. SLE(rara) 272	
273	SLE(r)	Comb. SLE(rara) 273	
274	SLE(r)	Comb. SLE(rara) 274	
275	SLE(r)	Comb. SLE(rara) 275	
276	SLE(r)	Comb. SLE(rara) 276	
277	SLE(r)	Comb. SLE(rara) 277	
278	SLE(r)	Comb. SLE(rara) 278	
279	SLE(r)	Comb. SLE(rara) 279	
280	SLE(r)	Comb. SLE(rara) 280	
281	SLE(r)	Comb. SLE(rara) 281	
282	SLE(r)	Comb. SLE(rara) 282	
283	SLE(r)	Comb. SLE(rara) 283	
284	SLE(r)	Comb. SLE(rara) 284	
285	SLE(r)	Comb. SLE(rara) 285	
286	SLE(r)	Comb. SLE(rara) 286	
287	SLE(r)	Comb. SLE(rara) 287	
288	SLE(r)	Comb. SLE(rara) 288	
289	SLE(r)	Comb. SLE(rara) 289	
290	SLE(r)	Comb. SLE(rara) 290	
291	SLE(r)	Comb. SLE(rara) 291	
292	SLE(r)	Comb. SLE(rara) 292	
293	SLE(r)	Comb. SLE(rara) 293	
294	SLE(r)	Comb. SLE(rara) 294	
295	SLE(r)	Comb. SLE(rara) 295	
296	SLE(r)	Comb. SLE(rara) 296	
297	SLE(f)	Comb. SLE(freq.) 297	
298	SLE(f)	Comb. SLE(freq.) 298	
299	SLE(f)	Comb. SLE(freq.) 299	
300	SLE(f)	Comb. SLE(freq.) 300	
301	SLE(f)	Comb. SLE(freq.) 301	

Cmb	Tipo	Sigla Id	effetto P-delta
302	SLE(f)	Comb. SLE(freq.) 302	
303	SLE(f)	Comb. SLE(freq.) 303	
304	SLE(f)	Comb. SLE(freq.) 304	
305	SLE(f)	Comb. SLE(freq.) 305	
306	SLE(f)	Comb. SLE(freq.) 306	
307	SLE(f)	Comb. SLE(freq.) 307	
308	SLE(f)	Comb. SLE(freq.) 308	
309	SLE(p)	Comb. SLE(perm.) 310	
310	SLE(p)	Comb. SLE(perm.) 311	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	1.30	1.50	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
2	1.30	1.30	1.50	0.0	0.75	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	1.30	1.30	1.50	1.50	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
4	1.30	1.30	1.50	1.50	0.75	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
5	1.00	1.00	0.80	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
6	1.00	1.00	0.80	0.0	0.75	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
7	1.00	1.00	0.80	1.50	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	1.00	1.00	0.80	1.50	0.75	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	1.30	1.30	1.50	0.0	1.50	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	1.30	1.30	1.50	1.05	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	1.30	1.30	1.50	1.05	1.50	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	1.00	1.00	0.80	0.0	1.50	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13	1.00	1.00	0.80	1.05	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	1.00	1.00	0.80	1.05	1.50	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	1.30	1.30	1.50	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
16	1.30	1.30	1.50	0.0	0.75	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	1.30	1.30	1.50	1.05	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	1.30	1.30	1.50	1.05	0.75	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	1.00	1.00	0.80	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	1.00	1.00	0.80	0.0	0.75	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	1.00	1.00	0.80	1.05	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	1.00	1.00	0.80	1.05	0.75	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	1.30	1.30	1.50	1.05	0.75	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	1.00	1.00	0.80	1.05	0.75	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
25	1.30	1.30	1.50	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	1.30	1.30	1.50	0.0	0.75	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
27	1.30	1.30	1.50	1.50	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
28	1.30	1.30	1.50	1.50	0.75	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
29	1.00	1.00	0.80	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	1.00	1.00	0.80	0.0	0.75	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	1.00	1.00	0.80	1.50	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
32	1.00	1.00	0.80	1.50	0.75	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
33	1.30	1.30	1.50	0.0	1.50	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
34	1.30	1.30	1.50	1.05	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
35	1.30	1.30	1.50	1.05	1.50	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
36	1.00	1.00	0.80	0.0	1.50	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
37	1.00	1.00	0.80	1.05	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
38	1.00	1.00	0.80	1.05	1.50	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
39	1.30	1.30	1.50	1.05	0.75	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
40	1.00	1.00	0.80	1.05	0.75	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
41	1.30	1.30	1.50	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
42	1.30	1.30	1.50	0.0	0.75	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
43	1.30	1.30	1.50	1.05	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
44	1.30	1.30	1.50	1.05	0.75	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
45	1.00	1.00	0.80	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
46	1.00	1.00	0.80	0.0	0.75	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
47	1.00	1.00	0.80	1.05	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
48	1.00	1.00	0.80	1.05	0.75	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
49	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
50	1.30	1.30	1.50	0.0	0.75	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
51	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
52	1.30	1.30	1.50	1.50	0.75	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
53	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
54	1.00	1.00	0.80	0.0	0.75	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
55	1.00	1.00	0.80	1.50	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
56	1.00	1.00	0.80	1.50	0.75	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
57	1.30	1.30	1.50	0.0	1.50	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
58	1.30	1.30	1.50	1.05	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
59	1.30	1.30	1.50	1.05	1.50	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
60	1.00	1.00	0.80	0.0	1.50	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
61	1.00	1.00	0.80	1.05	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
62	1.00	1.00	0.80	1.05	1.50	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
63	1.30	1.30	1.50	1.05	0.75	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
64	1.00	1.00	0.80	1.05	0.75	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
65	1.30	1.30	1.50	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
66	1.30	1.30	1.50	0.0	0.75	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
67	1.30	1.30	1.50	1.05	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
68	1.30	1.30	1.50	1.05	0.75	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
69	1.00	1.00	0.80	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
70	1.00	1.00	0.80	0.0	0.75	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
71	1.00	1.00	0.80	1.05	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
72	1.00	1.00	0.80	1.05	0.75	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
73	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
74	1.30	1.30	1.50	0.0	0.75	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
75	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
76	1.30	1.30	1.50	1.50	0.75	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
77	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
78	1.00	1.00	0.80	0.0	0.75	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
79	1.00	1.00	0.80	1.50	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
80	1.00	1.00	0.80	1.50	0.75	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
81	1.30	1.30	1.50	0.0	1.50	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
82	1.30	1.30	1.50	1.05	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
83	1.30	1.30	1.50	1.05	1.50	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
84	1.00	1.00	0.80	0.0	1.50	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
85	1.00	1.00	0.80	1.05	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
86	1.00	1.00	0.80	1.05	1.50	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
87	1.30	1.30	1.50	1.05	0.75	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
88	1.00	1.00	0.80	1.05	0.75	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
89	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
90	1.30	1.30	1.50	0.0	0.75	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
91	1.30	1.30	1.50	1.05	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
92	1.30	1.30	1.50	1.05	0.75	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
93	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
94	1.00	1.00	0.80	0.0	0.75	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
95	1.00	1.00	0.80	1.05	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
96	1.00	1.00	0.80	1.05	0.75	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
97	1.30	1.30	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
98	1.30	1.30	1.50	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
99	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
100	1.30	1.30	1.50	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
101	1.00	1.00	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
102	1.00	1.00	0.80	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
103	1.00	1.00	0.80	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
104	1.00	1.00	0.80	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
105	1.30	1.30	1.50	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
106	1.30	1.30	1.50	1.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
107	1.30	1.30	1.50	1.05	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
108	1.00	1.00	0.80	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
109	1.00	1.00	0.80	1.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
110	1.00	1.00	0.80	1.05	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
111	1.30	1.30	1.50	1.05	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
112	1.00	1.00	0.80	1.05	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
113	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
114	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
115	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
116	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
117	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
118	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
119	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
120	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
121	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
122	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
123	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
124	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
125	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
126	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
127	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
128	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
129	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
130	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
131	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
132	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
133	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
134	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
135	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
136	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
137	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
138	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
139	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
140	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
141	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
142	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
143	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
144	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
145	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00
	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
146	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00
	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
147	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00
	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
148	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00
	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
149	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00
	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
150	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00
	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
151	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00
	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
152	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00
	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
153	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
154	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
155	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
156	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
157	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
158	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
159	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
160	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
161	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30
	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
162	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30
	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
163	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30
	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
164	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30
	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
165	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
166	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
167	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
168	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.30	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
169	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30
	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
170	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30
	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
171	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30
	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
172	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30
	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
173	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
174	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
175	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
176	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
177	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0			
178	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0			
179	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0			
180	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0			
181	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0			
182	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0			
183	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0			
184	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0			
185	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0			
186	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0			
187	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0			
188	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0			
189	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0			
190	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0			
191	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0			
192	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0			
193	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0			
194	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0			
195	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0			
196	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0			
197	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0			
198	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0			
199	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0			
200	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0			
201	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0			
202	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0			
203	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0			
204	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0			
205	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0			
206	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0			
207	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0			
208	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0			
209	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0			
210	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0			
211	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0			
212	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0			
213	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30			

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
214	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30			
215	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30			
216	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30			
217	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0			
218	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0			
219	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0			
220	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0			
221	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30			
222	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30			
223	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30			
224	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30			
225	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0			
226	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0			
227	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0			
228	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0			
229	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0			
230	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0			
231	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0			
232	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0			
233	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00			
234	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00			
235	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00			
236	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00			
237	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00			
238	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00			
239	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00			
240	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00			
241	1.00	1.00	1.00	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
242	1.00	1.00	1.00	0.0	0.50	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
243	1.00	1.00	1.00	1.00	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
244	1.00	1.00	1.00	1.00	0.50	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
245	1.00	1.00	1.00	0.0	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
246	1.00	1.00	1.00	0.70	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
247	1.00	1.00	1.00	0.70	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
248	1.00	1.00	1.00	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
249	1.00	1.00	1.00	0.0	0.50	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
250	1.00	1.00	1.00	0.70	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
251	1.00	1.00	1.00	0.70	0.50	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
252	1.00	1.00	1.00	0.70	0.50	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
253	1.00	1.00	1.00	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
254	1.00	1.00	1.00	0.0	0.50	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
255	1.00	1.00	1.00	1.00	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
256	1.00	1.00	1.00	1.00	0.50	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
257	1.00	1.00	1.00	0.0	1.00	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
258	1.00	1.00	1.00	0.70	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
259	1.00	1.00	1.00	0.70	1.00	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
260	1.00	1.00	1.00	0.70	0.50	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
261	1.00	1.00	1.00	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
262	1.00	1.00	1.00	0.0	0.50	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
263	1.00	1.00	1.00	0.70	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
264	1.00	1.00	1.00	0.70	0.50	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
265	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
266	1.00	1.00	1.00	0.0	0.50	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
267	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
268	1.00	1.00	1.00	1.00	0.50	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
269	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
270	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
271	1.00	1.00	1.00	0.70	1.00	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
272	1.00	1.00	1.00	0.70	0.50	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
273	1.00	1.00	1.00	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
274	1.00	1.00	1.00	0.0	0.50	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
275	1.00	1.00	1.00	0.70	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
276	1.00	1.00	1.00	0.70	0.50	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
277	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
278	1.00	1.00	1.00	0.0	0.50	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
279	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
280	1.00	1.00	1.00	1.00	0.50	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
281	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
282	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
283	1.00	1.00	1.00	0.70	1.00	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
284	1.00	1.00	1.00	0.70	0.50	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
285	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
286	1.00	1.00	1.00	0.0	0.50	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
287	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
288	1.00	1.00	1.00	0.70	0.50	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
289	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
290	1.00	1.00	1.00	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
291	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
292	1.00	1.00	1.00	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
293	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
294	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
295	1.00	1.00	1.00	0.70	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
296	1.00	1.00	1.00	0.70	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
297	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
298	1.00	1.00	1.00	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
299	1.00	1.00	1.00	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
300	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
301	1.00	1.00	1.00	0.60	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
302	1.00	1.00	1.00	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
303	1.00	1.00	1.00	0.60	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
304	1.00	1.00	1.00	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
305	1.00	1.00	1.00	0.60	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
306	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
307	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
308	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
309	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
310	1.00	1.00	1.00	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

10.2 US 02-S

	Sigla	*Tipo*	*Descrizione*
1	**Ggk**	A	caso di carico comprensivo del peso proprio struttura
2	**Gk**	NA	caso di carico con azioni permanenti
3	**Qk**	NA	caso di carico con azioni variabili
4	**Gsk**	A	caso di carico comprensivo dei carichi permanenti sui solai e sulle coperture
5	**Qsk**	A	caso di carico comprensivo dei carichi variabili sui solai
6	**Qnk**	A	caso di carico comprensivo dei carichi di neve sulle coperture
7	**Qtk**	SA	caso di carico comprensivo di una variazione termica agente sulla struttura
8	**Qvk**	NA	caso di carico comprensivo di azioni da vento sulla struttura
9	**Esk**	SA	caso di carico sismico con analisi statica equivalente
10	**Edk**	SA	caso di carico sismico con analisi dinamica
11	**Etk**	NA	caso di carico comprensivo di azioni derivanti dall' incremento di spinta delle terre in condizione sismica
12	**Pk**	NA	caso di carico comprensivo di azioni derivanti da coazioni, cedimenti e precompressioni

CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Qsk	CDC=Qsk (variabile solai)	

CDC	Tipo	Sigla Id	Note
4	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=Qsk (variabile solai)
			partecipazione:1.00 per 21 CDC=G2k (permanente generico n.c.d.) tamponamenti
5	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
6	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
7	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
8	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
9	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
10	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
11	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico
12	Qvk	CDC=Qvk (carico da vento)	D2 :da 124 a 126 Azione : Vento-DG:Fyi=-0.85 Fyf=-0.85
			D2 : 137 Azione : Vento-DG:Fyi=-0.85 Fyf=-0.85
			D2 : 386 Azione : Vento-DG:Fyi=-0.85 Fyf=-0.85
			D2 : 390 Azione : Vento-DG:Fyi=-0.85 Fyf=-0.85
			D2 : 393 Azione : Vento-DG:Fyi=-0.85 Fyf=-0.85
			D2 : 422 Azione : Vento-DG:Fyi=-0.85 Fyf=-0.85
13	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. +)	come precedente CDC sismico
14	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. -)	come precedente CDC sismico
15	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. +)	come precedente CDC sismico
16	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. -)	come precedente CDC sismico
17	Edk	CDC=Ed (dinamico SL CO) alfa=0.0 (ecc. +)	come precedente CDC sismico
18	Edk	CDC=Ed (dinamico SL CO) alfa=0.0 (ecc. -)	come precedente CDC sismico
19	Edk	CDC=Ed (dinamico SL CO) alfa=90.00 (ecc. +)	come precedente CDC sismico
20	Edk	CDC=Ed (dinamico SL CO) alfa=90.00 (ecc. -)	come precedente CDC sismico
21	Gk	CDC=G2k (permanente generico n.c.d.) tamponamenti	D2 :da 149 a 164 Azione : DG:Fzi=-3.00 Fzf=-3.00
			D2 :da 167 a 184 Azione : DG:Fzi=-3.00 Fzf=-3.00
			D2 :da 186 a 203 Azione : DG:Fzi=-3.00 Fzf=-3.00
			D2 : 208 Azione : DG:Fzi=-3.00 Fzf=-3.00
			D2 : 220 Azione : DG:Fzi=-3.00 Fzf=-3.00
			D2 :da 411 a 418 Azione : DG:Fzi=-3.00 Fzf=-3.00
			D2 : 420 Azione : DG:Fzi=-3.00 Fzf=-3.00
			D2 : 428 Azione : DG:Fzi=-3.00 Fzf=-3.00

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 5	
6	SLU	Comb. SLU A1 6	
7	SLU	Comb. SLU A1 7	
8	SLU	Comb. SLU A1 8	
9	SLE(r)	Comb. SLE(rara) 9	
10	SLE(r)	Comb. SLE(rara) 10	
11	SLE(r)	Comb. SLE(rara) 11	
12	SLE(r)	Comb. SLE(rara) 12	
13	SLE(f)	Comb. SLE(freq.) 13	
14	SLE(f)	Comb. SLE(freq.) 14	
15	SLE(f)	Comb. SLE(freq.) 15	
16	SLE(f)	Comb. SLE(freq.) 16	
17	SLE(p)	Comb. SLE(perm.) 17	
18	SLE(p)	Comb. SLE(perm.) 18	
19	SLU	Comb. SLU A1 (SLV sism.) 19	
20	SLU	Comb. SLU A1 (SLV sism.) 20	
21	SLU	Comb. SLU A1 (SLV sism.) 21	
22	SLU	Comb. SLU A1 (SLV sism.) 22	
23	SLU	Comb. SLU A1 (SLV sism.) 23	
24	SLU	Comb. SLU A1 (SLV sism.) 24	
25	SLU	Comb. SLU A1 (SLV sism.) 25	
26	SLU	Comb. SLU A1 (SLV sism.) 26	
27	SLU	Comb. SLU A1 (SLV sism.) 27	
28	SLU	Comb. SLU A1 (SLV sism.) 28	
29	SLU	Comb. SLU A1 (SLV sism.) 29	
30	SLU	Comb. SLU A1 (SLV sism.) 30	
31	SLU	Comb. SLU A1 (SLV sism.) 31	
32	SLU	Comb. SLU A1 (SLV sism.) 32	
33	SLU	Comb. SLU A1 (SLV sism.) 33	
34	SLU	Comb. SLU A1 (SLV sism.) 34	
35	SLU	Comb. SLU A1 (SLV sism.) 35	
36	SLU	Comb. SLU A1 (SLV sism.) 36	
37	SLU	Comb. SLU A1 (SLV sism.) 37	

Cmb	Tipo	Sigla Id	effetto P-delta
38	SLU	Comb. SLU A1 (SLV sism.) 38	
39	SLU	Comb. SLU A1 (SLV sism.) 39	
40	SLU	Comb. SLU A1 (SLV sism.) 40	
41	SLU	Comb. SLU A1 (SLV sism.) 41	
42	SLU	Comb. SLU A1 (SLV sism.) 42	
43	SLU	Comb. SLU A1 (SLV sism.) 43	
44	SLU	Comb. SLU A1 (SLV sism.) 44	
45	SLU	Comb. SLU A1 (SLV sism.) 45	
46	SLU	Comb. SLU A1 (SLV sism.) 46	
47	SLU	Comb. SLU A1 (SLV sism.) 47	
48	SLU	Comb. SLU A1 (SLV sism.) 48	
49	SLU	Comb. SLU A1 (SLV sism.) 49	
50	SLU	Comb. SLU A1 (SLV sism.) 50	
51	SLD(sis)	Comb. SLE (SLD Danno sism.) 51	
52	SLD(sis)	Comb. SLE (SLD Danno sism.) 52	
53	SLD(sis)	Comb. SLE (SLD Danno sism.) 53	
54	SLD(sis)	Comb. SLE (SLD Danno sism.) 54	
55	SLD(sis)	Comb. SLE (SLD Danno sism.) 55	
56	SLD(sis)	Comb. SLE (SLD Danno sism.) 56	
57	SLD(sis)	Comb. SLE (SLD Danno sism.) 57	
58	SLD(sis)	Comb. SLE (SLD Danno sism.) 58	
59	SLD(sis)	Comb. SLE (SLD Danno sism.) 59	
60	SLD(sis)	Comb. SLE (SLD Danno sism.) 60	
61	SLD(sis)	Comb. SLE (SLD Danno sism.) 61	
62	SLD(sis)	Comb. SLE (SLD Danno sism.) 62	
63	SLD(sis)	Comb. SLE (SLD Danno sism.) 63	
64	SLD(sis)	Comb. SLE (SLD Danno sism.) 64	
65	SLD(sis)	Comb. SLE (SLD Danno sism.) 65	
66	SLD(sis)	Comb. SLE (SLD Danno sism.) 66	
67	SLD(sis)	Comb. SLE (SLD Danno sism.) 67	
68	SLD(sis)	Comb. SLE (SLD Danno sism.) 68	
69	SLD(sis)	Comb. SLE (SLD Danno sism.) 69	
70	SLD(sis)	Comb. SLE (SLD Danno sism.) 70	
71	SLD(sis)	Comb. SLE (SLD Danno sism.) 71	
72	SLD(sis)	Comb. SLE (SLD Danno sism.) 72	
73	SLD(sis)	Comb. SLE (SLD Danno sism.) 73	
74	SLD(sis)	Comb. SLE (SLD Danno sism.) 74	
75	SLD(sis)	Comb. SLE (SLD Danno sism.) 75	
76	SLD(sis)	Comb. SLE (SLD Danno sism.) 76	
77	SLD(sis)	Comb. SLE (SLD Danno sism.) 77	
78	SLD(sis)	Comb. SLE (SLD Danno sism.) 78	
79	SLD(sis)	Comb. SLE (SLD Danno sism.) 79	
80	SLD(sis)	Comb. SLE (SLD Danno sism.) 80	
81	SLD(sis)	Comb. SLE (SLD Danno sism.) 81	
82	SLD(sis)	Comb. SLE (SLD Danno sism.) 82	
83	SLD(sis)	Comb. SLE (SLO Operativo sism.) 83	
84	SLD(sis)	Comb. SLE (SLO Operativo sism.) 84	
85	SLD(sis)	Comb. SLE (SLO Operativo sism.) 85	
86	SLD(sis)	Comb. SLE (SLO Operativo sism.) 86	
87	SLD(sis)	Comb. SLE (SLO Operativo sism.) 87	
88	SLD(sis)	Comb. SLE (SLO Operativo sism.) 88	
89	SLD(sis)	Comb. SLE (SLO Operativo sism.) 89	
90	SLD(sis)	Comb. SLE (SLO Operativo sism.) 90	
91	SLD(sis)	Comb. SLE (SLO Operativo sism.) 91	
92	SLD(sis)	Comb. SLE (SLO Operativo sism.) 92	
93	SLD(sis)	Comb. SLE (SLO Operativo sism.) 93	
94	SLD(sis)	Comb. SLE (SLO Operativo sism.) 94	
95	SLD(sis)	Comb. SLE (SLO Operativo sism.) 95	
96	SLD(sis)	Comb. SLE (SLO Operativo sism.) 96	
97	SLD(sis)	Comb. SLE (SLO Operativo sism.) 97	
98	SLD(sis)	Comb. SLE (SLO Operativo sism.) 98	
99	SLD(sis)	Comb. SLE (SLO Operativo sism.) 99	
100	SLD(sis)	Comb. SLE (SLO Operativo sism.) 100	
101	SLD(sis)	Comb. SLE (SLO Operativo sism.) 101	
102	SLD(sis)	Comb. SLE (SLO Operativo sism.) 102	
103	SLD(sis)	Comb. SLE (SLO Operativo sism.) 103	
104	SLD(sis)	Comb. SLE (SLO Operativo sism.) 104	
105	SLD(sis)	Comb. SLE (SLO Operativo sism.) 105	
106	SLD(sis)	Comb. SLE (SLO Operativo sism.) 106	
107	SLD(sis)	Comb. SLE (SLO Operativo sism.) 107	
108	SLD(sis)	Comb. SLE (SLO Operativo sism.) 108	
109	SLD(sis)	Comb. SLE (SLO Operativo sism.) 109	
110	SLD(sis)	Comb. SLE (SLO Operativo sism.) 110	
111	SLD(sis)	Comb. SLE (SLO Operativo sism.) 111	

Cmb	Tipo	Sigla Id	effetto P-delta
112	SLD(sis)	Comb. SLE (SLO Operativo sism.) 112	
113	SLD(sis)	Comb. SLE (SLO Operativo sism.) 113	
114	SLD(sis)	Comb. SLE (SLO Operativo sism.) 114	
115	SLU	Comb. SLU A1 (SLC sism.) 115	
116	SLU	Comb. SLU A1 (SLC sism.) 116	
117	SLU	Comb. SLU A1 (SLC sism.) 117	
118	SLU	Comb. SLU A1 (SLC sism.) 118	
119	SLU	Comb. SLU A1 (SLC sism.) 119	
120	SLU	Comb. SLU A1 (SLC sism.) 120	
121	SLU	Comb. SLU A1 (SLC sism.) 121	
122	SLU	Comb. SLU A1 (SLC sism.) 122	
123	SLU	Comb. SLU A1 (SLC sism.) 123	
124	SLU	Comb. SLU A1 (SLC sism.) 124	
125	SLU	Comb. SLU A1 (SLC sism.) 125	
126	SLU	Comb. SLU A1 (SLC sism.) 126	
127	SLU	Comb. SLU A1 (SLC sism.) 127	
128	SLU	Comb. SLU A1 (SLC sism.) 128	
129	SLU	Comb. SLU A1 (SLC sism.) 129	
130	SLU	Comb. SLU A1 (SLC sism.) 130	
131	SLU	Comb. SLU A1 (SLC sism.) 131	
132	SLU	Comb. SLU A1 (SLC sism.) 132	
133	SLU	Comb. SLU A1 (SLC sism.) 133	
134	SLU	Comb. SLU A1 (SLC sism.) 134	
135	SLU	Comb. SLU A1 (SLC sism.) 135	
136	SLU	Comb. SLU A1 (SLC sism.) 136	
137	SLU	Comb. SLU A1 (SLC sism.) 137	
138	SLU	Comb. SLU A1 (SLC sism.) 138	
139	SLU	Comb. SLU A1 (SLC sism.) 139	
140	SLU	Comb. SLU A1 (SLC sism.) 140	
141	SLU	Comb. SLU A1 (SLC sism.) 141	
142	SLU	Comb. SLU A1 (SLC sism.) 142	
143	SLU	Comb. SLU A1 (SLC sism.) 143	
144	SLU	Comb. SLU A1 (SLC sism.) 144	
145	SLU	Comb. SLU A1 (SLC sism.) 145	
146	SLU	Comb. SLU A1 (SLC sism.) 146	

11 INDICAZIONE METODO DI ANALISI SEGUITO

L'analisi impiegata per la struttura in questione risulta essere il metodo di riferimento, vale a dire l'analisi dinamica lineare o analisi modale con spettro di risposta, effettuata mediante un codice di calcolo di comprovata affidabilità (PRO SAP della 2SI S.r.l.). Per quanto attiene ai risultati delle analisi sismiche si riportano le tabelle relative ai risultati delle analisi sismiche forniti dal programma di calcolo per l'edificio in esame.

11.1 LEGENDA TABELLA ANALISI SISMICHE US 02-L

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:

9. Esk caso di carico sismico con analisi statica equivalente

10. Edk caso di carico sismico con analisi dinamica

Ciascun caso di carico è caratterizzato da un angolo di ingresso e da una configurazione di masse determinante la forza sismica complessiva (si rimanda al capitolo relativo ai casi di carico per chiarimenti inerenti questo aspetto).

Nella colonna Note, in funzione della norma in uso sono riportati i parametri fondamentali che caratterizzano l' azione sismica: in particolare possono essere presenti i seguenti valori:

Angolo di ingresso	Angolo di ingresso dell'azione sismica orizzontale
Fattore di importanza	Fattore di importanza dell'edificio, in base alla categoria di appartenenza
Zona sismica	Zona sismica
Accelerazione ag	Accelerazione orizzontale massima sul suolo
Categoria suolo	Categoria di profilo stratigrafico del suolo di fondazione
Fattore q	Fattore di struttura/di comportamento. Dipendente dalla tipologia strutturale
Fattore di sito S	Fattore dipendente dalla stratigrafia e dal profilo topografico
Classe di duttilità CD	Classe di duttilità della struttura – "A" duttilità alta, "B" duttilità bassa
Fattore riduz. SLD	Fattore di riduzione dello spettro elastico per lo stato limite di danno
Periodo proprio T1	Periodo proprio di vibrazione della struttura
Coefficiente Lambda	Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura
Ordinata spettro Sd(T1)	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
Ordinata spettro Se(T1)	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
Ordinata spettro S (Tb-Tc)	Valore dell' ordinata dello spettro in uso nel tratto costante
numero di modi considerati	Numero di modi di vibrare della struttura considerati nell'analisi dinamica

Per ciascun caso di carico sismico viene riportato l'insieme di dati sotto riportati (le masse sono espresse in unità di forza):

a) **analisi sismica statica equivalente**:
- quota, posizione del centro di applicazione e azione orizzontale risultante, posizione del baricentro delle rigidezze, rapporto r/Ls (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
- azione sismica complessiva

b) **analisi sismica dinamica con spettro di risposta**:
- quota, posizione del centro di massa e massa risultante, posizione del baricentro delle rigidezze, rapporto r/Ls (per strutture a nucleo) **,** indici di regolarità e/r secondo EC8 4.2.3.2
- frequenza, periodo, accelerazione spettrale, massa eccitata nelle tre direzioni globali per tutti i modi
- massa complessiva ed aliquota di massa complessiva eccitata.

Per ciascuna combinazione sismica definita SLD o SLO viene riportato il livello di deformazione etaT (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità 1000*etaT/h da confrontare direttamente con i valori forniti nella norma (es. 5 per edifici con tamponamenti collegati rigidamente alla struttura, 10.0 per edifici con tamponamenti collegati elasticamente, 3 per edifici in muratura ordinaria, 4 per edifici in muratura armata).

Con riferimento al **Documento di Affidabilità** "Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo

23	DM 2008: SPETTRO
29	SISMICA 1000/H, SOMMA V, EFFETTO P-¤
30	ANALISI DI UN EDIFICIO CON ISOLATORI SISMICI
70	MASSE SISMICHE
75	PROGETTO DI ISOLATORI ELASTOMERICI
76	VERIFICA DI ISOLATORI ELASTOMERICI
77	VERIFICA DI ISOLATORI FRICTION PENDULUM

CDC	Tipo	Sigla Id	Note
10	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.298 sec.
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	0.0	-1.03	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	0.0	-1.03	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	0.0	-1.03	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	0.0	-1.03	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	0.0	-1.03	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	0.0	-1.03	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	0.0	-1.03	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	0.0	-1.03	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	0.0	-1.03	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	0.0	-1.03	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	0.0	-1.03	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	0.0	-1.03	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	0.0	-1.03	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	0.0	-1.03	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	0.0	-1.03	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	0.0	-1.03	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	0.0	-1.03	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	0.0	-1.03	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	0.0	-1.03	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	0.0	-1.03	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	0.0	-1.03	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	3.049	0.328	0.338	241.55	6.9	2621.67	74.6	0.41	1.16e-02	0.0	0.0
2	3.355	0.298	0.369	2710.52	77.1	321.79	9.2	0.69	1.97e-02	0.0	0.0
3	4.122	0.243	0.350	7.51	0.2	0.78	2.21e-02	22.60	0.6	0.0	0.0
4	4.541	0.220	0.283	3.55	0.1	0.22	6.16e-03	6.05	0.2	0.0	0.0
5	4.678	0.214	0.274	163.59	4.7	113.61	3.2	0.70	1.99e-02	0.0	0.0
6	5.765	0.173	0.235	0.08	2.18e-03	2.14	6.09e-02	26.25	0.7	0.0	0.0
7	5.930	0.169	0.232	0.13	3.70e-03	12.87	0.4	38.74	1.1	0.0	0.0
8	6.172	0.162	0.228	0.05	1.52e-03	2.79	7.92e-02	0.02	6.64e-04	0.0	0.0
9	6.581	0.152	0.222	4.65	0.1	0.02	5.71e-04	22.36	0.6	0.0	0.0
10	6.915	0.145	0.217	1.39	3.94e-02	6.89	0.2	24.62	0.7	0.0	0.0
11	7.981	0.125	0.201	0.70	2.00e-02	114.43	3.3	3.78	0.1	0.0	0.0
12	8.201	0.122	0.198	5.01	0.1	74.30	2.1	21.66	0.6	0.0	0.0
13	8.320	0.120	0.197	2.52	7.16e-02	133.48	3.8	2.40	6.83e-02	0.0	0.0
14	8.755	0.114	0.206	28.42	0.8	0.23	6.52e-03	5.92	0.2	0.0	0.0
15	8.909	0.112	0.209	256.53	7.3	0.48	1.36e-02	0.63	1.79e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
16	9.469	0.106	0.220	2.06	5.86e-02	4.75	0.1	9.55	0.3	0.0	0.0
17	11.346	0.088	0.207	0.21	5.84e-03	38.92	1.1	4.00e-03	1.14e-04	0.0	0.0
18	12.353	0.081	0.193	11.16	0.3	10.05	0.3	0.02	6.52e-04	0.0	0.0
19	12.718	0.079	0.188	5.96	0.2	0.12	3.40e-03	2.39	6.81e-02	0.0	0.0
20	13.036	0.077	0.184	1.82	5.17e-02	0.05	1.29e-03	4.56	0.1	0.0	0.0
21	13.754	0.073	0.175	4.89	0.1	0.13	3.73e-03	0.07	1.92e-03	0.0	0.0
22	15.021	0.067	0.161	0.03	9.55e-04	0.70	1.98e-02	0.02	5.19e-04	0.0	0.0
23	15.237	0.066	0.159	6.51	0.2	1.65e-06	0.0	0.02	4.54e-04	0.0	0.0
24	17.088	0.059	0.144	0.50	1.42e-02	3.60	0.1	0.54	1.54e-02	0.0	0.0
25	19.733	0.051	0.134	6.58	0.2	3.16	8.98e-02	35.24	1.0	0.0	0.0
26	20.612	0.049	0.131	0.54	1.55e-02	0.16	4.41e-03	197.68	5.6	0.0	0.0
27	21.433	0.047	0.129	0.29	8.20e-03	2.49	7.09e-02	5.93	0.2	0.0	0.0
28	22.675	0.044	0.126	0.15	4.36e-03	0.23	6.59e-03	231.98	6.6	0.0	0.0
29	24.331	0.041	0.122	6.87	0.2	2.75	7.81e-02	3.76e-04	1.07e-05	0.0	0.0
30	24.850	0.040	0.121	2.25	6.39e-02	6.17	0.2	3.94	0.1	0.0	0.0
31	29.058	0.034	0.119	1.51e-04	4.30e-06	0.03	9.63e-04	852.98	24.3	0.0	0.0
32	37.029	0.027	0.118	4.60	0.1	1.39	3.96e-02	7.61	0.2	0.0	0.0
33	39.908	0.025	0.117	1.09	3.09e-02	4.29	0.1	5.50	0.2	0.0	0.0
34	41.630	0.024	0.117	4.22e-03	1.20e-04	0.06	1.71e-03	1365.94	38.8	0.0	0.0
35	74.105	0.013	0.116	0.05	1.51e-03	0.47	1.32e-02	489.96	13.9	0.0	0.0
36	81.401	0.012	0.116	8.95	0.3	18.10	0.5	7.37	0.2	0.0	0.0
37	83.258	0.012	0.116	20.28	0.6	8.00	0.2	0.60	1.72e-02	0.0	0.0
Risulta				3510.99		3511.30		3398.74			
In percentuale				99.85		99.85		96.65			

CDC	Tipo	Sigla Id	Note
11	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.291 sec.
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	0.0	1.03	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	0.0	1.03	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	0.0	1.03	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	0.0	1.03	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	0.0	1.03	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	0.0	1.03	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	0.0	1.03	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	0.0	1.03	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	0.0	1.03	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	0.0	1.03	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	0.0	1.03	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	0.0	1.03	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	0.0	1.03	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	0.0	1.03	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	0.0	1.03	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	0.0	1.03	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	0.0	1.03	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	0.0	1.03	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	0.0	1.03	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	0.0	1.03	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	0.0	1.03	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	3.066	0.326	0.342	2.41	6.84e-02	2883.23	82.0	0.62	1.77e-02	0.0	0.0
2	3.440	0.291	0.361	3125.96	88.9	1.39	3.94e-02	0.42	1.21e-02	0.0	0.0
3	4.118	0.243	0.351	1.67	4.76e-02	0.92	2.61e-02	22.40	0.6	0.0	0.0
4	4.357	0.230	0.313	2.78	7.92e-02	168.31	4.8	0.31	8.92e-03	0.0	0.0
5	4.543	0.220	0.283	0.37	1.05e-02	2.68	7.63e-02	6.59	0.2	0.0	0.0
6	5.765	0.173	0.235	0.05	1.33e-03	2.22	6.32e-02	26.25	0.7	0.0	0.0
7	5.929	0.169	0.232	0.03	9.27e-04	12.31	0.4	38.52	1.1	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
8	6.167	0.162	0.228	1.89e-05	0.0	2.53	7.19e-02	0.01	3.44e-04	0.0	0.0
9	6.571	0.152	0.222	5.30	0.2	1.71e-03	4.85e-05	23.25	0.7	0.0	0.0
10	6.912	0.145	0.217	1.37	3.89e-02	7.31	0.2	24.18	0.7	0.0	0.0
11	7.983	0.125	0.201	0.01	3.92e-04	112.78	3.2	4.11	0.1	0.0	0.0
12	8.209	0.122	0.198	0.56	1.59e-02	81.35	2.3	21.11	0.6	0.0	0.0
13	8.311	0.120	0.197	5.64	0.2	126.08	3.6	2.73	7.75e-02	0.0	0.0
14	8.747	0.114	0.206	9.70	0.3	1.70	4.85e-02	6.49	0.2	0.0	0.0
15	9.333	0.107	0.217	237.32	6.7	5.52	0.2	0.73	2.09e-02	0.0	0.0
16	9.490	0.105	0.220	47.57	1.4	1.74	4.95e-02	8.56	0.2	0.0	0.0
17	11.285	0.089	0.207	0.03	8.90e-04	44.85	1.3	9.03e-03	2.57e-04	0.0	0.0
18	11.789	0.085	0.200	0.42	1.18e-02	1.09	3.10e-02	2.25e-03	6.39e-05	0.0	0.0
19	12.164	0.082	0.195	5.98	0.2	0.03	8.87e-04	8.17e-03	2.32e-04	0.0	0.0
20	12.912	0.077	0.185	1.23	3.51e-02	5.57e-03	1.58e-04	6.82	0.2	0.0	0.0
21	13.569	0.074	0.177	7.68	0.2	0.43	1.22e-02	0.15	4.13e-03	0.0	0.0
22	15.613	0.064	0.155	2.63	7.48e-02	4.38	0.1	0.57	1.62e-02	0.0	0.0
23	16.248	0.062	0.149	5.40	0.2	1.43	4.06e-02	0.44	1.27e-02	0.0	0.0
24	16.672	0.060	0.146	1.82e-03	5.17e-05	3.48	9.91e-02	0.40	1.13e-02	0.0	0.0
25	17.837	0.056	0.141	0.39	1.12e-02	0.33	9.43e-03	3.67	0.1	0.0	0.0
26	19.484	0.051	0.135	1.53	4.35e-02	0.29	8.33e-03	8.08	0.2	0.0	0.0
27	21.062	0.047	0.130	0.24	6.82e-03	1.55e-05	0.0	356.08	10.1	0.0	0.0
28	22.842	0.044	0.125	2.35	6.69e-02	6.01	0.2	15.57	0.4	0.0	0.0
29	23.915	0.042	0.123	5.79	0.2	4.28	0.1	5.28	0.2	0.0	0.0
30	26.310	0.038	0.120	2.87	8.16e-02	1.32	3.76e-02	189.61	5.4	0.0	0.0
31	28.674	0.035	0.119	0.89	2.54e-02	0.58	1.64e-02	650.99	18.5	0.0	0.0
32	35.930	0.028	0.118	0.59	1.69e-02	4.55	0.1	40.76	1.2	0.0	0.0
33	39.241	0.025	0.117	1.37	3.89e-02	0.09	2.59e-03	917.38	26.1	0.0	0.0
34	44.393	0.023	0.117	2.11	6.01e-02	0.87	2.46e-02	492.58	14.0	0.0	0.0
35	70.860	0.014	0.116	1.32	3.76e-02	1.43	4.06e-02	481.69	13.7	0.0	0.0
36	79.579	0.013	0.116	4.62	0.1	22.09	0.6	6.88	0.2	0.0	0.0
37	85.730	0.012	0.116	22.99	0.7	3.22	9.15e-02	27.84	0.8	0.0	0.0
Risulta				3511.19		3510.84		3391.07			
In percentuale				99.85		99.84		96.44			

CDC	Tipo	Sigla Id	Note
12	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.336 sec.
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	1.03	0.0	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	1.03	0.0	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	1.03	0.0	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	1.03	0.0	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	1.03	0.0	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	1.03	0.0	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	1.03	0.0	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	1.03	0.0	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	1.03	0.0	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	1.03	0.0	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	1.03	0.0	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	1.03	0.0	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	1.03	0.0	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	1.03	0.0	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	1.03	0.0	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	1.03	0.0	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	1.03	0.0	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	1.03	0.0	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	1.03	0.0	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	2.974	0.336	0.318	59.91	1.7	2743.06	78.0	0.47	1.33e-02	0.0	0.0
2	3.422	0.292	0.363	3026.01	86.1	83.58	2.4	0.59	1.68e-02	0.0	0.0
3	4.121	0.243	0.351	5.65	0.2	3.13e-03	8.91e-05	22.76	0.6	0.0	0.0
4	4.540	0.220	0.283	1.65	4.69e-02	1.59	4.54e-02	6.10	0.2	0.0	0.0
5	4.692	0.213	0.273	36.65	1.0	224.04	6.4	0.38	1.08e-02	0.0	0.0
6	5.688	0.176	0.237	0.03	7.55e-04	3.68	0.1	0.03	9.22e-04	0.0	0.0
7	5.765	0.173	0.235	0.05	1.39e-03	2.30	6.54e-02	26.28	0.7	0.0	0.0
8	5.931	0.169	0.232	0.09	2.66e-03	13.96	0.4	38.92	1.1	0.0	0.0
9	6.577	0.152	0.222	4.95	0.1	2.81e-04	8.00e-06	22.77	0.6	0.0	0.0
10	6.910	0.145	0.217	1.25	3.55e-02	9.87	0.3	23.97	0.7	0.0	0.0
11	7.859	0.127	0.203	0.46	1.32e-02	246.79	7.0	0.35	9.96e-03	0.0	0.0
12	8.131	0.123	0.199	0.14	3.92e-03	54.36	1.5	15.92	0.5	0.0	0.0
13	8.267	0.121	0.197	4.83	0.1	15.22	0.4	11.86	0.3	0.0	0.0
14	8.755	0.114	0.206	10.46	0.3	0.68	1.95e-02	6.48	0.2	0.0	0.0
15	9.156	0.109	0.214	271.74	7.7	0.01	3.66e-04	4.41e-03	1.26e-04	0.0	0.0
16	9.472	0.106	0.220	10.06	0.3	3.46	9.83e-02	9.41	0.3	0.0	0.0
17	11.036	0.091	0.211	0.17	4.70e-03	37.19	1.1	0.02	6.44e-04	0.0	0.0
18	12.610	0.079	0.190	5.93	0.2	15.02	0.4	0.07	2.08e-03	0.0	0.0
19	12.881	0.078	0.186	2.58	7.34e-02	1.73e-03	4.92e-05	6.13	0.2	0.0	0.0
20	13.206	0.076	0.181	10.88	0.3	0.15	4.20e-03	0.70	1.99e-02	0.0	0.0
21	13.553	0.074	0.177	2.36	6.72e-02	0.10	2.93e-03	0.09	2.55e-03	0.0	0.0
22	15.802	0.063	0.153	5.00	0.1	0.10	2.72e-03	0.04	1.11e-03	0.0	0.0
23	17.290	0.058	0.143	0.94	2.67e-02	3.13	8.91e-02	1.92	5.46e-02	0.0	0.0
24	17.950	0.056	0.140	0.36	1.02e-02	4.89	0.1	0.31	8.85e-03	0.0	0.0
25	19.382	0.052	0.135	3.88	0.1	2.87	8.16e-02	3.15	8.96e-02	0.0	0.0
26	20.136	0.050	0.133	8.21e-03	2.34e-04	0.83	2.37e-02	98.78	2.8	0.0	0.0
27	21.350	0.047	0.129	0.10	2.74e-03	1.37	3.89e-02	250.96	7.1	0.0	0.0
28	23.320	0.043	0.124	0.54	1.55e-02	6.54	0.2	73.08	2.1	0.0	0.0
29	24.232	0.041	0.122	9.34	0.3	1.28	3.64e-02	1.65	4.68e-02	0.0	0.0
30	26.145	0.038	0.120	1.29	3.67e-02	3.09	8.80e-02	190.45	5.4	0.0	0.0
31	29.703	0.034	0.119	0.44	1.26e-02	0.54	1.53e-02	721.58	20.5	0.0	0.0
32	38.193	0.026	0.118	1.06	3.01e-02	3.71	0.1	51.27	1.5	0.0	0.0
33	38.869	0.026	0.117	2.40	6.82e-02	0.76	2.15e-02	425.02	12.1	0.0	0.0
34	43.887	0.023	0.117	0.54	1.54e-02	0.87	2.46e-02	945.06	26.9	0.0	0.0
35	76.176	0.013	0.116	1.55	4.41e-02	5.90	0.2	342.19	9.7	0.0	0.0
36	81.794	0.012	0.116	7.68	0.2	16.70	0.5	39.18	1.1	0.0	0.0
37	85.617	0.012	0.116	20.27	0.6	3.41	9.69e-02	69.34	2.0	0.0	0.0
Risulta				3511.25		3511.06		3407.29			
In percentuale				99.85		99.85		96.90			

CDC	Tipo	Sigla Id	Note
13	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.320 sec.
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	-1.03	0.0	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	-1.03	0.0	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	-1.03	0.0	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	-1.03	0.0	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	-1.03	0.0	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	-1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	-1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	-1.03	0.0	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	-1.03	0.0	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	-1.03	0.0	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	-1.03	0.0	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	-1.03	0.0	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	-1.03	0.0	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	-1.03	0.0	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	-1.03	0.0	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	-1.03	0.0	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	-1.03	0.0	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	-1.03	0.0	7.95	9.57	0.656	0.671	0.207

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
1.50	27.47	12.30	7.51	-1.03	0.0	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	-1.03	0.0	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	-1.03	0.0	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	3.128	0.320	0.357	45.72	1.3	2950.27	83.9	0.60	1.71e-02	0.0	0.0
2	3.409	0.293	0.364	3000.24	85.3	60.77	1.7	0.52	1.47e-02	0.0	0.0
3	4.120	0.243	0.351	10.22	0.3	0.36	1.02e-02	21.93	0.6	0.0	0.0
4	4.321	0.231	0.320	73.64	2.1	48.70	1.4	0.85	2.42e-02	0.0	0.0
5	4.542	0.220	0.283	0.02	4.33e-04	0.99	2.80e-02	6.61	0.2	0.0	0.0
6	5.765	0.173	0.235	0.07	1.86e-03	2.10	5.97e-02	26.13	0.7	0.0	0.0
7	5.928	0.169	0.232	0.05	1.31e-03	11.92	0.3	38.38	1.1	0.0	0.0
8	6.576	0.152	0.222	4.74	0.1	2.30e-03	6.55e-05	22.87	0.7	0.0	0.0
9	6.798	0.147	0.218	0.02	6.24e-04	2.10	5.97e-02	3.13e-03	8.90e-05	0.0	0.0
10	6.916	0.145	0.217	1.42	4.04e-02	5.54	0.2	24.69	0.7	0.0	0.0
11	8.016	0.125	0.201	0.05	1.28e-03	51.88	1.5	6.79	0.2	0.0	0.0
12	8.235	0.121	0.198	3.53	0.1	18.57	0.5	21.02	0.6	0.0	0.0
13	8.458	0.118	0.199	4.65	0.1	260.13	7.4	0.02	7.00e-04	0.0	0.0
14	8.753	0.114	0.206	9.64	0.3	0.76	2.16e-02	6.55	0.2	0.0	0.0
15	9.172	0.109	0.214	272.60	7.8	3.99	0.1	2.37e-03	6.75e-05	0.0	0.0
16	9.472	0.106	0.220	6.72	0.2	4.86	0.1	9.42	0.3	0.0	0.0
17	11.323	0.088	0.207	1.04	2.97e-02	29.49	0.8	1.18e-04	3.35e-06	0.0	0.0
18	11.822	0.085	0.200	0.83	2.37e-02	7.70	0.2	9.36e-03	2.66e-04	0.0	0.0
19	12.286	0.081	0.194	8.48	0.2	0.06	1.67e-03	2.62e-05	0.0	0.0	0.0
20	12.887	0.078	0.186	2.13	6.07e-02	0.05	1.51e-03	6.28	0.2	0.0	0.0
21	13.310	0.075	0.180	7.11	0.2	0.64	1.81e-02	0.72	2.05e-02	0.0	0.0
22	13.832	0.072	0.174	0.08	2.14e-03	0.48	1.37e-02	1.69e-03	4.81e-05	0.0	0.0
23	15.379	0.065	0.157	0.93	2.64e-02	2.68	7.64e-02	0.13	3.66e-03	0.0	0.0
24	15.824	0.063	0.153	6.97	0.2	0.04	1.19e-03	0.13	3.72e-03	0.0	0.0
25	17.200	0.058	0.143	3.44	9.79e-02	3.11	8.86e-02	4.65	0.1	0.0	0.0
26	20.402	0.049	0.132	1.12	3.18e-02	0.35	1.01e-02	85.81	2.4	0.0	0.0
27	21.042	0.048	0.130	1.47	4.17e-02	4.67e-03	1.33e-04	207.66	5.9	0.0	0.0
28	22.165	0.045	0.127	0.65	1.85e-02	2.24	6.37e-02	95.59	2.7	0.0	0.0
29	24.192	0.041	0.122	4.02	0.1	5.26	0.1	18.35	0.5	0.0	0.0
30	25.256	0.040	0.121	5.94	0.2	2.44	6.93e-02	46.58	1.3	0.0	0.0
31	28.419	0.035	0.120	0.15	4.34e-03	0.42	1.19e-02	774.06	22.0	0.0	0.0
32	36.609	0.027	0.118	0.16	4.61e-03	5.00	0.1	180.90	5.1	0.0	0.0
33	39.322	0.025	0.117	3.57	0.1	0.07	1.86e-03	200.50	5.7	0.0	0.0
34	41.576	0.024	0.117	0.42	1.20e-02	0.90	2.55e-02	1040.27	29.6	0.0	0.0
35	70.160	0.014	0.116	0.05	1.49e-03	1.91	5.44e-02	511.11	14.5	0.0	0.0
36	79.885	0.013	0.116	0.62	1.75e-02	24.57	0.7	27.73	0.8	0.0	0.0
37	84.400	0.012	0.116	28.79	0.8	0.44	1.25e-02	2.36	6.71e-02	0.0	0.0
Risulta				3511.28		3510.81		3389.23			
In percentuale				99.85		99.84		96.38			

CDC	Tipo	Sigla Id	Note
14	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.298 sec.
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	0.0	-1.03	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	0.0	-1.03	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	0.0	-1.03	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	0.0	-1.03	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	0.0	-1.03	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	0.0	-1.03	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	0.0	-1.03	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	0.0	-1.03	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	0.0	-1.03	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	0.0	-1.03	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	0.0	-1.03	5.84	12.86	0.928	0.801	0.624

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
5.00	25.24	12.39	7.55	0.0	-1.03	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	0.0	-1.03	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	0.0	-1.03	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	0.0	-1.03	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	0.0	-1.03	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	0.0	-1.03	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	0.0	-1.03	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	0.0	-1.03	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	0.0	-1.03	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	0.0	-1.03	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	3.049	0.328	0.382	241.55	6.9	2621.67	74.6	0.41	1.16e-02	0.0	0.0
2	3.355	0.298	0.414	2710.52	77.1	321.79	9.2	0.69	1.97e-02	0.0	0.0
3	4.122	0.243	0.392	7.51	0.2	0.78	2.21e-02	22.60	0.6	0.0	0.0
4	4.541	0.220	0.314	3.55	0.1	0.22	6.16e-03	6.05	0.2	0.0	0.0
5	4.678	0.214	0.304	163.59	4.7	113.61	3.2	0.70	1.99e-02	0.0	0.0
6	5.765	0.173	0.265	0.08	2.18e-03	2.14	6.09e-02	26.25	0.7	0.0	0.0
7	5.930	0.169	0.262	0.13	3.70e-03	12.87	0.4	38.74	1.1	0.0	0.0
8	6.172	0.162	0.257	0.05	1.52e-03	2.79	7.92e-02	0.02	6.64e-04	0.0	0.0
9	6.581	0.152	0.249	4.65	0.1	0.02	5.71e-04	22.36	0.6	0.0	0.0
10	6.915	0.145	0.243	1.39	3.94e-02	6.89	0.2	24.62	0.7	0.0	0.0
11	7.981	0.125	0.224	0.70	2.00e-02	114.43	3.3	3.78	0.1	0.0	0.0
12	8.201	0.122	0.220	5.01	0.1	74.30	2.1	21.66	0.6	0.0	0.0
13	8.320	0.120	0.218	2.52	7.16e-02	133.48	3.8	2.40	6.83e-02	0.0	0.0
14	8.755	0.114	0.229	28.42	0.8	0.23	6.52e-03	5.92	0.2	0.0	0.0
15	8.909	0.112	0.232	256.53	7.3	0.48	1.36e-02	0.63	1.79e-02	0.0	0.0
16	9.469	0.106	0.244	2.06	5.86e-02	4.75	0.1	9.55	0.3	0.0	0.0
17	11.346	0.088	0.227	0.21	5.84e-03	38.92	1.1	4.00e-03	1.14e-04	0.0	0.0
18	12.353	0.081	0.211	11.16	0.3	10.05	0.3	0.02	6.52e-04	0.0	0.0
19	12.718	0.079	0.205	5.96	0.2	0.12	3.40e-03	2.39	6.81e-02	0.0	0.0
20	13.036	0.077	0.201	1.82	5.17e-02	0.05	1.29e-03	4.56	0.1	0.0	0.0
21	13.754	0.073	0.192	4.89	0.1	0.13	3.73e-03	0.07	1.92e-03	0.0	0.0
22	15.021	0.067	0.177	0.03	9.55e-04	0.70	1.98e-02	0.02	5.19e-04	0.0	0.0
23	15.237	0.066	0.175	6.51	0.2	1.65e-06	0.0	0.02	4.54e-04	0.0	0.0
24	17.088	0.059	0.160	0.50	1.42e-02	3.60	0.1	0.54	1.54e-02	0.0	0.0
25	19.733	0.051	0.149	6.58	0.2	3.16	8.98e-02	35.24	1.0	0.0	0.0
26	20.612	0.049	0.146	0.54	1.55e-02	0.16	4.41e-03	197.68	5.6	0.0	0.0
27	21.433	0.047	0.144	0.29	8.20e-03	2.49	7.09e-02	5.93	0.2	0.0	0.0
28	22.675	0.044	0.140	0.15	4.36e-03	0.23	6.59e-03	231.98	6.6	0.0	0.0
29	24.331	0.041	0.136	6.87	0.2	2.75	7.81e-02	3.76e-04	1.07e-05	0.0	0.0
30	24.850	0.040	0.135	2.25	6.39e-02	6.17	0.2	3.94	0.1	0.0	0.0
31	29.058	0.034	0.134	1.51e-04	4.30e-06	0.03	9.63e-04	852.98	24.3	0.0	0.0
32	37.029	0.027	0.132	4.60	0.1	1.39	3.96e-02	7.61	0.2	0.0	0.0
33	39.908	0.025	0.132	1.09	3.09e-02	4.29	0.1	5.50	0.2	0.0	0.0
34	41.630	0.024	0.131	4.22e-03	1.20e-04	0.06	1.71e-03	1365.94	38.8	0.0	0.0
35	74.105	0.013	0.131	0.05	1.51e-03	0.47	1.32e-02	489.96	13.9	0.0	0.0
36	81.401	0.012	0.131	8.95	0.3	18.10	0.5	7.37	0.2	0.0	0.0
37	83.258	0.012	0.131	20.28	0.6	8.00	0.2	0.60	1.72e-02	0.0	0.0
Risulta				3510.99		3511.30		3398.74			
In percentuale				99.85		99.85		96.65			

CDC	Tipo	Sigla Id	Note
15	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.291 sec.
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	0.0	1.03	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	0.0	1.03	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	0.0	1.03	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	0.0	1.03	5.83	12.92	0.901	0.803	0.622

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
8.60	25.95	12.41	7.70	0.0	1.03	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	0.0	1.03	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	0.0	1.03	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	0.0	1.03	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	0.0	1.03	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	0.0	1.03	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	0.0	1.03	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	0.0	1.03	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	0.0	1.03	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	0.0	1.03	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	0.0	1.03	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	0.0	1.03	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	0.0	1.03	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	0.0	1.03	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	0.0	1.03	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	0.0	1.03	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	0.0	1.03	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	3.066	0.326	0.387	2.41	6.84e-02	2883.23	82.0	0.62	1.77e-02	0.0	0.0
2	3.440	0.291	0.406	3125.96	88.9	1.39	3.94e-02	0.42	1.21e-02	0.0	0.0
3	4.118	0.243	0.393	1.67	4.76e-02	0.92	2.61e-02	22.40	0.6	0.0	0.0
4	4.357	0.230	0.349	2.78	7.92e-02	168.31	4.8	0.31	8.92e-03	0.0	0.0
5	4.543	0.220	0.313	0.37	1.05e-02	2.68	7.63e-02	6.59	0.2	0.0	0.0
6	5.765	0.173	0.265	0.05	1.33e-03	2.22	6.32e-02	26.25	0.7	0.0	0.0
7	5.929	0.169	0.262	0.03	9.27e-04	12.31	0.4	38.52	1.1	0.0	0.0
8	6.167	0.162	0.258	1.89e-05	0.0	2.53	7.19e-02	0.01	3.44e-04	0.0	0.0
9	6.571	0.152	0.249	5.30	0.2	1.71e-03	4.85e-05	23.25	0.7	0.0	0.0
10	6.912	0.145	0.243	1.37	3.89e-02	7.31	0.2	24.18	0.7	0.0	0.0
11	7.983	0.125	0.224	0.01	3.92e-04	112.78	3.2	4.11	0.1	0.0	0.0
12	8.209	0.122	0.220	0.56	1.59e-02	81.35	2.3	21.11	0.6	0.0	0.0
13	8.311	0.120	0.219	5.64	0.2	126.08	3.6	2.73	7.75e-02	0.0	0.0
14	8.747	0.114	0.229	9.70	0.3	1.70	4.85e-02	6.49	0.2	0.0	0.0
15	9.333	0.107	0.241	237.32	6.7	5.52	0.2	0.73	2.09e-02	0.0	0.0
16	9.490	0.105	0.245	47.57	1.4	1.74	4.95e-02	8.56	0.2	0.0	0.0
17	11.285	0.089	0.228	0.03	8.90e-04	44.85	1.3	9.03e-03	2.57e-04	0.0	0.0
18	11.789	0.085	0.220	0.42	1.18e-02	1.09	3.10e-02	2.25e-03	6.39e-05	0.0	0.0
19	12.164	0.082	0.214	5.98	0.2	0.03	8.87e-04	8.17e-03	2.32e-04	0.0	0.0
20	12.912	0.077	0.203	1.23	3.51e-02	5.57e-03	1.58e-04	6.82	0.2	0.0	0.0
21	13.569	0.074	0.194	7.68	0.2	0.43	1.22e-02	0.15	4.13e-03	0.0	0.0
22	15.613	0.064	0.171	2.63	7.48e-02	4.38	0.1	0.57	1.62e-02	0.0	0.0
23	16.248	0.062	0.165	5.40	0.2	1.43	4.06e-02	0.44	1.27e-02	0.0	0.0
24	16.672	0.060	0.162	1.82e-03	5.17e-05	3.48	9.91e-02	0.40	1.13e-02	0.0	0.0
25	17.837	0.056	0.156	0.39	1.12e-02	0.33	9.43e-03	3.67	0.1	0.0	0.0
26	19.484	0.051	0.150	1.53	4.35e-02	0.29	8.33e-03	8.08	0.2	0.0	0.0
27	21.062	0.047	0.145	0.24	6.82e-03	1.55e-05	0.0	356.08	10.1	0.0	0.0
28	22.842	0.044	0.140	2.35	6.69e-02	6.01	0.2	15.57	0.4	0.0	0.0
29	23.915	0.042	0.137	5.79	0.2	4.28	0.1	5.28	0.2	0.0	0.0
30	26.310	0.038	0.134	2.87	8.16e-02	1.32	3.76e-02	189.61	5.4	0.0	0.0
31	28.674	0.035	0.134	0.89	2.54e-02	0.58	1.64e-02	650.99	18.5	0.0	0.0
32	35.930	0.028	0.132	0.59	1.69e-02	4.55	0.1	40.76	1.2	0.0	0.0
33	39.241	0.025	0.132	1.37	3.89e-02	0.09	2.59e-03	917.38	26.1	0.0	0.0
34	44.393	0.023	0.131	2.11	6.01e-02	0.87	2.46e-02	492.58	14.0	0.0	0.0
35	70.860	0.014	0.131	1.32	3.76e-02	1.43	4.06e-02	481.69	13.7	0.0	0.0
36	79.579	0.013	0.131	4.62	0.1	22.09	0.6	6.88	0.2	0.0	0.0
37	85.730	0.012	0.131	22.99	0.7	3.22	9.15e-02	27.84	0.8	0.0	0.0
Risulta				3511.19		3510.84		3391.07			
In percentuale				99.85		99.84		96.44			

CDC	Tipo	Sigla Id	Note
16	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.336 sec.
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	1.03	0.0	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	1.03	0.0	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	1.03	0.0	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	1.03	0.0	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	1.03	0.0	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	1.03	0.0	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	1.03	0.0	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	1.03	0.0	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	1.03	0.0	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	1.03	0.0	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	1.03	0.0	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	1.03	0.0	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	1.03	0.0	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	1.03	0.0	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	1.03	0.0	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	1.03	0.0	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	1.03	0.0	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	1.03	0.0	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	1.03	0.0	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	2.974	0.336	0.360	59.91	1.7	2743.06	78.0	0.47	1.33e-02	0.0	0.0
2	3.422	0.292	0.408	3026.01	86.1	83.58	2.4	0.59	1.68e-02	0.0	0.0
3	4.121	0.243	0.393	5.65	0.2	3.13e-03	8.91e-05	22.76	0.6	0.0	0.0
4	4.540	0.220	0.314	1.65	4.69e-02	1.59	4.54e-02	6.10	0.2	0.0	0.0
5	4.692	0.213	0.303	36.65	1.0	224.04	6.4	0.38	1.08e-02	0.0	0.0
6	5.688	0.176	0.267	0.03	7.55e-04	3.68	0.1	0.03	9.22e-04	0.0	0.0
7	5.765	0.173	0.265	0.05	1.39e-03	2.30	6.54e-02	26.28	0.7	0.0	0.0
8	5.931	0.169	0.262	0.09	2.66e-03	13.96	0.4	38.92	1.1	0.0	0.0
9	6.577	0.152	0.249	4.95	0.1	2.81e-04	8.00e-06	22.77	0.6	0.0	0.0
10	6.910	0.145	0.243	1.25	3.55e-02	9.87	0.3	23.97	0.7	0.0	0.0
11	7.859	0.127	0.226	0.46	1.32e-02	246.79	7.0	0.35	9.96e-03	0.0	0.0
12	8.131	0.123	0.221	0.14	3.92e-03	54.36	1.5	15.92	0.5	0.0	0.0
13	8.267	0.121	0.219	4.83	0.1	15.22	0.4	11.86	0.3	0.0	0.0
14	8.755	0.114	0.229	10.46	0.3	0.68	1.95e-02	6.48	0.2	0.0	0.0
15	9.156	0.109	0.238	271.74	7.7	0.01	3.66e-04	4.41e-03	1.26e-04	0.0	0.0
16	9.472	0.106	0.244	10.06	0.3	3.46	9.83e-02	9.41	0.3	0.0	0.0
17	11.036	0.091	0.233	0.17	4.70e-03	37.19	1.1	0.02	6.44e-04	0.0	0.0
18	12.610	0.079	0.207	5.93	0.2	15.02	0.4	0.07	2.08e-03	0.0	0.0
19	12.881	0.078	0.203	2.58	7.34e-02	1.73e-03	4.92e-05	6.13	0.2	0.0	0.0
20	13.206	0.076	0.199	10.88	0.3	0.15	4.20e-03	0.70	1.99e-02	0.0	0.0
21	13.553	0.074	0.194	2.36	6.72e-02	0.10	2.93e-03	0.09	2.55e-03	0.0	0.0
22	15.802	0.063	0.169	5.00	0.1	0.10	2.72e-03	0.04	1.11e-03	0.0	0.0
23	17.290	0.058	0.159	0.94	2.67e-02	3.13	8.91e-02	1.92	5.46e-02	0.0	0.0
24	17.950	0.056	0.156	0.36	1.02e-02	4.89	0.1	0.31	8.85e-03	0.0	0.0
25	19.382	0.052	0.150	3.88	0.1	2.87	8.16e-02	3.15	8.96e-02	0.0	0.0
26	20.136	0.050	0.148	8.21e-03	2.34e-04	0.83	2.37e-02	98.78	2.8	0.0	0.0
27	21.350	0.047	0.144	0.10	2.74e-03	1.37	3.89e-02	250.96	7.1	0.0	0.0
28	23.320	0.043	0.139	0.54	1.55e-02	6.54	0.2	73.08	2.1	0.0	0.0
29	24.232	0.041	0.136	9.34	0.3	1.28	3.64e-02	1.65	4.68e-02	0.0	0.0
30	26.145	0.038	0.134	1.29	3.67e-02	3.09	8.80e-02	190.45	5.4	0.0	0.0
31	29.703	0.034	0.133	0.44	1.26e-02	0.54	1.53e-02	721.58	20.5	0.0	0.0
32	38.193	0.026	0.132	1.06	3.01e-02	3.71	0.1	51.27	1.5	0.0	0.0
33	38.869	0.026	0.132	2.40	6.82e-02	0.76	2.15e-02	425.02	12.1	0.0	0.0
34	43.887	0.023	0.131	0.54	1.54e-02	0.87	2.46e-02	945.06	26.9	0.0	0.0
35	76.176	0.013	0.131	1.55	4.41e-02	5.90	0.2	342.19	9.7	0.0	0.0
36	81.794	0.012	0.131	7.68	0.2	16.70	0.5	39.18	1.1	0.0	0.0
37	85.617	0.012	0.131	20.27	0.6	3.41	9.69e-02	69.34	2.0	0.0	0.0
Risulta				3511.25		3511.06		3407.29			
In percentuale				99.85		99.85		96.90			

CDC	Tipo	Sigla Id	Note
17	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00

CDC	Tipo	Sigla Id	Note
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.320 sec.
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	-1.03	0.0	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	-1.03	0.0	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	-1.03	0.0	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	-1.03	0.0	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	-1.03	0.0	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	-1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	-1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	-1.03	0.0	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	-1.03	0.0	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	-1.03	0.0	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	-1.03	0.0	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	-1.03	0.0	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	-1.03	0.0	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	-1.03	0.0	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	-1.03	0.0	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	-1.03	0.0	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	-1.03	0.0	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	-1.03	0.0	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	-1.03	0.0	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	-1.03	0.0	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	-1.03	0.0	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	3.128	0.320	0.404	45.72	1.3	2950.27	83.9	0.60	1.71e-02	0.0	0.0
2	3.409	0.293	0.409	3000.24	85.3	60.77	1.7	0.52	1.47e-02	0.0	0.0
3	4.120	0.243	0.393	10.22	0.3	0.36	1.02e-02	21.93	0.6	0.0	0.0
4	4.321	0.231	0.356	73.64	2.1	48.70	1.4	0.85	2.42e-02	0.0	0.0
5	4.542	0.220	0.313	0.02	4.33e-04	0.99	2.80e-02	6.61	0.2	0.0	0.0
6	5.765	0.173	0.265	0.07	1.86e-03	2.10	5.97e-02	26.13	0.7	0.0	0.0
7	5.928	0.169	0.262	0.05	1.31e-03	11.92	0.3	38.38	1.1	0.0	0.0
8	6.576	0.152	0.249	4.74	0.1	2.30e-03	6.55e-05	22.87	0.7	0.0	0.0
9	6.798	0.147	0.245	0.02	6.24e-04	2.10	5.97e-02	3.13e-03	8.90e-05	0.0	0.0
10	6.916	0.145	0.243	1.42	4.04e-02	5.54	0.2	24.69	0.7	0.0	0.0
11	8.016	0.125	0.223	0.05	1.28e-03	51.88	1.5	6.79	0.2	0.0	0.0
12	8.235	0.121	0.220	3.53	0.1	18.57	0.5	21.02	0.6	0.0	0.0
13	8.458	0.118	0.221	4.65	0.1	260.13	7.4	0.02	7.00e-04	0.0	0.0
14	8.753	0.114	0.229	9.64	0.3	0.76	2.16e-02	6.55	0.2	0.0	0.0
15	9.172	0.109	0.238	272.60	7.8	3.99	0.1	2.37e-03	6.75e-05	0.0	0.0
16	9.472	0.106	0.244	6.72	0.2	4.86	0.1	9.42	0.3	0.0	0.0
17	11.323	0.088	0.228	1.04	2.97e-02	29.49	0.8	1.18e-04	3.35e-06	0.0	0.0
18	11.822	0.085	0.219	0.83	2.37e-02	7.70	0.2	9.36e-03	2.66e-04	0.0	0.0
19	12.286	0.081	0.212	8.48	0.2	0.06	1.67e-03	2.62e-05	0.0	0.0	0.0
20	12.887	0.078	0.203	2.13	6.07e-02	0.05	1.51e-03	6.28	0.2	0.0	0.0
21	13.310	0.075	0.197	7.11	0.2	0.64	1.81e-02	0.72	2.05e-02	0.0	0.0
22	13.832	0.072	0.191	0.08	2.14e-03	0.48	1.37e-02	1.69e-03	4.81e-05	0.0	0.0
23	15.379	0.065	0.174	0.93	2.64e-02	2.68	7.64e-02	0.13	3.66e-03	0.0	0.0
24	15.824	0.063	0.169	6.97	0.2	0.04	1.19e-03	0.13	3.72e-03	0.0	0.0
25	17.200	0.058	0.159	3.44	9.79e-02	3.11	8.86e-02	4.65	0.1	0.0	0.0
26	20.402	0.049	0.147	1.12	3.18e-02	0.35	1.01e-02	85.81	2.4	0.0	0.0
27	21.042	0.048	0.145	1.47	4.17e-02	4.67e-03	1.33e-04	207.66	5.9	0.0	0.0
28	22.165	0.045	0.142	0.65	1.85e-02	2.24	6.37e-02	95.59	2.7	0.0	0.0
29	24.192	0.041	0.137	4.02	0.1	5.26	0.1	18.35	0.5	0.0	0.0
30	25.256	0.040	0.135	5.94	0.2	2.44	6.93e-02	46.58	1.3	0.0	0.0
31	28.419	0.035	0.134	0.15	4.34e-03	0.42	1.19e-02	774.06	22.0	0.0	0.0
32	36.609	0.027	0.132	0.16	4.61e-03	5.00	0.1	180.90	5.1	0.0	0.0
33	39.322	0.025	0.132	3.57	0.1	0.07	1.86e-03	200.50	5.7	0.0	0.0
34	41.576	0.024	0.131	0.42	1.20e-02	0.90	2.55e-02	1040.27	29.6	0.0	0.0
35	70.160	0.014	0.131	0.05	1.49e-03	1.91	5.44e-02	511.11	14.5	0.0	0.0
36	79.885	0.013	0.131	0.62	1.75e-02	24.57	0.7	27.73	0.8	0.0	0.0
37	84.400	0.012	0.131	28.79	0.8	0.44	1.25e-02	2.36	6.71e-02	0.0	0.0
Risulta				3511.28		3510.81		3389.23			
In				99.85		99.84		96.38			

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
percentuale											

CDC	Tipo	Sigla Id	Note
18	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.298 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	0.0	-1.03	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	0.0	-1.03	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	0.0	-1.03	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	0.0	-1.03	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	0.0	-1.03	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	0.0	-1.03	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	0.0	-1.03	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	0.0	-1.03	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	0.0	-1.03	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	0.0	-1.03	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	0.0	-1.03	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	0.0	-1.03	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	0.0	-1.03	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	0.0	-1.03	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	0.0	-1.03	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	0.0	-1.03	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	0.0	-1.03	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	0.0	-1.03	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	0.0	-1.03	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	0.0	-1.03	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	0.0	-1.03	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	3.049	0.328	0.395	241.55	6.9	2621.67	74.6	0.41	1.16e-02	0.0	0.0
2	3.355	0.298	0.406	2710.52	77.1	321.79	9.2	0.69	1.97e-02	0.0	0.0
3	4.122	0.243	0.348	7.51	0.2	0.78	2.21e-02	22.60	0.6	0.0	0.0
4	4.541	0.220	0.278	3.55	0.1	0.22	6.16e-03	6.05	0.2	0.0	0.0
5	4.678	0.214	0.275	163.59	4.7	113.61	3.2	0.70	1.99e-02	0.0	0.0
6	5.765	0.173	0.259	0.08	2.18e-03	2.14	6.09e-02	26.25	0.7	0.0	0.0
7	5.930	0.169	0.254	0.13	3.70e-03	12.87	0.4	38.74	1.1	0.0	0.0
8	6.172	0.162	0.248	0.05	1.52e-03	2.79	7.92e-02	0.02	6.64e-04	0.0	0.0
9	6.581	0.152	0.236	4.65	0.1	0.02	5.71e-04	22.36	0.6	0.0	0.0
10	6.915	0.145	0.228	1.39	3.94e-02	6.89	0.2	24.62	0.7	0.0	0.0
11	7.981	0.125	0.207	0.70	2.00e-02	114.43	3.3	3.78	0.1	0.0	0.0
12	8.201	0.122	0.203	5.01	0.1	74.30	2.1	21.66	0.6	0.0	0.0
13	8.320	0.120	0.201	2.52	7.16e-02	133.48	3.8	2.40	6.83e-02	0.0	0.0
14	8.755	0.114	0.203	28.42	0.8	0.23	6.52e-03	5.92	0.2	0.0	0.0
15	8.909	0.112	0.204	256.53	7.3	0.48	1.36e-02	0.63	1.79e-02	0.0	0.0
16	9.469	0.106	0.207	2.06	5.86e-02	4.75	0.1	9.55	0.3	0.0	0.0
17	11.346	0.088	0.189	0.21	5.84e-03	38.92	1.1	4.00e-03	1.14e-04	0.0	0.0
18	12.353	0.081	0.178	11.16	0.3	10.05	0.3	0.02	6.52e-04	0.0	0.0
19	12.718	0.079	0.174	5.96	0.2	0.12	3.40e-03	2.39	6.81e-02	0.0	0.0
20	13.036	0.077	0.171	1.82	5.17e-02	0.05	1.29e-03	4.56	0.1	0.0	0.0
21	13.754	0.073	0.165	4.89	0.1	0.13	3.73e-03	0.07	1.92e-03	0.0	0.0
22	15.021	0.067	0.155	0.03	9.55e-04	0.70	1.98e-02	0.02	5.19e-04	0.0	0.0
23	15.237	0.066	0.154	6.51	0.2	1.65e-06	0.0	0.02	4.54e-04	0.0	0.0
24	17.088	0.059	0.144	0.50	1.42e-02	3.60	0.1	0.54	1.54e-02	0.0	0.0
25	19.733	0.051	0.138	6.58	0.2	3.16	8.98e-02	35.24	1.0	0.0	0.0
26	20.612	0.049	0.136	0.54	1.55e-02	0.16	4.41e-03	197.68	5.6	0.0	0.0
27	21.433	0.047	0.135	0.29	8.20e-03	2.49	7.09e-02	5.93	0.2	0.0	0.0
28	22.675	0.044	0.133	0.15	4.36e-03	0.23	6.59e-03	231.98	6.6	0.0	0.0
29	24.331	0.041	0.130	6.87	0.2	2.75	7.81e-02	3.76e-04	1.07e-05	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
30	24.850	0.040	0.130	2.25	6.39e-02	6.17	0.2	3.94	0.1	0.0	0.0
31	29.058	0.034	0.129	1.51e-04	4.30e-06	0.03	9.63e-04	852.98	24.3	0.0	0.0
32	37.029	0.027	0.128	4.60	0.1	1.39	3.96e-02	7.61	0.2	0.0	0.0
33	39.908	0.025	0.128	1.09	3.09e-02	4.29	0.1	5.50	0.2	0.0	0.0
34	41.630	0.024	0.128	4.22e-03	1.20e-04	0.06	1.71e-03	1365.94	38.8	0.0	0.0
35	74.105	0.013	0.127	0.05	1.51e-03	0.47	1.32e-02	489.96	13.9	0.0	0.0
36	81.401	0.012	0.127	8.95	0.3	18.10	0.5	7.37	0.2	0.0	0.0
37	83.258	0.012	0.127	20.28	0.6	8.00	0.2	0.60	1.72e-02	0.0	0.0
Risulta				3510.99		3511.30		3398.74			
In percentuale				99.85		99.85		96.65			

CDC	Tipo	Sigla Id	Note
19	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.291 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	0.0	1.03	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	0.0	1.03	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	0.0	1.03	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	0.0	1.03	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	0.0	1.03	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	0.0	1.03	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	0.0	1.03	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	0.0	1.03	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	0.0	1.03	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	0.0	1.03	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	0.0	1.03	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	0.0	1.03	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	0.0	1.03	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	0.0	1.03	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	0.0	1.03	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	0.0	1.03	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	0.0	1.03	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	0.0	1.03	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	0.0	1.03	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	0.0	1.03	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	0.0	1.03	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	3.066	0.326	0.400	2.41	6.84e-02	2883.23	82.0	0.62	1.77e-02	0.0	0.0
2	3.440	0.291	0.400	3125.96	88.9	1.39	3.94e-02	0.42	1.21e-02	0.0	0.0
3	4.118	0.243	0.348	1.67	4.76e-02	0.92	2.61e-02	22.40	0.6	0.0	0.0
4	4.357	0.230	0.307	2.78	7.92e-02	168.31	4.8	0.31	8.92e-03	0.0	0.0
5	4.543	0.220	0.277	0.37	1.05e-02	2.68	7.63e-02	6.59	0.2	0.0	0.0
6	5.765	0.173	0.259	0.05	1.33e-03	2.22	6.32e-02	26.25	0.7	0.0	0.0
7	5.929	0.169	0.254	0.03	9.27e-04	12.31	0.4	38.52	1.1	0.0	0.0
8	6.167	0.162	0.248	1.89e-05	0.0	2.53	7.19e-02	0.01	3.44e-04	0.0	0.0
9	6.571	0.152	0.237	5.30	0.2	1.71e-03	4.85e-05	23.25	0.7	0.0	0.0
10	6.912	0.145	0.228	1.37	3.89e-02	7.31	0.2	24.18	0.7	0.0	0.0
11	7.983	0.125	0.207	0.01	3.92e-04	112.78	3.2	4.11	0.1	0.0	0.0
12	8.209	0.122	0.203	0.56	1.59e-02	81.35	2.3	21.11	0.6	0.0	0.0
13	8.311	0.120	0.202	5.64	0.2	126.08	3.6	2.73	7.75e-02	0.0	0.0
14	8.747	0.114	0.203	9.70	0.3	1.70	4.85e-02	6.49	0.2	0.0	0.0
15	9.333	0.107	0.206	237.32	6.7	5.52	0.2	0.73	2.09e-02	0.0	0.0
16	9.490	0.105	0.207	47.57	1.4	1.74	4.95e-02	8.56	0.2	0.0	0.0
17	11.285	0.089	0.190	0.03	8.90e-04	44.85	1.3	9.03e-03	2.57e-04	0.0	0.0
18	11.789	0.085	0.184	0.42	1.18e-02	1.09	3.10e-02	2.25e-03	6.39e-05	0.0	0.0
19	12.164	0.082	0.180	5.98	0.2	0.03	8.87e-04	8.17e-03	2.32e-04	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
20	12.912	0.077	0.172	1.23	3.51e-02	5.57e-03	1.58e-04	6.82	0.2	0.0	0.0
21	13.569	0.074	0.166	7.68	0.2	0.43	1.22e-02	0.15	4.13e-03	0.0	0.0
22	15.613	0.064	0.151	2.63	7.48e-02	4.38	0.1	0.57	1.62e-02	0.0	0.0
23	16.248	0.062	0.148	5.40	0.2	1.43	4.06e-02	0.44	1.27e-02	0.0	0.0
24	16.672	0.060	0.145	1.82e-03	5.17e-05	3.48	9.91e-02	0.40	1.13e-02	0.0	0.0
25	17.837	0.056	0.142	0.39	1.12e-02	0.33	9.43e-03	3.67	0.1	0.0	0.0
26	19.484	0.051	0.138	1.53	4.35e-02	0.29	8.33e-03	8.08	0.2	0.0	0.0
27	21.062	0.047	0.135	0.24	6.82e-03	1.55e-05	0.0	356.08	10.1	0.0	0.0
28	22.842	0.044	0.133	2.35	6.69e-02	6.01	0.2	15.57	0.4	0.0	0.0
29	23.915	0.042	0.131	5.79	0.2	4.28	0.1	5.28	0.2	0.0	0.0
30	26.310	0.038	0.129	2.87	8.16e-02	1.32	3.76e-02	189.61	5.4	0.0	0.0
31	28.674	0.035	0.129	0.89	2.54e-02	0.58	1.64e-02	650.99	18.5	0.0	0.0
32	35.930	0.028	0.128	0.59	1.69e-02	4.55	0.1	40.76	1.2	0.0	0.0
33	39.241	0.025	0.128	1.37	3.89e-02	0.09	2.59e-03	917.38	26.1	0.0	0.0
34	44.393	0.023	0.128	2.11	6.01e-02	0.87	2.46e-02	492.58	14.0	0.0	0.0
35	70.860	0.014	0.127	1.32	3.76e-02	1.43	4.06e-02	481.69	13.7	0.0	0.0
36	79.579	0.013	0.127	4.62	0.1	22.09	0.6	6.88	0.2	0.0	0.0
37	85.730	0.012	0.127	22.99	0.7	3.22	9.15e-02	27.84	0.8	0.0	0.0
Risulta				3511.19		3510.84		3391.07			
In percentuale				99.85		99.84		96.44			

CDC	Tipo	Sigla Id	Note
20	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.336 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	1.03	0.0	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	1.03	0.0	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	1.03	0.0	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	1.03	0.0	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	1.03	0.0	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	1.03	0.0	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	1.03	0.0	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	1.03	0.0	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	1.03	0.0	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	1.03	0.0	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	1.03	0.0	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	1.03	0.0	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	1.03	0.0	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	1.03	0.0	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	1.03	0.0	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	1.03	0.0	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	1.03	0.0	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	1.03	0.0	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	1.03	0.0	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	2.974	0.336	0.375	59.91	1.7	2743.06	78.0	0.47	1.33e-02	0.0	0.0
2	3.422	0.292	0.401	3026.01	86.1	83.58	2.4	0.59	1.68e-02	0.0	0.0
3	4.121	0.243	0.348	5.65	0.2	3.13e-03	8.91e-05	22.76	0.6	0.0	0.0
4	4.540	0.220	0.278	1.65	4.69e-02	1.59	4.54e-02	6.10	0.2	0.0	0.0
5	4.692	0.213	0.274	36.65	1.0	224.04	6.4	0.38	1.08e-02	0.0	0.0
6	5.688	0.176	0.261	0.03	7.55e-04	3.68	0.1	0.03	9.22e-04	0.0	0.0
7	5.765	0.173	0.259	0.05	1.39e-03	2.30	6.54e-02	26.28	0.7	0.0	0.0
8	5.931	0.169	0.254	0.09	2.66e-03	13.96	0.4	38.92	1.1	0.0	0.0
9	6.577	0.152	0.236	4.95	0.1	2.81e-04	8.00e-06	22.77	0.6	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
10	6.910	0.145	0.228	1.25	3.55e-02	9.87	0.3	23.97	0.7	0.0	0.0
11	7.859	0.127	0.209	0.46	1.32e-02	246.79	7.0	0.35	9.96e-03	0.0	0.0
12	8.131	0.123	0.204	0.14	3.92e-03	54.36	1.5	15.92	0.5	0.0	0.0
13	8.267	0.121	0.202	4.83	0.1	15.22	0.4	11.86	0.3	0.0	0.0
14	8.755	0.114	0.203	10.46	0.3	0.68	1.95e-02	6.48	0.2	0.0	0.0
15	9.156	0.109	0.205	271.74	7.7	0.01	3.66e-04	4.41e-03	1.26e-04	0.0	0.0
16	9.472	0.106	0.207	10.06	0.3	3.46	9.83e-02	9.41	0.3	0.0	0.0
17	11.036	0.091	0.193	0.17	4.70e-03	37.19	1.1	0.02	6.44e-04	0.0	0.0
18	12.610	0.079	0.175	5.93	0.2	15.02	0.4	0.07	2.08e-03	0.0	0.0
19	12.881	0.078	0.172	2.58	7.34e-02	1.73e-03	4.92e-05	6.13	0.2	0.0	0.0
20	13.206	0.076	0.169	10.88	0.3	0.15	4.20e-03	0.70	1.99e-02	0.0	0.0
21	13.553	0.074	0.166	2.36	6.72e-02	0.10	2.93e-03	0.09	2.55e-03	0.0	0.0
22	15.802	0.063	0.150	5.00	0.1	0.10	2.72e-03	0.04	1.11e-03	0.0	0.0
23	17.290	0.058	0.144	0.94	2.67e-02	3.13	8.91e-02	1.92	5.46e-02	0.0	0.0
24	17.950	0.056	0.142	0.36	1.02e-02	4.89	0.1	0.31	8.85e-03	0.0	0.0
25	19.382	0.052	0.139	3.88	0.1	2.87	8.16e-02	3.15	8.96e-02	0.0	0.0
26	20.136	0.050	0.137	8.21e-03	2.34e-04	0.83	2.37e-02	98.78	2.8	0.0	0.0
27	21.350	0.047	0.135	0.10	2.74e-03	1.37	3.89e-02	250.96	7.1	0.0	0.0
28	23.320	0.043	0.132	0.54	1.55e-02	6.54	0.2	73.08	2.1	0.0	0.0
29	24.232	0.041	0.131	9.34	0.3	1.28	3.64e-02	1.65	4.68e-02	0.0	0.0
30	26.145	0.038	0.129	1.29	3.67e-02	3.09	8.80e-02	190.45	5.4	0.0	0.0
31	29.703	0.034	0.129	0.44	1.26e-02	0.54	1.53e-02	721.58	20.5	0.0	0.0
32	38.193	0.026	0.128	1.06	3.01e-02	3.71	0.1	51.27	1.5	0.0	0.0
33	38.869	0.026	0.128	2.40	6.82e-02	0.76	2.15e-02	425.02	12.1	0.0	0.0
34	43.887	0.023	0.128	0.54	1.54e-02	0.87	2.46e-02	945.06	26.9	0.0	0.0
35	76.176	0.013	0.127	1.55	4.41e-02	5.90	0.2	342.19	9.7	0.0	0.0
36	81.794	0.012	0.127	7.68	0.2	16.70	0.5	39.18	1.1	0.0	0.0
37	85.617	0.012	0.127	20.27	0.6	3.41	9.69e-02	69.34	2.0	0.0	0.0
Risulta				3511.25		3511.06		3407.29			
In percentuale				99.85		99.85		96.90			

CDC	Tipo	Sigla Id	Note
21	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.320 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	-1.03	0.0	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	-1.03	0.0	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	-1.03	0.0	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	-1.03	0.0	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	-1.03	0.0	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	-1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	-1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	-1.03	0.0	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	-1.03	0.0	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	-1.03	0.0	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	-1.03	0.0	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	-1.03	0.0	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	-1.03	0.0	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	-1.03	0.0	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	-1.03	0.0	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	-1.03	0.0	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	-1.03	0.0	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	-1.03	0.0	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	-1.03	0.0	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	-1.03	0.0	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	-1.03	0.0	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	3.128	0.320	0.415	45.72	1.3	2950.27	83.9	0.60	1.71e-02	0.0	0.0
2	3.409	0.293	0.402	3000.24	85.3	60.77	1.7	0.52	1.47e-02	0.0	0.0
3	4.120	0.243	0.348	10.22	0.3	0.36	1.02e-02	21.93	0.6	0.0	0.0
4	4.321	0.231	0.313	73.64	2.1	48.70	1.4	0.85	2.42e-02	0.0	0.0
5	4.542	0.220	0.277	0.02	4.33e-04	0.99	2.80e-02	6.61	0.2	0.0	0.0
6	5.765	0.173	0.259	0.07	1.86e-03	2.10	5.97e-02	26.13	0.7	0.0	0.0
7	5.928	0.169	0.255	0.05	1.31e-03	11.92	0.3	38.38	1.1	0.0	0.0
8	6.576	0.152	0.236	4.74	0.1	2.30e-03	6.55e-05	22.87	0.7	0.0	0.0
9	6.798	0.147	0.231	0.02	6.24e-04	2.10	5.97e-02	3.13e-03	8.90e-05	0.0	0.0
10	6.916	0.145	0.228	1.42	4.04e-02	5.54	0.2	24.69	0.7	0.0	0.0
11	8.016	0.125	0.206	0.05	1.28e-03	51.88	1.5	6.79	0.2	0.0	0.0
12	8.235	0.121	0.203	3.53	0.1	18.57	0.5	21.02	0.6	0.0	0.0
13	8.458	0.118	0.202	4.65	0.1	260.13	7.4	0.02	7.00e-04	0.0	0.0
14	8.753	0.114	0.203	9.64	0.3	0.76	2.16e-02	6.55	0.2	0.0	0.0
15	9.172	0.109	0.205	272.60	7.8	3.99	0.1	2.37e-03	6.75e-05	0.0	0.0
16	9.472	0.106	0.207	6.72	0.2	4.86	0.1	9.42	0.3	0.0	0.0
17	11.323	0.088	0.190	1.04	2.97e-02	29.49	0.8	1.18e-04	3.35e-06	0.0	0.0
18	11.822	0.085	0.184	0.83	2.37e-02	7.70	0.2	9.36e-03	2.66e-04	0.0	0.0
19	12.286	0.081	0.178	8.48	0.2	0.06	1.67e-03	2.62e-05	0.0	0.0	0.0
20	12.887	0.078	0.172	2.13	6.07e-02	0.05	1.51e-03	6.28	0.2	0.0	0.0
21	13.310	0.075	0.169	7.11	0.2	0.64	1.81e-02	0.72	2.05e-02	0.0	0.0
22	13.832	0.072	0.164	0.08	2.14e-03	0.48	1.37e-02	1.69e-03	4.81e-05	0.0	0.0
23	15.379	0.065	0.153	0.93	2.64e-02	2.68	7.64e-02	0.13	3.66e-03	0.0	0.0
24	15.824	0.063	0.150	6.97	0.2	0.04	1.19e-03	0.13	3.72e-03	0.0	0.0
25	17.200	0.058	0.144	3.44	9.79e-02	3.11	8.86e-02	4.65	0.1	0.0	0.0
26	20.402	0.049	0.137	1.12	3.18e-02	0.35	1.01e-02	85.81	2.4	0.0	0.0
27	21.042	0.048	0.135	1.47	4.17e-02	4.67e-03	1.33e-04	207.66	5.9	0.0	0.0
28	22.165	0.045	0.134	0.65	1.85e-02	2.24	6.37e-02	95.59	2.7	0.0	0.0
29	24.192	0.041	0.131	4.02	0.1	5.26	0.1	18.35	0.5	0.0	0.0
30	25.256	0.040	0.130	5.94	0.2	2.44	6.93e-02	46.58	1.3	0.0	0.0
31	28.419	0.035	0.129	0.15	4.34e-03	0.42	1.19e-02	774.06	22.0	0.0	0.0
32	36.609	0.027	0.128	0.16	4.61e-03	5.00	0.1	180.90	5.1	0.0	0.0
33	39.322	0.025	0.128	3.57	0.1	0.07	1.86e-03	200.50	5.7	0.0	0.0
34	41.576	0.024	0.128	0.42	1.20e-02	0.90	2.55e-02	1040.27	29.6	0.0	0.0
35	70.160	0.014	0.127	0.05	1.49e-03	1.91	5.44e-02	511.11	14.5	0.0	0.0
36	79.885	0.013	0.127	0.62	1.75e-02	24.57	0.7	27.73	0.8	0.0	0.0
37	84.400	0.012	0.127	28.79	0.8	0.44	1.25e-02	2.36	6.71e-02	0.0	0.0
Risulta				3511.28		3510.81		3389.23			
In percentuale				99.85		99.84		96.38			

CDC	Tipo	Sigla Id	Note
22	Edk	CDC=Ed (dinamico SL CO) alfa=0.0 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.298 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	0.0	-1.03	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	0.0	-1.03	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	0.0	-1.03	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	0.0	-1.03	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	0.0	-1.03	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	0.0	-1.03	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	0.0	-1.03	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	0.0	-1.03	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	0.0	-1.03	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	0.0	-1.03	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	0.0	-1.03	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	0.0	-1.03	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	0.0	-1.03	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	0.0	-1.03	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	0.0	-1.03	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	0.0	-1.03	7.97	9.58	0.678	0.616	0.216

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
2.50	26.85	12.38	7.70	0.0	-1.03	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	0.0	-1.03	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	0.0	-1.03	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	0.0	-1.03	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	0.0	-1.03	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	3.049	0.328	0.473	241.55	6.9	2621.67	74.6	0.41	1.16e-02	0.0	0.0
2	3.355	0.298	0.474	2710.52	77.1	321.79	9.2	0.69	1.97e-02	0.0	0.0
3	4.122	0.243	0.386	7.51	0.2	0.78	2.21e-02	22.60	0.6	0.0	0.0
4	4.541	0.220	0.317	3.55	0.1	0.22	6.16e-03	6.05	0.2	0.0	0.0
5	4.678	0.214	0.315	163.59	4.7	113.61	3.2	0.70	1.99e-02	0.0	0.0
6	5.765	0.173	0.303	0.08	2.18e-03	2.14	6.09e-02	26.25	0.7	0.0	0.0
7	5.930	0.169	0.297	0.13	3.70e-03	12.87	0.4	38.74	1.1	0.0	0.0
8	6.172	0.162	0.289	0.05	1.52e-03	2.79	7.92e-02	0.02	6.64e-04	0.0	0.0
9	6.581	0.152	0.276	4.65	0.1	0.02	5.71e-04	22.36	0.6	0.0	0.0
10	6.915	0.145	0.267	1.39	3.94e-02	6.89	0.2	24.62	0.7	0.0	0.0
11	7.981	0.125	0.243	0.70	2.00e-02	114.43	3.3	3.78	0.1	0.0	0.0
12	8.201	0.122	0.239	5.01	0.1	74.30	2.1	21.66	0.6	0.0	0.0
13	8.320	0.120	0.237	2.52	7.16e-02	133.48	3.8	2.40	6.83e-02	0.0	0.0
14	8.755	0.114	0.236	28.42	0.8	0.23	6.52e-03	5.92	0.2	0.0	0.0
15	8.909	0.112	0.235	256.53	7.3	0.48	1.36e-02	0.63	1.79e-02	0.0	0.0
16	9.469	0.106	0.234	2.06	5.86e-02	4.75	0.1	9.55	0.3	0.0	0.0
17	11.346	0.088	0.214	0.21	5.84e-03	38.92	1.1	4.00e-03	1.14e-04	0.0	0.0
18	12.353	0.081	0.202	11.16	0.3	10.05	0.3	0.02	6.52e-04	0.0	0.0
19	12.718	0.079	0.198	5.96	0.2	0.12	3.40e-03	2.39	6.81e-02	0.0	0.0
20	13.036	0.077	0.195	1.82	5.17e-02	0.05	1.29e-03	4.56	0.1	0.0	0.0
21	13.754	0.073	0.189	4.89	0.1	0.13	3.73e-03	0.07	1.92e-03	0.0	0.0
22	15.021	0.067	0.179	0.03	9.55e-04	0.70	1.98e-02	0.02	5.19e-04	0.0	0.0
23	15.237	0.066	0.178	6.51	0.2	1.65e-06	0.0	0.02	4.54e-04	0.0	0.0
24	17.088	0.059	0.168	0.50	1.42e-02	3.60	0.1	0.54	1.54e-02	0.0	0.0
25	19.733	0.051	0.162	6.58	0.2	3.16	8.98e-02	35.24	1.0	0.0	0.0
26	20.612	0.049	0.160	0.54	1.55e-02	0.16	4.41e-03	197.68	5.6	0.0	0.0
27	21.433	0.047	0.159	0.29	8.20e-03	2.49	7.09e-02	5.93	0.2	0.0	0.0
28	22.675	0.044	0.157	0.15	4.36e-03	0.23	6.59e-03	231.98	6.6	0.0	0.0
29	24.331	0.041	0.155	6.87	0.2	2.75	7.81e-02	3.76e-04	1.07e-05	0.0	0.0
30	24.850	0.040	0.154	2.25	6.39e-02	6.17	0.2	3.94	0.1	0.0	0.0
31	29.058	0.034	0.153	1.51e-04	4.30e-06	0.03	9.63e-04	852.98	24.3	0.0	0.0
32	37.029	0.027	0.152	4.60	0.1	1.39	3.96e-02	7.61	0.2	0.0	0.0
33	39.908	0.025	0.152	1.09	3.09e-02	4.29	0.1	5.50	0.2	0.0	0.0
34	41.630	0.024	0.152	4.22e-03	1.20e-04	0.06	1.71e-03	1365.94	38.8	0.0	0.0
35	74.105	0.013	0.152	0.05	1.51e-03	0.47	1.32e-02	489.96	13.9	0.0	0.0
36	81.401	0.012	0.152	8.95	0.3	18.10	0.5	7.37	0.2	0.0	0.0
37	83.258	0.012	0.152	20.28	0.6	8.00	0.2	0.60	1.72e-02	0.0	0.0
Risulta				3510.99		3511.30		3398.74			
In percentuale				99.85		99.85		96.65			

CDC	Tipo	Sigla Id	Note
23	Edk	CDC=Ed (dinamico SL CO) alfa=0.0 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.291 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	0.0	1.03	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	0.0	1.03	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	0.0	1.03	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	0.0	1.03	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	0.0	1.03	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	0.0	1.03	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	0.0	1.03	5.70	12.56	0.985	0.747	0.609

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
7.00	1300.64	12.19	7.29	0.0	1.03	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	0.0	1.03	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	0.0	1.03	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	0.0	1.03	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	0.0	1.03	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	0.0	1.03	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	0.0	1.03	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	0.0	1.03	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	0.0	1.03	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	0.0	1.03	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	0.0	1.03	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	0.0	1.03	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	0.0	1.03	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	0.0	1.03	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	3.066	0.326	0.478	2.41	6.84e-02	2883.23	82.0	0.62	1.77e-02	0.0	0.0
2	3.440	0.291	0.464	3125.96	88.9	1.39	3.94e-02	0.42	1.21e-02	0.0	0.0
3	4.118	0.243	0.388	1.67	4.76e-02	0.92	2.61e-02	22.40	0.6	0.0	0.0
4	4.357	0.230	0.345	2.78	7.92e-02	168.31	4.8	0.31	8.92e-03	0.0	0.0
5	4.543	0.220	0.316	0.37	1.05e-02	2.68	7.63e-02	6.59	0.2	0.0	0.0
6	5.765	0.173	0.303	0.05	1.33e-03	2.22	6.32e-02	26.25	0.7	0.0	0.0
7	5.929	0.169	0.297	0.03	9.27e-04	12.31	0.4	38.52	1.1	0.0	0.0
8	6.167	0.162	0.289	1.89e-05	0.0	2.53	7.19e-02	0.01	3.44e-04	0.0	0.0
9	6.571	0.152	0.277	5.30	0.2	1.71e-03	4.85e-05	23.25	0.7	0.0	0.0
10	6.912	0.145	0.267	1.37	3.89e-02	7.31	0.2	24.18	0.7	0.0	0.0
11	7.983	0.125	0.243	0.01	3.92e-04	112.78	3.2	4.11	0.1	0.0	0.0
12	8.209	0.122	0.239	0.56	1.59e-02	81.35	2.3	21.11	0.6	0.0	0.0
13	8.311	0.120	0.237	5.64	0.2	126.08	3.6	2.73	7.75e-02	0.0	0.0
14	8.747	0.114	0.236	9.70	0.3	1.70	4.85e-02	6.49	0.2	0.0	0.0
15	9.333	0.107	0.235	237.32	6.7	5.52	0.2	0.73	2.09e-02	0.0	0.0
16	9.490	0.105	0.234	47.57	1.4	1.74	4.95e-02	8.56	0.2	0.0	0.0
17	11.285	0.089	0.215	0.03	8.90e-04	44.85	1.3	9.03e-03	2.57e-04	0.0	0.0
18	11.789	0.085	0.208	0.42	1.18e-02	1.09	3.10e-02	2.25e-03	6.39e-05	0.0	0.0
19	12.164	0.082	0.204	5.98	0.2	0.03	8.87e-04	8.17e-03	2.32e-04	0.0	0.0
20	12.912	0.077	0.196	1.23	3.51e-02	5.57e-03	1.58e-04	6.82	0.2	0.0	0.0
21	13.569	0.074	0.191	7.68	0.2	0.43	1.22e-02	0.15	4.13e-03	0.0	0.0
22	15.613	0.064	0.175	2.63	7.48e-02	4.38	0.1	0.57	1.62e-02	0.0	0.0
23	16.248	0.062	0.172	5.40	0.2	1.43	4.06e-02	0.44	1.27e-02	0.0	0.0
24	16.672	0.060	0.169	1.82e-03	5.17e-05	3.48	9.91e-02	0.40	1.13e-02	0.0	0.0
25	17.837	0.056	0.166	0.39	1.12e-02	0.33	9.43e-03	3.67	0.1	0.0	0.0
26	19.484	0.051	0.163	1.53	4.35e-02	0.29	8.33e-03	8.08	0.2	0.0	0.0
27	21.062	0.047	0.160	0.24	6.82e-03	1.55e-05	0.0	356.08	10.1	0.0	0.0
28	22.842	0.044	0.157	2.35	6.69e-02	6.01	0.2	15.57	0.4	0.0	0.0
29	23.915	0.042	0.155	5.79	0.2	4.28	0.1	5.28	0.2	0.0	0.0
30	26.310	0.038	0.154	2.87	8.16e-02	1.32	3.76e-02	189.61	5.4	0.0	0.0
31	28.674	0.035	0.153	0.89	2.54e-02	0.58	1.64e-02	650.99	18.5	0.0	0.0
32	35.930	0.028	0.153	0.59	1.69e-02	4.55	0.1	40.76	1.2	0.0	0.0
33	39.241	0.025	0.152	1.37	3.89e-02	0.09	2.59e-03	917.38	26.1	0.0	0.0
34	44.393	0.023	0.152	2.11	6.01e-02	0.87	2.46e-02	492.58	14.0	0.0	0.0
35	70.860	0.014	0.152	1.32	3.76e-02	1.43	4.06e-02	481.69	13.7	0.0	0.0
36	79.579	0.013	0.152	4.62	0.1	22.09	0.6	6.88	0.2	0.0	0.0
37	85.730	0.012	0.152	22.99	0.7	3.22	9.15e-02	27.84	0.8	0.0	0.0
Risulta				3511.19		3510.84		3391.07			
In percentuale				99.85		99.84		96.44			

CDC	Tipo	Sigla Id	Note
24	Edk	CDC=Ed (dinamico SL CO) alfa=90.00 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.336 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	1.03	0.0	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	1.03	0.0	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	1.03	0.0	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	1.03	0.0	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	1.03	0.0	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	1.03	0.0	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	1.03	0.0	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	1.03	0.0	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	1.03	0.0	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	1.03	0.0	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	1.03	0.0	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	1.03	0.0	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	1.03	0.0	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	1.03	0.0	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	1.03	0.0	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	1.03	0.0	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	1.03	0.0	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	1.03	0.0	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	1.03	0.0	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	2.974	0.336	0.452	59.91	1.7	2743.06	78.0	0.47	1.33e-02	0.0	0.0
2	3.422	0.292	0.466	3026.01	86.1	83.58	2.4	0.59	1.68e-02	0.0	0.0
3	4.121	0.243	0.387	5.65	0.2	3.13e-03	8.91e-05	22.76	0.6	0.0	0.0
4	4.540	0.220	0.317	1.65	4.69e-02	1.59	4.54e-02	6.10	0.2	0.0	0.0
5	4.692	0.213	0.315	36.65	1.0	224.04	6.4	0.38	1.08e-02	0.0	0.0
6	5.688	0.176	0.305	0.03	7.55e-04	3.68	0.1	0.03	9.22e-04	0.0	0.0
7	5.765	0.173	0.303	0.05	1.39e-03	2.30	6.54e-02	26.28	0.7	0.0	0.0
8	5.931	0.169	0.297	0.09	2.66e-03	13.96	0.4	38.92	1.1	0.0	0.0
9	6.577	0.152	0.276	4.95	0.1	2.81e-04	8.00e-06	22.77	0.6	0.0	0.0
10	6.910	0.145	0.267	1.25	3.55e-02	9.87	0.3	23.97	0.7	0.0	0.0
11	7.859	0.127	0.246	0.46	1.32e-02	246.79	7.0	0.35	9.96e-03	0.0	0.0
12	8.131	0.123	0.240	0.14	3.92e-03	54.36	1.5	15.92	0.5	0.0	0.0
13	8.267	0.121	0.238	4.83	0.1	15.22	0.4	11.86	0.3	0.0	0.0
14	8.755	0.114	0.236	10.46	0.3	0.68	1.95e-02	6.48	0.2	0.0	0.0
15	9.156	0.109	0.235	271.74	7.7	0.01	3.66e-04	4.41e-03	1.26e-04	0.0	0.0
16	9.472	0.106	0.234	10.06	0.3	3.46	9.83e-02	9.41	0.3	0.0	0.0
17	11.036	0.091	0.218	0.17	4.70e-03	37.19	1.1	0.02	6.44e-04	0.0	0.0
18	12.610	0.079	0.199	5.93	0.2	15.02	0.4	0.07	2.08e-03	0.0	0.0
19	12.881	0.078	0.197	2.58	7.34e-02	1.73e-03	4.92e-05	6.13	0.2	0.0	0.0
20	13.206	0.076	0.194	10.88	0.3	0.15	4.20e-03	0.70	1.99e-02	0.0	0.0
21	13.553	0.074	0.191	2.36	6.72e-02	0.10	2.93e-03	0.09	2.55e-03	0.0	0.0
22	15.802	0.063	0.174	5.00	0.1	0.10	2.72e-03	0.04	1.11e-03	0.0	0.0
23	17.290	0.058	0.167	0.94	2.67e-02	3.13	8.91e-02	1.92	5.46e-02	0.0	0.0
24	17.950	0.056	0.166	0.36	1.02e-02	4.89	0.1	0.31	8.85e-03	0.0	0.0
25	19.382	0.052	0.163	3.88	0.1	2.87	8.16e-02	3.15	8.96e-02	0.0	0.0
26	20.136	0.050	0.161	8.21e-03	2.34e-04	0.83	2.37e-02	98.78	2.8	0.0	0.0
27	21.350	0.047	0.159	0.10	2.74e-03	1.37	3.89e-02	250.96	7.1	0.0	0.0
28	23.320	0.043	0.156	0.54	1.55e-02	6.54	0.2	73.08	2.1	0.0	0.0
29	24.232	0.041	0.155	9.34	0.3	1.28	3.64e-02	1.65	4.68e-02	0.0	0.0
30	26.145	0.038	0.154	1.29	3.67e-02	3.09	8.80e-02	190.45	5.4	0.0	0.0
31	29.703	0.034	0.153	0.44	1.26e-02	0.54	1.53e-02	721.58	20.5	0.0	0.0
32	38.193	0.026	0.152	1.06	3.01e-02	3.71	0.1	51.27	1.5	0.0	0.0
33	38.869	0.026	0.152	2.40	6.82e-02	0.76	2.15e-02	425.02	12.1	0.0	0.0
34	43.887	0.023	0.152	0.54	1.54e-02	0.87	2.46e-02	945.06	26.9	0.0	0.0
35	76.176	0.013	0.152	1.55	4.41e-02	5.90	0.2	342.19	9.7	0.0	0.0
36	81.794	0.012	0.152	7.68	0.2	16.70	0.5	39.18	1.1	0.0	0.0
37	85.617	0.012	0.152	20.27	0.6	3.41	9.69e-02	69.34	2.0	0.0	0.0
Risulta				3511.25		3511.06		3407.29			
In percentuale				99.85		99.85		96.90			

CDC	Tipo	Sigla Id	Note
25	Edk	CDC=Ed (dinamico SL CO) alfa=90.00 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00

CDC	Tipo	Sigla Id	Note
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.320 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati: 37
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
10.60	479.37	12.67	7.65	-1.03	0.0	6.88	12.00	1.181	0.593	0.475
10.10	32.43	13.24	6.73	-1.03	0.0	6.87	12.02	1.181	0.654	0.578
9.60	28.40	13.00	7.25	-1.03	0.0	5.83	12.92	0.901	0.841	0.709
9.10	24.37	12.68	7.95	-1.03	0.0	5.83	12.92	0.901	0.803	0.622
8.60	25.95	12.41	7.70	-1.03	0.0	5.83	12.73	0.923	0.757	0.622
8.07	27.53	12.18	7.48	-1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.53	27.53	12.18	7.48	-1.03	0.0	5.70	12.56	0.985	0.747	0.609
7.00	1300.64	12.19	7.29	-1.03	0.0	5.88	12.71	0.929	0.724	0.669
6.50	26.87	12.32	7.74	-1.03	0.0	5.87	12.73	0.927	0.742	0.617
6.00	25.27	12.49	7.77	-1.03	0.0	5.84	12.86	0.928	0.780	0.629
5.50	23.68	12.67	7.81	-1.03	0.0	5.84	12.86	0.928	0.801	0.624
5.00	25.24	12.39	7.55	-1.03	0.0	5.84	12.67	0.951	0.755	0.624
4.47	30.02	12.75	6.87	-1.03	0.0	5.70	12.50	1.017	0.813	0.663
3.93	33.24	13.24	6.51	-1.03	0.0	5.70	12.50	1.017	0.868	0.706
3.40	1241.51	11.91	6.84	-1.03	0.0	7.97	9.56	0.692	0.568	0.308
2.95	26.94	12.23	7.67	-1.03	0.0	7.97	9.58	0.678	0.616	0.216
2.50	26.85	12.38	7.70	-1.03	0.0	7.95	9.57	0.656	0.650	0.210
2.00	26.75	12.53	7.73	-1.03	0.0	7.95	9.57	0.656	0.671	0.207
1.50	27.47	12.30	7.51	-1.03	0.0	7.95	9.39	0.671	0.630	0.211
1.00	28.19	12.07	7.31	-1.03	0.0	7.95	9.39	0.671	0.598	0.234
0.50	28.19	12.07	7.31	-1.03	0.0	7.95	9.39	0.671	0.598	0.234
Risulta	3516.43									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	3.128	0.320	0.494	45.72	1.3	2950.27	83.9	0.60	1.71e-02	0.0	0.0
2	3.409	0.293	0.468	3000.24	85.3	60.77	1.7	0.52	1.47e-02	0.0	0.0
3	4.120	0.243	0.387	10.22	0.3	0.36	1.02e-02	21.93	0.6	0.0	0.0
4	4.321	0.231	0.351	73.64	2.1	48.70	1.4	0.85	2.42e-02	0.0	0.0
5	4.542	0.220	0.316	0.02	4.33e-04	0.99	2.80e-02	6.61	0.2	0.0	0.0
6	5.765	0.173	0.303	0.07	1.86e-03	2.10	5.97e-02	26.13	0.7	0.0	0.0
7	5.928	0.169	0.297	0.05	1.31e-03	11.92	0.3	38.38	1.1	0.0	0.0
8	6.576	0.152	0.276	4.74	0.1	2.30e-03	6.55e-05	22.87	0.7	0.0	0.0
9	6.798	0.147	0.270	0.02	6.24e-04	2.10	5.97e-02	3.13e-03	8.90e-05	0.0	0.0
10	6.916	0.145	0.267	1.42	4.04e-02	5.54	0.2	24.69	0.7	0.0	0.0
11	8.016	0.125	0.242	0.05	1.28e-03	51.88	1.5	6.79	0.2	0.0	0.0
12	8.235	0.121	0.238	3.53	0.1	18.57	0.5	21.02	0.6	0.0	0.0
13	8.458	0.118	0.236	4.65	0.1	260.13	7.4	0.02	7.00e-04	0.0	0.0
14	8.753	0.114	0.236	9.64	0.3	0.76	2.16e-02	6.55	0.2	0.0	0.0
15	9.172	0.109	0.235	272.60	7.8	3.99	0.1	2.37e-03	6.75e-05	0.0	0.0
16	9.472	0.106	0.234	6.72	0.2	4.86	0.1	9.42	0.3	0.0	0.0
17	11.323	0.088	0.214	1.04	2.97e-02	29.49	0.8	1.18e-04	3.35e-06	0.0	0.0
18	11.822	0.085	0.208	0.83	2.37e-02	7.70	0.2	9.36e-03	2.66e-04	0.0	0.0
19	12.286	0.081	0.203	8.48	0.2	0.06	1.67e-03	2.62e-05	0.0	0.0	0.0
20	12.887	0.078	0.197	2.13	6.07e-02	0.05	1.51e-03	6.28	0.2	0.0	0.0
21	13.310	0.075	0.193	7.11	0.2	0.64	1.81e-02	0.72	2.05e-02	0.0	0.0
22	13.832	0.072	0.188	0.08	2.14e-03	0.48	1.37e-02	1.69e-03	4.81e-05	0.0	0.0
23	15.379	0.065	0.177	0.93	2.64e-02	2.68	7.64e-02	0.13	3.66e-03	0.0	0.0
24	15.824	0.063	0.174	6.97	0.2	0.04	1.19e-03	0.13	3.72e-03	0.0	0.0
25	17.200	0.058	0.168	3.44	9.79e-02	3.11	8.86e-02	4.65	0.1	0.0	0.0
26	20.402	0.049	0.161	1.12	3.18e-02	0.35	1.01e-02	85.81	2.4	0.0	0.0
27	21.042	0.048	0.160	1.47	4.17e-02	4.67e-03	1.33e-04	207.66	5.9	0.0	0.0
28	22.165	0.045	0.158	0.65	1.85e-02	2.24	6.37e-02	95.59	2.7	0.0	0.0
29	24.192	0.041	0.155	4.02	0.1	5.26	0.1	18.35	0.5	0.0	0.0
30	25.256	0.040	0.154	5.94	0.2	2.44	6.93e-02	46.58	1.3	0.0	0.0
31	28.419	0.035	0.153	0.15	4.34e-03	0.42	1.19e-02	774.06	22.0	0.0	0.0
32	36.609	0.027	0.152	0.16	4.61e-03	5.00	0.1	180.90	5.1	0.0	0.0
33	39.322	0.025	0.152	3.57	0.1	0.07	1.86e-03	200.50	5.7	0.0	0.0
34	41.576	0.024	0.152	0.42	1.20e-02	0.90	2.55e-02	1040.27	29.6	0.0	0.0
35	70.160	0.014	0.152	0.05	1.49e-03	1.91	5.44e-02	511.11	14.5	0.0	0.0
36	79.885	0.013	0.152	0.62	1.75e-02	24.57	0.7	27.73	0.8	0.0	0.0
37	84.400	0.012	0.152	28.79	0.8	0.44	1.25e-02	2.36	6.71e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
Risulta				3511.28		3510.81		3389.23			
In percentuale				99.85		99.84		96.38			

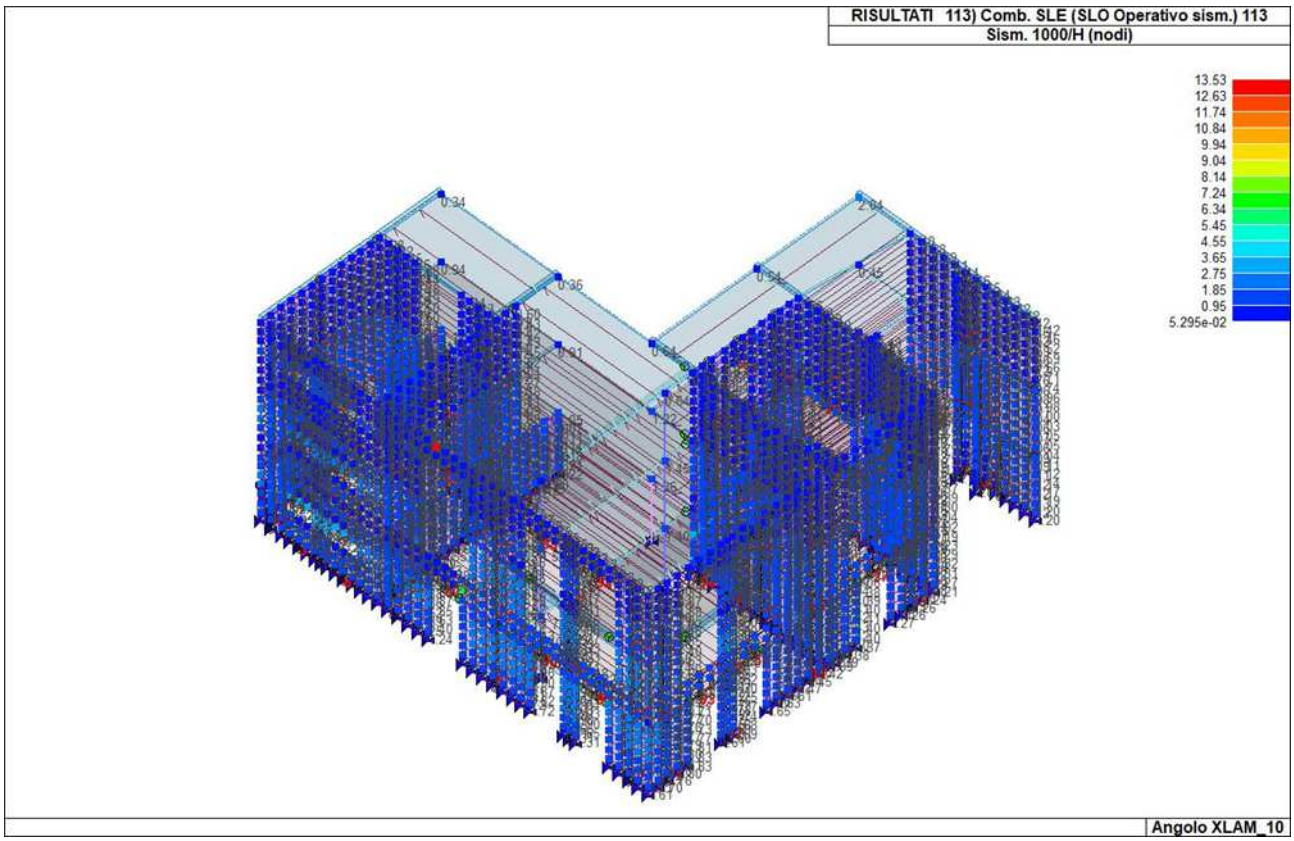


Figura 16: Risultato spostamenti interpiano 1000/H

Per quanto riguarda la valutazione degli spostamenti, considerando che trattasi di struttura a pareti portanti in legno con pochi tramezzi interni realizzati in cartongesso, si considera un limite di verifica pari a $qd_r < 0{,}0075 \times h$ proprio delle tamponature duttili.

Per la Classe d'Uso utilizzata CU III ci si riferisce allo SLO e gli spostamenti d'interpiano vengono controllati che siano inferiori ai 2/3 del limite sopra riportato.

Dall'immagine sopra riportata si evince un valore superiore al limite di normativa considerato pari a 7,5. Tale valore risulta però localizzato solamente ad alcuni nodi, come si vede dall'immagine riportata di seguito, mentre nel complesso dei nodi costituenti la modellazione il limite di normativa risulta ampiamente verificato. Si ritiene quindi che la verifica sia soddisfatta.

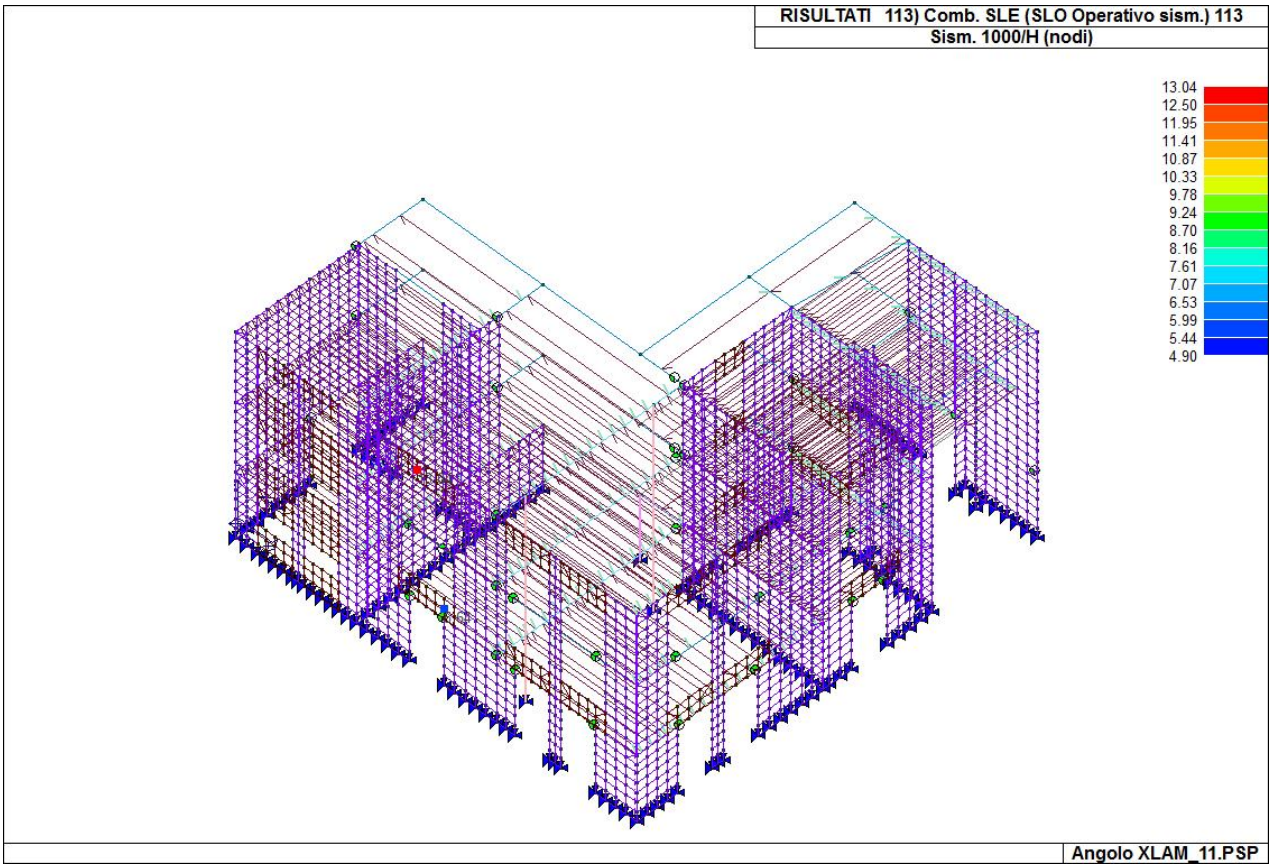


Figura 17: controllo spostamenti: supera i 2/3 di 7,5 solamente in un punto isolato

11.2 LEGENDA TABELLA ANALISI SISMICHE US 02-2

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:

9. Esk caso di carico sismico con analisi statica equivalente

10. Edk caso di carico sismico con analisi dinamica

Ciascun caso di carico è caratterizzato da un angolo di ingresso e da una configurazione di masse determinante la forza sismica complessiva (si rimanda al capitolo relativo ai casi di carico per chiarimenti inerenti questo aspetto).

Nella colonna Note, in funzione della norma in uso sono riportati i parametri fondamentali che caratterizzano l' azione sismica: in particolare possono essere presenti i seguenti valori:

Angolo di ingresso	Angolo di ingresso dell'azione sismica orizzontale
Fattore di importanza	Fattore di importanza dell'edificio, in base alla categoria di appartenenza
Zona sismica	Zona sismica
Accelerazione ag	Accelerazione orizzontale massima sul suolo
Categoria suolo	Categoria di profilo stratigrafico del suolo di fondazione
Fattore q	Fattore di struttura/di comportamento. Dipendente dalla tipologia strutturale
Fattore di sito S	Fattore dipendente dalla stratigrafia e dal profilo topografico
Classe di duttilità CD	Classe di duttilità della struttura - "A" duttilità alta, "B" duttilità bassa
Fattore riduz. SLD	Fattore di riduzione dello spettro elastico per lo stato limite di danno
Periodo proprio T1	Periodo proprio di vibrazione della struttura
Coefficiente	Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura

Lambda	
Ordinata spettro Sd(T1)	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
Ordinata spettro Se(T1)	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
Ordinata spettro S (Tb-Tc)	Valore dell' ordinata dello spettro in uso nel tratto costante
numero di modi considerati	Numero di modi di vibrare della struttura considerati nell'analisi dinamica

Per ciascun caso di carico sismico viene riportato l'insieme di dati sotto riportati (le masse sono espresse in unità di forza):

a) **analisi sismica statica equivalente**:
- quota, posizione del centro di applicazione e azione orizzontale risultante, posizione del baricentro delle rigidezze, rapporto r/Ls (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
- azione sismica complessiva

b) **analisi sismica dinamica con spettro di risposta**:
- quota, posizione del centro di massa e massa risultante, posizione del baricentro delle rigidezze, rapporto r/Ls (per strutture a nucleo) **,** indici di regolarità e/r secondo EC8 4.2.3.2
- frequenza, periodo, accelerazione spettrale, massa eccitata nelle tre direzioni globali per tutti i modi
- massa complessiva ed aliquota di massa complessiva eccitata.

Per ciascuna combinazione sismica definita SLD o SLO viene riportato il livello di deformazione etaT (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità 1000*etaT/h da confrontare direttamente con i valori forniti nella norma (es. 5 per edifici con tamponamenti collegati rigidamente alla struttura, 10.0 per edifici con tamponamenti collegati elasticamente, 3 per edifici in muratura ordinaria, 4 per edifici in muratura armata).

Con riferimento al **Documento di Affidabilità** "Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
23	DM 2008: SPETTRO
29	SISMICA 1000/H, SOMMA V, EFFETTO P-¤
30	ANALISI DI UN EDIFICIO CON ISOLATORI SISMICI
70	MASSE SISMICHE
75	PROGETTO DI ISOLATORI ELASTOMERICI
76	VERIFICA DI ISOLATORI ELASTOMERICI
77	VERIFICA DI ISOLATORI FRICTION PENDULUM

CDC	Tipo	Sigla Id	Note
4	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.336 sec.

CDC	Tipo	Sigla Id	Note
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	0.0	-0.40	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	0.0	-0.54	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	0.0	-0.54	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	0.0	-0.30	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	0.0	-0.54	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	0.0	-0.38	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	0.0	-0.08	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.826	1.211	0.160	10.34	1.2	4.66e-04	5.58e-05	0.0	0.0	0.0	0.0
2	0.829	1.206	0.161	0.03	3.83e-03	0.0	0.0	4.93e-06	0.0	0.0	0.0
3	1.027	0.974	0.178	1.90e-03	2.28e-04	11.57	1.4	1.17e-05	1.40e-06	0.0	0.0
4	1.032	0.969	0.178	9.22e-05	1.11e-05	0.03	3.16e-03	1.34e-05	1.61e-06	0.0	0.0
5	1.248	0.801	0.201	12.09	1.4	4.87e-03	5.84e-04	0.0	0.0	0.0	0.0
6	1.250	0.800	0.201	0.04	4.80e-03	3.36e-06	0.0	4.72e-06	0.0	0.0	0.0
7	1.325	0.755	0.221	2.44e-03	2.92e-04	11.18	1.3	1.62e-06	0.0	0.0	0.0
8	1.327	0.754	0.221	6.60e-05	7.91e-06	0.03	3.78e-03	8.01e-06	0.0	0.0	0.0
9	1.441	0.694	0.267	7.42	0.9	0.0	0.0	1.21e-05	1.45e-06	0.0	0.0
10	1.448	0.691	0.269	0.01	1.73e-03	1.09e-04	1.30e-05	1.13e-05	1.35e-06	0.0	0.0
11	1.512	0.662	0.285	5.95e-06	0.0	3.66	0.4	0.0	0.0	0.0	0.0
12	2.221	0.450	0.372	0.99	0.1	12.15	1.5	1.86e-04	2.23e-05	0.0	0.0
13	2.357	0.424	0.388	177.26	21.3	347.54	41.7	0.03	4.18e-03	0.0	0.0
14	2.979	0.336	0.501	309.79	37.1	180.58	21.7	0.01	1.46e-03	0.0	0.0
15	3.415	0.293	0.535	24.35	2.9	11.31	1.4	6.87e-04	8.23e-05	0.0	0.0
16	3.588	0.279	0.520	23.15	2.8	0.95	0.1	4.29e-03	5.14e-04	0.0	0.0
17	3.910	0.256	0.515	0.17	1.99e-02	3.43	0.4	0.02	2.04e-03	0.0	0.0
18	4.182	0.239	0.450	0.05	6.28e-03	1.58	0.2	8.66e-03	1.04e-03	0.0	0.0
19	4.258	0.235	0.432	4.19e-03	5.03e-04	19.44	2.3	1.57e-04	1.88e-05	0.0	0.0
20	4.383	0.228	0.404	0.29	3.49e-02	40.68	4.9	0.12	1.44e-02	0.0	0.0
21	4.786	0.209	0.364	22.14	2.7	0.0	0.0	1.85e-05	2.22e-06	0.0	0.0
22	5.736	0.174	0.347	0.25	3.03e-02	1.53	0.2	0.07	8.35e-03	0.0	0.0
23	5.940	0.168	0.339	1.62	0.2	9.58	1.1	5.76e-06	0.0	0.0	0.0
24	6.248	0.160	0.328	16.15	1.9	1.26	0.2	0.33	3.97e-02	0.0	0.0
25	6.523	0.153	0.317	8.25	1.0	0.24	2.89e-02	0.11	1.31e-02	0.0	0.0
26	6.741	0.148	0.309	17.88	2.1	0.15	1.82e-02	0.02	2.18e-03	0.0	0.0
27	7.005	0.143	0.300	32.02	3.8	1.10	0.1	0.07	8.21e-03	0.0	0.0
28	7.142	0.140	0.296	2.18	0.3	3.61	0.4	1.16e-04	1.40e-05	0.0	0.0
29	7.352	0.136	0.290	19.26	2.3	0.02	1.89e-03	0.05	5.91e-03	0.0	0.0
30	7.796	0.128	0.280	1.66	0.2	10.67	1.3	4.23e-03	5.07e-04	0.0	0.0
31	8.122	0.123	0.273	6.38	0.8	27.92	3.3	0.07	8.18e-03	0.0	0.0
32	8.223	0.122	0.270	6.14	0.7	1.06	0.1	0.50	6.04e-02	0.0	0.0
33	8.438	0.119	0.269	4.31	0.5	3.43	0.4	0.60	7.20e-02	0.0	0.0
34	8.719	0.115	0.271	5.14e-03	6.16e-04	5.98	0.7	0.13	1.60e-02	0.0	0.0
35	8.921	0.112	0.272	3.32	0.4	15.00	1.8	2.11e-06	0.0	0.0	0.0
36	9.244	0.108	0.274	4.88	0.6	4.37	0.5	0.12	1.39e-02	0.0	0.0
37	9.522	0.105	0.276	0.84	0.1	3.83e-04	4.59e-05	0.0	0.0	0.0	0.0
38	10.700	0.093	0.264	0.93	0.1	1.15	0.1	0.54	6.46e-02	0.0	0.0
39	10.746	0.093	0.263	9.18	1.1	0.10	1.22e-02	1.30	0.2	0.0	0.0
40	10.918	0.092	0.260	0.05	5.94e-03	8.52e-03	1.02e-03	5.00e-03	6.00e-04	0.0	0.0
41	11.346	0.088	0.253	6.38	0.8	7.62e-03	9.13e-04	5.59	0.7	0.0	0.0
42	11.615	0.086	0.248	2.13e-03	2.56e-04	5.46	0.7	1.87e-04	2.25e-05	0.0	0.0
43	12.163	0.082	0.240	5.22e-05	6.25e-06	3.54	0.4	3.47e-03	4.16e-04	0.0	0.0
44	12.465	0.080	0.235	0.44	5.33e-02	0.12	1.40e-02	34.63	4.2	0.0	0.0
45	12.915	0.077	0.230	19.00	2.3	13.69	1.6	0.81	9.77e-02	0.0	0.0
46	13.166	0.076	0.227	7.46	0.9	1.15e-04	1.37e-05	1.67e-03	2.00e-04	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
47	13.409	0.075	0.224	1.47e-03	1.77e-04	0.31	3.74e-02	0.24	2.83e-02	0.0	0.0
48	13.700	0.073	0.220	0.68	8.21e-02	1.64	0.2	0.15	1.80e-02	0.0	0.0
49	14.115	0.071	0.216	0.53	6.39e-02	4.69	0.6	0.31	3.69e-02	0.0	0.0
50	14.303	0.070	0.214	1.00	0.1	2.49	0.3	0.01	1.76e-03	0.0	0.0
51	14.624	0.068	0.211	1.74	0.2	2.10	0.3	1.21	0.1	0.0	0.0
52	14.714	0.068	0.210	0.01	1.52e-03	0.32	3.80e-02	4.37	0.5	0.0	0.0
53	14.954	0.067	0.208	0.39	4.73e-02	0.02	1.94e-03	0.02	2.17e-03	0.0	0.0
54	15.260	0.066	0.205	1.90	0.2	1.27e-03	1.52e-04	0.02	2.05e-03	0.0	0.0
55	15.302	0.065	0.205	0.02	2.21e-03	0.54	6.42e-02	1.05	0.1	0.0	0.0
56	15.347	0.065	0.204	0.10	1.21e-02	0.63	7.56e-02	0.03	3.92e-03	0.0	0.0
57	15.484	0.065	0.203	2.64	0.3	0.01	1.73e-03	0.01	1.49e-03	0.0	0.0
58	15.564	0.064	0.202	1.87	0.2	1.89	0.2	0.01	1.43e-03	0.0	0.0
59	15.653	0.064	0.202	1.21	0.1	4.43	0.5	2.54e-03	3.04e-04	0.0	0.0
60	15.898	0.063	0.200	5.21	0.6	8.17	1.0	0.14	1.63e-02	0.0	0.0
61	16.155	0.062	0.198	0.16	1.97e-02	2.37	0.3	0.03	3.71e-03	0.0	0.0
62	16.334	0.061	0.196	1.08	0.1	5.48e-03	6.58e-04	1.67e-03	2.01e-04	0.0	0.0
63	16.591	0.060	0.194	0.25	3.00e-02	0.28	3.37e-02	9.90	1.2	0.0	0.0
64	16.660	0.060	0.194	3.25	0.4	7.54	0.9	1.20	0.1	0.0	0.0
65	17.106	0.058	0.192	0.27	3.23e-02	7.54e-03	9.04e-04	0.20	2.43e-02	0.0	0.0
66	17.179	0.058	0.192	2.44	0.3	1.36	0.2	1.44	0.2	0.0	0.0
67	17.669	0.057	0.190	0.48	5.79e-02	0.01	1.56e-03	10.63	1.3	0.0	0.0
68	18.008	0.056	0.189	1.89	0.2	3.13	0.4	0.13	1.58e-02	0.0	0.0
69	18.313	0.055	0.188	0.46	5.48e-02	1.71e-04	2.05e-05	0.01	1.46e-03	0.0	0.0
70	18.475	0.054	0.187	0.43	5.17e-02	0.02	2.60e-03	0.02	2.17e-03	0.0	0.0
71	18.824	0.053	0.186	0.85	0.1	2.23	0.3	0.60	7.24e-02	0.0	0.0
72	18.927	0.053	0.186	0.14	1.70e-02	3.67	0.4	5.39	0.6	0.0	0.0
73	19.268	0.052	0.185	2.11	0.3	0.14	1.71e-02	7.32	0.9	0.0	0.0
74	19.434	0.051	0.185	3.36	0.4	1.68	0.2	4.88	0.6	0.0	0.0
75	19.650	0.051	0.184	0.50	6.05e-02	0.23	2.76e-02	1.18	0.1	0.0	0.0
76	20.203	0.049	0.183	0.13	1.55e-02	0.09	1.13e-02	0.22	2.63e-02	0.0	0.0
77	20.933	0.048	0.181	0.81	9.67e-02	1.11	0.1	7.03	0.8	0.0	0.0
78	21.332	0.047	0.180	0.17	2.02e-02	0.05	5.51e-03	1.46	0.2	0.0	0.0
79	21.944	0.046	0.179	0.60	7.19e-02	0.84	0.1	7.40	0.9	0.0	0.0
80	22.263	0.045	0.178	7.75e-03	9.29e-04	0.20	2.41e-02	1.44	0.2	0.0	0.0
81	23.096	0.043	0.176	0.10	1.19e-02	0.40	4.74e-02	3.28	0.4	0.0	0.0
82	23.276	0.043	0.176	0.57	6.83e-02	0.02	2.24e-03	2.38	0.3	0.0	0.0
83	23.449	0.043	0.176	2.80	0.3	4.76e-03	5.71e-04	15.79	1.9	0.0	0.0
84	24.402	0.041	0.174	0.17	2.00e-02	3.24e-03	3.89e-04	5.12	0.6	0.0	0.0
85	25.005	0.040	0.173	0.02	1.87e-03	1.90	0.2	0.09	1.09e-02	0.0	0.0
86	25.304	0.040	0.173	0.61	7.26e-02	1.09e-06	0.0	7.52e-03	9.02e-04	0.0	0.0
87	25.399	0.039	0.173	1.80e-04	2.15e-05	0.16	1.98e-02	0.22	2.65e-02	0.0	0.0
88	25.737	0.039	0.173	3.72	0.4	0.05	5.69e-03	0.11	1.31e-02	0.0	0.0
89	25.890	0.039	0.173	0.22	2.69e-02	2.80e-06	0.0	0.01	1.35e-03	0.0	0.0
90	26.298	0.038	0.173	0.05	5.97e-03	8.47e-04	1.02e-04	1.34	0.2	0.0	0.0
91	26.355	0.038	0.173	0.01	1.65e-03	0.01	1.64e-03	2.50	0.3	0.0	0.0
92	27.100	0.037	0.172	0.04	4.66e-03	0.04	5.16e-03	3.23	0.4	0.0	0.0
93	27.382	0.037	0.172	1.08	0.1	8.38e-05	1.00e-05	0.08	9.00e-03	0.0	0.0
94	28.131	0.036	0.172	2.40e-04	2.88e-05	3.55e-04	4.25e-05	8.17	1.0	0.0	0.0
95	28.251	0.035	0.172	1.28e-04	1.53e-05	6.20e-03	7.44e-04	52.98	6.4	0.0	0.0
96	28.637	0.035	0.172	0.37	4.46e-02	3.07e-03	3.69e-04	0.21	2.56e-02	0.0	0.0
97	29.470	0.034	0.172	0.02	2.86e-03	0.07	8.56e-03	2.73e-05	3.28e-06	0.0	0.0
98	30.316	0.033	0.172	0.33	3.92e-02	1.29	0.2	1.15e-04	1.38e-05	0.0	0.0
99	30.807	0.032	0.172	3.12	0.4	0.13	1.51e-02	0.01	1.58e-03	0.0	0.0
100	31.784	0.031	0.172	0.10	1.25e-02	0.13	1.58e-02	1.30	0.2	0.0	0.0
101	31.819	0.031	0.172	0.09	1.08e-02	0.06	7.10e-03	2.91	0.3	0.0	0.0
102	33.119	0.030	0.171	4.03	0.5	6.72e-03	8.05e-04	0.47	5.61e-02	0.0	0.0
103	34.366	0.029	0.171	4.08	0.5	0.09	1.06e-02	0.32	3.79e-02	0.0	0.0
104	34.494	0.029	0.171	0.04	5.11e-03	5.22e-03	6.25e-04	11.46	1.4	0.0	0.0
105	36.258	0.028	0.171	6.28e-04	7.53e-05	2.16e-03	2.59e-04	5.28	0.6	0.0	0.0
106	36.327	0.028	0.171	1.60e-03	1.92e-04	0.13	1.54e-02	0.72	8.69e-02	0.0	0.0
107	36.715	0.027	0.171	0.16	1.87e-02	1.06e-05	1.27e-06	0.02	2.15e-03	0.0	0.0
108	36.955	0.027	0.171	3.16e-04	3.78e-05	2.51e-04	3.01e-05	26.63	3.2	0.0	0.0
109	37.278	0.027	0.171	1.71e-03	2.05e-04	0.42	4.98e-02	0.09	1.06e-02	0.0	0.0
110	37.396	0.027	0.171	6.21e-04	7.44e-05	0.03	3.31e-03	4.95e-03	5.93e-04	0.0	0.0
111	37.678	0.027	0.171	0.02	2.99e-03	0.01	1.64e-03	1.85e-04	2.22e-05	0.0	0.0
112	38.134	0.026	0.171	0.02	2.62e-03	5.57e-04	6.68e-05	0.01	1.20e-03	0.0	0.0
113	41.227	0.024	0.171	1.01e-03	1.22e-04	8.20e-04	9.83e-05	58.23	7.0	0.0	0.0
114	41.381	0.024	0.171	2.31e-05	2.77e-06	6.00e-03	7.20e-04	1.38e-04	1.66e-05	0.0	0.0
115	41.732	0.024	0.170	0.01	1.74e-03	0.02	2.67e-03	0.25	3.00e-02	0.0	0.0
116	41.770	0.024	0.170	0.04	4.33e-03	0.02	1.82e-03	17.71	2.1	0.0	0.0
117	41.995	0.024	0.170	4.65e-03	5.58e-04	4.42e-03	5.30e-04	0.01	1.36e-03	0.0	0.0
118	42.378	0.024	0.170	2.35e-04	2.81e-05	0.03	4.00e-03	0.03	3.95e-03	0.0	0.0
119	42.601	0.023	0.170	5.33e-03	6.39e-04	8.61e-04	1.03e-04	8.60e-03	1.03e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
120	44.162	0.023	0.170	0.22	2.68e-02	2.53	0.3	2.33e-03	2.79e-04	0.0	0.0
121	45.605	0.022	0.170	1.26e-03	1.51e-04	4.89e-03	5.87e-04	0.07	7.99e-03	0.0	0.0
122	46.393	0.022	0.170	6.89e-05	8.26e-06	0.02	2.54e-03	47.04	5.6	0.0	0.0
123	46.532	0.021	0.170	3.65e-03	4.38e-04	2.78e-03	3.33e-04	2.71	0.3	0.0	0.0
124	46.883	0.021	0.170	7.35e-04	8.82e-05	3.77e-03	4.52e-04	11.85	1.4	0.0	0.0
125	47.132	0.021	0.170	0.24	2.82e-02	1.34	0.2	0.95	0.1	0.0	0.0
126	47.418	0.021	0.170	3.82e-03	4.59e-04	0.05	6.41e-03	9.67	1.2	0.0	0.0
127	48.627	0.021	0.170	1.30e-06	0.0	8.09	1.0	2.79e-03	3.34e-04	0.0	0.0
128	49.257	0.020	0.170	6.32e-05	7.57e-06	8.87e-03	1.06e-03	101.43	12.2	0.0	0.0
129	49.683	0.020	0.170	5.81e-04	6.97e-05	6.63e-03	7.95e-04	1.56	0.2	0.0	0.0
130	50.740	0.020	0.170	9.10e-03	1.09e-03	0.11	1.33e-02	28.78	3.5	0.0	0.0
131	52.820	0.019	0.170	0.0	0.0	2.41e-06	0.0	37.23	4.5	0.0	0.0
132	53.439	0.019	0.170	2.67e-03	3.21e-04	0.02	2.84e-03	1.28	0.2	0.0	0.0
133	54.065	0.018	0.170	1.58e-06	0.0	3.54e-03	4.24e-04	16.70	2.0	0.0	0.0
134	54.247	0.018	0.170	2.89e-03	3.47e-04	0.07	7.99e-03	3.46e-03	4.15e-04	0.0	0.0
135	54.265	0.018	0.170	0.11	1.34e-02	1.00e-04	1.20e-05	5.57e-03	6.67e-04	0.0	0.0
136	54.323	0.018	0.170	3.24	0.4	1.27e-05	1.52e-06	8.03	1.0	0.0	0.0
137	54.546	0.018	0.170	3.99e-04	4.79e-05	9.53e-05	1.14e-05	0.02	2.73e-03	0.0	0.0
138	54.700	0.018	0.170	0.10	1.20e-02	2.37e-03	2.85e-04	0.27	3.22e-02	0.0	0.0
139	54.907	0.018	0.170	2.09	0.3	1.32e-06	0.0	9.13	1.1	0.0	0.0
140	54.996	0.018	0.170	2.95e-03	3.54e-04	0.03	3.31e-03	27.60	3.3	0.0	0.0
141	55.353	0.018	0.170	4.60e-05	5.51e-06	1.48e-04	1.77e-05	5.03e-03	6.03e-04	0.0	0.0
142	58.241	0.017	0.170	1.63e-05	1.95e-06	7.22	0.9	5.18	0.6	0.0	0.0
143	58.960	0.017	0.170	0.05	6.39e-03	3.01e-03	3.60e-04	12.55	1.5	0.0	0.0
144	59.042	0.017	0.170	0.08	9.62e-03	5.51e-03	6.60e-04	21.02	2.5	0.0	0.0
145	59.442	0.017	0.170	4.19e-04	5.02e-05	7.00e-04	8.39e-05	3.61e-03	4.33e-04	0.0	0.0
146	59.911	0.017	0.170	7.79	0.9	0.0	0.0	5.07	0.6	0.0	0.0
147	60.697	0.016	0.170	0.03	3.01e-03	4.26e-04	5.11e-05	3.43	0.4	0.0	0.0
148	60.699	0.016	0.170	4.95e-03	5.94e-04	2.91e-03	3.49e-04	20.92	2.5	0.0	0.0
149	61.066	0.016	0.170	5.41e-03	6.49e-04	2.28e-04	2.74e-05	0.04	4.50e-03	0.0	0.0
150	61.693	0.016	0.170	2.32e-04	2.78e-05	0.0	0.0	14.76	1.8	0.0	0.0
151	61.730	0.016	0.170	3.62e-05	4.33e-06	2.67e-04	3.20e-05	12.77	1.5	0.0	0.0
152	62.371	0.016	0.170	0.88	0.1	0.03	4.04e-03	5.08	0.6	0.0	0.0
153	63.120	0.016	0.170	0.0	0.0	0.23	2.81e-02	0.02	2.96e-03	0.0	0.0
154	65.044	0.015	0.170	0.19	2.28e-02	1.20e-06	0.0	0.03	3.34e-03	0.0	0.0
155	65.307	0.015	0.170	0.06	7.21e-03	7.52e-04	9.02e-05	0.04	4.57e-03	0.0	0.0
156	66.037	0.015	0.170	0.82	9.87e-02	0.04	4.59e-03	1.15	0.1	0.0	0.0
157	69.097	0.014	0.170	2.40e-06	0.0	7.41e-04	8.88e-05	0.13	1.50e-02	0.0	0.0
158	70.051	0.014	0.170	0.11	1.27e-02	1.15e-03	1.37e-04	0.02	1.93e-03	0.0	0.0
159	70.227	0.014	0.170	1.10e-04	1.32e-05	0.02	1.84e-03	0.02	2.38e-03	0.0	0.0
160	70.289	0.014	0.170	3.54e-04	4.24e-05	2.43e-03	2.92e-04	0.05	5.59e-03	0.0	0.0
161	70.931	0.014	0.170	9.20e-04	1.10e-04	0.02	2.81e-03	0.08	9.73e-03	0.0	0.0
162	72.924	0.014	0.170	0.03	3.44e-03	5.67e-04	6.80e-05	0.04	4.67e-03	0.0	0.0
163	73.405	0.014	0.170	1.99e-03	2.39e-04	1.46e-04	1.75e-05	0.49	5.89e-02	0.0	0.0
164	73.734	0.014	0.170	0.01	1.32e-03	8.20e-03	9.84e-04	0.44	5.28e-02	0.0	0.0
165	75.595	0.013	0.170	6.58e-04	7.89e-05	0.08	9.53e-03	0.02	2.33e-03	0.0	0.0
166	76.135	0.013	0.170	3.60e-03	4.32e-04	5.18e-03	6.22e-04	0.31	3.77e-02	0.0	0.0
167	78.631	0.013	0.170	2.23e-03	2.67e-04	0.19	2.31e-02	0.06	7.03e-03	0.0	0.0
168	79.225	0.013	0.170	1.27e-03	1.53e-04	6.03e-05	7.23e-06	0.46	5.52e-02	0.0	0.0
169	79.613	0.013	0.170	1.81e-03	2.17e-04	3.94e-03	4.73e-04	1.04	0.1	0.0	0.0
170	79.951	0.013	0.170	3.38e-05	4.05e-06	2.87e-03	3.45e-04	14.57	1.7	0.0	0.0
171	82.570	0.012	0.170	0.20	2.36e-02	1.42e-03	1.70e-04	0.39	4.72e-02	0.0	0.0
172	83.142	0.012	0.170	1.93e-03	2.31e-04	0.27	3.22e-02	0.92	0.1	0.0	0.0
173	83.665	0.012	0.170	4.39e-04	5.26e-05	0.03	3.64e-03	2.41	0.3	0.0	0.0
174	84.860	0.012	0.170	2.86e-04	3.43e-05	2.36e-03	2.83e-04	1.27	0.2	0.0	0.0
175	87.778	0.011	0.170	3.88e-03	4.66e-04	1.73e-04	2.07e-05	0.02	2.54e-03	0.0	0.0
176	89.054	0.011	0.170	2.40e-06	0.0	0.01	1.31e-03	2.30	0.3	0.0	0.0
177	89.559	0.011	0.170	7.75e-05	9.30e-06	0.26	3.07e-02	0.55	6.65e-02	0.0	0.0
178	91.748	0.011	0.170	4.30e-03	5.16e-04	0.07	7.80e-03	0.02	2.68e-03	0.0	0.0
179	92.158	0.011	0.170	0.05	5.75e-03	4.11e-03	4.92e-04	0.01	1.67e-03	0.0	0.0
180	94.211	0.011	0.170	9.04e-04	1.08e-04	8.20e-04	9.84e-05	0.51	6.11e-02	0.0	0.0
181	96.032	0.010	0.170	2.64e-04	3.17e-05	0.33	3.93e-02	0.17	2.00e-02	0.0	0.0
182	98.429	0.010	0.170	0.02	1.94e-03	6.88e-03	8.24e-04	0.23	2.73e-02	0.0	0.0
183	99.738	0.010	0.170	7.15e-04	8.57e-05	0.03	3.21e-03	1.65	0.2	0.0	0.0
184	100.763	0.010	0.170	1.82e-03	2.18e-04	4.55e-03	5.45e-04	0.67	8.02e-02	0.0	0.0
185	105.099	0.010	0.170	3.76e-04	4.51e-05	1.23e-03	1.48e-04	2.21	0.3	0.0	0.0
186	106.493	0.009	0.170	3.48e-04	4.17e-05	6.15e-04	7.38e-05	5.03	0.6	0.0	0.0
187	107.986	0.009	0.170	4.05e-03	4.85e-04	5.34e-04	6.40e-05	0.87	0.1	0.0	0.0
188	109.584	0.009	0.170	2.34e-05	2.81e-06	0.07	8.39e-03	0.04	4.86e-03	0.0	0.0
189	113.424	0.009	0.170	4.10e-04	4.92e-05	2.59e-04	3.11e-05	0.76	9.08e-02	0.0	0.0
190	116.999	0.009	0.170	1.58e-06	0.0	0.01	1.54e-03	0.04	4.47e-03	0.0	0.0
191	124.081	0.008	0.170	0.04	4.78e-03	3.67e-04	4.40e-05	0.02	2.37e-03	0.0	0.0
192	126.596	0.008	0.170	0.50	5.96e-02	0.06	6.77e-03	1.87e-05	2.24e-06	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
193	132.332	0.008	0.170	8.72e-03	1.05e-03	8.91e-03	1.07e-03	0.42	5.09e-02	0.0	0.0
194	135.337	0.007	0.170	8.78e-03	1.05e-03	6.55e-03	7.85e-04	3.39	0.4	0.0	0.0
195	139.073	0.007	0.170	0.29	3.44e-02	0.25	3.03e-02	3.18e-03	3.82e-04	0.0	0.0
196	146.215	0.007	0.170	4.37e-03	5.24e-04	9.01e-03	1.08e-03	16.85	2.0	0.0	0.0
197	148.882	0.007	0.170	0.09	1.11e-02	0.10	1.15e-02	0.07	8.21e-03	0.0	0.0
198	150.626	0.007	0.170	0.14	1.67e-02	0.02	2.44e-03	0.58	6.99e-02	0.0	0.0
199	154.420	0.006	0.170	0.13	1.60e-02	0.02	1.99e-03	6.71	0.8	0.0	0.0
200	155.716	0.006	0.170	0.17	2.08e-02	0.08	9.19e-03	3.32	0.4	0.0	0.0
201	170.444	0.006	0.170	0.23	2.79e-02	0.08	9.41e-03	0.46	5.56e-02	0.0	0.0
202	173.897	0.006	0.170	5.11e-05	6.12e-06	9.41e-06	1.13e-06	10.96	1.3	0.0	0.0
203	176.806	0.006	0.170	0.03	3.68e-03	0.10	1.22e-02	7.84e-06	0.0	0.0	0.0
204	186.898	0.005	0.170	0.09	1.08e-02	0.03	3.81e-03	0.40	4.74e-02	0.0	0.0
205	192.469	0.005	0.170	6.00e-04	7.19e-05	0.03	3.02e-03	1.26	0.2	0.0	0.0
206	194.554	0.005	0.170	0.05	5.43e-03	0.04	4.24e-03	0.61	7.27e-02	0.0	0.0
207	213.039	0.005	0.170	0.05	6.01e-03	0.01	1.39e-03	0.05	6.27e-03	0.0	0.0
208	219.341	0.005	0.170	4.66e-03	5.59e-04	0.07	8.54e-03	1.71e-03	2.05e-04	0.0	0.0
209	220.784	0.005	0.170	5.15e-04	6.17e-05	6.71e-04	8.05e-05	4.45	0.5	0.0	0.0
210	260.551	0.004	0.170	0.05	6.56e-03	0.05	5.50e-03	0.03	3.48e-03	0.0	0.0
211	263.897	0.004	0.170	3.73e-03	4.47e-04	0.05	5.70e-03	0.28	3.38e-02	0.0	0.0
212	265.546	0.004	0.170	1.32e-03	1.59e-04	3.81e-03	4.56e-04	2.35	0.3	0.0	0.0
213	290.562	0.003	0.170	3.02e-03	3.62e-04	0.07	8.15e-03	1.11e-03	1.33e-04	0.0	0.0
214	304.050	0.003	0.170	0.13	1.61e-02	8.48e-04	1.02e-04	3.05e-03	3.66e-04	0.0	0.0
215	334.211	0.003	0.170	2.17e-03	2.60e-04	1.87e-06	0.0	0.79	9.51e-02	0.0	0.0
216	358.137	0.003	0.170	0.01	1.36e-03	1.92e-04	2.30e-05	0.08	1.01e-02	0.0	0.0
217	385.392	0.003	0.170	2.38e-04	2.86e-05	2.11e-03	2.53e-04	1.34e-03	1.60e-04	0.0	0.0
218	414.062	0.002	0.170	1.03e-04	1.23e-05	1.69e-04	2.02e-05	0.89	0.1	0.0	0.0
219	547.766	0.002	0.170	8.11e-04	9.72e-05	7.17e-04	8.60e-05	0.27	3.26e-02	0.0	0.0
220	559.019	0.002	0.170	3.92e-03	4.71e-04	6.96e-04	8.35e-05	0.15	1.82e-02	0.0	0.0
221	605.067	0.002	0.170	1.46e-04	1.75e-05	3.59e-05	4.30e-06	0.55	6.65e-02	0.0	0.0
222	821.320	0.001	0.170	2.04e-04	2.45e-05	5.40e-04	6.48e-05	3.15e-03	3.78e-04	0.0	0.0
223	915.271	0.001	0.170	5.66e-04	6.79e-05	2.85e-05	3.42e-06	0.08	9.13e-03	0.0	0.0
224	957.242	0.001	0.170	6.01e-05	7.21e-06	9.31e-06	1.12e-06	0.28	3.37e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
5	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.343 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	0.0	0.40	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	0.0	0.54	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	0.0	0.54	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	0.0	0.30	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	0.0	0.54	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	0.0	0.38	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	0.0	0.08	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.861	1.161	0.164	9.51	1.1	4.90e-04	5.87e-05	0.0	0.0	0.0	0.0
2	0.864	1.157	0.164	0.03	3.55e-03	0.0	0.0	5.36e-06	0.0	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
3	1.027	0.974	0.178	1.98e-03	2.37e-04	11.57	1.4	1.17e-05	1.40e-06	0.0	0.0
4	1.032	0.969	0.178	1.41e-04	1.69e-05	0.03	3.16e-03	1.34e-05	1.60e-06	0.0	0.0
5	1.325	0.755	0.221	4.07e-03	4.88e-04	11.19	1.3	1.48e-06	0.0	0.0	0.0
6	1.327	0.754	0.221	1.20e-04	1.43e-05	0.03	3.76e-03	8.08e-06	0.0	0.0	0.0
7	1.418	0.705	0.258	9.81	1.2	8.37e-03	1.00e-03	0.0	0.0	0.0	0.0
8	1.420	0.704	0.259	0.03	3.77e-03	6.58e-06	0.0	6.19e-06	0.0	0.0	0.0
9	1.512	0.662	0.285	2.14e-06	0.0	3.66	0.4	0.0	0.0	0.0	0.0
10	1.589	0.629	0.322	6.06	0.7	2.21e-06	0.0	1.43e-05	1.71e-06	0.0	0.0
11	1.597	0.626	0.326	0.01	1.47e-03	1.40e-04	1.68e-05	1.37e-05	1.64e-06	0.0	0.0
12	2.221	0.450	0.372	1.26	0.2	12.60	1.5	2.46e-04	2.94e-05	0.0	0.0
13	2.359	0.424	0.388	183.63	22.0	340.08	40.8	0.04	4.85e-03	0.0	0.0
14	2.912	0.343	0.476	267.98	32.1	179.85	21.6	0.02	2.09e-03	0.0	0.0
15	3.536	0.283	0.523	13.68	1.6	0.49	5.87e-02	2.73e-03	3.28e-04	0.0	0.0
16	3.577	0.280	0.519	66.91	8.0	19.43	2.3	1.40e-04	1.68e-05	0.0	0.0
17	4.084	0.245	0.472	0.52	6.28e-02	0.03	4.19e-03	0.03	3.08e-03	0.0	0.0
18	4.258	0.235	0.432	3.42e-03	4.10e-04	18.09	2.2	2.19e-04	2.63e-05	0.0	0.0
19	4.274	0.234	0.428	0.04	4.99e-03	2.29	0.3	1.16e-03	1.39e-04	0.0	0.0
20	4.379	0.228	0.404	0.15	1.74e-02	45.56	5.5	0.12	1.40e-02	0.0	0.0
21	5.176	0.193	0.358	24.26	2.9	0.03	3.35e-03	0.23	2.73e-02	0.0	0.0
22	5.588	0.179	0.353	16.37	2.0	1.21e-04	1.45e-05	1.80e-05	2.15e-06	0.0	0.0
23	5.839	0.171	0.343	4.10e-03	4.92e-04	0.16	1.96e-02	2.29e-03	2.74e-04	0.0	0.0
24	5.946	0.168	0.339	3.71	0.4	10.33	1.2	3.98e-03	4.77e-04	0.0	0.0
25	6.399	0.156	0.322	2.28	0.3	1.39	0.2	4.49e-03	5.39e-04	0.0	0.0
26	6.827	0.146	0.306	1.00	0.1	0.06	6.64e-03	1.48e-03	1.77e-04	0.0	0.0
27	6.990	0.143	0.301	28.70	3.4	1.01	0.1	0.04	4.65e-03	0.0	0.0
28	7.200	0.139	0.294	0.14	1.63e-02	4.69	0.6	1.40e-03	1.68e-04	0.0	0.0
29	7.388	0.135	0.290	42.71	5.1	0.76	9.11e-02	0.13	1.61e-02	0.0	0.0
30	7.837	0.128	0.279	0.14	1.68e-02	24.16	2.9	0.02	2.50e-03	0.0	0.0
31	8.065	0.124	0.274	1.63	0.2	2.84	0.3	0.08	9.09e-03	0.0	0.0
32	8.349	0.120	0.268	0.35	4.19e-02	0.84	0.1	1.03	0.1	0.0	0.0
33	8.412	0.119	0.269	15.49	1.9	9.75	1.2	0.08	1.02e-02	0.0	0.0
34	8.806	0.114	0.271	2.94	0.4	25.01	3.0	0.10	1.20e-02	0.0	0.0
35	8.989	0.111	0.273	3.98	0.5	0.04	5.39e-03	0.11	1.32e-02	0.0	0.0
36	9.404	0.106	0.275	1.08	0.1	2.05	0.2	7.44e-03	8.92e-04	0.0	0.0
37	9.856	0.101	0.278	7.00	0.8	0.25	2.96e-02	0.93	0.1	0.0	0.0
38	10.044	0.100	0.277	4.92	0.6	0.02	1.81e-03	2.18	0.3	0.0	0.0
39	10.181	0.098	0.274	6.11	0.7	0.19	2.27e-02	1.68	0.2	0.0	0.0
40	10.468	0.096	0.269	6.02e-04	7.21e-05	0.58	6.93e-02	7.19e-03	8.62e-04	0.0	0.0
41	10.818	0.092	0.262	2.06	0.2	2.13	0.3	0.02	2.01e-03	0.0	0.0
42	11.615	0.086	0.248	2.55e-04	3.06e-05	5.51	0.7	8.46e-04	1.01e-04	0.0	0.0
43	12.166	0.082	0.240	0.04	4.72e-03	4.15	0.5	4.29e-03	5.14e-04	0.0	0.0
44	12.425	0.080	0.236	15.70	1.9	6.61	0.8	9.23	1.1	0.0	0.0
45	12.492	0.080	0.235	6.03	0.7	2.62	0.3	26.50	3.2	0.0	0.0
46	13.128	0.076	0.227	3.92	0.5	0.44	5.30e-02	2.69e-03	3.23e-04	0.0	0.0
47	13.415	0.075	0.224	0.39	4.68e-02	1.39	0.2	0.27	3.28e-02	0.0	0.0
48	13.599	0.074	0.222	0.72	8.66e-02	7.45	0.9	3.19e-04	3.83e-05	0.0	0.0
49	13.880	0.072	0.218	0.40	4.84e-02	2.00	0.2	0.11	1.32e-02	0.0	0.0
50	14.317	0.070	0.214	0.02	2.60e-03	0.15	1.76e-02	0.54	6.51e-02	0.0	0.0
51	14.515	0.069	0.212	4.71e-03	5.64e-04	2.89	0.3	0.14	1.69e-02	0.0	0.0
52	14.715	0.068	0.210	4.81e-03	5.77e-04	0.35	4.24e-02	5.33	0.6	0.0	0.0
53	14.906	0.067	0.208	0.40	4.77e-02	0.08	9.85e-03	0.02	2.78e-03	0.0	0.0
54	15.141	0.066	0.206	0.36	4.30e-02	0.03	3.11e-03	0.15	1.86e-02	0.0	0.0
55	15.302	0.065	0.205	0.03	3.51e-03	0.61	7.35e-02	1.76	0.2	0.0	0.0
56	15.349	0.065	0.204	0.12	1.38e-02	0.01	1.26e-03	6.36	0.8	0.0	0.0
57	15.401	0.065	0.204	0.07	8.44e-03	0.48	5.79e-02	0.88	0.1	0.0	0.0
58	15.541	0.064	0.203	0.98	0.1	5.60	0.7	0.01	1.29e-03	0.0	0.0
59	15.635	0.064	0.202	3.14	0.4	1.67	0.2	0.01	1.26e-03	0.0	0.0
60	15.829	0.063	0.200	4.15	0.5	2.01	0.2	2.10e-03	2.52e-04	0.0	0.0
61	16.091	0.062	0.198	0.92	0.1	6.56e-04	7.86e-05	2.48e-04	2.97e-05	0.0	0.0
62	16.154	0.062	0.198	0.38	4.60e-02	5.59	0.7	0.08	9.29e-03	0.0	0.0
63	16.336	0.061	0.196	1.14	0.1	0.31	3.74e-02	0.01	1.29e-03	0.0	0.0
64	16.593	0.060	0.194	0.08	9.82e-03	0.56	6.71e-02	10.50	1.3	0.0	0.0
65	16.742	0.060	0.193	2.71	0.3	10.43	1.3	0.80	9.60e-02	0.0	0.0
66	16.774	0.060	0.193	6.19	0.7	0.42	5.08e-02	0.02	2.13e-03	0.0	0.0
67	17.498	0.057	0.191	0.89	0.1	1.11	0.1	0.19	2.25e-02	0.0	0.0
68	17.726	0.056	0.190	1.46	0.2	0.09	1.04e-02	1.26	0.2	0.0	0.0
69	17.963	0.056	0.189	0.27	3.30e-02	2.90	0.3	2.93e-05	3.51e-06	0.0	0.0
70	18.272	0.055	0.188	0.28	3.30e-02	0.03	3.28e-03	0.06	6.97e-03	0.0	0.0
71	18.423	0.054	0.188	6.45	0.8	0.27	3.20e-02	1.60	0.2	0.0	0.0
72	18.554	0.054	0.187	2.64	0.3	0.03	3.72e-03	0.06	7.31e-03	0.0	0.0
73	18.887	0.053	0.186	1.05	0.1	5.14	0.6	5.45	0.7	0.0	0.0
74	18.931	0.053	0.186	1.16	0.1	0.25	3.03e-02	2.61	0.3	0.0	0.0
75	18.973	0.053	0.186	2.49	0.3	0.79	9.47e-02	0.69	8.22e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
76	19.748	0.051	0.184	1.03	0.1	1.05	0.1	0.08	9.20e-03	0.0	0.0
77	20.317	0.049	0.182	0.14	1.68e-02	0.07	8.50e-03	3.36	0.4	0.0	0.0
78	20.521	0.049	0.182	0.26	3.12e-02	0.09	1.11e-02	17.79	2.1	0.0	0.0
79	21.792	0.046	0.179	0.26	3.16e-02	1.49	0.2	1.00	0.1	0.0	0.0
80	22.111	0.045	0.178	0.27	3.26e-02	0.44	5.22e-02	3.37	0.4	0.0	0.0
81	22.382	0.045	0.178	2.31e-03	2.77e-04	0.29	3.44e-02	20.14	2.4	0.0	0.0
82	23.168	0.043	0.176	2.23e-03	2.67e-04	0.11	1.30e-02	10.93	1.3	0.0	0.0
83	23.859	0.042	0.175	0.53	6.37e-02	8.81e-03	1.06e-03	0.53	6.36e-02	0.0	0.0
84	23.937	0.042	0.175	1.22	0.1	7.31e-03	8.77e-04	1.46e-03	1.75e-04	0.0	0.0
85	24.883	0.040	0.173	0.05	6.05e-03	1.94	0.2	0.02	1.84e-03	0.0	0.0
86	25.292	0.040	0.173	0.06	7.65e-03	1.19e-03	1.43e-04	0.01	1.31e-03	0.0	0.0
87	25.399	0.039	0.173	8.67e-04	1.04e-04	0.17	2.00e-02	0.22	2.61e-02	0.0	0.0
88	25.611	0.039	0.173	0.47	5.63e-02	1.10e-03	1.32e-04	0.01	1.52e-03	0.0	0.0
89	25.813	0.039	0.173	0.05	6.48e-03	0.04	4.61e-03	3.28	0.4	0.0	0.0
90	26.298	0.038	0.173	5.01e-03	6.00e-04	4.49e-03	5.39e-04	0.02	1.99e-03	0.0	0.0
91	26.377	0.038	0.172	0.02	2.98e-03	0.02	1.92e-03	1.22	0.1	0.0	0.0
92	26.904	0.037	0.172	1.43	0.2	1.91e-03	2.29e-04	0.12	1.39e-02	0.0	0.0
93	27.250	0.037	0.172	2.30	0.3	0.03	3.91e-03	0.04	4.68e-03	0.0	0.0
94	28.108	0.036	0.172	4.75e-03	5.69e-04	2.21e-04	2.65e-05	12.88	1.5	0.0	0.0
95	28.247	0.035	0.172	5.72e-03	6.86e-04	8.85e-03	1.06e-03	49.86	6.0	0.0	0.0
96	28.764	0.035	0.172	3.20e-03	3.84e-04	0.02	2.09e-03	0.23	2.76e-02	0.0	0.0
97	29.052	0.034	0.172	0.91	0.1	8.58e-03	1.03e-03	0.03	3.07e-03	0.0	0.0
98	29.480	0.034	0.172	5.71	0.7	0.56	6.72e-02	0.07	8.05e-03	0.0	0.0
99	30.026	0.033	0.172	1.22	0.1	0.02	2.69e-03	0.05	6.48e-03	0.0	0.0
100	30.480	0.033	0.172	1.56	0.2	0.68	8.13e-02	0.03	3.26e-03	0.0	0.0
101	31.261	0.032	0.172	0.22	2.69e-02	0.39	4.65e-02	0.01	1.55e-03	0.0	0.0
102	31.768	0.031	0.172	0.01	1.24e-03	3.50e-05	4.19e-06	4.71	0.6	0.0	0.0
103	34.495	0.029	0.171	8.73e-05	1.05e-05	0.01	1.34e-03	10.91	1.3	0.0	0.0
104	36.131	0.028	0.171	4.21	0.5	0.03	3.46e-03	2.39	0.3	0.0	0.0
105	36.252	0.028	0.171	0.06	7.04e-03	9.11e-05	1.09e-05	4.79	0.6	0.0	0.0
106	36.325	0.028	0.171	0.03	3.25e-03	0.14	1.66e-02	0.43	5.13e-02	0.0	0.0
107	36.582	0.027	0.171	0.26	3.16e-02	2.24e-05	2.69e-06	0.06	6.81e-03	0.0	0.0
108	36.960	0.027	0.171	1.52e-03	1.82e-04	1.76e-04	2.10e-05	26.20	3.1	0.0	0.0
109	37.283	0.027	0.171	0.01	1.44e-03	0.44	5.22e-02	0.09	1.13e-02	0.0	0.0
110	37.373	0.027	0.171	4.47e-05	5.36e-06	0.01	1.59e-03	3.18e-03	3.81e-04	0.0	0.0
111	37.505	0.027	0.171	0.03	3.90e-03	7.49e-03	8.98e-04	0.01	1.28e-03	0.0	0.0
112	37.765	0.026	0.171	0.16	1.96e-02	7.10e-03	8.51e-04	0.01	1.67e-03	0.0	0.0
113	40.397	0.025	0.171	0.02	1.93e-03	1.50e-06	0.0	0.02	2.97e-03	0.0	0.0
114	41.206	0.024	0.171	4.58e-05	5.49e-06	5.26e-04	6.31e-05	59.81	7.2	0.0	0.0
115	41.390	0.024	0.171	3.12e-06	0.0	5.89e-03	7.07e-04	0.02	2.66e-03	0.0	0.0
116	41.710	0.024	0.170	0.02	2.11e-03	9.08e-03	1.09e-03	1.02	0.1	0.0	0.0
117	41.755	0.024	0.170	0.01	1.47e-03	0.03	3.45e-03	16.91	2.0	0.0	0.0
118	41.983	0.024	0.170	6.70e-03	8.04e-04	3.61e-03	4.33e-04	4.24e-03	5.08e-04	0.0	0.0
119	42.377	0.024	0.170	3.70e-03	4.44e-04	9.84e-03	1.18e-03	0.03	3.16e-03	0.0	0.0
120	43.209	0.023	0.170	0.25	2.95e-02	1.83	0.2	0.03	3.06e-03	0.0	0.0
121	45.601	0.022	0.170	8.33e-06	0.0	6.25e-06	0.0	0.45	5.37e-02	0.0	0.0
122	46.203	0.022	0.170	9.45	1.1	5.05e-05	6.05e-06	6.16e-03	7.38e-04	0.0	0.0
123	46.318	0.022	0.170	3.66e-03	4.38e-04	0.02	2.90e-03	39.48	4.7	0.0	0.0
124	46.459	0.022	0.170	1.55e-03	1.86e-04	0.04	4.32e-03	6.44	0.8	0.0	0.0
125	46.615	0.021	0.170	0.10	1.22e-02	2.07	0.2	0.02	1.95e-03	0.0	0.0
126	46.898	0.021	0.170	1.41e-03	1.69e-04	0.05	5.99e-03	11.63	1.4	0.0	0.0
127	47.384	0.021	0.170	3.50e-05	4.20e-06	0.03	3.78e-03	13.51	1.6	0.0	0.0
128	48.627	0.021	0.170	1.75e-06	0.0	8.08	1.0	2.24e-03	2.68e-04	0.0	0.0
129	49.254	0.020	0.170	1.74e-04	2.09e-05	0.01	1.30e-03	99.91	12.0	0.0	0.0
130	49.698	0.020	0.170	6.63e-04	7.95e-05	4.44e-03	5.32e-04	3.20	0.4	0.0	0.0
131	50.832	0.020	0.170	0.01	1.23e-03	0.12	1.40e-02	28.20	3.4	0.0	0.0
132	52.821	0.019	0.170	1.07e-06	0.0	3.61e-06	0.0	37.18	4.5	0.0	0.0
133	53.441	0.019	0.170	2.05e-03	2.46e-04	0.03	3.06e-03	1.42	0.2	0.0	0.0
134	53.535	0.019	0.170	8.72e-04	1.05e-04	0.0	0.0	16.14	1.9	0.0	0.0
135	54.065	0.018	0.170	0.0	0.0	3.54e-03	4.24e-04	16.74	2.0	0.0	0.0
136	54.247	0.018	0.170	0.0	0.0	0.07	7.99e-03	3.73e-06	0.0	0.0	0.0
137	54.537	0.018	0.170	4.33e-05	5.19e-06	4.50e-05	5.39e-06	0.01	1.73e-03	0.0	0.0
138	54.633	0.018	0.170	0.08	9.49e-03	1.70e-06	0.0	2.03e-05	2.43e-06	0.0	0.0
139	54.975	0.018	0.170	5.20e-03	6.23e-04	0.03	3.12e-03	28.58	3.4	0.0	0.0
140	55.358	0.018	0.170	3.83e-05	4.59e-06	1.32e-04	1.58e-05	2.91e-03	3.49e-04	0.0	0.0
141	56.771	0.018	0.170	7.44	0.9	1.44e-05	1.73e-06	5.61	0.7	0.0	0.0
142	56.847	0.018	0.170	0.07	8.65e-03	1.92e-03	2.30e-04	0.04	5.04e-03	0.0	0.0
143	58.241	0.017	0.170	0.0	0.0	7.22	0.9	5.16	0.6	0.0	0.0
144	58.986	0.017	0.170	0.02	1.95e-03	1.90e-04	2.27e-05	4.31	0.5	0.0	0.0
145	59.089	0.017	0.170	0.09	1.13e-02	2.21e-03	2.65e-04	30.35	3.6	0.0	0.0
146	59.446	0.017	0.170	6.32e-04	7.58e-05	7.70e-04	9.23e-05	0.03	3.51e-03	0.0	0.0
147	60.688	0.016	0.170	1.37e-04	1.64e-05	1.34e-05	1.60e-06	11.20	1.3	0.0	0.0
148	60.699	0.016	0.170	1.61e-06	0.0	3.44e-03	4.13e-04	13.73	1.6	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
149	61.146	0.016	0.170	6.08e-03	7.29e-04	9.67e-05	1.16e-05	5.70e-03	6.84e-04	0.0	0.0
150	61.315	0.016	0.170	0.28	3.37e-02	0.0	0.0	9.10e-04	1.09e-04	0.0	0.0
151	61.696	0.016	0.170	4.44e-04	5.32e-05	2.16e-06	0.0	17.34	2.1	0.0	0.0
152	61.734	0.016	0.170	1.89e-06	0.0	2.36e-04	2.83e-05	10.12	1.2	0.0	0.0
153	63.119	0.016	0.170	9.15e-06	1.10e-06	0.23	2.81e-02	0.02	2.94e-03	0.0	0.0
154	63.806	0.016	0.170	1.24	0.1	0.02	2.85e-03	3.48	0.4	0.0	0.0
155	65.100	0.015	0.170	0.47	5.63e-02	0.05	5.72e-03	1.59	0.2	0.0	0.0
156	67.164	0.015	0.170	6.25e-04	7.49e-05	6.36e-04	7.63e-05	0.05	6.30e-03	0.0	0.0
157	69.045	0.014	0.170	1.33e-04	1.60e-05	5.93e-04	7.11e-05	0.16	1.93e-02	0.0	0.0
158	70.227	0.014	0.170	1.45e-04	1.73e-05	0.02	1.94e-03	1.46e-03	1.74e-04	0.0	0.0
159	70.283	0.014	0.170	4.84e-05	5.80e-06	9.90e-04	1.19e-04	0.03	3.06e-03	0.0	0.0
160	70.439	0.014	0.170	2.43e-03	2.91e-04	2.15e-03	2.58e-04	0.30	3.59e-02	0.0	0.0
161	70.924	0.014	0.170	7.20e-04	8.64e-05	0.02	2.88e-03	0.07	8.08e-03	0.0	0.0
162	73.302	0.014	0.170	1.53e-03	1.84e-04	4.76e-04	5.71e-05	0.31	3.69e-02	0.0	0.0
163	75.105	0.013	0.170	0.18	2.17e-02	1.06e-03	1.27e-04	0.04	4.30e-03	0.0	0.0
164	75.535	0.013	0.170	2.22e-03	2.66e-04	0.09	1.08e-02	1.13e-03	1.35e-04	0.0	0.0
165	76.168	0.013	0.170	0.05	5.61e-03	0.0	0.0	0.21	2.48e-02	0.0	0.0
166	77.266	0.013	0.170	0.01	1.38e-03	4.02e-05	4.82e-06	0.61	7.33e-02	0.0	0.0
167	78.566	0.013	0.170	1.90e-03	2.28e-04	0.16	1.86e-02	0.02	2.20e-03	0.0	0.0
168	78.886	0.013	0.170	4.24e-03	5.08e-04	0.04	5.32e-03	0.06	7.62e-03	0.0	0.0
169	79.895	0.013	0.170	2.85e-04	3.42e-05	7.60e-04	9.11e-05	15.54	1.9	0.0	0.0
170	81.514	0.012	0.170	0.02	2.67e-03	2.03e-03	2.44e-04	0.63	7.58e-02	0.0	0.0
171	82.381	0.012	0.170	0.04	5.32e-03	7.09e-03	8.50e-04	8.60e-03	1.03e-03	0.0	0.0
172	83.160	0.012	0.170	0.01	1.20e-03	0.26	3.07e-02	0.67	8.03e-02	0.0	0.0
173	83.572	0.012	0.170	1.72e-04	2.06e-05	0.03	3.64e-03	4.13	0.5	0.0	0.0
174	85.679	0.012	0.170	6.99e-04	8.38e-05	0.02	2.81e-03	0.87	0.1	0.0	0.0
175	86.550	0.012	0.170	2.64e-03	3.16e-04	6.15e-04	7.37e-05	0.01	1.42e-03	0.0	0.0
176	87.925	0.011	0.170	4.50e-04	5.39e-05	2.43e-04	2.92e-05	0.77	9.21e-02	0.0	0.0
177	89.837	0.011	0.170	1.28e-04	1.54e-05	0.29	3.49e-02	0.80	9.62e-02	0.0	0.0
178	91.817	0.011	0.170	4.00e-06	0.0	0.02	2.54e-03	0.43	5.12e-02	0.0	0.0
179	92.504	0.011	0.170	0.05	6.37e-03	2.27e-05	2.72e-06	4.98e-04	5.97e-05	0.0	0.0
180	94.908	0.011	0.170	2.53e-04	3.03e-05	0.06	7.59e-03	0.32	3.81e-02	0.0	0.0
181	95.969	0.010	0.170	2.44e-03	2.92e-04	0.17	2.02e-02	0.22	2.60e-02	0.0	0.0
182	96.495	0.010	0.170	3.83e-03	4.59e-04	0.08	1.01e-02	0.27	3.26e-02	0.0	0.0
183	98.897	0.010	0.170	6.78e-03	8.13e-04	0.06	6.72e-03	0.86	0.1	0.0	0.0
184	101.746	0.010	0.170	7.19e-03	8.62e-04	4.06e-04	4.87e-05	0.02	2.54e-03	0.0	0.0
185	102.382	0.010	0.170	1.17e-03	1.40e-04	2.74e-03	3.29e-04	3.52	0.4	0.0	0.0
186	106.161	0.009	0.170	2.05e-05	2.46e-06	7.43e-04	8.91e-05	6.84	0.8	0.0	0.0
187	108.325	0.009	0.170	1.08e-03	1.29e-04	0.02	2.40e-03	0.20	2.45e-02	0.0	0.0
188	109.147	0.009	0.170	5.95e-03	7.13e-04	0.01	1.62e-03	0.02	2.86e-03	0.0	0.0
189	110.192	0.009	0.170	3.00e-04	3.59e-05	0.04	4.65e-03	0.02	2.12e-03	0.0	0.0
190	116.664	0.009	0.170	1.43e-05	1.72e-06	0.01	1.51e-03	0.03	4.09e-03	0.0	0.0
191	131.822	0.008	0.170	0.05	6.46e-03	0.14	1.67e-02	0.09	1.07e-02	0.0	0.0
192	133.378	0.007	0.170	0.02	1.90e-03	5.72e-03	6.86e-04	2.43	0.3	0.0	0.0
193	134.034	0.007	0.170	0.08	9.20e-03	6.24e-03	7.48e-04	0.54	6.43e-02	0.0	0.0
194	138.009	0.007	0.170	0.87	0.1	0.04	4.48e-03	2.63e-04	3.15e-05	0.0	0.0
195	142.511	0.007	0.170	1.64e-03	1.97e-04	0.11	1.32e-02	0.32	3.80e-02	0.0	0.0
196	145.363	0.007	0.170	0.07	8.19e-03	8.20e-04	9.83e-05	13.09	1.6	0.0	0.0
197	147.820	0.007	0.170	0.29	3.46e-02	5.21e-04	6.25e-05	2.85	0.3	0.0	0.0
198	148.815	0.007	0.170	8.07e-04	9.67e-05	0.21	2.49e-02	3.65	0.4	0.0	0.0
199	155.182	0.006	0.170	7.42e-03	8.89e-04	7.08e-03	8.49e-04	6.72	0.8	0.0	0.0
200	163.922	0.006	0.170	0.26	3.10e-02	1.96e-04	2.35e-05	1.86	0.2	0.0	0.0
201	169.436	0.006	0.170	0.04	5.39e-03	0.14	1.64e-02	0.03	4.18e-03	0.0	0.0
202	171.814	0.006	0.170	6.50e-05	7.79e-06	1.80e-03	2.16e-04	10.66	1.3	0.0	0.0
203	176.815	0.006	0.170	0.12	1.39e-02	0.04	4.71e-03	0.17	2.05e-02	0.0	0.0
204	186.020	0.005	0.170	0.01	1.69e-03	0.09	1.12e-02	0.08	1.00e-02	0.0	0.0
205	190.897	0.005	0.170	0.02	2.55e-03	0.01	1.49e-03	1.86	0.2	0.0	0.0
206	196.704	0.005	0.170	0.02	2.26e-03	6.37e-03	7.64e-04	1.05	0.1	0.0	0.0
207	215.931	0.005	0.170	2.54e-03	3.05e-04	0.09	1.03e-02	0.02	2.32e-03	0.0	0.0
208	218.856	0.005	0.170	0.02	1.91e-03	1.39e-03	1.67e-04	1.60	0.2	0.0	0.0
209	222.904	0.004	0.170	4.66e-03	5.59e-04	1.08e-03	1.30e-04	2.66	0.3	0.0	0.0
210	258.051	0.004	0.170	1.54e-03	1.85e-04	0.08	9.55e-03	5.33e-03	6.39e-04	0.0	0.0
211	265.171	0.004	0.170	8.27e-04	9.92e-05	1.18e-04	1.41e-05	2.64	0.3	0.0	0.0
212	268.414	0.004	0.170	0.16	1.95e-02	0.02	1.92e-03	0.03	3.87e-03	0.0	0.0
213	287.969	0.003	0.170	6.84e-04	8.20e-05	0.07	8.44e-03	0.01	1.61e-03	0.0	0.0
214	297.834	0.003	0.170	0.05	6.39e-03	4.02e-03	4.82e-04	0.03	3.36e-03	0.0	0.0
215	336.937	0.003	0.170	3.17e-03	3.80e-04	6.60e-05	7.91e-06	0.79	9.42e-02	0.0	0.0
216	358.220	0.003	0.170	8.48e-03	1.02e-03	3.68e-04	4.42e-05	0.07	8.62e-03	0.0	0.0
217	365.264	0.003	0.170	8.44e-05	1.01e-05	2.79e-03	3.34e-04	8.20e-03	9.83e-04	0.0	0.0
218	414.199	0.002	0.170	2.52e-04	3.03e-05	1.27e-04	1.52e-05	0.86	0.1	0.0	0.0
219	532.783	0.002	0.170	7.71e-06	0.0	1.37e-03	1.64e-04	0.07	8.86e-03	0.0	0.0
220	556.697	0.002	0.170	4.42e-03	5.29e-04	1.09e-04	1.31e-05	0.46	5.49e-02	0.0	0.0
221	617.044	0.002	0.170	4.15e-04	4.98e-05	7.49e-05	8.98e-06	0.46	5.53e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
222	806.750	0.001	0.170	1.47e-04	1.77e-05	6.21e-04	7.44e-05	3.27e-05	3.92e-06	0.0	0.0
223	934.000	0.001	0.170	5.91e-04	7.08e-05	1.10e-05	1.32e-06	0.04	4.85e-03	0.0	0.0
224	954.690	0.001	0.170	2.43e-05	2.91e-06	9.66e-06	1.16e-06	0.31	3.73e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
6	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.425 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	0.40	0.0	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	0.54	0.0	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	0.54	0.0	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	0.30	0.0	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	0.54	0.0	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	0.38	0.0	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	0.08	0.0	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.843	1.187	0.163	9.92	1.2	2.64e-04	3.17e-05	0.0	0.0	0.0	0.0
2	0.846	1.182	0.163	0.03	3.69e-03	0.0	0.0	5.14e-06	0.0	0.0	0.0
3	1.006	0.994	0.176	1.86e-03	2.23e-04	12.09	1.4	1.13e-05	1.35e-06	0.0	0.0
4	1.011	0.989	0.176	1.08e-04	1.30e-05	0.03	3.25e-03	1.28e-05	1.54e-06	0.0	0.0
5	1.248	0.801	0.202	2.44e-03	2.92e-04	12.29	1.5	1.54e-06	0.0	0.0	0.0
6	1.249	0.800	0.201	7.52e-05	9.02e-06	0.04	4.23e-03	7.08e-06	0.0	0.0	0.0
7	1.325	0.755	0.221	10.93	1.3	4.89e-03	5.86e-04	0.0	0.0	0.0	0.0
8	1.327	0.754	0.221	0.04	4.29e-03	2.98e-06	0.0	5.34e-06	0.0	0.0	0.0
9	1.443	0.693	0.268	5.76e-06	0.0	4.03	0.5	0.0	0.0	0.0	0.0
10	1.510	0.662	0.285	6.74	0.8	2.40e-06	0.0	1.32e-05	1.58e-06	0.0	0.0
11	1.517	0.659	0.287	0.01	1.60e-03	7.62e-05	9.13e-06	1.24e-05	1.49e-06	0.0	0.0
12	2.119	0.472	0.372	0.36	4.34e-02	9.19	1.1	6.64e-05	7.97e-06	0.0	0.0
13	2.354	0.425	0.388	175.86	21.1	356.13	42.7	0.04	4.54e-03	0.0	0.0
14	2.960	0.338	0.494	276.91	33.2	174.79	21.0	0.02	1.81e-03	0.0	0.0
15	3.405	0.294	0.536	79.22	9.5	17.22	2.1	5.22e-04	6.25e-05	0.0	0.0
16	3.539	0.283	0.522	2.77	0.3	0.25	3.01e-02	6.07e-03	7.28e-04	0.0	0.0
17	3.963	0.252	0.501	6.55e-03	7.85e-04	22.82	2.7	5.70e-04	6.84e-05	0.0	0.0
18	3.989	0.251	0.495	5.39e-03	6.46e-04	0.11	1.27e-02	0.02	1.81e-03	0.0	0.0
19	4.200	0.238	0.445	0.07	8.02e-03	1.45	0.2	3.04e-05	3.64e-06	0.0	0.0
20	4.920	0.203	0.361	0.26	3.11e-02	36.80	4.4	0.17	2.07e-02	0.0	0.0
21	5.141	0.195	0.358	19.21	2.3	7.72e-05	9.26e-06	1.91e-05	2.29e-06	0.0	0.0
22	5.575	0.179	0.353	12.19	1.5	1.92	0.2	0.25	2.95e-02	0.0	0.0
23	5.830	0.172	0.343	7.92	0.9	2.43	0.3	0.05	5.87e-03	0.0	0.0
24	5.895	0.170	0.341	4.78	0.6	10.19	1.2	0.02	1.84e-03	0.0	0.0
25	6.497	0.154	0.318	2.83	0.3	0.48	5.76e-02	0.01	1.27e-03	0.0	0.0
26	6.797	0.147	0.307	8.71	1.0	0.05	5.58e-03	0.01	1.22e-03	0.0	0.0
27	6.949	0.144	0.302	24.70	3.0	2.58	0.3	0.05	5.42e-03	0.0	0.0
28	7.155	0.140	0.296	2.62	0.3	7.42	0.9	1.53e-03	1.83e-04	0.0	0.0
29	7.399	0.135	0.289	34.24	4.1	0.31	3.73e-02	0.09	1.06e-02	0.0	0.0
30	7.787	0.128	0.280	0.45	5.35e-02	17.57	2.1	1.60e-03	1.92e-04	0.0	0.0
31	8.013	0.125	0.275	7.04	0.8	12.90	1.5	4.31e-04	5.17e-05	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
32	8.385	0.119	0.269	16.28	2.0	0.44	5.30e-02	0.06	6.75e-03	0.0	0.0
33	8.636	0.116	0.270	2.22	0.3	7.52	0.9	0.07	8.87e-03	0.0	0.0
34	9.021	0.111	0.273	0.89	0.1	0.85	0.1	0.19	2.28e-02	0.0	0.0
35	9.062	0.110	0.273	1.68	0.2	4.39	0.5	0.60	7.23e-02	0.0	0.0
36	9.392	0.106	0.275	0.21	2.58e-02	17.31	2.1	1.19	0.1	0.0	0.0
37	9.781	0.102	0.277	0.26	3.11e-02	0.01	1.65e-03	0.03	3.72e-03	0.0	0.0
38	10.391	0.096	0.270	10.30	1.2	0.01	1.57e-03	2.35	0.3	0.0	0.0
39	10.495	0.095	0.268	0.07	8.46e-03	0.29	3.42e-02	0.02	2.48e-03	0.0	0.0
40	10.675	0.094	0.265	5.45	0.7	0.06	7.27e-03	3.46	0.4	0.0	0.0
41	10.743	0.093	0.263	1.41	0.2	0.95	0.1	0.03	4.08e-03	0.0	0.0
42	11.433	0.087	0.251	2.26e-03	2.71e-04	5.66	0.7	4.89e-04	5.86e-05	0.0	0.0
43	12.081	0.083	0.241	7.00e-03	8.39e-04	4.49	0.5	2.38e-03	2.86e-04	0.0	0.0
44	12.465	0.080	0.235	0.25	3.00e-02	0.27	3.21e-02	34.76	4.2	0.0	0.0
45	12.868	0.078	0.230	14.26	1.7	13.70	1.6	0.83	9.91e-02	0.0	0.0
46	13.196	0.076	0.226	6.46	0.8	0.01	1.21e-03	0.01	1.45e-03	0.0	0.0
47	13.476	0.074	0.223	2.69	0.3	0.94	0.1	0.10	1.19e-02	0.0	0.0
48	13.824	0.072	0.219	0.68	8.14e-02	0.51	6.14e-02	0.41	4.90e-02	0.0	0.0
49	14.022	0.071	0.217	1.52	0.2	2.38	0.3	0.13	1.51e-02	0.0	0.0
50	14.527	0.069	0.212	7.69	0.9	0.28	3.34e-02	0.06	7.56e-03	0.0	0.0
51	14.747	0.068	0.210	0.35	4.22e-02	3.02	0.4	0.14	1.68e-02	0.0	0.0
52	15.061	0.066	0.207	0.41	4.87e-02	0.43	5.17e-02	3.56e-04	4.27e-05	0.0	0.0
53	15.201	0.066	0.206	0.14	1.72e-02	1.34e-03	1.61e-04	0.03	3.94e-03	0.0	0.0
54	15.286	0.065	0.205	3.21	0.4	0.51	6.16e-02	9.83e-05	1.18e-05	0.0	0.0
55	15.422	0.065	0.204	0.08	9.83e-03	1.33	0.2	0.36	4.32e-02	0.0	0.0
56	15.622	0.064	0.202	1.42	0.2	1.12	0.1	0.72	8.63e-02	0.0	0.0
57	15.710	0.064	0.201	0.22	2.69e-02	5.49	0.7	2.88	0.3	0.0	0.0
58	15.735	0.064	0.201	1.43	0.2	5.04	0.6	0.57	6.85e-02	0.0	0.0
59	15.903	0.063	0.200	1.15	0.1	4.54	0.5	2.46	0.3	0.0	0.0
60	16.151	0.062	0.198	3.21	0.4	3.63	0.4	0.01	1.30e-03	0.0	0.0
61	16.330	0.061	0.196	2.48	0.3	3.27	0.4	0.50	5.95e-02	0.0	0.0
62	16.375	0.061	0.196	0.83	9.90e-02	0.42	5.05e-02	9.36	1.1	0.0	0.0
63	16.487	0.061	0.195	5.55e-04	6.66e-05	1.49	0.2	0.09	1.13e-02	0.0	0.0
64	16.623	0.060	0.194	3.65e-04	4.38e-05	0.04	4.60e-03	0.53	6.36e-02	0.0	0.0
65	16.804	0.060	0.193	0.54	6.45e-02	0.16	1.88e-02	0.07	8.34e-03	0.0	0.0
66	17.213	0.058	0.192	2.89	0.3	0.16	1.87e-02	1.27	0.2	0.0	0.0
67	17.332	0.058	0.191	0.06	6.73e-03	2.73	0.3	13.23	1.6	0.0	0.0
68	18.114	0.055	0.189	0.68	8.13e-02	3.00	0.4	0.02	2.66e-03	0.0	0.0
69	18.338	0.055	0.188	0.42	5.09e-02	0.01	1.31e-03	0.81	9.68e-02	0.0	0.0
70	18.464	0.054	0.188	1.63	0.2	0.20	2.37e-02	0.75	9.04e-02	0.0	0.0
71	18.594	0.054	0.187	0.15	1.84e-02	0.01	1.49e-03	0.12	1.45e-02	0.0	0.0
72	19.022	0.053	0.186	6.99	0.8	0.02	2.47e-03	8.04	1.0	0.0	0.0
73	19.332	0.052	0.185	0.14	1.67e-02	4.99	0.6	8.37	1.0	0.0	0.0
74	19.439	0.051	0.185	1.81	0.2	0.22	2.59e-02	0.10	1.18e-02	0.0	0.0
75	19.682	0.051	0.184	0.01	1.78e-03	0.12	1.44e-02	0.56	6.68e-02	0.0	0.0
76	20.033	0.050	0.183	0.23	2.70e-02	0.56	6.72e-02	8.02e-06	0.0	0.0	0.0
77	20.702	0.048	0.181	0.46	5.57e-02	0.85	0.1	1.72	0.2	0.0	0.0
78	21.042	0.048	0.181	0.32	3.87e-02	0.40	4.75e-02	0.61	7.33e-02	0.0	0.0
79	21.719	0.046	0.179	1.53	0.2	0.13	1.59e-02	13.74	1.6	0.0	0.0
80	22.519	0.044	0.177	0.24	2.92e-02	0.24	2.94e-02	0.12	1.49e-02	0.0	0.0
81	23.076	0.043	0.176	0.40	4.79e-02	2.41e-03	2.89e-04	0.28	3.38e-02	0.0	0.0
82	23.199	0.043	0.176	9.47e-03	1.13e-03	0.32	3.83e-02	8.48	1.0	0.0	0.0
83	23.475	0.043	0.176	0.05	5.81e-03	2.87	0.3	15.84	1.9	0.0	0.0
84	24.311	0.041	0.174	0.08	9.95e-03	0.18	2.15e-02	3.15	0.4	0.0	0.0
85	25.046	0.040	0.173	0.89	0.1	0.07	7.83e-03	0.03	4.09e-03	0.0	0.0
86	25.358	0.039	0.173	0.36	4.35e-02	2.89e-03	3.46e-04	0.25	2.98e-02	0.0	0.0
87	25.458	0.039	0.173	0.79	9.46e-02	9.15e-04	1.10e-04	2.51e-03	3.01e-04	0.0	0.0
88	25.771	0.039	0.173	0.20	2.43e-02	6.10e-04	7.31e-05	7.53e-03	9.02e-04	0.0	0.0
89	25.823	0.039	0.173	5.68e-05	6.81e-06	0.18	2.16e-02	0.05	5.61e-03	0.0	0.0
90	26.014	0.038	0.173	0.09	1.04e-02	0.02	1.86e-03	0.69	8.33e-02	0.0	0.0
91	26.355	0.038	0.173	3.25	0.4	0.02	2.42e-03	0.12	1.42e-02	0.0	0.0
92	26.621	0.038	0.172	0.11	1.37e-02	0.01	1.39e-03	3.95	0.5	0.0	0.0
93	26.992	0.037	0.172	0.09	1.10e-02	0.06	6.68e-03	1.18	0.1	0.0	0.0
94	28.120	0.036	0.172	9.44e-04	1.13e-04	8.62e-06	1.03e-06	11.73	1.4	0.0	0.0
95	28.259	0.035	0.172	9.15e-03	1.10e-03	2.21e-03	2.65e-04	50.44	6.0	0.0	0.0
96	28.539	0.035	0.172	1.94	0.2	5.23e-03	6.27e-04	0.12	1.42e-02	0.0	0.0
97	29.655	0.034	0.172	0.21	2.57e-02	0.01	1.35e-03	2.20e-04	2.63e-05	0.0	0.0
98	29.867	0.033	0.172	0.86	0.1	0.03	3.73e-03	5.11e-03	6.13e-04	0.0	0.0
99	30.453	0.033	0.172	4.14	0.5	0.51	6.07e-02	0.02	1.87e-03	0.0	0.0
100	31.780	0.031	0.172	0.03	3.80e-03	6.91e-03	8.29e-04	3.97	0.5	0.0	0.0
101	31.861	0.031	0.172	1.60	0.2	0.08	9.19e-03	0.65	7.83e-02	0.0	0.0
102	32.851	0.030	0.171	1.05e-03	1.26e-04	0.95	0.1	0.02	1.94e-03	0.0	0.0
103	34.557	0.029	0.171	5.86e-03	7.02e-04	0.05	5.82e-03	11.01	1.3	0.0	0.0
104	35.201	0.028	0.171	4.72	0.6	0.05	5.54e-03	1.53	0.2	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
105	35.412	0.028	0.171	2.17e-03	2.61e-04	0.52	6.29e-02	0.03	3.48e-03	0.0	0.0
106	36.264	0.028	0.171	3.94e-04	4.72e-05	5.24e-04	6.28e-05	6.56	0.8	0.0	0.0
107	36.494	0.027	0.171	0.01	1.50e-03	0.11	1.34e-02	0.07	7.83e-03	0.0	0.0
108	36.588	0.027	0.171	0.18	2.18e-02	1.77e-03	2.13e-04	0.05	5.87e-03	0.0	0.0
109	36.970	0.027	0.171	9.48e-04	1.14e-04	2.60e-03	3.12e-04	25.60	3.1	0.0	0.0
110	37.418	0.027	0.171	0.07	8.41e-03	1.07e-05	1.29e-06	0.02	2.70e-03	0.0	0.0
111	37.669	0.027	0.171	0.02	1.81e-03	2.49e-04	2.98e-05	1.85e-03	2.22e-04	0.0	0.0
112	37.940	0.026	0.171	7.52e-05	9.01e-06	0.01	1.44e-03	0.01	1.28e-03	0.0	0.0
113	40.234	0.025	0.171	1.05e-03	1.26e-04	0.05	5.94e-03	0.01	1.48e-03	0.0	0.0
114	41.229	0.024	0.171	3.34e-04	4.00e-05	1.68e-03	2.01e-04	58.12	7.0	0.0	0.0
115	41.401	0.024	0.171	8.82e-03	1.06e-03	5.95e-05	7.14e-06	0.01	1.35e-03	0.0	0.0
116	41.729	0.024	0.170	0.03	3.52e-03	0.01	1.25e-03	1.25	0.1	0.0	0.0
117	41.771	0.024	0.170	0.01	1.76e-03	0.04	4.20e-03	16.83	2.0	0.0	0.0
118	42.001	0.024	0.170	5.49e-03	6.58e-04	2.24e-03	2.69e-04	6.76e-04	8.11e-05	0.0	0.0
119	42.585	0.023	0.170	2.53e-05	3.03e-06	3.01e-03	3.61e-04	0.02	2.68e-03	0.0	0.0
120	43.580	0.023	0.170	0.27	3.26e-02	2.12	0.3	4.19e-04	5.02e-05	0.0	0.0
121	45.595	0.022	0.170	1.29e-03	1.55e-04	4.79e-04	5.75e-05	0.03	3.76e-03	0.0	0.0
122	46.379	0.022	0.170	2.17e-03	2.60e-04	0.02	2.06e-03	44.40	5.3	0.0	0.0
123	46.542	0.021	0.170	5.01e-03	6.01e-04	0.02	2.06e-03	5.89	0.7	0.0	0.0
124	46.723	0.021	0.170	0.17	2.05e-02	1.69	0.2	0.03	3.62e-03	0.0	0.0
125	46.935	0.021	0.170	5.46e-03	6.55e-04	0.05	5.66e-03	9.42	1.1	0.0	0.0
126	47.369	0.021	0.170	5.10e-04	6.11e-05	0.02	2.61e-03	13.83	1.7	0.0	0.0
127	49.252	0.020	0.170	2.18e-03	2.62e-04	1.85e-04	2.22e-05	98.07	11.8	0.0	0.0
128	49.674	0.020	0.170	0.03	3.99e-03	0.01	1.74e-03	1.00	0.1	0.0	0.0
129	49.856	0.020	0.170	7.64	0.9	4.17e-05	5.00e-06	0.29	3.46e-02	0.0	0.0
130	50.335	0.020	0.170	1.26e-03	1.51e-04	0.01	1.71e-03	14.01	1.7	0.0	0.0
131	51.100	0.020	0.170	9.73e-03	1.17e-03	0.11	1.29e-02	17.75	2.1	0.0	0.0
132	52.820	0.019	0.170	1.10e-06	0.0	5.47e-06	0.0	37.18	4.5	0.0	0.0
133	53.186	0.019	0.170	3.69e-06	0.0	5.90	0.7	0.75	9.01e-02	0.0	0.0
134	53.574	0.019	0.170	0.0	0.0	1.24e-06	0.0	2.89e-03	3.46e-04	0.0	0.0
135	54.116	0.018	0.170	0.02	2.92e-03	0.0	0.0	16.44	2.0	0.0	0.0
136	54.183	0.018	0.170	0.0	0.0	0.06	7.54e-03	5.73e-04	6.87e-05	0.0	0.0
137	54.346	0.018	0.170	0.08	9.41e-03	2.35e-05	2.82e-06	2.19e-04	2.63e-05	0.0	0.0
138	54.668	0.018	0.170	2.12e-06	0.0	0.11	1.36e-02	16.24	1.9	0.0	0.0
139	54.975	0.018	0.170	3.79e-03	4.54e-04	0.02	2.67e-03	28.73	3.4	0.0	0.0
140	55.354	0.018	0.170	7.11e-05	8.53e-06	1.26e-04	1.51e-05	3.92e-03	4.70e-04	0.0	0.0
141	55.722	0.018	0.170	0.09	1.07e-02	2.69e-03	3.23e-04	0.03	3.46e-03	0.0	0.0
142	58.235	0.017	0.170	7.38	0.9	1.44e-05	1.73e-06	5.04	0.6	0.0	0.0
143	58.936	0.017	0.170	1.79e-03	2.14e-04	0.0	0.0	0.99	0.1	0.0	0.0
144	58.976	0.017	0.170	0.02	2.91e-03	8.82e-04	1.06e-04	6.73	0.8	0.0	0.0
145	59.068	0.017	0.170	0.08	9.77e-03	3.94e-03	4.72e-04	27.13	3.3	0.0	0.0
146	59.909	0.017	0.170	0.0	0.0	7.34	0.9	5.48	0.7	0.0	0.0
147	60.691	0.016	0.170	1.48e-03	1.77e-04	4.43e-05	5.32e-06	11.99	1.4	0.0	0.0
148	60.707	0.016	0.170	1.70e-05	2.03e-06	0.05	6.54e-03	12.21	1.5	0.0	0.0
149	61.067	0.016	0.170	2.50e-03	3.00e-04	4.47e-04	5.36e-05	3.40e-06	0.0	0.0	0.0
150	61.693	0.016	0.170	1.62e-04	1.94e-05	0.0	0.0	14.73	1.8	0.0	0.0
151	61.731	0.016	0.170	9.50e-06	1.14e-06	3.95e-04	4.73e-05	12.71	1.5	0.0	0.0
152	63.119	0.016	0.170	0.23	2.79e-02	2.26e-06	0.0	0.03	3.42e-03	0.0	0.0
153	63.628	0.016	0.170	1.00	0.1	0.03	3.39e-03	3.85	0.5	0.0	0.0
154	64.892	0.015	0.170	0.72	8.65e-02	0.04	5.38e-03	1.26	0.2	0.0	0.0
155	65.047	0.015	0.170	2.52e-06	0.0	0.19	2.30e-02	0.02	2.74e-03	0.0	0.0
156	65.772	0.015	0.170	4.32e-04	5.18e-05	0.04	4.81e-03	0.07	7.91e-03	0.0	0.0
157	67.019	0.015	0.170	2.46e-04	2.95e-05	3.70e-04	4.44e-05	0.02	2.22e-03	0.0	0.0
158	69.125	0.014	0.170	3.52e-04	4.22e-05	6.63e-05	7.95e-06	0.13	1.53e-02	0.0	0.0
159	70.054	0.014	0.170	8.56e-03	1.03e-03	5.85e-04	7.02e-05	0.10	1.15e-02	0.0	0.0
160	70.163	0.014	0.170	0.04	5.29e-03	0.02	2.62e-03	0.03	3.83e-03	0.0	0.0
161	70.301	0.014	0.170	4.02e-03	4.81e-04	0.08	9.56e-03	0.01	1.33e-03	0.0	0.0
162	72.808	0.014	0.170	2.01e-03	2.41e-04	6.06e-05	7.27e-06	0.22	2.58e-02	0.0	0.0
163	73.390	0.014	0.170	2.48e-04	2.98e-05	0.02	2.89e-03	0.13	1.62e-02	0.0	0.0
164	73.758	0.014	0.170	7.46e-03	8.94e-04	4.73e-03	5.67e-04	0.41	4.93e-02	0.0	0.0
165	75.393	0.013	0.170	0.08	1.01e-02	6.32e-04	7.57e-05	0.07	7.94e-03	0.0	0.0
166	76.369	0.013	0.170	3.58e-03	4.30e-04	4.77e-03	5.72e-04	0.34	4.03e-02	0.0	0.0
167	78.528	0.013	0.170	0.10	1.20e-02	2.12e-03	2.54e-04	0.02	2.08e-03	0.0	0.0
168	78.661	0.013	0.170	0.09	1.12e-02	3.74e-04	4.48e-05	0.37	4.45e-02	0.0	0.0
169	79.710	0.013	0.170	3.56e-03	4.27e-04	6.97e-03	8.36e-04	0.02	2.30e-03	0.0	0.0
170	79.920	0.013	0.170	1.18e-03	1.41e-04	0.0	0.0	15.94	1.9	0.0	0.0
171	81.491	0.012	0.170	7.15e-03	8.57e-04	2.12e-03	2.54e-04	0.02	2.78e-03	0.0	0.0
172	82.935	0.012	0.170	2.79e-04	3.35e-05	0.46	5.51e-02	1.29	0.2	0.0	0.0
173	84.079	0.012	0.170	6.02e-04	7.22e-05	0.02	1.88e-03	3.25	0.4	0.0	0.0
174	84.946	0.012	0.170	8.18e-04	9.80e-05	0.02	2.59e-03	0.13	1.57e-02	0.0	0.0
175	86.921	0.012	0.170	2.39e-03	2.87e-04	4.79e-04	5.74e-05	0.04	4.28e-03	0.0	0.0
176	88.758	0.011	0.170	1.86e-04	2.22e-05	0.02	2.26e-03	2.44	0.3	0.0	0.0
177	89.551	0.011	0.170	2.30e-05	2.75e-06	0.29	3.46e-02	0.32	3.88e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
178	92.023	0.011	0.170	0.02	2.88e-03	6.13e-03	7.35e-04	0.31	3.77e-02	0.0	0.0
179	92.461	0.011	0.170	0.03	3.48e-03	3.83e-03	4.59e-04	0.24	2.91e-02	0.0	0.0
180	94.512	0.011	0.170	3.32e-06	0.0	0.15	1.75e-02	2.20e-03	2.63e-04	0.0	0.0
181	96.072	0.010	0.170	2.15e-04	2.58e-05	0.10	1.24e-02	0.39	4.66e-02	0.0	0.0
182	98.135	0.010	0.170	9.77e-03	1.17e-03	0.03	4.03e-03	0.28	3.32e-02	0.0	0.0
183	99.232	0.010	0.170	1.04e-04	1.25e-05	0.01	1.28e-03	1.34	0.2	0.0	0.0
184	100.444	0.010	0.170	0.01	1.47e-03	3.34e-03	4.00e-04	0.27	3.21e-02	0.0	0.0
185	103.277	0.010	0.170	7.88e-04	9.44e-05	9.57e-03	1.15e-03	1.83	0.2	0.0	0.0
186	104.259	0.010	0.170	1.72e-06	0.0	0.07	7.96e-03	0.33	3.93e-02	0.0	0.0
187	106.775	0.009	0.170	4.47e-05	5.36e-06	1.12e-03	1.34e-04	6.70	0.8	0.0	0.0
188	112.290	0.009	0.170	7.49e-06	0.0	8.07e-03	9.68e-04	0.02	2.45e-03	0.0	0.0
189	113.836	0.009	0.170	4.93e-05	5.92e-06	4.22e-04	5.06e-05	0.75	8.95e-02	0.0	0.0
190	114.534	0.009	0.170	8.53e-03	1.02e-03	1.07e-05	1.28e-06	6.97e-04	8.35e-05	0.0	0.0
191	122.025	0.008	0.170	0.0	0.0	0.02	1.99e-03	3.94e-03	4.72e-04	0.0	0.0
192	131.808	0.008	0.170	0.41	4.90e-02	0.06	7.17e-03	0.02	2.34e-03	0.0	0.0
193	134.593	0.007	0.170	3.99e-03	4.78e-04	6.31e-06	0.0	3.28	0.4	0.0	0.0
194	138.375	0.007	0.170	0.44	5.25e-02	0.05	5.45e-03	0.01	1.54e-03	0.0	0.0
195	140.980	0.007	0.170	0.15	1.79e-02	0.07	8.95e-03	1.01e-03	1.21e-04	0.0	0.0
196	145.642	0.007	0.170	3.90e-03	4.67e-04	1.83e-03	2.19e-04	15.84	1.9	0.0	0.0
197	148.896	0.007	0.170	0.28	3.36e-02	0.05	6.58e-03	0.84	0.1	0.0	0.0
198	150.812	0.007	0.170	9.33e-03	1.12e-03	0.24	2.83e-02	3.27	0.4	0.0	0.0
199	155.425	0.006	0.170	1.70e-03	2.04e-04	0.03	3.77e-03	7.62	0.9	0.0	0.0
200	161.537	0.006	0.170	0.19	2.27e-02	0.04	4.77e-03	0.02	2.10e-03	0.0	0.0
201	168.825	0.006	0.170	0.20	2.37e-02	0.05	5.61e-03	1.74	0.2	0.0	0.0
202	173.662	0.006	0.170	6.54e-04	7.85e-05	0.02	2.37e-03	8.98	1.1	0.0	0.0
203	178.190	0.006	0.170	0.03	3.37e-03	0.07	8.95e-03	1.36	0.2	0.0	0.0
204	186.657	0.005	0.170	2.25e-03	2.70e-04	0.09	1.09e-02	0.07	8.11e-03	0.0	0.0
205	189.333	0.005	0.170	0.09	1.08e-02	5.00e-04	5.99e-05	0.40	4.74e-02	0.0	0.0
206	193.985	0.005	0.170	0.03	3.10e-03	7.48e-05	8.97e-06	1.58	0.2	0.0	0.0
207	212.967	0.005	0.170	0.01	1.79e-03	0.07	8.15e-03	0.10	1.17e-02	0.0	0.0
208	218.658	0.005	0.170	5.62e-03	6.73e-04	0.03	3.95e-03	1.23	0.1	0.0	0.0
209	221.859	0.005	0.170	5.18e-03	6.21e-04	3.59e-03	4.30e-04	3.21	0.4	0.0	0.0
210	258.317	0.004	0.170	9.49e-04	1.14e-04	0.03	3.66e-03	3.03e-04	3.63e-05	0.0	0.0
211	265.516	0.004	0.170	5.36e-03	6.43e-04	1.77e-03	2.13e-04	2.57	0.3	0.0	0.0
212	274.266	0.004	0.170	0.13	1.54e-02	0.03	3.90e-03	0.09	1.06e-02	0.0	0.0
213	296.015	0.003	0.170	0.01	1.46e-03	0.10	1.15e-02	1.95e-04	2.34e-05	0.0	0.0
214	302.843	0.003	0.170	0.06	7.77e-03	1.95e-03	2.34e-04	3.13e-03	3.76e-04	0.0	0.0
215	339.502	0.003	0.170	1.30e-04	1.56e-05	0.0	0.0	0.85	0.1	0.0	0.0
216	348.154	0.003	0.170	6.23e-03	7.47e-04	1.54e-03	1.85e-04	6.91e-03	8.29e-04	0.0	0.0
217	367.049	0.003	0.170	3.61e-03	4.32e-04	2.83e-03	3.39e-04	0.04	4.23e-03	0.0	0.0
218	416.128	0.002	0.170	6.77e-05	8.11e-06	5.49e-05	6.58e-06	0.85	0.1	0.0	0.0
219	532.094	0.002	0.170	8.77e-05	1.05e-05	1.18e-03	1.42e-04	0.13	1.54e-02	0.0	0.0
220	559.446	0.002	0.170	4.54e-03	5.44e-04	2.81e-04	3.37e-05	0.31	3.75e-02	0.0	0.0
221	608.365	0.002	0.170	2.23e-04	2.67e-05	7.49e-05	8.98e-06	0.54	6.47e-02	0.0	0.0
222	810.356	0.001	0.170	1.25e-04	1.49e-05	6.16e-04	7.39e-05	1.25e-03	1.50e-04	0.0	0.0
223	919.698	0.001	0.170	5.83e-04	6.99e-05	1.25e-05	1.50e-06	0.09	1.06e-02	0.0	0.0
224	960.823	0.001	0.170	7.57e-05	9.08e-06	1.10e-05	1.32e-06	0.27	3.19e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
7	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.423 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	-0.40	0.0	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	-0.54	0.0	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	-0.54	0.0	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	-0.30	0.0	2.50	6.80	1.411	0.154	0.024

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
6.00	4.59	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	-0.54	0.0	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	-0.38	0.0	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	-0.08	0.0	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.843	1.187	0.163	9.92	1.2	7.57e-04	9.08e-05	0.0	0.0	0.0	0.0
2	0.846	1.182	0.163	0.03	3.69e-03	0.0	0.0	5.13e-06	0.0	0.0	0.0
3	1.049	0.953	0.180	2.03e-03	2.44e-04	11.07	1.3	1.21e-05	1.45e-06	0.0	0.0
4	1.054	0.949	0.180	1.22e-04	1.46e-05	0.03	3.07e-03	1.40e-05	1.67e-06	0.0	0.0
5	1.325	0.755	0.221	10.93	1.3	7.76e-03	9.31e-04	0.0	0.0	0.0	0.0
6	1.327	0.754	0.221	0.04	4.27e-03	6.86e-06	0.0	5.36e-06	0.0	0.0	0.0
7	1.419	0.705	0.258	4.42e-03	5.29e-04	10.12	1.2	1.46e-06	0.0	0.0	0.0
8	1.421	0.704	0.259	1.14e-04	1.37e-05	0.03	3.32e-03	9.32e-06	1.12e-06	0.0	0.0
9	1.510	0.662	0.285	6.74	0.8	1.34e-05	1.61e-06	1.30e-05	1.56e-06	0.0	0.0
10	1.517	0.659	0.287	0.01	1.60e-03	1.83e-04	2.20e-05	1.23e-05	1.48e-06	0.0	0.0
11	1.592	0.628	0.324	1.45e-06	0.0	3.29	0.4	0.0	0.0	0.0	0.0
12	2.334	0.428	0.385	29.14	3.5	92.66	11.1	6.17e-03	7.40e-04	0.0	0.0
13	2.363	0.423	0.389	139.46	16.7	273.97	32.8	0.03	3.62e-03	0.0	0.0
14	2.940	0.340	0.486	307.13	36.8	157.95	18.9	0.02	2.14e-03	0.0	0.0
15	3.517	0.284	0.525	34.20	4.1	19.01	2.3	2.60e-06	0.0	0.0	0.0
16	3.648	0.274	0.523	23.60	2.8	1.62	0.2	2.35e-03	2.82e-04	0.0	0.0
17	3.977	0.251	0.498	0.07	8.34e-03	37.95	4.6	0.12	1.45e-02	0.0	0.0
18	4.035	0.248	0.484	0.67	8.03e-02	19.63	2.4	6.54e-04	7.85e-05	0.0	0.0
19	4.229	0.236	0.439	0.29	3.54e-02	2.84e-04	3.41e-05	2.12e-04	2.54e-05	0.0	0.0
20	4.629	0.216	0.367	2.12e-03	2.54e-04	15.37	1.8	1.53e-05	1.83e-06	0.0	0.0
21	5.141	0.195	0.358	19.19	2.3	4.56e-05	5.46e-06	1.59e-05	1.90e-06	0.0	0.0
22	5.591	0.179	0.353	19.13	2.3	6.31e-06	0.0	0.31	3.72e-02	0.0	0.0
23	5.858	0.171	0.342	0.84	0.1	0.28	3.41e-02	5.56e-03	6.66e-04	0.0	0.0
24	6.010	0.166	0.336	5.89	0.7	8.26	1.0	0.01	1.59e-03	0.0	0.0
25	6.395	0.156	0.322	2.85	0.3	1.44	0.2	0.02	1.81e-03	0.0	0.0
26	6.816	0.147	0.307	6.87	0.8	5.57e-04	6.68e-05	7.04e-03	8.44e-04	0.0	0.0
27	7.023	0.142	0.300	33.46	4.0	0.40	4.78e-02	0.03	4.14e-03	0.0	0.0
28	7.183	0.139	0.295	0.10	1.25e-02	1.69	0.2	0.01	1.76e-03	0.0	0.0
29	7.374	0.136	0.290	33.11	4.0	0.88	0.1	0.15	1.84e-02	0.0	0.0
30	7.654	0.131	0.283	9.83e-04	1.18e-04	0.69	8.32e-02	0.73	8.81e-02	0.0	0.0
31	7.889	0.127	0.278	3.32	0.4	14.14	1.7	0.10	1.22e-02	0.0	0.0
32	8.150	0.123	0.272	0.12	1.45e-02	17.74	2.1	0.04	4.87e-03	0.0	0.0
33	8.472	0.118	0.269	15.22	1.8	21.73	2.6	7.03e-03	8.43e-04	0.0	0.0
34	8.670	0.115	0.271	3.15	0.4	5.44	0.7	0.03	3.38e-03	0.0	0.0
35	9.008	0.111	0.273	0.76	9.05e-02	1.78	0.2	0.04	5.09e-03	0.0	0.0
36	9.350	0.107	0.275	2.38	0.3	8.66	1.0	0.04	4.56e-03	0.0	0.0
37	9.796	0.102	0.277	0.12	1.44e-02	0.79	9.45e-02	4.99e-04	5.98e-05	0.0	0.0
38	10.422	0.096	0.270	10.62	1.3	0.05	6.02e-03	2.53	0.3	0.0	0.0
39	10.541	0.095	0.267	1.71	0.2	0.42	5.05e-02	0.50	6.02e-02	0.0	0.0
40	10.699	0.093	0.264	3.03	0.4	0.25	3.03e-02	2.73	0.3	0.0	0.0
41	10.781	0.093	0.263	2.52	0.3	1.26	0.2	0.10	1.24e-02	0.0	0.0
42	11.771	0.085	0.246	1.08e-03	1.29e-04	5.60	0.7	5.85e-04	7.01e-05	0.0	0.0
43	12.184	0.082	0.239	5.76e-03	6.90e-04	3.51	0.4	0.02	2.24e-03	0.0	0.0
44	12.418	0.081	0.236	5.71	0.7	13.47	1.6	10.27	1.2	0.0	0.0
45	12.497	0.080	0.235	2.73	0.3	5.39	0.6	25.36	3.0	0.0	0.0
46	13.194	0.076	0.226	9.27	1.1	0.18	2.15e-02	0.02	2.30e-03	0.0	0.0
47	13.433	0.074	0.223	4.03	0.5	0.51	6.11e-02	0.08	9.41e-03	0.0	0.0
48	13.598	0.074	0.222	4.79	0.6	0.62	7.38e-02	0.61	7.30e-02	0.0	0.0
49	13.800	0.072	0.219	0.19	2.32e-02	2.33e-04	2.79e-05	2.57	0.3	0.0	0.0
50	13.893	0.072	0.218	0.07	8.35e-03	0.80	9.59e-02	0.02	2.82e-03	0.0	0.0
51	14.240	0.070	0.215	5.27	0.6	0.09	1.06e-02	0.35	4.18e-02	0.0	0.0
52	14.359	0.070	0.214	1.51	0.2	0.91	0.1	3.46	0.4	0.0	0.0
53	14.583	0.069	0.211	0.21	2.54e-02	0.20	2.39e-02	0.05	5.44e-03	0.0	0.0
54	14.843	0.067	0.209	0.01	1.22e-03	0.31	3.69e-02	9.56e-03	1.15e-03	0.0	0.0
55	15.258	0.066	0.205	3.11	0.4	0.14	1.67e-02	0.03	3.44e-03	0.0	0.0
56	15.294	0.065	0.205	2.31e-03	2.77e-04	3.85e-03	4.62e-04	0.01	1.32e-03	0.0	0.0
57	15.411	0.065	0.204	0.03	3.27e-03	0.91	0.1	4.99e-03	5.99e-04	0.0	0.0
58	15.647	0.064	0.202	0.81	9.73e-02	3.26	0.4	0.03	3.35e-03	0.0	0.0
59	15.770	0.063	0.201	1.48	0.2	1.55	0.2	2.08e-03	2.50e-04	0.0	0.0
60	16.010	0.062	0.199	1.02	0.1	0.49	5.86e-02	4.25e-03	5.10e-04	0.0	0.0
61	16.032	0.062	0.199	9.83e-06	1.18e-06	1.32	0.2	8.71	1.0	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
62	16.348	0.061	0.196	0.78	9.37e-02	1.79	0.2	7.12	0.9	0.0	0.0
63	16.411	0.061	0.196	9.28e-03	1.11e-03	5.45	0.7	2.28	0.3	0.0	0.0
64	16.452	0.061	0.195	2.88	0.3	6.49	0.8	0.10	1.16e-02	0.0	0.0
65	16.679	0.060	0.194	5.70	0.7	0.92	0.1	0.34	4.06e-02	0.0	0.0
66	16.831	0.059	0.193	1.07	0.1	3.41	0.4	2.24e-05	2.68e-06	0.0	0.0
67	17.462	0.057	0.191	1.59	0.2	4.92	0.6	0.09	1.09e-02	0.0	0.0
68	17.651	0.057	0.190	0.23	2.79e-02	0.23	2.70e-02	0.09	1.12e-02	0.0	0.0
69	18.251	0.055	0.188	3.16e-05	3.78e-06	0.89	0.1	0.08	9.17e-03	0.0	0.0
70	18.322	0.055	0.188	0.58	6.93e-02	0.03	4.07e-03	0.05	6.02e-03	0.0	0.0
71	18.397	0.054	0.188	0.04	4.65e-03	5.53	0.7	3.32	0.4	0.0	0.0
72	18.514	0.054	0.187	2.45	0.3	1.86	0.2	0.48	5.78e-02	0.0	0.0
73	18.561	0.054	0.187	0.47	5.63e-02	0.48	5.75e-02	0.04	5.05e-03	0.0	0.0
74	19.007	0.053	0.186	7.14	0.9	0.63	7.59e-02	8.73	1.0	0.0	0.0
75	19.084	0.052	0.186	0.06	6.98e-03	1.94	0.2	0.04	4.46e-03	0.0	0.0
76	19.724	0.051	0.184	0.92	0.1	0.54	6.52e-02	0.03	3.50e-03	0.0	0.0
77	20.377	0.049	0.182	5.01e-03	6.00e-04	0.63	7.59e-02	14.77	1.8	0.0	0.0
78	20.737	0.048	0.181	0.05	6.41e-03	0.09	1.07e-02	5.77	0.7	0.0	0.0
79	21.820	0.046	0.179	1.60	0.2	0.08	9.85e-03	2.31	0.3	0.0	0.0
80	22.443	0.045	0.178	0.20	2.46e-02	0.24	2.93e-02	15.74	1.9	0.0	0.0
81	22.648	0.044	0.177	1.01	0.1	7.13e-03	8.55e-04	9.20	1.1	0.0	0.0
82	23.159	0.043	0.176	0.01	1.55e-03	0.06	6.82e-03	7.79	0.9	0.0	0.0
83	23.504	0.043	0.175	0.04	5.00e-03	0.78	9.36e-02	1.22	0.1	0.0	0.0
84	24.945	0.040	0.173	1.02	0.1	0.07	8.90e-03	0.02	2.55e-03	0.0	0.0
85	25.063	0.040	0.173	3.70e-03	4.43e-04	0.23	2.75e-02	0.21	2.50e-02	0.0	0.0
86	25.354	0.039	0.173	0.39	4.71e-02	1.40e-03	1.68e-04	0.36	4.30e-02	0.0	0.0
87	25.456	0.039	0.173	0.78	9.32e-02	2.76e-04	3.31e-05	2.84e-03	3.40e-04	0.0	0.0
88	25.671	0.039	0.173	0.07	8.43e-03	0.15	1.80e-02	2.85	0.3	0.0	0.0
89	26.022	0.038	0.173	0.07	8.29e-03	1.59e-04	1.91e-05	0.16	1.88e-02	0.0	0.0
90	26.321	0.038	0.173	3.29	0.4	0.01	1.41e-03	0.03	3.25e-03	0.0	0.0
91	26.636	0.038	0.172	0.02	2.34e-03	0.15	1.81e-02	1.52	0.2	0.0	0.0
92	26.716	0.037	0.172	0.19	2.23e-02	0.52	6.26e-02	0.13	1.55e-02	0.0	0.0
93	27.349	0.037	0.172	0.01	1.43e-03	1.08	0.1	0.14	1.70e-02	0.0	0.0
94	28.118	0.036	0.172	1.16e-03	1.39e-04	9.41e-03	1.13e-03	8.11	1.0	0.0	0.0
95	28.232	0.035	0.172	0.01	1.78e-03	0.04	4.79e-03	53.87	6.5	0.0	0.0
96	28.556	0.035	0.172	1.79	0.2	0.02	2.17e-03	0.04	4.66e-03	0.0	0.0
97	28.717	0.035	0.172	0.23	2.73e-02	0.55	6.54e-02	0.61	7.28e-02	0.0	0.0
98	29.090	0.034	0.172	0.03	3.56e-03	0.72	8.61e-02	0.04	5.34e-03	0.0	0.0
99	29.934	0.033	0.172	1.59	0.2	0.21	2.51e-02	0.01	1.33e-03	0.0	0.0
100	30.524	0.033	0.172	2.67	0.3	0.02	1.83e-03	8.77e-03	1.05e-03	0.0	0.0
101	31.530	0.032	0.172	2.39	0.3	0.04	5.03e-03	0.02	2.00e-03	0.0	0.0
102	31.787	0.031	0.172	0.06	7.52e-03	4.14e-04	4.97e-05	4.60	0.6	0.0	0.0
103	34.455	0.029	0.171	8.39e-04	1.01e-04	3.22e-03	3.86e-04	10.69	1.3	0.0	0.0
104	35.210	0.028	0.171	4.74	0.6	0.06	7.58e-03	1.33	0.2	0.0	0.0
105	36.237	0.028	0.171	1.91e-04	2.29e-05	0.05	5.65e-03	2.82	0.3	0.0	0.0
106	36.288	0.028	0.171	2.28e-03	2.74e-04	0.09	1.07e-02	2.72	0.3	0.0	0.0
107	36.584	0.027	0.171	0.20	2.37e-02	5.87e-06	0.0	0.03	4.05e-03	0.0	0.0
108	36.948	0.027	0.171	3.38e-04	4.05e-05	2.22e-04	2.67e-05	27.17	3.3	0.0	0.0
109	37.134	0.027	0.171	4.12e-05	4.94e-06	4.75e-03	5.70e-04	0.03	3.44e-03	0.0	0.0
110	37.695	0.027	0.171	0.02	2.49e-03	4.79e-04	5.74e-05	6.01e-03	7.21e-04	0.0	0.0
111	38.069	0.026	0.171	0.04	4.94e-03	1.88e-03	2.25e-04	2.51e-03	3.00e-04	0.0	0.0
112	39.523	0.025	0.171	8.90e-05	1.07e-05	0.40	4.79e-02	5.94e-06	0.0	0.0	0.0
113	40.357	0.025	0.171	2.25e-05	2.70e-06	0.01	1.31e-03	0.02	2.58e-03	0.0	0.0
114	41.204	0.024	0.171	2.86e-04	3.43e-05	0.0	0.0	59.88	7.2	0.0	0.0
115	41.408	0.024	0.171	8.65e-03	1.04e-03	8.50e-06	1.02e-06	0.05	5.61e-03	0.0	0.0
116	41.712	0.024	0.170	0.01	1.52e-03	9.77e-03	1.17e-03	0.13	1.57e-02	0.0	0.0
117	41.754	0.024	0.170	0.03	3.67e-03	9.88e-03	1.18e-03	17.67	2.1	0.0	0.0
118	41.978	0.024	0.170	6.04e-03	7.25e-04	6.57e-03	7.88e-04	0.01	1.55e-03	0.0	0.0
119	43.711	0.023	0.170	0.29	3.42e-02	1.95	0.2	4.59e-03	5.50e-04	0.0	0.0
120	44.895	0.022	0.170	1.14e-03	1.36e-04	0.12	1.41e-02	0.03	3.50e-03	0.0	0.0
121	45.059	0.022	0.170	3.03e-06	0.0	9.77	1.2	1.50e-03	1.80e-04	0.0	0.0
122	45.622	0.022	0.170	1.43e-03	1.71e-04	0.02	2.02e-03	0.56	6.72e-02	0.0	0.0
123	46.332	0.022	0.170	3.99e-04	4.78e-05	0.02	1.92e-03	43.65	5.2	0.0	0.0
124	46.448	0.022	0.170	6.57e-03	7.88e-04	5.34e-04	6.41e-05	2.66	0.3	0.0	0.0
125	46.850	0.021	0.170	0.08	9.24e-03	0.97	0.1	3.41	0.4	0.0	0.0
126	46.916	0.021	0.170	0.08	1.00e-02	0.99	0.1	8.45	1.0	0.0	0.0
127	47.402	0.021	0.170	1.14e-03	1.37e-04	0.04	4.36e-03	11.54	1.4	0.0	0.0
128	49.258	0.020	0.170	2.68e-03	3.22e-04	9.18e-05	1.10e-05	102.43	12.3	0.0	0.0
129	49.698	0.020	0.170	0.04	4.26e-03	0.01	1.41e-03	3.73	0.4	0.0	0.0
130	49.856	0.020	0.170	7.63	0.9	4.09e-05	4.91e-06	0.25	2.95e-02	0.0	0.0
131	50.879	0.020	0.170	9.60e-03	1.15e-03	0.13	1.57e-02	27.22	3.3	0.0	0.0
132	52.820	0.019	0.170	1.12e-06	0.0	4.20e-06	0.0	37.17	4.5	0.0	0.0
133	53.494	0.019	0.170	1.08e-06	0.0	1.02e-03	1.22e-04	16.36	2.0	0.0	0.0
134	54.116	0.018	0.170	0.02	2.93e-03	0.0	0.0	16.49	2.0	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
135	54.346	0.018	0.170	0.08	9.41e-03	0.0	0.0	5.61e-05	6.73e-06	0.0	0.0
136	54.515	0.018	0.170	2.77e-06	0.0	0.07	7.90e-03	2.82e-05	3.38e-06	0.0	0.0
137	54.983	0.018	0.170	4.31e-03	5.17e-04	0.02	2.88e-03	29.26	3.5	0.0	0.0
138	55.350	0.018	0.170	6.13e-06	0.0	1.11e-04	1.34e-05	7.70e-03	9.23e-04	0.0	0.0
139	55.644	0.018	0.170	1.89e-03	2.26e-04	8.96e-06	1.07e-06	0.01	1.55e-03	0.0	0.0
140	55.711	0.018	0.170	0.09	1.05e-02	1.94e-03	2.32e-04	0.03	3.67e-03	0.0	0.0
141	56.685	0.018	0.170	1.71e-03	2.05e-04	0.02	2.50e-03	0.45	5.40e-02	0.0	0.0
142	56.772	0.018	0.170	1.71e-05	2.05e-06	7.34	0.9	5.71	0.7	0.0	0.0
143	58.235	0.017	0.170	7.38	0.9	0.0	0.0	5.02	0.6	0.0	0.0
144	58.984	0.017	0.170	0.01	1.37e-03	4.68e-04	5.61e-05	3.14	0.4	0.0	0.0
145	59.098	0.017	0.170	0.09	1.13e-02	5.39e-03	6.46e-04	30.89	3.7	0.0	0.0
146	60.270	0.017	0.170	4.38e-04	5.26e-05	3.05e-04	3.66e-05	3.03e-03	3.63e-04	0.0	0.0
147	60.691	0.016	0.170	1.74e-03	2.08e-04	9.49e-06	1.14e-06	7.83	0.9	0.0	0.0
148	60.694	0.016	0.170	5.54e-05	6.64e-06	2.47e-04	2.97e-05	17.11	2.1	0.0	0.0
149	61.147	0.016	0.170	2.93e-03	3.52e-04	9.84e-04	1.18e-04	1.25e-03	1.50e-04	0.0	0.0
150	61.313	0.016	0.170	1.25e-06	0.0	0.29	3.44e-02	1.73e-03	2.08e-04	0.0	0.0
151	61.691	0.016	0.170	1.32e-04	1.58e-05	0.0	0.0	13.92	1.7	0.0	0.0
152	61.729	0.016	0.170	2.19e-06	0.0	4.46e-04	5.35e-05	13.56	1.6	0.0	0.0
153	63.119	0.016	0.170	0.23	2.79e-02	1.73e-06	0.0	0.03	3.44e-03	0.0	0.0
154	63.646	0.016	0.170	1.04	0.1	0.02	2.98e-03	3.97	0.5	0.0	0.0
155	64.947	0.015	0.170	0.68	8.13e-02	0.04	5.15e-03	1.15	0.1	0.0	0.0
156	67.288	0.015	0.170	4.28e-04	5.13e-05	8.76e-04	1.05e-04	0.03	3.53e-03	0.0	0.0
157	69.048	0.014	0.170	2.56e-04	3.07e-05	3.32e-05	3.99e-06	0.14	1.67e-02	0.0	0.0
158	70.053	0.014	0.170	7.54e-03	9.04e-04	4.70e-04	5.63e-05	0.07	8.27e-03	0.0	0.0
159	70.171	0.014	0.170	0.05	5.88e-03	8.88e-04	1.06e-04	0.04	4.86e-03	0.0	0.0
160	70.991	0.014	0.170	9.38e-04	1.12e-04	6.71e-03	8.05e-04	0.33	3.96e-02	0.0	0.0
161	72.839	0.014	0.170	1.34e-03	1.60e-04	1.37e-03	1.65e-04	0.28	3.34e-02	0.0	0.0
162	75.138	0.013	0.170	3.47e-03	4.17e-04	0.12	1.42e-02	1.97e-03	2.37e-04	0.0	0.0
163	75.326	0.013	0.170	0.05	5.82e-03	0.03	3.08e-03	6.82e-06	0.0	0.0	0.0
164	75.379	0.013	0.170	0.04	4.99e-03	0.04	4.26e-03	0.03	3.33e-03	0.0	0.0
165	76.669	0.013	0.170	7.46e-04	8.94e-05	0.03	3.80e-03	0.34	4.12e-02	0.0	0.0
166	77.123	0.013	0.170	1.08e-04	1.29e-05	0.01	1.57e-03	0.53	6.38e-02	0.0	0.0
167	78.562	0.013	0.170	0.19	2.28e-02	4.52e-04	5.42e-05	0.07	7.94e-03	0.0	0.0
168	79.384	0.013	0.170	9.04e-03	1.08e-03	0.02	1.85e-03	0.60	7.23e-02	0.0	0.0
169	79.912	0.013	0.170	2.51e-04	3.00e-05	1.23e-05	1.47e-06	15.31	1.8	0.0	0.0
170	81.310	0.012	0.170	6.81e-03	8.16e-04	5.31e-03	6.37e-04	0.23	2.75e-02	0.0	0.0
171	82.861	0.012	0.170	1.12e-03	1.34e-04	0.23	2.75e-02	2.51e-03	3.01e-04	0.0	0.0
172	83.176	0.012	0.170	2.60e-05	3.12e-06	0.13	1.58e-02	3.21	0.4	0.0	0.0
173	84.337	0.012	0.170	2.04e-03	2.45e-04	1.86e-03	2.23e-04	1.97	0.2	0.0	0.0
174	85.106	0.012	0.170	5.17e-05	6.20e-06	0.01	1.63e-03	0.13	1.55e-02	0.0	0.0
175	86.990	0.011	0.170	6.27e-04	7.52e-05	1.74e-03	2.09e-04	0.99	0.1	0.0	0.0
176	88.652	0.011	0.170	1.49e-03	1.79e-04	6.72e-05	8.06e-06	0.26	3.14e-02	0.0	0.0
177	90.027	0.011	0.170	2.98e-04	3.58e-05	0.28	3.38e-02	0.79	9.43e-02	0.0	0.0
178	91.659	0.011	0.170	3.13e-05	3.75e-06	0.02	2.39e-03	0.48	5.80e-02	0.0	0.0
179	92.321	0.011	0.170	0.05	6.43e-03	3.98e-04	4.77e-05	4.33e-03	5.20e-04	0.0	0.0
180	95.649	0.010	0.170	2.12e-05	2.54e-06	0.14	1.69e-02	0.07	8.80e-03	0.0	0.0
181	96.339	0.010	0.170	9.69e-05	1.16e-05	0.05	5.74e-03	0.79	9.42e-02	0.0	0.0
182	97.162	0.010	0.170	1.75e-03	2.09e-04	0.27	3.23e-02	0.09	1.03e-02	0.0	0.0
183	98.593	0.010	0.170	4.14e-03	4.97e-04	0.01	1.76e-03	0.24	2.83e-02	0.0	0.0
184	100.495	0.010	0.170	0.01	1.53e-03	6.29e-03	7.54e-04	0.36	4.26e-02	0.0	0.0
185	102.163	0.010	0.170	2.93e-03	3.51e-04	4.08e-03	4.89e-04	3.58	0.4	0.0	0.0
186	106.224	0.009	0.170	1.94e-05	2.33e-06	3.32e-05	3.98e-06	7.04	0.8	0.0	0.0
187	106.843	0.009	0.170	8.01e-06	0.0	8.51e-03	1.02e-03	0.05	5.47e-03	0.0	0.0
188	113.315	0.009	0.170	4.84e-04	5.80e-05	7.30e-05	8.75e-06	0.05	5.55e-03	0.0	0.0
189	114.611	0.009	0.170	8.04e-03	9.64e-04	3.66e-04	4.39e-05	4.43e-03	5.31e-04	0.0	0.0
190	115.756	0.009	0.170	6.60e-05	7.92e-06	0.06	7.61e-03	2.72e-03	3.26e-04	0.0	0.0
191	127.977	0.008	0.170	3.82e-03	4.58e-04	0.03	3.47e-03	0.05	5.49e-03	0.0	0.0
192	130.101	0.008	0.170	0.17	2.09e-02	0.14	1.74e-02	0.03	3.15e-03	0.0	0.0
193	133.711	0.007	0.170	5.83e-03	6.99e-04	2.16e-05	2.59e-06	3.11	0.4	0.0	0.0
194	136.216	0.007	0.170	0.69	8.29e-02	0.08	9.95e-03	0.04	5.25e-03	0.0	0.0
195	137.326	0.007	0.170	0.02	2.04e-03	0.04	4.78e-03	2.40e-03	2.88e-04	0.0	0.0
196	145.308	0.007	0.170	0.05	6.01e-03	0.02	1.96e-03	11.91	1.4	0.0	0.0
197	147.282	0.007	0.170	0.15	1.81e-02	0.15	1.75e-02	6.55	0.8	0.0	0.0
198	149.084	0.007	0.170	0.21	2.46e-02	0.02	2.90e-03	0.16	1.93e-02	0.0	0.0
199	155.238	0.006	0.170	2.45e-03	2.94e-04	5.83e-03	7.00e-04	8.68	1.0	0.0	0.0
200	161.974	0.006	0.170	0.19	2.23e-02	0.04	4.61e-03	0.02	2.29e-03	0.0	0.0
201	168.167	0.006	0.170	0.19	2.22e-02	0.07	8.61e-03	1.23	0.1	0.0	0.0
202	171.618	0.006	0.170	1.59e-03	1.90e-04	4.99e-03	5.98e-04	10.35	1.2	0.0	0.0
203	177.770	0.006	0.170	0.03	4.02e-03	0.15	1.83e-02	0.18	2.12e-02	0.0	0.0
204	185.408	0.005	0.170	0.05	5.96e-03	0.03	3.41e-03	0.29	3.44e-02	0.0	0.0
205	190.880	0.005	0.170	0.04	4.43e-03	4.24e-04	5.09e-05	1.57	0.2	0.0	0.0
206	195.332	0.005	0.170	0.04	4.57e-03	7.01e-04	8.41e-05	1.20	0.1	0.0	0.0
207	212.623	0.005	0.170	0.01	1.76e-03	0.06	6.72e-03	0.09	1.12e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
208	220.383	0.005	0.170	6.81e-04	8.16e-05	0.02	2.73e-03	3.25	0.4	0.0	0.0
209	225.036	0.004	0.170	9.38e-03	1.12e-03	0.04	4.22e-03	0.97	0.1	0.0	0.0
210	253.606	0.004	0.170	6.42e-04	7.69e-05	0.10	1.17e-02	5.74e-03	6.88e-04	0.0	0.0
211	265.098	0.004	0.170	8.94e-03	1.07e-03	1.24e-03	1.49e-04	2.52	0.3	0.0	0.0
212	269.754	0.004	0.170	0.09	1.08e-02	0.03	3.61e-03	0.17	2.08e-02	0.0	0.0
213	289.159	0.003	0.170	0.06	6.90e-03	0.03	3.56e-03	5.02e-03	6.01e-04	0.0	0.0
214	303.622	0.003	0.170	0.05	6.49e-03	3.11e-03	3.73e-04	0.01	1.34e-03	0.0	0.0
215	335.457	0.003	0.170	3.41e-04	4.08e-05	3.33e-05	3.99e-06	0.81	9.68e-02	0.0	0.0
216	351.606	0.003	0.170	9.32e-03	1.12e-03	3.91e-05	4.68e-06	0.02	2.00e-03	0.0	0.0
217	389.391	0.003	0.170	8.63e-04	1.04e-04	2.11e-03	2.53e-04	0.13	1.59e-02	0.0	0.0
218	415.459	0.002	0.170	1.48e-05	1.77e-06	1.15e-06	0.0	0.78	9.39e-02	0.0	0.0
219	542.583	0.002	0.170	7.21e-04	8.64e-05	7.83e-04	9.38e-05	0.32	3.81e-02	0.0	0.0
220	563.170	0.002	0.170	4.00e-03	4.80e-04	6.66e-04	7.99e-05	0.13	1.60e-02	0.0	0.0
221	609.924	0.002	0.170	1.22e-04	1.46e-05	1.65e-05	1.98e-06	0.54	6.47e-02	0.0	0.0
222	819.985	0.001	0.170	1.25e-04	1.50e-05	5.44e-04	6.52e-05	5.99e-03	7.18e-04	0.0	0.0
223	918.591	0.001	0.170	5.83e-04	6.99e-05	1.57e-05	1.88e-06	0.08	9.82e-03	0.0	0.0
224	962.252	0.001	0.170	7.29e-05	8.74e-06	1.66e-05	2.00e-06	0.27	3.21e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.336 sec.
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	0.0	-0.40	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	0.0	-0.54	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	0.0	-0.54	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	0.0	-0.30	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	0.0	-0.54	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	0.0	-0.38	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	0.0	-0.08	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.826	1.211	0.100	10.34	1.2	4.66e-04	5.58e-05	0.0	0.0	0.0	0.0
2	0.829	1.206	0.100	0.03	3.83e-03	0.0	0.0	4.93e-06	0.0	0.0	0.0
3	1.027	0.974	0.111	1.90e-03	2.28e-04	11.57	1.4	1.17e-05	1.40e-06	0.0	0.0
4	1.032	0.969	0.111	9.22e-05	1.11e-05	0.03	3.16e-03	1.34e-05	1.61e-06	0.0	0.0
5	1.248	0.801	0.125	12.09	1.4	4.87e-03	5.84e-04	0.0	0.0	0.0	0.0
6	1.250	0.800	0.125	0.04	4.80e-03	3.36e-06	0.0	4.72e-06	0.0	0.0	0.0
7	1.325	0.755	0.133	2.44e-03	2.92e-04	11.18	1.3	1.62e-06	0.0	0.0	0.0
8	1.327	0.754	0.134	6.60e-05	7.91e-06	0.03	3.78e-03	8.01e-06	0.0	0.0	0.0
9	1.441	0.694	0.160	7.42	0.9	0.0	0.0	1.21e-05	1.45e-06	0.0	0.0
10	1.448	0.691	0.162	0.01	1.73e-03	1.09e-04	1.30e-05	1.13e-05	1.35e-06	0.0	0.0
11	1.512	0.662	0.180	5.95e-06	0.0	3.66	0.4	0.0	0.0	0.0	0.0
12	2.221	0.450	0.293	0.99	0.1	12.15	1.5	1.86e-04	2.23e-05	0.0	0.0
13	2.357	0.424	0.294	177.26	21.3	347.54	41.7	0.03	4.18e-03	0.0	0.0
14	2.979	0.336	0.362	309.79	37.1	180.58	21.7	0.01	1.46e-03	0.0	0.0
15	3.415	0.293	0.408	24.35	2.9	11.31	1.4	6.87e-04	8.23e-05	0.0	0.0
16	3.588	0.279	0.396	23.15	2.8	0.95	0.1	4.29e-03	5.14e-04	0.0	0.0
17	3.910	0.256	0.413	0.17	1.99e-02	3.43	0.4	0.02	2.04e-03	0.0	0.0
18	4.182	0.239	0.385	0.05	6.28e-03	1.58	0.2	8.66e-03	1.04e-03	0.0	0.0
19	4.258	0.235	0.369	4.19e-03	5.03e-04	19.44	2.3	1.57e-04	1.88e-05	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
20	4.383	0.228	0.344	0.29	3.49e-02	40.68	4.9	0.12	1.44e-02	0.0	0.0
21	4.786	0.209	0.297	22.14	2.7	0.0	0.0	1.85e-05	2.22e-06	0.0	0.0
22	5.736	0.174	0.266	0.25	3.03e-02	1.53	0.2	0.07	8.35e-03	0.0	0.0
23	5.940	0.168	0.262	1.62	0.2	9.58	1.1	5.76e-06	0.0	0.0	0.0
24	6.248	0.160	0.256	16.15	1.9	1.26	0.2	0.33	3.97e-02	0.0	0.0
25	6.523	0.153	0.250	8.25	1.0	0.24	2.89e-02	0.11	1.31e-02	0.0	0.0
26	6.741	0.148	0.246	17.88	2.1	0.15	1.82e-02	0.02	2.18e-03	0.0	0.0
27	7.005	0.143	0.241	32.02	3.8	1.10	0.1	0.07	8.21e-03	0.0	0.0
28	7.142	0.140	0.239	2.18	0.3	3.61	0.4	1.16e-04	1.40e-05	0.0	0.0
29	7.352	0.136	0.235	19.26	2.3	0.02	1.89e-03	0.05	5.91e-03	0.0	0.0
30	7.796	0.128	0.227	1.66	0.2	10.67	1.3	4.23e-03	5.07e-04	0.0	0.0
31	8.122	0.123	0.222	6.38	0.8	27.92	3.3	0.07	8.18e-03	0.0	0.0
32	8.223	0.122	0.220	6.14	0.7	1.06	0.1	0.50	6.04e-02	0.0	0.0
33	8.438	0.119	0.221	4.31	0.5	3.43	0.4	0.60	7.20e-02	0.0	0.0
34	8.719	0.115	0.228	5.14e-03	6.16e-04	5.98	0.7	0.13	1.60e-02	0.0	0.0
35	8.921	0.112	0.233	3.32	0.4	15.00	1.8	2.11e-06	0.0	0.0	0.0
36	9.244	0.108	0.240	4.88	0.6	4.37	0.5	0.12	1.39e-02	0.0	0.0
37	9.522	0.105	0.245	0.84	0.1	3.83e-04	4.59e-05	0.0	0.0	0.0	0.0
38	10.700	0.093	0.239	0.93	0.1	1.15	0.1	0.54	6.46e-02	0.0	0.0
39	10.746	0.093	0.238	9.18	1.1	0.10	1.22e-02	1.30	0.2	0.0	0.0
40	10.918	0.092	0.235	0.05	5.94e-03	8.52e-03	1.02e-03	5.00e-03	6.00e-04	0.0	0.0
41	11.346	0.088	0.227	6.38	0.8	7.62e-03	9.13e-04	5.59	0.7	0.0	0.0
42	11.615	0.086	0.223	2.13e-03	2.56e-04	5.46	0.7	1.87e-04	2.25e-05	0.0	0.0
43	12.163	0.082	0.214	5.22e-05	6.25e-06	3.54	0.4	3.47e-03	4.16e-04	0.0	0.0
44	12.465	0.080	0.209	0.44	5.33e-02	0.12	1.40e-02	34.63	4.2	0.0	0.0
45	12.915	0.077	0.203	19.00	2.3	13.69	1.6	0.81	9.77e-02	0.0	0.0
46	13.166	0.076	0.199	7.46	0.9	1.15e-04	1.37e-05	1.67e-03	2.00e-04	0.0	0.0
47	13.409	0.075	0.196	1.47e-03	1.77e-04	0.31	3.74e-02	0.24	2.83e-02	0.0	0.0
48	13.700	0.073	0.192	0.68	8.21e-02	1.64	0.2	0.15	1.80e-02	0.0	0.0
49	14.115	0.071	0.187	0.53	6.39e-02	4.69	0.6	0.31	3.69e-02	0.0	0.0
50	14.303	0.070	0.185	1.00	0.1	2.49	0.3	0.01	1.76e-03	0.0	0.0
51	14.624	0.068	0.181	1.74	0.2	2.10	0.3	1.21	0.1	0.0	0.0
52	14.714	0.068	0.180	0.01	1.52e-03	0.32	3.80e-02	4.37	0.5	0.0	0.0
53	14.954	0.067	0.178	0.39	4.73e-02	0.02	1.94e-03	0.02	2.17e-03	0.0	0.0
54	15.260	0.066	0.175	1.90	0.2	1.27e-03	1.52e-04	0.02	2.05e-03	0.0	0.0
55	15.302	0.065	0.174	0.02	2.21e-03	0.54	6.42e-02	1.05	0.1	0.0	0.0
56	15.347	0.065	0.174	0.10	1.21e-02	0.63	7.56e-02	0.03	3.92e-03	0.0	0.0
57	15.484	0.065	0.173	2.64	0.3	0.01	1.73e-03	0.01	1.49e-03	0.0	0.0
58	15.564	0.064	0.172	1.87	0.2	1.89	0.2	0.01	1.43e-03	0.0	0.0
59	15.653	0.064	0.171	1.21	0.1	4.43	0.5	2.54e-03	3.04e-04	0.0	0.0
60	15.898	0.063	0.169	5.21	0.6	8.17	1.0	0.14	1.63e-02	0.0	0.0
61	16.155	0.062	0.166	0.16	1.97e-02	2.37	0.3	0.03	3.71e-03	0.0	0.0
62	16.334	0.061	0.165	1.08	0.1	5.48e-03	6.58e-04	1.67e-03	2.01e-04	0.0	0.0
63	16.591	0.060	0.162	0.25	3.00e-02	0.28	3.37e-02	9.90	1.2	0.0	0.0
64	16.660	0.060	0.162	3.25	0.4	7.54	0.9	1.20	0.1	0.0	0.0
65	17.106	0.058	0.160	0.27	3.23e-02	7.54e-03	9.04e-04	0.20	2.43e-02	0.0	0.0
66	17.179	0.058	0.159	2.44	0.3	1.36	0.2	1.44	0.2	0.0	0.0
67	17.669	0.057	0.157	0.48	5.79e-02	0.01	1.56e-03	10.63	1.3	0.0	0.0
68	18.008	0.056	0.156	1.89	0.2	3.13	0.4	0.13	1.58e-02	0.0	0.0
69	18.313	0.055	0.154	0.46	5.48e-02	1.71e-04	2.05e-05	0.01	1.46e-03	0.0	0.0
70	18.475	0.054	0.154	0.43	5.17e-02	0.02	2.60e-03	0.02	2.17e-03	0.0	0.0
71	18.824	0.053	0.152	0.85	0.1	2.23	0.3	0.60	7.24e-02	0.0	0.0
72	18.927	0.053	0.152	0.14	1.70e-02	3.67	0.4	5.39	0.6	0.0	0.0
73	19.268	0.052	0.151	2.11	0.3	0.14	1.71e-02	7.32	0.9	0.0	0.0
74	19.434	0.051	0.150	3.36	0.4	1.68	0.2	4.88	0.6	0.0	0.0
75	19.650	0.051	0.149	0.50	6.05e-02	0.23	2.76e-02	1.18	0.1	0.0	0.0
76	20.203	0.049	0.148	0.13	1.55e-02	0.09	1.13e-02	0.22	2.63e-02	0.0	0.0
77	20.933	0.048	0.145	0.81	9.67e-02	1.11	0.1	7.03	0.8	0.0	0.0
78	21.332	0.047	0.144	0.17	2.02e-02	0.05	5.51e-03	1.46	0.2	0.0	0.0
79	21.944	0.046	0.142	0.60	7.19e-02	0.84	0.1	7.40	0.9	0.0	0.0
80	22.263	0.045	0.141	7.75e-03	9.29e-04	0.20	2.41e-02	1.44	0.2	0.0	0.0
81	23.096	0.043	0.139	0.10	1.19e-02	0.40	4.74e-02	3.28	0.4	0.0	0.0
82	23.276	0.043	0.139	0.57	6.83e-02	0.02	2.24e-03	2.38	0.3	0.0	0.0
83	23.449	0.043	0.138	2.80	0.3	4.76e-03	5.71e-04	15.79	1.9	0.0	0.0
84	24.402	0.041	0.136	0.17	2.00e-02	3.24e-03	3.89e-04	5.12	0.6	0.0	0.0
85	25.005	0.040	0.135	0.02	1.87e-03	1.90	0.2	0.09	1.09e-02	0.0	0.0
86	25.304	0.040	0.135	0.61	7.26e-02	1.09e-06	0.0	7.52e-03	9.02e-04	0.0	0.0
87	25.399	0.039	0.135	1.80e-04	2.15e-05	0.16	1.98e-02	0.22	2.65e-02	0.0	0.0
88	25.737	0.039	0.134	3.72	0.4	0.05	5.69e-03	0.11	1.31e-02	0.0	0.0
89	25.890	0.039	0.134	0.22	2.69e-02	2.80e-06	0.0	0.01	1.35e-03	0.0	0.0
90	26.298	0.038	0.134	0.05	5.97e-03	8.47e-04	1.02e-04	1.34	0.2	0.0	0.0
91	26.355	0.038	0.134	0.01	1.65e-03	0.01	1.64e-03	2.50	0.3	0.0	0.0
92	27.100	0.037	0.134	0.04	4.66e-03	0.04	5.16e-03	3.23	0.4	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
93	27.382	0.037	0.134	1.08	0.1	8.38e-05	1.00e-05	0.08	9.00e-03	0.0	0.0
94	28.131	0.036	0.134	2.40e-04	2.88e-05	3.55e-04	4.25e-05	8.17	1.0	0.0	0.0
95	28.251	0.035	0.134	1.28e-04	1.53e-05	6.20e-03	7.44e-04	52.98	6.4	0.0	0.0
96	28.637	0.035	0.134	0.37	4.46e-02	3.07e-03	3.69e-04	0.21	2.56e-02	0.0	0.0
97	29.470	0.034	0.133	0.02	2.86e-03	0.07	8.56e-03	2.73e-05	3.28e-06	0.0	0.0
98	30.316	0.033	0.133	0.33	3.92e-02	1.29	0.2	1.15e-04	1.38e-05	0.0	0.0
99	30.807	0.032	0.133	3.12	0.4	0.13	1.51e-02	0.01	1.58e-03	0.0	0.0
100	31.784	0.031	0.133	0.10	1.25e-02	0.13	1.58e-02	1.30	0.2	0.0	0.0
101	31.819	0.031	0.133	0.09	1.08e-02	0.06	7.10e-03	2.91	0.3	0.0	0.0
102	33.119	0.030	0.133	4.03	0.5	6.72e-03	8.05e-04	0.47	5.61e-02	0.0	0.0
103	34.366	0.029	0.132	4.08	0.5	0.09	1.06e-02	0.32	3.79e-02	0.0	0.0
104	34.494	0.029	0.132	0.04	5.11e-03	5.22e-03	6.25e-04	11.46	1.4	0.0	0.0
105	36.258	0.028	0.132	6.28e-04	7.53e-05	2.16e-03	2.59e-04	5.28	0.6	0.0	0.0
106	36.327	0.028	0.132	1.60e-03	1.92e-04	0.13	1.54e-02	0.72	8.69e-02	0.0	0.0
107	36.715	0.027	0.132	0.16	1.87e-02	1.06e-05	1.27e-06	0.02	2.15e-03	0.0	0.0
108	36.955	0.027	0.132	3.16e-04	3.78e-05	2.51e-04	3.01e-05	26.63	3.2	0.0	0.0
109	37.278	0.027	0.132	1.71e-03	2.05e-04	0.42	4.98e-02	0.09	1.06e-02	0.0	0.0
110	37.396	0.027	0.132	6.21e-04	7.44e-05	0.03	3.31e-03	4.95e-03	5.93e-04	0.0	0.0
111	37.678	0.027	0.132	0.02	2.99e-03	0.01	1.64e-03	1.85e-04	2.22e-05	0.0	0.0
112	38.134	0.026	0.132	0.02	2.62e-03	5.57e-04	6.68e-05	0.01	1.20e-03	0.0	0.0
113	41.227	0.024	0.131	1.01e-03	1.22e-04	8.20e-04	9.83e-05	58.23	7.0	0.0	0.0
114	41.381	0.024	0.131	2.31e-05	2.77e-06	6.00e-03	7.20e-04	1.38e-04	1.66e-05	0.0	0.0
115	41.732	0.024	0.131	0.01	1.74e-03	0.02	2.67e-03	0.25	3.00e-02	0.0	0.0
116	41.770	0.024	0.131	0.04	4.33e-03	0.02	1.82e-03	17.71	2.1	0.0	0.0
117	41.995	0.024	0.131	4.65e-03	5.58e-04	4.42e-03	5.30e-04	0.01	1.36e-03	0.0	0.0
118	42.378	0.024	0.131	2.35e-04	2.81e-05	0.03	4.00e-03	0.03	3.95e-03	0.0	0.0
119	42.601	0.023	0.131	5.33e-03	6.39e-04	8.61e-04	1.03e-04	8.60e-03	1.03e-03	0.0	0.0
120	44.162	0.023	0.131	0.22	2.68e-02	2.53	0.3	2.33e-03	2.79e-04	0.0	0.0
121	45.605	0.022	0.131	1.26e-03	1.51e-04	4.89e-03	5.87e-04	0.07	7.99e-03	0.0	0.0
122	46.393	0.022	0.131	6.89e-05	8.26e-06	0.02	2.54e-03	47.04	5.6	0.0	0.0
123	46.532	0.021	0.131	3.65e-03	4.38e-04	2.78e-03	3.33e-04	2.71	0.3	0.0	0.0
124	46.883	0.021	0.131	7.35e-04	8.82e-05	3.77e-03	4.52e-04	11.85	1.4	0.0	0.0
125	47.132	0.021	0.131	0.24	2.82e-02	1.34	0.2	0.95	0.1	0.0	0.0
126	47.418	0.021	0.131	3.82e-03	4.59e-04	0.05	6.41e-03	9.67	1.2	0.0	0.0
127	48.627	0.021	0.131	1.30e-06	0.0	8.09	1.0	2.79e-03	3.34e-04	0.0	0.0
128	49.257	0.020	0.131	6.32e-05	7.57e-06	8.87e-03	1.06e-03	101.43	12.2	0.0	0.0
129	49.683	0.020	0.131	5.81e-04	6.97e-05	6.63e-03	7.95e-04	1.56	0.2	0.0	0.0
130	50.740	0.020	0.131	9.10e-03	1.09e-03	0.11	1.33e-02	28.78	3.5	0.0	0.0
131	52.820	0.019	0.131	0.0	0.0	2.41e-06	0.0	37.23	4.5	0.0	0.0
132	53.439	0.019	0.131	2.67e-03	3.21e-04	0.02	2.84e-03	1.28	0.2	0.0	0.0
133	54.065	0.018	0.131	1.58e-06	0.0	3.54e-03	4.24e-04	16.70	2.0	0.0	0.0
134	54.247	0.018	0.131	2.89e-03	3.47e-04	0.07	7.99e-03	3.46e-03	4.15e-04	0.0	0.0
135	54.265	0.018	0.131	0.11	1.34e-02	1.00e-04	1.20e-05	5.57e-03	6.67e-04	0.0	0.0
136	54.323	0.018	0.131	3.24	0.4	1.27e-05	1.52e-06	8.03	1.0	0.0	0.0
137	54.546	0.018	0.131	3.99e-04	4.79e-05	9.53e-05	1.14e-05	0.02	2.73e-03	0.0	0.0
138	54.700	0.018	0.131	0.10	1.20e-02	2.37e-03	2.85e-04	0.27	3.22e-02	0.0	0.0
139	54.907	0.018	0.131	2.09	0.3	1.32e-06	0.0	9.13	1.1	0.0	0.0
140	54.996	0.018	0.131	2.95e-03	3.54e-04	0.03	3.31e-03	27.60	3.3	0.0	0.0
141	55.353	0.018	0.131	4.60e-05	5.51e-06	1.48e-04	1.77e-05	5.03e-03	6.03e-04	0.0	0.0
142	58.241	0.017	0.131	1.63e-05	1.95e-06	7.22	0.9	5.18	0.6	0.0	0.0
143	58.960	0.017	0.131	0.05	6.39e-03	3.01e-03	3.60e-04	12.55	1.5	0.0	0.0
144	59.042	0.017	0.131	0.08	9.62e-03	5.51e-03	6.60e-04	21.02	2.5	0.0	0.0
145	59.442	0.017	0.131	4.19e-04	5.02e-05	7.00e-04	8.39e-05	3.61e-03	4.33e-04	0.0	0.0
146	59.911	0.017	0.131	7.79	0.9	0.0	0.0	5.07	0.6	0.0	0.0
147	60.697	0.016	0.131	0.03	3.01e-03	4.26e-04	5.11e-05	3.43	0.4	0.0	0.0
148	60.699	0.016	0.131	4.95e-03	5.94e-04	2.91e-03	3.49e-04	20.92	2.5	0.0	0.0
149	61.066	0.016	0.131	5.41e-03	6.49e-04	2.28e-04	2.74e-05	0.04	4.50e-03	0.0	0.0
150	61.693	0.016	0.131	2.32e-04	2.78e-05	0.0	0.0	14.76	1.8	0.0	0.0
151	61.730	0.016	0.131	3.62e-05	4.33e-06	2.67e-04	3.20e-05	12.77	1.5	0.0	0.0
152	62.371	0.016	0.131	0.88	0.1	0.03	4.04e-03	5.08	0.6	0.0	0.0
153	63.120	0.016	0.131	0.0	0.0	0.23	2.81e-02	0.02	2.96e-03	0.0	0.0
154	65.044	0.015	0.131	0.19	2.28e-02	1.20e-06	0.0	0.03	3.34e-03	0.0	0.0
155	65.307	0.015	0.131	0.06	7.21e-03	7.52e-04	9.02e-05	0.04	4.57e-03	0.0	0.0
156	66.037	0.015	0.131	0.82	9.87e-02	0.04	4.59e-03	1.15	0.1	0.0	0.0
157	69.097	0.014	0.131	2.40e-06	0.0	7.41e-04	8.88e-05	0.13	1.50e-02	0.0	0.0
158	70.051	0.014	0.131	0.11	1.27e-02	1.15e-03	1.37e-04	0.02	1.93e-03	0.0	0.0
159	70.227	0.014	0.131	1.10e-04	1.32e-05	0.02	1.84e-03	0.02	2.38e-03	0.0	0.0
160	70.289	0.014	0.131	3.54e-04	4.24e-05	2.43e-03	2.92e-04	0.05	5.59e-03	0.0	0.0
161	70.931	0.014	0.131	9.20e-04	1.10e-04	0.02	2.81e-03	0.08	9.73e-03	0.0	0.0
162	72.924	0.014	0.131	0.03	3.44e-03	5.67e-04	6.80e-05	0.04	4.67e-03	0.0	0.0
163	73.405	0.014	0.131	1.99e-03	2.39e-04	1.46e-04	1.75e-05	0.49	5.89e-02	0.0	0.0
164	73.734	0.014	0.131	0.01	1.32e-03	8.20e-03	9.84e-04	0.44	5.28e-02	0.0	0.0
165	75.595	0.013	0.131	6.58e-04	7.89e-05	0.08	9.53e-03	0.02	2.33e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
166	76.135	0.013	0.131	3.60e-03	4.32e-04	5.18e-03	6.22e-04	0.31	3.77e-02	0.0	0.0
167	78.631	0.013	0.131	2.23e-03	2.67e-04	0.19	2.31e-02	0.06	7.03e-03	0.0	0.0
168	79.225	0.013	0.131	1.27e-03	1.53e-04	6.03e-05	7.23e-06	0.46	5.52e-02	0.0	0.0
169	79.613	0.013	0.131	1.81e-03	2.17e-04	3.94e-03	4.73e-04	1.04	0.1	0.0	0.0
170	79.951	0.013	0.131	3.38e-05	4.05e-06	2.87e-03	3.45e-04	14.57	1.7	0.0	0.0
171	82.570	0.012	0.131	0.20	2.36e-02	1.42e-03	1.70e-04	0.39	4.72e-02	0.0	0.0
172	83.142	0.012	0.131	1.93e-03	2.31e-04	0.27	3.22e-02	0.92	0.1	0.0	0.0
173	83.665	0.012	0.131	4.39e-04	5.26e-05	0.03	3.64e-03	2.41	0.3	0.0	0.0
174	84.860	0.012	0.131	2.86e-04	3.43e-05	2.36e-03	2.83e-04	1.27	0.2	0.0	0.0
175	87.778	0.011	0.131	3.88e-03	4.66e-04	1.73e-04	2.07e-05	0.02	2.54e-03	0.0	0.0
176	89.054	0.011	0.131	2.40e-06	0.0	0.01	1.31e-03	2.30	0.3	0.0	0.0
177	89.559	0.011	0.131	7.75e-05	9.30e-06	0.26	3.07e-02	0.55	6.65e-02	0.0	0.0
178	91.748	0.011	0.131	4.30e-03	5.16e-04	0.07	7.80e-03	0.02	2.68e-03	0.0	0.0
179	92.158	0.011	0.131	0.05	5.75e-03	4.11e-03	4.92e-04	0.01	1.67e-03	0.0	0.0
180	94.211	0.011	0.131	9.04e-04	1.08e-04	8.20e-04	9.84e-05	0.51	6.11e-02	0.0	0.0
181	96.032	0.010	0.131	2.64e-04	3.17e-05	0.33	3.93e-02	0.17	2.00e-02	0.0	0.0
182	98.429	0.010	0.131	0.02	1.94e-03	6.88e-03	8.24e-04	0.23	2.73e-02	0.0	0.0
183	99.738	0.010	0.131	7.15e-04	8.57e-05	0.03	3.21e-03	1.65	0.2	0.0	0.0
184	100.763	0.010	0.131	1.82e-03	2.18e-04	4.55e-03	5.45e-04	0.67	8.02e-02	0.0	0.0
185	105.099	0.010	0.131	3.76e-04	4.51e-05	1.23e-03	1.48e-04	2.21	0.3	0.0	0.0
186	106.493	0.009	0.131	3.48e-04	4.17e-05	6.15e-04	7.38e-05	5.03	0.6	0.0	0.0
187	107.986	0.009	0.131	4.05e-03	4.85e-04	5.34e-04	6.40e-05	0.87	0.1	0.0	0.0
188	109.584	0.009	0.131	2.34e-05	2.81e-06	0.07	8.39e-03	0.04	4.86e-03	0.0	0.0
189	113.424	0.009	0.131	4.10e-04	4.92e-05	2.59e-04	3.11e-05	0.76	9.08e-02	0.0	0.0
190	116.999	0.009	0.131	1.58e-06	0.0	0.01	1.54e-03	0.04	4.47e-03	0.0	0.0
191	124.081	0.008	0.131	0.04	4.78e-03	3.67e-04	4.40e-05	0.02	2.37e-03	0.0	0.0
192	126.596	0.008	0.131	0.50	5.96e-02	0.06	6.77e-03	1.87e-05	2.24e-06	0.0	0.0
193	132.332	0.008	0.131	8.72e-03	1.05e-03	8.91e-03	1.07e-03	0.42	5.09e-02	0.0	0.0
194	135.337	0.007	0.131	8.78e-03	1.05e-03	6.55e-03	7.85e-04	3.39	0.4	0.0	0.0
195	139.073	0.007	0.131	0.29	3.44e-02	0.25	3.03e-02	3.18e-03	3.82e-04	0.0	0.0
196	146.215	0.007	0.131	4.37e-03	5.24e-04	9.01e-03	1.08e-03	16.85	2.0	0.0	0.0
197	148.882	0.007	0.131	0.09	1.11e-02	0.10	1.15e-02	0.07	8.21e-03	0.0	0.0
198	150.626	0.007	0.131	0.14	1.67e-02	0.02	2.44e-03	0.58	6.99e-02	0.0	0.0
199	154.420	0.006	0.131	0.13	1.60e-02	0.02	1.99e-03	6.71	0.8	0.0	0.0
200	155.716	0.006	0.131	0.17	2.08e-02	0.08	9.19e-03	3.32	0.4	0.0	0.0
201	170.444	0.006	0.131	0.23	2.79e-02	0.08	9.41e-03	0.46	5.56e-02	0.0	0.0
202	173.897	0.006	0.131	5.11e-05	6.12e-06	9.41e-06	1.13e-06	10.96	1.3	0.0	0.0
203	176.806	0.006	0.131	0.03	3.68e-03	0.10	1.22e-02	7.84e-06	0.0	0.0	0.0
204	186.898	0.005	0.131	0.09	1.08e-02	0.03	3.81e-03	0.40	4.74e-02	0.0	0.0
205	192.469	0.005	0.131	6.00e-04	7.19e-05	0.03	3.02e-03	1.26	0.2	0.0	0.0
206	194.554	0.005	0.131	0.05	5.43e-03	0.04	4.24e-03	0.61	7.27e-02	0.0	0.0
207	213.039	0.005	0.131	0.05	6.01e-03	0.01	1.39e-03	0.05	6.27e-03	0.0	0.0
208	219.341	0.005	0.131	4.66e-03	5.59e-04	0.07	8.54e-03	1.71e-03	2.05e-04	0.0	0.0
209	220.784	0.005	0.131	5.15e-04	6.17e-05	6.71e-04	8.05e-05	4.45	0.5	0.0	0.0
210	260.551	0.004	0.131	0.05	6.56e-03	0.05	5.50e-03	0.03	3.48e-03	0.0	0.0
211	263.897	0.004	0.131	3.73e-03	4.47e-04	0.05	5.70e-03	0.28	3.38e-02	0.0	0.0
212	265.546	0.004	0.131	1.32e-03	1.59e-04	3.81e-03	4.56e-04	2.35	0.3	0.0	0.0
213	290.562	0.003	0.131	3.02e-03	3.62e-04	0.07	8.15e-03	1.11e-03	1.33e-04	0.0	0.0
214	304.050	0.003	0.131	0.13	1.61e-02	8.48e-04	1.02e-04	3.05e-03	3.66e-04	0.0	0.0
215	334.211	0.003	0.131	2.17e-03	2.60e-04	1.87e-06	0.0	0.79	9.51e-02	0.0	0.0
216	358.137	0.003	0.131	0.01	1.36e-03	1.92e-04	2.30e-05	0.08	1.01e-02	0.0	0.0
217	385.392	0.003	0.131	2.38e-04	2.86e-05	2.11e-03	2.53e-04	1.34e-03	1.60e-04	0.0	0.0
218	414.062	0.002	0.131	1.03e-04	1.23e-05	1.69e-04	2.02e-05	0.89	0.1	0.0	0.0
219	547.766	0.002	0.131	8.11e-04	9.72e-05	7.17e-04	8.60e-05	0.27	3.26e-02	0.0	0.0
220	559.019	0.002	0.131	3.92e-03	4.71e-04	6.96e-04	8.35e-05	0.15	1.82e-02	0.0	0.0
221	605.067	0.002	0.131	1.46e-04	1.75e-05	3.59e-05	4.30e-06	0.55	6.65e-02	0.0	0.0
222	821.320	0.001	0.131	2.04e-04	2.45e-05	5.40e-04	6.48e-05	3.15e-03	3.78e-04	0.0	0.0
223	915.271	0.001	0.131	5.66e-04	6.79e-05	2.85e-05	3.42e-06	0.08	9.13e-03	0.0	0.0
224	957.242	0.001	0.131	6.01e-05	7.21e-06	9.31e-06	1.12e-06	0.28	3.37e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.343 sec.
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	0.0	0.40	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	0.0	0.54	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	0.0	0.54	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	0.0	0.30	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	0.0	0.54	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	0.0	0.38	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	0.0	0.08	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.861	1.161	0.102	9.51	1.1	4.90e-04	5.87e-05	0.0	0.0	0.0	0.0
2	0.864	1.157	0.102	0.03	3.55e-03	0.0	0.0	5.36e-06	0.0	0.0	0.0
3	1.027	0.974	0.111	1.98e-03	2.37e-04	11.57	1.4	1.17e-05	1.40e-06	0.0	0.0
4	1.032	0.969	0.111	1.41e-04	1.69e-05	0.03	3.16e-03	1.34e-05	1.60e-06	0.0	0.0
5	1.325	0.755	0.133	4.07e-03	4.88e-04	11.19	1.3	1.48e-06	0.0	0.0	0.0
6	1.327	0.754	0.134	1.20e-04	1.43e-05	0.03	3.76e-03	8.08e-06	0.0	0.0	0.0
7	1.418	0.705	0.155	9.81	1.2	8.37e-03	1.00e-03	0.0	0.0	0.0	0.0
8	1.420	0.704	0.155	0.03	3.77e-03	6.58e-06	0.0	6.19e-06	0.0	0.0	0.0
9	1.512	0.662	0.180	2.14e-06	0.0	3.66	0.4	0.0	0.0	0.0	0.0
10	1.589	0.629	0.209	6.06	0.7	2.21e-06	0.0	1.43e-05	1.71e-06	0.0	0.0
11	1.597	0.626	0.212	0.01	1.47e-03	1.40e-04	1.68e-05	1.37e-05	1.64e-06	0.0	0.0
12	2.221	0.450	0.293	1.26	0.2	12.60	1.5	2.46e-04	2.94e-05	0.0	0.0
13	2.359	0.424	0.294	183.63	22.0	340.08	40.8	0.04	4.85e-03	0.0	0.0
14	2.912	0.343	0.344	267.98	32.1	179.85	21.6	0.02	2.09e-03	0.0	0.0
15	3.536	0.283	0.397	13.68	1.6	0.49	5.87e-02	2.73e-03	3.28e-04	0.0	0.0
16	3.577	0.280	0.395	66.91	8.0	19.43	2.3	1.40e-04	1.68e-05	0.0	0.0
17	4.084	0.245	0.396	0.52	6.28e-02	0.03	4.19e-03	0.03	3.08e-03	0.0	0.0
18	4.258	0.235	0.369	3.42e-03	4.10e-04	18.09	2.2	2.19e-04	2.63e-05	0.0	0.0
19	4.274	0.234	0.366	0.04	4.99e-03	2.29	0.3	1.16e-03	1.39e-04	0.0	0.0
20	4.379	0.228	0.344	0.15	1.74e-02	45.56	5.5	0.12	1.40e-02	0.0	0.0
21	5.176	0.193	0.279	24.26	2.9	0.03	3.35e-03	0.23	2.73e-02	0.0	0.0
22	5.588	0.179	0.269	16.37	2.0	1.21e-04	1.45e-05	1.80e-05	2.15e-06	0.0	0.0
23	5.839	0.171	0.264	4.10e-03	4.92e-04	0.16	1.96e-02	2.29e-03	2.74e-04	0.0	0.0
24	5.946	0.168	0.262	3.71	0.4	10.33	1.2	3.98e-03	4.77e-04	0.0	0.0
25	6.399	0.156	0.253	2.28	0.3	1.39	0.2	4.49e-03	5.39e-04	0.0	0.0
26	6.827	0.146	0.245	1.00	0.1	0.06	6.64e-03	1.48e-03	1.77e-04	0.0	0.0
27	6.990	0.143	0.242	28.70	3.4	1.01	0.1	0.04	4.65e-03	0.0	0.0
28	7.200	0.139	0.238	0.14	1.63e-02	4.69	0.6	1.40e-03	1.68e-04	0.0	0.0
29	7.388	0.135	0.234	42.71	5.1	0.76	9.11e-02	0.13	1.61e-02	0.0	0.0
30	7.837	0.128	0.226	0.14	1.68e-02	24.16	2.9	0.02	2.50e-03	0.0	0.0
31	8.065	0.124	0.222	1.63	0.2	2.84	0.3	0.08	9.09e-03	0.0	0.0
32	8.349	0.120	0.219	0.35	4.19e-02	0.84	0.1	1.03	0.1	0.0	0.0
33	8.412	0.119	0.220	15.49	1.9	9.75	1.2	0.08	1.02e-02	0.0	0.0
34	8.806	0.114	0.230	2.94	0.4	25.01	3.0	0.10	1.20e-02	0.0	0.0
35	8.989	0.111	0.234	3.98	0.5	0.04	5.39e-03	0.11	1.32e-02	0.0	0.0
36	9.404	0.106	0.243	1.08	0.1	2.05	0.2	7.44e-03	8.92e-04	0.0	0.0
37	9.856	0.101	0.252	7.00	0.8	0.25	2.96e-02	0.93	0.1	0.0	0.0
38	10.044	0.100	0.253	4.92	0.6	0.02	1.81e-03	2.18	0.3	0.0	0.0
39	10.181	0.098	0.250	6.11	0.7	0.19	2.27e-02	1.68	0.2	0.0	0.0
40	10.468	0.096	0.244	6.02e-04	7.21e-05	0.58	6.93e-02	7.19e-03	8.62e-04	0.0	0.0
41	10.818	0.092	0.237	2.06	0.2	2.13	0.3	0.02	2.01e-03	0.0	0.0
42	11.615	0.086	0.223	2.55e-04	3.06e-05	5.51	0.7	8.46e-04	1.01e-04	0.0	0.0
43	12.166	0.082	0.214	0.04	4.72e-03	4.15	0.5	4.29e-03	5.14e-04	0.0	0.0
44	12.425	0.080	0.210	15.70	1.9	6.61	0.8	9.23	1.1	0.0	0.0
45	12.492	0.080	0.209	6.03	0.7	2.62	0.3	26.50	3.2	0.0	0.0
46	13.128	0.076	0.200	3.92	0.5	0.44	5.30e-02	2.69e-03	3.23e-04	0.0	0.0
47	13.415	0.075	0.196	0.39	4.68e-02	1.39	0.2	0.27	3.28e-02	0.0	0.0
48	13.599	0.074	0.193	0.72	8.66e-02	7.45	0.9	3.19e-04	3.83e-05	0.0	0.0
49	13.880	0.072	0.190	0.40	4.84e-02	2.00	0.2	0.11	1.32e-02	0.0	0.0
50	14.317	0.070	0.185	0.02	2.60e-03	0.15	1.76e-02	0.54	6.51e-02	0.0	0.0
51	14.515	0.069	0.183	4.71e-03	5.64e-04	2.89	0.3	0.14	1.69e-02	0.0	0.0
52	14.715	0.068	0.180	4.81e-03	5.77e-04	0.35	4.24e-02	5.33	0.6	0.0	0.0
53	14.906	0.067	0.178	0.40	4.77e-02	0.08	9.85e-03	0.02	2.78e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
54	15.141	0.066	0.176	0.36	4.30e-02	0.03	3.11e-03	0.15	1.86e-02	0.0	0.0
55	15.302	0.065	0.174	0.03	3.51e-03	0.61	7.35e-02	1.76	0.2	0.0	0.0
56	15.349	0.065	0.174	0.12	1.38e-02	0.01	1.26e-03	6.36	0.8	0.0	0.0
57	15.401	0.065	0.173	0.07	8.44e-03	0.48	5.79e-02	0.88	0.1	0.0	0.0
58	15.541	0.064	0.172	0.98	0.1	5.60	0.7	0.01	1.29e-03	0.0	0.0
59	15.635	0.064	0.171	3.14	0.4	1.67	0.2	0.01	1.26e-03	0.0	0.0
60	15.829	0.063	0.169	4.15	0.5	2.01	0.2	2.10e-03	2.52e-04	0.0	0.0
61	16.091	0.062	0.167	0.92	0.1	6.56e-04	7.86e-05	2.48e-04	2.97e-05	0.0	0.0
62	16.154	0.062	0.166	0.38	4.60e-02	5.59	0.7	0.08	9.29e-03	0.0	0.0
63	16.336	0.061	0.165	1.14	0.1	0.31	3.74e-02	0.01	1.29e-03	0.0	0.0
64	16.593	0.060	0.162	0.08	9.82e-03	0.56	6.71e-02	10.50	1.3	0.0	0.0
65	16.742	0.060	0.161	2.71	0.3	10.43	1.3	0.80	9.60e-02	0.0	0.0
66	16.774	0.060	0.161	6.19	0.7	0.42	5.08e-02	0.02	2.13e-03	0.0	0.0
67	17.498	0.057	0.158	0.89	0.1	1.11	0.1	0.19	2.25e-02	0.0	0.0
68	17.726	0.056	0.157	1.46	0.2	0.09	1.04e-02	1.26	0.2	0.0	0.0
69	17.963	0.056	0.156	0.27	3.30e-02	2.90	0.3	2.93e-05	3.51e-06	0.0	0.0
70	18.272	0.055	0.155	0.28	3.30e-02	0.03	3.28e-03	0.06	6.97e-03	0.0	0.0
71	18.423	0.054	0.154	6.45	0.8	0.27	3.20e-02	1.60	0.2	0.0	0.0
72	18.554	0.054	0.154	2.64	0.3	0.03	3.72e-03	0.06	7.31e-03	0.0	0.0
73	18.887	0.053	0.152	1.05	0.1	5.14	0.6	5.45	0.7	0.0	0.0
74	18.931	0.053	0.152	1.16	0.1	0.25	3.03e-02	2.61	0.3	0.0	0.0
75	18.973	0.053	0.152	2.49	0.3	0.79	9.47e-02	0.69	8.22e-02	0.0	0.0
76	19.748	0.051	0.149	1.03	0.1	1.05	0.1	0.08	9.20e-03	0.0	0.0
77	20.317	0.049	0.147	0.14	1.68e-02	0.07	8.50e-03	3.36	0.4	0.0	0.0
78	20.521	0.049	0.147	0.26	3.12e-02	0.09	1.11e-02	17.79	2.1	0.0	0.0
79	21.792	0.046	0.143	0.26	3.16e-02	1.49	0.2	1.00	0.1	0.0	0.0
80	22.111	0.045	0.142	0.27	3.26e-02	0.44	5.22e-02	3.37	0.4	0.0	0.0
81	22.382	0.045	0.141	2.31e-03	2.77e-04	0.29	3.44e-02	20.14	2.4	0.0	0.0
82	23.168	0.043	0.139	2.23e-03	2.67e-04	0.11	1.30e-02	10.93	1.3	0.0	0.0
83	23.859	0.042	0.137	0.53	6.37e-02	8.81e-03	1.06e-03	0.53	6.36e-02	0.0	0.0
84	23.937	0.042	0.137	1.22	0.1	7.31e-03	8.77e-04	1.46e-03	1.75e-04	0.0	0.0
85	24.883	0.040	0.135	0.05	6.05e-03	1.94	0.2	0.02	1.84e-03	0.0	0.0
86	25.292	0.040	0.135	0.06	7.65e-03	1.19e-03	1.43e-04	0.01	1.31e-03	0.0	0.0
87	25.399	0.039	0.135	8.67e-04	1.04e-04	0.17	2.00e-02	0.22	2.61e-02	0.0	0.0
88	25.611	0.039	0.134	0.47	5.63e-02	1.10e-03	1.32e-04	0.01	1.52e-03	0.0	0.0
89	25.813	0.039	0.134	0.05	6.48e-03	0.04	4.61e-03	3.28	0.4	0.0	0.0
90	26.298	0.038	0.134	5.01e-03	6.00e-04	4.49e-03	5.39e-04	0.02	1.99e-03	0.0	0.0
91	26.377	0.038	0.134	0.02	2.98e-03	0.02	1.92e-03	1.22	0.1	0.0	0.0
92	26.904	0.037	0.134	1.43	0.2	1.91e-03	2.29e-04	0.12	1.39e-02	0.0	0.0
93	27.250	0.037	0.134	2.30	0.3	0.03	3.91e-03	0.04	4.68e-03	0.0	0.0
94	28.108	0.036	0.134	4.75e-03	5.69e-04	2.21e-04	2.65e-05	12.88	1.5	0.0	0.0
95	28.247	0.035	0.134	5.72e-03	6.86e-04	8.85e-03	1.06e-03	49.86	6.0	0.0	0.0
96	28.764	0.035	0.134	3.20e-03	3.84e-04	0.02	2.09e-03	0.23	2.76e-02	0.0	0.0
97	29.052	0.034	0.134	0.91	0.1	8.58e-03	1.03e-03	0.03	3.07e-03	0.0	0.0
98	29.480	0.034	0.133	5.71	0.7	0.56	6.72e-02	0.07	8.05e-03	0.0	0.0
99	30.026	0.033	0.133	1.22	0.1	0.02	2.69e-03	0.05	6.48e-03	0.0	0.0
100	30.480	0.033	0.133	1.56	0.2	0.68	8.13e-02	0.03	3.26e-03	0.0	0.0
101	31.261	0.032	0.133	0.22	2.69e-02	0.39	4.65e-02	0.01	1.55e-03	0.0	0.0
102	31.768	0.031	0.133	0.01	1.24e-03	3.50e-05	4.19e-06	4.71	0.6	0.0	0.0
103	34.495	0.029	0.132	8.73e-05	1.05e-05	0.01	1.34e-03	10.91	1.3	0.0	0.0
104	36.131	0.028	0.132	4.21	0.5	0.03	3.46e-03	2.39	0.3	0.0	0.0
105	36.252	0.028	0.132	0.06	7.04e-03	9.11e-05	1.09e-05	4.79	0.6	0.0	0.0
106	36.325	0.028	0.132	0.03	3.25e-03	0.14	1.66e-02	0.43	5.13e-02	0.0	0.0
107	36.582	0.027	0.132	0.26	3.16e-02	2.24e-05	2.69e-06	0.06	6.81e-03	0.0	0.0
108	36.960	0.027	0.132	1.52e-03	1.82e-04	1.76e-04	2.10e-05	26.20	3.1	0.0	0.0
109	37.283	0.027	0.132	0.01	1.44e-03	0.44	5.22e-02	0.09	1.13e-02	0.0	0.0
110	37.373	0.027	0.132	4.47e-05	5.36e-06	0.01	1.59e-03	3.18e-03	3.81e-04	0.0	0.0
111	37.505	0.027	0.132	0.03	3.90e-03	7.49e-03	8.98e-04	0.01	1.28e-03	0.0	0.0
112	37.765	0.026	0.132	0.16	1.96e-02	7.10e-03	8.51e-04	0.01	1.67e-03	0.0	0.0
113	40.397	0.025	0.131	0.02	1.93e-03	1.50e-06	0.0	0.02	2.97e-03	0.0	0.0
114	41.206	0.024	0.131	4.58e-05	5.49e-06	5.26e-04	6.31e-05	59.81	7.2	0.0	0.0
115	41.390	0.024	0.131	3.12e-06	0.0	5.89e-03	7.07e-04	0.02	2.66e-03	0.0	0.0
116	41.710	0.024	0.131	0.02	2.11e-03	9.08e-03	1.09e-03	1.02	0.1	0.0	0.0
117	41.755	0.024	0.131	0.01	1.47e-03	0.03	3.45e-03	16.91	2.0	0.0	0.0
118	41.983	0.024	0.131	6.70e-03	8.04e-04	3.61e-03	4.33e-04	4.24e-03	5.08e-04	0.0	0.0
119	42.377	0.024	0.131	3.70e-03	4.44e-04	9.84e-03	1.18e-03	0.03	3.16e-03	0.0	0.0
120	43.209	0.023	0.131	0.25	2.95e-02	1.83	0.2	0.03	3.06e-03	0.0	0.0
121	45.601	0.022	0.131	8.33e-06	0.0	6.25e-06	0.0	0.45	5.37e-02	0.0	0.0
122	46.203	0.022	0.131	9.45	1.1	5.05e-05	6.05e-06	6.16e-03	7.38e-04	0.0	0.0
123	46.318	0.022	0.131	3.66e-03	4.38e-04	0.02	2.90e-03	39.48	4.7	0.0	0.0
124	46.459	0.022	0.131	1.55e-03	1.86e-04	0.04	4.32e-03	6.44	0.8	0.0	0.0
125	46.615	0.021	0.131	0.10	1.22e-02	2.07	0.2	0.02	1.95e-03	0.0	0.0
126	46.898	0.021	0.131	1.41e-03	1.69e-04	0.05	5.99e-03	11.63	1.4	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
127	47.384	0.021	0.131	3.50e-05	4.20e-06	0.03	3.78e-03	13.51	1.6	0.0	0.0
128	48.627	0.021	0.131	1.75e-06	0.0	8.08	1.0	2.24e-03	2.68e-04	0.0	0.0
129	49.254	0.020	0.131	1.74e-04	2.09e-05	0.01	1.30e-03	99.91	12.0	0.0	0.0
130	49.698	0.020	0.131	6.63e-04	7.95e-05	4.44e-03	5.32e-04	3.20	0.4	0.0	0.0
131	50.832	0.020	0.131	0.01	1.23e-03	0.12	1.40e-02	28.20	3.4	0.0	0.0
132	52.821	0.019	0.131	1.07e-06	0.0	3.61e-06	0.0	37.18	4.5	0.0	0.0
133	53.441	0.019	0.131	2.05e-03	2.46e-04	0.03	3.06e-03	1.42	0.2	0.0	0.0
134	53.535	0.019	0.131	8.72e-04	1.05e-04	0.0	0.0	16.14	1.9	0.0	0.0
135	54.065	0.018	0.131	0.0	0.0	3.54e-03	4.24e-04	16.74	2.0	0.0	0.0
136	54.247	0.018	0.131	0.0	0.0	0.07	7.99e-03	3.73e-06	0.0	0.0	0.0
137	54.537	0.018	0.131	4.33e-05	5.19e-06	4.50e-05	5.39e-06	0.01	1.73e-03	0.0	0.0
138	54.633	0.018	0.131	0.08	9.49e-03	1.70e-06	0.0	2.03e-05	2.43e-06	0.0	0.0
139	54.975	0.018	0.131	5.20e-03	6.23e-04	0.03	3.12e-03	28.58	3.4	0.0	0.0
140	55.358	0.018	0.131	3.83e-05	4.59e-06	1.32e-04	1.58e-05	2.91e-03	3.49e-04	0.0	0.0
141	56.771	0.018	0.131	7.44	0.9	1.44e-05	1.73e-06	5.61	0.7	0.0	0.0
142	56.847	0.018	0.131	0.07	8.65e-03	1.92e-03	2.30e-04	0.04	5.04e-03	0.0	0.0
143	58.241	0.017	0.131	0.0	0.0	7.22	0.9	5.16	0.6	0.0	0.0
144	58.986	0.017	0.131	0.02	1.95e-03	1.90e-04	2.27e-05	4.31	0.5	0.0	0.0
145	59.089	0.017	0.131	0.09	1.13e-02	2.21e-03	2.65e-04	30.35	3.6	0.0	0.0
146	59.446	0.017	0.131	6.32e-04	7.58e-05	7.70e-04	9.23e-05	0.03	3.51e-03	0.0	0.0
147	60.688	0.016	0.131	1.37e-04	1.64e-05	1.34e-05	1.60e-06	11.20	1.3	0.0	0.0
148	60.699	0.016	0.131	1.61e-06	0.0	3.44e-03	4.13e-04	13.73	1.6	0.0	0.0
149	61.146	0.016	0.131	6.08e-03	7.29e-04	9.67e-05	1.16e-05	5.70e-03	6.84e-04	0.0	0.0
150	61.315	0.016	0.131	0.28	3.37e-02	0.0	0.0	9.10e-04	1.09e-04	0.0	0.0
151	61.696	0.016	0.131	4.44e-04	5.32e-05	2.16e-06	0.0	17.34	2.1	0.0	0.0
152	61.734	0.016	0.131	1.89e-06	0.0	2.36e-04	2.83e-05	10.12	1.2	0.0	0.0
153	63.119	0.016	0.131	9.15e-06	1.10e-06	0.23	2.81e-02	0.02	2.94e-03	0.0	0.0
154	63.806	0.016	0.131	1.24	0.1	0.02	2.85e-03	3.48	0.4	0.0	0.0
155	65.100	0.015	0.131	0.47	5.63e-02	0.05	5.72e-03	1.59	0.2	0.0	0.0
156	67.164	0.015	0.131	6.25e-04	7.49e-05	6.36e-04	7.63e-05	0.05	6.30e-03	0.0	0.0
157	69.045	0.014	0.131	1.33e-04	1.60e-05	5.93e-04	7.11e-05	0.16	1.93e-02	0.0	0.0
158	70.227	0.014	0.131	1.45e-04	1.73e-05	0.02	1.94e-03	1.46e-03	1.74e-04	0.0	0.0
159	70.283	0.014	0.131	4.84e-05	5.80e-06	9.90e-04	1.19e-04	0.03	3.06e-03	0.0	0.0
160	70.439	0.014	0.131	2.43e-03	2.91e-04	2.15e-03	2.58e-04	0.30	3.59e-02	0.0	0.0
161	70.924	0.014	0.131	7.20e-04	8.64e-05	0.02	2.88e-03	0.07	8.08e-03	0.0	0.0
162	73.302	0.014	0.131	1.53e-03	1.84e-04	4.76e-04	5.71e-05	0.31	3.69e-02	0.0	0.0
163	75.105	0.013	0.131	0.18	2.17e-02	1.06e-03	1.27e-04	0.04	4.30e-03	0.0	0.0
164	75.535	0.013	0.131	2.22e-03	2.66e-04	0.09	1.08e-02	1.13e-03	1.35e-04	0.0	0.0
165	76.168	0.013	0.131	0.05	5.61e-03	0.0	0.0	0.21	2.48e-02	0.0	0.0
166	77.266	0.013	0.131	0.01	1.38e-03	4.02e-05	4.82e-06	0.61	7.33e-02	0.0	0.0
167	78.566	0.013	0.131	1.90e-03	2.28e-04	0.16	1.86e-02	0.02	2.20e-03	0.0	0.0
168	78.886	0.013	0.131	4.24e-03	5.08e-04	0.04	5.32e-03	0.06	7.62e-03	0.0	0.0
169	79.895	0.013	0.131	2.85e-04	3.42e-05	7.60e-04	9.11e-05	15.54	1.9	0.0	0.0
170	81.514	0.012	0.131	0.02	2.67e-03	2.03e-03	2.44e-04	0.63	7.58e-02	0.0	0.0
171	82.381	0.012	0.131	0.04	5.32e-03	7.09e-03	8.50e-04	8.60e-03	1.03e-03	0.0	0.0
172	83.160	0.012	0.131	0.01	1.20e-03	0.26	3.07e-02	0.67	8.03e-02	0.0	0.0
173	83.572	0.012	0.131	1.72e-04	2.06e-05	0.03	3.64e-03	4.13	0.5	0.0	0.0
174	85.679	0.012	0.131	6.99e-04	8.38e-05	0.02	2.81e-03	0.87	0.1	0.0	0.0
175	86.550	0.012	0.131	2.64e-03	3.16e-04	6.15e-04	7.37e-05	0.01	1.42e-03	0.0	0.0
176	87.925	0.011	0.131	4.50e-04	5.39e-05	2.43e-04	2.92e-05	0.77	9.21e-02	0.0	0.0
177	89.837	0.011	0.131	1.28e-04	1.54e-05	0.29	3.49e-02	0.80	9.62e-02	0.0	0.0
178	91.817	0.011	0.131	4.00e-06	0.0	0.02	2.54e-03	0.43	5.12e-02	0.0	0.0
179	92.504	0.011	0.131	0.05	6.37e-03	2.27e-05	2.72e-06	4.98e-04	5.97e-05	0.0	0.0
180	94.908	0.011	0.131	2.53e-04	3.03e-05	0.06	7.59e-03	0.32	3.81e-02	0.0	0.0
181	95.969	0.010	0.131	2.44e-03	2.92e-04	0.17	2.02e-02	0.22	2.60e-02	0.0	0.0
182	96.495	0.010	0.131	3.83e-03	4.59e-04	0.08	1.01e-02	0.27	3.26e-02	0.0	0.0
183	98.897	0.010	0.131	6.78e-03	8.13e-04	0.06	6.72e-03	0.86	0.1	0.0	0.0
184	101.746	0.010	0.131	7.19e-03	8.62e-04	4.06e-04	4.87e-05	0.02	2.54e-03	0.0	0.0
185	102.382	0.010	0.131	1.17e-03	1.40e-04	2.74e-03	3.29e-04	3.52	0.4	0.0	0.0
186	106.161	0.009	0.131	2.05e-05	2.46e-06	7.43e-04	8.91e-05	6.84	0.8	0.0	0.0
187	108.325	0.009	0.131	1.08e-03	1.29e-04	0.02	2.40e-03	0.20	2.45e-02	0.0	0.0
188	109.147	0.009	0.131	5.95e-03	7.13e-04	0.01	1.62e-03	0.02	2.86e-03	0.0	0.0
189	110.192	0.009	0.131	3.00e-04	3.59e-05	0.04	4.65e-03	0.02	2.12e-03	0.0	0.0
190	116.664	0.009	0.131	1.43e-05	1.72e-06	0.01	1.51e-03	0.03	4.09e-03	0.0	0.0
191	131.822	0.008	0.131	0.05	6.46e-03	0.14	1.67e-02	0.09	1.07e-02	0.0	0.0
192	133.378	0.007	0.131	0.02	1.90e-03	5.72e-03	6.86e-04	2.43	0.3	0.0	0.0
193	134.034	0.007	0.131	0.08	9.20e-03	6.24e-03	7.48e-04	0.54	6.43e-02	0.0	0.0
194	138.009	0.007	0.131	0.87	0.1	0.04	4.48e-03	2.63e-04	3.15e-05	0.0	0.0
195	142.511	0.007	0.131	1.64e-03	1.97e-04	0.11	1.32e-02	0.32	3.80e-02	0.0	0.0
196	145.363	0.007	0.131	0.07	8.19e-03	8.20e-04	9.83e-05	13.09	1.6	0.0	0.0
197	147.820	0.007	0.131	0.29	3.46e-02	5.21e-04	6.25e-05	2.85	0.3	0.0	0.0
198	148.815	0.007	0.131	8.07e-04	9.67e-05	0.21	2.49e-02	3.65	0.4	0.0	0.0
199	155.182	0.006	0.131	7.42e-03	8.89e-04	7.08e-03	8.49e-04	6.72	0.8	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
200	163.922	0.006	0.131	0.26	3.10e-02	1.96e-04	2.35e-05	1.86	0.2	0.0	0.0
201	169.436	0.006	0.131	0.04	5.39e-03	0.14	1.64e-02	0.03	4.18e-03	0.0	0.0
202	171.814	0.006	0.131	6.50e-05	7.79e-06	1.80e-03	2.16e-04	10.66	1.3	0.0	0.0
203	176.815	0.006	0.131	0.12	1.39e-02	0.04	4.71e-03	0.17	2.05e-02	0.0	0.0
204	186.020	0.005	0.131	0.01	1.69e-03	0.09	1.12e-02	0.08	1.00e-02	0.0	0.0
205	190.897	0.005	0.131	0.02	2.55e-03	0.01	1.49e-03	1.86	0.2	0.0	0.0
206	196.704	0.005	0.131	0.02	2.26e-03	6.37e-03	7.64e-04	1.05	0.1	0.0	0.0
207	215.931	0.005	0.131	2.54e-03	3.05e-04	0.09	1.03e-02	0.02	2.32e-03	0.0	0.0
208	218.856	0.005	0.131	0.02	1.91e-03	1.39e-03	1.67e-04	1.60	0.2	0.0	0.0
209	222.904	0.004	0.131	4.66e-03	5.59e-04	1.08e-03	1.30e-04	2.66	0.3	0.0	0.0
210	258.051	0.004	0.131	1.54e-03	1.85e-04	0.08	9.55e-03	5.33e-03	6.39e-04	0.0	0.0
211	265.171	0.004	0.131	8.27e-04	9.92e-05	1.18e-04	1.41e-05	2.64	0.3	0.0	0.0
212	268.414	0.004	0.131	0.16	1.95e-02	0.02	1.92e-03	0.03	3.87e-03	0.0	0.0
213	287.969	0.003	0.131	6.84e-04	8.20e-05	0.07	8.44e-03	0.01	1.61e-03	0.0	0.0
214	297.834	0.003	0.131	0.05	6.39e-03	4.02e-03	4.82e-04	0.03	3.36e-03	0.0	0.0
215	336.937	0.003	0.131	3.17e-03	3.80e-04	6.60e-05	7.91e-06	0.79	9.42e-02	0.0	0.0
216	358.220	0.003	0.131	8.48e-03	1.02e-03	3.68e-04	4.42e-05	0.07	8.62e-03	0.0	0.0
217	365.264	0.003	0.131	8.44e-05	1.01e-05	2.79e-03	3.34e-04	8.20e-03	9.83e-04	0.0	0.0
218	414.199	0.002	0.131	2.52e-04	3.03e-05	1.27e-04	1.52e-05	0.86	0.1	0.0	0.0
219	532.783	0.002	0.131	7.71e-06	0.0	1.37e-03	1.64e-04	0.07	8.86e-03	0.0	0.0
220	556.697	0.002	0.131	4.42e-03	5.29e-04	1.09e-04	1.31e-05	0.46	5.49e-02	0.0	0.0
221	617.044	0.002	0.131	4.15e-04	4.98e-05	7.49e-05	8.98e-06	0.46	5.53e-02	0.0	0.0
222	806.750	0.001	0.131	1.47e-04	1.77e-05	6.21e-04	7.44e-05	3.27e-05	3.92e-06	0.0	0.0
223	934.000	0.001	0.131	5.91e-04	7.08e-05	1.10e-05	1.32e-06	0.04	4.85e-03	0.0	0.0
224	954.690	0.001	0.131	2.43e-05	2.91e-06	9.66e-06	1.16e-06	0.31	3.73e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
10	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.425 sec.
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	0.40	0.0	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	0.54	0.0	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	0.54	0.0	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	0.30	0.0	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	0.54	0.0	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	0.38	0.0	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	0.08	0.0	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.843	1.187	0.102	9.92	1.2	2.64e-04	3.17e-05	0.0	0.0	0.0	0.0
2	0.846	1.182	0.102	0.03	3.69e-03	0.0	0.0	5.14e-06	0.0	0.0	0.0
3	1.006	0.994	0.110	1.86e-03	2.23e-04	12.09	1.4	1.13e-05	1.35e-06	0.0	0.0
4	1.011	0.989	0.110	1.08e-04	1.30e-05	0.03	3.25e-03	1.28e-05	1.54e-06	0.0	0.0
5	1.248	0.801	0.125	2.44e-03	2.92e-04	12.29	1.5	1.54e-06	0.0	0.0	0.0
6	1.249	0.800	0.125	7.52e-05	9.02e-06	0.04	4.23e-03	7.08e-06	0.0	0.0	0.0
7	1.325	0.755	0.133	10.93	1.3	4.89e-03	5.86e-04	0.0	0.0	0.0	0.0
8	1.327	0.754	0.134	0.04	4.29e-03	2.98e-06	0.0	5.34e-06	0.0	0.0	0.0
9	1.443	0.693	0.161	5.76e-06	0.0	4.03	0.5	0.0	0.0	0.0	0.0
10	1.510	0.662	0.179	6.74	0.8	2.40e-06	0.0	1.32e-05	1.58e-06	0.0	0.0
11	1.517	0.659	0.182	0.01	1.60e-03	7.62e-05	9.13e-06	1.24e-05	1.49e-06	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
12	2.119	0.472	0.300	0.36	4.34e-02	9.19	1.1	6.64e-05	7.97e-06	0.0	0.0
13	2.354	0.425	0.294	175.86	21.1	356.13	42.7	0.04	4.54e-03	0.0	0.0
14	2.960	0.338	0.356	276.91	33.2	174.79	21.0	0.02	1.81e-03	0.0	0.0
15	3.405	0.294	0.409	79.22	9.5	17.22	2.1	5.22e-04	6.25e-05	0.0	0.0
16	3.539	0.283	0.397	2.77	0.3	0.25	3.01e-02	6.07e-03	7.28e-04	0.0	0.0
17	3.963	0.252	0.408	6.55e-03	7.85e-04	22.82	2.7	5.70e-04	6.84e-05	0.0	0.0
18	3.989	0.251	0.405	5.39e-03	6.46e-04	0.11	1.27e-02	0.02	1.81e-03	0.0	0.0
19	4.200	0.238	0.381	0.07	8.02e-03	1.45	0.2	3.04e-05	3.64e-06	0.0	0.0
20	4.920	0.203	0.288	0.26	3.11e-02	36.80	4.4	0.17	2.07e-02	0.0	0.0
21	5.141	0.195	0.280	19.21	2.3	7.72e-05	9.26e-06	1.91e-05	2.29e-06	0.0	0.0
22	5.575	0.179	0.269	12.19	1.5	1.92	0.2	0.25	2.95e-02	0.0	0.0
23	5.830	0.172	0.264	7.92	0.9	2.43	0.3	0.05	5.87e-03	0.0	0.0
24	5.895	0.170	0.262	4.78	0.6	10.19	1.2	0.02	1.84e-03	0.0	0.0
25	6.497	0.154	0.251	2.83	0.3	0.48	5.76e-02	0.01	1.27e-03	0.0	0.0
26	6.797	0.147	0.245	8.71	1.0	0.05	5.58e-03	0.01	1.22e-03	0.0	0.0
27	6.949	0.144	0.242	24.70	3.0	2.58	0.3	0.05	5.42e-03	0.0	0.0
28	7.155	0.140	0.239	2.62	0.3	7.42	0.9	1.53e-03	1.83e-04	0.0	0.0
29	7.399	0.135	0.234	34.24	4.1	0.31	3.73e-02	0.09	1.06e-02	0.0	0.0
30	7.787	0.128	0.227	0.45	5.35e-02	17.57	2.1	1.60e-03	1.92e-04	0.0	0.0
31	8.013	0.125	0.223	7.04	0.8	12.90	1.5	4.31e-04	5.17e-05	0.0	0.0
32	8.385	0.119	0.220	16.28	2.0	0.44	5.30e-02	0.06	6.75e-03	0.0	0.0
33	8.636	0.116	0.226	2.22	0.3	7.52	0.9	0.07	8.87e-03	0.0	0.0
34	9.021	0.111	0.235	0.89	0.1	0.85	0.1	0.19	2.28e-02	0.0	0.0
35	9.062	0.110	0.236	1.68	0.2	4.39	0.5	0.60	7.23e-02	0.0	0.0
36	9.392	0.106	0.243	0.21	2.58e-02	17.31	2.1	1.19	0.1	0.0	0.0
37	9.781	0.102	0.250	0.26	3.11e-02	0.01	1.65e-03	0.03	3.72e-03	0.0	0.0
38	10.391	0.096	0.246	10.30	1.2	0.01	1.57e-03	2.35	0.3	0.0	0.0
39	10.495	0.095	0.244	0.07	8.46e-03	0.29	3.42e-02	0.02	2.48e-03	0.0	0.0
40	10.675	0.094	0.240	5.45	0.7	0.06	7.27e-03	3.46	0.4	0.0	0.0
41	10.743	0.093	0.238	1.41	0.2	0.95	0.1	0.03	4.08e-03	0.0	0.0
42	11.433	0.087	0.226	2.26e-03	2.71e-04	5.66	0.7	4.89e-04	5.86e-05	0.0	0.0
43	12.081	0.083	0.215	7.00e-03	8.39e-04	4.49	0.5	2.38e-03	2.86e-04	0.0	0.0
44	12.465	0.080	0.209	0.25	3.00e-02	0.27	3.21e-02	34.76	4.2	0.0	0.0
45	12.868	0.078	0.203	14.26	1.7	13.70	1.6	0.83	9.91e-02	0.0	0.0
46	13.196	0.076	0.199	6.46	0.8	0.01	1.21e-03	0.01	1.45e-03	0.0	0.0
47	13.476	0.074	0.195	2.69	0.3	0.94	0.1	0.10	1.19e-02	0.0	0.0
48	13.824	0.072	0.191	0.68	8.14e-02	0.51	6.14e-02	0.41	4.90e-02	0.0	0.0
49	14.022	0.071	0.188	1.52	0.2	2.38	0.3	0.13	1.51e-02	0.0	0.0
50	14.527	0.069	0.182	7.69	0.9	0.28	3.34e-02	0.06	7.56e-03	0.0	0.0
51	14.747	0.068	0.180	0.35	4.22e-02	3.02	0.4	0.14	1.68e-02	0.0	0.0
52	15.061	0.066	0.177	0.41	4.87e-02	0.43	5.17e-02	3.56e-04	4.27e-05	0.0	0.0
53	15.201	0.066	0.175	0.14	1.72e-02	1.34e-03	1.61e-04	0.03	3.94e-03	0.0	0.0
54	15.286	0.065	0.174	3.21	0.4	0.51	6.16e-02	9.83e-05	1.18e-05	0.0	0.0
55	15.422	0.065	0.173	0.08	9.83e-03	1.33	0.2	0.36	4.32e-02	0.0	0.0
56	15.622	0.064	0.171	1.42	0.2	1.12	0.1	0.72	8.63e-02	0.0	0.0
57	15.710	0.064	0.170	0.22	2.69e-02	5.49	0.7	2.88	0.3	0.0	0.0
58	15.735	0.064	0.170	1.43	0.2	5.04	0.6	0.57	6.85e-02	0.0	0.0
59	15.903	0.063	0.169	1.15	0.1	4.54	0.5	2.46	0.3	0.0	0.0
60	16.151	0.062	0.166	3.21	0.4	3.63	0.4	0.01	1.30e-03	0.0	0.0
61	16.330	0.061	0.165	2.48	0.3	3.27	0.4	0.50	5.95e-02	0.0	0.0
62	16.375	0.061	0.164	0.83	9.90e-02	0.42	5.05e-02	9.36	1.1	0.0	0.0
63	16.487	0.061	0.163	5.55e-04	6.66e-05	1.49	0.2	0.09	1.13e-02	0.0	0.0
64	16.623	0.060	0.162	3.65e-04	4.38e-05	0.04	4.60e-03	0.53	6.36e-02	0.0	0.0
65	16.804	0.060	0.161	0.54	6.45e-02	0.16	1.88e-02	0.07	8.34e-03	0.0	0.0
66	17.213	0.058	0.159	2.89	0.3	0.16	1.87e-02	1.27	0.2	0.0	0.0
67	17.332	0.058	0.159	0.06	6.73e-03	2.73	0.3	13.23	1.6	0.0	0.0
68	18.114	0.055	0.155	0.68	8.13e-02	3.00	0.4	0.02	2.66e-03	0.0	0.0
69	18.338	0.055	0.154	0.42	5.09e-02	0.01	1.31e-03	0.81	9.68e-02	0.0	0.0
70	18.464	0.054	0.154	1.63	0.2	0.20	2.37e-02	0.75	9.04e-02	0.0	0.0
71	18.594	0.054	0.153	0.15	1.84e-02	0.01	1.49e-03	0.12	1.45e-02	0.0	0.0
72	19.022	0.053	0.152	6.99	0.8	0.02	2.47e-03	8.04	1.0	0.0	0.0
73	19.332	0.052	0.151	0.14	1.67e-02	4.99	0.6	8.37	1.0	0.0	0.0
74	19.439	0.051	0.150	1.81	0.2	0.22	2.59e-02	0.10	1.18e-02	0.0	0.0
75	19.682	0.051	0.149	0.01	1.78e-03	0.12	1.44e-02	0.56	6.68e-02	0.0	0.0
76	20.033	0.050	0.148	0.23	2.70e-02	0.56	6.72e-02	8.02e-06	0.0	0.0	0.0
77	20.702	0.048	0.146	0.46	5.57e-02	0.85	0.1	1.72	0.2	0.0	0.0
78	21.042	0.048	0.145	0.32	3.87e-02	0.40	4.75e-02	0.61	7.33e-02	0.0	0.0
79	21.719	0.046	0.143	1.53	0.2	0.13	1.59e-02	13.74	1.6	0.0	0.0
80	22.519	0.044	0.141	0.24	2.92e-02	0.24	2.94e-02	0.12	1.49e-02	0.0	0.0
81	23.076	0.043	0.139	0.40	4.79e-02	2.41e-03	2.89e-04	0.28	3.38e-02	0.0	0.0
82	23.199	0.043	0.139	9.47e-03	1.13e-03	0.32	3.83e-02	8.48	1.0	0.0	0.0
83	23.475	0.043	0.138	0.05	5.81e-03	2.87	0.3	15.84	1.9	0.0	0.0
84	24.311	0.041	0.136	0.08	9.95e-03	0.18	2.15e-02	3.15	0.4	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
85	25.046	0.040	0.135	0.89	0.1	0.07	7.83e-03	0.03	4.09e-03	0.0	0.0
86	25.358	0.039	0.135	0.36	4.35e-02	2.89e-03	3.46e-04	0.25	2.98e-02	0.0	0.0
87	25.458	0.039	0.135	0.79	9.46e-02	9.15e-04	1.10e-04	2.51e-03	3.01e-04	0.0	0.0
88	25.771	0.039	0.134	0.20	2.43e-02	6.10e-04	7.31e-05	7.53e-03	9.02e-04	0.0	0.0
89	25.823	0.039	0.134	5.68e-05	6.81e-06	0.18	2.16e-02	0.05	5.61e-03	0.0	0.0
90	26.014	0.038	0.134	0.09	1.04e-02	0.02	1.86e-03	0.69	8.33e-02	0.0	0.0
91	26.355	0.038	0.134	3.25	0.4	0.02	2.42e-03	0.12	1.42e-02	0.0	0.0
92	26.621	0.038	0.134	0.11	1.37e-02	0.01	1.39e-03	3.95	0.5	0.0	0.0
93	26.992	0.037	0.134	0.09	1.10e-02	0.06	6.68e-03	1.18	0.1	0.0	0.0
94	28.120	0.036	0.134	9.44e-04	1.13e-04	8.62e-06	1.03e-06	11.73	1.4	0.0	0.0
95	28.259	0.035	0.134	9.15e-03	1.10e-03	2.21e-03	2.65e-04	50.44	6.0	0.0	0.0
96	28.539	0.035	0.134	1.94	0.2	5.23e-03	6.27e-04	0.12	1.42e-02	0.0	0.0
97	29.655	0.034	0.133	0.21	2.57e-02	0.01	1.35e-03	2.20e-04	2.63e-05	0.0	0.0
98	29.867	0.033	0.133	0.86	0.1	0.03	3.73e-03	5.11e-03	6.13e-04	0.0	0.0
99	30.453	0.033	0.133	4.14	0.5	0.51	6.07e-02	0.02	1.87e-03	0.0	0.0
100	31.780	0.031	0.133	0.03	3.80e-03	6.91e-03	8.29e-04	3.97	0.5	0.0	0.0
101	31.861	0.031	0.133	1.60	0.2	0.08	9.19e-03	0.65	7.83e-02	0.0	0.0
102	32.851	0.030	0.133	1.05e-03	1.26e-04	0.95	0.1	0.02	1.94e-03	0.0	0.0
103	34.557	0.029	0.132	5.86e-03	7.02e-04	0.05	5.82e-03	11.01	1.3	0.0	0.0
104	35.201	0.028	0.132	4.72	0.6	0.05	5.54e-03	1.53	0.2	0.0	0.0
105	35.412	0.028	0.132	2.17e-03	2.61e-04	0.52	6.29e-02	0.03	3.48e-03	0.0	0.0
106	36.264	0.028	0.132	3.94e-04	4.72e-05	5.24e-04	6.28e-05	6.56	0.8	0.0	0.0
107	36.494	0.027	0.132	0.01	1.50e-03	0.11	1.34e-02	0.07	7.83e-03	0.0	0.0
108	36.588	0.027	0.132	0.18	2.18e-02	1.77e-03	2.13e-04	0.05	5.87e-03	0.0	0.0
109	36.970	0.027	0.132	9.48e-04	1.14e-04	2.60e-03	3.12e-04	25.60	3.1	0.0	0.0
110	37.418	0.027	0.132	0.07	8.41e-03	1.07e-05	1.29e-06	0.02	2.70e-03	0.0	0.0
111	37.669	0.027	0.132	0.02	1.81e-03	2.49e-04	2.98e-05	1.85e-03	2.22e-04	0.0	0.0
112	37.940	0.026	0.132	7.52e-05	9.01e-06	0.01	1.44e-03	0.01	1.28e-03	0.0	0.0
113	40.234	0.025	0.132	1.05e-03	1.26e-04	0.05	5.94e-03	0.01	1.48e-03	0.0	0.0
114	41.229	0.024	0.131	3.34e-04	4.00e-05	1.68e-03	2.01e-04	58.12	7.0	0.0	0.0
115	41.401	0.024	0.131	8.82e-03	1.06e-03	5.95e-05	7.14e-06	0.01	1.35e-03	0.0	0.0
116	41.729	0.024	0.131	0.03	3.52e-03	0.01	1.25e-03	1.25	0.1	0.0	0.0
117	41.771	0.024	0.131	0.01	1.76e-03	0.04	4.20e-03	16.83	2.0	0.0	0.0
118	42.001	0.024	0.131	5.49e-03	6.58e-04	2.24e-03	2.69e-04	6.76e-04	8.11e-05	0.0	0.0
119	42.585	0.023	0.131	2.53e-05	3.03e-06	3.01e-03	3.61e-04	0.02	2.68e-03	0.0	0.0
120	43.580	0.023	0.131	0.27	3.26e-02	2.12	0.3	4.19e-04	5.02e-05	0.0	0.0
121	45.595	0.022	0.131	1.29e-03	1.55e-04	4.79e-04	5.75e-05	0.03	3.76e-03	0.0	0.0
122	46.379	0.022	0.131	2.17e-03	2.60e-04	0.02	2.06e-03	44.40	5.3	0.0	0.0
123	46.542	0.021	0.131	5.01e-03	6.01e-04	0.02	2.06e-03	5.89	0.7	0.0	0.0
124	46.723	0.021	0.131	0.17	2.05e-02	1.69	0.2	0.03	3.62e-03	0.0	0.0
125	46.935	0.021	0.131	5.46e-03	6.55e-04	0.05	5.66e-03	9.42	1.1	0.0	0.0
126	47.369	0.021	0.131	5.10e-04	6.11e-05	0.02	2.61e-03	13.83	1.7	0.0	0.0
127	49.252	0.020	0.131	2.18e-03	2.62e-04	1.85e-04	2.22e-05	98.07	11.8	0.0	0.0
128	49.674	0.020	0.131	0.03	3.99e-03	0.01	1.74e-03	1.00	0.1	0.0	0.0
129	49.856	0.020	0.131	7.64	0.9	4.17e-05	5.00e-06	0.29	3.46e-02	0.0	0.0
130	50.335	0.020	0.131	1.26e-03	1.51e-04	0.01	1.71e-03	14.01	1.7	0.0	0.0
131	51.100	0.020	0.131	9.73e-03	1.17e-03	0.11	1.29e-02	17.75	2.1	0.0	0.0
132	52.820	0.019	0.131	1.10e-06	0.0	5.47e-06	0.0	37.18	4.5	0.0	0.0
133	53.186	0.019	0.131	3.69e-06	0.0	5.90	0.7	0.75	9.01e-02	0.0	0.0
134	53.574	0.019	0.131	0.0	0.0	1.24e-06	0.0	2.89e-03	3.46e-04	0.0	0.0
135	54.116	0.018	0.131	0.02	2.92e-03	0.0	0.0	16.44	2.0	0.0	0.0
136	54.183	0.018	0.131	0.0	0.0	0.06	7.54e-03	5.73e-04	6.87e-05	0.0	0.0
137	54.346	0.018	0.131	0.08	9.41e-03	2.35e-05	2.82e-06	2.19e-04	2.63e-05	0.0	0.0
138	54.668	0.018	0.131	2.12e-06	0.0	0.11	1.36e-02	16.24	1.9	0.0	0.0
139	54.975	0.018	0.131	3.79e-03	4.54e-04	0.02	2.67e-03	28.73	3.4	0.0	0.0
140	55.354	0.018	0.131	7.11e-05	8.53e-06	1.26e-04	1.51e-05	3.92e-03	4.70e-04	0.0	0.0
141	55.722	0.018	0.131	0.09	1.07e-02	2.69e-03	3.23e-04	0.03	3.46e-03	0.0	0.0
142	58.235	0.017	0.131	7.38	0.9	1.44e-05	1.73e-06	5.04	0.6	0.0	0.0
143	58.936	0.017	0.131	1.79e-03	2.14e-04	0.0	0.0	0.99	0.1	0.0	0.0
144	58.976	0.017	0.131	0.02	2.91e-03	8.82e-04	1.06e-04	6.73	0.8	0.0	0.0
145	59.068	0.017	0.131	0.08	9.77e-03	3.94e-03	4.72e-04	27.13	3.3	0.0	0.0
146	59.909	0.017	0.131	0.0	0.0	7.34	0.9	5.48	0.7	0.0	0.0
147	60.691	0.016	0.131	1.48e-03	1.77e-04	4.43e-05	5.32e-06	11.99	1.4	0.0	0.0
148	60.707	0.016	0.131	1.70e-05	2.03e-06	0.05	6.54e-03	12.21	1.5	0.0	0.0
149	61.067	0.016	0.131	2.50e-03	3.00e-04	4.47e-04	5.36e-05	3.40e-06	0.0	0.0	0.0
150	61.693	0.016	0.131	1.62e-04	1.94e-05	0.0	0.0	14.73	1.8	0.0	0.0
151	61.731	0.016	0.131	9.50e-06	1.14e-06	3.95e-04	4.73e-05	12.71	1.5	0.0	0.0
152	63.119	0.016	0.131	0.23	2.79e-02	2.26e-06	0.0	0.03	3.42e-03	0.0	0.0
153	63.628	0.016	0.131	1.00	0.1	0.03	3.39e-03	3.85	0.5	0.0	0.0
154	64.892	0.015	0.131	0.72	8.65e-02	0.04	5.38e-03	1.26	0.2	0.0	0.0
155	65.047	0.015	0.131	2.52e-06	0.0	0.19	2.30e-02	0.02	2.74e-03	0.0	0.0
156	65.772	0.015	0.131	4.32e-04	5.18e-05	0.04	4.81e-03	0.07	7.91e-03	0.0	0.0
157	67.019	0.015	0.131	2.46e-04	2.95e-05	3.70e-04	4.44e-05	0.02	2.22e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
158	69.125	0.014	0.131	3.52e-04	4.22e-05	6.63e-05	7.95e-06	0.13	1.53e-02	0.0	0.0
159	70.054	0.014	0.131	8.56e-03	1.03e-03	5.85e-04	7.02e-05	0.10	1.15e-02	0.0	0.0
160	70.163	0.014	0.131	0.04	5.29e-03	0.02	2.62e-03	0.03	3.83e-03	0.0	0.0
161	70.301	0.014	0.131	4.02e-03	4.81e-04	0.08	9.56e-03	0.01	1.33e-03	0.0	0.0
162	72.808	0.014	0.131	2.01e-03	2.41e-04	6.06e-05	7.27e-06	0.22	2.58e-02	0.0	0.0
163	73.390	0.014	0.131	2.48e-04	2.98e-05	0.02	2.89e-03	0.13	1.62e-02	0.0	0.0
164	73.758	0.014	0.131	7.46e-03	8.94e-04	4.73e-03	5.67e-04	0.41	4.93e-02	0.0	0.0
165	75.393	0.013	0.131	0.08	1.01e-02	6.32e-04	7.57e-05	0.07	7.94e-03	0.0	0.0
166	76.369	0.013	0.131	3.58e-03	4.30e-04	4.77e-03	5.72e-04	0.34	4.03e-02	0.0	0.0
167	78.528	0.013	0.131	0.10	1.20e-02	2.12e-03	2.54e-04	0.02	2.08e-03	0.0	0.0
168	78.661	0.013	0.131	0.09	1.12e-02	3.74e-04	4.48e-05	0.37	4.45e-02	0.0	0.0
169	79.710	0.013	0.131	3.56e-03	4.27e-04	6.97e-03	8.36e-04	0.02	2.30e-03	0.0	0.0
170	79.920	0.013	0.131	1.18e-03	1.41e-04	0.0	0.0	15.94	1.9	0.0	0.0
171	81.491	0.012	0.131	7.15e-03	8.57e-04	2.12e-03	2.54e-04	0.02	2.78e-03	0.0	0.0
172	82.935	0.012	0.131	2.79e-04	3.35e-05	0.46	5.51e-02	1.29	0.2	0.0	0.0
173	84.079	0.012	0.131	6.02e-04	7.22e-05	0.02	1.88e-03	3.25	0.4	0.0	0.0
174	84.946	0.012	0.131	8.18e-04	9.80e-05	0.02	2.59e-03	0.13	1.57e-02	0.0	0.0
175	86.921	0.012	0.131	2.39e-03	2.87e-04	4.79e-04	5.74e-05	0.04	4.28e-03	0.0	0.0
176	88.758	0.011	0.131	1.86e-04	2.22e-05	0.02	2.26e-03	2.44	0.3	0.0	0.0
177	89.551	0.011	0.131	2.30e-05	2.75e-06	0.29	3.46e-02	0.32	3.88e-02	0.0	0.0
178	92.023	0.011	0.131	0.02	2.88e-03	6.13e-03	7.35e-04	0.31	3.77e-02	0.0	0.0
179	92.461	0.011	0.131	0.03	3.48e-03	3.83e-03	4.59e-04	0.24	2.91e-02	0.0	0.0
180	94.512	0.011	0.131	3.32e-06	0.0	0.15	1.75e-02	2.20e-03	2.63e-04	0.0	0.0
181	96.072	0.010	0.131	2.15e-04	2.58e-05	0.10	1.24e-02	0.39	4.66e-02	0.0	0.0
182	98.135	0.010	0.131	9.77e-03	1.17e-03	0.03	4.03e-03	0.28	3.32e-02	0.0	0.0
183	99.232	0.010	0.131	1.04e-04	1.25e-05	0.01	1.28e-03	1.34	0.2	0.0	0.0
184	100.444	0.010	0.131	0.01	1.47e-03	3.34e-03	4.00e-04	0.27	3.21e-02	0.0	0.0
185	103.277	0.010	0.131	7.88e-04	9.44e-05	9.57e-03	1.15e-03	1.83	0.2	0.0	0.0
186	104.259	0.010	0.131	1.72e-06	0.0	0.07	7.96e-03	0.33	3.93e-02	0.0	0.0
187	106.775	0.009	0.131	4.47e-05	5.36e-06	1.12e-03	1.34e-04	6.70	0.8	0.0	0.0
188	112.290	0.009	0.131	7.49e-06	0.0	8.07e-03	9.68e-04	0.02	2.45e-03	0.0	0.0
189	113.836	0.009	0.131	4.93e-05	5.92e-06	4.22e-04	5.06e-05	0.75	8.95e-02	0.0	0.0
190	114.534	0.009	0.131	8.53e-03	1.02e-03	1.07e-05	1.28e-06	6.97e-04	8.35e-05	0.0	0.0
191	122.025	0.008	0.131	0.0	0.0	0.02	1.99e-03	3.94e-03	4.72e-04	0.0	0.0
192	131.808	0.008	0.131	0.41	4.90e-02	0.06	7.17e-03	0.02	2.34e-03	0.0	0.0
193	134.593	0.007	0.131	3.99e-03	4.78e-04	6.31e-06	0.0	3.28	0.4	0.0	0.0
194	138.375	0.007	0.131	0.44	5.25e-02	0.05	5.45e-03	0.01	1.54e-03	0.0	0.0
195	140.980	0.007	0.131	0.15	1.79e-02	0.07	8.95e-03	1.01e-03	1.21e-04	0.0	0.0
196	145.642	0.007	0.131	3.90e-03	4.67e-04	1.83e-03	2.19e-04	15.84	1.9	0.0	0.0
197	148.896	0.007	0.131	0.28	3.36e-02	0.05	6.58e-03	0.84	0.1	0.0	0.0
198	150.812	0.007	0.131	9.33e-03	1.12e-03	0.24	2.83e-02	3.27	0.4	0.0	0.0
199	155.425	0.006	0.131	1.70e-03	2.04e-04	0.03	3.77e-03	7.62	0.9	0.0	0.0
200	161.537	0.006	0.131	0.19	2.27e-02	0.04	4.77e-03	0.02	2.10e-03	0.0	0.0
201	168.825	0.006	0.131	0.20	2.37e-02	0.05	5.61e-03	1.74	0.2	0.0	0.0
202	173.662	0.006	0.131	6.54e-04	7.85e-05	0.02	2.37e-03	8.98	1.1	0.0	0.0
203	178.190	0.006	0.131	0.03	3.37e-03	0.07	8.95e-03	1.36	0.2	0.0	0.0
204	186.657	0.005	0.131	2.25e-03	2.70e-04	0.09	1.09e-02	0.07	8.11e-03	0.0	0.0
205	189.333	0.005	0.131	0.09	1.08e-02	5.00e-04	5.99e-05	0.40	4.74e-02	0.0	0.0
206	193.985	0.005	0.131	0.03	3.10e-03	7.48e-05	8.97e-06	1.58	0.2	0.0	0.0
207	212.967	0.005	0.131	0.01	1.79e-03	0.07	8.15e-03	0.10	1.17e-02	0.0	0.0
208	218.658	0.005	0.131	5.62e-03	6.73e-04	0.03	3.95e-03	1.23	0.1	0.0	0.0
209	221.859	0.005	0.131	5.18e-03	6.21e-04	3.59e-03	4.30e-04	3.21	0.4	0.0	0.0
210	258.317	0.004	0.131	9.49e-04	1.14e-04	0.03	3.66e-03	3.03e-04	3.63e-05	0.0	0.0
211	265.516	0.004	0.131	5.36e-03	6.43e-04	1.77e-03	2.13e-04	2.57	0.3	0.0	0.0
212	274.266	0.004	0.131	0.13	1.54e-02	0.03	3.90e-03	0.09	1.06e-02	0.0	0.0
213	296.015	0.003	0.131	0.01	1.46e-03	0.10	1.15e-02	1.95e-04	2.34e-05	0.0	0.0
214	302.843	0.003	0.131	0.06	7.77e-03	1.95e-03	2.34e-04	3.13e-03	3.76e-04	0.0	0.0
215	339.502	0.003	0.131	1.30e-04	1.56e-05	0.0	0.0	0.85	0.1	0.0	0.0
216	348.154	0.003	0.131	6.23e-03	7.47e-04	1.54e-03	1.85e-04	6.91e-03	8.29e-04	0.0	0.0
217	367.049	0.003	0.131	3.61e-03	4.32e-04	2.83e-03	3.39e-04	0.04	4.23e-03	0.0	0.0
218	416.128	0.002	0.131	6.77e-05	8.11e-06	5.49e-05	6.58e-06	0.85	0.1	0.0	0.0
219	532.094	0.002	0.131	8.77e-05	1.05e-05	1.18e-03	1.42e-04	0.13	1.54e-02	0.0	0.0
220	559.446	0.002	0.131	4.54e-03	5.44e-04	2.81e-04	3.37e-05	0.31	3.75e-02	0.0	0.0
221	608.365	0.002	0.131	2.23e-04	2.67e-05	7.49e-05	8.98e-06	0.54	6.47e-02	0.0	0.0
222	810.356	0.001	0.131	1.25e-04	1.49e-05	6.16e-04	7.39e-05	1.25e-03	1.50e-04	0.0	0.0
223	919.698	0.001	0.131	5.83e-04	6.99e-05	1.25e-05	1.50e-06	0.09	1.06e-02	0.0	0.0
224	960.823	0.001	0.131	7.57e-05	9.08e-06	1.10e-05	1.32e-06	0.27	3.19e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note

CDC	Tipo	Sigla Id	Note
11	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.423 sec.
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	-0.40	0.0	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	-0.54	0.0	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	-0.54	0.0	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	-0.30	0.0	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	-0.54	0.0	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	-0.38	0.0	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	-0.08	0.0	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.843	1.187	0.102	9.92	1.2	7.57e-04	9.08e-05	0.0	0.0	0.0	0.0
2	0.846	1.182	0.102	0.03	3.69e-03	0.0	0.0	5.13e-06	0.0	0.0	0.0
3	1.049	0.953	0.111	2.03e-03	2.44e-04	11.07	1.3	1.21e-05	1.45e-06	0.0	0.0
4	1.054	0.949	0.110	1.22e-04	1.46e-05	0.03	3.07e-03	1.40e-05	1.67e-06	0.0	0.0
5	1.325	0.755	0.133	10.93	1.3	7.76e-03	9.31e-04	0.0	0.0	0.0	0.0
6	1.327	0.754	0.134	0.04	4.27e-03	6.86e-06	0.0	5.36e-06	0.0	0.0	0.0
7	1.419	0.705	0.155	4.42e-03	5.29e-04	10.12	1.2	1.46e-06	0.0	0.0	0.0
8	1.421	0.704	0.156	1.14e-04	1.37e-05	0.03	3.32e-03	9.32e-06	1.12e-06	0.0	0.0
9	1.510	0.662	0.179	6.74	0.8	1.34e-05	1.61e-06	1.30e-05	1.56e-06	0.0	0.0
10	1.517	0.659	0.182	0.01	1.60e-03	1.83e-04	2.20e-05	1.23e-05	1.48e-06	0.0	0.0
11	1.592	0.628	0.210	1.45e-06	0.0	3.29	0.4	0.0	0.0	0.0	0.0
12	2.334	0.428	0.293	29.14	3.5	92.66	11.1	6.17e-03	7.40e-04	0.0	0.0
13	2.363	0.423	0.294	139.46	16.7	273.97	32.8	0.03	3.62e-03	0.0	0.0
14	2.940	0.340	0.350	307.13	36.8	157.95	18.9	0.02	2.14e-03	0.0	0.0
15	3.517	0.284	0.399	34.20	4.1	19.01	2.3	2.60e-06	0.0	0.0	0.0
16	3.648	0.274	0.402	23.60	2.8	1.62	0.2	2.35e-03	2.82e-04	0.0	0.0
17	3.977	0.251	0.407	0.07	8.34e-03	37.95	4.6	0.12	1.45e-02	0.0	0.0
18	4.035	0.248	0.401	0.67	8.03e-02	19.63	2.4	6.54e-04	7.85e-05	0.0	0.0
19	4.229	0.236	0.375	0.29	3.54e-02	2.84e-04	3.41e-05	2.12e-04	2.54e-05	0.0	0.0
20	4.629	0.216	0.307	2.12e-03	2.54e-04	15.37	1.8	1.53e-05	1.83e-06	0.0	0.0
21	5.141	0.195	0.280	19.19	2.3	4.56e-05	5.46e-06	1.59e-05	1.90e-06	0.0	0.0
22	5.591	0.179	0.269	19.13	2.3	6.31e-06	0.0	0.31	3.72e-02	0.0	0.0
23	5.858	0.171	0.263	0.84	0.1	0.28	3.41e-02	5.56e-03	6.66e-04	0.0	0.0
24	6.010	0.166	0.260	5.89	0.7	8.26	1.0	0.01	1.59e-03	0.0	0.0
25	6.395	0.156	0.253	2.85	0.3	1.44	0.2	0.02	1.81e-03	0.0	0.0
26	6.816	0.147	0.245	6.87	0.8	5.57e-04	6.68e-05	7.04e-03	8.44e-04	0.0	0.0
27	7.023	0.142	0.241	33.46	4.0	0.40	4.78e-02	0.03	4.14e-03	0.0	0.0
28	7.183	0.139	0.238	0.10	1.25e-02	1.69	0.2	0.01	1.76e-03	0.0	0.0
29	7.374	0.136	0.234	33.11	4.0	0.88	0.1	0.15	1.84e-02	0.0	0.0
30	7.654	0.131	0.229	9.83e-04	1.18e-04	0.69	8.32e-02	0.73	8.81e-02	0.0	0.0
31	7.889	0.127	0.225	3.32	0.4	14.14	1.7	0.10	1.22e-02	0.0	0.0
32	8.150	0.123	0.221	0.12	1.45e-02	17.74	2.1	0.04	4.87e-03	0.0	0.0
33	8.472	0.118	0.222	15.22	1.8	21.73	2.6	7.03e-03	8.43e-04	0.0	0.0
34	8.670	0.115	0.227	3.15	0.4	5.44	0.7	0.03	3.38e-03	0.0	0.0
35	9.008	0.111	0.234	0.76	9.05e-02	1.78	0.2	0.04	5.09e-03	0.0	0.0
36	9.350	0.107	0.242	2.38	0.3	8.66	1.0	0.04	4.56e-03	0.0	0.0
37	9.796	0.102	0.251	0.12	1.44e-02	0.79	9.45e-02	4.99e-04	5.98e-05	0.0	0.0
38	10.422	0.096	0.245	10.62	1.3	0.05	6.02e-03	2.53	0.3	0.0	0.0
39	10.541	0.095	0.243	1.71	0.2	0.42	5.05e-02	0.50	6.02e-02	0.0	0.0
40	10.699	0.093	0.239	3.03	0.4	0.25	3.03e-02	2.73	0.3	0.0	0.0
41	10.781	0.093	0.238	2.52	0.3	1.26	0.2	0.10	1.24e-02	0.0	0.0
42	11.771	0.085	0.220	1.08e-03	1.29e-04	5.60	0.7	5.85e-04	7.01e-05	0.0	0.0
43	12.184	0.082	0.213	5.76e-03	6.90e-04	3.51	0.4	0.02	2.24e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
44	12.418	0.081	0.210	5.71	0.7	13.47	1.6	10.27	1.2	0.0	0.0
45	12.497	0.080	0.209	2.73	0.3	5.39	0.6	25.36	3.0	0.0	0.0
46	13.194	0.076	0.199	9.27	1.1	0.18	2.15e-02	0.02	2.30e-03	0.0	0.0
47	13.433	0.074	0.196	4.03	0.5	0.51	6.11e-02	0.08	9.41e-03	0.0	0.0
48	13.598	0.074	0.193	4.79	0.6	0.62	7.38e-02	0.61	7.30e-02	0.0	0.0
49	13.800	0.072	0.191	0.19	2.32e-02	2.33e-04	2.79e-05	2.57	0.3	0.0	0.0
50	13.893	0.072	0.190	0.07	8.35e-03	0.80	9.59e-02	0.02	2.82e-03	0.0	0.0
51	14.240	0.070	0.186	5.27	0.6	0.09	1.06e-02	0.35	4.18e-02	0.0	0.0
52	14.359	0.070	0.184	1.51	0.2	0.91	0.1	3.46	0.4	0.0	0.0
53	14.583	0.069	0.182	0.21	2.54e-02	0.20	2.39e-02	0.05	5.44e-03	0.0	0.0
54	14.843	0.067	0.179	0.01	1.22e-03	0.31	3.69e-02	9.56e-03	1.15e-03	0.0	0.0
55	15.258	0.066	0.175	3.11	0.4	0.14	1.67e-02	0.03	3.44e-03	0.0	0.0
56	15.294	0.065	0.174	2.31e-03	2.77e-04	3.85e-03	4.62e-04	0.01	1.32e-03	0.0	0.0
57	15.411	0.065	0.173	0.03	3.27e-03	0.91	0.1	4.99e-03	5.99e-04	0.0	0.0
58	15.647	0.064	0.171	0.81	9.73e-02	3.26	0.4	0.03	3.35e-03	0.0	0.0
59	15.770	0.063	0.170	1.48	0.2	1.55	0.2	2.08e-03	2.50e-04	0.0	0.0
60	16.010	0.062	0.168	1.02	0.1	0.49	5.86e-02	4.25e-03	5.10e-04	0.0	0.0
61	16.032	0.062	0.167	9.83e-06	1.18e-06	1.32	0.2	8.71	1.0	0.0	0.0
62	16.348	0.061	0.165	0.78	9.37e-02	1.79	0.2	7.12	0.9	0.0	0.0
63	16.411	0.061	0.164	9.28e-03	1.11e-03	5.45	0.7	2.28	0.3	0.0	0.0
64	16.452	0.061	0.164	2.88	0.3	6.49	0.8	0.10	1.16e-02	0.0	0.0
65	16.679	0.060	0.162	5.70	0.7	0.92	0.1	0.34	4.06e-02	0.0	0.0
66	16.831	0.059	0.161	1.07	0.1	3.41	0.4	2.24e-05	2.68e-06	0.0	0.0
67	17.462	0.057	0.158	1.59	0.2	4.92	0.6	0.09	1.09e-02	0.0	0.0
68	17.651	0.057	0.157	0.23	2.79e-02	0.23	2.70e-02	0.09	1.12e-02	0.0	0.0
69	18.251	0.055	0.155	3.16e-05	3.78e-06	0.89	0.1	0.08	9.17e-03	0.0	0.0
70	18.322	0.055	0.154	0.58	6.93e-02	0.03	4.07e-03	0.05	6.02e-03	0.0	0.0
71	18.397	0.054	0.154	0.04	4.65e-03	5.53	0.7	3.32	0.4	0.0	0.0
72	18.514	0.054	0.154	2.45	0.3	1.86	0.2	0.48	5.78e-02	0.0	0.0
73	18.561	0.054	0.154	0.47	5.63e-02	0.48	5.75e-02	0.04	5.05e-03	0.0	0.0
74	19.007	0.053	0.152	7.14	0.9	0.63	7.59e-02	8.73	1.0	0.0	0.0
75	19.084	0.052	0.152	0.06	6.98e-03	1.94	0.2	0.04	4.46e-03	0.0	0.0
76	19.724	0.051	0.149	0.92	0.1	0.54	6.52e-02	0.03	3.50e-03	0.0	0.0
77	20.377	0.049	0.147	5.01e-03	6.00e-04	0.63	7.59e-02	14.77	1.8	0.0	0.0
78	20.737	0.048	0.146	0.05	6.41e-03	0.09	1.07e-02	5.77	0.7	0.0	0.0
79	21.820	0.046	0.143	1.60	0.2	0.08	9.85e-03	2.31	0.3	0.0	0.0
80	22.443	0.045	0.141	0.20	2.46e-02	0.24	2.93e-02	15.74	1.9	0.0	0.0
81	22.648	0.044	0.140	1.01	0.1	7.13e-03	8.55e-04	9.20	1.1	0.0	0.0
82	23.159	0.043	0.139	0.01	1.55e-03	0.06	6.82e-03	7.79	0.9	0.0	0.0
83	23.504	0.043	0.138	0.04	5.00e-03	0.78	9.36e-02	1.22	0.1	0.0	0.0
84	24.945	0.040	0.135	1.02	0.1	0.07	8.90e-03	0.02	2.55e-03	0.0	0.0
85	25.063	0.040	0.135	3.70e-03	4.43e-04	0.23	2.75e-02	0.21	2.50e-02	0.0	0.0
86	25.354	0.039	0.135	0.39	4.71e-02	1.40e-03	1.68e-04	0.36	4.30e-02	0.0	0.0
87	25.456	0.039	0.135	0.78	9.32e-02	2.76e-04	3.31e-05	2.84e-03	3.40e-04	0.0	0.0
88	25.671	0.039	0.134	0.07	8.43e-03	0.15	1.80e-02	2.85	0.3	0.0	0.0
89	26.022	0.038	0.134	0.07	8.29e-03	1.59e-04	1.91e-05	0.16	1.88e-02	0.0	0.0
90	26.321	0.038	0.134	3.29	0.4	0.01	1.41e-03	0.03	3.25e-03	0.0	0.0
91	26.636	0.038	0.134	0.02	2.34e-03	0.15	1.81e-02	1.52	0.2	0.0	0.0
92	26.716	0.037	0.134	0.19	2.23e-02	0.52	6.26e-02	0.13	1.55e-02	0.0	0.0
93	27.349	0.037	0.134	0.01	1.43e-03	1.08	0.1	0.14	1.70e-02	0.0	0.0
94	28.118	0.036	0.134	1.16e-03	1.39e-04	9.41e-03	1.13e-03	8.11	1.0	0.0	0.0
95	28.232	0.035	0.134	0.01	1.78e-03	0.04	4.79e-03	53.87	6.5	0.0	0.0
96	28.556	0.035	0.134	1.79	0.2	0.02	2.17e-03	0.04	4.66e-03	0.0	0.0
97	28.717	0.035	0.134	0.23	2.73e-02	0.55	6.54e-02	0.61	7.28e-02	0.0	0.0
98	29.090	0.034	0.134	0.03	3.56e-03	0.72	8.61e-02	0.04	5.34e-03	0.0	0.0
99	29.934	0.033	0.133	1.59	0.2	0.21	2.51e-02	0.01	1.33e-03	0.0	0.0
100	30.524	0.033	0.133	2.67	0.3	0.02	1.83e-03	8.77e-03	1.05e-03	0.0	0.0
101	31.530	0.032	0.133	2.39	0.3	0.04	5.03e-03	0.02	2.00e-03	0.0	0.0
102	31.787	0.031	0.133	0.06	7.52e-03	4.14e-04	4.97e-05	4.60	0.6	0.0	0.0
103	34.455	0.029	0.132	8.39e-04	1.01e-04	3.22e-03	3.86e-04	10.69	1.3	0.0	0.0
104	35.210	0.028	0.132	4.74	0.6	0.06	7.58e-03	1.33	0.2	0.0	0.0
105	36.237	0.028	0.132	1.91e-04	2.29e-05	0.05	5.65e-03	2.82	0.3	0.0	0.0
106	36.288	0.028	0.132	2.28e-03	2.74e-04	0.09	1.07e-02	2.72	0.3	0.0	0.0
107	36.584	0.027	0.132	0.20	2.37e-02	5.87e-06	0.0	0.03	4.05e-03	0.0	0.0
108	36.948	0.027	0.132	3.38e-04	4.05e-05	2.22e-04	2.67e-05	27.17	3.3	0.0	0.0
109	37.134	0.027	0.132	4.12e-05	4.94e-06	4.75e-03	5.70e-04	0.03	3.44e-03	0.0	0.0
110	37.695	0.027	0.132	0.02	2.49e-03	4.79e-04	5.74e-05	6.01e-03	7.21e-04	0.0	0.0
111	38.069	0.026	0.132	0.04	4.94e-03	1.88e-03	2.25e-04	2.51e-03	3.00e-04	0.0	0.0
112	39.523	0.025	0.132	8.90e-05	1.07e-05	0.40	4.79e-02	5.94e-06	0.0	0.0	0.0
113	40.357	0.025	0.132	2.25e-05	2.70e-06	0.01	1.31e-03	0.02	2.58e-03	0.0	0.0
114	41.204	0.024	0.131	2.86e-04	3.43e-05	0.0	0.0	59.88	7.2	0.0	0.0
115	41.408	0.024	0.131	8.65e-03	1.04e-03	8.50e-06	1.02e-06	0.05	5.61e-03	0.0	0.0
116	41.712	0.024	0.131	0.01	1.52e-03	9.77e-03	1.17e-03	0.13	1.57e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
117	41.754	0.024	0.131	0.03	3.67e-03	9.88e-03	1.18e-03	17.67	2.1	0.0	0.0
118	41.978	0.024	0.131	6.04e-03	7.25e-04	6.57e-03	7.88e-04	0.01	1.55e-03	0.0	0.0
119	43.711	0.023	0.131	0.29	3.42e-02	1.95	0.2	4.59e-03	5.50e-04	0.0	0.0
120	44.895	0.022	0.131	1.14e-03	1.36e-04	0.12	1.41e-02	0.03	3.50e-03	0.0	0.0
121	45.059	0.022	0.131	3.03e-06	0.0	9.77	1.2	1.50e-03	1.80e-04	0.0	0.0
122	45.622	0.022	0.131	1.43e-03	1.71e-04	0.02	2.02e-03	0.56	6.72e-02	0.0	0.0
123	46.332	0.022	0.131	3.99e-04	4.78e-05	0.02	1.92e-03	43.65	5.2	0.0	0.0
124	46.448	0.022	0.131	6.57e-03	7.88e-04	5.34e-04	6.41e-05	2.66	0.3	0.0	0.0
125	46.850	0.021	0.131	0.08	9.24e-03	0.97	0.1	3.41	0.4	0.0	0.0
126	46.916	0.021	0.131	0.08	1.00e-02	0.99	0.1	8.45	1.0	0.0	0.0
127	47.402	0.021	0.131	1.14e-03	1.37e-04	0.04	4.36e-03	11.54	1.4	0.0	0.0
128	49.258	0.020	0.131	2.68e-03	3.22e-04	9.18e-05	1.10e-05	102.43	12.3	0.0	0.0
129	49.698	0.020	0.131	0.04	4.26e-03	0.01	1.41e-03	3.73	0.4	0.0	0.0
130	49.856	0.020	0.131	7.63	0.9	4.09e-05	4.91e-06	0.25	2.95e-02	0.0	0.0
131	50.879	0.020	0.131	9.60e-03	1.15e-03	0.13	1.57e-02	27.22	3.3	0.0	0.0
132	52.820	0.019	0.131	1.12e-06	0.0	4.20e-06	0.0	37.17	4.5	0.0	0.0
133	53.494	0.019	0.131	1.08e-06	0.0	1.02e-03	1.22e-04	16.36	2.0	0.0	0.0
134	54.116	0.018	0.131	0.02	2.93e-03	0.0	0.0	16.49	2.0	0.0	0.0
135	54.346	0.018	0.131	0.08	9.41e-03	0.0	0.0	5.61e-05	6.73e-06	0.0	0.0
136	54.515	0.018	0.131	2.77e-06	0.0	0.07	7.90e-03	2.82e-05	3.38e-06	0.0	0.0
137	54.983	0.018	0.131	4.31e-03	5.17e-04	0.02	2.88e-03	29.26	3.5	0.0	0.0
138	55.350	0.018	0.131	6.13e-06	0.0	1.11e-04	1.34e-05	7.70e-03	9.23e-04	0.0	0.0
139	55.644	0.018	0.131	1.89e-03	2.26e-04	8.96e-06	1.07e-06	0.01	1.55e-03	0.0	0.0
140	55.711	0.018	0.131	0.09	1.05e-02	1.94e-03	2.32e-04	0.03	3.67e-03	0.0	0.0
141	56.685	0.018	0.131	1.71e-03	2.05e-04	0.02	2.50e-03	0.45	5.40e-02	0.0	0.0
142	56.772	0.018	0.131	1.71e-05	2.05e-06	7.34	0.9	5.71	0.7	0.0	0.0
143	58.235	0.017	0.131	7.38	0.9	0.0	0.0	5.02	0.6	0.0	0.0
144	58.984	0.017	0.131	0.01	1.37e-03	4.68e-04	5.61e-05	3.14	0.4	0.0	0.0
145	59.098	0.017	0.131	0.09	1.13e-02	5.39e-03	6.46e-04	30.89	3.7	0.0	0.0
146	60.270	0.017	0.131	4.38e-04	5.26e-05	3.05e-04	3.66e-05	3.03e-03	3.63e-04	0.0	0.0
147	60.691	0.016	0.131	1.74e-03	2.08e-04	9.49e-06	1.14e-06	7.83	0.9	0.0	0.0
148	60.694	0.016	0.131	5.54e-05	6.64e-06	2.47e-04	2.97e-05	17.11	2.1	0.0	0.0
149	61.147	0.016	0.131	2.93e-03	3.52e-04	9.84e-04	1.18e-04	1.25e-03	1.50e-04	0.0	0.0
150	61.313	0.016	0.131	1.25e-06	0.0	0.29	3.44e-02	1.73e-03	2.08e-04	0.0	0.0
151	61.691	0.016	0.131	1.32e-04	1.58e-05	0.0	0.0	13.92	1.7	0.0	0.0
152	61.729	0.016	0.131	2.19e-06	0.0	4.46e-04	5.35e-05	13.56	1.6	0.0	0.0
153	63.119	0.016	0.131	0.23	2.79e-02	1.73e-06	0.0	0.03	3.44e-03	0.0	0.0
154	63.646	0.016	0.131	1.04	0.1	0.02	2.98e-03	3.97	0.5	0.0	0.0
155	64.947	0.015	0.131	0.68	8.13e-02	0.04	5.15e-03	1.15	0.1	0.0	0.0
156	67.288	0.015	0.131	4.28e-04	5.13e-05	8.76e-04	1.05e-04	0.03	3.53e-03	0.0	0.0
157	69.048	0.014	0.131	2.56e-04	3.07e-05	3.32e-05	3.99e-06	0.14	1.67e-02	0.0	0.0
158	70.053	0.014	0.131	7.54e-03	9.04e-04	4.70e-04	5.63e-05	0.07	8.27e-03	0.0	0.0
159	70.171	0.014	0.131	0.05	5.88e-03	8.88e-04	1.06e-04	0.04	4.86e-03	0.0	0.0
160	70.991	0.014	0.131	9.38e-04	1.12e-04	6.71e-03	8.05e-04	0.33	3.96e-02	0.0	0.0
161	72.839	0.014	0.131	1.34e-03	1.60e-04	1.37e-03	1.65e-04	0.28	3.34e-02	0.0	0.0
162	75.138	0.013	0.131	3.47e-03	4.17e-04	0.12	1.42e-02	1.97e-03	2.37e-04	0.0	0.0
163	75.326	0.013	0.131	0.05	5.82e-03	0.03	3.08e-03	6.82e-06	0.0	0.0	0.0
164	75.379	0.013	0.131	0.04	4.99e-03	0.04	4.26e-03	0.03	3.33e-03	0.0	0.0
165	76.669	0.013	0.131	7.46e-04	8.94e-05	0.03	3.80e-03	0.34	4.12e-02	0.0	0.0
166	77.123	0.013	0.131	1.08e-04	1.29e-05	0.01	1.57e-03	0.53	6.38e-02	0.0	0.0
167	78.562	0.013	0.131	0.19	2.28e-02	4.52e-04	5.42e-05	0.07	7.94e-03	0.0	0.0
168	79.384	0.013	0.131	9.04e-03	1.08e-03	0.02	1.85e-03	0.60	7.23e-02	0.0	0.0
169	79.912	0.013	0.131	2.51e-04	3.00e-05	1.23e-05	1.47e-06	15.31	1.8	0.0	0.0
170	81.310	0.012	0.131	6.81e-03	8.16e-04	5.31e-03	6.37e-04	0.23	2.75e-02	0.0	0.0
171	82.861	0.012	0.131	1.12e-03	1.34e-04	0.23	2.75e-02	2.51e-03	3.01e-04	0.0	0.0
172	83.176	0.012	0.131	2.60e-05	3.12e-06	0.13	1.58e-02	3.21	0.4	0.0	0.0
173	84.337	0.012	0.131	2.04e-03	2.45e-04	1.86e-03	2.23e-04	1.97	0.2	0.0	0.0
174	85.106	0.012	0.131	5.17e-05	6.20e-06	0.01	1.63e-03	0.13	1.55e-02	0.0	0.0
175	86.990	0.011	0.131	6.27e-04	7.52e-05	1.74e-03	2.09e-04	0.99	0.1	0.0	0.0
176	88.652	0.011	0.131	1.49e-03	1.79e-04	6.72e-05	8.06e-06	0.26	3.14e-02	0.0	0.0
177	90.027	0.011	0.131	2.98e-04	3.58e-05	0.28	3.38e-02	0.79	9.43e-02	0.0	0.0
178	91.659	0.011	0.131	3.13e-05	3.75e-06	0.02	2.39e-03	0.48	5.80e-02	0.0	0.0
179	92.321	0.011	0.131	0.05	6.43e-03	3.98e-04	4.77e-05	4.33e-03	5.20e-04	0.0	0.0
180	95.649	0.010	0.131	2.12e-05	2.54e-06	0.14	1.69e-02	0.07	8.80e-03	0.0	0.0
181	96.339	0.010	0.131	9.69e-05	1.16e-05	0.05	5.74e-03	0.79	9.42e-02	0.0	0.0
182	97.162	0.010	0.131	1.75e-03	2.09e-04	0.27	3.23e-02	0.09	1.03e-02	0.0	0.0
183	98.593	0.010	0.131	4.14e-03	4.97e-04	0.01	1.76e-03	0.24	2.83e-02	0.0	0.0
184	100.495	0.010	0.131	0.01	1.53e-03	6.29e-03	7.54e-04	0.36	4.26e-02	0.0	0.0
185	102.163	0.010	0.131	2.93e-03	3.51e-04	4.08e-03	4.89e-04	3.58	0.4	0.0	0.0
186	106.224	0.009	0.131	1.94e-05	2.33e-06	3.32e-05	3.98e-06	7.04	0.8	0.0	0.0
187	106.843	0.009	0.131	8.01e-06	0.0	8.51e-03	1.02e-03	0.05	5.47e-03	0.0	0.0
188	113.315	0.009	0.131	4.84e-04	5.80e-05	7.30e-05	8.75e-06	0.05	5.55e-03	0.0	0.0
189	114.611	0.009	0.131	8.04e-03	9.64e-04	3.66e-04	4.39e-05	4.43e-03	5.31e-04	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
190	115.756	0.009	0.131	6.60e-05	7.92e-06	0.06	7.61e-03	2.72e-03	3.26e-04	0.0	0.0
191	127.977	0.008	0.131	3.82e-03	4.58e-04	0.03	3.47e-03	0.05	5.49e-03	0.0	0.0
192	130.101	0.008	0.131	0.17	2.09e-02	0.14	1.74e-02	0.03	3.15e-03	0.0	0.0
193	133.711	0.007	0.131	5.83e-03	6.99e-04	2.16e-05	2.59e-06	3.11	0.4	0.0	0.0
194	136.216	0.007	0.131	0.69	8.29e-02	0.08	9.95e-03	0.04	5.25e-03	0.0	0.0
195	137.326	0.007	0.131	0.02	2.04e-03	0.04	4.78e-03	2.40e-03	2.88e-04	0.0	0.0
196	145.308	0.007	0.131	0.05	6.01e-03	0.02	1.96e-03	11.91	1.4	0.0	0.0
197	147.282	0.007	0.131	0.15	1.81e-02	0.15	1.75e-02	6.55	0.8	0.0	0.0
198	149.084	0.007	0.131	0.21	2.46e-02	0.02	2.90e-03	0.16	1.93e-02	0.0	0.0
199	155.238	0.006	0.131	2.45e-03	2.94e-04	5.83e-03	7.00e-04	8.68	1.0	0.0	0.0
200	161.974	0.006	0.131	0.19	2.23e-02	0.04	4.61e-03	0.02	2.29e-03	0.0	0.0
201	168.167	0.006	0.131	0.19	2.22e-02	0.07	8.61e-03	1.23	0.1	0.0	0.0
202	171.618	0.006	0.131	1.59e-03	1.90e-04	4.99e-03	5.98e-04	10.35	1.2	0.0	0.0
203	177.770	0.006	0.131	0.03	4.02e-03	0.15	1.83e-02	0.18	2.12e-02	0.0	0.0
204	185.408	0.005	0.131	0.05	5.96e-03	0.03	3.41e-03	0.29	3.44e-02	0.0	0.0
205	190.880	0.005	0.131	0.04	4.43e-03	4.24e-04	5.09e-05	1.57	0.2	0.0	0.0
206	195.332	0.005	0.131	0.04	4.57e-03	7.01e-04	8.41e-05	1.20	0.1	0.0	0.0
207	212.623	0.005	0.131	0.01	1.76e-03	0.06	6.72e-03	0.09	1.12e-02	0.0	0.0
208	220.383	0.005	0.131	6.81e-04	8.16e-05	0.02	2.73e-03	3.25	0.4	0.0	0.0
209	225.036	0.004	0.131	9.38e-03	1.12e-03	0.04	4.22e-03	0.97	0.1	0.0	0.0
210	253.606	0.004	0.131	6.42e-04	7.69e-05	0.10	1.17e-02	5.74e-03	6.88e-04	0.0	0.0
211	265.098	0.004	0.131	8.94e-03	1.07e-03	1.24e-03	1.49e-04	2.52	0.3	0.0	0.0
212	269.754	0.004	0.131	0.09	1.08e-02	0.03	3.61e-03	0.17	2.08e-02	0.0	0.0
213	289.159	0.003	0.131	0.06	6.90e-03	0.03	3.56e-03	5.02e-03	6.01e-04	0.0	0.0
214	303.622	0.003	0.131	0.05	6.49e-03	3.11e-03	3.73e-04	0.01	1.34e-03	0.0	0.0
215	335.457	0.003	0.131	3.41e-04	4.08e-05	3.33e-05	3.99e-06	0.81	9.68e-02	0.0	0.0
216	351.606	0.003	0.131	9.32e-03	1.12e-03	3.91e-05	4.68e-06	0.02	2.00e-03	0.0	0.0
217	389.391	0.003	0.131	8.63e-04	1.04e-04	2.11e-03	2.53e-04	0.13	1.59e-02	0.0	0.0
218	415.459	0.002	0.131	1.48e-05	1.77e-06	1.15e-06	0.0	0.78	9.39e-02	0.0	0.0
219	542.583	0.002	0.131	7.21e-04	8.64e-05	7.83e-04	9.38e-05	0.32	3.81e-02	0.0	0.0
220	563.170	0.002	0.131	4.00e-03	4.80e-04	6.66e-04	7.99e-05	0.13	1.60e-02	0.0	0.0
221	609.924	0.002	0.131	1.22e-04	1.46e-05	1.65e-05	1.98e-06	0.54	6.47e-02	0.0	0.0
222	819.985	0.001	0.131	1.25e-04	1.50e-05	5.44e-04	6.52e-05	5.99e-03	7.18e-04	0.0	0.0
223	918.591	0.001	0.131	5.83e-04	6.99e-05	1.57e-05	1.88e-06	0.08	9.82e-03	0.0	0.0
224	962.252	0.001	0.131	7.29e-05	8.74e-06	1.66e-05	2.00e-06	0.27	3.21e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
13	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.336 sec.
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	0.0	-0.40	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	0.0	-0.54	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	0.0	-0.54	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	0.0	-0.30	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	0.0	-0.54	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	0.0	-0.38	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	0.0	-0.08	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.826	1.211	0.087	10.34	1.2	4.66e-04	5.58e-05	0.0	0.0	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
2	0.829	1.206	0.087	0.03	3.83e-03	0.0	0.0	4.93e-06	0.0	0.0	0.0
3	1.027	0.974	0.097	1.90e-03	2.28e-04	11.57	1.4	1.17e-05	1.40e-06	0.0	0.0
4	1.032	0.969	0.097	9.22e-05	1.11e-05	0.03	3.16e-03	1.34e-05	1.61e-06	0.0	0.0
5	1.248	0.801	0.109	12.09	1.4	4.87e-03	5.84e-04	0.0	0.0	0.0	0.0
6	1.250	0.800	0.109	0.04	4.80e-03	3.36e-06	0.0	4.72e-06	0.0	0.0	0.0
7	1.325	0.755	0.116	2.44e-03	2.92e-04	11.18	1.3	1.62e-06	0.0	0.0	0.0
8	1.327	0.754	0.116	6.60e-05	7.91e-06	0.03	3.78e-03	8.01e-06	0.0	0.0	0.0
9	1.441	0.694	0.139	7.42	0.9	0.0	0.0	1.21e-05	1.45e-06	0.0	0.0
10	1.448	0.691	0.140	0.01	1.73e-03	1.09e-04	1.30e-05	1.13e-05	1.35e-06	0.0	0.0
11	1.512	0.662	0.156	5.95e-06	0.0	3.66	0.4	0.0	0.0	0.0	0.0
12	2.221	0.450	0.263	0.99	0.1	12.15	1.5	1.86e-04	2.23e-05	0.0	0.0
13	2.357	0.424	0.261	177.26	21.3	347.54	41.7	0.03	4.18e-03	0.0	0.0
14	2.979	0.336	0.319	309.79	37.1	180.58	21.7	0.01	1.46e-03	0.0	0.0
15	3.415	0.293	0.363	24.35	2.9	11.31	1.4	6.87e-04	8.23e-05	0.0	0.0
16	3.588	0.279	0.351	23.15	2.8	0.95	0.1	4.29e-03	5.14e-04	0.0	0.0
17	3.910	0.256	0.367	0.17	1.99e-02	3.43	0.4	0.02	2.04e-03	0.0	0.0
18	4.182	0.239	0.344	0.05	6.28e-03	1.58	0.2	8.66e-03	1.04e-03	0.0	0.0
19	4.258	0.235	0.331	4.19e-03	5.03e-04	19.44	2.3	1.57e-04	1.88e-05	0.0	0.0
20	4.383	0.228	0.309	0.29	3.49e-02	40.68	4.9	0.12	1.44e-02	0.0	0.0
21	4.786	0.209	0.267	22.14	2.7	0.0	0.0	1.85e-05	2.22e-06	0.0	0.0
22	5.736	0.174	0.236	0.25	3.03e-02	1.53	0.2	0.07	8.35e-03	0.0	0.0
23	5.940	0.168	0.232	1.62	0.2	9.58	1.1	5.76e-06	0.0	0.0	0.0
24	6.248	0.160	0.227	16.15	1.9	1.26	0.2	0.33	3.97e-02	0.0	0.0
25	6.523	0.153	0.223	8.25	1.0	0.24	2.89e-02	0.11	1.31e-02	0.0	0.0
26	6.741	0.148	0.219	17.88	2.1	0.15	1.82e-02	0.02	2.18e-03	0.0	0.0
27	7.005	0.143	0.215	32.02	3.8	1.10	0.1	0.07	8.21e-03	0.0	0.0
28	7.142	0.140	0.214	2.18	0.3	3.61	0.4	1.16e-04	1.40e-05	0.0	0.0
29	7.352	0.136	0.210	19.26	2.3	0.02	1.89e-03	0.05	5.91e-03	0.0	0.0
30	7.796	0.128	0.204	1.66	0.2	10.67	1.3	4.23e-03	5.07e-04	0.0	0.0
31	8.122	0.123	0.199	6.38	0.8	27.92	3.3	0.07	8.18e-03	0.0	0.0
32	8.223	0.122	0.198	6.14	0.7	1.06	0.1	0.50	6.04e-02	0.0	0.0
33	8.438	0.119	0.199	4.31	0.5	3.43	0.4	0.60	7.20e-02	0.0	0.0
34	8.719	0.115	0.205	5.14e-03	6.16e-04	5.98	0.7	0.13	1.60e-02	0.0	0.0
35	8.921	0.112	0.209	3.32	0.4	15.00	1.8	2.11e-06	0.0	0.0	0.0
36	9.244	0.108	0.216	4.88	0.6	4.37	0.5	0.12	1.39e-02	0.0	0.0
37	9.522	0.105	0.221	0.84	0.1	3.83e-04	4.59e-05	0.0	0.0	0.0	0.0
38	10.700	0.093	0.217	0.93	0.1	1.15	0.1	0.54	6.46e-02	0.0	0.0
39	10.746	0.093	0.216	9.18	1.1	0.10	1.22e-02	1.30	0.2	0.0	0.0
40	10.918	0.092	0.213	0.05	5.94e-03	8.52e-03	1.02e-03	5.00e-03	6.00e-04	0.0	0.0
41	11.346	0.088	0.207	6.38	0.8	7.62e-03	9.13e-04	5.59	0.7	0.0	0.0
42	11.615	0.086	0.203	2.13e-03	2.56e-04	5.46	0.7	1.87e-04	2.25e-05	0.0	0.0
43	12.163	0.082	0.195	5.22e-05	6.25e-06	3.54	0.4	3.47e-03	4.16e-04	0.0	0.0
44	12.465	0.080	0.192	0.44	5.33e-02	0.12	1.40e-02	34.63	4.2	0.0	0.0
45	12.915	0.077	0.185	19.00	2.3	13.69	1.6	0.81	9.77e-02	0.0	0.0
46	13.166	0.076	0.182	7.46	0.9	1.15e-04	1.37e-05	1.67e-03	2.00e-04	0.0	0.0
47	13.409	0.075	0.179	1.47e-03	1.77e-04	0.31	3.74e-02	0.24	2.83e-02	0.0	0.0
48	13.700	0.073	0.175	0.68	8.21e-02	1.64	0.2	0.15	1.80e-02	0.0	0.0
49	14.115	0.071	0.170	0.53	6.39e-02	4.69	0.6	0.31	3.69e-02	0.0	0.0
50	14.303	0.070	0.168	1.00	0.1	2.49	0.3	0.01	1.76e-03	0.0	0.0
51	14.624	0.068	0.165	1.74	0.2	2.10	0.3	1.21	0.1	0.0	0.0
52	14.714	0.068	0.164	0.01	1.52e-03	0.32	3.80e-02	4.37	0.5	0.0	0.0
53	14.954	0.067	0.161	0.39	4.73e-02	0.02	1.94e-03	0.02	2.17e-03	0.0	0.0
54	15.260	0.066	0.158	1.90	0.2	1.27e-03	1.52e-04	0.02	2.05e-03	0.0	0.0
55	15.302	0.065	0.158	0.02	2.21e-03	0.54	6.42e-02	1.05	0.1	0.0	0.0
56	15.347	0.065	0.158	0.10	1.21e-02	0.63	7.56e-02	0.03	3.92e-03	0.0	0.0
57	15.484	0.065	0.156	2.64	0.3	0.01	1.73e-03	0.01	1.49e-03	0.0	0.0
58	15.564	0.064	0.155	1.87	0.2	1.89	0.2	0.01	1.43e-03	0.0	0.0
59	15.653	0.064	0.155	1.21	0.1	4.43	0.5	2.54e-03	3.04e-04	0.0	0.0
60	15.898	0.063	0.152	5.21	0.6	8.17	1.0	0.14	1.63e-02	0.0	0.0
61	16.155	0.062	0.150	0.16	1.97e-02	2.37	0.3	0.03	3.71e-03	0.0	0.0
62	16.334	0.061	0.149	1.08	0.1	5.48e-03	6.58e-04	1.67e-03	2.01e-04	0.0	0.0
63	16.591	0.060	0.146	0.25	3.00e-02	0.28	3.37e-02	9.90	1.2	0.0	0.0
64	16.660	0.060	0.146	3.25	0.4	7.54	0.9	1.20	0.1	0.0	0.0
65	17.106	0.058	0.144	0.27	3.23e-02	7.54e-03	9.04e-04	0.20	2.43e-02	0.0	0.0
66	17.179	0.058	0.144	2.44	0.3	1.36	0.2	1.44	0.2	0.0	0.0
67	17.669	0.057	0.142	0.48	5.79e-02	0.01	1.56e-03	10.63	1.3	0.0	0.0
68	18.008	0.056	0.140	1.89	0.2	3.13	0.4	0.13	1.58e-02	0.0	0.0
69	18.313	0.055	0.139	0.46	5.48e-02	1.71e-04	2.05e-05	0.01	1.46e-03	0.0	0.0
70	18.475	0.054	0.138	0.43	5.17e-02	0.02	2.60e-03	0.02	2.17e-03	0.0	0.0
71	18.824	0.053	0.137	0.85	0.1	2.23	0.3	0.60	7.24e-02	0.0	0.0
72	18.927	0.053	0.137	0.14	1.70e-02	3.67	0.4	5.39	0.6	0.0	0.0
73	19.268	0.052	0.136	2.11	0.3	0.14	1.71e-02	7.32	0.9	0.0	0.0
74	19.434	0.051	0.135	3.36	0.4	1.68	0.2	4.88	0.6	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
75	19.650	0.051	0.134	0.50	6.05e-02	0.23	2.76e-02	1.18	0.1	0.0	0.0
76	20.203	0.049	0.133	0.13	1.55e-02	0.09	1.13e-02	0.22	2.63e-02	0.0	0.0
77	20.933	0.048	0.130	0.81	9.67e-02	1.11	0.1	7.03	0.8	0.0	0.0
78	21.332	0.047	0.129	0.17	2.02e-02	0.05	5.51e-03	1.46	0.2	0.0	0.0
79	21.944	0.046	0.128	0.60	7.19e-02	0.84	0.1	7.40	0.9	0.0	0.0
80	22.263	0.045	0.127	7.75e-03	9.29e-04	0.20	2.41e-02	1.44	0.2	0.0	0.0
81	23.096	0.043	0.125	0.10	1.19e-02	0.40	4.74e-02	3.28	0.4	0.0	0.0
82	23.276	0.043	0.124	0.57	6.83e-02	0.02	2.24e-03	2.38	0.3	0.0	0.0
83	23.449	0.043	0.124	2.80	0.3	4.76e-03	5.71e-04	15.79	1.9	0.0	0.0
84	24.402	0.041	0.122	0.17	2.00e-02	3.24e-03	3.89e-04	5.12	0.6	0.0	0.0
85	25.005	0.040	0.121	0.02	1.87e-03	1.90	0.2	0.09	1.09e-02	0.0	0.0
86	25.304	0.040	0.120	0.61	7.26e-02	1.09e-06	0.0	7.52e-03	9.02e-04	0.0	0.0
87	25.399	0.039	0.120	1.80e-04	2.15e-05	0.16	1.98e-02	0.22	2.65e-02	0.0	0.0
88	25.737	0.039	0.120	3.72	0.4	0.05	5.69e-03	0.11	1.31e-02	0.0	0.0
89	25.890	0.039	0.120	0.22	2.69e-02	2.80e-06	0.0	0.01	1.35e-03	0.0	0.0
90	26.298	0.038	0.120	0.05	5.97e-03	8.47e-04	1.02e-04	1.34	0.2	0.0	0.0
91	26.355	0.038	0.120	0.01	1.65e-03	0.01	1.64e-03	2.50	0.3	0.0	0.0
92	27.100	0.037	0.120	0.04	4.66e-03	0.04	5.16e-03	3.23	0.4	0.0	0.0
93	27.382	0.037	0.120	1.08	0.1	8.38e-05	1.00e-05	0.08	9.00e-03	0.0	0.0
94	28.131	0.036	0.120	2.40e-04	2.88e-05	3.55e-04	4.25e-05	8.17	1.0	0.0	0.0
95	28.251	0.035	0.120	1.28e-04	1.53e-05	6.20e-03	7.44e-04	52.98	6.4	0.0	0.0
96	28.637	0.035	0.119	0.37	4.46e-02	3.07e-03	3.69e-04	0.21	2.56e-02	0.0	0.0
97	29.470	0.034	0.119	0.02	2.86e-03	0.07	8.56e-03	2.73e-05	3.28e-06	0.0	0.0
98	30.316	0.033	0.119	0.33	3.92e-02	1.29	0.2	1.15e-04	1.38e-05	0.0	0.0
99	30.807	0.032	0.119	3.12	0.4	0.13	1.51e-02	0.01	1.58e-03	0.0	0.0
100	31.784	0.031	0.119	0.10	1.25e-02	0.13	1.58e-02	1.30	0.2	0.0	0.0
101	31.819	0.031	0.119	0.09	1.08e-02	0.06	7.10e-03	2.91	0.3	0.0	0.0
102	33.119	0.030	0.118	4.03	0.5	6.72e-03	8.05e-04	0.47	5.61e-02	0.0	0.0
103	34.366	0.029	0.118	4.08	0.5	0.09	1.06e-02	0.32	3.79e-02	0.0	0.0
104	34.494	0.029	0.118	0.04	5.11e-03	5.22e-03	6.25e-04	11.46	1.4	0.0	0.0
105	36.258	0.028	0.118	6.28e-04	7.53e-05	2.16e-03	2.59e-04	5.28	0.6	0.0	0.0
106	36.327	0.028	0.118	1.60e-03	1.92e-04	0.13	1.54e-02	0.72	8.69e-02	0.0	0.0
107	36.715	0.027	0.118	0.16	1.87e-02	1.06e-05	1.27e-06	0.02	2.15e-03	0.0	0.0
108	36.955	0.027	0.118	3.16e-04	3.78e-05	2.51e-04	3.01e-05	26.63	3.2	0.0	0.0
109	37.278	0.027	0.118	1.71e-03	2.05e-04	0.42	4.98e-02	0.09	1.06e-02	0.0	0.0
110	37.396	0.027	0.118	6.21e-04	7.44e-05	0.03	3.31e-03	4.95e-03	5.93e-04	0.0	0.0
111	37.678	0.027	0.118	0.02	2.99e-03	0.01	1.64e-03	1.85e-04	2.22e-05	0.0	0.0
112	38.134	0.026	0.118	0.02	2.62e-03	5.57e-04	6.68e-05	0.01	1.20e-03	0.0	0.0
113	41.227	0.024	0.117	1.01e-03	1.22e-04	8.20e-04	9.83e-05	58.23	7.0	0.0	0.0
114	41.381	0.024	0.117	2.31e-05	2.77e-06	6.00e-03	7.20e-04	1.38e-04	1.66e-05	0.0	0.0
115	41.732	0.024	0.117	0.01	1.74e-03	0.02	2.67e-03	0.25	3.00e-02	0.0	0.0
116	41.770	0.024	0.117	0.04	4.33e-03	0.02	1.82e-03	17.71	2.1	0.0	0.0
117	41.995	0.024	0.117	4.65e-03	5.58e-04	4.42e-03	5.30e-04	0.01	1.36e-03	0.0	0.0
118	42.378	0.024	0.117	2.35e-04	2.81e-05	0.03	4.00e-03	0.03	3.95e-03	0.0	0.0
119	42.601	0.023	0.117	5.33e-03	6.39e-04	8.61e-04	1.03e-04	8.60e-03	1.03e-03	0.0	0.0
120	44.162	0.023	0.117	0.22	2.68e-02	2.53	0.3	2.33e-03	2.79e-04	0.0	0.0
121	45.605	0.022	0.117	1.26e-03	1.51e-04	4.89e-03	5.87e-04	0.07	7.99e-03	0.0	0.0
122	46.393	0.022	0.117	6.89e-05	8.26e-06	0.02	2.54e-03	47.04	5.6	0.0	0.0
123	46.532	0.021	0.117	3.65e-03	4.38e-04	2.78e-03	3.33e-04	2.71	0.3	0.0	0.0
124	46.883	0.021	0.116	7.35e-04	8.82e-05	3.77e-03	4.52e-04	11.85	1.4	0.0	0.0
125	47.132	0.021	0.116	0.24	2.82e-02	1.34	0.2	0.95	0.1	0.0	0.0
126	47.418	0.021	0.116	3.82e-03	4.59e-04	0.05	6.41e-03	9.67	1.2	0.0	0.0
127	48.627	0.021	0.116	1.30e-06	0.0	8.09	1.0	2.79e-03	3.34e-04	0.0	0.0
128	49.257	0.020	0.116	6.32e-05	7.57e-06	8.87e-03	1.06e-03	101.43	12.2	0.0	0.0
129	49.683	0.020	0.116	5.81e-04	6.97e-05	6.63e-03	7.95e-04	1.56	0.2	0.0	0.0
130	50.740	0.020	0.116	9.10e-03	1.09e-03	0.11	1.33e-02	28.78	3.5	0.0	0.0
131	52.820	0.019	0.116	0.0	0.0	2.41e-06	0.0	37.23	4.5	0.0	0.0
132	53.439	0.019	0.116	2.67e-03	3.21e-04	0.02	2.84e-03	1.28	0.2	0.0	0.0
133	54.065	0.018	0.116	1.58e-06	0.0	3.54e-03	4.24e-04	16.70	2.0	0.0	0.0
134	54.247	0.018	0.116	2.89e-03	3.47e-04	0.07	7.99e-03	3.46e-03	4.15e-04	0.0	0.0
135	54.265	0.018	0.116	0.11	1.34e-02	1.00e-04	1.20e-05	5.57e-03	6.67e-04	0.0	0.0
136	54.323	0.018	0.116	3.24	0.4	1.27e-05	1.52e-06	8.03	1.0	0.0	0.0
137	54.546	0.018	0.116	3.99e-04	4.79e-05	9.53e-05	1.14e-05	0.02	2.73e-03	0.0	0.0
138	54.700	0.018	0.116	0.10	1.20e-02	2.37e-03	2.85e-04	0.27	3.22e-02	0.0	0.0
139	54.907	0.018	0.116	2.09	0.3	1.32e-06	0.0	9.13	1.1	0.0	0.0
140	54.996	0.018	0.116	2.95e-03	3.54e-04	0.03	3.31e-03	27.60	3.3	0.0	0.0
141	55.353	0.018	0.116	4.60e-05	5.51e-06	1.48e-04	1.77e-05	5.03e-03	6.03e-04	0.0	0.0
142	58.241	0.017	0.116	1.63e-05	1.95e-06	7.22	0.9	5.18	0.6	0.0	0.0
143	58.960	0.017	0.116	0.05	6.39e-03	3.01e-03	3.60e-04	12.55	1.5	0.0	0.0
144	59.042	0.017	0.116	0.08	9.62e-03	5.51e-03	6.60e-04	21.02	2.5	0.0	0.0
145	59.442	0.017	0.116	4.19e-04	5.02e-05	7.00e-04	8.39e-05	3.61e-03	4.33e-04	0.0	0.0
146	59.911	0.017	0.116	7.79	0.9	0.0	0.0	5.07	0.6	0.0	0.0
147	60.697	0.016	0.116	0.03	3.01e-03	4.26e-04	5.11e-05	3.43	0.4	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
148	60.699	0.016	0.116	4.95e-03	5.94e-04	2.91e-03	3.49e-04	20.92	2.5	0.0	0.0
149	61.066	0.016	0.116	5.41e-03	6.49e-04	2.28e-04	2.74e-05	0.04	4.50e-03	0.0	0.0
150	61.693	0.016	0.116	2.32e-04	2.78e-05	0.0	0.0	14.76	1.8	0.0	0.0
151	61.730	0.016	0.116	3.62e-05	4.33e-06	2.67e-04	3.20e-05	12.77	1.5	0.0	0.0
152	62.371	0.016	0.116	0.88	0.1	0.03	4.04e-03	5.08	0.6	0.0	0.0
153	63.120	0.016	0.116	0.0	0.0	0.23	2.81e-02	0.02	2.96e-03	0.0	0.0
154	65.044	0.015	0.116	0.19	2.28e-02	1.20e-06	0.0	0.03	3.34e-03	0.0	0.0
155	65.307	0.015	0.116	0.06	7.21e-03	7.52e-04	9.02e-05	0.04	4.57e-03	0.0	0.0
156	66.037	0.015	0.116	0.82	9.87e-02	0.04	4.59e-03	1.15	0.1	0.0	0.0
157	69.097	0.014	0.116	2.40e-06	0.0	7.41e-04	8.88e-05	0.13	1.50e-02	0.0	0.0
158	70.051	0.014	0.116	0.11	1.27e-02	1.15e-03	1.37e-04	0.02	1.93e-03	0.0	0.0
159	70.227	0.014	0.116	1.10e-04	1.32e-05	0.02	1.84e-03	0.02	2.38e-03	0.0	0.0
160	70.289	0.014	0.116	3.54e-04	4.24e-05	2.43e-03	2.92e-04	0.05	5.59e-03	0.0	0.0
161	70.931	0.014	0.116	9.20e-04	1.10e-04	0.02	2.81e-03	0.08	9.73e-03	0.0	0.0
162	72.924	0.014	0.116	0.03	3.44e-03	5.67e-04	6.80e-05	0.04	4.67e-03	0.0	0.0
163	73.405	0.014	0.116	1.99e-03	2.39e-04	1.46e-04	1.75e-05	0.49	5.89e-02	0.0	0.0
164	73.734	0.014	0.116	0.01	1.32e-03	8.20e-03	9.84e-04	0.44	5.28e-02	0.0	0.0
165	75.595	0.013	0.116	6.58e-04	7.89e-05	0.08	9.53e-03	0.02	2.33e-03	0.0	0.0
166	76.135	0.013	0.116	3.60e-03	4.32e-04	5.18e-03	6.22e-04	0.31	3.77e-02	0.0	0.0
167	78.631	0.013	0.116	2.23e-03	2.67e-04	0.19	2.31e-02	0.06	7.03e-03	0.0	0.0
168	79.225	0.013	0.116	1.27e-03	1.53e-04	6.03e-05	7.23e-06	0.46	5.52e-02	0.0	0.0
169	79.613	0.013	0.116	1.81e-03	2.17e-04	3.94e-03	4.73e-04	1.04	0.1	0.0	0.0
170	79.951	0.013	0.116	3.38e-05	4.05e-06	2.87e-03	3.45e-04	14.57	1.7	0.0	0.0
171	82.570	0.012	0.116	0.20	2.36e-02	1.42e-03	1.70e-04	0.39	4.72e-02	0.0	0.0
172	83.142	0.012	0.116	1.93e-03	2.31e-04	0.27	3.22e-02	0.92	0.1	0.0	0.0
173	83.665	0.012	0.116	4.39e-04	5.26e-05	0.03	3.64e-03	2.41	0.3	0.0	0.0
174	84.860	0.012	0.116	2.86e-04	3.43e-05	2.36e-03	2.83e-04	1.27	0.2	0.0	0.0
175	87.778	0.011	0.116	3.88e-03	4.66e-04	1.73e-04	2.07e-05	0.02	2.54e-03	0.0	0.0
176	89.054	0.011	0.116	2.40e-06	0.0	0.01	1.31e-03	2.30	0.3	0.0	0.0
177	89.559	0.011	0.116	7.75e-05	9.30e-06	0.26	3.07e-02	0.55	6.65e-02	0.0	0.0
178	91.748	0.011	0.116	4.30e-03	5.16e-04	0.07	7.80e-03	0.02	2.68e-03	0.0	0.0
179	92.158	0.011	0.116	0.05	5.75e-03	4.11e-03	4.92e-04	0.01	1.67e-03	0.0	0.0
180	94.211	0.011	0.116	9.04e-04	1.08e-04	8.20e-04	9.84e-05	0.51	6.11e-02	0.0	0.0
181	96.032	0.010	0.116	2.64e-04	3.17e-05	0.33	3.93e-02	0.17	2.00e-02	0.0	0.0
182	98.429	0.010	0.116	0.02	1.94e-03	6.88e-03	8.24e-04	0.23	2.73e-02	0.0	0.0
183	99.738	0.010	0.116	7.15e-04	8.57e-05	0.03	3.21e-03	1.65	0.2	0.0	0.0
184	100.763	0.010	0.116	1.82e-03	2.18e-04	4.55e-03	5.45e-04	0.67	8.02e-02	0.0	0.0
185	105.099	0.010	0.116	3.76e-04	4.51e-05	1.23e-03	1.48e-04	2.21	0.3	0.0	0.0
186	106.493	0.009	0.116	3.48e-04	4.17e-05	6.15e-04	7.38e-05	5.03	0.6	0.0	0.0
187	107.986	0.009	0.116	4.05e-03	4.85e-04	5.34e-04	6.40e-05	0.87	0.1	0.0	0.0
188	109.584	0.009	0.116	2.34e-05	2.81e-06	0.07	8.39e-03	0.04	4.86e-03	0.0	0.0
189	113.424	0.009	0.116	4.10e-04	4.92e-05	2.59e-04	3.11e-05	0.76	9.08e-02	0.0	0.0
190	116.999	0.009	0.116	1.58e-06	0.0	0.01	1.54e-03	0.04	4.47e-03	0.0	0.0
191	124.081	0.008	0.116	0.04	4.78e-03	3.67e-04	4.40e-05	0.02	2.37e-03	0.0	0.0
192	126.596	0.008	0.116	0.50	5.96e-02	0.06	6.77e-03	1.87e-05	2.24e-06	0.0	0.0
193	132.332	0.008	0.116	8.72e-03	1.05e-03	8.91e-03	1.07e-03	0.42	5.09e-02	0.0	0.0
194	135.337	0.007	0.116	8.78e-03	1.05e-03	6.55e-03	7.85e-04	3.39	0.4	0.0	0.0
195	139.073	0.007	0.116	0.29	3.44e-02	0.25	3.03e-02	3.18e-03	3.82e-04	0.0	0.0
196	146.215	0.007	0.116	4.37e-03	5.24e-04	9.01e-03	1.08e-03	16.85	2.0	0.0	0.0
197	148.882	0.007	0.116	0.09	1.11e-02	0.10	1.15e-02	0.07	8.21e-03	0.0	0.0
198	150.626	0.007	0.116	0.14	1.67e-02	0.02	2.44e-03	0.58	6.99e-02	0.0	0.0
199	154.420	0.006	0.116	0.13	1.60e-02	0.02	1.99e-03	6.71	0.8	0.0	0.0
200	155.716	0.006	0.116	0.17	2.08e-02	0.08	9.19e-03	3.32	0.4	0.0	0.0
201	170.444	0.006	0.116	0.23	2.79e-02	0.08	9.41e-03	0.46	5.56e-02	0.0	0.0
202	173.897	0.006	0.116	5.11e-05	6.12e-06	9.41e-06	1.13e-06	10.96	1.3	0.0	0.0
203	176.806	0.006	0.116	0.03	3.68e-03	0.10	1.22e-02	7.84e-06	0.0	0.0	0.0
204	186.898	0.005	0.116	0.09	1.08e-02	0.03	3.81e-03	0.40	4.74e-02	0.0	0.0
205	192.469	0.005	0.116	6.00e-04	7.19e-05	0.03	3.02e-03	1.26	0.2	0.0	0.0
206	194.554	0.005	0.116	0.05	5.43e-03	0.04	4.24e-03	0.61	7.27e-02	0.0	0.0
207	213.039	0.005	0.116	0.05	6.01e-03	0.01	1.39e-03	0.05	6.27e-03	0.0	0.0
208	219.341	0.005	0.116	4.66e-03	5.59e-04	0.07	8.54e-03	1.71e-03	2.05e-04	0.0	0.0
209	220.784	0.005	0.116	5.15e-04	6.17e-05	6.71e-04	8.05e-05	4.45	0.5	0.0	0.0
210	260.551	0.004	0.116	0.05	6.56e-03	0.05	5.50e-03	0.03	3.48e-03	0.0	0.0
211	263.897	0.004	0.116	3.73e-03	4.47e-04	0.05	5.70e-03	0.28	3.38e-02	0.0	0.0
212	265.546	0.004	0.116	1.32e-03	1.59e-04	3.81e-03	4.56e-04	2.35	0.3	0.0	0.0
213	290.562	0.003	0.116	3.02e-03	3.62e-04	0.07	8.15e-03	1.11e-03	1.33e-04	0.0	0.0
214	304.050	0.003	0.116	0.13	1.61e-02	8.48e-04	1.02e-04	3.05e-03	3.66e-04	0.0	0.0
215	334.211	0.003	0.116	2.17e-03	2.60e-04	1.87e-06	0.0	0.79	9.51e-02	0.0	0.0
216	358.137	0.003	0.116	0.01	1.36e-03	1.92e-04	2.30e-05	0.08	1.01e-02	0.0	0.0
217	385.392	0.003	0.116	2.38e-04	2.86e-05	2.11e-03	2.53e-04	1.34e-03	1.60e-04	0.0	0.0
218	414.062	0.002	0.116	1.03e-04	1.23e-05	1.69e-04	2.02e-05	0.89	0.1	0.0	0.0
219	547.766	0.002	0.116	8.11e-04	9.72e-05	7.17e-04	8.60e-05	0.27	3.26e-02	0.0	0.0
220	559.019	0.002	0.116	3.92e-03	4.71e-04	6.96e-04	8.35e-05	0.15	1.82e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
221	605.067	0.002	0.116	1.46e-04	1.75e-05	3.59e-05	4.30e-06	0.55	6.65e-02	0.0	0.0
222	821.320	0.001	0.116	2.04e-04	2.45e-05	5.40e-04	6.48e-05	3.15e-03	3.78e-04	0.0	0.0
223	915.271	0.001	0.116	5.66e-04	6.79e-05	2.85e-05	3.42e-06	0.08	9.13e-03	0.0	0.0
224	957.242	0.001	0.116	6.01e-05	7.21e-06	9.31e-06	1.12e-06	0.28	3.37e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
14	Edk	CDC=Ed (dinamico SLO) alfa=0.0 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.343 sec.
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	0.0	0.40	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	0.0	0.54	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	0.0	0.54	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	0.0	0.30	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	0.0	0.54	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	0.0	0.38	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	0.0	0.08	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.861	1.161	0.089	9.51	1.1	4.90e-04	5.87e-05	0.0	0.0	0.0	0.0
2	0.864	1.157	0.089	0.03	3.55e-03	0.0	0.0	5.36e-06	0.0	0.0	0.0
3	1.027	0.974	0.097	1.98e-03	2.37e-04	11.57	1.4	1.17e-05	1.40e-06	0.0	0.0
4	1.032	0.969	0.097	1.41e-04	1.69e-05	0.03	3.16e-03	1.34e-05	1.60e-06	0.0	0.0
5	1.325	0.755	0.116	4.07e-03	4.88e-04	11.19	1.3	1.48e-06	0.0	0.0	0.0
6	1.327	0.754	0.116	1.20e-04	1.43e-05	0.03	3.76e-03	8.08e-06	0.0	0.0	0.0
7	1.418	0.705	0.134	9.81	1.2	8.37e-03	1.00e-03	0.0	0.0	0.0	0.0
8	1.420	0.704	0.135	0.03	3.77e-03	6.58e-06	0.0	6.19e-06	0.0	0.0	0.0
9	1.512	0.662	0.156	2.14e-06	0.0	3.66	0.4	0.0	0.0	0.0	0.0
10	1.589	0.629	0.182	6.06	0.7	2.21e-06	0.0	1.43e-05	1.71e-06	0.0	0.0
11	1.597	0.626	0.185	0.01	1.47e-03	1.40e-04	1.68e-05	1.37e-05	1.64e-06	0.0	0.0
12	2.221	0.450	0.263	1.26	0.2	12.60	1.5	2.46e-04	2.94e-05	0.0	0.0
13	2.359	0.424	0.261	183.63	22.0	340.08	40.8	0.04	4.85e-03	0.0	0.0
14	2.912	0.343	0.303	267.98	32.1	179.85	21.6	0.02	2.09e-03	0.0	0.0
15	3.536	0.283	0.353	13.68	1.6	0.49	5.87e-02	2.73e-03	3.28e-04	0.0	0.0
16	3.577	0.280	0.350	66.91	8.0	19.43	2.3	1.40e-04	1.68e-05	0.0	0.0
17	4.084	0.245	0.353	0.52	6.28e-02	0.03	4.19e-03	0.03	3.08e-03	0.0	0.0
18	4.258	0.235	0.331	3.42e-03	4.10e-04	18.09	2.2	2.19e-04	2.63e-05	0.0	0.0
19	4.274	0.234	0.328	0.04	4.99e-03	2.29	0.3	1.16e-03	1.39e-04	0.0	0.0
20	4.379	0.228	0.310	0.15	1.74e-02	45.56	5.5	0.12	1.40e-02	0.0	0.0
21	5.176	0.193	0.249	24.26	2.9	0.03	3.35e-03	0.23	2.73e-02	0.0	0.0
22	5.588	0.179	0.239	16.37	2.0	1.21e-04	1.45e-05	1.80e-05	2.15e-06	0.0	0.0
23	5.839	0.171	0.234	4.10e-03	4.92e-04	0.16	1.96e-02	2.29e-03	2.74e-04	0.0	0.0
24	5.946	0.168	0.232	3.71	0.4	10.33	1.2	3.98e-03	4.77e-04	0.0	0.0
25	6.399	0.156	0.225	2.28	0.3	1.39	0.2	4.49e-03	5.39e-04	0.0	0.0
26	6.827	0.146	0.218	1.00	0.1	0.06	6.64e-03	1.48e-03	1.77e-04	0.0	0.0
27	6.990	0.143	0.216	28.70	3.4	1.01	0.1	0.04	4.65e-03	0.0	0.0
28	7.200	0.139	0.213	0.14	1.63e-02	4.69	0.6	1.40e-03	1.68e-04	0.0	0.0
29	7.388	0.135	0.210	42.71	5.1	0.76	9.11e-02	0.13	1.61e-02	0.0	0.0
30	7.837	0.128	0.203	0.14	1.68e-02	24.16	2.9	0.02	2.50e-03	0.0	0.0
31	8.065	0.124	0.200	1.63	0.2	2.84	0.3	0.08	9.09e-03	0.0	0.0
32	8.349	0.120	0.197	0.35	4.19e-02	0.84	0.1	1.03	0.1	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
33	8.412	0.119	0.198	15.49	1.9	9.75	1.2	0.08	1.02e-02	0.0	0.0
34	8.806	0.114	0.207	2.94	0.4	25.01	3.0	0.10	1.20e-02	0.0	0.0
35	8.989	0.111	0.211	3.98	0.5	0.04	5.39e-03	0.11	1.32e-02	0.0	0.0
36	9.404	0.106	0.219	1.08	0.1	2.05	0.2	7.44e-03	8.92e-04	0.0	0.0
37	9.856	0.101	0.227	7.00	0.8	0.25	2.96e-02	0.93	0.1	0.0	0.0
38	10.044	0.100	0.228	4.92	0.6	0.02	1.81e-03	2.18	0.3	0.0	0.0
39	10.181	0.098	0.226	6.11	0.7	0.19	2.27e-02	1.68	0.2	0.0	0.0
40	10.468	0.096	0.220	6.02e-04	7.21e-05	0.58	6.93e-02	7.19e-03	8.62e-04	0.0	0.0
41	10.818	0.092	0.215	2.06	0.2	2.13	0.3	0.02	2.01e-03	0.0	0.0
42	11.615	0.086	0.203	2.55e-04	3.06e-05	5.51	0.7	8.46e-04	1.01e-04	0.0	0.0
43	12.166	0.082	0.195	0.04	4.72e-03	4.15	0.5	4.29e-03	5.14e-04	0.0	0.0
44	12.425	0.080	0.192	15.70	1.9	6.61	0.8	9.23	1.1	0.0	0.0
45	12.492	0.080	0.191	6.03	0.7	2.62	0.3	26.50	3.2	0.0	0.0
46	13.128	0.076	0.183	3.92	0.5	0.44	5.30e-02	2.69e-03	3.23e-04	0.0	0.0
47	13.415	0.075	0.179	0.39	4.68e-02	1.39	0.2	0.27	3.28e-02	0.0	0.0
48	13.599	0.074	0.177	0.72	8.66e-02	7.45	0.9	3.19e-04	3.83e-05	0.0	0.0
49	13.880	0.072	0.173	0.40	4.84e-02	2.00	0.2	0.11	1.32e-02	0.0	0.0
50	14.317	0.070	0.168	0.02	2.60e-03	0.15	1.76e-02	0.54	6.51e-02	0.0	0.0
51	14.515	0.069	0.166	4.71e-03	5.64e-04	2.89	0.3	0.14	1.69e-02	0.0	0.0
52	14.715	0.068	0.164	4.81e-03	5.77e-04	0.35	4.24e-02	5.33	0.6	0.0	0.0
53	14.906	0.067	0.162	0.40	4.77e-02	0.08	9.85e-03	0.02	2.78e-03	0.0	0.0
54	15.141	0.066	0.160	0.36	4.30e-02	0.03	3.11e-03	0.15	1.86e-02	0.0	0.0
55	15.302	0.065	0.158	0.03	3.51e-03	0.61	7.35e-02	1.76	0.2	0.0	0.0
56	15.349	0.065	0.157	0.12	1.38e-02	0.01	1.26e-03	6.36	0.8	0.0	0.0
57	15.401	0.065	0.157	0.07	8.44e-03	0.48	5.79e-02	0.88	0.1	0.0	0.0
58	15.541	0.064	0.156	0.98	0.1	5.60	0.7	0.01	1.29e-03	0.0	0.0
59	15.635	0.064	0.155	3.14	0.4	1.67	0.2	0.01	1.26e-03	0.0	0.0
60	15.829	0.063	0.153	4.15	0.5	2.01	0.2	2.10e-03	2.52e-04	0.0	0.0
61	16.091	0.062	0.151	0.92	0.1	6.56e-04	7.86e-05	2.48e-04	2.97e-05	0.0	0.0
62	16.154	0.062	0.150	0.38	4.60e-02	5.59	0.7	0.08	9.29e-03	0.0	0.0
63	16.336	0.061	0.149	1.14	0.1	0.31	3.74e-02	0.01	1.29e-03	0.0	0.0
64	16.593	0.060	0.146	0.08	9.82e-03	0.56	6.71e-02	10.50	1.3	0.0	0.0
65	16.742	0.060	0.145	2.71	0.3	10.43	1.3	0.80	9.60e-02	0.0	0.0
66	16.774	0.060	0.145	6.19	0.7	0.42	5.08e-02	0.02	2.13e-03	0.0	0.0
67	17.498	0.057	0.142	0.89	0.1	1.11	0.1	0.19	2.25e-02	0.0	0.0
68	17.726	0.056	0.141	1.46	0.2	0.09	1.04e-02	1.26	0.2	0.0	0.0
69	17.963	0.056	0.140	0.27	3.30e-02	2.90	0.3	2.93e-05	3.51e-06	0.0	0.0
70	18.272	0.055	0.139	0.28	3.30e-02	0.03	3.28e-03	0.06	6.97e-03	0.0	0.0
71	18.423	0.054	0.139	6.45	0.8	0.27	3.20e-02	1.60	0.2	0.0	0.0
72	18.554	0.054	0.138	2.64	0.3	0.03	3.72e-03	0.06	7.31e-03	0.0	0.0
73	18.887	0.053	0.137	1.05	0.1	5.14	0.6	5.45	0.7	0.0	0.0
74	18.931	0.053	0.137	1.16	0.1	0.25	3.03e-02	2.61	0.3	0.0	0.0
75	18.973	0.053	0.137	2.49	0.3	0.79	9.47e-02	0.69	8.22e-02	0.0	0.0
76	19.748	0.051	0.134	1.03	0.1	1.05	0.1	0.08	9.20e-03	0.0	0.0
77	20.317	0.049	0.132	0.14	1.68e-02	0.07	8.50e-03	3.36	0.4	0.0	0.0
78	20.521	0.049	0.132	0.26	3.12e-02	0.09	1.11e-02	17.79	2.1	0.0	0.0
79	21.792	0.046	0.128	0.26	3.16e-02	1.49	0.2	1.00	0.1	0.0	0.0
80	22.111	0.045	0.127	0.27	3.26e-02	0.44	5.22e-02	3.37	0.4	0.0	0.0
81	22.382	0.045	0.126	2.31e-03	2.77e-04	0.29	3.44e-02	20.14	2.4	0.0	0.0
82	23.168	0.043	0.125	2.23e-03	2.67e-04	0.11	1.30e-02	10.93	1.3	0.0	0.0
83	23.859	0.042	0.123	0.53	6.37e-02	8.81e-03	1.06e-03	0.53	6.36e-02	0.0	0.0
84	23.937	0.042	0.123	1.22	0.1	7.31e-03	8.77e-04	1.46e-03	1.75e-04	0.0	0.0
85	24.883	0.040	0.121	0.05	6.05e-03	1.94	0.2	0.02	1.84e-03	0.0	0.0
86	25.292	0.040	0.120	0.06	7.65e-03	1.19e-03	1.43e-04	0.01	1.31e-03	0.0	0.0
87	25.399	0.039	0.120	8.67e-04	1.04e-04	0.17	2.00e-02	0.22	2.61e-02	0.0	0.0
88	25.611	0.039	0.120	0.47	5.63e-02	1.10e-03	1.32e-04	0.01	1.52e-03	0.0	0.0
89	25.813	0.039	0.120	0.05	6.48e-03	0.04	4.61e-03	3.28	0.4	0.0	0.0
90	26.298	0.038	0.120	5.01e-03	6.00e-04	4.49e-03	5.39e-04	0.02	1.99e-03	0.0	0.0
91	26.377	0.038	0.120	0.02	2.98e-03	0.02	1.92e-03	1.22	0.1	0.0	0.0
92	26.904	0.037	0.120	1.43	0.2	1.91e-03	2.29e-04	0.12	1.39e-02	0.0	0.0
93	27.250	0.037	0.120	2.30	0.3	0.03	3.91e-03	0.04	4.68e-03	0.0	0.0
94	28.108	0.036	0.120	4.75e-03	5.69e-04	2.21e-04	2.65e-05	12.88	1.5	0.0	0.0
95	28.247	0.035	0.120	5.72e-03	6.86e-04	8.85e-03	1.06e-03	49.86	6.0	0.0	0.0
96	28.764	0.035	0.119	3.20e-03	3.84e-04	0.02	2.09e-03	0.23	2.76e-02	0.0	0.0
97	29.052	0.034	0.119	0.91	0.1	8.58e-03	1.03e-03	0.03	3.07e-03	0.0	0.0
98	29.480	0.034	0.119	5.71	0.7	0.56	6.72e-02	0.07	8.05e-03	0.0	0.0
99	30.026	0.033	0.119	1.22	0.1	0.02	2.69e-03	0.05	6.48e-03	0.0	0.0
100	30.480	0.033	0.119	1.56	0.2	0.68	8.13e-02	0.03	3.26e-03	0.0	0.0
101	31.261	0.032	0.119	0.22	2.69e-02	0.39	4.65e-02	0.01	1.55e-03	0.0	0.0
102	31.768	0.031	0.119	0.01	1.24e-03	3.50e-05	4.19e-06	4.71	0.6	0.0	0.0
103	34.495	0.029	0.118	8.73e-05	1.05e-05	0.01	1.34e-03	10.91	1.3	0.0	0.0
104	36.131	0.028	0.118	4.21	0.5	0.03	3.46e-03	2.39	0.3	0.0	0.0
105	36.252	0.028	0.118	0.06	7.04e-03	9.11e-05	1.09e-05	4.79	0.6	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
106	36.325	0.028	0.118	0.03	3.25e-03	0.14	1.66e-02	0.43	5.13e-02	0.0	0.0
107	36.582	0.027	0.118	0.26	3.16e-02	2.24e-05	2.69e-06	0.06	6.81e-03	0.0	0.0
108	36.960	0.027	0.118	1.52e-03	1.82e-04	1.76e-04	2.10e-05	26.20	3.1	0.0	0.0
109	37.283	0.027	0.118	0.01	1.44e-03	0.44	5.22e-02	0.09	1.13e-02	0.0	0.0
110	37.373	0.027	0.118	4.47e-05	5.36e-06	0.01	1.59e-03	3.18e-03	3.81e-04	0.0	0.0
111	37.505	0.027	0.118	0.03	3.90e-03	7.49e-03	8.98e-04	0.01	1.28e-03	0.0	0.0
112	37.765	0.026	0.118	0.16	1.96e-02	7.10e-03	8.51e-04	0.01	1.67e-03	0.0	0.0
113	40.397	0.025	0.117	0.02	1.93e-03	1.50e-06	0.0	0.02	2.97e-03	0.0	0.0
114	41.206	0.024	0.117	4.58e-05	5.49e-06	5.26e-04	6.31e-05	59.81	7.2	0.0	0.0
115	41.390	0.024	0.117	3.12e-06	0.0	5.89e-03	7.07e-04	0.02	2.66e-03	0.0	0.0
116	41.710	0.024	0.117	0.02	2.11e-03	9.08e-03	1.09e-03	1.02	0.1	0.0	0.0
117	41.755	0.024	0.117	0.01	1.47e-03	0.03	3.45e-03	16.91	2.0	0.0	0.0
118	41.983	0.024	0.117	6.70e-03	8.04e-04	3.61e-03	4.33e-04	4.24e-03	5.08e-04	0.0	0.0
119	42.377	0.024	0.117	3.70e-03	4.44e-04	9.84e-03	1.18e-03	0.03	3.16e-03	0.0	0.0
120	43.209	0.023	0.117	0.25	2.95e-02	1.83	0.2	0.03	3.06e-03	0.0	0.0
121	45.601	0.022	0.117	8.33e-06	0.0	6.25e-06	0.0	0.45	5.37e-02	0.0	0.0
122	46.203	0.022	0.117	9.45	1.1	5.05e-05	6.05e-06	6.16e-03	7.38e-04	0.0	0.0
123	46.318	0.022	0.117	3.66e-03	4.38e-04	0.02	2.90e-03	39.48	4.7	0.0	0.0
124	46.459	0.022	0.117	1.55e-03	1.86e-04	0.04	4.32e-03	6.44	0.8	0.0	0.0
125	46.615	0.021	0.117	0.10	1.22e-02	2.07	0.2	0.02	1.95e-03	0.0	0.0
126	46.898	0.021	0.116	1.41e-03	1.69e-04	0.05	5.99e-03	11.63	1.4	0.0	0.0
127	47.384	0.021	0.116	3.50e-05	4.20e-06	0.03	3.78e-03	13.51	1.6	0.0	0.0
128	48.627	0.021	0.116	1.75e-06	0.0	8.08	1.0	2.24e-03	2.68e-04	0.0	0.0
129	49.254	0.020	0.116	1.74e-04	2.09e-05	0.01	1.30e-03	99.91	12.0	0.0	0.0
130	49.698	0.020	0.116	6.63e-04	7.95e-05	4.44e-03	5.32e-04	3.20	0.4	0.0	0.0
131	50.832	0.020	0.116	0.01	1.23e-03	0.12	1.40e-02	28.20	3.4	0.0	0.0
132	52.821	0.019	0.116	1.07e-06	0.0	3.61e-06	0.0	37.18	4.5	0.0	0.0
133	53.441	0.019	0.116	2.05e-03	2.46e-04	0.03	3.06e-03	1.42	0.2	0.0	0.0
134	53.535	0.019	0.116	8.72e-04	1.05e-04	0.0	0.0	16.14	1.9	0.0	0.0
135	54.065	0.018	0.116	0.0	0.0	3.54e-03	4.24e-04	16.74	2.0	0.0	0.0
136	54.247	0.018	0.116	0.0	0.0	0.07	7.99e-03	3.73e-06	0.0	0.0	0.0
137	54.537	0.018	0.116	4.33e-05	5.19e-06	4.50e-05	5.39e-06	0.01	1.73e-03	0.0	0.0
138	54.633	0.018	0.116	0.08	9.49e-03	1.70e-06	0.0	2.03e-05	2.43e-06	0.0	0.0
139	54.975	0.018	0.116	5.20e-03	6.23e-04	0.03	3.12e-03	28.58	3.4	0.0	0.0
140	55.358	0.018	0.116	3.83e-05	4.59e-06	1.32e-04	1.58e-05	2.91e-03	3.49e-04	0.0	0.0
141	56.771	0.018	0.116	7.44	0.9	1.44e-05	1.73e-06	5.61	0.7	0.0	0.0
142	56.847	0.018	0.116	0.07	8.65e-03	1.92e-03	2.30e-04	0.04	5.04e-03	0.0	0.0
143	58.241	0.017	0.116	0.0	0.0	7.22	0.9	5.16	0.6	0.0	0.0
144	58.986	0.017	0.116	0.02	1.95e-03	1.90e-04	2.27e-05	4.31	0.5	0.0	0.0
145	59.089	0.017	0.116	0.09	1.13e-02	2.21e-03	2.65e-04	30.35	3.6	0.0	0.0
146	59.446	0.017	0.116	6.32e-04	7.58e-05	7.70e-04	9.23e-05	0.03	3.51e-03	0.0	0.0
147	60.688	0.016	0.116	1.37e-04	1.64e-05	1.34e-05	1.60e-06	11.20	1.3	0.0	0.0
148	60.699	0.016	0.116	1.61e-06	0.0	3.44e-03	4.13e-04	13.73	1.6	0.0	0.0
149	61.146	0.016	0.116	6.08e-03	7.29e-04	9.67e-05	1.16e-05	5.70e-03	6.84e-04	0.0	0.0
150	61.315	0.016	0.116	0.28	3.37e-02	0.0	0.0	9.10e-04	1.09e-04	0.0	0.0
151	61.696	0.016	0.116	4.44e-04	5.32e-05	2.16e-06	0.0	17.34	2.1	0.0	0.0
152	61.734	0.016	0.116	1.89e-06	0.0	2.36e-04	2.83e-05	10.12	1.2	0.0	0.0
153	63.119	0.016	0.116	9.15e-06	1.10e-06	0.23	2.81e-02	0.02	2.94e-03	0.0	0.0
154	63.806	0.016	0.116	1.24	0.1	0.02	2.85e-03	3.48	0.4	0.0	0.0
155	65.100	0.015	0.116	0.47	5.63e-02	0.05	5.72e-03	1.59	0.2	0.0	0.0
156	67.164	0.015	0.116	6.25e-04	7.49e-05	6.36e-04	7.63e-05	0.05	6.30e-03	0.0	0.0
157	69.045	0.014	0.116	1.33e-04	1.60e-05	5.93e-04	7.11e-05	0.16	1.93e-02	0.0	0.0
158	70.227	0.014	0.116	1.45e-04	1.73e-05	0.02	1.94e-03	1.46e-03	1.74e-04	0.0	0.0
159	70.283	0.014	0.116	4.84e-05	5.80e-06	9.90e-04	1.19e-04	0.03	3.06e-03	0.0	0.0
160	70.439	0.014	0.116	2.43e-03	2.91e-04	2.15e-03	2.58e-04	0.30	3.59e-02	0.0	0.0
161	70.924	0.014	0.116	7.20e-04	8.64e-05	0.02	2.88e-03	0.07	8.08e-03	0.0	0.0
162	73.302	0.014	0.116	1.53e-03	1.84e-04	4.76e-04	5.71e-05	0.31	3.69e-02	0.0	0.0
163	75.105	0.013	0.116	0.18	2.17e-02	1.06e-03	1.27e-04	0.04	4.30e-03	0.0	0.0
164	75.535	0.013	0.116	2.22e-03	2.66e-04	0.09	1.08e-02	1.13e-03	1.35e-04	0.0	0.0
165	76.168	0.013	0.116	0.05	5.61e-03	0.0	0.0	0.21	2.48e-02	0.0	0.0
166	77.266	0.013	0.116	0.01	1.38e-03	4.02e-05	4.82e-06	0.61	7.33e-02	0.0	0.0
167	78.566	0.013	0.116	1.90e-03	2.28e-04	0.16	1.86e-02	0.02	2.20e-03	0.0	0.0
168	78.886	0.013	0.116	4.24e-03	5.08e-04	0.04	5.32e-03	0.06	7.62e-03	0.0	0.0
169	79.895	0.013	0.116	2.85e-04	3.42e-05	7.60e-04	9.11e-05	15.54	1.9	0.0	0.0
170	81.514	0.012	0.116	0.02	2.67e-03	2.03e-03	2.44e-04	0.63	7.58e-02	0.0	0.0
171	82.381	0.012	0.116	0.04	5.32e-03	7.09e-03	8.50e-04	8.60e-03	1.03e-03	0.0	0.0
172	83.160	0.012	0.116	0.01	1.20e-03	0.26	3.07e-02	0.67	8.03e-02	0.0	0.0
173	83.572	0.012	0.116	1.72e-04	2.06e-05	0.03	3.64e-03	4.13	0.5	0.0	0.0
174	85.679	0.012	0.116	6.99e-04	8.38e-05	0.02	2.81e-03	0.87	0.1	0.0	0.0
175	86.550	0.012	0.116	2.64e-03	3.16e-04	6.15e-04	7.37e-05	0.01	1.42e-03	0.0	0.0
176	87.925	0.011	0.116	4.50e-04	5.39e-05	2.43e-04	2.92e-05	0.77	9.21e-02	0.0	0.0
177	89.837	0.011	0.116	1.28e-04	1.54e-05	0.29	3.49e-02	0.80	9.62e-02	0.0	0.0
178	91.817	0.011	0.116	4.00e-06	0.0	0.02	2.54e-03	0.43	5.12e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
179	92.504	0.011	0.116	0.05	6.37e-03	2.27e-05	2.72e-06	4.98e-04	5.97e-05	0.0	0.0
180	94.908	0.011	0.116	2.53e-04	3.03e-05	0.06	7.59e-03	0.32	3.81e-02	0.0	0.0
181	95.969	0.010	0.116	2.44e-03	2.92e-04	0.17	2.02e-02	0.22	2.60e-02	0.0	0.0
182	96.495	0.010	0.116	3.83e-03	4.59e-04	0.08	1.01e-02	0.27	3.26e-02	0.0	0.0
183	98.897	0.010	0.116	6.78e-03	8.13e-04	0.06	6.72e-03	0.86	0.1	0.0	0.0
184	101.746	0.010	0.116	7.19e-03	8.62e-04	4.06e-04	4.87e-05	0.02	2.54e-03	0.0	0.0
185	102.382	0.010	0.116	1.17e-03	1.40e-04	2.74e-03	3.29e-04	3.52	0.4	0.0	0.0
186	106.161	0.009	0.116	2.05e-05	2.46e-06	7.43e-04	8.91e-05	6.84	0.8	0.0	0.0
187	108.325	0.009	0.116	1.08e-03	1.29e-04	0.02	2.40e-03	0.20	2.45e-02	0.0	0.0
188	109.147	0.009	0.116	5.95e-03	7.13e-04	0.01	1.62e-03	0.02	2.86e-03	0.0	0.0
189	110.192	0.009	0.116	3.00e-04	3.59e-05	0.04	4.65e-03	0.02	2.12e-03	0.0	0.0
190	116.664	0.009	0.116	1.43e-05	1.72e-06	0.01	1.51e-03	0.03	4.09e-03	0.0	0.0
191	131.822	0.008	0.116	0.05	6.46e-03	0.14	1.67e-02	0.09	1.07e-02	0.0	0.0
192	133.378	0.007	0.116	0.02	1.90e-03	5.72e-03	6.86e-04	2.43	0.3	0.0	0.0
193	134.034	0.007	0.116	0.08	9.20e-03	6.24e-03	7.48e-04	0.54	6.43e-02	0.0	0.0
194	138.009	0.007	0.116	0.87	0.1	0.04	4.48e-03	2.63e-04	3.15e-05	0.0	0.0
195	142.511	0.007	0.116	1.64e-03	1.97e-04	0.11	1.32e-02	0.32	3.80e-02	0.0	0.0
196	145.363	0.007	0.116	0.07	8.19e-03	8.20e-04	9.83e-05	13.09	1.6	0.0	0.0
197	147.820	0.007	0.116	0.29	3.46e-02	5.21e-04	6.25e-05	2.85	0.3	0.0	0.0
198	148.815	0.007	0.116	8.07e-04	9.67e-05	0.21	2.49e-02	3.65	0.4	0.0	0.0
199	155.182	0.006	0.116	7.42e-03	8.89e-04	7.08e-03	8.49e-04	6.72	0.8	0.0	0.0
200	163.922	0.006	0.116	0.26	3.10e-02	1.96e-04	2.35e-05	1.86	0.2	0.0	0.0
201	169.436	0.006	0.116	0.04	5.39e-03	0.14	1.64e-02	0.03	4.18e-03	0.0	0.0
202	171.814	0.006	0.116	6.50e-05	7.79e-06	1.80e-03	2.16e-04	10.66	1.3	0.0	0.0
203	176.815	0.006	0.116	0.12	1.39e-02	0.04	4.71e-03	0.17	2.05e-02	0.0	0.0
204	186.020	0.005	0.116	0.01	1.69e-03	0.09	1.12e-02	0.08	1.00e-02	0.0	0.0
205	190.897	0.005	0.116	0.02	2.55e-03	0.01	1.49e-03	1.86	0.2	0.0	0.0
206	196.704	0.005	0.116	0.02	2.26e-03	6.37e-03	7.64e-04	1.05	0.1	0.0	0.0
207	215.931	0.005	0.116	2.54e-03	3.05e-04	0.09	1.03e-02	0.02	2.32e-03	0.0	0.0
208	218.856	0.005	0.116	0.02	1.91e-03	1.39e-03	1.67e-04	1.60	0.2	0.0	0.0
209	222.904	0.004	0.116	4.66e-03	5.59e-04	1.08e-03	1.30e-04	2.66	0.3	0.0	0.0
210	258.051	0.004	0.116	1.54e-03	1.85e-04	0.08	9.55e-03	5.33e-03	6.39e-04	0.0	0.0
211	265.171	0.004	0.116	8.27e-04	9.92e-05	1.18e-04	1.41e-05	2.64	0.3	0.0	0.0
212	268.414	0.004	0.116	0.16	1.95e-02	0.02	1.92e-03	0.03	3.87e-03	0.0	0.0
213	287.969	0.003	0.116	6.84e-04	8.20e-05	0.07	8.44e-03	0.01	1.61e-03	0.0	0.0
214	297.834	0.003	0.116	0.05	6.39e-03	4.02e-03	4.82e-04	0.03	3.36e-03	0.0	0.0
215	336.937	0.003	0.116	3.17e-03	3.80e-04	6.60e-05	7.91e-06	0.79	9.42e-02	0.0	0.0
216	358.220	0.003	0.116	8.48e-03	1.02e-03	3.68e-04	4.42e-05	0.07	8.62e-03	0.0	0.0
217	365.264	0.003	0.116	8.44e-05	1.01e-05	2.79e-03	3.34e-04	8.20e-03	9.83e-04	0.0	0.0
218	414.199	0.002	0.116	2.52e-04	3.03e-05	1.27e-04	1.52e-05	0.86	0.1	0.0	0.0
219	532.783	0.002	0.116	7.71e-06	0.0	1.37e-03	1.64e-04	0.07	8.86e-03	0.0	0.0
220	556.697	0.002	0.116	4.42e-03	5.29e-04	1.09e-04	1.31e-05	0.46	5.49e-02	0.0	0.0
221	617.044	0.002	0.116	4.15e-04	4.98e-05	7.49e-05	8.98e-06	0.46	5.53e-02	0.0	0.0
222	806.750	0.001	0.116	1.47e-04	1.77e-05	6.21e-04	7.44e-05	3.27e-05	3.92e-06	0.0	0.0
223	934.000	0.001	0.116	5.91e-04	7.08e-05	1.10e-05	1.32e-06	0.04	4.85e-03	0.0	0.0
224	954.690	0.001	0.116	2.43e-05	2.91e-06	9.66e-06	1.16e-06	0.31	3.73e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
15	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.425 sec.
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	0.40	0.0	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	0.54	0.0	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	0.54	0.0	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	0.30	0.0	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	0.54	0.0	5.54	3.54	1.062	0.037	0.022

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
2.46	67.69	2.62	6.18	0.38	0.0	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	0.08	0.0	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.843	1.187	0.088	9.92	1.2	2.64e-04	3.17e-05	0.0	0.0	0.0	0.0
2	0.846	1.182	0.089	0.03	3.69e-03	0.0	0.0	5.14e-06	0.0	0.0	0.0
3	1.006	0.994	0.096	1.86e-03	2.23e-04	12.09	1.4	1.13e-05	1.35e-06	0.0	0.0
4	1.011	0.989	0.096	1.08e-04	1.30e-05	0.03	3.25e-03	1.28e-05	1.54e-06	0.0	0.0
5	1.248	0.801	0.109	2.44e-03	2.92e-04	12.29	1.5	1.54e-06	0.0	0.0	0.0
6	1.249	0.800	0.109	7.52e-05	9.02e-06	0.04	4.23e-03	7.08e-06	0.0	0.0	0.0
7	1.325	0.755	0.116	10.93	1.3	4.89e-03	5.86e-04	0.0	0.0	0.0	0.0
8	1.327	0.754	0.116	0.04	4.29e-03	2.98e-06	0.0	5.34e-06	0.0	0.0	0.0
9	1.443	0.693	0.139	5.76e-06	0.0	4.03	0.5	0.0	0.0	0.0	0.0
10	1.510	0.662	0.156	6.74	0.8	2.40e-06	0.0	1.32e-05	1.58e-06	0.0	0.0
11	1.517	0.659	0.158	0.01	1.60e-03	7.62e-05	9.13e-06	1.24e-05	1.49e-06	0.0	0.0
12	2.119	0.472	0.268	0.36	4.34e-02	9.19	1.1	6.64e-05	7.97e-06	0.0	0.0
13	2.354	0.425	0.261	175.86	21.1	356.13	42.7	0.04	4.54e-03	0.0	0.0
14	2.960	0.338	0.314	276.91	33.2	174.79	21.0	0.02	1.81e-03	0.0	0.0
15	3.405	0.294	0.364	79.22	9.5	17.22	2.1	5.22e-04	6.25e-05	0.0	0.0
16	3.539	0.283	0.353	2.77	0.3	0.25	3.01e-02	6.07e-03	7.28e-04	0.0	0.0
17	3.963	0.252	0.363	6.55e-03	7.85e-04	22.82	2.7	5.70e-04	6.84e-05	0.0	0.0
18	3.989	0.251	0.361	5.39e-03	6.46e-04	0.11	1.27e-02	0.02	1.81e-03	0.0	0.0
19	4.200	0.238	0.341	0.07	8.02e-03	1.45	0.2	3.04e-05	3.64e-06	0.0	0.0
20	4.920	0.203	0.258	0.26	3.11e-02	36.80	4.4	0.17	2.07e-02	0.0	0.0
21	5.141	0.195	0.250	19.21	2.3	7.72e-05	9.26e-06	1.91e-05	2.29e-06	0.0	0.0
22	5.575	0.179	0.239	12.19	1.5	1.92	0.2	0.25	2.95e-02	0.0	0.0
23	5.830	0.172	0.234	7.92	0.9	2.43	0.3	0.05	5.87e-03	0.0	0.0
24	5.895	0.170	0.233	4.78	0.6	10.19	1.2	0.02	1.84e-03	0.0	0.0
25	6.497	0.154	0.223	2.83	0.3	0.48	5.76e-02	0.01	1.27e-03	0.0	0.0
26	6.797	0.147	0.218	8.71	1.0	0.05	5.58e-03	0.01	1.22e-03	0.0	0.0
27	6.949	0.144	0.216	24.70	3.0	2.58	0.3	0.05	5.42e-03	0.0	0.0
28	7.155	0.140	0.213	2.62	0.3	7.42	0.9	1.53e-03	1.83e-04	0.0	0.0
29	7.399	0.135	0.209	34.24	4.1	0.31	3.73e-02	0.09	1.06e-02	0.0	0.0
30	7.787	0.128	0.204	0.45	5.35e-02	17.57	2.1	1.60e-03	1.92e-04	0.0	0.0
31	8.013	0.125	0.201	7.04	0.8	12.90	1.5	4.31e-04	5.17e-05	0.0	0.0
32	8.385	0.119	0.198	16.28	2.0	0.44	5.30e-02	0.06	6.75e-03	0.0	0.0
33	8.636	0.116	0.203	2.22	0.3	7.52	0.9	0.07	8.87e-03	0.0	0.0
34	9.021	0.111	0.211	0.89	0.1	0.85	0.1	0.19	2.28e-02	0.0	0.0
35	9.062	0.110	0.212	1.68	0.2	4.39	0.5	0.60	7.23e-02	0.0	0.0
36	9.392	0.106	0.218	0.21	2.58e-02	17.31	2.1	1.19	0.1	0.0	0.0
37	9.781	0.102	0.225	0.26	3.11e-02	0.01	1.65e-03	0.03	3.72e-03	0.0	0.0
38	10.391	0.096	0.222	10.30	1.2	0.01	1.57e-03	2.35	0.3	0.0	0.0
39	10.495	0.095	0.220	0.07	8.46e-03	0.29	3.42e-02	0.02	2.48e-03	0.0	0.0
40	10.675	0.094	0.217	5.45	0.7	0.06	7.27e-03	3.46	0.4	0.0	0.0
41	10.743	0.093	0.216	1.41	0.2	0.95	0.1	0.03	4.08e-03	0.0	0.0
42	11.433	0.087	0.205	2.26e-03	2.71e-04	5.66	0.7	4.89e-04	5.86e-05	0.0	0.0
43	12.081	0.083	0.196	7.00e-03	8.39e-04	4.49	0.5	2.38e-03	2.86e-04	0.0	0.0
44	12.465	0.080	0.192	0.25	3.00e-02	0.27	3.21e-02	34.76	4.2	0.0	0.0
45	12.868	0.078	0.186	14.26	1.7	13.70	1.6	0.83	9.91e-02	0.0	0.0
46	13.196	0.076	0.182	6.46	0.8	0.01	1.21e-03	0.01	1.45e-03	0.0	0.0
47	13.476	0.074	0.178	2.69	0.3	0.94	0.1	0.10	1.19e-02	0.0	0.0
48	13.824	0.072	0.174	0.68	8.14e-02	0.51	6.14e-02	0.41	4.90e-02	0.0	0.0
49	14.022	0.071	0.171	1.52	0.2	2.38	0.3	0.13	1.51e-02	0.0	0.0
50	14.527	0.069	0.166	7.69	0.9	0.28	3.34e-02	0.06	7.56e-03	0.0	0.0
51	14.747	0.068	0.164	0.35	4.22e-02	3.02	0.4	0.14	1.68e-02	0.0	0.0
52	15.061	0.066	0.160	0.41	4.87e-02	0.43	5.17e-02	3.56e-04	4.27e-05	0.0	0.0
53	15.201	0.066	0.159	0.14	1.72e-02	1.34e-03	1.61e-04	0.03	3.94e-03	0.0	0.0
54	15.286	0.065	0.158	3.21	0.4	0.51	6.16e-02	9.83e-05	1.18e-05	0.0	0.0
55	15.422	0.065	0.157	0.08	9.83e-03	1.33	0.2	0.36	4.32e-02	0.0	0.0
56	15.622	0.064	0.155	1.42	0.2	1.12	0.1	0.72	8.63e-02	0.0	0.0
57	15.710	0.064	0.154	0.22	2.69e-02	5.49	0.7	2.88	0.3	0.0	0.0
58	15.735	0.064	0.154	1.43	0.2	5.04	0.6	0.57	6.85e-02	0.0	0.0
59	15.903	0.063	0.152	1.15	0.1	4.54	0.5	2.46	0.3	0.0	0.0
60	16.151	0.062	0.150	3.21	0.4	3.63	0.4	0.01	1.30e-03	0.0	0.0
61	16.330	0.061	0.149	2.48	0.3	3.27	0.4	0.50	5.95e-02	0.0	0.0
62	16.375	0.061	0.148	0.83	9.90e-02	0.42	5.05e-02	9.36	1.1	0.0	0.0
63	16.487	0.061	0.147	5.55e-04	6.66e-05	1.49	0.2	0.09	1.13e-02	0.0	0.0
64	16.623	0.060	0.146	3.65e-04	4.38e-05	0.04	4.60e-03	0.53	6.36e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
65	16.804	0.060	0.145	0.54	6.45e-02	0.16	1.88e-02	0.07	8.34e-03	0.0	0.0
66	17.213	0.058	0.143	2.89	0.3	0.16	1.87e-02	1.27	0.2	0.0	0.0
67	17.332	0.058	0.143	0.06	6.73e-03	2.73	0.3	13.23	1.6	0.0	0.0
68	18.114	0.055	0.140	0.68	8.13e-02	3.00	0.4	0.02	2.66e-03	0.0	0.0
69	18.338	0.055	0.139	0.42	5.09e-02	0.01	1.31e-03	0.81	9.68e-02	0.0	0.0
70	18.464	0.054	0.138	1.63	0.2	0.20	2.37e-02	0.75	9.04e-02	0.0	0.0
71	18.594	0.054	0.138	0.15	1.84e-02	0.01	1.49e-03	0.12	1.45e-02	0.0	0.0
72	19.022	0.053	0.136	6.99	0.8	0.02	2.47e-03	8.04	1.0	0.0	0.0
73	19.332	0.052	0.135	0.14	1.67e-02	4.99	0.6	8.37	1.0	0.0	0.0
74	19.439	0.051	0.135	1.81	0.2	0.22	2.59e-02	0.10	1.18e-02	0.0	0.0
75	19.682	0.051	0.134	0.01	1.78e-03	0.12	1.44e-02	0.56	6.68e-02	0.0	0.0
76	20.033	0.050	0.133	0.23	2.70e-02	0.56	6.72e-02	8.02e-06	0.0	0.0	0.0
77	20.702	0.048	0.131	0.46	5.57e-02	0.85	0.1	1.72	0.2	0.0	0.0
78	21.042	0.048	0.130	0.32	3.87e-02	0.40	4.75e-02	0.61	7.33e-02	0.0	0.0
79	21.719	0.046	0.128	1.53	0.2	0.13	1.59e-02	13.74	1.6	0.0	0.0
80	22.519	0.044	0.126	0.24	2.92e-02	0.24	2.94e-02	0.12	1.49e-02	0.0	0.0
81	23.076	0.043	0.125	0.40	4.79e-02	2.41e-03	2.89e-04	0.28	3.38e-02	0.0	0.0
82	23.199	0.043	0.125	9.47e-03	1.13e-03	0.32	3.83e-02	8.48	1.0	0.0	0.0
83	23.475	0.043	0.124	0.05	5.81e-03	2.87	0.3	15.84	1.9	0.0	0.0
84	24.311	0.041	0.122	0.08	9.95e-03	0.18	2.15e-02	3.15	0.4	0.0	0.0
85	25.046	0.040	0.121	0.89	0.1	0.07	7.83e-03	0.03	4.09e-03	0.0	0.0
86	25.358	0.039	0.120	0.36	4.35e-02	2.89e-03	3.46e-04	0.25	2.98e-02	0.0	0.0
87	25.458	0.039	0.120	0.79	9.46e-02	9.15e-04	1.10e-04	2.51e-03	3.01e-04	0.0	0.0
88	25.771	0.039	0.120	0.20	2.43e-02	6.10e-04	7.31e-05	7.53e-03	9.02e-04	0.0	0.0
89	25.823	0.039	0.120	5.68e-05	6.81e-06	0.18	2.16e-02	0.05	5.61e-03	0.0	0.0
90	26.014	0.038	0.120	0.09	1.04e-02	0.02	1.86e-03	0.69	8.33e-02	0.0	0.0
91	26.355	0.038	0.120	3.25	0.4	0.02	2.42e-03	0.12	1.42e-02	0.0	0.0
92	26.621	0.038	0.120	0.11	1.37e-02	0.01	1.39e-03	3.95	0.5	0.0	0.0
93	26.992	0.037	0.120	0.09	1.10e-02	0.06	6.68e-03	1.18	0.1	0.0	0.0
94	28.120	0.036	0.120	9.44e-04	1.13e-04	8.62e-06	1.03e-06	11.73	1.4	0.0	0.0
95	28.259	0.035	0.120	9.15e-03	1.10e-03	2.21e-03	2.65e-04	50.44	6.0	0.0	0.0
96	28.539	0.035	0.120	1.94	0.2	5.23e-03	6.27e-04	0.12	1.42e-02	0.0	0.0
97	29.655	0.034	0.119	0.21	2.57e-02	0.01	1.35e-03	2.20e-04	2.63e-05	0.0	0.0
98	29.867	0.033	0.119	0.86	0.1	0.03	3.73e-03	5.11e-03	6.13e-04	0.0	0.0
99	30.453	0.033	0.119	4.14	0.5	0.51	6.07e-02	0.02	1.87e-03	0.0	0.0
100	31.780	0.031	0.119	0.03	3.80e-03	6.91e-03	8.29e-04	3.97	0.5	0.0	0.0
101	31.861	0.031	0.119	1.60	0.2	0.08	9.19e-03	0.65	7.83e-02	0.0	0.0
102	32.851	0.030	0.118	1.05e-03	1.26e-04	0.95	0.1	0.02	1.94e-03	0.0	0.0
103	34.557	0.029	0.118	5.86e-03	7.02e-04	0.05	5.82e-03	11.01	1.3	0.0	0.0
104	35.201	0.028	0.118	4.72	0.6	0.05	5.54e-03	1.53	0.2	0.0	0.0
105	35.412	0.028	0.118	2.17e-03	2.61e-04	0.52	6.29e-02	0.03	3.48e-03	0.0	0.0
106	36.264	0.028	0.118	3.94e-04	4.72e-05	5.24e-04	6.28e-05	6.56	0.8	0.0	0.0
107	36.494	0.027	0.118	0.01	1.50e-03	0.11	1.34e-02	0.07	7.83e-03	0.0	0.0
108	36.588	0.027	0.118	0.18	2.18e-02	1.77e-03	2.13e-04	0.05	5.87e-03	0.0	0.0
109	36.970	0.027	0.118	9.48e-04	1.14e-04	2.60e-03	3.12e-04	25.60	3.1	0.0	0.0
110	37.418	0.027	0.118	0.07	8.41e-03	1.07e-05	1.29e-06	0.02	2.70e-03	0.0	0.0
111	37.669	0.027	0.118	0.02	1.81e-03	2.49e-04	2.98e-05	1.85e-03	2.22e-04	0.0	0.0
112	37.940	0.026	0.118	7.52e-05	9.01e-06	0.01	1.44e-03	0.01	1.28e-03	0.0	0.0
113	40.234	0.025	0.117	1.05e-03	1.26e-04	0.05	5.94e-03	0.01	1.48e-03	0.0	0.0
114	41.229	0.024	0.117	3.34e-04	4.00e-05	1.68e-03	2.01e-04	58.12	7.0	0.0	0.0
115	41.401	0.024	0.117	8.82e-03	1.06e-03	5.95e-05	7.14e-06	0.01	1.35e-03	0.0	0.0
116	41.729	0.024	0.117	0.03	3.52e-03	0.01	1.25e-03	1.25	0.1	0.0	0.0
117	41.771	0.024	0.117	0.01	1.76e-03	0.04	4.20e-03	16.83	2.0	0.0	0.0
118	42.001	0.024	0.117	5.49e-03	6.58e-04	2.24e-03	2.69e-04	6.76e-04	8.11e-05	0.0	0.0
119	42.585	0.023	0.117	2.53e-05	3.03e-06	3.01e-03	3.61e-04	0.02	2.68e-03	0.0	0.0
120	43.580	0.023	0.117	0.27	3.26e-02	2.12	0.3	4.19e-04	5.02e-05	0.0	0.0
121	45.595	0.022	0.117	1.29e-03	1.55e-04	4.79e-04	5.75e-05	0.03	3.76e-03	0.0	0.0
122	46.379	0.022	0.117	2.17e-03	2.60e-04	0.02	2.06e-03	44.40	5.3	0.0	0.0
123	46.542	0.021	0.117	5.01e-03	6.01e-04	0.02	2.06e-03	5.89	0.7	0.0	0.0
124	46.723	0.021	0.117	0.17	2.05e-02	1.69	0.2	0.03	3.62e-03	0.0	0.0
125	46.935	0.021	0.116	5.46e-03	6.55e-04	0.05	5.66e-03	9.42	1.1	0.0	0.0
126	47.369	0.021	0.116	5.10e-04	6.11e-05	0.02	2.61e-03	13.83	1.7	0.0	0.0
127	49.252	0.020	0.116	2.18e-03	2.62e-04	1.85e-04	2.22e-05	98.07	11.8	0.0	0.0
128	49.674	0.020	0.116	0.03	3.99e-03	0.01	1.74e-03	1.00	0.1	0.0	0.0
129	49.856	0.020	0.116	7.64	0.9	4.17e-05	5.00e-06	0.29	3.46e-02	0.0	0.0
130	50.335	0.020	0.116	1.26e-03	1.51e-04	0.01	1.71e-03	14.01	1.7	0.0	0.0
131	51.100	0.020	0.116	9.73e-03	1.17e-03	0.11	1.29e-02	17.75	2.1	0.0	0.0
132	52.820	0.019	0.116	1.10e-06	0.0	5.47e-06	0.0	37.18	4.5	0.0	0.0
133	53.186	0.019	0.116	3.69e-06	0.0	5.90	0.7	0.75	9.01e-02	0.0	0.0
134	53.574	0.019	0.116	0.0	0.0	1.24e-06	0.0	2.89e-03	3.46e-04	0.0	0.0
135	54.116	0.018	0.116	0.02	2.92e-03	0.0	0.0	16.44	2.0	0.0	0.0
136	54.183	0.018	0.116	0.0	0.0	0.06	7.54e-03	5.73e-04	6.87e-05	0.0	0.0
137	54.346	0.018	0.116	0.08	9.41e-03	2.35e-05	2.82e-06	2.19e-04	2.63e-05	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
138	54.668	0.018	0.116	2.12e-06	0.0	0.11	1.36e-02	16.24	1.9	0.0	0.0
139	54.975	0.018	0.116	3.79e-03	4.54e-04	0.02	2.67e-03	28.73	3.4	0.0	0.0
140	55.354	0.018	0.116	7.11e-05	8.53e-06	1.26e-04	1.51e-05	3.92e-03	4.70e-04	0.0	0.0
141	55.722	0.018	0.116	0.09	1.07e-02	2.69e-03	3.23e-04	0.03	3.46e-03	0.0	0.0
142	58.235	0.017	0.116	7.38	0.9	1.44e-05	1.73e-06	5.04	0.6	0.0	0.0
143	58.936	0.017	0.116	1.79e-03	2.14e-04	0.0	0.0	0.99	0.1	0.0	0.0
144	58.976	0.017	0.116	0.02	2.91e-03	8.82e-04	1.06e-04	6.73	0.8	0.0	0.0
145	59.068	0.017	0.116	0.08	9.77e-03	3.94e-03	4.72e-04	27.13	3.3	0.0	0.0
146	59.909	0.017	0.116	0.0	0.0	7.34	0.9	5.48	0.7	0.0	0.0
147	60.691	0.016	0.116	1.48e-03	1.77e-04	4.43e-05	5.32e-06	11.99	1.4	0.0	0.0
148	60.707	0.016	0.116	1.70e-05	2.03e-06	0.05	6.54e-03	12.21	1.5	0.0	0.0
149	61.067	0.016	0.116	2.50e-03	3.00e-04	4.47e-04	5.36e-05	3.40e-06	0.0	0.0	0.0
150	61.693	0.016	0.116	1.62e-04	1.94e-05	0.0	0.0	14.73	1.8	0.0	0.0
151	61.731	0.016	0.116	9.50e-06	1.14e-06	3.95e-04	4.73e-05	12.71	1.5	0.0	0.0
152	63.119	0.016	0.116	0.23	2.79e-02	2.26e-06	0.0	0.03	3.42e-03	0.0	0.0
153	63.628	0.016	0.116	1.00	0.1	0.03	3.39e-03	3.85	0.5	0.0	0.0
154	64.892	0.015	0.116	0.72	8.65e-02	0.04	5.38e-03	1.26	0.2	0.0	0.0
155	65.047	0.015	0.116	2.52e-06	0.0	0.19	2.30e-02	0.02	2.74e-03	0.0	0.0
156	65.772	0.015	0.116	4.32e-04	5.18e-05	0.04	4.81e-03	0.07	7.91e-03	0.0	0.0
157	67.019	0.015	0.116	2.46e-04	2.95e-05	3.70e-04	4.44e-05	0.02	2.22e-03	0.0	0.0
158	69.125	0.014	0.116	3.52e-04	4.22e-05	6.63e-05	7.95e-06	0.13	1.53e-02	0.0	0.0
159	70.054	0.014	0.116	8.56e-03	1.03e-03	5.85e-04	7.02e-05	0.10	1.15e-02	0.0	0.0
160	70.163	0.014	0.116	0.04	5.29e-03	0.02	2.62e-03	0.03	3.83e-03	0.0	0.0
161	70.301	0.014	0.116	4.02e-03	4.81e-04	0.08	9.56e-03	0.01	1.33e-03	0.0	0.0
162	72.808	0.014	0.116	2.01e-03	2.41e-04	6.06e-05	7.27e-06	0.22	2.58e-02	0.0	0.0
163	73.390	0.014	0.116	2.48e-04	2.98e-05	0.02	2.89e-03	0.13	1.62e-02	0.0	0.0
164	73.758	0.014	0.116	7.46e-03	8.94e-04	4.73e-03	5.67e-04	0.41	4.93e-02	0.0	0.0
165	75.393	0.013	0.116	0.08	1.01e-02	6.32e-04	7.57e-05	0.07	7.94e-03	0.0	0.0
166	76.369	0.013	0.116	3.58e-03	4.30e-04	4.77e-03	5.72e-04	0.34	4.03e-02	0.0	0.0
167	78.528	0.013	0.116	0.10	1.20e-02	2.12e-03	2.54e-04	0.02	2.08e-03	0.0	0.0
168	78.661	0.013	0.116	0.09	1.12e-02	3.74e-04	4.48e-05	0.37	4.45e-02	0.0	0.0
169	79.710	0.013	0.116	3.56e-03	4.27e-04	6.97e-03	8.36e-04	0.02	2.30e-03	0.0	0.0
170	79.920	0.013	0.116	1.18e-03	1.41e-04	0.0	0.0	15.94	1.9	0.0	0.0
171	81.491	0.012	0.116	7.15e-03	8.57e-04	2.12e-03	2.54e-04	0.02	2.78e-03	0.0	0.0
172	82.935	0.012	0.116	2.79e-04	3.35e-05	0.46	5.51e-02	1.29	0.2	0.0	0.0
173	84.079	0.012	0.116	6.02e-04	7.22e-05	0.02	1.88e-03	3.25	0.4	0.0	0.0
174	84.946	0.012	0.116	8.18e-04	9.80e-05	0.02	2.59e-03	0.13	1.57e-02	0.0	0.0
175	86.921	0.012	0.116	2.39e-03	2.87e-04	4.79e-04	5.74e-05	0.04	4.28e-03	0.0	0.0
176	88.758	0.011	0.116	1.86e-04	2.22e-05	0.02	2.26e-03	2.44	0.3	0.0	0.0
177	89.551	0.011	0.116	2.30e-05	2.75e-06	0.29	3.46e-02	0.32	3.88e-02	0.0	0.0
178	92.023	0.011	0.116	0.02	2.88e-03	6.13e-03	7.35e-04	0.31	3.77e-02	0.0	0.0
179	92.461	0.011	0.116	0.03	3.48e-03	3.83e-03	4.59e-04	0.24	2.91e-02	0.0	0.0
180	94.512	0.011	0.116	3.32e-06	0.0	0.15	1.75e-02	2.20e-03	2.63e-04	0.0	0.0
181	96.072	0.010	0.116	2.15e-04	2.58e-05	0.10	1.24e-02	0.39	4.66e-02	0.0	0.0
182	98.135	0.010	0.116	9.77e-03	1.17e-03	0.03	4.03e-03	0.28	3.32e-02	0.0	0.0
183	99.232	0.010	0.116	1.04e-04	1.25e-05	0.01	1.28e-03	1.34	0.2	0.0	0.0
184	100.444	0.010	0.116	0.01	1.47e-03	3.34e-03	4.00e-04	0.27	3.21e-02	0.0	0.0
185	103.277	0.010	0.116	7.88e-04	9.44e-05	9.57e-03	1.15e-03	1.83	0.2	0.0	0.0
186	104.259	0.010	0.116	1.72e-06	0.0	0.07	7.96e-03	0.33	3.93e-02	0.0	0.0
187	106.775	0.009	0.116	4.47e-05	5.36e-06	1.12e-03	1.34e-04	6.70	0.8	0.0	0.0
188	112.290	0.009	0.116	7.49e-06	0.0	8.07e-03	9.68e-04	0.02	2.45e-03	0.0	0.0
189	113.836	0.009	0.116	4.93e-05	5.92e-06	4.22e-04	5.06e-05	0.75	8.95e-02	0.0	0.0
190	114.534	0.009	0.116	8.53e-03	1.02e-03	1.07e-05	1.28e-06	6.97e-04	8.35e-05	0.0	0.0
191	122.025	0.008	0.116	0.0	0.0	0.02	1.99e-03	3.94e-03	4.72e-04	0.0	0.0
192	131.808	0.008	0.116	0.41	4.90e-02	0.06	7.17e-03	0.02	2.34e-03	0.0	0.0
193	134.593	0.007	0.116	3.99e-03	4.78e-04	6.31e-06	0.0	3.28	0.4	0.0	0.0
194	138.375	0.007	0.116	0.44	5.25e-02	0.05	5.45e-03	0.01	1.54e-03	0.0	0.0
195	140.980	0.007	0.116	0.15	1.79e-02	0.07	8.95e-03	1.01e-03	1.21e-04	0.0	0.0
196	145.642	0.007	0.116	3.90e-03	4.67e-04	1.83e-03	2.19e-04	15.84	1.9	0.0	0.0
197	148.896	0.007	0.116	0.28	3.36e-02	0.05	6.58e-03	0.84	0.1	0.0	0.0
198	150.812	0.007	0.116	9.33e-03	1.12e-03	0.24	2.83e-02	3.27	0.4	0.0	0.0
199	155.425	0.006	0.116	1.70e-03	2.04e-04	0.03	3.77e-03	7.62	0.9	0.0	0.0
200	161.537	0.006	0.116	0.19	2.27e-02	0.04	4.77e-03	0.02	2.10e-03	0.0	0.0
201	168.825	0.006	0.116	0.20	2.37e-02	0.05	5.61e-03	1.74	0.2	0.0	0.0
202	173.662	0.006	0.116	6.54e-04	7.85e-05	0.02	2.37e-03	8.98	1.1	0.0	0.0
203	178.190	0.006	0.116	0.03	3.37e-03	0.07	8.95e-03	1.36	0.2	0.0	0.0
204	186.657	0.005	0.116	2.25e-03	2.70e-04	0.09	1.09e-02	0.07	8.11e-03	0.0	0.0
205	189.333	0.005	0.116	0.09	1.08e-02	5.00e-04	5.99e-05	0.40	4.74e-02	0.0	0.0
206	193.985	0.005	0.116	0.03	3.10e-03	7.48e-05	8.97e-06	1.58	0.2	0.0	0.0
207	212.967	0.005	0.116	0.01	1.79e-03	0.07	8.15e-03	0.10	1.17e-02	0.0	0.0
208	218.658	0.005	0.116	5.62e-03	6.73e-04	0.03	3.95e-03	1.23	0.1	0.0	0.0
209	221.859	0.005	0.116	5.18e-03	6.21e-04	3.59e-03	4.30e-04	3.21	0.4	0.0	0.0
210	258.317	0.004	0.116	9.49e-04	1.14e-04	0.03	3.66e-03	3.03e-04	3.63e-05	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
211	265.516	0.004	0.116	5.36e-03	6.43e-04	1.77e-03	2.13e-04	2.57	0.3	0.0	0.0
212	274.266	0.004	0.116	0.13	1.54e-02	0.03	3.90e-03	0.09	1.06e-02	0.0	0.0
213	296.015	0.003	0.116	0.01	1.46e-03	0.10	1.15e-02	1.95e-04	2.34e-05	0.0	0.0
214	302.843	0.003	0.116	0.06	7.77e-03	1.95e-03	2.34e-04	3.13e-03	3.76e-04	0.0	0.0
215	339.502	0.003	0.116	1.30e-04	1.56e-05	0.0	0.0	0.85	0.1	0.0	0.0
216	348.154	0.003	0.116	6.23e-03	7.47e-04	1.54e-03	1.85e-04	6.91e-03	8.29e-04	0.0	0.0
217	367.049	0.003	0.116	3.61e-03	4.32e-04	2.83e-03	3.39e-04	0.04	4.23e-03	0.0	0.0
218	416.128	0.002	0.116	6.77e-05	8.11e-06	5.49e-05	6.58e-06	0.85	0.1	0.0	0.0
219	532.094	0.002	0.116	8.77e-05	1.05e-05	1.18e-03	1.42e-04	0.13	1.54e-02	0.0	0.0
220	559.446	0.002	0.116	4.54e-03	5.44e-04	2.81e-04	3.37e-05	0.31	3.75e-02	0.0	0.0
221	608.365	0.002	0.116	2.23e-04	2.67e-05	7.49e-05	8.98e-06	0.54	6.47e-02	0.0	0.0
222	810.356	0.001	0.116	1.25e-04	1.49e-05	6.16e-04	7.39e-05	1.25e-03	1.50e-04	0.0	0.0
223	919.698	0.001	0.116	5.83e-04	6.99e-05	1.25e-05	1.50e-06	0.09	1.06e-02	0.0	0.0
224	960.823	0.001	0.116	7.57e-05	9.08e-06	1.10e-05	1.32e-06	0.27	3.19e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
16	Edk	CDC=Ed (dinamico SLO) alfa=90.00 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.423 sec.
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	-0.40	0.0	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	-0.54	0.0	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	-0.54	0.0	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	-0.30	0.0	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	-0.54	0.0	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	-0.38	0.0	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	-0.08	0.0	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.843	1.187	0.088	9.92	1.2	7.57e-04	9.08e-05	0.0	0.0	0.0	0.0
2	0.846	1.182	0.089	0.03	3.69e-03	0.0	0.0	5.13e-06	0.0	0.0	0.0
3	1.049	0.953	0.096	2.03e-03	2.44e-04	11.07	1.3	1.21e-05	1.45e-06	0.0	0.0
4	1.054	0.949	0.096	1.22e-04	1.46e-05	0.03	3.07e-03	1.40e-05	1.67e-06	0.0	0.0
5	1.325	0.755	0.116	10.93	1.3	7.76e-03	9.31e-04	0.0	0.0	0.0	0.0
6	1.327	0.754	0.116	0.04	4.27e-03	6.86e-06	0.0	5.36e-06	0.0	0.0	0.0
7	1.419	0.705	0.134	4.42e-03	5.29e-04	10.12	1.2	1.46e-06	0.0	0.0	0.0
8	1.421	0.704	0.135	1.14e-04	1.37e-05	0.03	3.32e-03	9.32e-06	1.12e-06	0.0	0.0
9	1.510	0.662	0.156	6.74	0.8	1.34e-05	1.61e-06	1.30e-05	1.56e-06	0.0	0.0
10	1.517	0.659	0.158	0.01	1.60e-03	1.83e-04	2.20e-05	1.23e-05	1.48e-06	0.0	0.0
11	1.592	0.628	0.183	1.45e-06	0.0	3.29	0.4	0.0	0.0	0.0	0.0
12	2.334	0.428	0.260	29.14	3.5	92.66	11.1	6.17e-03	7.40e-04	0.0	0.0
13	2.363	0.423	0.261	139.46	16.7	273.97	32.8	0.03	3.62e-03	0.0	0.0
14	2.940	0.340	0.309	307.13	36.8	157.95	18.9	0.02	2.14e-03	0.0	0.0
15	3.517	0.284	0.355	34.20	4.1	19.01	2.3	2.60e-06	0.0	0.0	0.0
16	3.648	0.274	0.357	23.60	2.8	1.62	0.2	2.35e-03	2.82e-04	0.0	0.0
17	3.977	0.251	0.362	0.07	8.34e-03	37.95	4.6	0.12	1.45e-02	0.0	0.0
18	4.035	0.248	0.357	0.67	8.03e-02	19.63	2.4	6.54e-04	7.85e-05	0.0	0.0
19	4.229	0.236	0.336	0.29	3.54e-02	2.84e-04	3.41e-05	2.12e-04	2.54e-05	0.0	0.0
20	4.629	0.216	0.277	2.12e-03	2.54e-04	15.37	1.8	1.53e-05	1.83e-06	0.0	0.0
21	5.141	0.195	0.250	19.19	2.3	4.56e-05	5.46e-06	1.59e-05	1.90e-06	0.0	0.0
22	5.591	0.179	0.239	19.13	2.3	6.31e-06	0.0	0.31	3.72e-02	0.0	0.0
23	5.858	0.171	0.234	0.84	0.1	0.28	3.41e-02	5.56e-03	6.66e-04	0.0	0.0
24	6.010	0.166	0.231	5.89	0.7	8.26	1.0	0.01	1.59e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
25	6.395	0.156	0.225	2.85	0.3	1.44	0.2	0.02	1.81e-03	0.0	0.0
26	6.816	0.147	0.218	6.87	0.8	5.57e-04	6.68e-05	7.04e-03	8.44e-04	0.0	0.0
27	7.023	0.142	0.215	33.46	4.0	0.40	4.78e-02	0.03	4.14e-03	0.0	0.0
28	7.183	0.139	0.213	0.10	1.25e-02	1.69	0.2	0.01	1.76e-03	0.0	0.0
29	7.374	0.136	0.210	33.11	4.0	0.88	0.1	0.15	1.84e-02	0.0	0.0
30	7.654	0.131	0.206	9.83e-04	1.18e-04	0.69	8.32e-02	0.73	8.81e-02	0.0	0.0
31	7.889	0.127	0.202	3.32	0.4	14.14	1.7	0.10	1.22e-02	0.0	0.0
32	8.150	0.123	0.199	0.12	1.45e-02	17.74	2.1	0.04	4.87e-03	0.0	0.0
33	8.472	0.118	0.200	15.22	1.8	21.73	2.6	7.03e-03	8.43e-04	0.0	0.0
34	8.670	0.115	0.204	3.15	0.4	5.44	0.7	0.03	3.38e-03	0.0	0.0
35	9.008	0.111	0.211	0.76	9.05e-02	1.78	0.2	0.04	5.09e-03	0.0	0.0
36	9.350	0.107	0.218	2.38	0.3	8.66	1.0	0.04	4.56e-03	0.0	0.0
37	9.796	0.102	0.226	0.12	1.44e-02	0.79	9.45e-02	4.99e-04	5.98e-05	0.0	0.0
38	10.422	0.096	0.221	10.62	1.3	0.05	6.02e-03	2.53	0.3	0.0	0.0
39	10.541	0.095	0.219	1.71	0.2	0.42	5.05e-02	0.50	6.02e-02	0.0	0.0
40	10.699	0.093	0.217	3.03	0.4	0.25	3.03e-02	2.73	0.3	0.0	0.0
41	10.781	0.093	0.215	2.52	0.3	1.26	0.2	0.10	1.24e-02	0.0	0.0
42	11.771	0.085	0.201	1.08e-03	1.29e-04	5.60	0.7	5.85e-04	7.01e-05	0.0	0.0
43	12.184	0.082	0.195	5.76e-03	6.90e-04	3.51	0.4	0.02	2.24e-03	0.0	0.0
44	12.418	0.081	0.192	5.71	0.7	13.47	1.6	10.27	1.2	0.0	0.0
45	12.497	0.080	0.191	2.73	0.3	5.39	0.6	25.36	3.0	0.0	0.0
46	13.194	0.076	0.182	9.27	1.1	0.18	2.15e-02	0.02	2.30e-03	0.0	0.0
47	13.433	0.074	0.179	4.03	0.5	0.51	6.11e-02	0.08	9.41e-03	0.0	0.0
48	13.598	0.074	0.177	4.79	0.6	0.62	7.38e-02	0.61	7.30e-02	0.0	0.0
49	13.800	0.072	0.174	0.19	2.32e-02	2.33e-04	2.79e-05	2.57	0.3	0.0	0.0
50	13.893	0.072	0.173	0.07	8.35e-03	0.80	9.59e-02	0.02	2.82e-03	0.0	0.0
51	14.240	0.070	0.169	5.27	0.6	0.09	1.06e-02	0.35	4.18e-02	0.0	0.0
52	14.359	0.070	0.168	1.51	0.2	0.91	0.1	3.46	0.4	0.0	0.0
53	14.583	0.069	0.165	0.21	2.54e-02	0.20	2.39e-02	0.05	5.44e-03	0.0	0.0
54	14.843	0.067	0.163	0.01	1.22e-03	0.31	3.69e-02	9.56e-03	1.15e-03	0.0	0.0
55	15.258	0.066	0.158	3.11	0.4	0.14	1.67e-02	0.03	3.44e-03	0.0	0.0
56	15.294	0.065	0.158	2.31e-03	2.77e-04	3.85e-03	4.62e-04	0.01	1.32e-03	0.0	0.0
57	15.411	0.065	0.157	0.03	3.27e-03	0.91	0.1	4.99e-03	5.99e-04	0.0	0.0
58	15.647	0.064	0.155	0.81	9.73e-02	3.26	0.4	0.03	3.35e-03	0.0	0.0
59	15.770	0.063	0.154	1.48	0.2	1.55	0.2	2.08e-03	2.50e-04	0.0	0.0
60	16.010	0.062	0.151	1.02	0.1	0.49	5.86e-02	4.25e-03	5.10e-04	0.0	0.0
61	16.032	0.062	0.151	9.83e-06	1.18e-06	1.32	0.2	8.71	1.0	0.0	0.0
62	16.348	0.061	0.148	0.78	9.37e-02	1.79	0.2	7.12	0.9	0.0	0.0
63	16.411	0.061	0.148	9.28e-03	1.11e-03	5.45	0.7	2.28	0.3	0.0	0.0
64	16.452	0.061	0.148	2.88	0.3	6.49	0.8	0.10	1.16e-02	0.0	0.0
65	16.679	0.060	0.146	5.70	0.7	0.92	0.1	0.34	4.06e-02	0.0	0.0
66	16.831	0.059	0.145	1.07	0.1	3.41	0.4	2.24e-05	2.68e-06	0.0	0.0
67	17.462	0.057	0.142	1.59	0.2	4.92	0.6	0.09	1.09e-02	0.0	0.0
68	17.651	0.057	0.142	0.23	2.79e-02	0.23	2.70e-02	0.09	1.12e-02	0.0	0.0
69	18.251	0.055	0.139	3.16e-05	3.78e-06	0.89	0.1	0.08	9.17e-03	0.0	0.0
70	18.322	0.055	0.139	0.58	6.93e-02	0.03	4.07e-03	0.05	6.02e-03	0.0	0.0
71	18.397	0.054	0.139	0.04	4.65e-03	5.53	0.7	3.32	0.4	0.0	0.0
72	18.514	0.054	0.138	2.45	0.3	1.86	0.2	0.48	5.78e-02	0.0	0.0
73	18.561	0.054	0.138	0.47	5.63e-02	0.48	5.75e-02	0.04	5.05e-03	0.0	0.0
74	19.007	0.053	0.136	7.14	0.9	0.63	7.59e-02	8.73	1.0	0.0	0.0
75	19.084	0.052	0.136	0.06	6.98e-03	1.94	0.2	0.04	4.46e-03	0.0	0.0
76	19.724	0.051	0.134	0.92	0.1	0.54	6.52e-02	0.03	3.50e-03	0.0	0.0
77	20.377	0.049	0.132	5.01e-03	6.00e-04	0.63	7.59e-02	14.77	1.8	0.0	0.0
78	20.737	0.048	0.131	0.05	6.41e-03	0.09	1.07e-02	5.77	0.7	0.0	0.0
79	21.820	0.046	0.128	1.60	0.2	0.08	9.85e-03	2.31	0.3	0.0	0.0
80	22.443	0.045	0.126	0.20	2.46e-02	0.24	2.93e-02	15.74	1.9	0.0	0.0
81	22.648	0.044	0.126	1.01	0.1	7.13e-03	8.55e-04	9.20	1.1	0.0	0.0
82	23.159	0.043	0.125	0.01	1.55e-03	0.06	6.82e-03	7.79	0.9	0.0	0.0
83	23.504	0.043	0.124	0.04	5.00e-03	0.78	9.36e-02	1.22	0.1	0.0	0.0
84	24.945	0.040	0.121	1.02	0.1	0.07	8.90e-03	0.02	2.55e-03	0.0	0.0
85	25.063	0.040	0.121	3.70e-03	4.43e-04	0.23	2.75e-02	0.21	2.50e-02	0.0	0.0
86	25.354	0.039	0.120	0.39	4.71e-02	1.40e-03	1.68e-04	0.36	4.30e-02	0.0	0.0
87	25.456	0.039	0.120	0.78	9.32e-02	2.76e-04	3.31e-05	2.84e-03	3.40e-04	0.0	0.0
88	25.671	0.039	0.120	0.07	8.43e-03	0.15	1.80e-02	2.85	0.3	0.0	0.0
89	26.022	0.038	0.120	0.07	8.29e-03	1.59e-04	1.91e-05	0.16	1.88e-02	0.0	0.0
90	26.321	0.038	0.120	3.29	0.4	0.01	1.41e-03	0.03	3.25e-03	0.0	0.0
91	26.636	0.038	0.120	0.02	2.34e-03	0.15	1.81e-02	1.52	0.2	0.0	0.0
92	26.716	0.037	0.120	0.19	2.23e-02	0.52	6.26e-02	0.13	1.55e-02	0.0	0.0
93	27.349	0.037	0.120	0.01	1.43e-03	1.08	0.1	0.14	1.70e-02	0.0	0.0
94	28.118	0.036	0.120	1.16e-03	1.39e-04	9.41e-03	1.13e-03	8.11	1.0	0.0	0.0
95	28.232	0.035	0.120	0.01	1.78e-03	0.04	4.79e-03	53.87	6.5	0.0	0.0
96	28.556	0.035	0.120	1.79	0.2	0.02	2.17e-03	0.04	4.66e-03	0.0	0.0
97	28.717	0.035	0.119	0.23	2.73e-02	0.55	6.54e-02	0.61	7.28e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
98	29.090	0.034	0.119	0.03	3.56e-03	0.72	8.61e-02	0.04	5.34e-03	0.0	0.0
99	29.934	0.033	0.119	1.59	0.2	0.21	2.51e-02	0.01	1.33e-03	0.0	0.0
100	30.524	0.033	0.119	2.67	0.3	0.02	1.83e-03	8.77e-03	1.05e-03	0.0	0.0
101	31.530	0.032	0.119	2.39	0.3	0.04	5.03e-03	0.02	2.00e-03	0.0	0.0
102	31.787	0.031	0.119	0.06	7.52e-03	4.14e-04	4.97e-05	4.60	0.6	0.0	0.0
103	34.455	0.029	0.118	8.39e-04	1.01e-04	3.22e-03	3.86e-04	10.69	1.3	0.0	0.0
104	35.210	0.028	0.118	4.74	0.6	0.06	7.58e-03	1.33	0.2	0.0	0.0
105	36.237	0.028	0.118	1.91e-04	2.29e-05	0.05	5.65e-03	2.82	0.3	0.0	0.0
106	36.288	0.028	0.118	2.28e-03	2.74e-04	0.09	1.07e-02	2.72	0.3	0.0	0.0
107	36.584	0.027	0.118	0.20	2.37e-02	5.87e-06	0.0	0.03	4.05e-03	0.0	0.0
108	36.948	0.027	0.118	3.38e-04	4.05e-05	2.22e-04	2.67e-05	27.17	3.3	0.0	0.0
109	37.134	0.027	0.118	4.12e-05	4.94e-06	4.75e-03	5.70e-04	0.03	3.44e-03	0.0	0.0
110	37.695	0.027	0.118	0.02	2.49e-03	4.79e-04	5.74e-05	6.01e-03	7.21e-04	0.0	0.0
111	38.069	0.026	0.118	0.04	4.94e-03	1.88e-03	2.25e-04	2.51e-03	3.00e-04	0.0	0.0
112	39.523	0.025	0.117	8.90e-05	1.07e-05	0.40	4.79e-02	5.94e-06	0.0	0.0	0.0
113	40.357	0.025	0.117	2.25e-05	2.70e-06	0.01	1.31e-03	0.02	2.58e-03	0.0	0.0
114	41.204	0.024	0.117	2.86e-04	3.43e-05	0.0	0.0	59.88	7.2	0.0	0.0
115	41.408	0.024	0.117	8.65e-03	1.04e-03	8.50e-06	1.02e-06	0.05	5.61e-03	0.0	0.0
116	41.712	0.024	0.117	0.01	1.52e-03	9.77e-03	1.17e-03	0.13	1.57e-02	0.0	0.0
117	41.754	0.024	0.117	0.03	3.67e-03	9.88e-03	1.18e-03	17.67	2.1	0.0	0.0
118	41.978	0.024	0.117	6.04e-03	7.25e-04	6.57e-03	7.88e-04	0.01	1.55e-03	0.0	0.0
119	43.711	0.023	0.117	0.29	3.42e-02	1.95	0.2	4.59e-03	5.50e-04	0.0	0.0
120	44.895	0.022	0.117	1.14e-03	1.36e-04	0.12	1.41e-02	0.03	3.50e-03	0.0	0.0
121	45.059	0.022	0.117	3.03e-06	0.0	9.77	1.2	1.50e-03	1.80e-04	0.0	0.0
122	45.622	0.022	0.117	1.43e-03	1.71e-04	0.02	2.02e-03	0.56	6.72e-02	0.0	0.0
123	46.332	0.022	0.117	3.99e-04	4.78e-05	0.02	1.92e-03	43.65	5.2	0.0	0.0
124	46.448	0.022	0.117	6.57e-03	7.88e-04	5.34e-04	6.41e-05	2.66	0.3	0.0	0.0
125	46.850	0.021	0.116	0.08	9.24e-03	0.97	0.1	3.41	0.4	0.0	0.0
126	46.916	0.021	0.116	0.08	1.00e-02	0.99	0.1	8.45	1.0	0.0	0.0
127	47.402	0.021	0.116	1.14e-03	1.37e-04	0.04	4.36e-03	11.54	1.4	0.0	0.0
128	49.258	0.020	0.116	2.68e-03	3.22e-04	9.18e-05	1.10e-05	102.43	12.3	0.0	0.0
129	49.698	0.020	0.116	0.04	4.26e-03	0.01	1.41e-03	3.73	0.4	0.0	0.0
130	49.856	0.020	0.116	7.63	0.9	4.09e-05	4.91e-06	0.25	2.95e-02	0.0	0.0
131	50.879	0.020	0.116	9.60e-03	1.15e-03	0.13	1.57e-02	27.22	3.3	0.0	0.0
132	52.820	0.019	0.116	1.12e-06	0.0	4.20e-06	0.0	37.17	4.5	0.0	0.0
133	53.494	0.019	0.116	1.08e-06	0.0	1.02e-03	1.22e-04	16.36	2.0	0.0	0.0
134	54.116	0.018	0.116	0.02	2.93e-03	0.0	0.0	16.49	2.0	0.0	0.0
135	54.346	0.018	0.116	0.08	9.41e-03	0.0	0.0	5.61e-05	6.73e-06	0.0	0.0
136	54.515	0.018	0.116	2.77e-06	0.0	0.07	7.90e-03	2.82e-05	3.38e-06	0.0	0.0
137	54.983	0.018	0.116	4.31e-03	5.17e-04	0.02	2.88e-03	29.26	3.5	0.0	0.0
138	55.350	0.018	0.116	6.13e-06	0.0	1.11e-04	1.34e-05	7.70e-03	9.23e-04	0.0	0.0
139	55.644	0.018	0.116	1.89e-03	2.26e-04	8.96e-06	1.07e-06	0.01	1.55e-03	0.0	0.0
140	55.711	0.018	0.116	0.09	1.05e-02	1.94e-03	2.32e-04	0.03	3.67e-03	0.0	0.0
141	56.685	0.018	0.116	1.71e-03	2.05e-04	0.02	2.50e-03	0.45	5.40e-02	0.0	0.0
142	56.772	0.018	0.116	1.71e-05	2.05e-06	7.34	0.9	5.71	0.7	0.0	0.0
143	58.235	0.017	0.116	7.38	0.9	0.0	0.0	5.02	0.6	0.0	0.0
144	58.984	0.017	0.116	0.01	1.37e-03	4.68e-04	5.61e-05	3.14	0.4	0.0	0.0
145	59.098	0.017	0.116	0.09	1.13e-02	5.39e-03	6.46e-04	30.89	3.7	0.0	0.0
146	60.270	0.017	0.116	4.38e-04	5.26e-05	3.05e-04	3.66e-05	3.03e-03	3.63e-04	0.0	0.0
147	60.691	0.016	0.116	1.74e-03	2.08e-04	9.49e-06	1.14e-06	7.83	0.9	0.0	0.0
148	60.694	0.016	0.116	5.54e-05	6.64e-06	2.47e-04	2.97e-05	17.11	2.1	0.0	0.0
149	61.147	0.016	0.116	2.93e-03	3.52e-04	9.84e-04	1.18e-04	1.25e-03	1.50e-04	0.0	0.0
150	61.313	0.016	0.116	1.25e-06	0.0	0.29	3.44e-02	1.73e-03	2.08e-04	0.0	0.0
151	61.691	0.016	0.116	1.32e-04	1.58e-05	0.0	0.0	13.92	1.7	0.0	0.0
152	61.729	0.016	0.116	2.19e-06	0.0	4.46e-04	5.35e-05	13.56	1.6	0.0	0.0
153	63.119	0.016	0.116	0.23	2.79e-02	1.73e-06	0.0	0.03	3.44e-03	0.0	0.0
154	63.646	0.016	0.116	1.04	0.1	0.02	2.98e-03	3.97	0.5	0.0	0.0
155	64.947	0.015	0.116	0.68	8.13e-02	0.04	5.15e-03	1.15	0.1	0.0	0.0
156	67.288	0.015	0.116	4.28e-04	5.13e-05	8.76e-04	1.05e-04	0.03	3.53e-03	0.0	0.0
157	69.048	0.014	0.116	2.56e-04	3.07e-05	3.32e-05	3.99e-06	0.14	1.67e-02	0.0	0.0
158	70.053	0.014	0.116	7.54e-03	9.04e-04	4.70e-04	5.63e-05	0.07	8.27e-03	0.0	0.0
159	70.171	0.014	0.116	0.05	5.88e-03	8.88e-04	1.06e-04	0.04	4.86e-03	0.0	0.0
160	70.991	0.014	0.116	9.38e-04	1.12e-04	6.71e-03	8.05e-04	0.33	3.96e-02	0.0	0.0
161	72.839	0.014	0.116	1.34e-03	1.60e-04	1.37e-03	1.65e-04	0.28	3.34e-02	0.0	0.0
162	75.138	0.013	0.116	3.47e-03	4.17e-04	0.12	1.42e-02	1.97e-03	2.37e-04	0.0	0.0
163	75.326	0.013	0.116	0.05	5.82e-03	0.03	3.08e-03	6.82e-06	0.0	0.0	0.0
164	75.379	0.013	0.116	0.04	4.99e-03	0.04	4.26e-03	0.03	3.33e-03	0.0	0.0
165	76.669	0.013	0.116	7.46e-04	8.94e-05	0.03	3.80e-03	0.34	4.12e-02	0.0	0.0
166	77.123	0.013	0.116	1.08e-04	1.29e-05	0.01	1.57e-03	0.53	6.38e-02	0.0	0.0
167	78.562	0.013	0.116	0.19	2.28e-02	4.52e-04	5.42e-05	0.07	7.94e-03	0.0	0.0
168	79.384	0.013	0.116	9.04e-03	1.08e-03	0.02	1.85e-03	0.60	7.23e-02	0.0	0.0
169	79.912	0.013	0.116	2.51e-04	3.00e-05	1.23e-05	1.47e-06	15.31	1.8	0.0	0.0
170	81.310	0.012	0.116	6.81e-03	8.16e-04	5.31e-03	6.37e-04	0.23	2.75e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
171	82.861	0.012	0.116	1.12e-03	1.34e-04	0.23	2.75e-02	2.51e-03	3.01e-04	0.0	0.0
172	83.176	0.012	0.116	2.60e-05	3.12e-06	0.13	1.58e-02	3.21	0.4	0.0	0.0
173	84.337	0.012	0.116	2.04e-03	2.45e-04	1.86e-03	2.23e-04	1.97	0.2	0.0	0.0
174	85.106	0.012	0.116	5.17e-05	6.20e-06	0.01	1.63e-03	0.13	1.55e-02	0.0	0.0
175	86.990	0.011	0.116	6.27e-04	7.52e-05	1.74e-03	2.09e-04	0.99	0.1	0.0	0.0
176	88.652	0.011	0.116	1.49e-03	1.79e-04	6.72e-05	8.06e-06	0.26	3.14e-02	0.0	0.0
177	90.027	0.011	0.116	2.98e-04	3.58e-05	0.28	3.38e-02	0.79	9.43e-02	0.0	0.0
178	91.659	0.011	0.116	3.13e-05	3.75e-06	0.02	2.39e-03	0.48	5.80e-02	0.0	0.0
179	92.321	0.011	0.116	0.05	6.43e-03	3.98e-04	4.77e-05	4.33e-03	5.20e-04	0.0	0.0
180	95.649	0.010	0.116	2.12e-05	2.54e-06	0.14	1.69e-02	0.07	8.80e-03	0.0	0.0
181	96.339	0.010	0.116	9.69e-05	1.16e-05	0.05	5.74e-03	0.79	9.42e-02	0.0	0.0
182	97.162	0.010	0.116	1.75e-03	2.09e-04	0.27	3.23e-02	0.09	1.03e-02	0.0	0.0
183	98.593	0.010	0.116	4.14e-03	4.97e-04	0.01	1.76e-03	0.24	2.83e-02	0.0	0.0
184	100.495	0.010	0.116	0.01	1.53e-03	6.29e-03	7.54e-04	0.36	4.26e-02	0.0	0.0
185	102.163	0.010	0.116	2.93e-03	3.51e-04	4.08e-03	4.89e-04	3.58	0.4	0.0	0.0
186	106.224	0.009	0.116	1.94e-05	2.33e-06	3.32e-05	3.98e-06	7.04	0.8	0.0	0.0
187	106.843	0.009	0.116	8.01e-06	0.0	8.51e-03	1.02e-03	0.05	5.47e-03	0.0	0.0
188	113.315	0.009	0.116	4.84e-04	5.80e-05	7.30e-05	8.75e-06	0.05	5.55e-03	0.0	0.0
189	114.611	0.009	0.116	8.04e-03	9.64e-04	3.66e-04	4.39e-05	4.43e-03	5.31e-04	0.0	0.0
190	115.756	0.009	0.116	6.60e-05	7.92e-06	0.06	7.61e-03	2.72e-03	3.26e-04	0.0	0.0
191	127.977	0.008	0.116	3.82e-03	4.58e-04	0.03	3.47e-03	0.05	5.49e-03	0.0	0.0
192	130.101	0.008	0.116	0.17	2.09e-02	0.14	1.74e-02	0.03	3.15e-03	0.0	0.0
193	133.711	0.007	0.116	5.83e-03	6.99e-04	2.16e-05	2.59e-06	3.11	0.4	0.0	0.0
194	136.216	0.007	0.116	0.69	8.29e-02	0.08	9.95e-03	0.04	5.25e-03	0.0	0.0
195	137.326	0.007	0.116	0.02	2.04e-03	0.04	4.78e-03	2.40e-03	2.88e-04	0.0	0.0
196	145.308	0.007	0.116	0.05	6.01e-03	0.02	1.96e-03	11.91	1.4	0.0	0.0
197	147.282	0.007	0.116	0.15	1.81e-02	0.15	1.75e-02	6.55	0.8	0.0	0.0
198	149.084	0.007	0.116	0.21	2.46e-02	0.02	2.90e-03	0.16	1.93e-02	0.0	0.0
199	155.238	0.006	0.116	2.45e-03	2.94e-04	5.83e-03	7.00e-04	8.68	1.0	0.0	0.0
200	161.974	0.006	0.116	0.19	2.23e-02	0.04	4.61e-03	0.02	2.29e-03	0.0	0.0
201	168.167	0.006	0.116	0.19	2.22e-02	0.07	8.61e-03	1.23	0.1	0.0	0.0
202	171.618	0.006	0.116	1.59e-03	1.90e-04	4.99e-03	5.98e-04	10.35	1.2	0.0	0.0
203	177.770	0.006	0.116	0.03	4.02e-03	0.15	1.83e-02	0.18	2.12e-02	0.0	0.0
204	185.408	0.005	0.116	0.05	5.96e-03	0.03	3.41e-03	0.29	3.44e-02	0.0	0.0
205	190.880	0.005	0.116	0.04	4.43e-03	4.24e-04	5.09e-05	1.57	0.2	0.0	0.0
206	195.332	0.005	0.116	0.04	4.57e-03	7.01e-04	8.41e-05	1.20	0.1	0.0	0.0
207	212.623	0.005	0.116	0.01	1.76e-03	0.06	6.72e-03	0.09	1.12e-02	0.0	0.0
208	220.383	0.005	0.116	6.81e-04	8.16e-05	0.02	2.73e-03	3.25	0.4	0.0	0.0
209	225.036	0.004	0.116	9.38e-03	1.12e-03	0.04	4.22e-03	0.97	0.1	0.0	0.0
210	253.606	0.004	0.116	6.42e-04	7.69e-05	0.10	1.17e-02	5.74e-03	6.88e-04	0.0	0.0
211	265.098	0.004	0.116	8.94e-03	1.07e-03	1.24e-03	1.49e-04	2.52	0.3	0.0	0.0
212	269.754	0.004	0.116	0.09	1.08e-02	0.03	3.61e-03	0.17	2.08e-02	0.0	0.0
213	289.159	0.003	0.116	0.06	6.90e-03	0.03	3.56e-03	5.02e-03	6.01e-04	0.0	0.0
214	303.622	0.003	0.116	0.05	6.49e-03	3.11e-03	3.73e-04	0.01	1.34e-03	0.0	0.0
215	335.457	0.003	0.116	3.41e-04	4.08e-05	3.33e-05	3.99e-06	0.81	9.68e-02	0.0	0.0
216	351.606	0.003	0.116	9.32e-03	1.12e-03	3.91e-05	4.68e-06	0.02	2.00e-03	0.0	0.0
217	389.391	0.003	0.116	8.63e-04	1.04e-04	2.11e-03	2.53e-04	0.13	1.59e-02	0.0	0.0
218	415.459	0.002	0.116	1.48e-05	1.77e-06	1.15e-06	0.0	0.78	9.39e-02	0.0	0.0
219	542.583	0.002	0.116	7.21e-04	8.64e-05	7.83e-04	9.38e-05	0.32	3.81e-02	0.0	0.0
220	563.170	0.002	0.116	4.00e-03	4.80e-04	6.66e-04	7.99e-05	0.13	1.60e-02	0.0	0.0
221	609.924	0.002	0.116	1.22e-04	1.46e-05	1.65e-05	1.98e-06	0.54	6.47e-02	0.0	0.0
222	819.985	0.001	0.116	1.25e-04	1.50e-05	5.44e-04	6.52e-05	5.99e-03	7.18e-04	0.0	0.0
223	918.591	0.001	0.116	5.83e-04	6.99e-05	1.57e-05	1.88e-06	0.08	9.82e-03	0.0	0.0
224	962.252	0.001	0.116	7.29e-05	8.74e-06	1.66e-05	2.00e-06	0.27	3.21e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
17	Edk	CDC=Ed (dinamico SL CO) alfa=0.0 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.336 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	0.0	-0.40	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	0.0	-0.54	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	0.0	-0.54	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	0.0	-0.30	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	0.0	-0.54	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	0.0	-0.38	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	0.0	-0.08	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	0.0	-0.08	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.826	1.211	0.204	10.34	1.2	4.66e-04	5.58e-05	0.0	0.0	0.0	0.0
2	0.829	1.206	0.204	0.03	3.83e-03	0.0	0.0	4.93e-06	0.0	0.0	0.0
3	1.027	0.974	0.227	1.90e-03	2.28e-04	11.57	1.4	1.17e-05	1.40e-06	0.0	0.0
4	1.032	0.969	0.227	9.22e-05	1.11e-05	0.03	3.16e-03	1.34e-05	1.61e-06	0.0	0.0
5	1.248	0.801	0.258	12.09	1.4	4.87e-03	5.84e-04	0.0	0.0	0.0	0.0
6	1.250	0.800	0.258	0.04	4.80e-03	3.36e-06	0.0	4.72e-06	0.0	0.0	0.0
7	1.325	0.755	0.281	2.44e-03	2.92e-04	11.18	1.3	1.62e-06	0.0	0.0	0.0
8	1.327	0.754	0.282	6.60e-05	7.91e-06	0.03	3.78e-03	8.01e-06	0.0	0.0	0.0
9	1.441	0.694	0.341	7.42	0.9	0.0	0.0	1.21e-05	1.45e-06	0.0	0.0
10	1.448	0.691	0.343	0.01	1.73e-03	1.09e-04	1.30e-05	1.13e-05	1.35e-06	0.0	0.0
11	1.512	0.662	0.359	5.95e-06	0.0	3.66	0.4	0.0	0.0	0.0	0.0
12	2.221	0.450	0.441	0.99	0.1	12.15	1.5	1.86e-04	2.23e-05	0.0	0.0
13	2.357	0.424	0.469	177.26	21.3	347.54	41.7	0.03	4.18e-03	0.0	0.0
14	2.979	0.336	0.604	309.79	37.1	180.58	21.7	0.01	1.46e-03	0.0	0.0
15	3.415	0.293	0.623	24.35	2.9	11.31	1.4	6.87e-04	8.23e-05	0.0	0.0
16	3.588	0.279	0.601	23.15	2.8	0.95	0.1	4.29e-03	5.14e-04	0.0	0.0
17	3.910	0.256	0.582	0.17	1.99e-02	3.43	0.4	0.02	2.04e-03	0.0	0.0
18	4.182	0.239	0.499	0.05	6.28e-03	1.58	0.2	8.66e-03	1.04e-03	0.0	0.0
19	4.258	0.235	0.481	4.19e-03	5.03e-04	19.44	2.3	1.57e-04	1.88e-05	0.0	0.0
20	4.383	0.228	0.454	0.29	3.49e-02	40.68	4.9	0.12	1.44e-02	0.0	0.0
21	4.786	0.209	0.419	22.14	2.7	0.0	0.0	1.85e-05	2.22e-06	0.0	0.0
22	5.736	0.174	0.405	0.25	3.03e-02	1.53	0.2	0.07	8.35e-03	0.0	0.0
23	5.940	0.168	0.395	1.62	0.2	9.58	1.1	5.76e-06	0.0	0.0	0.0
24	6.248	0.160	0.382	16.15	1.9	1.26	0.2	0.33	3.97e-02	0.0	0.0
25	6.523	0.153	0.371	8.25	1.0	0.24	2.89e-02	0.11	1.31e-02	0.0	0.0
26	6.741	0.148	0.362	17.88	2.1	0.15	1.82e-02	0.02	2.18e-03	0.0	0.0
27	7.005	0.143	0.353	32.02	3.8	1.10	0.1	0.07	8.21e-03	0.0	0.0
28	7.142	0.140	0.348	2.18	0.3	3.61	0.4	1.16e-04	1.40e-05	0.0	0.0
29	7.352	0.136	0.342	19.26	2.3	0.02	1.89e-03	0.05	5.91e-03	0.0	0.0
30	7.796	0.128	0.329	1.66	0.2	10.67	1.3	4.23e-03	5.07e-04	0.0	0.0
31	8.122	0.123	0.321	6.38	0.8	27.92	3.3	0.07	8.18e-03	0.0	0.0
32	8.223	0.122	0.318	6.14	0.7	1.06	0.1	0.50	6.04e-02	0.0	0.0
33	8.438	0.119	0.315	4.31	0.5	3.43	0.4	0.60	7.20e-02	0.0	0.0
34	8.719	0.115	0.314	5.14e-03	6.16e-04	5.98	0.7	0.13	1.60e-02	0.0	0.0
35	8.921	0.112	0.314	3.32	0.4	15.00	1.8	2.11e-06	0.0	0.0	0.0
36	9.244	0.108	0.313	4.88	0.6	4.37	0.5	0.12	1.39e-02	0.0	0.0
37	9.522	0.105	0.312	0.84	0.1	3.83e-04	4.59e-05	0.0	0.0	0.0	0.0
38	10.700	0.093	0.297	0.93	0.1	1.15	0.1	0.54	6.46e-02	0.0	0.0
39	10.746	0.093	0.296	9.18	1.1	0.10	1.22e-02	1.30	0.2	0.0	0.0
40	10.918	0.092	0.293	0.05	5.94e-03	8.52e-03	1.02e-03	5.00e-03	6.00e-04	0.0	0.0
41	11.346	0.088	0.285	6.38	0.8	7.62e-03	9.13e-04	5.59	0.7	0.0	0.0
42	11.615	0.086	0.281	2.13e-03	2.56e-04	5.46	0.7	1.87e-04	2.25e-05	0.0	0.0
43	12.163	0.082	0.272	5.22e-05	6.25e-06	3.54	0.4	3.47e-03	4.16e-04	0.0	0.0
44	12.465	0.080	0.268	0.44	5.33e-02	0.12	1.40e-02	34.63	4.2	0.0	0.0
45	12.915	0.077	0.262	19.00	2.3	13.69	1.6	0.81	9.77e-02	0.0	0.0
46	13.166	0.076	0.259	7.46	0.9	1.15e-04	1.37e-05	1.67e-03	2.00e-04	0.0	0.0
47	13.409	0.075	0.256	1.47e-03	1.77e-04	0.31	3.74e-02	0.24	2.83e-02	0.0	0.0
48	13.700	0.073	0.253	0.68	8.21e-02	1.64	0.2	0.15	1.80e-02	0.0	0.0
49	14.115	0.071	0.248	0.53	6.39e-02	4.69	0.6	0.31	3.69e-02	0.0	0.0
50	14.303	0.070	0.246	1.00	0.1	2.49	0.3	0.01	1.76e-03	0.0	0.0
51	14.624	0.068	0.243	1.74	0.2	2.10	0.3	1.21	0.1	0.0	0.0
52	14.714	0.068	0.242	0.01	1.52e-03	0.32	3.80e-02	4.37	0.5	0.0	0.0
53	14.954	0.067	0.240	0.39	4.73e-02	0.02	1.94e-03	0.02	2.17e-03	0.0	0.0
54	15.260	0.066	0.237	1.90	0.2	1.27e-03	1.52e-04	0.02	2.05e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
55	15.302	0.065	0.237	0.02	2.21e-03	0.54	6.42e-02	1.05	0.1	0.0	0.0
56	15.347	0.065	0.236	0.10	1.21e-02	0.63	7.56e-02	0.03	3.92e-03	0.0	0.0
57	15.484	0.065	0.235	2.64	0.3	0.01	1.73e-03	0.01	1.49e-03	0.0	0.0
58	15.564	0.064	0.234	1.87	0.2	1.89	0.2	0.01	1.43e-03	0.0	0.0
59	15.653	0.064	0.234	1.21	0.1	4.43	0.5	2.54e-03	3.04e-04	0.0	0.0
60	15.898	0.063	0.232	5.21	0.6	8.17	1.0	0.14	1.63e-02	0.0	0.0
61	16.155	0.062	0.229	0.16	1.97e-02	2.37	0.3	0.03	3.71e-03	0.0	0.0
62	16.334	0.061	0.228	1.08	0.1	5.48e-03	6.58e-04	1.67e-03	2.01e-04	0.0	0.0
63	16.591	0.060	0.226	0.25	3.00e-02	0.28	3.37e-02	9.90	1.2	0.0	0.0
64	16.660	0.060	0.226	3.25	0.4	7.54	0.9	1.20	0.1	0.0	0.0
65	17.106	0.058	0.224	0.27	3.23e-02	7.54e-03	9.04e-04	0.20	2.43e-02	0.0	0.0
66	17.179	0.058	0.224	2.44	0.3	1.36	0.2	1.44	0.2	0.0	0.0
67	17.669	0.057	0.222	0.48	5.79e-02	0.01	1.56e-03	10.63	1.3	0.0	0.0
68	18.008	0.056	0.221	1.89	0.2	3.13	0.4	0.13	1.58e-02	0.0	0.0
69	18.313	0.055	0.220	0.46	5.48e-02	1.71e-04	2.05e-05	0.01	1.46e-03	0.0	0.0
70	18.475	0.054	0.220	0.43	5.17e-02	0.02	2.60e-03	0.02	2.17e-03	0.0	0.0
71	18.824	0.053	0.219	0.85	0.1	2.23	0.3	0.60	7.24e-02	0.0	0.0
72	18.927	0.053	0.218	0.14	1.70e-02	3.67	0.4	5.39	0.6	0.0	0.0
73	19.268	0.052	0.217	2.11	0.3	0.14	1.71e-02	7.32	0.9	0.0	0.0
74	19.434	0.051	0.217	3.36	0.4	1.68	0.2	4.88	0.6	0.0	0.0
75	19.650	0.051	0.216	0.50	6.05e-02	0.23	2.76e-02	1.18	0.1	0.0	0.0
76	20.203	0.049	0.215	0.13	1.55e-02	0.09	1.13e-02	0.22	2.63e-02	0.0	0.0
77	20.933	0.048	0.213	0.81	9.67e-02	1.11	0.1	7.03	0.8	0.0	0.0
78	21.332	0.047	0.212	0.17	2.02e-02	0.05	5.51e-03	1.46	0.2	0.0	0.0
79	21.944	0.046	0.211	0.60	7.19e-02	0.84	0.1	7.40	0.9	0.0	0.0
80	22.263	0.045	0.210	7.75e-03	9.29e-04	0.20	2.41e-02	1.44	0.2	0.0	0.0
81	23.096	0.043	0.209	0.10	1.19e-02	0.40	4.74e-02	3.28	0.4	0.0	0.0
82	23.276	0.043	0.208	0.57	6.83e-02	0.02	2.24e-03	2.38	0.3	0.0	0.0
83	23.449	0.043	0.208	2.80	0.3	4.76e-03	5.71e-04	15.79	1.9	0.0	0.0
84	24.402	0.041	0.206	0.17	2.00e-02	3.24e-03	3.89e-04	5.12	0.6	0.0	0.0
85	25.005	0.040	0.205	0.02	1.87e-03	1.90	0.2	0.09	1.09e-02	0.0	0.0
86	25.304	0.040	0.205	0.61	7.26e-02	1.09e-06	0.0	7.52e-03	9.02e-04	0.0	0.0
87	25.399	0.039	0.205	1.80e-04	2.15e-05	0.16	1.98e-02	0.22	2.65e-02	0.0	0.0
88	25.737	0.039	0.205	3.72	0.4	0.05	5.69e-03	0.11	1.31e-02	0.0	0.0
89	25.890	0.039	0.205	0.22	2.69e-02	2.80e-06	0.0	0.01	1.35e-03	0.0	0.0
90	26.298	0.038	0.205	0.05	5.97e-03	8.47e-04	1.02e-04	1.34	0.2	0.0	0.0
91	26.355	0.038	0.205	0.01	1.65e-03	0.01	1.64e-03	2.50	0.3	0.0	0.0
92	27.100	0.037	0.205	0.04	4.66e-03	0.04	5.16e-03	3.23	0.4	0.0	0.0
93	27.382	0.037	0.205	1.08	0.1	8.38e-05	1.00e-05	0.08	9.00e-03	0.0	0.0
94	28.131	0.036	0.205	2.40e-04	2.88e-05	3.55e-04	4.25e-05	8.17	1.0	0.0	0.0
95	28.251	0.035	0.205	1.28e-04	1.53e-05	6.20e-03	7.44e-04	52.98	6.4	0.0	0.0
96	28.637	0.035	0.204	0.37	4.46e-02	3.07e-03	3.69e-04	0.21	2.56e-02	0.0	0.0
97	29.470	0.034	0.204	0.02	2.86e-03	0.07	8.56e-03	2.73e-05	3.28e-06	0.0	0.0
98	30.316	0.033	0.204	0.33	3.92e-02	1.29	0.2	1.15e-04	1.38e-05	0.0	0.0
99	30.807	0.032	0.204	3.12	0.4	0.13	1.51e-02	0.01	1.58e-03	0.0	0.0
100	31.784	0.031	0.204	0.10	1.25e-02	0.13	1.58e-02	1.30	0.2	0.0	0.0
101	31.819	0.031	0.204	0.09	1.08e-02	0.06	7.10e-03	2.91	0.3	0.0	0.0
102	33.119	0.030	0.204	4.03	0.5	6.72e-03	8.05e-04	0.47	5.61e-02	0.0	0.0
103	34.366	0.029	0.204	4.08	0.5	0.09	1.06e-02	0.32	3.79e-02	0.0	0.0
104	34.494	0.029	0.204	0.04	5.11e-03	5.22e-03	6.25e-04	11.46	1.4	0.0	0.0
105	36.258	0.028	0.203	6.28e-04	7.53e-05	2.16e-03	2.59e-04	5.28	0.6	0.0	0.0
106	36.327	0.028	0.203	1.60e-03	1.92e-04	0.13	1.54e-02	0.72	8.69e-02	0.0	0.0
107	36.715	0.027	0.203	0.16	1.87e-02	1.06e-05	1.27e-06	0.02	2.15e-03	0.0	0.0
108	36.955	0.027	0.203	3.16e-04	3.78e-05	2.51e-04	3.01e-05	26.63	3.2	0.0	0.0
109	37.278	0.027	0.203	1.71e-03	2.05e-04	0.42	4.98e-02	0.09	1.06e-02	0.0	0.0
110	37.396	0.027	0.203	6.21e-04	7.44e-05	0.03	3.31e-03	4.95e-03	5.93e-04	0.0	0.0
111	37.678	0.027	0.203	0.02	2.99e-03	0.01	1.64e-03	1.85e-04	2.22e-05	0.0	0.0
112	38.134	0.026	0.203	0.02	2.62e-03	5.57e-04	6.68e-05	0.01	1.20e-03	0.0	0.0
113	41.227	0.024	0.203	1.01e-03	1.22e-04	8.20e-04	9.83e-05	58.23	7.0	0.0	0.0
114	41.381	0.024	0.203	2.31e-05	2.77e-06	6.00e-03	7.20e-04	1.38e-04	1.66e-05	0.0	0.0
115	41.732	0.024	0.203	0.01	1.74e-03	0.02	2.67e-03	0.25	3.00e-02	0.0	0.0
116	41.770	0.024	0.203	0.04	4.33e-03	0.02	1.82e-03	17.71	2.1	0.0	0.0
117	41.995	0.024	0.203	4.65e-03	5.58e-04	4.42e-03	5.30e-04	0.01	1.36e-03	0.0	0.0
118	42.378	0.024	0.203	2.35e-04	2.81e-05	0.03	4.00e-03	0.03	3.95e-03	0.0	0.0
119	42.601	0.023	0.203	5.33e-03	6.39e-04	8.61e-04	1.03e-04	8.60e-03	1.03e-03	0.0	0.0
120	44.162	0.023	0.203	0.22	2.68e-02	2.53	0.3	2.33e-03	2.79e-04	0.0	0.0
121	45.605	0.022	0.202	1.26e-03	1.51e-04	4.89e-03	5.87e-04	0.07	7.99e-03	0.0	0.0
122	46.393	0.022	0.202	6.89e-05	8.26e-06	0.02	2.54e-03	47.04	5.6	0.0	0.0
123	46.532	0.021	0.202	3.65e-03	4.38e-04	2.78e-03	3.33e-04	2.71	0.3	0.0	0.0
124	46.883	0.021	0.202	7.35e-04	8.82e-05	3.77e-03	4.52e-04	11.85	1.4	0.0	0.0
125	47.132	0.021	0.202	0.24	2.82e-02	1.34	0.2	0.95	0.1	0.0	0.0
126	47.418	0.021	0.202	3.82e-03	4.59e-04	0.05	6.41e-03	9.67	1.2	0.0	0.0
127	48.627	0.021	0.202	1.30e-06	0.0	8.09	1.0	2.79e-03	3.34e-04	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
128	49.257	0.020	0.202	6.32e-05	7.57e-06	8.87e-03	1.06e-03	101.43	12.2	0.0	0.0
129	49.683	0.020	0.202	5.81e-04	6.97e-05	6.63e-03	7.95e-04	1.56	0.2	0.0	0.0
130	50.740	0.020	0.202	9.10e-03	1.09e-03	0.11	1.33e-02	28.78	3.5	0.0	0.0
131	52.820	0.019	0.202	0.0	0.0	2.41e-06	0.0	37.23	4.5	0.0	0.0
132	53.439	0.019	0.202	2.67e-03	3.21e-04	0.02	2.84e-03	1.28	0.2	0.0	0.0
133	54.065	0.018	0.202	1.58e-06	0.0	3.54e-03	4.24e-04	16.70	2.0	0.0	0.0
134	54.247	0.018	0.202	2.89e-03	3.47e-04	0.07	7.99e-03	3.46e-03	4.15e-04	0.0	0.0
135	54.265	0.018	0.202	0.11	1.34e-02	1.00e-04	1.20e-05	5.57e-03	6.67e-04	0.0	0.0
136	54.323	0.018	0.202	3.24	0.4	1.27e-05	1.52e-06	8.03	1.0	0.0	0.0
137	54.546	0.018	0.202	3.99e-04	4.79e-05	9.53e-05	1.14e-05	0.02	2.73e-03	0.0	0.0
138	54.700	0.018	0.202	0.10	1.20e-02	2.37e-03	2.85e-04	0.27	3.22e-02	0.0	0.0
139	54.907	0.018	0.202	2.09	0.3	1.32e-06	0.0	9.13	1.1	0.0	0.0
140	54.996	0.018	0.202	2.95e-03	3.54e-04	0.03	3.31e-03	27.60	3.3	0.0	0.0
141	55.353	0.018	0.202	4.60e-05	5.51e-06	1.48e-04	1.77e-05	5.03e-03	6.03e-04	0.0	0.0
142	58.241	0.017	0.202	1.63e-05	1.95e-06	7.22	0.9	5.18	0.6	0.0	0.0
143	58.960	0.017	0.202	0.05	6.39e-03	3.01e-03	3.60e-04	12.55	1.5	0.0	0.0
144	59.042	0.017	0.202	0.08	9.62e-03	5.51e-03	6.60e-04	21.02	2.5	0.0	0.0
145	59.442	0.017	0.202	4.19e-04	5.02e-05	7.00e-04	8.39e-05	3.61e-03	4.33e-04	0.0	0.0
146	59.911	0.017	0.202	7.79	0.9	0.0	0.0	5.07	0.6	0.0	0.0
147	60.697	0.016	0.202	0.03	3.01e-03	4.26e-04	5.11e-05	3.43	0.4	0.0	0.0
148	60.699	0.016	0.202	4.95e-03	5.94e-04	2.91e-03	3.49e-04	20.92	2.5	0.0	0.0
149	61.066	0.016	0.202	5.41e-03	6.49e-04	2.28e-04	2.74e-05	0.04	4.50e-03	0.0	0.0
150	61.693	0.016	0.202	2.32e-04	2.78e-05	0.0	0.0	14.76	1.8	0.0	0.0
151	61.730	0.016	0.202	3.62e-05	4.33e-06	2.67e-04	3.20e-05	12.77	1.5	0.0	0.0
152	62.371	0.016	0.202	0.88	0.1	0.03	4.04e-03	5.08	0.6	0.0	0.0
153	63.120	0.016	0.202	0.0	0.0	0.23	2.81e-02	0.02	2.96e-03	0.0	0.0
154	65.044	0.015	0.202	0.19	2.28e-02	1.20e-06	0.0	0.03	3.34e-03	0.0	0.0
155	65.307	0.015	0.202	0.06	7.21e-03	7.52e-04	9.02e-05	0.04	4.57e-03	0.0	0.0
156	66.037	0.015	0.202	0.82	9.87e-02	0.04	4.59e-03	1.15	0.1	0.0	0.0
157	69.097	0.014	0.202	2.40e-06	0.0	7.41e-04	8.88e-05	0.13	1.50e-02	0.0	0.0
158	70.051	0.014	0.202	0.11	1.27e-02	1.15e-03	1.37e-04	0.02	1.93e-03	0.0	0.0
159	70.227	0.014	0.202	1.10e-04	1.32e-05	0.02	1.84e-03	0.02	2.38e-03	0.0	0.0
160	70.289	0.014	0.202	3.54e-04	4.24e-05	2.43e-03	2.92e-04	0.05	5.59e-03	0.0	0.0
161	70.931	0.014	0.202	9.20e-04	1.10e-04	0.02	2.81e-03	0.08	9.73e-03	0.0	0.0
162	72.924	0.014	0.202	0.03	3.44e-03	5.67e-04	6.80e-05	0.04	4.67e-03	0.0	0.0
163	73.405	0.014	0.202	1.99e-03	2.39e-04	1.46e-04	1.75e-05	0.49	5.89e-02	0.0	0.0
164	73.734	0.014	0.202	0.01	1.32e-03	8.20e-03	9.84e-04	0.44	5.28e-02	0.0	0.0
165	75.595	0.013	0.202	6.58e-04	7.89e-05	0.08	9.53e-03	0.02	2.33e-03	0.0	0.0
166	76.135	0.013	0.202	3.60e-03	4.32e-04	5.18e-03	6.22e-04	0.31	3.77e-02	0.0	0.0
167	78.631	0.013	0.202	2.23e-03	2.67e-04	0.19	2.31e-02	0.06	7.03e-03	0.0	0.0
168	79.225	0.013	0.202	1.27e-03	1.53e-04	6.03e-05	7.23e-06	0.46	5.52e-02	0.0	0.0
169	79.613	0.013	0.202	1.81e-03	2.17e-04	3.94e-03	4.73e-04	1.04	0.1	0.0	0.0
170	79.951	0.013	0.202	3.38e-05	4.05e-06	2.87e-03	3.45e-04	14.57	1.7	0.0	0.0
171	82.570	0.012	0.202	0.20	2.36e-02	1.42e-03	1.70e-04	0.39	4.72e-02	0.0	0.0
172	83.142	0.012	0.202	1.93e-03	2.31e-04	0.27	3.22e-02	0.92	0.1	0.0	0.0
173	83.665	0.012	0.202	4.39e-04	5.26e-05	0.03	3.64e-03	2.41	0.3	0.0	0.0
174	84.860	0.012	0.202	2.86e-04	3.43e-05	2.36e-03	2.83e-04	1.27	0.2	0.0	0.0
175	87.778	0.011	0.202	3.88e-03	4.66e-04	1.73e-04	2.07e-05	0.02	2.54e-03	0.0	0.0
176	89.054	0.011	0.202	2.40e-06	0.0	0.01	1.31e-03	2.30	0.3	0.0	0.0
177	89.559	0.011	0.202	7.75e-05	9.30e-06	0.26	3.07e-02	0.55	6.65e-02	0.0	0.0
178	91.748	0.011	0.202	4.30e-03	5.16e-04	0.07	7.80e-03	0.02	2.68e-03	0.0	0.0
179	92.158	0.011	0.202	0.05	5.75e-03	4.11e-03	4.92e-04	0.01	1.67e-03	0.0	0.0
180	94.211	0.011	0.202	9.04e-04	1.08e-04	8.20e-04	9.84e-05	0.51	6.11e-02	0.0	0.0
181	96.032	0.010	0.202	2.64e-04	3.17e-05	0.33	3.93e-02	0.17	2.00e-02	0.0	0.0
182	98.429	0.010	0.202	0.02	1.94e-03	6.88e-03	8.24e-04	0.23	2.73e-02	0.0	0.0
183	99.738	0.010	0.202	7.15e-04	8.57e-05	0.03	3.21e-03	1.65	0.2	0.0	0.0
184	100.763	0.010	0.202	1.82e-03	2.18e-04	4.55e-03	5.45e-04	0.67	8.02e-02	0.0	0.0
185	105.099	0.010	0.202	3.76e-04	4.51e-05	1.23e-03	1.48e-04	2.21	0.3	0.0	0.0
186	106.493	0.009	0.202	3.48e-04	4.17e-05	6.15e-04	7.38e-05	5.03	0.6	0.0	0.0
187	107.986	0.009	0.202	4.05e-03	4.85e-04	5.34e-04	6.40e-05	0.87	0.1	0.0	0.0
188	109.584	0.009	0.202	2.34e-05	2.81e-06	0.07	8.39e-03	0.04	4.86e-03	0.0	0.0
189	113.424	0.009	0.202	4.10e-04	4.92e-05	2.59e-04	3.11e-05	0.76	9.08e-02	0.0	0.0
190	116.999	0.009	0.202	1.58e-06	0.0	0.01	1.54e-03	0.04	4.47e-03	0.0	0.0
191	124.081	0.008	0.202	0.04	4.78e-03	3.67e-04	4.40e-05	0.02	2.37e-03	0.0	0.0
192	126.596	0.008	0.202	0.50	5.96e-02	0.06	6.77e-03	1.87e-05	2.24e-06	0.0	0.0
193	132.332	0.008	0.202	8.72e-03	1.05e-03	8.91e-03	1.07e-03	0.42	5.09e-02	0.0	0.0
194	135.337	0.007	0.202	8.78e-03	1.05e-03	6.55e-03	7.85e-04	3.39	0.4	0.0	0.0
195	139.073	0.007	0.202	0.29	3.44e-02	0.25	3.03e-02	3.18e-03	3.82e-04	0.0	0.0
196	146.215	0.007	0.202	4.37e-03	5.24e-04	9.01e-03	1.08e-03	16.85	2.0	0.0	0.0
197	148.882	0.007	0.202	0.09	1.11e-02	0.10	1.15e-02	0.07	8.21e-03	0.0	0.0
198	150.626	0.007	0.202	0.14	1.67e-02	0.02	2.44e-03	0.58	6.99e-02	0.0	0.0
199	154.420	0.006	0.202	0.13	1.60e-02	0.02	1.99e-03	6.71	0.8	0.0	0.0
200	155.716	0.006	0.202	0.17	2.08e-02	0.08	9.19e-03	3.32	0.4	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
201	170.444	0.006	0.202	0.23	2.79e-02	0.08	9.41e-03	0.46	5.56e-02	0.0	0.0
202	173.897	0.006	0.202	5.11e-05	6.12e-06	9.41e-06	1.13e-06	10.96	1.3	0.0	0.0
203	176.806	0.006	0.202	0.03	3.68e-03	0.10	1.22e-02	7.84e-06	0.0	0.0	0.0
204	186.898	0.005	0.202	0.09	1.08e-02	0.03	3.81e-03	0.40	4.74e-02	0.0	0.0
205	192.469	0.005	0.202	6.00e-04	7.19e-05	0.03	3.02e-03	1.26	0.2	0.0	0.0
206	194.554	0.005	0.202	0.05	5.43e-03	0.04	4.24e-03	0.61	7.27e-02	0.0	0.0
207	213.039	0.005	0.202	0.05	6.01e-03	0.01	1.39e-03	0.05	6.27e-03	0.0	0.0
208	219.341	0.005	0.202	4.66e-03	5.59e-04	0.07	8.54e-03	1.71e-03	2.05e-04	0.0	0.0
209	220.784	0.005	0.202	5.15e-04	6.17e-05	6.71e-04	8.05e-05	4.45	0.5	0.0	0.0
210	260.551	0.004	0.202	0.05	6.56e-03	0.05	5.50e-03	0.03	3.48e-03	0.0	0.0
211	263.897	0.004	0.202	3.73e-03	4.47e-04	0.05	5.70e-03	0.28	3.38e-02	0.0	0.0
212	265.546	0.004	0.202	1.32e-03	1.59e-04	3.81e-03	4.56e-04	2.35	0.3	0.0	0.0
213	290.562	0.003	0.202	3.02e-03	3.62e-04	0.07	8.15e-03	1.11e-03	1.33e-04	0.0	0.0
214	304.050	0.003	0.202	0.13	1.61e-02	8.48e-04	1.02e-04	3.05e-03	3.66e-04	0.0	0.0
215	334.211	0.003	0.202	2.17e-03	2.60e-04	1.87e-06	0.0	0.79	9.51e-02	0.0	0.0
216	358.137	0.003	0.202	0.01	1.36e-03	1.92e-04	2.30e-05	0.08	1.01e-02	0.0	0.0
217	385.392	0.003	0.202	2.38e-04	2.86e-05	2.11e-03	2.53e-04	1.34e-03	1.60e-04	0.0	0.0
218	414.062	0.002	0.202	1.03e-04	1.23e-05	1.69e-04	2.02e-05	0.89	0.1	0.0	0.0
219	547.766	0.002	0.202	8.11e-04	9.72e-05	7.17e-04	8.60e-05	0.27	3.26e-02	0.0	0.0
220	559.019	0.002	0.202	3.92e-03	4.71e-04	6.96e-04	8.35e-05	0.15	1.82e-02	0.0	0.0
221	605.067	0.002	0.202	1.46e-04	1.75e-05	3.59e-05	4.30e-06	0.55	6.65e-02	0.0	0.0
222	821.320	0.001	0.202	2.04e-04	2.45e-05	5.40e-04	6.48e-05	3.15e-03	3.78e-04	0.0	0.0
223	915.271	0.001	0.202	5.66e-04	6.79e-05	2.85e-05	3.42e-06	0.08	9.13e-03	0.0	0.0
224	957.242	0.001	0.202	6.01e-05	7.21e-06	9.31e-06	1.12e-06	0.28	3.37e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
18	Edk	CDC=Ed (dinamico SL CO) alfa=0.0 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.343 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	0.0	0.40	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	0.0	0.54	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	0.0	0.54	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	0.0	0.30	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	0.0	0.54	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	0.0	0.38	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	0.0	0.08	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	0.0	0.08	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.861	1.161	0.208	9.51	1.1	4.90e-04	5.87e-05	0.0	0.0	0.0	0.0
2	0.864	1.157	0.207	0.03	3.55e-03	0.0	0.0	5.36e-06	0.0	0.0	0.0
3	1.027	0.974	0.227	1.98e-03	2.37e-04	11.57	1.4	1.17e-05	1.40e-06	0.0	0.0
4	1.032	0.969	0.227	1.41e-04	1.69e-05	0.03	3.16e-03	1.34e-05	1.60e-06	0.0	0.0
5	1.325	0.755	0.281	4.07e-03	4.88e-04	11.19	1.3	1.48e-06	0.0	0.0	0.0
6	1.327	0.754	0.282	1.20e-04	1.43e-05	0.03	3.76e-03	8.08e-06	0.0	0.0	0.0
7	1.418	0.705	0.330	9.81	1.2	8.37e-03	1.00e-03	0.0	0.0	0.0	0.0
8	1.420	0.704	0.331	0.03	3.77e-03	6.58e-06	0.0	6.19e-06	0.0	0.0	0.0
9	1.512	0.662	0.359	2.14e-06	0.0	3.66	0.4	0.0	0.0	0.0	0.0
10	1.589	0.629	0.397	6.06	0.7	2.21e-06	0.0	1.43e-05	1.71e-06	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
11	1.597	0.626	0.401	0.01	1.47e-03	1.40e-04	1.68e-05	1.37e-05	1.64e-06	0.0	0.0
12	2.221	0.450	0.441	1.26	0.2	12.60	1.5	2.46e-04	2.94e-05	0.0	0.0
13	2.359	0.424	0.470	183.63	22.0	340.08	40.8	0.04	4.85e-03	0.0	0.0
14	2.912	0.343	0.577	267.98	32.1	179.85	21.6	0.02	2.09e-03	0.0	0.0
15	3.536	0.283	0.606	13.68	1.6	0.49	5.87e-02	2.73e-03	3.28e-04	0.0	0.0
16	3.577	0.280	0.601	66.91	8.0	19.43	2.3	1.40e-04	1.68e-05	0.0	0.0
17	4.084	0.245	0.527	0.52	6.28e-02	0.03	4.19e-03	0.03	3.08e-03	0.0	0.0
18	4.258	0.235	0.481	3.42e-03	4.10e-04	18.09	2.2	2.19e-04	2.63e-05	0.0	0.0
19	4.274	0.234	0.478	0.04	4.99e-03	2.29	0.3	1.16e-03	1.39e-04	0.0	0.0
20	4.379	0.228	0.455	0.15	1.74e-02	45.56	5.5	0.12	1.40e-02	0.0	0.0
21	5.176	0.193	0.416	24.26	2.9	0.03	3.35e-03	0.23	2.73e-02	0.0	0.0
22	5.588	0.179	0.412	16.37	2.0	1.21e-04	1.45e-05	1.80e-05	2.15e-06	0.0	0.0
23	5.839	0.171	0.400	4.10e-03	4.92e-04	0.16	1.96e-02	2.29e-03	2.74e-04	0.0	0.0
24	5.946	0.168	0.395	3.71	0.4	10.33	1.2	3.98e-03	4.77e-04	0.0	0.0
25	6.399	0.156	0.376	2.28	0.3	1.39	0.2	4.49e-03	5.39e-04	0.0	0.0
26	6.827	0.146	0.359	1.00	0.1	0.06	6.64e-03	1.48e-03	1.77e-04	0.0	0.0
27	6.990	0.143	0.353	28.70	3.4	1.01	0.1	0.04	4.65e-03	0.0	0.0
28	7.200	0.139	0.346	0.14	1.63e-02	4.69	0.6	1.40e-03	1.68e-04	0.0	0.0
29	7.388	0.135	0.340	42.71	5.1	0.76	9.11e-02	0.13	1.61e-02	0.0	0.0
30	7.837	0.128	0.328	0.14	1.68e-02	24.16	2.9	0.02	2.50e-03	0.0	0.0
31	8.065	0.124	0.322	1.63	0.2	2.84	0.3	0.08	9.09e-03	0.0	0.0
32	8.349	0.120	0.316	0.35	4.19e-02	0.84	0.1	1.03	0.1	0.0	0.0
33	8.412	0.119	0.315	15.49	1.9	9.75	1.2	0.08	1.02e-02	0.0	0.0
34	8.806	0.114	0.314	2.94	0.4	25.01	3.0	0.10	1.20e-02	0.0	0.0
35	8.989	0.111	0.314	3.98	0.5	0.04	5.39e-03	0.11	1.32e-02	0.0	0.0
36	9.404	0.106	0.313	1.08	0.1	2.05	0.2	7.44e-03	8.92e-04	0.0	0.0
37	9.856	0.101	0.312	7.00	0.8	0.25	2.96e-02	0.93	0.1	0.0	0.0
38	10.044	0.100	0.310	4.92	0.6	0.02	1.81e-03	2.18	0.3	0.0	0.0
39	10.181	0.098	0.307	6.11	0.7	0.19	2.27e-02	1.68	0.2	0.0	0.0
40	10.468	0.096	0.301	6.02e-04	7.21e-05	0.58	6.93e-02	7.19e-03	8.62e-04	0.0	0.0
41	10.818	0.092	0.295	2.06	0.2	2.13	0.3	0.02	2.01e-03	0.0	0.0
42	11.615	0.086	0.281	2.55e-04	3.06e-05	5.51	0.7	8.46e-04	1.01e-04	0.0	0.0
43	12.166	0.082	0.272	0.04	4.72e-03	4.15	0.5	4.29e-03	5.14e-04	0.0	0.0
44	12.425	0.080	0.268	15.70	1.9	6.61	0.8	9.23	1.1	0.0	0.0
45	12.492	0.080	0.267	6.03	0.7	2.62	0.3	26.50	3.2	0.0	0.0
46	13.128	0.076	0.259	3.92	0.5	0.44	5.30e-02	2.69e-03	3.23e-04	0.0	0.0
47	13.415	0.075	0.256	0.39	4.68e-02	1.39	0.2	0.27	3.28e-02	0.0	0.0
48	13.599	0.074	0.254	0.72	8.66e-02	7.45	0.9	3.19e-04	3.83e-05	0.0	0.0
49	13.880	0.072	0.251	0.40	4.84e-02	2.00	0.2	0.11	1.32e-02	0.0	0.0
50	14.317	0.070	0.246	0.02	2.60e-03	0.15	1.76e-02	0.54	6.51e-02	0.0	0.0
51	14.515	0.069	0.244	4.71e-03	5.64e-04	2.89	0.3	0.14	1.69e-02	0.0	0.0
52	14.715	0.068	0.242	4.81e-03	5.77e-04	0.35	4.24e-02	5.33	0.6	0.0	0.0
53	14.906	0.067	0.240	0.40	4.77e-02	0.08	9.85e-03	0.02	2.78e-03	0.0	0.0
54	15.141	0.066	0.238	0.36	4.30e-02	0.03	3.11e-03	0.15	1.86e-02	0.0	0.0
55	15.302	0.065	0.237	0.03	3.51e-03	0.61	7.35e-02	1.76	0.2	0.0	0.0
56	15.349	0.065	0.236	0.12	1.38e-02	0.01	1.26e-03	6.36	0.8	0.0	0.0
57	15.401	0.065	0.236	0.07	8.44e-03	0.48	5.79e-02	0.88	0.1	0.0	0.0
58	15.541	0.064	0.235	0.98	0.1	5.60	0.7	0.01	1.29e-03	0.0	0.0
59	15.635	0.064	0.234	3.14	0.4	1.67	0.2	0.01	1.26e-03	0.0	0.0
60	15.829	0.063	0.232	4.15	0.5	2.01	0.2	2.10e-03	2.52e-04	0.0	0.0
61	16.091	0.062	0.230	0.92	0.1	6.56e-04	7.86e-05	2.48e-04	2.97e-05	0.0	0.0
62	16.154	0.062	0.229	0.38	4.60e-02	5.59	0.7	0.08	9.29e-03	0.0	0.0
63	16.336	0.061	0.228	1.14	0.1	0.31	3.74e-02	0.01	1.29e-03	0.0	0.0
64	16.593	0.060	0.226	0.08	9.82e-03	0.56	6.71e-02	10.50	1.3	0.0	0.0
65	16.742	0.060	0.225	2.71	0.3	10.43	1.3	0.80	9.60e-02	0.0	0.0
66	16.774	0.060	0.225	6.19	0.7	0.42	5.08e-02	0.02	2.13e-03	0.0	0.0
67	17.498	0.057	0.223	0.89	0.1	1.11	0.1	0.19	2.25e-02	0.0	0.0
68	17.726	0.056	0.222	1.46	0.2	0.09	1.04e-02	1.26	0.2	0.0	0.0
69	17.963	0.056	0.221	0.27	3.30e-02	2.90	0.3	2.93e-05	3.51e-06	0.0	0.0
70	18.272	0.055	0.220	0.28	3.30e-02	0.03	3.28e-03	0.06	6.97e-03	0.0	0.0
71	18.423	0.054	0.220	6.45	0.8	0.27	3.20e-02	1.60	0.2	0.0	0.0
72	18.554	0.054	0.219	2.64	0.3	0.03	3.72e-03	0.06	7.31e-03	0.0	0.0
73	18.887	0.053	0.218	1.05	0.1	5.14	0.6	5.45	0.7	0.0	0.0
74	18.931	0.053	0.218	1.16	0.1	0.25	3.03e-02	2.61	0.3	0.0	0.0
75	18.973	0.053	0.218	2.49	0.3	0.79	9.47e-02	0.69	8.22e-02	0.0	0.0
76	19.748	0.051	0.216	1.03	0.1	1.05	0.1	0.08	9.20e-03	0.0	0.0
77	20.317	0.049	0.215	0.14	1.68e-02	0.07	8.50e-03	3.36	0.4	0.0	0.0
78	20.521	0.049	0.214	0.26	3.12e-02	0.09	1.11e-02	17.79	2.1	0.0	0.0
79	21.792	0.046	0.211	0.26	3.16e-02	1.49	0.2	1.00	0.1	0.0	0.0
80	22.111	0.045	0.211	0.27	3.26e-02	0.44	5.22e-02	3.37	0.4	0.0	0.0
81	22.382	0.045	0.210	2.31e-03	2.77e-04	0.29	3.44e-02	20.14	2.4	0.0	0.0
82	23.168	0.043	0.208	2.23e-03	2.67e-04	0.11	1.30e-02	10.93	1.3	0.0	0.0
83	23.859	0.042	0.207	0.53	6.37e-02	8.81e-03	1.06e-03	0.53	6.36e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
84	23.937	0.042	0.207	1.22	0.1	7.31e-03	8.77e-04	1.46e-03	1.75e-04	0.0	0.0
85	24.883	0.040	0.205	0.05	6.05e-03	1.94	0.2	0.02	1.84e-03	0.0	0.0
86	25.292	0.040	0.205	0.06	7.65e-03	1.19e-03	1.43e-04	0.01	1.31e-03	0.0	0.0
87	25.399	0.039	0.205	8.67e-04	1.04e-04	0.17	2.00e-02	0.22	2.61e-02	0.0	0.0
88	25.611	0.039	0.205	0.47	5.63e-02	1.10e-03	1.32e-04	0.01	1.52e-03	0.0	0.0
89	25.813	0.039	0.205	0.05	6.48e-03	0.04	4.61e-03	3.28	0.4	0.0	0.0
90	26.298	0.038	0.205	5.01e-03	6.00e-04	4.49e-03	5.39e-04	0.02	1.99e-03	0.0	0.0
91	26.377	0.038	0.205	0.02	2.98e-03	0.02	1.92e-03	1.22	0.1	0.0	0.0
92	26.904	0.037	0.205	1.43	0.2	1.91e-03	2.29e-04	0.12	1.39e-02	0.0	0.0
93	27.250	0.037	0.205	2.30	0.3	0.03	3.91e-03	0.04	4.68e-03	0.0	0.0
94	28.108	0.036	0.205	4.75e-03	5.69e-04	2.21e-04	2.65e-05	12.88	1.5	0.0	0.0
95	28.247	0.035	0.205	5.72e-03	6.86e-04	8.85e-03	1.06e-03	49.86	6.0	0.0	0.0
96	28.764	0.035	0.204	3.20e-03	3.84e-04	0.02	2.09e-03	0.23	2.76e-02	0.0	0.0
97	29.052	0.034	0.204	0.91	0.1	8.58e-03	1.03e-03	0.03	3.07e-03	0.0	0.0
98	29.480	0.034	0.204	5.71	0.7	0.56	6.72e-02	0.07	8.05e-03	0.0	0.0
99	30.026	0.033	0.204	1.22	0.1	0.02	2.69e-03	0.05	6.48e-03	0.0	0.0
100	30.480	0.033	0.204	1.56	0.2	0.68	8.13e-02	0.03	3.26e-03	0.0	0.0
101	31.261	0.032	0.204	0.22	2.69e-02	0.39	4.65e-02	0.01	1.55e-03	0.0	0.0
102	31.768	0.031	0.204	0.01	1.24e-03	3.50e-05	4.19e-06	4.71	0.6	0.0	0.0
103	34.495	0.029	0.204	8.73e-05	1.05e-05	0.01	1.34e-03	10.91	1.3	0.0	0.0
104	36.131	0.028	0.203	4.21	0.5	0.03	3.46e-03	2.39	0.3	0.0	0.0
105	36.252	0.028	0.203	0.06	7.04e-03	9.11e-05	1.09e-05	4.79	0.6	0.0	0.0
106	36.325	0.028	0.203	0.03	3.25e-03	0.14	1.66e-02	0.43	5.13e-02	0.0	0.0
107	36.582	0.027	0.203	0.26	3.16e-02	2.24e-05	2.69e-06	0.06	6.81e-03	0.0	0.0
108	36.960	0.027	0.203	1.52e-03	1.82e-04	1.76e-04	2.10e-05	26.20	3.1	0.0	0.0
109	37.283	0.027	0.203	0.01	1.44e-03	0.44	5.22e-02	0.09	1.13e-02	0.0	0.0
110	37.373	0.027	0.203	4.47e-05	5.36e-06	0.01	1.59e-03	3.18e-03	3.81e-04	0.0	0.0
111	37.505	0.027	0.203	0.03	3.90e-03	7.49e-03	8.98e-04	0.01	1.28e-03	0.0	0.0
112	37.765	0.026	0.203	0.16	1.96e-02	7.10e-03	8.51e-04	0.01	1.67e-03	0.0	0.0
113	40.397	0.025	0.203	0.02	1.93e-03	1.50e-06	0.0	0.02	2.97e-03	0.0	0.0
114	41.206	0.024	0.203	4.58e-05	5.49e-06	5.26e-04	6.31e-05	59.81	7.2	0.0	0.0
115	41.390	0.024	0.203	3.12e-06	0.0	5.89e-03	7.07e-04	0.02	2.66e-03	0.0	0.0
116	41.710	0.024	0.203	0.02	2.11e-03	9.08e-03	1.09e-03	1.02	0.1	0.0	0.0
117	41.755	0.024	0.203	0.01	1.47e-03	0.03	3.45e-03	16.91	2.0	0.0	0.0
118	41.983	0.024	0.203	6.70e-03	8.04e-04	3.61e-03	4.33e-04	4.24e-03	5.08e-04	0.0	0.0
119	42.377	0.024	0.203	3.70e-03	4.44e-04	9.84e-03	1.18e-03	0.03	3.16e-03	0.0	0.0
120	43.209	0.023	0.203	0.25	2.95e-02	1.83	0.2	0.03	3.06e-03	0.0	0.0
121	45.601	0.022	0.202	8.33e-06	0.0	6.25e-06	0.0	0.45	5.37e-02	0.0	0.0
122	46.203	0.022	0.202	9.45	1.1	5.05e-05	6.05e-06	6.16e-03	7.38e-04	0.0	0.0
123	46.318	0.022	0.202	3.66e-03	4.38e-04	0.02	2.90e-03	39.48	4.7	0.0	0.0
124	46.459	0.022	0.202	1.55e-03	1.86e-04	0.04	4.32e-03	6.44	0.8	0.0	0.0
125	46.615	0.021	0.202	0.10	1.22e-02	2.07	0.2	0.02	1.95e-03	0.0	0.0
126	46.898	0.021	0.202	1.41e-03	1.69e-04	0.05	5.99e-03	11.63	1.4	0.0	0.0
127	47.384	0.021	0.202	3.50e-05	4.20e-06	0.03	3.78e-03	13.51	1.6	0.0	0.0
128	48.627	0.021	0.202	1.75e-06	0.0	8.08	1.0	2.24e-03	2.68e-04	0.0	0.0
129	49.254	0.020	0.202	1.74e-04	2.09e-05	0.01	1.30e-03	99.91	12.0	0.0	0.0
130	49.698	0.020	0.202	6.63e-04	7.95e-05	4.44e-03	5.32e-04	3.20	0.4	0.0	0.0
131	50.832	0.020	0.202	0.01	1.23e-03	0.12	1.40e-02	28.20	3.4	0.0	0.0
132	52.821	0.019	0.202	1.07e-06	0.0	3.61e-06	0.0	37.18	4.5	0.0	0.0
133	53.441	0.019	0.202	2.05e-03	2.46e-04	0.03	3.06e-03	1.42	0.2	0.0	0.0
134	53.535	0.019	0.202	8.72e-04	1.05e-04	0.0	0.0	16.14	1.9	0.0	0.0
135	54.065	0.018	0.202	0.0	0.0	3.54e-03	4.24e-04	16.74	2.0	0.0	0.0
136	54.247	0.018	0.202	0.0	0.0	0.07	7.99e-03	3.73e-06	0.0	0.0	0.0
137	54.537	0.018	0.202	4.33e-05	5.19e-06	4.50e-05	5.39e-06	0.01	1.73e-03	0.0	0.0
138	54.633	0.018	0.202	0.08	9.49e-03	1.70e-06	0.0	2.03e-05	2.43e-06	0.0	0.0
139	54.975	0.018	0.202	5.20e-03	6.23e-04	0.03	3.12e-03	28.58	3.4	0.0	0.0
140	55.358	0.018	0.202	3.83e-05	4.59e-06	1.32e-04	1.58e-05	2.91e-03	3.49e-04	0.0	0.0
141	56.771	0.018	0.202	7.44	0.9	1.44e-05	1.73e-06	5.61	0.7	0.0	0.0
142	56.847	0.018	0.202	0.07	8.65e-03	1.92e-03	2.30e-04	0.04	5.04e-03	0.0	0.0
143	58.241	0.017	0.202	0.0	0.0	7.22	0.9	5.16	0.6	0.0	0.0
144	58.986	0.017	0.202	0.02	1.95e-03	1.90e-04	2.27e-05	4.31	0.5	0.0	0.0
145	59.089	0.017	0.202	0.09	1.13e-02	2.21e-03	2.65e-04	30.35	3.6	0.0	0.0
146	59.446	0.017	0.202	6.32e-04	7.58e-05	7.70e-04	9.23e-05	0.03	3.51e-03	0.0	0.0
147	60.688	0.016	0.202	1.37e-04	1.64e-05	1.34e-05	1.60e-06	11.20	1.3	0.0	0.0
148	60.699	0.016	0.202	1.61e-06	0.0	3.44e-03	4.13e-04	13.73	1.6	0.0	0.0
149	61.146	0.016	0.202	6.08e-03	7.29e-04	9.67e-05	1.16e-05	5.70e-03	6.84e-04	0.0	0.0
150	61.315	0.016	0.202	0.28	3.37e-02	0.0	0.0	9.10e-04	1.09e-04	0.0	0.0
151	61.696	0.016	0.202	4.44e-04	5.32e-05	2.16e-06	0.0	17.34	2.1	0.0	0.0
152	61.734	0.016	0.202	1.89e-06	0.0	2.36e-04	2.83e-05	10.12	1.2	0.0	0.0
153	63.119	0.016	0.202	9.15e-06	1.10e-06	0.23	2.81e-02	0.02	2.94e-03	0.0	0.0
154	63.806	0.016	0.202	1.24	0.1	0.02	2.85e-03	3.48	0.4	0.0	0.0
155	65.100	0.015	0.202	0.47	5.63e-02	0.05	5.72e-03	1.59	0.2	0.0	0.0
156	67.164	0.015	0.202	6.25e-04	7.49e-05	6.36e-04	7.63e-05	0.05	6.30e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
157	69.045	0.014	0.202	1.33e-04	1.60e-05	5.93e-04	7.11e-05	0.16	1.93e-02	0.0	0.0
158	70.227	0.014	0.202	1.45e-04	1.73e-05	0.02	1.94e-03	1.46e-03	1.74e-04	0.0	0.0
159	70.283	0.014	0.202	4.84e-05	5.80e-06	9.90e-04	1.19e-04	0.03	3.06e-03	0.0	0.0
160	70.439	0.014	0.202	2.43e-03	2.91e-04	2.15e-03	2.58e-04	0.30	3.59e-02	0.0	0.0
161	70.924	0.014	0.202	7.20e-04	8.64e-05	0.02	2.88e-03	0.07	8.08e-03	0.0	0.0
162	73.302	0.014	0.202	1.53e-03	1.84e-04	4.76e-04	5.71e-05	0.31	3.69e-02	0.0	0.0
163	75.105	0.013	0.202	0.18	2.17e-02	1.06e-03	1.27e-04	0.04	4.30e-03	0.0	0.0
164	75.535	0.013	0.202	2.22e-03	2.66e-04	0.09	1.08e-02	1.13e-03	1.35e-04	0.0	0.0
165	76.168	0.013	0.202	0.05	5.61e-03	0.0	0.0	0.21	2.48e-02	0.0	0.0
166	77.266	0.013	0.202	0.01	1.38e-03	4.02e-05	4.82e-06	0.61	7.33e-02	0.0	0.0
167	78.566	0.013	0.202	1.90e-03	2.28e-04	0.16	1.86e-02	0.02	2.20e-03	0.0	0.0
168	78.886	0.013	0.202	4.24e-03	5.08e-04	0.04	5.32e-03	0.06	7.62e-03	0.0	0.0
169	79.895	0.013	0.202	2.85e-04	3.42e-05	7.60e-04	9.11e-05	15.54	1.9	0.0	0.0
170	81.514	0.012	0.202	0.02	2.67e-03	2.03e-03	2.44e-04	0.63	7.58e-02	0.0	0.0
171	82.381	0.012	0.202	0.04	5.32e-03	7.09e-03	8.50e-04	8.60e-03	1.03e-03	0.0	0.0
172	83.160	0.012	0.202	0.01	1.20e-03	0.26	3.07e-02	0.67	8.03e-02	0.0	0.0
173	83.572	0.012	0.202	1.72e-04	2.06e-05	0.03	3.64e-03	4.13	0.5	0.0	0.0
174	85.679	0.012	0.202	6.99e-04	8.38e-05	0.02	2.81e-03	0.87	0.1	0.0	0.0
175	86.550	0.012	0.202	2.64e-03	3.16e-04	6.15e-04	7.37e-05	0.01	1.42e-03	0.0	0.0
176	87.925	0.011	0.202	4.50e-04	5.39e-05	2.43e-04	2.92e-05	0.77	9.21e-02	0.0	0.0
177	89.837	0.011	0.202	1.28e-04	1.54e-05	0.29	3.49e-02	0.80	9.62e-02	0.0	0.0
178	91.817	0.011	0.202	4.00e-06	0.0	0.02	2.54e-03	0.43	5.12e-02	0.0	0.0
179	92.504	0.011	0.202	0.05	6.37e-03	2.27e-05	2.72e-06	4.98e-04	5.97e-05	0.0	0.0
180	94.908	0.011	0.202	2.53e-04	3.03e-05	0.06	7.59e-03	0.32	3.81e-02	0.0	0.0
181	95.969	0.010	0.202	2.44e-03	2.92e-04	0.17	2.02e-02	0.22	2.60e-02	0.0	0.0
182	96.495	0.010	0.202	3.83e-03	4.59e-04	0.08	1.01e-02	0.27	3.26e-02	0.0	0.0
183	98.897	0.010	0.202	6.78e-03	8.13e-04	0.06	6.72e-03	0.86	0.1	0.0	0.0
184	101.746	0.010	0.202	7.19e-03	8.62e-04	4.06e-04	4.87e-05	0.02	2.54e-03	0.0	0.0
185	102.382	0.010	0.202	1.17e-03	1.40e-04	2.74e-03	3.29e-04	3.52	0.4	0.0	0.0
186	106.161	0.009	0.202	2.05e-05	2.46e-06	7.43e-04	8.91e-05	6.84	0.8	0.0	0.0
187	108.325	0.009	0.202	1.08e-03	1.29e-04	0.02	2.40e-03	0.20	2.45e-02	0.0	0.0
188	109.147	0.009	0.202	5.95e-03	7.13e-04	0.01	1.62e-03	0.02	2.86e-03	0.0	0.0
189	110.192	0.009	0.202	3.00e-04	3.59e-05	0.04	4.65e-03	0.02	2.12e-03	0.0	0.0
190	116.664	0.009	0.202	1.43e-05	1.72e-06	0.01	1.51e-03	0.03	4.09e-03	0.0	0.0
191	131.822	0.008	0.202	0.05	6.46e-03	0.14	1.67e-02	0.09	1.07e-02	0.0	0.0
192	133.378	0.007	0.202	0.02	1.90e-03	5.72e-03	6.86e-04	2.43	0.3	0.0	0.0
193	134.034	0.007	0.202	0.08	9.20e-03	6.24e-03	7.48e-04	0.54	6.43e-02	0.0	0.0
194	138.009	0.007	0.202	0.87	0.1	0.04	4.48e-03	2.63e-04	3.15e-05	0.0	0.0
195	142.511	0.007	0.202	1.64e-03	1.97e-04	0.11	1.32e-02	0.32	3.80e-02	0.0	0.0
196	145.363	0.007	0.202	0.07	8.19e-03	8.20e-04	9.83e-05	13.09	1.6	0.0	0.0
197	147.820	0.007	0.202	0.29	3.46e-02	5.21e-04	6.25e-05	2.85	0.3	0.0	0.0
198	148.815	0.007	0.202	8.07e-04	9.67e-05	0.21	2.49e-02	3.65	0.4	0.0	0.0
199	155.182	0.006	0.202	7.42e-03	8.89e-04	7.08e-03	8.49e-04	6.72	0.8	0.0	0.0
200	163.922	0.006	0.202	0.26	3.10e-02	1.96e-04	2.35e-05	1.86	0.2	0.0	0.0
201	169.436	0.006	0.202	0.04	5.39e-03	0.14	1.64e-02	0.03	4.18e-03	0.0	0.0
202	171.814	0.006	0.202	6.50e-05	7.79e-06	1.80e-03	2.16e-04	10.66	1.3	0.0	0.0
203	176.815	0.006	0.202	0.12	1.39e-02	0.04	4.71e-03	0.17	2.05e-02	0.0	0.0
204	186.020	0.005	0.202	0.01	1.69e-03	0.09	1.12e-02	0.08	1.00e-02	0.0	0.0
205	190.897	0.005	0.202	0.02	2.55e-03	0.01	1.49e-03	1.86	0.2	0.0	0.0
206	196.704	0.005	0.202	0.02	2.26e-03	6.37e-03	7.64e-04	1.05	0.1	0.0	0.0
207	215.931	0.005	0.202	2.54e-03	3.05e-04	0.09	1.03e-02	0.02	2.32e-03	0.0	0.0
208	218.856	0.005	0.202	0.02	1.91e-03	1.39e-03	1.67e-04	1.60	0.2	0.0	0.0
209	222.904	0.004	0.202	4.66e-03	5.59e-04	1.08e-03	1.30e-04	2.66	0.3	0.0	0.0
210	258.051	0.004	0.202	1.54e-03	1.85e-04	0.08	9.55e-03	5.33e-03	6.39e-04	0.0	0.0
211	265.171	0.004	0.202	8.27e-04	9.92e-05	1.18e-04	1.41e-05	2.64	0.3	0.0	0.0
212	268.414	0.004	0.202	0.16	1.95e-02	0.02	1.92e-03	0.03	3.87e-03	0.0	0.0
213	287.969	0.003	0.202	6.84e-04	8.20e-05	0.07	8.44e-03	0.01	1.61e-03	0.0	0.0
214	297.834	0.003	0.202	0.05	6.39e-03	4.02e-03	4.82e-04	0.03	3.36e-03	0.0	0.0
215	336.937	0.003	0.202	3.17e-03	3.80e-04	6.60e-05	7.91e-06	0.79	9.42e-02	0.0	0.0
216	358.220	0.003	0.202	8.48e-03	1.02e-03	3.68e-04	4.42e-05	0.07	8.62e-03	0.0	0.0
217	365.264	0.003	0.202	8.44e-05	1.01e-05	2.79e-03	3.34e-04	8.20e-03	9.83e-04	0.0	0.0
218	414.199	0.002	0.202	2.52e-04	3.03e-05	1.27e-04	1.52e-05	0.86	0.1	0.0	0.0
219	532.783	0.002	0.202	7.71e-06	0.0	1.37e-03	1.64e-04	0.07	8.86e-03	0.0	0.0
220	556.697	0.002	0.202	4.42e-03	5.29e-04	1.09e-04	1.31e-05	0.46	5.49e-02	0.0	0.0
221	617.044	0.002	0.202	4.15e-04	4.98e-05	7.49e-05	8.98e-06	0.46	5.53e-02	0.0	0.0
222	806.750	0.001	0.202	1.47e-04	1.77e-05	6.21e-04	7.44e-05	3.27e-05	3.92e-06	0.0	0.0
223	934.000	0.001	0.202	5.91e-04	7.08e-05	1.10e-05	1.32e-06	0.04	4.85e-03	0.0	0.0
224	954.690	0.001	0.202	2.43e-05	2.91e-06	9.66e-06	1.16e-06	0.31	3.73e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
19	Edk	CDC=Ed (dinamico SL CO) alfa=90.00 (ecc. +)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.425 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	0.40	0.0	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	0.54	0.0	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	0.54	0.0	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	0.30	0.0	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	0.54	0.0	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	0.38	0.0	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	0.08	0.0	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	0.08	0.0	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.843	1.187	0.206	9.92	1.2	2.64e-04	3.17e-05	0.0	0.0	0.0	0.0
2	0.846	1.182	0.207	0.03	3.69e-03	0.0	0.0	5.14e-06	0.0	0.0	0.0
3	1.006	0.994	0.223	1.86e-03	2.23e-04	12.09	1.4	1.13e-05	1.35e-06	0.0	0.0
4	1.011	0.989	0.224	1.08e-04	1.30e-05	0.03	3.25e-03	1.28e-05	1.54e-06	0.0	0.0
5	1.248	0.801	0.258	2.44e-03	2.92e-04	12.29	1.5	1.54e-06	0.0	0.0	0.0
6	1.249	0.800	0.258	7.52e-05	9.02e-06	0.04	4.23e-03	7.08e-06	0.0	0.0	0.0
7	1.325	0.755	0.281	10.93	1.3	4.89e-03	5.86e-04	0.0	0.0	0.0	0.0
8	1.327	0.754	0.282	0.04	4.29e-03	2.98e-06	0.0	5.34e-06	0.0	0.0	0.0
9	1.443	0.693	0.342	5.76e-06	0.0	4.03	0.5	0.0	0.0	0.0	0.0
10	1.510	0.662	0.359	6.74	0.8	2.40e-06	0.0	1.32e-05	1.58e-06	0.0	0.0
11	1.517	0.659	0.360	0.01	1.60e-03	7.62e-05	9.13e-06	1.24e-05	1.49e-06	0.0	0.0
12	2.119	0.472	0.436	0.36	4.34e-02	9.19	1.1	6.64e-05	7.97e-06	0.0	0.0
13	2.354	0.425	0.469	175.86	21.1	356.13	42.7	0.04	4.54e-03	0.0	0.0
14	2.960	0.338	0.596	276.91	33.2	174.79	21.0	0.02	1.81e-03	0.0	0.0
15	3.405	0.294	0.624	79.22	9.5	17.22	2.1	5.22e-04	6.25e-05	0.0	0.0
16	3.539	0.283	0.606	2.77	0.3	0.25	3.01e-02	6.07e-03	7.28e-04	0.0	0.0
17	3.963	0.252	0.565	6.55e-03	7.85e-04	22.82	2.7	5.70e-04	6.84e-05	0.0	0.0
18	3.989	0.251	0.557	5.39e-03	6.46e-04	0.11	1.27e-02	0.02	1.81e-03	0.0	0.0
19	4.200	0.238	0.494	0.07	8.02e-03	1.45	0.2	3.04e-05	3.64e-06	0.0	0.0
20	4.920	0.203	0.418	0.26	3.11e-02	36.80	4.4	0.17	2.07e-02	0.0	0.0
21	5.141	0.195	0.417	19.21	2.3	7.72e-05	9.26e-06	1.91e-05	2.29e-06	0.0	0.0
22	5.575	0.179	0.413	12.19	1.5	1.92	0.2	0.25	2.95e-02	0.0	0.0
23	5.830	0.172	0.400	7.92	0.9	2.43	0.3	0.05	5.87e-03	0.0	0.0
24	5.895	0.170	0.397	4.78	0.6	10.19	1.2	0.02	1.84e-03	0.0	0.0
25	6.497	0.154	0.372	2.83	0.3	0.48	5.76e-02	0.01	1.27e-03	0.0	0.0
26	6.797	0.147	0.360	8.71	1.0	0.05	5.58e-03	0.01	1.22e-03	0.0	0.0
27	6.949	0.144	0.355	24.70	3.0	2.58	0.3	0.05	5.42e-03	0.0	0.0
28	7.155	0.140	0.348	2.62	0.3	7.42	0.9	1.53e-03	1.83e-04	0.0	0.0
29	7.399	0.135	0.340	34.24	4.1	0.31	3.73e-02	0.09	1.06e-02	0.0	0.0
30	7.787	0.128	0.329	0.45	5.35e-02	17.57	2.1	1.60e-03	1.92e-04	0.0	0.0
31	8.013	0.125	0.323	7.04	0.8	12.90	1.5	4.31e-04	5.17e-05	0.0	0.0
32	8.385	0.119	0.315	16.28	2.0	0.44	5.30e-02	0.06	6.75e-03	0.0	0.0
33	8.636	0.116	0.315	2.22	0.3	7.52	0.9	0.07	8.87e-03	0.0	0.0
34	9.021	0.111	0.314	0.89	0.1	0.85	0.1	0.19	2.28e-02	0.0	0.0
35	9.062	0.110	0.313	1.68	0.2	4.39	0.5	0.60	7.23e-02	0.0	0.0
36	9.392	0.106	0.313	0.21	2.58e-02	17.31	2.1	1.19	0.1	0.0	0.0
37	9.781	0.102	0.312	0.26	3.11e-02	0.01	1.65e-03	0.03	3.72e-03	0.0	0.0
38	10.391	0.096	0.303	10.30	1.2	0.01	1.57e-03	2.35	0.3	0.0	0.0
39	10.495	0.095	0.301	0.07	8.46e-03	0.29	3.42e-02	0.02	2.48e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
40	10.675	0.094	0.297	5.45	0.7	0.06	7.27e-03	3.46	0.4	0.0	0.0
41	10.743	0.093	0.296	1.41	0.2	0.95	0.1	0.03	4.08e-03	0.0	0.0
42	11.433	0.087	0.284	2.26e-03	2.71e-04	5.66	0.7	4.89e-04	5.86e-05	0.0	0.0
43	12.081	0.083	0.273	7.00e-03	8.39e-04	4.49	0.5	2.38e-03	2.86e-04	0.0	0.0
44	12.465	0.080	0.268	0.25	3.00e-02	0.27	3.21e-02	34.76	4.2	0.0	0.0
45	12.868	0.078	0.262	14.26	1.7	13.70	1.6	0.83	9.91e-02	0.0	0.0
46	13.196	0.076	0.258	6.46	0.8	0.01	1.21e-03	0.01	1.45e-03	0.0	0.0
47	13.476	0.074	0.255	2.69	0.3	0.94	0.1	0.10	1.19e-02	0.0	0.0
48	13.824	0.072	0.251	0.68	8.14e-02	0.51	6.14e-02	0.41	4.90e-02	0.0	0.0
49	14.022	0.071	0.249	1.52	0.2	2.38	0.3	0.13	1.51e-02	0.0	0.0
50	14.527	0.069	0.244	7.69	0.9	0.28	3.34e-02	0.06	7.56e-03	0.0	0.0
51	14.747	0.068	0.242	0.35	4.22e-02	3.02	0.4	0.14	1.68e-02	0.0	0.0
52	15.061	0.066	0.239	0.41	4.87e-02	0.43	5.17e-02	3.56e-04	4.27e-05	0.0	0.0
53	15.201	0.066	0.238	0.14	1.72e-02	1.34e-03	1.61e-04	0.03	3.94e-03	0.0	0.0
54	15.286	0.065	0.237	3.21	0.4	0.51	6.16e-02	9.83e-05	1.18e-05	0.0	0.0
55	15.422	0.065	0.236	0.08	9.83e-03	1.33	0.2	0.36	4.32e-02	0.0	0.0
56	15.622	0.064	0.234	1.42	0.2	1.12	0.1	0.72	8.63e-02	0.0	0.0
57	15.710	0.064	0.233	0.22	2.69e-02	5.49	0.7	2.88	0.3	0.0	0.0
58	15.735	0.064	0.233	1.43	0.2	5.04	0.6	0.57	6.85e-02	0.0	0.0
59	15.903	0.063	0.232	1.15	0.1	4.54	0.5	2.46	0.3	0.0	0.0
60	16.151	0.062	0.229	3.21	0.4	3.63	0.4	0.01	1.30e-03	0.0	0.0
61	16.330	0.061	0.228	2.48	0.3	3.27	0.4	0.50	5.95e-02	0.0	0.0
62	16.375	0.061	0.228	0.83	9.90e-02	0.42	5.05e-02	9.36	1.1	0.0	0.0
63	16.487	0.061	0.227	5.55e-04	6.66e-05	1.49	0.2	0.09	1.13e-02	0.0	0.0
64	16.623	0.060	0.226	3.65e-04	4.38e-05	0.04	4.60e-03	0.53	6.36e-02	0.0	0.0
65	16.804	0.060	0.225	0.54	6.45e-02	0.16	1.88e-02	0.07	8.34e-03	0.0	0.0
66	17.213	0.058	0.224	2.89	0.3	0.16	1.87e-02	1.27	0.2	0.0	0.0
67	17.332	0.058	0.223	0.06	6.73e-03	2.73	0.3	13.23	1.6	0.0	0.0
68	18.114	0.055	0.221	0.68	8.13e-02	3.00	0.4	0.02	2.66e-03	0.0	0.0
69	18.338	0.055	0.220	0.42	5.09e-02	0.01	1.31e-03	0.81	9.68e-02	0.0	0.0
70	18.464	0.054	0.220	1.63	0.2	0.20	2.37e-02	0.75	9.04e-02	0.0	0.0
71	18.594	0.054	0.219	0.15	1.84e-02	0.01	1.49e-03	0.12	1.45e-02	0.0	0.0
72	19.022	0.053	0.218	6.99	0.8	0.02	2.47e-03	8.04	1.0	0.0	0.0
73	19.332	0.052	0.217	0.14	1.67e-02	4.99	0.6	8.37	1.0	0.0	0.0
74	19.439	0.051	0.217	1.81	0.2	0.22	2.59e-02	0.10	1.18e-02	0.0	0.0
75	19.682	0.051	0.216	0.01	1.78e-03	0.12	1.44e-02	0.56	6.68e-02	0.0	0.0
76	20.033	0.050	0.215	0.23	2.70e-02	0.56	6.72e-02	8.02e-06	0.0	0.0	0.0
77	20.702	0.048	0.214	0.46	5.57e-02	0.85	0.1	1.72	0.2	0.0	0.0
78	21.042	0.048	0.213	0.32	3.87e-02	0.40	4.75e-02	0.61	7.33e-02	0.0	0.0
79	21.719	0.046	0.211	1.53	0.2	0.13	1.59e-02	13.74	1.6	0.0	0.0
80	22.519	0.044	0.210	0.24	2.92e-02	0.24	2.94e-02	0.12	1.49e-02	0.0	0.0
81	23.076	0.043	0.209	0.40	4.79e-02	2.41e-03	2.89e-04	0.28	3.38e-02	0.0	0.0
82	23.199	0.043	0.208	9.47e-03	1.13e-03	0.32	3.83e-02	8.48	1.0	0.0	0.0
83	23.475	0.043	0.208	0.05	5.81e-03	2.87	0.3	15.84	1.9	0.0	0.0
84	24.311	0.041	0.206	0.08	9.95e-03	0.18	2.15e-02	3.15	0.4	0.0	0.0
85	25.046	0.040	0.205	0.89	0.1	0.07	7.83e-03	0.03	4.09e-03	0.0	0.0
86	25.358	0.039	0.205	0.36	4.35e-02	2.89e-03	3.46e-04	0.25	2.98e-02	0.0	0.0
87	25.458	0.039	0.205	0.79	9.46e-02	9.15e-04	1.10e-04	2.51e-03	3.01e-04	0.0	0.0
88	25.771	0.039	0.205	0.20	2.43e-02	6.10e-04	7.31e-05	7.53e-03	9.02e-04	0.0	0.0
89	25.823	0.039	0.205	5.68e-05	6.81e-06	0.18	2.16e-02	0.05	5.61e-03	0.0	0.0
90	26.014	0.038	0.205	0.09	1.04e-02	0.02	1.86e-03	0.69	8.33e-02	0.0	0.0
91	26.355	0.038	0.205	3.25	0.4	0.02	2.42e-03	0.12	1.42e-02	0.0	0.0
92	26.621	0.038	0.205	0.11	1.37e-02	0.01	1.39e-03	3.95	0.5	0.0	0.0
93	26.992	0.037	0.205	0.09	1.10e-02	0.06	6.68e-03	1.18	0.1	0.0	0.0
94	28.120	0.036	0.205	9.44e-04	1.13e-04	8.62e-06	1.03e-06	11.73	1.4	0.0	0.0
95	28.259	0.035	0.205	9.15e-03	1.10e-03	2.21e-03	2.65e-04	50.44	6.0	0.0	0.0
96	28.539	0.035	0.205	1.94	0.2	5.23e-03	6.27e-04	0.12	1.42e-02	0.0	0.0
97	29.655	0.034	0.204	0.21	2.57e-02	0.01	1.35e-03	2.20e-04	2.63e-05	0.0	0.0
98	29.867	0.033	0.204	0.86	0.1	0.03	3.73e-03	5.11e-03	6.13e-04	0.0	0.0
99	30.453	0.033	0.204	4.14	0.5	0.51	6.07e-02	0.02	1.87e-03	0.0	0.0
100	31.780	0.031	0.204	0.03	3.80e-03	6.91e-03	8.29e-04	3.97	0.5	0.0	0.0
101	31.861	0.031	0.204	1.60	0.2	0.08	9.19e-03	0.65	7.83e-02	0.0	0.0
102	32.851	0.030	0.204	1.05e-03	1.26e-04	0.95	0.1	0.02	1.94e-03	0.0	0.0
103	34.557	0.029	0.204	5.86e-03	7.02e-04	0.05	5.82e-03	11.01	1.3	0.0	0.0
104	35.201	0.028	0.203	4.72	0.6	0.05	5.54e-03	1.53	0.2	0.0	0.0
105	35.412	0.028	0.203	2.17e-03	2.61e-04	0.52	6.29e-02	0.03	3.48e-03	0.0	0.0
106	36.264	0.028	0.203	3.94e-04	4.72e-05	5.24e-04	6.28e-05	6.56	0.8	0.0	0.0
107	36.494	0.027	0.203	0.01	1.50e-03	0.11	1.34e-02	0.07	7.83e-03	0.0	0.0
108	36.588	0.027	0.203	0.18	2.18e-02	1.77e-03	2.13e-04	0.05	5.87e-03	0.0	0.0
109	36.970	0.027	0.203	9.48e-04	1.14e-04	2.60e-03	3.12e-04	25.60	3.1	0.0	0.0
110	37.418	0.027	0.203	0.07	8.41e-03	1.07e-05	1.29e-06	0.02	2.70e-03	0.0	0.0
111	37.669	0.027	0.203	0.02	1.81e-03	2.49e-04	2.98e-05	1.85e-03	2.22e-04	0.0	0.0
112	37.940	0.026	0.203	7.52e-05	9.01e-06	0.01	1.44e-03	0.01	1.28e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
113	40.234	0.025	0.203	1.05e-03	1.26e-04	0.05	5.94e-03	0.01	1.48e-03	0.0	0.0
114	41.229	0.024	0.203	3.34e-04	4.00e-05	1.68e-03	2.01e-04	58.12	7.0	0.0	0.0
115	41.401	0.024	0.203	8.82e-03	1.06e-03	5.95e-05	7.14e-06	0.01	1.35e-03	0.0	0.0
116	41.729	0.024	0.203	0.03	3.52e-03	0.01	1.25e-03	1.25	0.1	0.0	0.0
117	41.771	0.024	0.203	0.01	1.76e-03	0.04	4.20e-03	16.83	2.0	0.0	0.0
118	42.001	0.024	0.203	5.49e-03	6.58e-04	2.24e-03	2.69e-04	6.76e-04	8.11e-05	0.0	0.0
119	42.585	0.023	0.203	2.53e-05	3.03e-06	3.01e-03	3.61e-04	0.02	2.68e-03	0.0	0.0
120	43.580	0.023	0.203	0.27	3.26e-02	2.12	0.3	4.19e-04	5.02e-05	0.0	0.0
121	45.595	0.022	0.202	1.29e-03	1.55e-04	4.79e-04	5.75e-05	0.03	3.76e-03	0.0	0.0
122	46.379	0.022	0.202	2.17e-03	2.60e-04	0.02	2.06e-03	44.40	5.3	0.0	0.0
123	46.542	0.021	0.202	5.01e-03	6.01e-04	0.02	2.06e-03	5.89	0.7	0.0	0.0
124	46.723	0.021	0.202	0.17	2.05e-02	1.69	0.2	0.03	3.62e-03	0.0	0.0
125	46.935	0.021	0.202	5.46e-03	6.55e-04	0.05	5.66e-03	9.42	1.1	0.0	0.0
126	47.369	0.021	0.202	5.10e-04	6.11e-05	0.02	2.61e-03	13.83	1.7	0.0	0.0
127	49.252	0.020	0.202	2.18e-03	2.62e-04	1.85e-04	2.22e-05	98.07	11.8	0.0	0.0
128	49.674	0.020	0.202	0.03	3.99e-03	0.01	1.74e-03	1.00	0.1	0.0	0.0
129	49.856	0.020	0.202	7.64	0.9	4.17e-05	5.00e-06	0.29	3.46e-02	0.0	0.0
130	50.335	0.020	0.202	1.26e-03	1.51e-04	0.01	1.71e-03	14.01	1.7	0.0	0.0
131	51.100	0.020	0.202	9.73e-03	1.17e-03	0.11	1.29e-02	17.75	2.1	0.0	0.0
132	52.820	0.019	0.202	1.10e-06	0.0	5.47e-06	0.0	37.18	4.5	0.0	0.0
133	53.186	0.019	0.202	3.69e-06	0.0	5.90	0.7	0.75	9.01e-02	0.0	0.0
134	53.574	0.019	0.202	0.0	0.0	1.24e-06	0.0	2.89e-03	3.46e-04	0.0	0.0
135	54.116	0.018	0.202	0.02	2.92e-03	0.0	0.0	16.44	2.0	0.0	0.0
136	54.183	0.018	0.202	0.0	0.0	0.06	7.54e-03	5.73e-04	6.87e-05	0.0	0.0
137	54.346	0.018	0.202	0.08	9.41e-03	2.35e-05	2.82e-06	2.19e-04	2.63e-05	0.0	0.0
138	54.668	0.018	0.202	2.12e-06	0.0	0.11	1.36e-02	16.24	1.9	0.0	0.0
139	54.975	0.018	0.202	3.79e-03	4.54e-04	0.02	2.67e-03	28.73	3.4	0.0	0.0
140	55.354	0.018	0.202	7.11e-05	8.53e-06	1.26e-04	1.51e-05	3.92e-03	4.70e-04	0.0	0.0
141	55.722	0.018	0.202	0.09	1.07e-02	2.69e-03	3.23e-04	0.03	3.46e-03	0.0	0.0
142	58.235	0.017	0.202	7.38	0.9	1.44e-05	1.73e-06	5.04	0.6	0.0	0.0
143	58.936	0.017	0.202	1.79e-03	2.14e-04	0.0	0.0	0.99	0.1	0.0	0.0
144	58.976	0.017	0.202	0.02	2.91e-03	8.82e-04	1.06e-04	6.73	0.8	0.0	0.0
145	59.068	0.017	0.202	0.08	9.77e-03	3.94e-03	4.72e-04	27.13	3.3	0.0	0.0
146	59.909	0.017	0.202	0.0	0.0	7.34	0.9	5.48	0.7	0.0	0.0
147	60.691	0.016	0.202	1.48e-03	1.77e-04	4.43e-05	5.32e-06	11.99	1.4	0.0	0.0
148	60.707	0.016	0.202	1.70e-05	2.03e-06	0.05	6.54e-03	12.21	1.5	0.0	0.0
149	61.067	0.016	0.202	2.50e-03	3.00e-04	4.47e-04	5.36e-05	3.40e-06	0.0	0.0	0.0
150	61.693	0.016	0.202	1.62e-04	1.94e-05	0.0	0.0	14.73	1.8	0.0	0.0
151	61.731	0.016	0.202	9.50e-06	1.14e-06	3.95e-04	4.73e-05	12.71	1.5	0.0	0.0
152	63.119	0.016	0.202	0.23	2.79e-02	2.26e-06	0.0	0.03	3.42e-03	0.0	0.0
153	63.628	0.016	0.202	1.00	0.1	0.03	3.39e-03	3.85	0.5	0.0	0.0
154	64.892	0.015	0.202	0.72	8.65e-02	0.04	5.38e-03	1.26	0.2	0.0	0.0
155	65.047	0.015	0.202	2.52e-06	0.0	0.19	2.30e-02	0.02	2.74e-03	0.0	0.0
156	65.772	0.015	0.202	4.32e-04	5.18e-05	0.04	4.81e-03	0.07	7.91e-03	0.0	0.0
157	67.019	0.015	0.202	2.46e-04	2.95e-05	3.70e-04	4.44e-05	0.02	2.22e-03	0.0	0.0
158	69.125	0.014	0.202	3.52e-04	4.22e-05	6.63e-05	7.95e-06	0.13	1.53e-02	0.0	0.0
159	70.054	0.014	0.202	8.56e-03	1.03e-03	5.85e-04	7.02e-05	0.10	1.15e-02	0.0	0.0
160	70.163	0.014	0.202	0.04	5.29e-03	0.02	2.62e-03	0.03	3.83e-03	0.0	0.0
161	70.301	0.014	0.202	4.02e-03	4.81e-04	0.08	9.56e-03	0.01	1.33e-03	0.0	0.0
162	72.808	0.014	0.202	2.01e-03	2.41e-04	6.06e-05	7.27e-06	0.22	2.58e-02	0.0	0.0
163	73.390	0.014	0.202	2.48e-04	2.98e-05	0.02	2.89e-03	0.13	1.62e-02	0.0	0.0
164	73.758	0.014	0.202	7.46e-03	8.94e-04	4.73e-03	5.67e-04	0.41	4.93e-02	0.0	0.0
165	75.393	0.013	0.202	0.08	1.01e-02	6.32e-04	7.57e-05	0.07	7.94e-03	0.0	0.0
166	76.369	0.013	0.202	3.58e-03	4.30e-04	4.77e-03	5.72e-04	0.34	4.03e-02	0.0	0.0
167	78.528	0.013	0.202	0.10	1.20e-02	2.12e-03	2.54e-04	0.02	2.08e-03	0.0	0.0
168	78.661	0.013	0.202	0.09	1.12e-02	3.74e-04	4.48e-05	0.37	4.45e-02	0.0	0.0
169	79.710	0.013	0.202	3.56e-03	4.27e-04	6.97e-03	8.36e-04	0.02	2.30e-03	0.0	0.0
170	79.920	0.013	0.202	1.18e-03	1.41e-04	0.0	0.0	15.94	1.9	0.0	0.0
171	81.491	0.012	0.202	7.15e-03	8.57e-04	2.12e-03	2.54e-04	0.02	2.78e-03	0.0	0.0
172	82.935	0.012	0.202	2.79e-04	3.35e-05	0.46	5.51e-02	1.29	0.2	0.0	0.0
173	84.079	0.012	0.202	6.02e-04	7.22e-05	0.02	1.88e-03	3.25	0.4	0.0	0.0
174	84.946	0.012	0.202	8.18e-04	9.80e-05	0.02	2.59e-03	0.13	1.57e-02	0.0	0.0
175	86.921	0.012	0.202	2.39e-03	2.87e-04	4.79e-04	5.74e-05	0.04	4.28e-03	0.0	0.0
176	88.758	0.011	0.202	1.86e-04	2.22e-05	0.02	2.26e-03	2.44	0.3	0.0	0.0
177	89.551	0.011	0.202	2.30e-05	2.75e-06	0.29	3.46e-02	0.32	3.88e-02	0.0	0.0
178	92.023	0.011	0.202	0.02	2.88e-03	6.13e-03	7.35e-04	0.31	3.77e-02	0.0	0.0
179	92.461	0.011	0.202	0.03	3.48e-03	3.83e-03	4.59e-04	0.24	2.91e-02	0.0	0.0
180	94.512	0.011	0.202	3.32e-06	0.0	0.15	1.75e-02	2.20e-03	2.63e-04	0.0	0.0
181	96.072	0.010	0.202	2.15e-04	2.58e-05	0.10	1.24e-02	0.39	4.66e-02	0.0	0.0
182	98.135	0.010	0.202	9.77e-03	1.17e-03	0.03	4.03e-03	0.28	3.32e-02	0.0	0.0
183	99.232	0.010	0.202	1.04e-04	1.25e-05	0.01	1.28e-03	1.34	0.2	0.0	0.0
184	100.444	0.010	0.202	0.01	1.47e-03	3.34e-03	4.00e-04	0.27	3.21e-02	0.0	0.0
185	103.277	0.010	0.202	7.88e-04	9.44e-05	9.57e-03	1.15e-03	1.83	0.2	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
186	104.259	0.010	0.202	1.72e-06	0.0	0.07	7.96e-03	0.33	3.93e-02	0.0	0.0
187	106.775	0.009	0.202	4.47e-05	5.36e-06	1.12e-03	1.34e-04	6.70	0.8	0.0	0.0
188	112.290	0.009	0.202	7.49e-06	0.0	8.07e-03	9.68e-04	0.02	2.45e-03	0.0	0.0
189	113.836	0.009	0.202	4.93e-05	5.92e-06	4.22e-04	5.06e-05	0.75	8.95e-02	0.0	0.0
190	114.534	0.009	0.202	8.53e-03	1.02e-03	1.07e-05	1.28e-06	6.97e-04	8.35e-05	0.0	0.0
191	122.025	0.008	0.202	0.0	0.0	0.02	1.99e-03	3.94e-03	4.72e-04	0.0	0.0
192	131.808	0.008	0.202	0.41	4.90e-02	0.06	7.17e-03	0.02	2.34e-03	0.0	0.0
193	134.593	0.007	0.202	3.99e-03	4.78e-04	6.31e-06	0.0	3.28	0.4	0.0	0.0
194	138.375	0.007	0.202	0.44	5.25e-02	0.05	5.45e-03	0.01	1.54e-03	0.0	0.0
195	140.980	0.007	0.202	0.15	1.79e-02	0.07	8.95e-03	1.01e-03	1.21e-04	0.0	0.0
196	145.642	0.007	0.202	3.90e-03	4.67e-04	1.83e-03	2.19e-04	15.84	1.9	0.0	0.0
197	148.896	0.007	0.202	0.28	3.36e-02	0.05	6.58e-03	0.84	0.1	0.0	0.0
198	150.812	0.007	0.202	9.33e-03	1.12e-03	0.24	2.83e-02	3.27	0.4	0.0	0.0
199	155.425	0.006	0.202	1.70e-03	2.04e-04	0.03	3.77e-03	7.62	0.9	0.0	0.0
200	161.537	0.006	0.202	0.19	2.27e-02	0.04	4.77e-03	0.02	2.10e-03	0.0	0.0
201	168.825	0.006	0.202	0.20	2.37e-02	0.05	5.61e-03	1.74	0.2	0.0	0.0
202	173.662	0.006	0.202	6.54e-04	7.85e-05	0.02	2.37e-03	8.98	1.1	0.0	0.0
203	178.190	0.006	0.202	0.03	3.37e-03	0.07	8.95e-03	1.36	0.2	0.0	0.0
204	186.657	0.005	0.202	2.25e-03	2.70e-04	0.09	1.09e-02	0.07	8.11e-03	0.0	0.0
205	189.333	0.005	0.202	0.09	1.08e-02	5.00e-04	5.99e-05	0.40	4.74e-02	0.0	0.0
206	193.985	0.005	0.202	0.03	3.10e-03	7.48e-05	8.97e-06	1.58	0.2	0.0	0.0
207	212.967	0.005	0.202	0.01	1.79e-03	0.07	8.15e-03	0.10	1.17e-02	0.0	0.0
208	218.658	0.005	0.202	5.62e-03	6.73e-04	0.03	3.95e-03	1.23	0.1	0.0	0.0
209	221.859	0.005	0.202	5.18e-03	6.21e-04	3.59e-03	4.30e-04	3.21	0.4	0.0	0.0
210	258.317	0.004	0.202	9.49e-04	1.14e-04	0.03	3.66e-03	3.03e-04	3.63e-05	0.0	0.0
211	265.516	0.004	0.202	5.36e-03	6.43e-04	1.77e-03	2.13e-04	2.57	0.3	0.0	0.0
212	274.266	0.004	0.202	0.13	1.54e-02	0.03	3.90e-03	0.09	1.06e-02	0.0	0.0
213	296.015	0.003	0.202	0.01	1.46e-03	0.10	1.15e-02	1.95e-04	2.34e-05	0.0	0.0
214	302.843	0.003	0.202	0.06	7.77e-03	1.95e-03	2.34e-04	3.13e-03	3.76e-04	0.0	0.0
215	339.502	0.003	0.202	1.30e-04	1.56e-05	0.0	0.0	0.85	0.1	0.0	0.0
216	348.154	0.003	0.202	6.23e-03	7.47e-04	1.54e-03	1.85e-04	6.91e-03	8.29e-04	0.0	0.0
217	367.049	0.003	0.202	3.61e-03	4.32e-04	2.83e-03	3.39e-04	0.04	4.23e-03	0.0	0.0
218	416.128	0.002	0.202	6.77e-05	8.11e-06	5.49e-05	6.58e-06	0.85	0.1	0.0	0.0
219	532.094	0.002	0.202	8.77e-05	1.05e-05	1.18e-03	1.42e-04	0.13	1.54e-02	0.0	0.0
220	559.446	0.002	0.202	4.54e-03	5.44e-04	2.81e-04	3.37e-05	0.31	3.75e-02	0.0	0.0
221	608.365	0.002	0.202	2.23e-04	2.67e-05	7.49e-05	8.98e-06	0.54	6.47e-02	0.0	0.0
222	810.356	0.001	0.202	1.25e-04	1.49e-05	6.16e-04	7.39e-05	1.25e-03	1.50e-04	0.0	0.0
223	919.698	0.001	0.202	5.83e-04	6.99e-05	1.25e-05	1.50e-06	0.09	1.06e-02	0.0	0.0
224	960.823	0.001	0.202	7.57e-05	9.08e-06	1.10e-05	1.32e-06	0.27	3.19e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

CDC	Tipo	Sigla Id	Note
20	Edk	CDC=Ed (dinamico SL CO) alfa=90.00 (ecc. -)	
			categoria suolo: da R.S.L.
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.423 sec.
			fattore q: 1.000
			classe di duttilità CD: B
			numero di modi considerati:224
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
13.90	23.82	5.40	3.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.70	66.24	5.40	3.40	-0.40	0.0	5.40	3.40	2.058	0.0	0.0
10.80	186.46	4.81	4.03	-0.54	0.0	5.16	4.36	1.147	0.067	0.070
9.60	4.59	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.054	0.0
8.40	4.37	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.052	0.0
7.20	193.78	5.37	3.44	-0.54	0.0	5.54	3.54	1.062	0.035	0.022
6.05	65.05	1.93	6.87	-0.30	0.0	2.50	6.80	1.411	0.154	0.024
6.00	4.59	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.054	0.0
4.80	4.37	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.052	0.0
3.60	203.91	5.36	3.44	-0.54	0.0	5.54	3.54	1.062	0.037	0.022
2.46	67.69	2.62	6.18	-0.38	0.0	3.03	6.33	1.281	0.090	0.042
2.40	4.59	8.53	3.40	-0.08	0.0	8.46	3.40	2.326	0.054	0.0
1.20	4.25	8.55	3.38	-0.08	0.0	8.46	3.40	2.326	0.067	0.022
0.40	0.36	7.80	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	834.06									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.843	1.187	0.206	9.92	1.2	7.57e-04	9.08e-05	0.0	0.0	0.0	0.0
2	0.846	1.182	0.207	0.03	3.69e-03	0.0	0.0	5.13e-06	0.0	0.0	0.0
3	1.049	0.953	0.229	2.03e-03	2.44e-04	11.07	1.3	1.21e-05	1.45e-06	0.0	0.0
4	1.054	0.949	0.230	1.22e-04	1.46e-05	0.03	3.07e-03	1.40e-05	1.67e-06	0.0	0.0
5	1.325	0.755	0.281	10.93	1.3	7.76e-03	9.31e-04	0.0	0.0	0.0	0.0
6	1.327	0.754	0.282	0.04	4.27e-03	6.86e-06	0.0	5.36e-06	0.0	0.0	0.0
7	1.419	0.705	0.330	4.42e-03	5.29e-04	10.12	1.2	1.46e-06	0.0	0.0	0.0
8	1.421	0.704	0.331	1.14e-04	1.37e-05	0.03	3.32e-03	9.32e-06	1.12e-06	0.0	0.0
9	1.510	0.662	0.359	6.74	0.8	1.34e-05	1.61e-06	1.30e-05	1.56e-06	0.0	0.0
10	1.517	0.659	0.360	0.01	1.60e-03	1.83e-04	2.20e-05	1.23e-05	1.48e-06	0.0	0.0
11	1.592	0.628	0.398	1.45e-06	0.0	3.29	0.4	0.0	0.0	0.0	0.0
12	2.334	0.428	0.464	29.14	3.5	92.66	11.1	6.17e-03	7.40e-04	0.0	0.0
13	2.363	0.423	0.471	139.46	16.7	273.97	32.8	0.03	3.62e-03	0.0	0.0
14	2.940	0.340	0.588	307.13	36.8	157.95	18.9	0.02	2.14e-03	0.0	0.0
15	3.517	0.284	0.609	34.20	4.1	19.01	2.3	2.60e-06	0.0	0.0	0.0
16	3.648	0.274	0.602	23.60	2.8	1.62	0.2	2.35e-03	2.82e-04	0.0	0.0
17	3.977	0.251	0.561	0.07	8.34e-03	37.95	4.6	0.12	1.45e-02	0.0	0.0
18	4.035	0.248	0.542	0.67	8.03e-02	19.63	2.4	6.54e-04	7.85e-05	0.0	0.0
19	4.229	0.236	0.488	0.29	3.54e-02	2.84e-04	3.41e-05	2.12e-04	2.54e-05	0.0	0.0
20	4.629	0.216	0.421	2.12e-03	2.54e-04	15.37	1.8	1.53e-05	1.83e-06	0.0	0.0
21	5.141	0.195	0.417	19.19	2.3	4.56e-05	5.46e-06	1.59e-05	1.90e-06	0.0	0.0
22	5.591	0.179	0.412	19.13	2.3	6.31e-06	0.0	0.31	3.72e-02	0.0	0.0
23	5.858	0.171	0.399	0.84	0.1	0.28	3.41e-02	5.56e-03	6.66e-04	0.0	0.0
24	6.010	0.166	0.392	5.89	0.7	8.26	1.0	0.01	1.59e-03	0.0	0.0
25	6.395	0.156	0.376	2.85	0.3	1.44	0.2	0.02	1.81e-03	0.0	0.0
26	6.816	0.147	0.359	6.87	0.8	5.57e-04	6.68e-05	7.04e-03	8.44e-04	0.0	0.0
27	7.023	0.142	0.352	33.46	4.0	0.40	4.78e-02	0.03	4.14e-03	0.0	0.0
28	7.183	0.139	0.347	0.10	1.25e-02	1.69	0.2	0.01	1.76e-03	0.0	0.0
29	7.374	0.136	0.341	33.11	4.0	0.88	0.1	0.15	1.84e-02	0.0	0.0
30	7.654	0.131	0.333	9.83e-04	1.18e-04	0.69	8.32e-02	0.73	8.81e-02	0.0	0.0
31	7.889	0.127	0.327	3.32	0.4	14.14	1.7	0.10	1.22e-02	0.0	0.0
32	8.150	0.123	0.320	0.12	1.45e-02	17.74	2.1	0.04	4.87e-03	0.0	0.0
33	8.472	0.118	0.315	15.22	1.8	21.73	2.6	7.03e-03	8.43e-04	0.0	0.0
34	8.670	0.115	0.315	3.15	0.4	5.44	0.7	0.03	3.38e-03	0.0	0.0
35	9.008	0.111	0.314	0.76	9.05e-02	1.78	0.2	0.04	5.09e-03	0.0	0.0
36	9.350	0.107	0.313	2.38	0.3	8.66	1.0	0.04	4.56e-03	0.0	0.0
37	9.796	0.102	0.312	0.12	1.44e-02	0.79	9.45e-02	4.99e-04	5.98e-05	0.0	0.0
38	10.422	0.096	0.302	10.62	1.3	0.05	6.02e-03	2.53	0.3	0.0	0.0
39	10.541	0.095	0.300	1.71	0.2	0.42	5.05e-02	0.50	6.02e-02	0.0	0.0
40	10.699	0.093	0.297	3.03	0.4	0.25	3.03e-02	2.73	0.3	0.0	0.0
41	10.781	0.093	0.295	2.52	0.3	1.26	0.2	0.10	1.24e-02	0.0	0.0
42	11.771	0.085	0.278	1.08e-03	1.29e-04	5.60	0.7	5.85e-04	7.01e-05	0.0	0.0
43	12.184	0.082	0.272	5.76e-03	6.90e-04	3.51	0.4	0.02	2.24e-03	0.0	0.0
44	12.418	0.081	0.268	5.71	0.7	13.47	1.6	10.27	1.2	0.0	0.0
45	12.497	0.080	0.267	2.73	0.3	5.39	0.6	25.36	3.0	0.0	0.0
46	13.194	0.076	0.258	9.27	1.1	0.18	2.15e-02	0.02	2.30e-03	0.0	0.0
47	13.433	0.074	0.256	4.03	0.5	0.51	6.11e-02	0.08	9.41e-03	0.0	0.0
48	13.598	0.074	0.254	4.79	0.6	0.62	7.38e-02	0.61	7.30e-02	0.0	0.0
49	13.800	0.072	0.251	0.19	2.32e-02	2.33e-04	2.79e-05	2.57	0.3	0.0	0.0
50	13.893	0.072	0.250	0.07	8.35e-03	0.80	9.59e-02	0.02	2.82e-03	0.0	0.0
51	14.240	0.070	0.247	5.27	0.6	0.09	1.06e-02	0.35	4.18e-02	0.0	0.0
52	14.359	0.070	0.246	1.51	0.2	0.91	0.1	3.46	0.4	0.0	0.0
53	14.583	0.069	0.243	0.21	2.54e-02	0.20	2.39e-02	0.05	5.44e-03	0.0	0.0
54	14.843	0.067	0.241	0.01	1.22e-03	0.31	3.69e-02	9.56e-03	1.15e-03	0.0	0.0
55	15.258	0.066	0.237	3.11	0.4	0.14	1.67e-02	0.03	3.44e-03	0.0	0.0
56	15.294	0.065	0.237	2.31e-03	2.77e-04	3.85e-03	4.62e-04	0.01	1.32e-03	0.0	0.0
57	15.411	0.065	0.236	0.03	3.27e-03	0.91	0.1	4.99e-03	5.99e-04	0.0	0.0
58	15.647	0.064	0.234	0.81	9.73e-02	3.26	0.4	0.03	3.35e-03	0.0	0.0
59	15.770	0.063	0.233	1.48	0.2	1.55	0.2	2.08e-03	2.50e-04	0.0	0.0
60	16.010	0.062	0.231	1.02	0.1	0.49	5.86e-02	4.25e-03	5.10e-04	0.0	0.0
61	16.032	0.062	0.230	9.83e-06	1.18e-06	1.32	0.2	8.71	1.0	0.0	0.0
62	16.348	0.061	0.228	0.78	9.37e-02	1.79	0.2	7.12	0.9	0.0	0.0
63	16.411	0.061	0.227	9.28e-03	1.11e-03	5.45	0.7	2.28	0.3	0.0	0.0
64	16.452	0.061	0.227	2.88	0.3	6.49	0.8	0.10	1.16e-02	0.0	0.0
65	16.679	0.060	0.225	5.70	0.7	0.92	0.1	0.34	4.06e-02	0.0	0.0
66	16.831	0.059	0.225	1.07	0.1	3.41	0.4	2.24e-05	2.68e-06	0.0	0.0
67	17.462	0.057	0.223	1.59	0.2	4.92	0.6	0.09	1.09e-02	0.0	0.0
68	17.651	0.057	0.222	0.23	2.79e-02	0.23	2.70e-02	0.09	1.12e-02	0.0	0.0
69	18.251	0.055	0.220	3.16e-05	3.78e-06	0.89	0.1	0.08	9.17e-03	0.0	0.0
70	18.322	0.055	0.220	0.58	6.93e-02	0.03	4.07e-03	0.05	6.02e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
71	18.397	0.054	0.220	0.04	4.65e-03	5.53	0.7	3.32	0.4	0.0	0.0
72	18.514	0.054	0.219	2.45	0.3	1.86	0.2	0.48	5.78e-02	0.0	0.0
73	18.561	0.054	0.219	0.47	5.63e-02	0.48	5.75e-02	0.04	5.05e-03	0.0	0.0
74	19.007	0.053	0.218	7.14	0.9	0.63	7.59e-02	8.73	1.0	0.0	0.0
75	19.084	0.052	0.218	0.06	6.98e-03	1.94	0.2	0.04	4.46e-03	0.0	0.0
76	19.724	0.051	0.216	0.92	0.1	0.54	6.52e-02	0.03	3.50e-03	0.0	0.0
77	20.377	0.049	0.214	5.01e-03	6.00e-04	0.63	7.59e-02	14.77	1.8	0.0	0.0
78	20.737	0.048	0.214	0.05	6.41e-03	0.09	1.07e-02	5.77	0.7	0.0	0.0
79	21.820	0.046	0.211	1.60	0.2	0.08	9.85e-03	2.31	0.3	0.0	0.0
80	22.443	0.045	0.210	0.20	2.46e-02	0.24	2.93e-02	15.74	1.9	0.0	0.0
81	22.648	0.044	0.209	1.01	0.1	7.13e-03	8.55e-04	9.20	1.1	0.0	0.0
82	23.159	0.043	0.209	0.01	1.55e-03	0.06	6.82e-03	7.79	0.9	0.0	0.0
83	23.504	0.043	0.208	0.04	5.00e-03	0.78	9.36e-02	1.22	0.1	0.0	0.0
84	24.945	0.040	0.205	1.02	0.1	0.07	8.90e-03	0.02	2.55e-03	0.0	0.0
85	25.063	0.040	0.205	3.70e-03	4.43e-04	0.23	2.75e-02	0.21	2.50e-02	0.0	0.0
86	25.354	0.039	0.205	0.39	4.71e-02	1.40e-03	1.68e-04	0.36	4.30e-02	0.0	0.0
87	25.456	0.039	0.205	0.78	9.32e-02	2.76e-04	3.31e-05	2.84e-03	3.40e-04	0.0	0.0
88	25.671	0.039	0.205	0.07	8.43e-03	0.15	1.80e-02	2.85	0.3	0.0	0.0
89	26.022	0.038	0.205	0.07	8.29e-03	1.59e-04	1.91e-05	0.16	1.88e-02	0.0	0.0
90	26.321	0.038	0.205	3.29	0.4	0.01	1.41e-03	0.03	3.25e-03	0.0	0.0
91	26.636	0.038	0.205	0.02	2.34e-03	0.15	1.81e-02	1.52	0.2	0.0	0.0
92	26.716	0.037	0.205	0.19	2.23e-02	0.52	6.26e-02	0.13	1.55e-02	0.0	0.0
93	27.349	0.037	0.205	0.01	1.43e-03	1.08	0.1	0.14	1.70e-02	0.0	0.0
94	28.118	0.036	0.205	1.16e-03	1.39e-04	9.41e-03	1.13e-03	8.11	1.0	0.0	0.0
95	28.232	0.035	0.205	0.01	1.78e-03	0.04	4.79e-03	53.87	6.5	0.0	0.0
96	28.556	0.035	0.205	1.79	0.2	0.02	2.17e-03	0.04	4.66e-03	0.0	0.0
97	28.717	0.035	0.204	0.23	2.73e-02	0.55	6.54e-02	0.61	7.28e-02	0.0	0.0
98	29.090	0.034	0.204	0.03	3.56e-03	0.72	8.61e-02	0.04	5.34e-03	0.0	0.0
99	29.934	0.033	0.204	1.59	0.2	0.21	2.51e-02	0.01	1.33e-03	0.0	0.0
100	30.524	0.033	0.204	2.67	0.3	0.02	1.83e-03	8.77e-03	1.05e-03	0.0	0.0
101	31.530	0.032	0.204	2.39	0.3	0.04	5.03e-03	0.02	2.00e-03	0.0	0.0
102	31.787	0.031	0.204	0.06	7.52e-03	4.14e-04	4.97e-05	4.60	0.6	0.0	0.0
103	34.455	0.029	0.204	8.39e-04	1.01e-04	3.22e-03	3.86e-04	10.69	1.3	0.0	0.0
104	35.210	0.028	0.203	4.74	0.6	0.06	7.58e-03	1.33	0.2	0.0	0.0
105	36.237	0.028	0.203	1.91e-04	2.29e-05	0.05	5.65e-03	2.82	0.3	0.0	0.0
106	36.288	0.028	0.203	2.28e-03	2.74e-04	0.09	1.07e-02	2.72	0.3	0.0	0.0
107	36.584	0.027	0.203	0.20	2.37e-02	5.87e-06	0.0	0.03	4.05e-03	0.0	0.0
108	36.948	0.027	0.203	3.38e-04	4.05e-05	2.22e-04	2.67e-05	27.17	3.3	0.0	0.0
109	37.134	0.027	0.203	4.12e-05	4.94e-06	4.75e-03	5.70e-04	0.03	3.44e-03	0.0	0.0
110	37.695	0.027	0.203	0.02	2.49e-03	4.79e-04	5.74e-05	6.01e-03	7.21e-04	0.0	0.0
111	38.069	0.026	0.203	0.04	4.94e-03	1.88e-03	2.25e-04	2.51e-03	3.00e-04	0.0	0.0
112	39.523	0.025	0.203	8.90e-05	1.07e-05	0.40	4.79e-02	5.94e-06	0.0	0.0	0.0
113	40.357	0.025	0.203	2.25e-05	2.70e-06	0.01	1.31e-03	0.02	2.58e-03	0.0	0.0
114	41.204	0.024	0.203	2.86e-04	3.43e-05	0.0	0.0	59.88	7.2	0.0	0.0
115	41.408	0.024	0.203	8.65e-03	1.04e-03	8.50e-06	1.02e-06	0.05	5.61e-03	0.0	0.0
116	41.712	0.024	0.203	0.01	1.52e-03	9.77e-03	1.17e-03	0.13	1.57e-02	0.0	0.0
117	41.754	0.024	0.203	0.03	3.67e-03	9.88e-03	1.18e-03	17.67	2.1	0.0	0.0
118	41.978	0.024	0.203	6.04e-03	7.25e-04	6.57e-03	7.88e-04	0.01	1.55e-03	0.0	0.0
119	43.711	0.023	0.203	0.29	3.42e-02	1.95	0.2	4.59e-03	5.50e-04	0.0	0.0
120	44.895	0.022	0.202	1.14e-03	1.36e-04	0.12	1.41e-02	0.03	3.50e-03	0.0	0.0
121	45.059	0.022	0.202	3.03e-06	0.0	9.77	1.2	1.50e-03	1.80e-04	0.0	0.0
122	45.622	0.022	0.202	1.43e-03	1.71e-04	0.02	2.02e-03	0.56	6.72e-02	0.0	0.0
123	46.332	0.022	0.202	3.99e-04	4.78e-05	0.02	1.92e-03	43.65	5.2	0.0	0.0
124	46.448	0.022	0.202	6.57e-03	7.88e-04	5.34e-04	6.41e-05	2.66	0.3	0.0	0.0
125	46.850	0.021	0.202	0.08	9.24e-03	0.97	0.1	3.41	0.4	0.0	0.0
126	46.916	0.021	0.202	0.08	1.00e-02	0.99	0.1	8.45	1.0	0.0	0.0
127	47.402	0.021	0.202	1.14e-03	1.37e-04	0.04	4.36e-03	11.54	1.4	0.0	0.0
128	49.258	0.020	0.202	2.68e-03	3.22e-04	9.18e-05	1.10e-05	102.43	12.3	0.0	0.0
129	49.698	0.020	0.202	0.04	4.26e-03	0.01	1.41e-03	3.73	0.4	0.0	0.0
130	49.856	0.020	0.202	7.63	0.9	4.09e-05	4.91e-06	0.25	2.95e-02	0.0	0.0
131	50.879	0.020	0.202	9.60e-03	1.15e-03	0.13	1.57e-02	27.22	3.3	0.0	0.0
132	52.820	0.019	0.202	1.12e-06	0.0	4.20e-06	0.0	37.17	4.5	0.0	0.0
133	53.494	0.019	0.202	1.08e-06	0.0	1.02e-03	1.22e-04	16.36	2.0	0.0	0.0
134	54.116	0.018	0.202	0.02	2.93e-03	0.0	0.0	16.49	2.0	0.0	0.0
135	54.346	0.018	0.202	0.08	9.41e-03	0.0	0.0	5.61e-05	6.73e-06	0.0	0.0
136	54.515	0.018	0.202	2.77e-06	0.0	0.07	7.90e-03	2.82e-05	3.38e-06	0.0	0.0
137	54.983	0.018	0.202	4.31e-03	5.17e-04	0.02	2.88e-03	29.26	3.5	0.0	0.0
138	55.350	0.018	0.202	6.13e-06	0.0	1.11e-04	1.34e-05	7.70e-03	9.23e-04	0.0	0.0
139	55.644	0.018	0.202	1.89e-03	2.26e-04	8.96e-06	1.07e-06	0.01	1.55e-03	0.0	0.0
140	55.711	0.018	0.202	0.09	1.05e-02	1.94e-03	2.32e-04	0.03	3.67e-03	0.0	0.0
141	56.685	0.018	0.202	1.71e-03	2.05e-04	0.02	2.50e-03	0.45	5.40e-02	0.0	0.0
142	56.772	0.018	0.202	1.71e-05	2.05e-06	7.34	0.9	5.71	0.7	0.0	0.0
143	58.235	0.017	0.202	7.38	0.9	0.0	0.0	5.02	0.6	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
144	58.984	0.017	0.202	0.01	1.37e-03	4.68e-04	5.61e-05	3.14	0.4	0.0	0.0
145	59.098	0.017	0.202	0.09	1.13e-02	5.39e-03	6.46e-04	30.89	3.7	0.0	0.0
146	60.270	0.017	0.202	4.38e-04	5.26e-05	3.05e-04	3.66e-05	3.03e-03	3.63e-04	0.0	0.0
147	60.691	0.016	0.202	1.74e-03	2.08e-04	9.49e-06	1.14e-06	7.83	0.9	0.0	0.0
148	60.694	0.016	0.202	5.54e-05	6.64e-06	2.47e-04	2.97e-05	17.11	2.1	0.0	0.0
149	61.147	0.016	0.202	2.93e-03	3.52e-04	9.84e-04	1.18e-04	1.25e-03	1.50e-04	0.0	0.0
150	61.313	0.016	0.202	1.25e-06	0.0	0.29	3.44e-02	1.73e-03	2.08e-04	0.0	0.0
151	61.691	0.016	0.202	1.32e-04	1.58e-05	0.0	0.0	13.92	1.7	0.0	0.0
152	61.729	0.016	0.202	2.19e-06	0.0	4.46e-04	5.35e-05	13.56	1.6	0.0	0.0
153	63.119	0.016	0.202	0.23	2.79e-02	1.73e-06	0.0	0.03	3.44e-03	0.0	0.0
154	63.646	0.016	0.202	1.04	0.1	0.02	2.98e-03	3.97	0.5	0.0	0.0
155	64.947	0.015	0.202	0.68	8.13e-02	0.04	5.15e-03	1.15	0.1	0.0	0.0
156	67.288	0.015	0.202	4.28e-04	5.13e-05	8.76e-04	1.05e-04	0.03	3.53e-03	0.0	0.0
157	69.048	0.014	0.202	2.56e-04	3.07e-05	3.32e-05	3.99e-06	0.14	1.67e-02	0.0	0.0
158	70.053	0.014	0.202	7.54e-03	9.04e-04	4.70e-04	5.63e-05	0.07	8.27e-03	0.0	0.0
159	70.171	0.014	0.202	0.05	5.88e-03	8.88e-04	1.06e-04	0.04	4.86e-03	0.0	0.0
160	70.991	0.014	0.202	9.38e-04	1.12e-04	6.71e-03	8.05e-04	0.33	3.96e-02	0.0	0.0
161	72.839	0.014	0.202	1.34e-03	1.60e-04	1.37e-03	1.65e-04	0.28	3.34e-02	0.0	0.0
162	75.138	0.013	0.202	3.47e-03	4.17e-04	0.12	1.42e-02	1.97e-03	2.37e-04	0.0	0.0
163	75.326	0.013	0.202	0.05	5.82e-03	0.03	3.08e-03	6.82e-06	0.0	0.0	0.0
164	75.379	0.013	0.202	0.04	4.99e-03	0.04	4.26e-03	0.03	3.33e-03	0.0	0.0
165	76.669	0.013	0.202	7.46e-04	8.94e-05	0.03	3.80e-03	0.34	4.12e-02	0.0	0.0
166	77.123	0.013	0.202	1.08e-04	1.29e-05	0.01	1.57e-03	0.53	6.38e-02	0.0	0.0
167	78.562	0.013	0.202	0.19	2.28e-02	4.52e-04	5.42e-05	0.07	7.94e-03	0.0	0.0
168	79.384	0.013	0.202	9.04e-03	1.08e-03	0.02	1.85e-03	0.60	7.23e-02	0.0	0.0
169	79.912	0.013	0.202	2.51e-04	3.00e-05	1.23e-05	1.47e-06	15.31	1.8	0.0	0.0
170	81.310	0.012	0.202	6.81e-03	8.16e-04	5.31e-03	6.37e-04	0.23	2.75e-02	0.0	0.0
171	82.861	0.012	0.202	1.12e-03	1.34e-04	0.23	2.75e-02	2.51e-03	3.01e-04	0.0	0.0
172	83.176	0.012	0.202	2.60e-05	3.12e-06	0.13	1.58e-02	3.21	0.4	0.0	0.0
173	84.337	0.012	0.202	2.04e-03	2.45e-04	1.86e-03	2.23e-04	1.97	0.2	0.0	0.0
174	85.106	0.012	0.202	5.17e-05	6.20e-06	0.01	1.63e-03	0.13	1.55e-02	0.0	0.0
175	86.990	0.011	0.202	6.27e-04	7.52e-05	1.74e-03	2.09e-04	0.99	0.1	0.0	0.0
176	88.652	0.011	0.202	1.49e-03	1.79e-04	6.72e-05	8.06e-06	0.26	3.14e-02	0.0	0.0
177	90.027	0.011	0.202	2.98e-04	3.58e-05	0.28	3.38e-02	0.79	9.43e-02	0.0	0.0
178	91.659	0.011	0.202	3.13e-05	3.75e-06	0.02	2.39e-03	0.48	5.80e-02	0.0	0.0
179	92.321	0.011	0.202	0.05	6.43e-03	3.98e-04	4.77e-05	4.33e-03	5.20e-04	0.0	0.0
180	95.649	0.010	0.202	2.12e-05	2.54e-06	0.14	1.69e-02	0.07	8.80e-03	0.0	0.0
181	96.339	0.010	0.202	9.69e-05	1.16e-05	0.05	5.74e-03	0.79	9.42e-02	0.0	0.0
182	97.162	0.010	0.202	1.75e-03	2.09e-04	0.27	3.23e-02	0.09	1.03e-02	0.0	0.0
183	98.593	0.010	0.202	4.14e-03	4.97e-04	0.01	1.76e-03	0.24	2.83e-02	0.0	0.0
184	100.495	0.010	0.202	0.01	1.53e-03	6.29e-03	7.54e-04	0.36	4.26e-02	0.0	0.0
185	102.163	0.010	0.202	2.93e-03	3.51e-04	4.08e-03	4.89e-04	3.58	0.4	0.0	0.0
186	106.224	0.009	0.202	1.94e-05	2.33e-06	3.32e-05	3.98e-06	7.04	0.8	0.0	0.0
187	106.843	0.009	0.202	8.01e-06	0.0	8.51e-03	1.02e-03	0.05	5.47e-03	0.0	0.0
188	113.315	0.009	0.202	4.84e-04	5.80e-05	7.30e-05	8.75e-06	0.05	5.55e-03	0.0	0.0
189	114.611	0.009	0.202	8.04e-03	9.64e-04	3.66e-04	4.39e-05	4.43e-03	5.31e-04	0.0	0.0
190	115.756	0.009	0.202	6.60e-05	7.92e-06	0.06	7.61e-03	2.72e-03	3.26e-04	0.0	0.0
191	127.977	0.008	0.202	3.82e-03	4.58e-04	0.03	3.47e-03	0.05	5.49e-03	0.0	0.0
192	130.101	0.008	0.202	0.17	2.09e-02	0.14	1.74e-02	0.03	3.15e-03	0.0	0.0
193	133.711	0.007	0.202	5.83e-03	6.99e-04	2.16e-05	2.59e-06	3.11	0.4	0.0	0.0
194	136.216	0.007	0.202	0.69	8.29e-02	0.08	9.95e-03	0.04	5.25e-03	0.0	0.0
195	137.326	0.007	0.202	0.02	2.04e-03	0.04	4.78e-03	2.40e-03	2.88e-04	0.0	0.0
196	145.308	0.007	0.202	0.05	6.01e-03	0.02	1.96e-03	11.91	1.4	0.0	0.0
197	147.282	0.007	0.202	0.15	1.81e-02	0.15	1.75e-02	6.55	0.8	0.0	0.0
198	149.084	0.007	0.202	0.21	2.46e-02	0.02	2.90e-03	0.16	1.93e-02	0.0	0.0
199	155.238	0.006	0.202	2.45e-03	2.94e-04	5.83e-03	7.00e-04	8.68	1.0	0.0	0.0
200	161.974	0.006	0.202	0.19	2.23e-02	0.04	4.61e-03	0.02	2.29e-03	0.0	0.0
201	168.167	0.006	0.202	0.19	2.22e-02	0.07	8.61e-03	1.23	0.1	0.0	0.0
202	171.618	0.006	0.202	1.59e-03	1.90e-04	4.99e-03	5.98e-04	10.35	1.2	0.0	0.0
203	177.770	0.006	0.202	0.03	4.02e-03	0.15	1.83e-02	0.18	2.12e-02	0.0	0.0
204	185.408	0.005	0.202	0.05	5.96e-03	0.03	3.41e-03	0.29	3.44e-02	0.0	0.0
205	190.880	0.005	0.202	0.04	4.43e-03	4.24e-04	5.09e-05	1.57	0.2	0.0	0.0
206	195.332	0.005	0.202	0.04	4.57e-03	7.01e-04	8.41e-05	1.20	0.1	0.0	0.0
207	212.623	0.005	0.202	0.01	1.76e-03	0.06	6.72e-03	0.09	1.12e-02	0.0	0.0
208	220.383	0.005	0.202	6.81e-04	8.16e-05	0.02	2.73e-03	3.25	0.4	0.0	0.0
209	225.036	0.004	0.202	9.38e-03	1.12e-03	0.04	4.22e-03	0.97	0.1	0.0	0.0
210	253.606	0.004	0.202	6.42e-04	7.69e-05	0.10	1.17e-02	5.74e-03	6.88e-04	0.0	0.0
211	265.098	0.004	0.202	8.94e-03	1.07e-03	1.24e-03	1.49e-04	2.52	0.3	0.0	0.0
212	269.754	0.004	0.202	0.09	1.08e-02	0.03	3.61e-03	0.17	2.08e-02	0.0	0.0
213	289.159	0.003	0.202	0.06	6.90e-03	0.03	3.56e-03	5.02e-03	6.01e-04	0.0	0.0
214	303.622	0.003	0.202	0.05	6.49e-03	3.11e-03	3.73e-04	0.01	1.34e-03	0.0	0.0
215	335.457	0.003	0.202	3.41e-04	4.08e-05	3.33e-05	3.99e-06	0.81	9.68e-02	0.0	0.0
216	351.606	0.003	0.202	9.32e-03	1.12e-03	3.91e-05	4.68e-06	0.02	2.00e-03	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
217	389.391	0.003	0.202	8.63e-04	1.04e-04	2.11e-03	2.53e-04	0.13	1.59e-02	0.0	0.0
218	415.459	0.002	0.202	1.48e-05	1.77e-06	1.15e-06	0.0	0.78	9.39e-02	0.0	0.0
219	542.583	0.002	0.202	7.21e-04	8.64e-05	7.83e-04	9.38e-05	0.32	3.81e-02	0.0	0.0
220	563.170	0.002	0.202	4.00e-03	4.80e-04	6.66e-04	7.99e-05	0.13	1.60e-02	0.0	0.0
221	609.924	0.002	0.202	1.22e-04	1.46e-05	1.65e-05	1.98e-06	0.54	6.47e-02	0.0	0.0
222	819.985	0.001	0.202	1.25e-04	1.50e-05	5.44e-04	6.52e-05	5.99e-03	7.18e-04	0.0	0.0
223	918.591	0.001	0.202	5.83e-04	6.99e-05	1.57e-05	1.88e-06	0.08	9.82e-03	0.0	0.0
224	962.252	0.001	0.202	7.29e-05	8.74e-06	1.66e-05	2.00e-06	0.27	3.21e-02	0.0	0.0
Risulta				833.71		833.71		833.70			
In percentuale				99.96		99.96		99.96			

Cmb	Pilas.	1000 etaT/h	etaT mm	inter. h cm	Pilas.	1000 etaT/h	etaT mm	inter. h cm	Pilas.	1000 etaT/h	etaT mm	inter. h cm
51	1	0.08	0.10	120.0	98	0.75	2.71	360.0	99	0.42	1.51	360.0
	100	0.85	3.05	360.0	101	0.19	0.15	80.0	102	0.43	0.52	120.0
	103	0.08	0.06	80.0	104	0.36	0.43	120.0	105	0.37	0.45	120.0
	106	0.27	1.19	440.0	107	0.51	1.84	360.0	108	0.59	2.11	360.0
	109	0.36	1.59	440.0	110	0.68	2.46	360.0	111	0.79	2.84	360.0
	112	0.53	2.35	440.0	113	0.74	2.68	360.0	114	0.70	2.52	360.0
	115	0.72	2.35	325.5	116	0.91	4.34	474.5	117	1.06	5.01	474.5
	118	2.14	6.96	325.5	119	1.09	2.68	245.5	120	0.97	3.47	360.0
	121	0.44	0.36	80.0	122	0.78	1.91	245.5	123	0.67	2.40	360.0
	124	0.11	0.08	80.0	125	0.75	2.69	360.0	126	0.84	3.04	360.0
	127	1.40	2.66	190.0	129	1.03	1.95	190.0	132	1.53	2.92	190.0
	134	0.71	2.55	360.0	135	1.27	2.41	190.0	137	1.43	2.72	190.0
	138	1.26	2.39	190.0	141	1.14	2.16	190.0	144	0.73	1.39	190.0
	145	0.69	3.03	440.0	146	0.98	3.52	360.0	147	0.73	2.62	360.0
	165	0.90	3.22	360.0	204	0.53	1.91	360.0	205	3.27	3.74	114.5
	207	1.49	3.65	245.5	212	0.65	2.32	360.0	215	1.34	4.37	325.5
	223	0.85	3.07	360.0	231	1.17	2.86	245.5	237	0.63	2.25	360.0
	244	0.07	0.06	80.0	245	0.30	0.36	120.0	246	0.38	0.45	120.0
	247	0.30	0.36	120.0	248	0.23	0.27	120.0	249	7.85e-03	6.28e-03	80.0
	254	0.87	3.12	360.0	267	0.49	2.16	440.0	275	0.67	2.19	325.5
	284	2.12	6.90	325.5	296	0.14	0.11	80.0	304	0.74	2.67	360.0
	310	0.24	0.29	120.0	311	0.53	0.64	120.0	312	0.57	0.69	120.0
	313	0.21	0.25	120.0	314	0.48	0.57	120.0	315	0.52	0.62	120.0
	316	0.16	0.19	120.0	317	0.34	0.41	120.0	318	0.39	0.47	120.0
	319	0.31	0.37	120.0	320	0.26	0.32	120.0	321	0.02	6.28e-03	40.0
	322	0.31	0.38	120.0	323	0.45	0.54	120.0	324	0.68	0.82	120.0
	325	0.28	0.33	120.0	326	0.38	0.46	120.0	327	0.63	0.75	120.0
	328	0.19	0.23	120.0	329	0.37	0.44	120.0	330	0.40	0.49	120.0
	331	0.31	0.38	120.0	332	0.29	0.34	120.0	333	0.13	0.10	80.0
	334	0.31	0.37	120.0	335	0.25	0.30	120.0	336	0.26	0.32	120.0
	337	0.16	0.19	120.0	338	0.19	0.23	120.0	348	0.40	1.77	440.0
	350	0.47	2.08	440.0	356	0.98	3.19	325.5	363	1.00	3.25	325.5
	364	1.08	3.52	325.5	369	1.06	3.46	325.5	375	0.39	0.31	80.0
	376	1.77	2.02	114.5	379	1.53	5.50	360.0	381	0.88	2.17	245.5
	382	0.62	2.23	360.0	383	0.50	1.82	360.0	384	0.52	1.88	360.0
	385	1.66	4.09	245.5	386	0.46	1.67	360.0	390	0.73	2.37	325.5
	392	1.24	1.41	114.5	393	1.15	4.13	360.0	396	0.09	0.07	80.0
	397	0.40	0.48	120.0	398	0.50	0.57	114.5	399	2.16	2.48	114.5
	403	0.60	0.69	114.5	407	0.95	3.41	360.0	408	0.81	2.92	360.0
	421	0.92	1.05	114.5	422	1.12	5.30	474.5	423	0.80	0.92	114.5
	424	1.02	4.84	474.5	425	1.12	4.02	360.0	429	0.91	3.29	360.0
	433	0.56	2.48	440.0	434	0.91	3.27	360.0	435	0.91	3.27	360.0
	436	0.66	2.92	440.0	437	1.00	3.58	360.0	438	0.88	3.17	360.0
	439	0.65	2.88	440.0	440	0.98	3.53	360.0	441	0.87	3.14	360.0
	442	0.22	0.18	80.0	443	0.87	3.14	360.0				
52	1	0.18	0.22	120.0	98	1.00	3.60	360.0	99	1.45	5.21	360.0
	100	1.63	5.85	360.0	101	0.10	0.08	80.0	102	0.71	0.85	120.0
	103	0.20	0.16	80.0	104	0.84	1.01	120.0	105	0.81	0.98	120.0
	106	0.62	2.75	440.0	107	1.15	4.12	360.0	108	1.30	4.69	360.0
	109	0.75	3.28	440.0	110	1.39	5.01	360.0	111	1.65	5.93	360.0
	112	1.09	4.81	440.0	113	1.55	5.56	360.0	114	1.40	5.04	360.0
	115	0.71	2.31	325.5	116	1.76	8.36	474.5	117	1.86	8.82	474.5
	118	1.24	4.04	325.5	119	4.58	11.24	245.5	120	1.60	5.74	360.0
	121	0.29	0.24	80.0	122	3.34	8.21	245.5	123	1.25	4.50	360.0
	124	0.22	0.18	80.0	125	1.48	5.32	360.0	126	1.71	6.14	360.0
	127	2.71	5.15	190.0	129	2.02	3.84	190.0	132	2.90	5.50	190.0
	134	1.61	5.80	360.0	135	2.12	4.03	190.0	137	2.67	5.07	190.0
	138	2.39	4.54	190.0	141	2.07	3.94	190.0	144	1.65	3.13	190.0
	145	1.16	5.10	440.0	146	1.75	6.29	360.0	147	1.50	5.42	360.0
	165	1.56	5.63	360.0	204	1.18	4.26	360.0	205	1.78	2.04	114.5
	207	2.45	6.02	245.5	212	2.63	9.48	360.0	215	0.76	2.47	325.5

	223	3.73	13.43	360.0	231	2.04	5.00	245.5	237	1.41	5.08	360.0
	244	0.04	0.04	80.0	245	0.35	0.42	120.0	246	0.44	0.52	120.0
	247	0.57	0.68	120.0	248	0.44	0.52	120.0	249	0.02	0.02	80.0
	254	1.67	6.03	360.0	267	0.92	4.05	440.0	275	0.47	1.53	325.5
	284	1.12	3.65	325.5	296	0.25	0.20	80.0	304	1.40	5.04	360.0
	310	0.53	0.63	120.0	311	1.15	1.38	120.0	312	1.17	1.41	120.0
	313	0.53	0.64	120.0	314	1.16	1.39	120.0	315	1.21	1.46	120.0
	316	0.10	0.12	120.0	317	0.39	0.47	120.0	318	0.45	0.54	120.0
	319	0.59	0.70	120.0	320	0.50	0.60	120.0	321	0.04	0.02	40.0
	322	0.68	0.81	120.0	323	0.80	0.96	120.0	324	1.42	1.71	120.0
	325	0.68	0.82	120.0	326	0.87	1.04	120.0	327	1.48	1.77	120.0
	328	0.31	0.37	120.0	329	0.43	0.51	120.0	330	0.46	0.55	120.0
	331	0.59	0.71	120.0	332	0.54	0.65	120.0	333	0.25	0.20	80.0
	334	0.53	0.64	120.0	335	0.58	0.69	120.0	336	0.30	0.36	120.0
	337	0.30	0.36	120.0	338	0.36	0.43	120.0	348	0.77	3.38	440.0
	350	0.84	3.68	440.0	356	0.97	3.14	325.5	363	1.10	3.58	325.5
	364	1.69	5.50	325.5	369	1.61	5.23	325.5	375	0.24	0.19	80.0
	376	2.70	3.10	114.5	379	2.45	8.81	360.0	381	1.56	3.83	245.5
	382	1.31	4.71	360.0	383	0.92	3.31	360.0	384	0.68	2.46	360.0
	385	1.06	2.59	245.5	386	0.91	3.27	360.0	390	1.08	3.53	325.5
	392	2.00	2.29	114.5	393	1.94	6.99	360.0	396	0.20	0.16	80.0
	397	0.77	0.93	120.0	398	0.90	1.03	114.5	399	1.27	1.46	114.5
	403	1.22	1.40	114.5	407	1.44	5.18	360.0	408	1.49	5.35	360.0
	421	1.64	1.88	114.5	422	2.04	9.69	474.5	423	1.47	1.68	114.5
	424	1.85	8.80	474.5	425	2.06	7.42	360.0	429	1.73	6.22	360.0
	433	1.09	4.78	440.0	434	1.80	6.49	360.0	435	1.77	6.37	360.0
	436	1.35	5.93	440.0	437	2.07	7.44	360.0	438	1.74	6.27	360.0
	439	1.37	6.02	440.0	440	2.07	7.44	360.0	441	1.71	6.17	360.0
	442	0.26	0.21	80.0	443	1.80	6.46	360.0				
53	1	0.17	0.20	120.0	98	0.92	3.32	360.0	99	1.32	4.75	360.0
	100	1.50	5.40	360.0	101	0.09	0.07	80.0	102	0.62	0.75	120.0
	103	0.19	0.15	80.0	104	0.77	0.92	120.0	105	0.71	0.85	120.0
	106	0.58	2.55	440.0	107	1.04	3.74	360.0	108	1.18	4.24	360.0
	109	0.70	3.08	440.0	110	1.25	4.50	360.0	111	1.54	5.54	360.0
	112	1.05	4.64	440.0	113	1.41	5.09	360.0	114	1.30	4.69	360.0
	115	0.79	2.56	325.5	116	1.80	8.55	474.5	117	1.92	9.12	474.5
	118	1.30	4.23	325.5	119	4.45	10.92	245.5	120	1.57	5.65	360.0
	121	0.29	0.23	80.0	122	3.20	7.87	245.5	123	1.17	4.20	360.0
	124	0.23	0.18	80.0	125	1.33	4.80	360.0	126	1.61	5.80	360.0
	127	2.52	4.79	190.0	129	1.91	3.63	190.0	132	2.82	5.36	190.0
	134	1.79	6.46	360.0	135	2.11	4.01	190.0	137	2.75	5.22	190.0
	138	2.35	4.47	190.0	141	1.97	3.74	190.0	144	1.66	3.15	190.0
	145	1.13	4.95	440.0	146	1.64	5.92	360.0	147	1.42	5.11	360.0
	165	1.09	3.93	360.0	204	1.13	4.08	360.0	205	1.72	1.96	114.5
	207	2.41	5.91	245.5	212	2.48	8.94	360.0	215	0.72	2.36	325.5
	223	3.55	12.79	360.0	231	1.98	4.87	245.5	237	1.32	4.77	360.0
	244	0.06	0.05	80.0	245	0.30	0.36	120.0	246	0.37	0.44	120.0
	247	0.48	0.57	120.0	248	0.37	0.45	120.0	249	0.02	0.02	80.0
	254	1.55	5.58	360.0	267	0.88	3.87	440.0	275	0.47	1.52	325.5
	284	1.14	3.71	325.5	296	0.23	0.18	80.0	304	1.32	4.75	360.0
	310	0.50	0.60	120.0	311	1.07	1.29	120.0	312	1.06	1.27	120.0
	313	0.51	0.61	120.0	314	1.07	1.29	120.0	315	1.09	1.30	120.0
	316	0.09	0.11	120.0	317	0.34	0.41	120.0	318	0.38	0.46	120.0
	319	0.49	0.59	120.0	320	0.42	0.50	120.0	321	0.04	0.02	40.0
	322	0.64	0.77	120.0	323	0.73	0.88	120.0	324	1.30	1.56	120.0
	325	0.64	0.77	120.0	326	0.78	0.94	120.0	327	1.34	1.61	120.0
	328	0.24	0.28	120.0	329	0.36	0.44	120.0	330	0.39	0.46	120.0
	331	0.49	0.59	120.0	332	0.46	0.55	120.0	333	0.22	0.17	80.0
	334	0.49	0.59	120.0	335	0.53	0.63	120.0	336	0.26	0.31	120.0
	337	0.25	0.30	120.0	338	0.30	0.36	120.0	348	0.72	3.18	440.0
	350	0.80	3.54	440.0	356	0.96	3.14	325.5	363	1.16	3.76	325.5
	364	1.70	5.54	325.5	369	1.58	5.14	325.5	375	0.24	0.19	80.0
	376	2.59	2.97	114.5	379	2.31	8.30	360.0	381	1.51	3.71	245.5
	382	1.27	4.56	360.0	383	0.88	3.17	360.0	384	0.65	2.33	360.0
	385	1.04	2.56	245.5	386	0.86	3.08	360.0	390	1.05	3.42	325.5
	392	1.94	2.22	114.5	393	1.78	6.40	360.0	396	0.19	0.15	80.0
	397	0.71	0.86	120.0	398	0.58	0.66	114.5	399	1.30	1.48	114.5
	403	0.98	1.12	114.5	407	1.03	3.70	360.0	408	1.38	4.96	360.0
	421	1.38	1.58	114.5	422	2.17	10.30	474.5	423	1.19	1.37	114.5
	424	2.02	9.58	474.5	425	2.72	9.79	360.0	429	1.64	5.89	360.0
	433	1.05	4.61	440.0	434	1.71	6.17	360.0	435	1.66	5.99	360.0
	436	1.31	5.77	440.0	437	1.98	7.14	360.0	438	1.63	5.85	360.0
	439	1.33	5.87	440.0	440	1.98	7.14	360.0	441	1.59	5.74	360.0
	442	0.26	0.21	80.0	443	1.71	6.16	360.0				
54	1	0.07	0.08	120.0	98	0.67	2.42	360.0	99	0.33	1.18	360.0
	100	0.73	2.61	360.0	101	0.18	0.15	80.0	102	0.33	0.40	120.0
	103	0.07	0.05	80.0	104	0.28	0.33	120.0	105	0.26	0.31	120.0

	106	0.22	0.99	440.0	107	0.40	1.44	360.0	108	0.46	1.64	360.0
	109	0.31	1.39	440.0	110	0.54	1.93	360.0	111	0.68	2.47	360.0
	112	0.49	2.18	440.0	113	0.61	2.18	360.0	114	0.61	2.20	360.0
	115	0.77	2.50	325.5	116	0.96	4.56	474.5	117	1.12	5.33	474.5
	118	2.17	7.06	325.5	119	1.18	2.90	245.5	120	0.95	3.43	360.0
	121	0.44	0.36	80.0	122	0.84	2.07	245.5	123	0.59	2.13	360.0
	124	0.11	0.09	80.0	125	0.60	2.18	360.0	126	0.75	2.69	360.0
	127	1.21	2.31	190.0	129	0.90	1.71	190.0	132	1.45	2.76	190.0
	134	0.93	3.35	360.0	135	1.26	2.39	190.0	137	1.50	2.86	190.0
	138	1.23	2.33	190.0	141	1.04	1.98	190.0	144	0.77	1.46	190.0
	145	0.66	2.89	440.0	146	0.88	3.16	360.0	147	0.64	2.29	360.0
	165	0.38	1.35	360.0	204	0.51	1.85	360.0	205	3.27	3.75	114.5
	207	1.43	3.52	245.5	212	0.41	1.49	360.0	215	1.34	4.37	325.5
	223	0.49	1.75	360.0	231	1.10	2.71	245.5	237	0.54	1.94	360.0
	244	0.09	0.07	80.0	245	0.25	0.30	120.0	246	0.29	0.35	120.0
	247	0.20	0.24	120.0	248	0.16	0.19	120.0	249	8.81e-03	7.04e-03	80.0
	254	0.74	2.68	360.0	267	0.45	1.98	440.0	275	0.68	2.20	325.5
	284	2.14	6.96	325.5	296	0.12	0.09	80.0	304	0.67	2.39	360.0
	310	0.21	0.26	120.0	311	0.44	0.53	120.0	312	0.44	0.52	120.0
	313	0.18	0.22	120.0	314	0.38	0.46	120.0	315	0.38	0.46	120.0
	316	0.15	0.19	120.0	317	0.27	0.33	120.0	318	0.30	0.36	120.0
	319	0.21	0.25	120.0	320	0.18	0.22	120.0	321	0.02	7.04e-03	40.0
	322	0.27	0.33	120.0	323	0.36	0.43	120.0	324	0.54	0.65	120.0
	325	0.23	0.28	120.0	326	0.29	0.35	120.0	327	0.49	0.58	120.0
	328	0.17	0.20	120.0	329	0.29	0.35	120.0	330	0.31	0.37	120.0
	331	0.21	0.25	120.0	332	0.19	0.23	120.0	333	0.09	0.08	80.0
	334	0.26	0.31	120.0	335	0.20	0.24	120.0	336	0.21	0.25	120.0
	337	0.11	0.13	120.0	338	0.13	0.16	120.0	348	0.38	1.67	440.0
	350	0.44	1.94	440.0	356	0.98	3.18	325.5	363	1.03	3.34	325.5
	364	1.08	3.52	325.5	369	1.04	3.37	325.5	375	0.39	0.31	80.0
	376	1.67	1.92	114.5	379	1.47	5.30	360.0	381	0.84	2.05	245.5
	382	0.58	2.07	360.0	383	0.47	1.68	360.0	384	0.49	1.75	360.0
	385	1.68	4.11	245.5	386	0.41	1.48	360.0	390	0.78	2.54	325.5
	392	1.17	1.34	114.5	393	1.08	3.89	360.0	396	0.07	0.06	80.0
	397	0.33	0.39	120.0	398	0.17	0.19	114.5	399	2.20	2.52	114.5
	403	0.34	0.38	114.5	407	0.65	2.35	360.0	408	0.71	2.55	360.0
	421	0.69	0.79	114.5	422	0.92	4.35	474.5	423	0.56	0.65	114.5
	424	0.84	3.99	474.5	425	1.23	4.42	360.0	429	0.82	2.94	360.0
	433	0.53	2.31	440.0	434	0.82	2.95	360.0	435	0.80	2.88	360.0
	436	0.63	2.76	440.0	437	0.91	3.28	360.0	438	0.76	2.75	360.0
	439	0.62	2.73	440.0	440	0.90	3.23	360.0	441	0.75	2.71	360.0
	442	0.23	0.18	80.0	443	0.79	2.84	360.0				
55	1	0.08	0.09	120.0	98	0.77	2.79	360.0	99	0.45	1.63	360.0
	100	0.85	3.05	360.0	101	0.18	0.15	80.0	102	0.44	0.53	120.0
	103	0.09	0.07	80.0	104	0.38	0.46	120.0	105	0.39	0.47	120.0
	106	0.29	1.29	440.0	107	0.54	1.95	360.0	108	0.62	2.22	360.0
	109	0.38	1.67	440.0	110	0.71	2.56	360.0	111	0.82	2.96	360.0
	112	0.58	2.56	440.0	113	0.78	2.79	360.0	114	0.71	2.55	360.0
	115	0.50	1.62	325.5	116	0.94	4.47	474.5	117	1.19	5.63	474.5
	118	2.00	6.52	325.5	119	0.70	1.72	245.5	120	1.15	4.13	360.0
	121	0.45	0.36	80.0	122	0.70	1.72	245.5	123	0.70	2.52	360.0
	124	0.10	0.08	80.0	125	0.73	2.64	360.0	126	0.83	2.99	360.0
	127	1.37	2.60	190.0	129	1.04	1.98	190.0	132	1.59	3.01	190.0
	134	0.75	2.71	360.0	135	1.32	2.51	190.0	137	1.45	2.76	190.0
	138	1.19	2.26	190.0	141	1.09	2.07	190.0	144	0.69	1.32	190.0
	145	0.68	3.00	440.0	146	0.95	3.43	360.0	147	0.69	2.48	360.0
	165	0.92	3.30	360.0	204	0.49	1.75	360.0	205	3.08	3.53	114.5
	207	1.49	3.66	245.5	212	0.67	2.40	360.0	215	1.31	4.28	325.5
	223	1.08	3.90	360.0	231	1.16	2.85	245.5	237	0.59	2.14	360.0
	244	0.07	0.06	80.0	245	0.30	0.36	120.0	246	0.38	0.45	120.0
	247	0.31	0.37	120.0	248	0.24	0.28	120.0	249	8.33e-03	6.66e-03	80.0
	254	0.85	3.07	360.0	267	0.50	2.21	440.0	275	0.42	1.36	325.5
	284	1.98	6.46	325.5	296	0.14	0.11	80.0	304	0.74	2.68	360.0
	310	0.26	0.32	120.0	311	0.57	0.68	120.0	312	0.60	0.72	120.0
	313	0.23	0.28	120.0	314	0.52	0.62	120.0	315	0.55	0.66	120.0
	316	0.15	0.18	120.0	317	0.34	0.41	120.0	318	0.39	0.47	120.0
	319	0.32	0.39	120.0	320	0.27	0.33	120.0	321	0.02	6.66e-03	40.0
	322	0.34	0.41	120.0	323	0.46	0.56	120.0	324	0.70	0.84	120.0
	325	0.31	0.37	120.0	326	0.41	0.49	120.0	327	0.66	0.79	120.0
	328	0.19	0.23	120.0	329	0.37	0.44	120.0	330	0.40	0.48	120.0
	331	0.33	0.39	120.0	332	0.30	0.36	120.0	333	0.13	0.11	80.0
	334	0.32	0.38	120.0	335	0.27	0.33	120.0	336	0.26	0.32	120.0
	337	0.17	0.20	120.0	338	0.20	0.24	120.0	348	0.45	1.99	440.0
	350	0.45	1.98	440.0	356	0.98	3.19	325.5	363	0.99	3.23	325.5
	364	1.09	3.54	325.5	369	1.08	3.50	325.5	375	0.39	0.31	80.0
	376	1.78	2.04	114.5	379	1.54	5.54	360.0	381	0.89	2.18	245.5
	382	0.65	2.33	360.0	383	0.51	1.83	360.0	384	0.53	1.92	360.0

	385	1.60	3.94	245.5	386	0.45	1.62	360.0	390	0.79	2.57	325.5
	392	1.25	1.43	114.5	393	1.19	4.27	360.0	396	0.09	0.08	80.0
	397	0.42	0.50	120.0	398	0.52	0.59	114.5	399	2.11	2.41	114.5
	403	0.58	0.66	114.5	407	0.65	2.33	360.0	408	0.77	2.78	360.0
	421	0.91	1.04	114.5	422	1.03	4.89	474.5	423	0.79	0.91	114.5
	424	0.92	4.37	474.5	425	1.24	4.45	360.0	429	0.87	3.13	360.0
	433	0.54	2.38	440.0	434	0.88	3.16	360.0	435	0.89	3.19	360.0
	436	0.65	2.88	440.0	437	0.98	3.54	360.0	438	0.87	3.12	360.0
	439	0.66	2.92	440.0	440	0.99	3.55	360.0	441	0.86	3.09	360.0
	442	0.17	0.13	80.0	443	0.88	3.18	360.0				
56	1	0.18	0.22	120.0	98	0.97	3.48	360.0	99	1.44	5.19	360.0
	100	1.62	5.83	360.0	101	0.11	0.09	80.0	102	0.68	0.82	120.0
	103	0.19	0.15	80.0	104	0.81	0.97	120.0	105	0.79	0.95	120.0
	106	0.60	2.65	440.0	107	1.11	4.00	360.0	108	1.27	4.57	360.0
	109	0.72	3.19	440.0	110	1.36	4.90	360.0	111	1.61	5.80	360.0
	112	1.04	4.59	440.0	113	1.51	5.44	360.0	114	1.40	5.03	360.0
	115	0.57	1.85	325.5	116	1.76	8.34	474.5	117	1.77	8.40	474.5
	118	1.36	4.43	325.5	119	3.98	9.76	245.5	120	1.45	5.23	360.0
	121	0.27	0.22	80.0	122	3.17	7.78	245.5	123	1.25	4.52	360.0
	124	0.23	0.18	80.0	125	1.50	5.39	360.0	126	1.73	6.21	360.0
	127	2.74	5.20	190.0	129	2.00	3.80	190.0	132	2.85	5.41	190.0
	134	1.57	5.64	360.0	135	2.07	3.94	190.0	137	2.66	5.05	190.0
	138	2.46	4.67	190.0	141	2.12	4.03	190.0	144	1.69	3.20	190.0
	145	1.17	5.15	440.0	146	1.78	6.40	360.0	147	1.55	5.57	360.0
	165	1.54	5.53	360.0	204	1.23	4.42	360.0	205	1.96	2.24	114.5
	207	2.46	6.04	245.5	212	2.56	9.21	360.0	215	0.77	2.51	325.5
	223	3.38	12.18	360.0	231	2.05	5.03	245.5	237	1.44	5.20	360.0
	244	0.05	0.04	80.0	245	0.34	0.41	120.0	246	0.43	0.52	120.0
	247	0.55	0.67	120.0	248	0.43	0.51	120.0	249	0.02	0.01	80.0
	254	1.68	6.06	360.0	267	0.91	3.98	440.0	275	0.22	0.70	325.5
	284	1.26	4.09	325.5	296	0.25	0.20	80.0	304	1.39	5.01	360.0
	310	0.50	0.60	120.0	311	1.11	1.33	120.0	312	1.14	1.36	120.0
	313	0.51	0.61	120.0	314	1.12	1.34	120.0	315	1.18	1.41	120.0
	316	0.10	0.12	120.0	317	0.39	0.47	120.0	318	0.45	0.54	120.0
	319	0.57	0.69	120.0	320	0.49	0.58	120.0	321	0.04	0.01	40.0
	322	0.64	0.77	120.0	323	0.77	0.93	120.0	324	1.39	1.67	120.0
	325	0.65	0.78	120.0	326	0.84	1.01	120.0	327	1.44	1.73	120.0
	328	0.30	0.36	120.0	329	0.42	0.51	120.0	330	0.45	0.55	120.0
	331	0.58	0.70	120.0	332	0.53	0.64	120.0	333	0.24	0.20	80.0
	334	0.51	0.61	120.0	335	0.55	0.67	120.0	336	0.30	0.36	120.0
	337	0.29	0.35	120.0	338	0.35	0.42	120.0	348	0.91	4.02	440.0
	350	0.86	3.79	440.0	356	0.97	3.14	325.5	363	1.12	3.63	325.5
	364	1.69	5.50	325.5	369	1.59	5.18	325.5	375	0.24	0.19	80.0
	376	2.69	3.08	114.5	379	2.52	9.08	360.0	381	1.56	3.84	245.5
	382	1.28	4.60	360.0	383	0.91	3.28	360.0	384	0.66	2.37	360.0
	385	1.11	2.73	245.5	386	0.92	3.33	360.0	390	1.09	3.56	325.5
	392	2.00	2.29	114.5	393	1.97	7.10	360.0	396	0.19	0.15	80.0
	397	0.74	0.89	120.0	398	0.94	1.07	114.5	399	1.32	1.51	114.5
	403	1.26	1.45	114.5	407	1.53	5.51	360.0	408	1.53	5.50	360.0
	421	1.65	1.89	114.5	422	2.00	9.51	474.5	423	1.48	1.70	114.5
	424	1.82	8.63	474.5	425	1.94	6.99	360.0	429	1.77	6.39	360.0
	433	1.11	4.88	440.0	434	1.83	6.61	360.0	435	1.79	6.45	360.0
	436	1.36	5.96	440.0	437	2.08	7.48	360.0	438	1.75	6.31	360.0
	439	1.36	5.97	440.0	440	2.06	7.41	360.0	441	1.73	6.21	360.0
	442	0.30	0.24	80.0	443	1.78	6.40	360.0				
57	1	0.17	0.20	120.0	98	0.89	3.19	360.0	99	1.32	4.73	360.0
	100	1.49	5.38	360.0	101	0.10	0.08	80.0	102	0.60	0.72	120.0
	103	0.18	0.14	80.0	104	0.74	0.88	120.0	105	0.68	0.82	120.0
	106	0.56	2.45	440.0	107	1.01	3.62	360.0	108	1.14	4.11	360.0
	109	0.68	2.99	440.0	110	1.22	4.39	360.0	111	1.50	5.41	360.0
	112	1.01	4.42	440.0	113	1.38	4.97	360.0	114	1.30	4.67	360.0
	115	0.66	2.16	325.5	116	1.79	8.51	474.5	117	1.83	8.68	474.5
	118	1.42	4.62	325.5	119	3.85	9.45	245.5	120	1.42	5.10	360.0
	121	0.27	0.21	80.0	122	3.03	7.44	245.5	123	1.17	4.20	360.0
	124	0.23	0.19	80.0	125	1.36	4.88	360.0	126	1.63	5.88	360.0
	127	2.54	4.83	190.0	129	1.89	3.59	190.0	132	2.78	5.27	190.0
	134	1.75	6.31	360.0	135	2.06	3.92	190.0	137	2.73	5.19	190.0
	138	2.42	4.60	190.0	141	2.02	3.83	190.0	144	1.70	3.22	190.0
	145	1.14	5.01	440.0	146	1.67	6.02	360.0	147	1.46	5.26	360.0
	165	1.06	3.81	360.0	204	1.18	4.24	360.0	205	1.90	2.18	114.5
	207	2.41	5.92	245.5	212	2.40	8.64	360.0	215	0.76	2.46	325.5
	223	3.20	11.51	360.0	231	2.00	4.91	245.5	237	1.36	4.89	360.0
	244	0.06	0.05	80.0	245	0.29	0.35	120.0	246	0.36	0.43	120.0
	247	0.47	0.56	120.0	248	0.36	0.44	120.0	249	0.02	0.02	80.0
	254	1.56	5.61	360.0	267	0.86	3.81	440.0	275	0.21	0.69	325.5
	284	1.27	4.15	325.5	296	0.22	0.18	80.0	304	1.31	4.72	360.0
	310	0.48	0.57	120.0	311	1.03	1.23	120.0	312	1.02	1.22	120.0

	313	0.48	0.58	120.0	314	1.03	1.23	120.0	315	1.05	1.26	120.0
	316	0.10	0.12	120.0	317	0.33	0.40	120.0	318	0.37	0.45	120.0
	319	0.48	0.57	120.0	320	0.41	0.49	120.0	321	0.04	0.02	40.0
	322	0.61	0.73	120.0	323	0.70	0.84	120.0	324	1.27	1.52	120.0
	325	0.61	0.73	120.0	326	0.75	0.91	120.0	327	1.31	1.57	120.0
	328	0.22	0.27	120.0	329	0.36	0.43	120.0	330	0.38	0.45	120.0
	331	0.48	0.58	120.0	332	0.44	0.53	120.0	333	0.21	0.17	80.0
	334	0.47	0.57	120.0	335	0.51	0.61	120.0	336	0.25	0.30	120.0
	337	0.24	0.29	120.0	338	0.29	0.35	120.0	348	0.87	3.81	440.0
	350	0.83	3.65	440.0	356	0.96	3.14	325.5	363	1.17	3.82	325.5
	364	1.70	5.54	325.5	369	1.57	5.10	325.5	375	0.24	0.19	80.0
	376	2.57	2.94	114.5	379	2.34	8.41	360.0	381	1.51	3.71	245.5
	382	1.23	4.45	360.0	383	0.87	3.14	360.0	384	0.62	2.23	360.0
	385	1.10	2.70	245.5	386	0.87	3.14	360.0	390	1.04	3.38	325.5
	392	1.94	2.22	114.5	393	1.82	6.57	360.0	396	0.18	0.14	80.0
	397	0.69	0.82	120.0	398	0.63	0.72	114.5	399	1.34	1.54	114.5
	403	1.03	1.18	114.5	407	1.05	3.79	360.0	408	1.42	5.11	360.0
	421	1.39	1.59	114.5	422	2.13	10.12	474.5	423	1.20	1.38	114.5
	424	1.98	9.41	474.5	425	2.58	9.28	360.0	429	1.68	6.06	360.0
	433	1.07	4.71	440.0	434	1.75	6.29	360.0	435	1.68	6.06	360.0
	436	1.32	5.81	440.0	437	2.00	7.18	360.0	438	1.64	5.89	360.0
	439	1.32	5.82	440.0	440	1.97	7.11	360.0	441	1.61	5.78	360.0
	442	0.30	0.24	80.0	443	1.69	6.10	360.0				
58	1	0.07	0.08	120.0	98	0.69	2.50	360.0	99	0.36	1.31	360.0
	100	0.72	2.60	360.0	101	0.18	0.14	80.0	102	0.34	0.41	120.0
	103	0.08	0.06	80.0	104	0.31	0.37	120.0	105	0.28	0.34	120.0
	106	0.25	1.09	440.0	107	0.43	1.56	360.0	108	0.49	1.75	360.0
	109	0.33	1.47	440.0	110	0.57	2.04	360.0	111	0.72	2.58	360.0
	112	0.54	2.39	440.0	113	0.64	2.30	360.0	114	0.62	2.24	360.0
	115	0.56	1.83	325.5	116	0.99	4.72	474.5	117	1.26	5.96	474.5
	118	2.04	6.63	325.5	119	0.73	1.80	245.5	120	1.15	4.12	360.0
	121	0.45	0.36	80.0	122	0.74	1.82	245.5	123	0.64	2.29	360.0
	124	0.11	0.09	80.0	125	0.59	2.12	360.0	126	0.73	2.64	360.0
	127	1.18	2.24	190.0	129	0.91	1.74	190.0	132	1.50	2.86	190.0
	134	0.97	3.49	360.0	135	1.32	2.51	190.0	137	1.52	2.90	190.0
	138	1.16	2.21	190.0	141	0.99	1.89	190.0	144	0.73	1.38	190.0
	145	0.65	2.86	440.0	146	0.86	3.09	360.0	147	0.60	2.15	360.0
	165	0.41	1.47	360.0	204	0.47	1.70	360.0	205	3.08	3.53	114.5
	207	1.43	3.52	245.5	212	0.46	1.65	360.0	215	1.30	4.24	325.5
	223	0.79	2.85	360.0	231	1.10	2.69	245.5	237	0.51	1.82	360.0
	244	0.08	0.07	80.0	245	0.24	0.29	120.0	246	0.29	0.35	120.0
	247	0.21	0.26	120.0	248	0.17	0.20	120.0	249	9.28e-03	7.42e-03	80.0
	254	0.73	2.64	360.0	267	0.46	2.03	440.0	275	0.42	1.38	325.5
	284	2.00	6.52	325.5	296	0.12	0.09	80.0	304	0.67	2.40	360.0
	310	0.24	0.28	120.0	311	0.47	0.57	120.0	312	0.47	0.56	120.0
	313	0.21	0.25	120.0	314	0.42	0.51	120.0	315	0.42	0.50	120.0
	316	0.15	0.18	120.0	317	0.27	0.32	120.0	318	0.30	0.36	120.0
	319	0.22	0.26	120.0	320	0.19	0.23	120.0	321	0.02	7.42e-03	40.0
	322	0.30	0.36	120.0	323	0.38	0.45	120.0	324	0.56	0.68	120.0
	325	0.26	0.31	120.0	326	0.32	0.38	120.0	327	0.52	0.63	120.0
	328	0.16	0.19	120.0	329	0.29	0.34	120.0	330	0.30	0.36	120.0
	331	0.22	0.26	120.0	332	0.20	0.25	120.0	333	0.10	0.08	80.0
	334	0.27	0.33	120.0	335	0.22	0.27	120.0	336	0.21	0.25	120.0
	337	0.12	0.14	120.0	338	0.14	0.16	120.0	348	0.46	2.00	440.0
	350	0.42	1.84	440.0	356	0.98	3.18	325.5	363	1.02	3.31	325.5
	364	1.09	3.53	325.5	369	1.05	3.41	325.5	375	0.39	0.31	80.0
	376	1.69	1.94	114.5	379	1.55	5.57	360.0	381	0.84	2.07	245.5
	382	0.60	2.17	360.0	383	0.47	1.69	360.0	384	0.50	1.79	360.0
	385	1.62	3.97	245.5	386	0.40	1.43	360.0	390	0.87	2.84	325.5
	392	1.18	1.36	114.5	393	1.09	3.91	360.0	396	0.08	0.06	80.0
	397	0.35	0.42	120.0	398	0.23	0.26	114.5	399	2.14	2.46	114.5
	403	0.29	0.33	114.5	407	0.69	2.48	360.0	408	0.67	2.42	360.0
	421	0.69	0.79	114.5	422	0.61	2.91	474.5	423	0.56	0.65	114.5
	424	0.48	2.29	474.5	425	0.78	2.80	360.0	429	0.77	2.78	360.0
	433	0.50	2.22	440.0	434	0.79	2.84	360.0	435	0.78	2.79	360.0
	436	0.62	2.72	440.0	437	0.90	3.24	360.0	438	0.75	2.70	360.0
	439	0.63	2.77	440.0	440	0.90	3.25	360.0	441	0.74	2.66	360.0
	442	0.17	0.13	80.0	443	0.80	2.88	360.0				
59	1	0.08	0.10	120.0	98	0.67	2.42	360.0	99	0.48	1.72	360.0
	100	0.74	2.68	360.0	101	0.11	0.09	80.0	102	0.43	0.52	120.0
	103	0.09	0.07	80.0	104	0.40	0.48	120.0	105	0.41	0.49	120.0
	106	0.34	1.48	440.0	107	0.61	2.21	360.0	108	0.67	2.39	360.0
	109	0.44	1.95	440.0	110	0.82	2.97	360.0	111	0.93	3.34	360.0
	112	0.51	2.23	440.0	113	0.83	2.98	360.0	114	0.86	3.11	360.0
	115	0.76	2.46	325.5	116	1.18	5.60	474.5	117	1.20	5.70	474.5
	118	1.91	6.21	325.5	119	1.33	3.27	245.5	120	0.88	3.18	360.0
	121	0.41	0.33	80.0	122	0.94	2.31	245.5	123	0.79	2.86	360.0

	124	0.13	0.10	80.0	125	0.86	3.09	360.0	126	0.95	3.41	360.0
	127	1.41	2.67	190.0	129	1.05	1.99	190.0	132	1.57	2.99	190.0
	134	0.77	2.78	360.0	135	1.27	2.42	190.0	137	1.45	2.75	190.0
	138	1.23	2.33	190.0	141	1.08	2.05	190.0	144	0.80	1.52	190.0
	145	0.49	2.18	440.0	146	0.80	2.89	360.0	147	0.74	2.66	360.0
	165	1.20	4.32	360.0	204	0.63	2.27	360.0	205	2.93	3.36	114.5
	207	1.21	2.96	245.5	212	0.83	2.97	360.0	215	1.26	4.11	325.5
	223	1.11	4.01	360.0	231	1.12	2.76	245.5	237	0.79	2.85	360.0
	244	0.07	0.05	80.0	245	0.28	0.34	120.0	246	0.36	0.43	120.0
	247	0.32	0.39	120.0	248	0.25	0.30	120.0	249	9.13e-03	7.30e-03	80.0
	254	0.74	2.65	360.0	267	0.78	3.44	440.0	275	0.67	2.17	325.5
	284	1.87	6.10	325.5	296	0.11	0.09	80.0	304	0.62	2.24	360.0
	310	0.26	0.31	120.0	311	0.57	0.69	120.0	312	0.61	0.73	120.0
	313	0.24	0.29	120.0	314	0.54	0.65	120.0	315	0.58	0.70	120.0
	316	0.15	0.17	120.0	317	0.32	0.38	120.0	318	0.37	0.45	120.0
	319	0.33	0.40	120.0	320	0.28	0.34	120.0	321	0.02	7.30e-03	40.0
	322	0.33	0.40	120.0	323	0.46	0.55	120.0	324	0.72	0.87	120.0
	325	0.31	0.38	120.0	326	0.43	0.51	120.0	327	0.70	0.84	120.0
	328	0.17	0.21	120.0	329	0.35	0.42	120.0	330	0.38	0.46	120.0
	331	0.34	0.41	120.0	332	0.31	0.37	120.0	333	0.14	0.12	80.0
	334	0.31	0.37	120.0	335	0.28	0.34	120.0	336	0.24	0.29	120.0
	337	0.17	0.21	120.0	338	0.21	0.25	120.0	348	0.29	1.29	440.0
	350	0.38	1.68	440.0	356	0.66	2.15	325.5	363	0.69	2.26	325.5
	364	0.74	2.41	325.5	369	0.71	2.30	325.5	375	0.35	0.28	80.0
	376	1.27	1.45	114.5	379	1.18	4.24	360.0	381	0.73	1.80	245.5
	382	0.56	2.03	360.0	383	0.40	1.46	360.0	384	0.47	1.69	360.0
	385	1.55	3.80	245.5	386	0.54	1.95	360.0	390	0.62	2.00	325.5
	392	1.07	1.23	114.5	393	1.05	3.77	360.0	396	0.09	0.07	80.0
	397	0.41	0.50	120.0	398	0.58	0.67	114.5	399	2.03	2.33	114.5
	403	0.70	0.80	114.5	407	0.92	3.32	360.0	408	0.68	2.44	360.0
	421	1.00	1.15	114.5	422	1.29	6.11	474.5	423	0.91	1.05	114.5
	424	1.19	5.66	474.5	425	1.04	3.74	360.0	429	0.78	2.82	360.0
	433	0.47	2.09	440.0	434	0.78	2.80	360.0	435	0.77	2.77	360.0
	436	0.60	2.65	440.0	437	0.88	3.17	360.0	438	0.73	2.64	360.0
	439	0.61	2.70	440.0	440	0.89	3.19	360.0	441	0.73	2.62	360.0
	442	0.19	0.15	80.0	443	0.78	2.80	360.0				
60	1	0.18	0.22	120.0	98	1.00	3.59	360.0	99	1.43	5.14	360.0
	100	1.55	5.57	360.0	101	0.17	0.14	80.0	102	0.73	0.88	120.0
	103	0.21	0.17	80.0	104	0.89	1.06	120.0	105	0.86	1.03	120.0
	106	0.69	3.02	440.0	107	1.24	4.48	360.0	108	1.38	4.98	360.0
	109	0.82	3.63	440.0	110	1.53	5.50	360.0	111	1.78	6.42	360.0
	112	1.04	4.60	440.0	113	1.61	5.78	360.0	114	1.57	5.67	360.0
	115	0.78	2.55	325.5	116	2.04	9.67	474.5	117	2.03	9.63	474.5
	118	1.07	3.50	325.5	119	4.45	10.94	245.5	120	1.53	5.52	360.0
	121	0.29	0.23	80.0	122	3.35	8.24	245.5	123	1.40	5.03	360.0
	124	0.24	0.19	80.0	125	1.58	5.68	360.0	126	1.80	6.49	360.0
	127	2.73	5.19	190.0	129	2.08	3.95	190.0	132	2.95	5.60	190.0
	134	1.68	6.04	360.0	135	2.12	4.03	190.0	137	2.69	5.10	190.0
	138	2.37	4.50	190.0	141	2.02	3.83	190.0	144	1.77	3.36	190.0
	145	0.97	4.28	440.0	146	1.59	5.71	360.0	147	1.52	5.46	360.0
	165	1.85	6.66	360.0	204	1.32	4.74	360.0	205	1.49	1.71	114.5
	207	2.19	5.37	245.5	212	2.64	9.52	360.0	215	0.73	2.37	325.5
	223	3.65	13.12	360.0	231	2.00	4.90	245.5	237	1.56	5.62	360.0
	244	0.04	0.03	80.0	245	0.35	0.41	120.0	246	0.44	0.52	120.0
	247	0.59	0.71	120.0	248	0.46	0.55	120.0	249	0.02	0.02	80.0
	254	1.56	5.63	360.0	267	1.19	5.26	440.0	275	0.47	1.54	325.5
	284	0.87	2.84	325.5	296	0.23	0.18	80.0	304	1.30	4.70	360.0
	310	0.56	0.67	120.0	311	1.21	1.46	120.0	312	1.23	1.48	120.0
	313	0.57	0.68	120.0	314	1.23	1.47	120.0	315	1.28	1.53	120.0
	316	0.09	0.11	120.0	317	0.39	0.47	120.0	318	0.45	0.54	120.0
	319	0.61	0.73	120.0	320	0.52	0.62	120.0	321	0.04	0.02	40.0
	322	0.71	0.85	120.0	323	0.83	1.00	120.0	324	1.49	1.79	120.0
	325	0.72	0.86	120.0	326	0.92	1.10	120.0	327	1.55	1.86	120.0
	328	0.31	0.37	120.0	329	0.43	0.51	120.0	330	0.46	0.55	120.0
	331	0.62	0.74	120.0	332	0.57	0.68	120.0	333	0.26	0.21	80.0
	334	0.55	0.66	120.0	335	0.61	0.73	120.0	336	0.30	0.36	120.0
	337	0.31	0.37	120.0	338	0.37	0.45	120.0	348	0.73	3.22	440.0
	350	0.76	3.32	440.0	356	0.65	2.11	325.5	363	0.84	2.74	325.5
	364	1.36	4.43	325.5	369	1.25	4.07	325.5	375	0.20	0.16	80.0
	376	2.20	2.52	114.5	379	2.13	7.68	360.0	381	1.42	3.49	245.5
	382	1.27	4.58	360.0	383	0.84	3.02	360.0	384	0.66	2.36	360.0
	385	1.01	2.48	245.5	386	0.98	3.54	360.0	390	0.96	3.14	325.5
	392	1.84	2.11	114.5	393	1.89	6.79	360.0	396	0.21	0.17	80.0
	397	0.81	0.97	120.0	398	1.01	1.15	114.5	399	1.21	1.38	114.5
	403	1.32	1.51	114.5	407	1.37	4.95	360.0	408	1.37	4.92	360.0
	421	1.72	1.97	114.5	422	2.22	10.51	474.5	423	1.57	1.80	114.5
	424	2.04	9.70	474.5	425	1.99	7.16	360.0	429	1.61	5.81	360.0

	433	1.01	4.44	440.0	434	1.69	6.08	360.0	435	1.65	5.93	360.0
	436	1.30	5.71	440.0	437	1.97	7.10	360.0	438	1.61	5.81	360.0
	439	1.34	5.91	440.0	440	1.99	7.18	360.0	441	1.59	5.71	360.0
	442	0.25	0.20	80.0	443	1.73	6.23	360.0				
61	1	0.17	0.20	120.0	98	0.92	3.32	360.0	99	1.30	4.69	360.0
	100	1.42	5.11	360.0	101	0.17	0.14	80.0	102	0.65	0.78	120.0
	103	0.20	0.16	80.0	104	0.82	0.98	120.0	105	0.75	0.90	120.0
	106	0.64	2.82	440.0	107	1.14	4.09	360.0	108	1.26	4.52	360.0
	109	0.78	3.43	440.0	110	1.39	4.99	360.0	111	1.67	6.02	360.0
	112	1.00	4.42	440.0	113	1.47	5.29	360.0	114	1.47	5.31	360.0
	115	0.86	2.81	325.5	116	2.08	9.85	474.5	117	2.09	9.91	474.5
	118	1.15	3.73	325.5	119	4.33	10.62	245.5	120	1.49	5.36	360.0
	121	0.27	0.22	80.0	122	3.22	7.90	245.5	123	1.31	4.72	360.0
	124	0.25	0.20	80.0	125	1.43	5.17	360.0	126	1.71	6.14	360.0
	127	2.54	4.83	190.0	129	1.97	3.75	190.0	132	2.87	5.46	190.0
	134	1.86	6.68	360.0	135	2.11	4.01	190.0	137	2.76	5.25	190.0
	138	2.33	4.42	190.0	141	1.91	3.63	190.0	144	1.76	3.34	190.0
	145	0.94	4.14	440.0	146	1.48	5.32	360.0	147	1.43	5.14	360.0
	165	1.34	4.84	360.0	204	1.24	4.45	360.0	205	1.38	1.58	114.5
	207	2.14	5.26	245.5	212	2.47	8.91	360.0	215	0.66	2.14	325.5
	223	3.43	12.34	360.0	231	1.95	4.78	245.5	237	1.47	5.29	360.0
	244	0.05	0.04	80.0	245	0.30	0.36	120.0	246	0.37	0.45	120.0
	247	0.50	0.60	120.0	248	0.39	0.47	120.0	249	0.02	0.02	80.0
	254	1.44	5.19	360.0	267	1.15	5.08	440.0	275	0.47	1.53	325.5
	284	0.89	2.90	325.5	296	0.20	0.16	80.0	304	1.22	4.40	360.0
	310	0.53	0.64	120.0	311	1.14	1.36	120.0	312	1.12	1.34	120.0
	313	0.54	0.65	120.0	314	1.14	1.37	120.0	315	1.15	1.38	120.0
	316	0.08	0.10	120.0	317	0.34	0.41	120.0	318	0.39	0.47	120.0
	319	0.52	0.62	120.0	320	0.44	0.53	120.0	321	0.04	0.02	40.0
	322	0.67	0.81	120.0	323	0.77	0.92	120.0	324	1.37	1.64	120.0
	325	0.68	0.82	120.0	326	0.83	1.00	120.0	327	1.42	1.70	120.0
	328	0.23	0.28	120.0	329	0.37	0.44	120.0	330	0.39	0.47	120.0
	331	0.52	0.62	120.0	332	0.48	0.58	120.0	333	0.23	0.18	80.0
	334	0.51	0.62	120.0	335	0.56	0.67	120.0	336	0.26	0.31	120.0
	337	0.26	0.31	120.0	338	0.31	0.38	120.0	348	0.68	3.01	440.0
	350	0.72	3.18	440.0	356	0.64	2.10	325.5	363	0.92	2.98	325.5
	364	1.38	4.50	325.5	369	1.22	3.98	325.5	375	0.20	0.16	80.0
	376	2.08	2.38	114.5	379	1.96	7.05	360.0	381	1.37	3.36	245.5
	382	1.23	4.43	360.0	383	0.80	2.88	360.0	384	0.62	2.22	360.0
	385	0.99	2.43	245.5	386	0.93	3.35	360.0	390	0.93	3.04	325.5
	392	1.78	2.04	114.5	393	1.69	6.10	360.0	396	0.20	0.16	80.0
	397	0.75	0.90	120.0	398	0.69	0.80	114.5	399	1.22	1.40	114.5
	403	1.08	1.23	114.5	407	0.86	3.08	360.0	408	1.26	4.53	360.0
	421	1.47	1.69	114.5	422	2.33	11.08	474.5	423	1.31	1.50	114.5
	424	2.19	10.38	474.5	425	2.68	9.65	360.0	429	1.52	5.49	360.0
	433	0.97	4.27	440.0	434	1.60	5.76	360.0	435	1.54	5.55	360.0
	436	1.26	5.55	440.0	437	1.89	6.81	360.0	438	1.50	5.40	360.0
	439	1.31	5.76	440.0	440	1.91	6.89	360.0	441	1.47	5.28	360.0
	442	0.25	0.20	80.0	443	1.65	5.93	360.0				
62	1	0.07	0.08	120.0	98	0.59	2.13	360.0	99	0.41	1.46	360.0
	100	0.62	2.22	360.0	101	0.11	0.09	80.0	102	0.33	0.40	120.0
	103	0.08	0.06	80.0	104	0.33	0.39	120.0	105	0.30	0.36	120.0
	106	0.29	1.27	440.0	107	0.50	1.81	360.0	108	0.54	1.93	360.0
	109	0.40	1.75	440.0	110	0.68	2.44	360.0	111	0.82	2.97	360.0
	112	0.46	2.04	440.0	113	0.68	2.46	360.0	114	0.77	2.77	360.0
	115	0.81	2.64	325.5	116	1.22	5.81	474.5	117	1.26	5.98	474.5
	118	1.94	6.33	325.5	119	1.42	3.48	245.5	120	0.84	3.02	360.0
	121	0.41	0.33	80.0	122	1.00	2.46	245.5	123	0.71	2.56	360.0
	124	0.13	0.11	80.0	125	0.71	2.57	360.0	126	0.85	3.06	360.0
	127	1.22	2.31	190.0	129	0.92	1.75	190.0	132	1.49	2.84	190.0
	134	0.98	3.54	360.0	135	1.26	2.40	190.0	137	1.52	2.88	190.0
	138	1.20	2.27	190.0	141	0.98	1.87	190.0	144	0.79	1.50	190.0
	145	0.46	2.03	440.0	146	0.70	2.51	360.0	147	0.65	2.33	360.0
	165	0.65	2.33	360.0	204	0.55	1.97	360.0	205	2.93	3.35	114.5
	207	1.16	2.84	245.5	212	0.58	2.08	360.0	215	1.25	4.05	325.5
	223	0.71	2.55	360.0	231	1.06	2.61	245.5	237	0.70	2.51	360.0
	244	0.08	0.06	80.0	245	0.23	0.27	120.0	246	0.27	0.33	120.0
	247	0.23	0.27	120.0	248	0.18	0.22	120.0	249	0.01	8.08e-03	80.0
	254	0.61	2.21	360.0	267	0.74	3.27	440.0	275	0.67	2.19	325.5
	284	1.89	6.16	325.5	296	0.09	0.07	80.0	304	0.54	1.95	360.0
	310	0.23	0.28	120.0	311	0.48	0.58	120.0	312	0.47	0.57	120.0
	313	0.21	0.25	120.0	314	0.45	0.54	120.0	315	0.45	0.54	120.0
	316	0.14	0.17	120.0	317	0.25	0.30	120.0	318	0.28	0.34	120.0
	319	0.23	0.28	120.0	320	0.20	0.24	120.0	321	0.02	8.08e-03	40.0
	322	0.29	0.35	120.0	323	0.37	0.44	120.0	324	0.58	0.70	120.0
	325	0.27	0.32	120.0	326	0.34	0.40	120.0	327	0.56	0.67	120.0
	328	0.15	0.18	120.0	329	0.27	0.32	120.0	330	0.28	0.34	120.0

	331	0.23	0.28	120.0	332	0.22	0.26	120.0	333	0.11	0.09	80.0
	334	0.26	0.31	120.0	335	0.23	0.28	120.0	336	0.19	0.23	120.0
	337	0.12	0.15	120.0	338	0.15	0.17	120.0	348	0.26	1.14	440.0
	350	0.35	1.54	440.0	356	0.66	2.14	325.5	363	0.74	2.39	325.5
	364	0.75	2.46	325.5	369	0.68	2.22	325.5	375	0.35	0.28	80.0
	376	1.16	1.32	114.5	379	1.09	3.92	360.0	381	0.68	1.68	245.5
	382	0.52	1.88	360.0	383	0.37	1.31	360.0	384	0.43	1.55	360.0
	385	1.56	3.82	245.5	386	0.49	1.76	360.0	390	0.68	2.23	325.5
	392	1.01	1.16	114.5	393	1.00	3.61	360.0	396	0.08	0.06	80.0
	397	0.34	0.41	120.0	398	0.25	0.28	114.5	399	2.07	2.37	114.5
	403	0.43	0.49	114.5	407	0.43	1.56	360.0	408	0.57	2.05	360.0
	421	0.79	0.90	114.5	422	1.24	5.88	474.5	423	0.70	0.80	114.5
	424	1.16	5.49	474.5	425	1.54	5.54	360.0	429	0.69	2.49	360.0
	433	0.44	1.92	440.0	434	0.69	2.48	360.0	435	0.66	2.38	360.0
	436	0.57	2.49	440.0	437	0.80	2.88	360.0	438	0.62	2.22	360.0
	439	0.58	2.55	440.0	440	0.80	2.89	360.0	441	0.61	2.18	360.0
	442	0.19	0.15	80.0	443	0.69	2.50	360.0				
63	1	0.08	0.10	120.0	98	0.70	2.52	360.0	99	0.51	1.85	360.0
	100	0.75	2.70	360.0	101	0.11	0.09	80.0	102	0.44	0.53	120.0
	103	0.10	0.08	80.0	104	0.43	0.52	120.0	105	0.44	0.52	120.0
	106	0.36	1.57	440.0	107	0.64	2.32	360.0	108	0.70	2.51	360.0
	109	0.46	2.03	440.0	110	0.85	3.07	360.0	111	0.96	3.46	360.0
	112	0.55	2.40	440.0	113	0.86	3.08	360.0	114	0.87	3.14	360.0
	115	0.55	1.79	325.5	116	1.20	5.69	474.5	117	1.28	6.10	474.5
	118	1.78	5.78	325.5	119	0.92	2.27	245.5	120	1.01	3.65	360.0
	121	0.43	0.34	80.0	122	0.87	2.13	245.5	123	0.81	2.91	360.0
	124	0.12	0.10	80.0	125	0.85	3.05	360.0	126	0.94	3.38	360.0
	127	1.38	2.62	190.0	129	1.07	2.02	190.0	132	1.62	3.08	190.0
	134	0.82	2.94	360.0	135	1.32	2.51	190.0	137	1.47	2.79	190.0
	138	1.16	2.21	190.0	141	1.03	1.96	190.0	144	0.77	1.46	190.0
	145	0.48	2.12	440.0	146	0.77	2.79	360.0	147	0.70	2.52	360.0
	165	1.22	4.39	360.0	204	0.59	2.14	360.0	205	2.75	3.15	114.5
	207	1.20	2.96	245.5	212	0.81	2.92	360.0	215	1.25	4.05	325.5
	223	1.23	4.44	360.0	231	1.12	2.74	245.5	237	0.77	2.77	360.0
	244	0.07	0.05	80.0	245	0.28	0.34	120.0	246	0.36	0.43	120.0
	247	0.33	0.40	120.0	248	0.26	0.31	120.0	249	9.60e-03	7.68e-03	80.0
	254	0.73	2.62	360.0	267	0.79	3.48	440.0	275	0.41	1.35	325.5
	284	1.74	5.66	325.5	296	0.12	0.09	80.0	304	0.63	2.27	360.0
	310	0.28	0.34	120.0	311	0.61	0.73	120.0	312	0.64	0.77	120.0
	313	0.27	0.32	120.0	314	0.58	0.70	120.0	315	0.62	0.74	120.0
	316	0.14	0.17	120.0	317	0.32	0.38	120.0	318	0.37	0.44	120.0
	319	0.35	0.41	120.0	320	0.29	0.35	120.0	321	0.02	7.68e-03	40.0
	322	0.36	0.43	120.0	323	0.47	0.57	120.0	324	0.75	0.90	120.0
	325	0.34	0.41	120.0	326	0.46	0.55	120.0	327	0.73	0.88	120.0
	328	0.17	0.21	120.0	329	0.35	0.42	120.0	330	0.38	0.46	120.0
	331	0.35	0.42	120.0	332	0.32	0.38	120.0	333	0.15	0.12	80.0
	334	0.32	0.38	120.0	335	0.30	0.37	120.0	336	0.25	0.29	120.0
	337	0.18	0.21	120.0	338	0.22	0.26	120.0	348	0.30	1.33	440.0
	350	0.36	1.57	440.0	356	0.66	2.15	325.5	363	0.69	2.23	325.5
	364	0.74	2.42	325.5	369	0.72	2.35	325.5	375	0.35	0.28	80.0
	376	1.28	1.47	114.5	379	1.17	4.20	360.0	381	0.74	1.81	245.5
	382	0.60	2.14	360.0	383	0.41	1.49	360.0	384	0.48	1.74	360.0
	385	1.49	3.66	245.5	386	0.53	1.92	360.0	390	0.69	2.24	325.5
	392	1.08	1.24	114.5	393	1.10	3.97	360.0	396	0.10	0.08	80.0
	397	0.43	0.52	120.0	398	0.58	0.66	114.5	399	1.98	2.27	114.5
	403	0.67	0.77	114.5	407	0.58	2.08	360.0	408	0.64	2.29	360.0
	421	0.99	1.14	114.5	422	1.32	6.28	474.5	423	0.90	1.03	114.5
	424	1.23	5.82	474.5	425	1.17	4.22	360.0	429	0.74	2.66	360.0
	433	0.45	1.99	440.0	434	0.75	2.68	360.0	435	0.75	2.69	360.0
	436	0.59	2.61	440.0	437	0.87	3.13	360.0	438	0.72	2.60	360.0
	439	0.63	2.76	440.0	440	0.90	3.22	360.0	441	0.71	2.57	360.0
	442	0.14	0.11	80.0	443	0.80	2.87	360.0				
64	1	0.18	0.22	120.0	98	0.96	3.46	360.0	99	1.42	5.11	360.0
	100	1.54	5.53	360.0	101	0.16	0.13	80.0	102	0.71	0.85	120.0
	103	0.20	0.16	80.0	104	0.85	1.03	120.0	105	0.83	1.00	120.0
	106	0.66	2.92	440.0	107	1.21	4.36	360.0	108	1.35	4.86	360.0
	109	0.80	3.54	440.0	110	1.50	5.39	360.0	111	1.75	6.29	360.0
	112	1.00	4.40	440.0	113	1.57	5.66	360.0	114	1.57	5.66	360.0
	115	0.66	2.14	325.5	116	2.04	9.66	474.5	117	1.97	9.36	474.5
	118	1.18	3.85	325.5	119	3.86	9.48	245.5	120	1.43	5.15	360.0
	121	0.25	0.20	80.0	122	3.18	7.81	245.5	123	1.41	5.08	360.0
	124	0.24	0.20	80.0	125	1.60	5.75	360.0	126	1.82	6.55	360.0
	127	2.75	5.23	190.0	129	2.06	3.91	190.0	132	2.90	5.51	190.0
	134	1.63	5.88	360.0	135	2.08	3.95	190.0	137	2.68	5.08	190.0
	138	2.43	4.62	190.0	141	2.06	3.91	190.0	144	1.81	3.43	190.0
	145	0.99	4.35	440.0	146	1.62	5.82	360.0	147	1.56	5.61	360.0
	165	1.82	6.57	360.0	204	1.36	4.88	360.0	205	1.66	1.90	114.5

	207	2.20	5.39	245.5	212	2.58	9.29	360.0	215	0.72	2.35	325.5
	223	3.32	11.94	360.0	231	2.01	4.94	245.5	237	1.59	5.72	360.0
	244	0.04	0.03	80.0	245	0.34	0.41	120.0	246	0.43	0.51	120.0
	247	0.58	0.70	120.0	248	0.45	0.54	120.0	249	0.02	0.02	80.0
	254	1.57	5.66	360.0	267	1.18	5.20	440.0	275	0.22	0.72	325.5
	284	1.01	3.29	325.5	296	0.23	0.18	80.0	304	1.29	4.65	360.0
	310	0.53	0.63	120.0	311	1.17	1.40	120.0	312	1.19	1.43	120.0
	313	0.54	0.65	120.0	314	1.18	1.42	120.0	315	1.24	1.49	120.0
	316	0.09	0.11	120.0	317	0.38	0.46	120.0	318	0.45	0.53	120.0
	319	0.60	0.72	120.0	320	0.51	0.61	120.0	321	0.04	0.02	40.0
	322	0.68	0.81	120.0	323	0.81	0.97	120.0	324	1.46	1.75	120.0
	325	0.69	0.83	120.0	326	0.89	1.07	120.0	327	1.51	1.82	120.0
	328	0.29	0.35	120.0	329	0.42	0.50	120.0	330	0.45	0.54	120.0
	331	0.61	0.73	120.0	332	0.56	0.67	120.0	333	0.26	0.21	80.0
	334	0.53	0.63	120.0	335	0.59	0.70	120.0	336	0.29	0.35	120.0
	337	0.30	0.36	120.0	338	0.37	0.44	120.0	348	0.91	3.99	440.0
	350	0.78	3.44	440.0	356	0.65	2.11	325.5	363	0.86	2.81	325.5
	364	1.36	4.44	325.5	369	1.24	4.03	325.5	375	0.20	0.16	80.0
	376	2.19	2.50	114.5	379	2.23	8.04	360.0	381	1.42	3.50	245.5
	382	1.24	4.46	360.0	383	0.83	2.98	360.0	384	0.63	2.27	360.0
	385	1.06	2.61	245.5	386	1.00	3.59	360.0	390	0.98	3.18	325.5
	392	1.84	2.10	114.5	393	1.93	6.94	360.0	396	0.20	0.16	80.0
	397	0.78	0.93	120.0	398	1.05	1.21	114.5	399	1.24	1.43	114.5
	403	1.36	1.56	114.5	407	1.47	5.31	360.0	408	1.41	5.08	360.0
	421	1.73	1.98	114.5	422	2.18	10.34	474.5	423	1.59	1.82	114.5
	424	2.01	9.54	474.5	425	1.86	6.70	360.0	429	1.66	5.98	360.0
	433	1.03	4.54	440.0	434	1.72	6.20	360.0	435	1.67	6.01	360.0
	436	1.31	5.74	440.0	437	1.98	7.13	360.0	438	1.62	5.85	360.0
	439	1.33	5.85	440.0	440	1.98	7.14	360.0	441	1.60	5.75	360.0
	442	0.28	0.22	80.0	443	1.71	6.15	360.0				
65	1	0.17	0.21	120.0	98	0.89	3.19	360.0	99	1.29	4.65	360.0
	100	1.41	5.07	360.0	101	0.16	0.13	80.0	102	0.63	0.75	120.0
	103	0.19	0.15	80.0	104	0.78	0.94	120.0	105	0.73	0.87	120.0
	106	0.62	2.72	440.0	107	1.10	3.97	360.0	108	1.22	4.40	360.0
	109	0.76	3.34	440.0	110	1.35	4.87	360.0	111	1.64	5.90	360.0
	112	0.96	4.22	440.0	113	1.44	5.17	360.0	114	1.47	5.30	360.0
	115	0.75	2.45	325.5	116	2.07	9.83	474.5	117	2.03	9.61	474.5
	118	1.25	4.07	325.5	119	3.73	9.16	245.5	120	1.38	4.95	360.0
	121	0.24	0.19	80.0	122	3.04	7.47	245.5	123	1.32	4.76	360.0
	124	0.25	0.20	80.0	125	1.45	5.23	360.0	126	1.72	6.21	360.0
	127	2.56	4.87	190.0	129	1.95	3.71	190.0	132	2.83	5.37	190.0
	134	1.81	6.53	360.0	135	2.07	3.92	190.0	137	2.75	5.23	190.0
	138	2.39	4.55	190.0	141	1.96	3.72	190.0	144	1.80	3.41	190.0
	145	0.96	4.20	440.0	146	1.51	5.43	360.0	147	1.47	5.30	360.0
	165	1.31	4.73	360.0	204	1.28	4.60	360.0	205	1.57	1.80	114.5
	207	2.15	5.29	245.5	212	2.40	8.65	360.0	215	0.67	2.19	325.5
	223	3.08	11.10	360.0	231	1.96	4.82	245.5	237	1.50	5.40	360.0
	244	0.05	0.04	80.0	245	0.29	0.35	120.0	246	0.36	0.44	120.0
	247	0.49	0.59	120.0	248	0.38	0.46	120.0	249	0.02	0.02	80.0
	254	1.45	5.21	360.0	267	1.14	5.02	440.0	275	0.22	0.71	325.5
	284	1.03	3.35	325.5	296	0.20	0.16	80.0	304	1.21	4.36	360.0
	310	0.50	0.60	120.0	311	1.09	1.31	120.0	312	1.08	1.29	120.0
	313	0.51	0.61	120.0	314	1.09	1.31	120.0	315	1.11	1.34	120.0
	316	0.08	0.10	120.0	317	0.33	0.40	120.0	318	0.38	0.45	120.0
	319	0.50	0.61	120.0	320	0.43	0.52	120.0	321	0.04	0.02	40.0
	322	0.64	0.77	120.0	323	0.74	0.88	120.0	324	1.34	1.60	120.0
	325	0.65	0.78	120.0	326	0.80	0.96	120.0	327	1.38	1.66	120.0
	328	0.22	0.26	120.0	329	0.36	0.43	120.0	330	0.38	0.46	120.0
	331	0.51	0.61	120.0	332	0.47	0.56	120.0	333	0.22	0.18	80.0
	334	0.49	0.59	120.0	335	0.54	0.65	120.0	336	0.25	0.30	120.0
	337	0.26	0.31	120.0	338	0.31	0.37	120.0	348	0.86	3.76	440.0
	350	0.75	3.30	440.0	356	0.64	2.10	325.5	363	0.94	3.05	325.5
	364	1.39	4.52	325.5	369	1.21	3.94	325.5	375	0.20	0.16	80.0
	376	2.06	2.36	114.5	379	2.01	7.24	360.0	381	1.37	3.37	245.5
	382	1.20	4.31	360.0	383	0.79	2.84	360.0	384	0.59	2.13	360.0
	385	1.04	2.56	245.5	386	0.94	3.40	360.0	390	0.92	2.99	325.5
	392	1.78	2.04	114.5	393	1.77	6.35	360.0	396	0.19	0.15	80.0
	397	0.72	0.87	120.0	398	0.76	0.87	114.5	399	1.26	1.45	114.5
	403	1.13	1.29	114.5	407	0.89	3.21	360.0	408	1.30	4.68	360.0
	421	1.48	1.69	114.5	422	2.30	10.90	474.5	423	1.32	1.51	114.5
	424	2.15	10.21	474.5	425	2.53	9.12	360.0	429	1.57	5.66	360.0
	433	0.99	4.37	440.0	434	1.63	5.88	360.0	435	1.56	5.63	360.0
	436	1.27	5.59	440.0	437	1.90	6.85	360.0	438	1.51	5.43	360.0
	439	1.30	5.70	440.0	440	1.90	6.85	360.0	441	1.48	5.32	360.0
	442	0.28	0.22	80.0	443	1.63	5.85	360.0				
66	1	0.07	0.08	120.0	98	0.62	2.22	360.0	99	0.45	1.61	360.0
	100	0.62	2.25	360.0	101	0.11	0.09	80.0	102	0.34	0.41	120.0

	103	0.09	0.07	80.0	104	0.36	0.43	120.0	105	0.33	0.39	120.0
	106	0.31	1.36	440.0	107	0.53	1.92	360.0	108	0.57	2.04	360.0
	109	0.42	1.83	440.0	110	0.71	2.54	360.0	111	0.86	3.08	360.0
	112	0.50	2.22	440.0	113	0.71	2.57	360.0	114	0.78	2.80	360.0
	115	0.63	2.03	325.5	116	1.25	5.92	474.5	117	1.35	6.40	474.5
	118	1.81	5.91	325.5	119	0.97	2.37	245.5	120	0.99	3.55	360.0
	121	0.42	0.34	80.0	122	0.91	2.22	245.5	123	0.73	2.63	360.0
	124	0.13	0.10	80.0	125	0.70	2.53	360.0	126	0.84	3.03	360.0
	127	1.19	2.26	190.0	129	0.94	1.79	190.0	132	1.54	2.93	190.0
	134	1.02	3.69	360.0	135	1.31	2.50	190.0	137	1.54	2.92	190.0
	138	1.13	2.15	190.0	141	0.93	1.77	190.0	144	0.75	1.42	190.0
	145	0.45	1.98	440.0	146	0.67	2.41	360.0	147	0.61	2.19	360.0
	165	0.67	2.43	360.0	204	0.51	1.83	360.0	205	2.74	3.14	114.5
	207	1.15	2.83	245.5	212	0.57	2.04	360.0	215	1.22	3.96	325.5
	223	0.85	3.06	360.0	231	1.05	2.59	245.5	237	0.67	2.42	360.0
	244	0.08	0.06	80.0	245	0.23	0.27	120.0	246	0.27	0.33	120.0
	247	0.24	0.29	120.0	248	0.19	0.23	120.0	249	0.01	8.45e-03	80.0
	254	0.60	2.17	360.0	267	0.75	3.31	440.0	275	0.42	1.37	325.5
	284	1.76	5.72	325.5	296	0.09	0.07	80.0	304	0.55	1.98	360.0
	310	0.25	0.30	120.0	311	0.52	0.62	120.0	312	0.51	0.61	120.0
	313	0.24	0.28	120.0	314	0.49	0.59	120.0	315	0.48	0.58	120.0
	316	0.14	0.17	120.0	317	0.25	0.30	120.0	318	0.28	0.34	120.0
	319	0.25	0.29	120.0	320	0.21	0.25	120.0	321	0.02	8.45e-03	40.0
	322	0.32	0.38	120.0	323	0.39	0.47	120.0	324	0.61	0.73	120.0
	325	0.30	0.36	120.0	326	0.36	0.44	120.0	327	0.60	0.71	120.0
	328	0.14	0.17	120.0	329	0.27	0.32	120.0	330	0.28	0.34	120.0
	331	0.24	0.29	120.0	332	0.23	0.27	120.0	333	0.11	0.09	80.0
	334	0.28	0.33	120.0	335	0.25	0.30	120.0	336	0.19	0.23	120.0
	337	0.13	0.16	120.0	338	0.15	0.18	120.0	348	0.30	1.34	440.0
	350	0.32	1.42	440.0	356	0.66	2.14	325.5	363	0.72	2.35	325.5
	364	0.75	2.45	325.5	369	0.69	2.26	325.5	375	0.36	0.28	80.0
	376	1.18	1.35	114.5	379	1.16	4.18	360.0	381	0.69	1.69	245.5
	382	0.55	1.99	360.0	383	0.37	1.35	360.0	384	0.44	1.60	360.0
	385	1.50	3.68	245.5	386	0.48	1.72	360.0	390	0.78	2.55	325.5
	392	1.02	1.17	114.5	393	0.99	3.57	360.0	396	0.09	0.07	80.0
	397	0.37	0.44	120.0	398	0.24	0.28	114.5	399	2.01	2.30	114.5
	403	0.39	0.44	114.5	407	0.49	1.78	360.0	408	0.53	1.90	360.0
	421	0.79	0.91	114.5	422	0.94	4.48	474.5	423	0.70	0.80	114.5
	424	0.83	3.92	474.5	425	0.99	3.55	360.0	429	0.64	2.32	360.0
	433	0.41	1.82	440.0	434	0.66	2.36	360.0	435	0.64	2.30	360.0
	436	0.56	2.45	440.0	437	0.79	2.84	360.0	438	0.60	2.18	360.0
	439	0.59	2.61	440.0	440	0.81	2.93	360.0	441	0.59	2.13	360.0
	442	0.14	0.11	80.0	443	0.71	2.57	360.0				
67	1	0.13	0.15	120.0	98	0.88	3.17	360.0	99	0.94	3.37	360.0
	100	0.96	3.46	360.0	101	0.21	0.17	80.0	102	0.60	0.71	120.0
	103	0.16	0.12	80.0	104	0.63	0.76	120.0	105	0.57	0.68	120.0
	106	0.45	1.99	440.0	107	0.80	2.88	360.0	108	0.90	3.25	360.0
	109	0.49	2.14	440.0	110	0.87	3.13	360.0	111	1.06	3.82	360.0
	112	0.68	3.00	440.0	113	0.99	3.55	360.0	114	0.86	3.09	360.0
	115	1.96	6.39	325.5	116	1.07	5.08	474.5	117	0.98	4.66	474.5
	118	2.18	7.09	325.5	119	0.84	2.06	245.5	120	0.70	2.52	360.0
	121	0.44	0.35	80.0	122	0.66	1.63	245.5	123	0.73	2.62	360.0
	124	0.15	0.12	80.0	125	0.85	3.05	360.0	126	1.04	3.76	360.0
	127	1.60	3.05	190.0	129	1.51	2.88	190.0	132	1.71	3.26	190.0
	134	1.22	4.39	360.0	135	0.92	1.74	190.0	137	1.56	2.96	190.0
	138	1.38	2.62	190.0	141	1.13	2.14	190.0	144	1.28	2.43	190.0
	145	0.52	2.30	440.0	146	0.88	3.16	360.0	147	0.95	3.43	360.0
	165	0.75	2.70	360.0	204	0.90	3.23	360.0	205	3.34	3.83	114.5
	207	1.10	2.69	245.5	212	0.66	2.38	360.0	215	1.35	4.39	325.5
	223	0.75	2.71	360.0	231	1.03	2.53	245.5	237	0.97	3.50	360.0
	244	0.07	0.05	80.0	245	0.31	0.37	120.0	246	0.40	0.48	120.0
	247	0.32	0.38	120.0	248	0.25	0.30	120.0	249	0.02	0.01	80.0
	254	1.00	3.61	360.0	267	0.53	2.33	440.0	275	1.93	6.28	325.5
	284	2.15	6.99	325.5	296	0.13	0.11	80.0	304	0.83	2.97	360.0
	310	0.44	0.53	120.0	311	0.94	1.13	120.0	312	0.94	1.13	120.0
	313	0.43	0.51	120.0	314	0.89	1.07	120.0	315	0.89	1.07	120.0
	316	0.14	0.17	120.0	317	0.36	0.43	120.0	318	0.42	0.50	120.0
	319	0.33	0.39	120.0	320	0.28	0.34	120.0	321	0.03	0.01	40.0
	322	0.56	0.67	120.0	323	0.67	0.80	120.0	324	1.10	1.33	120.0
	325	0.54	0.64	120.0	326	0.63	0.76	120.0	327	1.08	1.29	120.0
	328	0.16	0.20	120.0	329	0.39	0.47	120.0	330	0.43	0.51	120.0
	331	0.33	0.40	120.0	332	0.31	0.37	120.0	333	0.15	0.12	80.0
	334	0.45	0.54	120.0	335	0.42	0.51	120.0	336	0.27	0.32	120.0
	337	0.16	0.19	120.0	338	0.20	0.24	120.0	348	0.69	3.04	440.0
	350	0.43	1.89	440.0	356	0.32	1.03	325.5	363	0.56	1.82	325.5
	364	0.68	2.20	325.5	369	0.50	1.61	325.5	375	0.35	0.28	80.0
	376	0.85	0.97	114.5	379	0.99	3.58	360.0	381	0.56	1.37	245.5

	382	0.87	3.13	360.0	383	0.53	1.90	360.0	384	0.57	2.06	360.0
	385	1.69	4.14	245.5	386	0.53	1.90	360.0	390	0.61	1.99	325.5
	392	0.82	0.93	114.5	393	0.70	2.53	360.0	396	0.15	0.12	80.0
	397	0.64	0.77	120.0	398	0.52	0.60	114.5	399	2.26	2.59	114.5
	403	0.76	0.87	114.5	407	0.46	1.64	360.0	408	0.78	2.82	360.0
	421	0.73	0.84	114.5	422	1.11	5.29	474.5	423	0.66	0.76	114.5
	424	1.05	4.98	474.5	425	1.36	4.90	360.0	429	0.99	3.55	360.0
	433	0.65	2.85	440.0	434	1.11	4.00	360.0	435	1.07	3.86	360.0
	436	0.86	3.79	440.0	437	1.36	4.90	360.0	438	1.09	3.94	360.0
	439	0.92	4.03	440.0	440	1.39	5.02	360.0	441	1.06	3.82	360.0
	442	0.24	0.19	80.0	443	1.19	4.29	360.0				
68	1	0.21	0.26	120.0	98	1.12	4.03	360.0	99	1.83	6.61	360.0
	100	1.76	6.32	360.0	101	0.12	0.10	80.0	102	0.84	1.01	120.0
	103	0.24	0.20	80.0	104	1.02	1.23	120.0	105	0.97	1.17	120.0
	106	0.75	3.28	440.0	107	1.36	4.89	360.0	108	1.54	5.55	360.0
	109	0.84	3.69	440.0	110	1.57	5.64	360.0	111	1.86	6.68	360.0
	112	1.19	5.24	440.0	113	1.74	6.28	360.0	114	1.54	5.56	360.0
	115	1.95	6.33	325.5	116	1.83	8.68	474.5	117	1.79	8.48	474.5
	118	1.30	4.24	325.5	119	4.67	11.46	245.5	120	1.47	5.31	360.0
	121	0.30	0.24	80.0	122	3.41	8.37	245.5	123	1.33	4.80	360.0
	124	0.24	0.19	80.0	125	1.61	5.78	360.0	126	1.86	6.71	360.0
	127	2.93	5.56	190.0	129	2.35	4.47	190.0	132	3.03	5.75	190.0
	134	1.81	6.52	360.0	135	1.93	3.67	190.0	137	2.70	5.12	190.0
	138	2.48	4.71	190.0	141	2.13	4.04	190.0	144	1.96	3.72	190.0
	145	1.09	4.77	440.0	146	1.75	6.31	360.0	147	1.67	6.01	360.0
	165	1.70	6.13	360.0	204	1.43	5.14	360.0	205	2.01	2.30	114.5
	207	2.25	5.53	245.5	212	2.73	9.83	360.0	215	0.81	2.63	325.5
	223	3.84	13.83	360.0	231	1.98	4.87	245.5	237	1.64	5.92	360.0
	244	0.05	0.04	80.0	245	0.36	0.43	120.0	246	0.45	0.54	120.0
	247	0.62	0.75	120.0	248	0.48	0.58	120.0	249	0.02	0.02	80.0
	254	1.82	6.54	360.0	267	0.96	4.24	440.0	275	1.87	6.10	325.5
	284	1.19	3.87	325.5	296	0.26	0.21	80.0	304	1.49	5.36	360.0
	310	0.66	0.79	120.0	311	1.43	1.71	120.0	312	1.44	1.73	120.0
	313	0.67	0.80	120.0	314	1.43	1.72	120.0	315	1.48	1.78	120.0
	316	0.09	0.10	120.0	317	0.41	0.49	120.0	318	0.47	0.56	120.0
	319	0.64	0.77	120.0	320	0.55	0.65	120.0	321	0.05	0.02	40.0
	322	0.83	1.00	120.0	323	0.96	1.16	120.0	324	1.72	2.07	120.0
	325	0.84	1.01	120.0	326	1.05	1.26	120.0	327	1.79	2.15	120.0
	328	0.28	0.33	120.0	329	0.44	0.53	120.0	330	0.47	0.57	120.0
	331	0.65	0.78	120.0	332	0.60	0.72	120.0	333	0.28	0.22	80.0
	334	0.63	0.76	120.0	335	0.69	0.83	120.0	336	0.31	0.37	120.0
	337	0.32	0.39	120.0	338	0.39	0.47	120.0	348	0.98	4.32	440.0
	350	0.83	3.65	440.0	356	0.27	0.88	325.5	363	0.66	2.16	325.5
	364	1.45	4.71	325.5	369	1.32	4.28	325.5	375	0.17	0.13	80.0
	376	2.29	2.62	114.5	379	2.29	8.24	360.0	381	1.43	3.51	245.5
	382	1.47	5.28	360.0	383	0.96	3.44	360.0	384	0.74	2.65	360.0
	385	1.13	2.76	245.5	386	0.97	3.50	360.0	390	1.09	3.56	325.5
	392	1.80	2.06	114.5	393	1.75	6.29	360.0	396	0.24	0.19	80.0
	397	0.94	1.13	120.0	398	1.06	1.21	114.5	399	1.47	1.69	114.5
	403	1.42	1.63	114.5	407	1.40	5.04	360.0	408	1.53	5.52	360.0
	421	1.69	1.94	114.5	422	1.98	9.39	474.5	423	1.55	1.78	114.5
	424	1.79	8.51	474.5	425	1.84	6.64	360.0	429	1.81	6.52	360.0
	433	1.15	5.06	440.0	434	1.96	7.06	360.0	435	1.92	6.90	360.0
	436	1.47	6.48	440.0	437	2.31	8.31	360.0	438	1.92	6.92	360.0
	439	1.53	6.73	440.0	440	2.34	8.41	360.0	441	1.88	6.78	360.0
	442	0.28	0.23	80.0	443	2.02	7.26	360.0				
69	1	0.20	0.24	120.0	98	1.07	3.87	360.0	99	1.59	5.73	360.0
	100	1.63	5.87	360.0	101	0.13	0.10	80.0	102	0.79	0.95	120.0
	103	0.23	0.19	80.0	104	0.96	1.15	120.0	105	0.88	1.05	120.0
	106	0.70	3.10	440.0	107	1.26	4.52	360.0	108	1.42	5.11	360.0
	109	0.79	3.49	440.0	110	1.43	5.15	360.0	111	1.74	6.28	360.0
	112	1.16	5.08	440.0	113	1.62	5.83	360.0	114	1.44	5.19	360.0
	115	1.97	6.42	325.5	116	1.86	8.84	474.5	117	1.85	8.76	474.5
	118	1.33	4.32	325.5	119	4.62	11.34	245.5	120	1.44	5.17	360.0
	121	0.28	0.22	80.0	122	3.35	8.22	245.5	123	1.25	4.48	360.0
	124	0.25	0.20	80.0	125	1.46	5.27	360.0	126	1.77	6.38	360.0
	127	2.74	5.20	190.0	129	2.26	4.30	190.0	132	2.96	5.63	190.0
	134	1.97	7.08	360.0	135	1.93	3.66	190.0	137	2.77	5.27	190.0
	138	2.44	4.63	190.0	141	2.02	3.84	190.0	144	1.95	3.71	190.0
	145	1.05	4.63	440.0	146	1.64	5.92	360.0	147	1.59	5.72	360.0
	165	1.27	4.58	360.0	204	1.36	4.90	360.0	205	1.87	2.15	114.5
	207	2.22	5.44	245.5	212	2.62	9.43	360.0	215	0.75	2.44	325.5
	223	3.71	13.35	360.0	231	1.94	4.76	245.5	237	1.56	5.61	360.0
	244	0.03	0.03	80.0	245	0.34	0.41	120.0	246	0.44	0.53	120.0
	247	0.54	0.65	120.0	248	0.42	0.51	120.0	249	0.02	0.02	80.0
	254	1.69	6.10	360.0	267	0.92	4.06	440.0	275	1.87	6.08	325.5
	284	1.17	3.81	325.5	296	0.24	0.19	80.0	304	1.41	5.07	360.0

	310	0.63	0.76	120.0	311	1.36	1.63	120.0	312	1.35	1.62	120.0
	313	0.64	0.77	120.0	314	1.35	1.62	120.0	315	1.36	1.63	120.0
	316	0.08	0.09	120.0	317	0.40	0.47	120.0	318	0.46	0.55	120.0
	319	0.55	0.66	120.0	320	0.47	0.57	120.0	321	0.05	0.02	40.0
	322	0.80	0.97	120.0	323	0.92	1.10	120.0	324	1.62	1.95	120.0
	325	0.81	0.97	120.0	326	0.97	1.16	120.0	327	1.66	1.99	120.0
	328	0.26	0.32	120.0	329	0.43	0.51	120.0	330	0.46	0.55	120.0
	331	0.56	0.67	120.0	332	0.52	0.62	120.0	333	0.24	0.19	80.0
	334	0.61	0.73	120.0	335	0.65	0.78	120.0	336	0.29	0.35	120.0
	337	0.28	0.33	120.0	338	0.33	0.40	120.0	348	0.93	4.10	440.0
	350	0.80	3.51	440.0	356	0.27	0.88	325.5	363	0.77	2.49	325.5
	364	1.47	4.79	325.5	369	1.29	4.19	325.5	375	0.16	0.13	80.0
	376	2.15	2.46	114.5	379	2.07	7.44	360.0	381	1.38	3.38	245.5
	382	1.43	5.14	360.0	383	0.92	3.29	360.0	384	0.71	2.56	360.0
	385	1.08	2.65	245.5	386	0.92	3.31	360.0	390	0.97	3.17	325.5
	392	1.75	2.00	114.5	393	1.61	5.78	360.0	396	0.23	0.18	80.0
	397	0.90	1.08	120.0	398	0.77	0.89	114.5	399	1.42	1.63	114.5
	403	1.20	1.38	114.5	407	0.93	3.36	360.0	408	1.42	5.12	360.0
	421	1.42	1.62	114.5	422	2.10	9.95	474.5	423	1.26	1.44	114.5
	424	1.94	9.22	474.5	425	2.50	8.98	360.0	429	1.73	6.21	360.0
	433	1.11	4.90	440.0	434	1.87	6.74	360.0	435	1.81	6.53	360.0
	436	1.44	6.33	440.0	437	2.23	8.02	360.0	438	1.81	6.51	360.0
	439	1.50	6.58	440.0	440	2.26	8.12	360.0	441	1.76	6.35	360.0
	442	0.28	0.22	80.0	443	1.93	6.96	360.0				
70	1	0.14	0.17	120.0	98	0.89	3.22	360.0	99	0.93	3.35	360.0
	100	1.08	3.90	360.0	101	0.20	0.16	80.0	102	0.62	0.74	120.0
	103	0.17	0.13	80.0	104	0.69	0.83	120.0	105	0.66	0.79	120.0
	106	0.49	2.17	440.0	107	0.90	3.23	360.0	108	1.02	3.68	360.0
	109	0.53	2.32	440.0	110	1.00	3.60	360.0	111	1.17	4.23	360.0
	112	0.72	3.15	440.0	113	1.11	3.98	360.0	114	0.96	3.47	360.0
	115	1.95	6.35	325.5	116	1.04	4.96	474.5	117	0.93	4.41	474.5
	118	2.18	7.10	325.5	119	0.83	2.04	245.5	120	0.76	2.72	360.0
	121	0.45	0.36	80.0	122	0.68	1.67	245.5	123	0.82	2.95	360.0
	124	0.14	0.11	80.0	125	0.98	3.54	360.0	126	1.13	4.08	360.0
	127	1.79	3.40	190.0	129	1.58	3.00	190.0	132	1.77	3.36	190.0
	134	1.10	3.95	360.0	135	0.92	1.75	190.0	137	1.48	2.81	190.0
	138	1.43	2.71	190.0	141	1.24	2.35	190.0	144	1.30	2.47	190.0
	145	0.56	2.45	440.0	146	0.99	3.56	360.0	147	1.03	3.71	360.0
	165	1.13	4.05	360.0	204	0.98	3.51	360.0	205	3.41	3.90	114.5
	207	1.12	2.75	245.5	212	0.84	3.02	360.0	215	1.38	4.48	325.5
	223	0.98	3.52	360.0	231	1.06	2.60	245.5	237	1.06	3.82	360.0
	244	0.08	0.06	80.0	245	0.30	0.36	120.0	246	0.37	0.44	120.0
	247	0.40	0.47	120.0	248	0.30	0.37	120.0	249	0.01	0.01	80.0
	254	1.12	4.03	360.0	267	0.57	2.50	440.0	275	1.93	6.30	325.5
	284	2.17	7.05	325.5	296	0.16	0.13	80.0	304	0.90	3.26	360.0
	310	0.46	0.55	120.0	311	1.00	1.20	120.0	312	1.02	1.22	120.0
	313	0.45	0.55	120.0	314	0.97	1.17	120.0	315	1.01	1.21	120.0
	316	0.15	0.18	120.0	317	0.33	0.40	120.0	318	0.38	0.46	120.0
	319	0.41	0.49	120.0	320	0.35	0.42	120.0	321	0.03	0.01	40.0
	322	0.58	0.70	120.0	323	0.69	0.83	120.0	324	1.19	1.43	120.0
	325	0.57	0.69	120.0	326	0.71	0.85	120.0	327	1.20	1.44	120.0
	328	0.15	0.18	120.0	329	0.36	0.43	120.0	330	0.39	0.46	120.0
	331	0.42	0.50	120.0	332	0.38	0.46	120.0	333	0.18	0.14	80.0
	334	0.46	0.55	120.0	335	0.46	0.56	120.0	336	0.25	0.30	120.0
	337	0.20	0.24	120.0	338	0.25	0.30	120.0	348	0.74	3.26	440.0
	350	0.46	2.02	440.0	356	0.31	1.01	325.5	363	0.47	1.53	325.5
	364	0.63	2.05	325.5	369	0.52	1.70	325.5	375	0.35	0.28	80.0
	376	1.02	1.16	114.5	379	1.31	4.70	360.0	381	0.61	1.50	245.5
	382	0.91	3.27	360.0	383	0.57	2.04	360.0	384	0.58	2.09	360.0
	385	1.72	4.22	245.5	386	0.58	2.08	360.0	390	0.79	2.58	325.5
	392	0.87	0.99	114.5	393	0.86	3.09	360.0	396	0.16	0.13	80.0
	397	0.66	0.80	120.0	398	0.77	0.88	114.5	399	2.30	2.64	114.5
	403	0.96	1.10	114.5	407	0.92	3.30	360.0	408	0.90	3.22	360.0
	421	1.02	1.17	114.5	422	1.01	4.79	474.5	423	0.97	1.11	114.5
	424	0.92	4.38	474.5	425	0.74	2.66	360.0	429	1.07	3.84	360.0
	433	0.68	3.00	440.0	434	1.20	4.30	360.0	435	1.17	4.21	360.0
	436	0.89	3.93	440.0	437	1.44	5.17	360.0	438	1.20	4.33	360.0
	439	0.95	4.17	440.0	440	1.47	5.29	360.0	441	1.17	4.23	360.0
	442	0.25	0.20	80.0	443	1.27	4.57	360.0				
71	1	0.13	0.15	120.0	98	0.85	3.05	360.0	99	0.86	3.08	360.0
	100	0.97	3.50	360.0	101	0.14	0.12	80.0	102	0.58	0.70	120.0
	103	0.15	0.12	80.0	104	0.62	0.74	120.0	105	0.55	0.66	120.0
	106	0.44	1.92	440.0	107	0.77	2.79	360.0	108	0.88	3.17	360.0
	109	0.47	2.05	440.0	110	0.83	3.00	360.0	111	1.02	3.69	360.0
	112	0.70	3.10	440.0	113	0.98	3.53	360.0	114	0.80	2.90	360.0
	115	1.96	6.37	325.5	116	0.98	4.67	474.5	117	0.92	4.35	474.5
	118	2.10	6.83	325.5	119	0.63	1.54	245.5	120	0.71	2.55	360.0

	121	0.43	0.34	80.0	122	0.60	1.46	245.5	123	0.68	2.44	360.0
	124	0.14	0.12	80.0	125	0.82	2.96	360.0	126	1.02	3.67	360.0
	127	1.59	3.02	190.0	129	1.49	2.82	190.0	132	1.69	3.22	190.0
	134	1.20	4.32	360.0	135	0.92	1.75	190.0	137	1.55	2.95	190.0
	138	1.38	2.62	190.0	141	1.14	2.17	190.0	144	1.23	2.34	190.0
	145	0.57	2.51	440.0	146	0.92	3.31	360.0	147	0.95	3.42	360.0
	165	0.71	2.55	360.0	204	0.85	3.07	360.0	205	3.24	3.71	114.5
	207	1.16	2.85	245.5	212	0.71	2.54	360.0	215	1.32	4.28	325.5
	223	0.92	3.30	360.0	231	1.04	2.55	245.5	237	0.94	3.37	360.0
	244	0.06	0.05	80.0	245	0.30	0.36	120.0	246	0.39	0.46	120.0
	247	0.31	0.38	120.0	248	0.25	0.30	120.0	249	0.01	0.01	80.0
	254	1.03	3.69	360.0	267	0.47	2.06	440.0	275	1.93	6.28	325.5
	284	2.07	6.75	325.5	296	0.14	0.11	80.0	304	0.84	3.03	360.0
	310	0.43	0.52	120.0	311	0.92	1.11	120.0	312	0.92	1.10	120.0
	313	0.42	0.50	120.0	314	0.87	1.05	120.0	315	0.87	1.04	120.0
	316	0.14	0.17	120.0	317	0.35	0.42	120.0	318	0.40	0.49	120.0
	319	0.32	0.38	120.0	320	0.27	0.33	120.0	321	0.03	0.01	40.0
	322	0.55	0.65	120.0	323	0.65	0.78	120.0	324	1.08	1.30	120.0
	325	0.52	0.63	120.0	326	0.62	0.74	120.0	327	1.05	1.27	120.0
	328	0.16	0.19	120.0	329	0.38	0.45	120.0	330	0.41	0.50	120.0
	331	0.32	0.39	120.0	332	0.30	0.36	120.0	333	0.14	0.11	80.0
	334	0.44	0.52	120.0	335	0.41	0.50	120.0	336	0.26	0.31	120.0
	337	0.16	0.19	120.0	338	0.19	0.23	120.0	348	0.68	2.98	440.0
	350	0.45	1.97	440.0	356	0.22	0.72	325.5	363	0.51	1.66	325.5
	364	0.75	2.46	325.5	369	0.60	1.96	325.5	375	0.34	0.27	80.0
	376	1.00	1.14	114.5	379	1.07	3.84	360.0	381	0.60	1.47	245.5
	382	0.87	3.14	360.0	383	0.54	1.95	360.0	384	0.56	2.02	360.0
	385	1.64	4.03	245.5	386	0.51	1.84	360.0	390	0.63	2.06	325.5
	392	0.86	0.98	114.5	393	0.73	2.61	360.0	396	0.15	0.12	80.0
	397	0.62	0.75	120.0	398	0.48	0.55	114.5	399	2.21	2.53	114.5
	403	0.73	0.84	114.5	407	0.51	1.85	360.0	408	0.81	2.92	360.0
	421	0.70	0.81	114.5	422	1.06	5.04	474.5	423	0.63	0.72	114.5
	424	0.99	4.69	474.5	425	1.37	4.94	360.0	429	1.01	3.64	360.0
	433	0.66	2.92	440.0	434	1.14	4.09	360.0	435	1.10	3.96	360.0
	436	0.87	3.83	440.0	437	1.38	4.97	360.0	438	1.12	4.04	360.0
	439	0.92	4.04	440.0	440	1.41	5.06	360.0	441	1.09	3.92	360.0
	442	0.23	0.18	80.0	443	1.20	4.32	360.0				
72	1	0.21	0.26	120.0	98	1.14	4.11	360.0	99	1.74	6.28	360.0
	100	1.74	6.26	360.0	101	0.19	0.15	80.0	102	0.85	1.02	120.0
	103	0.25	0.20	80.0	104	1.04	1.24	120.0	105	0.99	1.18	120.0
	106	0.76	3.36	440.0	107	1.39	4.99	360.0	108	1.57	5.64	360.0
	109	0.86	3.78	440.0	110	1.61	5.78	360.0	111	1.90	6.82	360.0
	112	1.17	5.16	440.0	113	1.76	6.33	360.0	114	1.60	5.75	360.0
	115	1.95	6.36	325.5	116	1.91	9.09	474.5	117	1.85	8.76	474.5
	118	1.38	4.49	325.5	119	4.35	10.68	245.5	120	1.46	5.27	360.0
	121	0.31	0.25	80.0	122	3.29	8.06	245.5	123	1.38	4.98	360.0
	124	0.24	0.20	80.0	125	1.63	5.88	360.0	126	1.89	6.81	360.0
	127	2.94	5.58	190.0	129	2.38	4.51	190.0	132	3.05	5.79	190.0
	134	1.83	6.59	360.0	135	1.93	3.67	190.0	137	2.70	5.13	190.0
	138	2.48	4.70	190.0	141	2.11	4.01	190.0	144	2.01	3.81	190.0
	145	1.03	4.54	440.0	146	1.71	6.15	360.0	147	1.67	6.03	360.0
	165	1.78	6.42	360.0	204	1.48	5.31	360.0	205	2.11	2.41	114.5
	207	2.18	5.35	245.5	212	2.67	9.62	360.0	215	0.85	2.77	325.5
	223	3.68	13.25	360.0	231	1.97	4.84	245.5	237	1.69	6.07	360.0
	244	0.05	0.04	80.0	245	0.36	0.43	120.0	246	0.46	0.55	120.0
	247	0.63	0.76	120.0	248	0.49	0.58	120.0	249	0.02	0.02	80.0
	254	1.79	6.43	360.0	267	1.04	4.57	440.0	275	1.87	6.10	325.5
	284	1.26	4.11	325.5	296	0.26	0.21	80.0	304	1.47	5.28	360.0
	310	0.67	0.80	120.0	311	1.45	1.74	120.0	312	1.47	1.76	120.0
	313	0.68	0.81	120.0	314	1.45	1.74	120.0	315	1.50	1.80	120.0
	316	0.09	0.10	120.0	317	0.41	0.49	120.0	318	0.47	0.57	120.0
	319	0.65	0.78	120.0	320	0.55	0.66	120.0	321	0.05	0.02	40.0
	322	0.85	1.02	120.0	323	0.98	1.17	120.0	324	1.75	2.10	120.0
	325	0.85	1.03	120.0	326	1.06	1.28	120.0	327	1.81	2.17	120.0
	328	0.28	0.33	120.0	329	0.45	0.54	120.0	330	0.48	0.57	120.0
	331	0.66	0.79	120.0	332	0.60	0.72	120.0	333	0.28	0.22	80.0
	334	0.64	0.77	120.0	335	0.70	0.84	120.0	336	0.31	0.37	120.0
	337	0.33	0.39	120.0	338	0.39	0.47	120.0	348	0.98	4.33	440.0
	350	0.81	3.55	440.0	356	0.18	0.57	325.5	363	0.63	2.06	325.5
	364	1.35	4.40	325.5	369	1.21	3.94	325.5	375	0.18	0.14	80.0
	376	2.14	2.45	114.5	379	2.21	7.96	360.0	381	1.38	3.40	245.5
	382	1.46	5.25	360.0	383	0.94	3.37	360.0	384	0.73	2.65	360.0
	385	1.18	2.89	245.5	386	0.99	3.57	360.0	390	1.06	3.46	325.5
	392	1.76	2.01	114.5	393	1.73	6.24	360.0	396	0.24	0.20	80.0
	397	0.95	1.14	120.0	398	1.10	1.26	114.5	399	1.53	1.75	114.5
	403	1.45	1.66	114.5	407	1.38	4.97	360.0	408	1.50	5.40	360.0
	421	1.71	1.96	114.5	422	2.03	9.65	474.5	423	1.58	1.81	114.5

	424	1.86	8.81	474.5	425	1.82	6.55	360.0	429	1.78	6.41	360.0
	433	1.13	4.97	440.0	434	1.93	6.95	360.0	435	1.88	6.78	360.0
	436	1.46	6.43	440.0	437	2.28	8.22	360.0	438	1.89	6.80	360.0
	439	1.52	6.71	440.0	440	2.32	8.34	360.0	441	1.85	6.65	360.0
	442	0.29	0.23	80.0	443	2.00	7.21	360.0				
73	1	0.20	0.24	120.0	98	1.10	3.95	360.0	99	1.51	5.44	360.0
	100	1.61	5.80	360.0	101	0.20	0.16	80.0	102	0.80	0.96	120.0
	103	0.24	0.19	80.0	104	0.97	1.17	120.0	105	0.89	1.07	120.0
	106	0.72	3.17	440.0	107	1.28	4.62	360.0	108	1.44	5.19	360.0
	109	0.82	3.59	440.0	110	1.47	5.29	360.0	111	1.78	6.42	360.0
	112	1.14	5.00	440.0	113	1.63	5.87	360.0	114	1.50	5.38	360.0
	115	1.98	6.45	325.5	116	1.95	9.24	474.5	117	1.90	9.03	474.5
	118	1.41	4.58	325.5	119	4.30	10.55	245.5	120	1.42	5.11	360.0
	121	0.30	0.24	80.0	122	3.23	7.92	245.5	123	1.29	4.66	360.0
	124	0.25	0.20	80.0	125	1.49	5.37	360.0	126	1.80	6.47	360.0
	127	2.75	5.22	190.0	129	2.29	4.35	190.0	132	2.98	5.66	190.0
	134	1.98	7.15	360.0	135	1.93	3.66	190.0	137	2.78	5.28	190.0
	138	2.43	4.62	190.0	141	2.00	3.80	190.0	144	2.00	3.79	190.0
	145	1.00	4.40	440.0	146	1.60	5.75	360.0	147	1.59	5.73	360.0
	165	1.34	4.82	360.0	204	1.40	5.05	360.0	205	1.98	2.27	114.5
	207	2.14	5.26	245.5	212	2.56	9.20	360.0	215	0.79	2.56	325.5
	223	3.53	12.72	360.0	231	1.93	4.74	245.5	237	1.60	5.76	360.0
	244	0.03	0.03	80.0	245	0.35	0.42	120.0	246	0.45	0.54	120.0
	247	0.55	0.66	120.0	248	0.43	0.51	120.0	249	0.02	0.02	80.0
	254	1.67	6.00	360.0	267	1.00	4.39	440.0	275	1.87	6.09	325.5
	284	1.24	4.05	325.5	296	0.23	0.18	80.0	304	1.39	4.99	360.0
	310	0.64	0.77	120.0	311	1.38	1.66	120.0	312	1.37	1.64	120.0
	313	0.65	0.78	120.0	314	1.37	1.64	120.0	315	1.38	1.65	120.0
	316	0.08	0.09	120.0	317	0.40	0.48	120.0	318	0.47	0.56	120.0
	319	0.56	0.67	120.0	320	0.48	0.57	120.0	321	0.05	0.02	40.0
	322	0.82	0.98	120.0	323	0.93	1.12	120.0	324	1.64	1.97	120.0
	325	0.82	0.98	120.0	326	0.98	1.18	120.0	327	1.68	2.02	120.0
	328	0.27	0.32	120.0	329	0.44	0.52	120.0	330	0.47	0.57	120.0
	331	0.57	0.68	120.0	332	0.52	0.63	120.0	333	0.25	0.20	80.0
	334	0.62	0.74	120.0	335	0.66	0.79	120.0	336	0.30	0.36	120.0
	337	0.28	0.34	120.0	338	0.34	0.41	120.0	348	0.93	4.11	440.0
	350	0.78	3.41	440.0	356	0.18	0.57	325.5	363	0.74	2.41	325.5
	364	1.38	4.49	325.5	369	1.18	3.85	325.5	375	0.17	0.14	80.0
	376	2.00	2.29	114.5	379	1.98	7.11	360.0	381	1.33	3.26	245.5
	382	1.42	5.11	360.0	383	0.90	3.23	360.0	384	0.71	2.56	360.0
	385	1.13	2.77	245.5	386	0.94	3.39	360.0	390	0.94	3.06	325.5
	392	1.70	1.95	114.5	393	1.58	5.71	360.0	396	0.23	0.19	80.0
	397	0.91	1.09	120.0	398	0.81	0.93	114.5	399	1.48	1.69	114.5
	403	1.23	1.41	114.5	407	0.88	3.18	360.0	408	1.39	5.00	360.0
	421	1.44	1.65	114.5	422	2.15	10.19	474.5	423	1.29	1.48	114.5
	424	2.00	9.49	474.5	425	2.48	8.94	360.0	429	1.70	6.10	360.0
	433	1.09	4.81	440.0	434	1.84	6.64	360.0	435	1.78	6.41	360.0
	436	1.43	6.27	440.0	437	2.20	7.94	360.0	438	1.78	6.39	360.0
	439	1.49	6.56	440.0	440	2.24	8.06	360.0	441	1.73	6.23	360.0
	442	0.28	0.23	80.0	443	1.92	6.91	360.0				
74	1	0.14	0.17	120.0	98	0.86	3.11	360.0	99	0.90	3.22	360.0
	100	1.10	3.95	360.0	101	0.14	0.11	80.0	102	0.60	0.72	120.0
	103	0.16	0.13	80.0	104	0.68	0.81	120.0	105	0.64	0.77	120.0
	106	0.48	2.10	440.0	107	0.87	3.14	360.0	108	1.00	3.60	360.0
	109	0.51	2.23	440.0	110	0.96	3.46	360.0	111	1.14	4.09	360.0
	112	0.74	3.25	440.0	113	1.10	3.94	360.0	114	0.91	3.27	360.0
	115	1.95	6.34	325.5	116	0.96	4.55	474.5	117	0.86	4.08	474.5
	118	2.10	6.85	325.5	119	0.64	1.58	245.5	120	0.75	2.71	360.0
	121	0.43	0.35	80.0	122	0.63	1.54	245.5	123	0.77	2.76	360.0
	124	0.13	0.11	80.0	125	0.96	3.45	360.0	126	1.11	3.99	360.0
	127	1.78	3.38	190.0	129	1.55	2.95	190.0	132	1.75	3.32	190.0
	134	1.08	3.88	360.0	135	0.92	1.75	190.0	137	1.47	2.80	190.0
	138	1.43	2.72	190.0	141	1.25	2.38	190.0	144	1.24	2.35	190.0
	145	0.60	2.66	440.0	146	1.03	3.71	360.0	147	1.03	3.70	360.0
	165	1.05	3.78	360.0	204	0.92	3.32	360.0	205	3.30	3.78	114.5
	207	1.19	2.92	245.5	212	0.87	3.12	360.0	215	1.34	4.36	325.5
	223	1.08	3.89	360.0	231	1.07	2.63	245.5	237	1.02	3.67	360.0
	244	0.08	0.06	80.0	245	0.29	0.35	120.0	246	0.36	0.43	120.0
	247	0.39	0.47	120.0	248	0.30	0.36	120.0	249	0.01	0.01	80.0
	254	1.14	4.12	360.0	267	0.51	2.23	440.0	275	1.93	6.29	325.5
	284	2.09	6.81	325.5	296	0.16	0.13	80.0	304	0.92	3.32	360.0
	310	0.45	0.54	120.0	311	0.98	1.17	120.0	312	1.00	1.20	120.0
	313	0.45	0.53	120.0	314	0.95	1.14	120.0	315	0.99	1.18	120.0
	316	0.15	0.18	120.0	317	0.33	0.39	120.0	318	0.37	0.45	120.0
	319	0.40	0.48	120.0	320	0.34	0.41	120.0	321	0.03	0.01	40.0
	322	0.57	0.68	120.0	323	0.68	0.81	120.0	324	1.17	1.40	120.0
	325	0.56	0.67	120.0	326	0.69	0.83	120.0	327	1.18	1.42	120.0

	328	0.14	0.17	120.0	329	0.35	0.42	120.0	330	0.38	0.45	120.0
	331	0.41	0.49	120.0	332	0.37	0.45	120.0	333	0.17	0.14	80.0
	334	0.45	0.54	120.0	335	0.45	0.54	120.0	336	0.25	0.30	120.0
	337	0.20	0.24	120.0	338	0.24	0.29	120.0	348	0.73	3.21	440.0
	350	0.48	2.11	440.0	356	0.22	0.70	325.5	363	0.41	1.33	325.5
	364	0.72	2.34	325.5	369	0.63	2.05	325.5	375	0.34	0.27	80.0
	376	1.16	1.32	114.5	379	1.36	4.89	360.0	381	0.65	1.61	245.5
	382	0.91	3.28	360.0	383	0.58	2.09	360.0	384	0.57	2.05	360.0
	385	1.67	4.11	245.5	386	0.56	2.01	360.0	390	0.81	2.64	325.5
	392	0.91	1.04	114.5	393	0.87	3.13	360.0	396	0.16	0.13	80.0
	397	0.65	0.78	120.0	398	0.73	0.84	114.5	399	2.25	2.58	114.5
	403	0.93	1.06	114.5	407	0.92	3.32	360.0	408	0.92	3.32	360.0
	421	1.00	1.15	114.5	422	0.95	4.52	474.5	423	0.95	1.08	114.5
	424	0.85	4.01	474.5	425	0.78	2.79	360.0	429	1.09	3.94	360.0
	433	0.70	3.08	440.0	434	1.22	4.40	360.0	435	1.20	4.32	360.0
	436	0.90	3.98	440.0	437	1.46	5.24	360.0	438	1.23	4.44	360.0
	439	0.95	4.18	440.0	440	1.48	5.34	360.0	441	1.20	4.34	360.0
	442	0.24	0.19	80.0	443	1.28	4.61	360.0				
75	1	0.13	0.16	120.0	98	0.80	2.90	360.0	99	0.81	2.93	360.0
	100	0.91	3.26	360.0	101	0.18	0.14	80.0	102	0.51	0.61	120.0
	103	0.12	0.10	80.0	104	0.52	0.63	120.0	105	0.47	0.57	120.0
	106	0.37	1.63	440.0	107	0.68	2.45	360.0	108	0.79	2.83	360.0
	109	0.41	1.80	440.0	110	0.75	2.70	360.0	111	0.94	3.37	360.0
	112	0.51	2.26	440.0	113	0.86	3.10	360.0	114	0.87	3.14	360.0
	115	1.14	3.70	325.5	116	1.17	5.57	474.5	117	1.05	4.97	474.5
	118	1.73	5.62	325.5	119	1.01	2.49	245.5	120	0.76	2.72	360.0
	121	0.41	0.33	80.0	122	0.62	1.52	245.5	123	0.93	3.33	360.0
	124	0.17	0.13	80.0	125	0.94	3.39	360.0	126	1.13	4.08	360.0
	127	1.64	3.11	190.0	129	1.46	2.77	190.0	132	1.59	3.01	190.0
	134	1.07	3.86	360.0	135	0.82	1.56	190.0	137	1.59	3.01	190.0
	138	1.59	3.02	190.0	141	1.25	2.37	190.0	144	1.41	2.68	190.0
	145	0.59	2.58	440.0	146	1.00	3.59	360.0	147	1.11	3.98	360.0
	165	0.63	2.26	360.0	204	1.04	3.74	360.0	205	2.71	3.11	114.5
	207	1.18	2.90	245.5	212	0.53	1.92	360.0	215	1.23	4.00	325.5
	223	0.40	1.45	360.0	231	1.13	2.78	245.5	237	1.09	3.92	360.0
	244	0.06	0.05	80.0	245	0.27	0.33	120.0	246	0.35	0.42	120.0
	247	0.28	0.33	120.0	248	0.22	0.26	120.0	249	0.01	0.01	80.0
	254	1.01	3.63	360.0	267	0.46	2.04	440.0	275	1.09	3.53	325.5
	284	1.69	5.51	325.5	296	0.12	0.09	80.0	304	0.76	2.74	360.0
	310	0.36	0.43	120.0	311	0.79	0.95	120.0	312	0.80	0.96	120.0
	313	0.34	0.41	120.0	314	0.74	0.89	120.0	315	0.76	0.91	120.0
	316	0.13	0.16	120.0	317	0.31	0.38	120.0	318	0.37	0.44	120.0
	319	0.28	0.34	120.0	320	0.24	0.29	120.0	321	0.03	0.01	40.0
	322	0.45	0.54	120.0	323	0.57	0.68	120.0	324	0.99	1.19	120.0
	325	0.43	0.51	120.0	326	0.53	0.63	120.0	327	0.96	1.15	120.0
	328	0.15	0.17	120.0	329	0.34	0.41	120.0	330	0.37	0.45	120.0
	331	0.28	0.34	120.0	332	0.26	0.31	120.0	333	0.12	0.10	80.0
	334	0.37	0.45	120.0	335	0.34	0.41	120.0	336	0.24	0.28	120.0
	337	0.14	0.16	120.0	338	0.17	0.20	120.0	348	1.40	6.17	440.0
	350	0.52	2.30	440.0	356	0.32	1.03	325.5	363	0.65	2.11	325.5
	364	0.72	2.35	325.5	369	0.46	1.49	325.5	375	0.36	0.29	80.0
	376	0.79	0.90	114.5	379	1.60	5.77	360.0	381	0.61	1.49	245.5
	382	0.78	2.81	360.0	383	0.47	1.70	360.0	384	0.50	1.81	360.0
	385	1.49	3.65	245.5	386	0.60	2.17	360.0	390	1.01	3.27	325.5
	392	0.83	0.95	114.5	393	0.88	3.18	360.0	396	0.12	0.10	80.0
	397	0.54	0.64	120.0	398	0.86	0.98	114.5	399	2.07	2.37	114.5
	403	0.96	1.10	114.5	407	0.53	1.91	360.0	408	0.93	3.36	360.0
	421	0.77	0.88	114.5	422	0.99	4.71	474.5	423	0.71	0.82	114.5
	424	0.93	4.43	474.5	425	0.90	3.25	360.0	429	1.15	4.15	360.0
	433	0.72	3.18	440.0	434	1.22	4.38	360.0	435	1.13	4.08	360.0
	436	0.88	3.89	440.0	437	1.39	4.99	360.0	438	1.11	4.00	360.0
	439	0.86	3.81	440.0	440	1.34	4.84	360.0	441	1.08	3.90	360.0
	442	0.17	0.13	80.0	443	1.11	3.98	360.0				
76	1	0.22	0.26	120.0	98	1.01	3.62	360.0	99	1.79	6.45	360.0
	100	1.72	6.20	360.0	101	0.09	0.07	80.0	102	0.75	0.90	120.0
	103	0.21	0.17	80.0	104	0.92	1.10	120.0	105	0.88	1.06	120.0
	106	0.67	2.94	440.0	107	1.24	4.47	360.0	108	1.43	5.14	360.0
	109	0.76	3.36	440.0	110	1.45	5.23	360.0	111	1.73	6.24	360.0
	112	1.03	4.52	440.0	113	1.62	5.85	360.0	114	1.55	5.56	360.0
	115	1.15	3.73	325.5	116	1.88	8.93	474.5	117	1.66	7.88	474.5
	118	0.89	2.91	325.5	119	4.38	10.75	245.5	120	1.22	4.38	360.0
	121	0.19	0.15	80.0	122	3.38	8.30	245.5	123	1.44	5.20	360.0
	124	0.26	0.21	80.0	125	1.68	6.06	360.0	126	1.94	6.99	360.0
	127	2.99	5.67	190.0	129	2.29	4.35	190.0	132	2.88	5.47	190.0
	134	1.66	5.99	360.0	135	1.81	3.43	190.0	137	2.69	5.11	190.0
	138	2.70	5.13	190.0	141	2.26	4.30	190.0	144	2.09	3.97	190.0
	145	1.14	5.00	440.0	146	1.86	6.70	360.0	147	1.82	6.55	360.0

	165	1.61	5.78	360.0	204	1.57	5.67	360.0	205	1.42	1.63	114.5
	207	2.30	5.65	245.5	212	2.74	9.86	360.0	215	0.61	1.99	325.5
	223	3.46	12.46	360.0	231	2.05	5.03	245.5	237	1.76	6.32	360.0
	244	0.04	0.03	80.0	245	0.32	0.38	120.0	246	0.41	0.49	120.0
	247	0.58	0.70	120.0	248	0.45	0.54	120.0	249	0.02	0.02	80.0
	254	1.83	6.60	360.0	267	0.91	3.99	440.0	275	1.03	3.35	325.5
	284	0.73	2.39	325.5	296	0.25	0.20	80.0	304	1.44	5.20	360.0
	310	0.57	0.68	120.0	311	1.27	1.53	120.0	312	1.31	1.57	120.0
	313	0.58	0.70	120.0	314	1.29	1.54	120.0	315	1.35	1.62	120.0
	316	0.07	0.09	120.0	317	0.36	0.44	120.0	318	0.42	0.50	120.0
	319	0.60	0.72	120.0	320	0.51	0.61	120.0	321	0.04	0.02	40.0
	322	0.72	0.87	120.0	323	0.86	1.04	120.0	324	1.61	1.93	120.0
	325	0.74	0.88	120.0	326	0.95	1.14	120.0	327	1.67	2.01	120.0
	328	0.25	0.30	120.0	329	0.40	0.48	120.0	330	0.42	0.51	120.0
	331	0.61	0.73	120.0	332	0.56	0.67	120.0	333	0.26	0.21	80.0
	334	0.55	0.67	120.0	335	0.62	0.74	120.0	336	0.28	0.33	120.0
	337	0.30	0.36	120.0	338	0.36	0.43	120.0	348	1.64	7.24	440.0
	350	0.92	4.04	440.0	356	0.27	0.88	325.5	363	0.76	2.48	325.5
	364	1.46	4.75	325.5	369	1.27	4.15	325.5	375	0.18	0.15	80.0
	376	2.24	2.56	114.5	379	2.79	10.05	360.0	381	1.45	3.56	245.5
	382	1.37	4.94	360.0	383	0.92	3.30	360.0	384	0.65	2.32	360.0
	385	0.98	2.40	245.5	386	1.03	3.72	360.0	390	1.37	4.46	325.5
	392	1.79	2.05	114.5	393	1.91	6.89	360.0	396	0.21	0.17	80.0
	397	0.84	1.00	120.0	398	1.28	1.47	114.5	399	1.30	1.48	114.5
	403	1.58	1.81	114.5	407	1.73	6.22	360.0	408	1.68	6.04	360.0
	421	1.74	1.99	114.5	422	1.86	8.82	474.5	423	1.61	1.84	114.5
	424	1.68	7.95	474.5	425	1.51	5.43	360.0	429	1.97	7.11	360.0
	433	1.23	5.40	440.0	434	2.07	7.44	360.0	435	1.98	7.14	360.0
	436	1.50	6.60	440.0	437	2.34	8.43	360.0	438	1.95	7.02	360.0
	439	1.48	6.53	440.0	440	2.30	8.26	360.0	441	1.91	6.89	360.0
	442	0.30	0.24	80.0	443	1.94	7.00	360.0				
77	1	0.20	0.24	120.0	98	0.96	3.46	360.0	99	1.54	5.54	360.0
	100	1.59	5.74	360.0	101	0.10	0.08	80.0	102	0.70	0.84	120.0
	103	0.20	0.16	80.0	104	0.85	1.02	120.0	105	0.78	0.94	120.0
	106	0.62	2.75	440.0	107	1.14	4.10	360.0	108	1.30	4.69	360.0
	109	0.72	3.17	440.0	110	1.32	4.74	360.0	111	1.62	5.84	360.0
	112	0.99	4.35	440.0	113	1.50	5.39	360.0	114	1.44	5.19	360.0
	115	1.19	3.88	325.5	116	1.90	9.04	474.5	117	1.70	8.08	474.5
	118	0.94	3.05	325.5	119	4.33	10.63	245.5	120	1.14	4.10	360.0
	121	0.20	0.16	80.0	122	3.32	8.16	245.5	123	1.35	4.87	360.0
	124	0.27	0.21	80.0	125	1.55	5.57	360.0	126	1.85	6.66	360.0
	127	2.79	5.31	190.0	129	2.20	4.18	190.0	132	2.82	5.35	190.0
	134	1.82	6.55	360.0	135	1.79	3.40	190.0	137	2.77	5.26	190.0
	138	2.66	5.05	190.0	141	2.16	4.10	190.0	144	2.09	3.96	190.0
	145	1.10	4.85	440.0	146	1.75	6.30	360.0	147	1.74	6.25	360.0
	165	1.16	4.17	360.0	204	1.51	5.43	360.0	205	1.25	1.43	114.5
	207	2.27	5.56	245.5	212	2.53	9.12	360.0	215	0.61	1.98	325.5
	223	3.32	11.95	360.0	231	2.01	4.94	245.5	237	1.67	6.02	360.0
	244	0.02	0.02	80.0	245	0.30	0.36	120.0	246	0.39	0.47	120.0
	247	0.50	0.60	120.0	248	0.39	0.46	120.0	249	0.02	0.02	80.0
	254	1.71	6.16	360.0	267	0.87	3.81	440.0	275	1.02	3.33	325.5
	284	0.72	2.33	325.5	296	0.23	0.18	80.0	304	1.36	4.91	360.0
	310	0.54	0.65	120.0	311	1.21	1.45	120.0	312	1.21	1.45	120.0
	313	0.55	0.66	120.0	314	1.20	1.44	120.0	315	1.23	1.48	120.0
	316	0.06	0.07	120.0	317	0.35	0.42	120.0	318	0.41	0.49	120.0
	319	0.51	0.61	120.0	320	0.43	0.52	120.0	321	0.04	0.02	40.0
	322	0.69	0.83	120.0	323	0.81	0.98	120.0	324	1.51	1.81	120.0
	325	0.70	0.84	120.0	326	0.87	1.04	120.0	327	1.54	1.85	120.0
	328	0.24	0.29	120.0	329	0.38	0.46	120.0	330	0.41	0.49	120.0
	331	0.51	0.62	120.0	332	0.47	0.57	120.0	333	0.22	0.18	80.0
	334	0.53	0.64	120.0	335	0.57	0.69	120.0	336	0.26	0.31	120.0
	337	0.25	0.30	120.0	338	0.31	0.37	120.0	348	1.59	7.02	440.0
	350	0.89	3.90	440.0	356	0.27	0.89	325.5	363	0.86	2.81	325.5
	364	1.49	4.85	325.5	369	1.25	4.06	325.5	375	0.18	0.14	80.0
	376	2.09	2.40	114.5	379	2.45	8.81	360.0	381	1.40	3.43	245.5
	382	1.33	4.79	360.0	383	0.88	3.15	360.0	384	0.62	2.23	360.0
	385	0.92	2.26	245.5	386	0.99	3.55	360.0	390	1.21	3.93	325.5
	392	1.74	1.99	114.5	393	1.73	6.22	360.0	396	0.20	0.16	80.0
	397	0.79	0.95	120.0	398	1.05	1.20	114.5	399	1.25	1.43	114.5
	403	1.39	1.59	114.5	407	1.08	3.88	360.0	408	1.57	5.64	360.0
	421	1.45	1.66	114.5	422	1.98	9.37	474.5	423	1.30	1.49	114.5
	424	1.82	8.66	474.5	425	2.04	7.33	360.0	429	1.89	6.80	360.0
	433	1.19	5.24	440.0	434	1.98	7.13	360.0	435	1.88	6.77	360.0
	436	1.46	6.44	440.0	437	2.26	8.14	360.0	438	1.84	6.61	360.0
	439	1.45	6.38	440.0	440	2.22	7.97	360.0	441	1.79	6.46	360.0
	442	0.30	0.24	80.0	443	1.86	6.70	360.0				
78	1	0.14	0.17	120.0	98	0.81	2.91	360.0	99	0.81	2.92	360.0

	100	1.03	3.72	360.0	101	0.17	0.14	80.0	102	0.53	0.63	120.0
	103	0.13	0.11	80.0	104	0.59	0.70	120.0	105	0.56	0.68	120.0
	106	0.41	1.82	440.0	107	0.78	2.81	360.0	108	0.91	3.26	360.0
	109	0.45	1.99	440.0	110	0.88	3.17	360.0	111	1.05	3.77	360.0
	112	0.55	2.42	440.0	113	0.98	3.54	360.0	114	0.98	3.53	360.0
	115	1.11	3.63	325.5	116	1.17	5.54	474.5	117	1.04	4.92	474.5
	118	1.73	5.62	325.5	119	0.99	2.44	245.5	120	0.85	3.06	360.0
	121	0.41	0.33	80.0	122	0.64	1.56	245.5	123	1.01	3.63	360.0
	124	0.16	0.13	80.0	125	1.07	3.86	360.0	126	1.22	4.40	360.0
	127	1.83	3.47	190.0	129	1.52	2.89	190.0	132	1.64	3.11	190.0
	134	0.95	3.42	360.0	135	0.85	1.62	190.0	137	1.51	2.86	190.0
	138	1.64	3.12	190.0	141	1.36	2.58	190.0	144	1.42	2.70	190.0
	145	0.62	2.73	440.0	146	1.11	3.99	360.0	147	1.18	4.26	360.0
	165	1.03	3.70	360.0	204	1.11	4.01	360.0	205	2.79	3.19	114.5
	207	1.20	2.94	245.5	212	0.80	2.87	360.0	215	1.22	3.98	325.5
	223	0.71	2.57	360.0	231	1.15	2.82	245.5	237	1.17	4.22	360.0
	244	0.07	0.06	80.0	245	0.26	0.31	120.0	246	0.32	0.38	120.0
	247	0.35	0.42	120.0	248	0.27	0.32	120.0	249	0.01	0.01	80.0
	254	1.13	4.06	360.0	267	0.51	2.22	440.0	275	1.09	3.55	325.5
	284	1.71	5.57	325.5	296	0.14	0.12	80.0	304	0.84	3.03	360.0
	310	0.37	0.44	120.0	311	0.84	1.01	120.0	312	0.88	1.05	120.0
	313	0.37	0.44	120.0	314	0.83	0.99	120.0	315	0.88	1.05	120.0
	316	0.14	0.16	120.0	317	0.29	0.35	120.0	318	0.33	0.40	120.0
	319	0.36	0.44	120.0	320	0.31	0.37	120.0	321	0.03	0.01	40.0
	322	0.47	0.57	120.0	323	0.59	0.71	120.0	324	1.07	1.29	120.0
	325	0.46	0.56	120.0	326	0.61	0.73	120.0	327	1.09	1.30	120.0
	328	0.13	0.15	120.0	329	0.31	0.37	120.0	330	0.33	0.40	120.0
	331	0.37	0.44	120.0	332	0.34	0.41	120.0	333	0.16	0.12	80.0
	334	0.38	0.46	120.0	335	0.39	0.46	120.0	336	0.22	0.26	120.0
	337	0.18	0.21	120.0	338	0.22	0.26	120.0	348	1.45	6.38	440.0
	350	0.55	2.43	440.0	356	0.31	1.02	325.5	363	0.55	1.80	325.5
	364	0.66	2.16	325.5	369	0.48	1.57	325.5	375	0.36	0.29	80.0
	376	0.98	1.13	114.5	379	2.02	7.28	360.0	381	0.66	1.62	245.5
	382	0.82	2.95	360.0	383	0.51	1.85	360.0	384	0.51	1.82	360.0
	385	1.52	3.74	245.5	386	0.65	2.33	360.0	390	1.20	3.91	325.5
	392	0.88	1.00	114.5	393	1.11	3.98	360.0	396	0.13	0.10	80.0
	397	0.56	0.67	120.0	398	1.03	1.18	114.5	399	2.11	2.42	114.5
	403	1.13	1.29	114.5	407	1.28	4.62	360.0	408	1.05	3.76	360.0
	421	1.09	1.24	114.5	422	0.90	4.25	474.5	423	1.04	1.19	114.5
	424	0.82	3.87	474.5	425	0.68	2.44	360.0	429	1.23	4.43	360.0
	433	0.76	3.34	440.0	434	1.30	4.69	360.0	435	1.23	4.44	360.0
	436	0.92	4.04	440.0	437	1.46	5.27	360.0	438	1.22	4.40	360.0
	439	0.90	3.95	440.0	440	1.42	5.12	360.0	441	1.20	4.31	360.0
	442	0.17	0.14	80.0	443	1.19	4.27	360.0				
79	1	0.13	0.15	120.0	98	0.77	2.77	360.0	99	0.73	2.64	360.0
	100	0.93	3.33	360.0	101	0.12	0.09	80.0	102	0.49	0.59	120.0
	103	0.12	0.10	80.0	104	0.51	0.61	120.0	105	0.46	0.55	120.0
	106	0.36	1.56	440.0	107	0.65	2.35	360.0	108	0.76	2.75	360.0
	109	0.39	1.70	440.0	110	0.71	2.56	360.0	111	0.90	3.23	360.0
	112	0.53	2.34	440.0	113	0.85	3.08	360.0	114	0.82	2.95	360.0
	115	1.13	3.67	325.5	116	1.09	5.18	474.5	117	0.94	4.46	474.5
	118	1.65	5.36	325.5	119	0.72	1.78	245.5	120	0.67	2.41	360.0
	121	0.41	0.32	80.0	122	0.55	1.34	245.5	123	0.87	3.13	360.0
	124	0.16	0.13	80.0	125	0.92	3.31	360.0	126	1.11	4.01	360.0
	127	1.63	3.09	190.0	129	1.43	2.71	190.0	132	1.57	2.97	190.0
	134	1.05	3.79	360.0	135	0.82	1.55	190.0	137	1.58	3.00	190.0
	138	1.60	3.03	190.0	141	1.26	2.40	190.0	144	1.36	2.59	190.0
	145	0.63	2.77	440.0	146	1.03	3.72	360.0	147	1.10	3.97	360.0
	165	0.59	2.11	360.0	204	1.00	3.60	360.0	205	2.61	2.99	114.5
	207	1.24	3.04	245.5	212	0.63	2.28	360.0	215	1.21	3.92	325.5
	223	0.53	1.91	360.0	231	1.14	2.79	245.5	237	1.06	3.81	360.0
	244	0.06	0.05	80.0	245	0.26	0.32	120.0	246	0.34	0.41	120.0
	247	0.27	0.32	120.0	248	0.21	0.25	120.0	249	0.01	0.01	80.0
	254	1.03	3.72	360.0	267	0.40	1.75	440.0	275	1.08	3.53	325.5
	284	1.62	5.27	325.5	296	0.12	0.10	80.0	304	0.78	2.82	360.0
	310	0.35	0.41	120.0	311	0.77	0.92	120.0	312	0.78	0.94	120.0
	313	0.33	0.40	120.0	314	0.72	0.87	120.0	315	0.74	0.89	120.0
	316	0.13	0.15	120.0	317	0.30	0.37	120.0	318	0.35	0.43	120.0
	319	0.27	0.33	120.0	320	0.23	0.28	120.0	321	0.03	0.01	40.0
	322	0.44	0.52	120.0	323	0.55	0.66	120.0	324	0.96	1.16	120.0
	325	0.42	0.50	120.0	326	0.51	0.62	120.0	327	0.94	1.12	120.0
	328	0.14	0.17	120.0	329	0.33	0.40	120.0	330	0.36	0.44	120.0
	331	0.28	0.33	120.0	332	0.25	0.31	120.0	333	0.12	0.10	80.0
	334	0.36	0.43	120.0	335	0.34	0.40	120.0	336	0.23	0.27	120.0
	337	0.13	0.16	120.0	338	0.16	0.20	120.0	348	1.38	6.09	440.0
	350	0.54	2.37	440.0	356	0.22	0.72	325.5	363	0.60	1.97	325.5
	364	0.79	2.58	325.5	369	0.56	1.83	325.5	375	0.35	0.28	80.0

	376	0.94	1.08	114.5	379	1.63	5.86	360.0	381	0.64	1.57	245.5
	382	0.79	2.83	360.0	383	0.49	1.77	360.0	384	0.49	1.76	360.0
	385	1.44	3.54	245.5	386	0.59	2.11	360.0	390	1.02	3.32	325.5
	392	0.87	1.00	114.5	393	0.88	3.18	360.0	396	0.12	0.09	80.0
	397	0.52	0.63	120.0	398	0.82	0.94	114.5	399	2.02	2.31	114.5
	403	0.94	1.07	114.5	407	0.57	2.05	360.0	408	0.96	3.46	360.0
	421	0.75	0.86	114.5	422	0.94	4.46	474.5	423	0.69	0.79	114.5
	424	0.87	4.12	474.5	425	0.93	3.34	360.0	429	1.18	4.24	360.0
	433	0.74	3.26	440.0	434	1.24	4.48	360.0	435	1.16	4.19	360.0
	436	0.89	3.94	440.0	437	1.41	5.07	360.0	438	1.14	4.11	360.0
	439	0.87	3.82	440.0	440	1.36	4.90	360.0	441	1.11	4.01	360.0
	442	0.17	0.14	80.0	443	1.12	4.03	360.0				
80	1	0.22	0.26	120.0	98	1.03	3.70	360.0	99	1.69	6.10	360.0
	100	1.70	6.12	360.0	101	0.16	0.13	80.0	102	0.76	0.91	120.0
	103	0.21	0.17	80.0	104	0.93	1.12	120.0	105	0.90	1.07	120.0
	106	0.68	3.01	440.0	107	1.27	4.57	360.0	108	1.45	5.23	360.0
	109	0.79	3.46	440.0	110	1.49	5.38	360.0	111	1.77	6.38	360.0
	112	1.01	4.45	440.0	113	1.64	5.90	360.0	114	1.60	5.76	360.0
	115	1.16	3.78	325.5	116	1.97	9.34	474.5	117	1.75	8.31	474.5
	118	0.97	3.16	325.5	119	4.06	9.97	245.5	120	1.26	4.53	360.0
	121	0.20	0.16	80.0	122	3.26	7.99	245.5	123	1.50	5.39	360.0
	124	0.26	0.21	80.0	125	1.71	6.16	360.0	126	1.97	7.07	360.0
	127	2.99	5.69	190.0	129	2.31	4.39	190.0	132	2.90	5.50	190.0
	134	1.68	6.06	360.0	135	1.81	3.44	190.0	137	2.69	5.12	190.0
	138	2.69	5.12	190.0	141	2.25	4.27	190.0	144	2.13	4.05	190.0
	145	1.09	4.78	440.0	146	1.82	6.54	360.0	147	1.82	6.56	360.0
	165	1.69	6.08	360.0	204	1.62	5.82	360.0	205	1.52	1.74	114.5
	207	2.23	5.47	245.5	212	2.69	9.69	360.0	215	0.65	2.11	325.5
	223	3.31	11.90	360.0	231	2.04	5.01	245.5	237	1.79	6.46	360.0
	244	0.04	0.03	80.0	245	0.32	0.39	120.0	246	0.41	0.49	120.0
	247	0.59	0.71	120.0	248	0.45	0.54	120.0	249	0.02	0.02	80.0
	254	1.80	6.49	360.0	267	0.99	4.33	440.0	275	1.03	3.35	325.5
	284	0.81	2.63	325.5	296	0.25	0.20	80.0	304	1.42	5.10	360.0
	310	0.58	0.69	120.0	311	1.29	1.55	120.0	312	1.33	1.59	120.0
	313	0.59	0.71	120.0	314	1.31	1.57	120.0	315	1.37	1.65	120.0
	316	0.07	0.09	120.0	317	0.37	0.44	120.0	318	0.43	0.51	120.0
	319	0.61	0.73	120.0	320	0.51	0.62	120.0	321	0.04	0.02	40.0
	322	0.74	0.88	120.0	323	0.88	1.05	120.0	324	1.63	1.96	120.0
	325	0.75	0.90	120.0	326	0.96	1.16	120.0	327	1.69	2.03	120.0
	328	0.26	0.31	120.0	329	0.40	0.48	120.0	330	0.43	0.52	120.0
	331	0.62	0.74	120.0	332	0.56	0.68	120.0	333	0.26	0.21	80.0
	334	0.56	0.68	120.0	335	0.63	0.75	120.0	336	0.28	0.33	120.0
	337	0.30	0.36	120.0	338	0.37	0.44	120.0	348	1.66	7.29	440.0
	350	0.90	3.95	440.0	356	0.18	0.57	325.5	363	0.73	2.39	325.5
	364	1.37	4.45	325.5	369	1.17	3.80	325.5	375	0.19	0.15	80.0
	376	2.09	2.39	114.5	379	2.74	9.86	360.0	381	1.40	3.45	245.5
	382	1.36	4.91	360.0	383	0.89	3.21	360.0	384	0.64	2.32	360.0
	385	1.03	2.54	245.5	386	1.05	3.79	360.0	390	1.35	4.39	325.5
	392	1.75	2.00	114.5	393	1.91	6.87	360.0	396	0.21	0.17	80.0
	397	0.85	1.02	120.0	398	1.32	1.52	114.5	399	1.35	1.55	114.5
	403	1.61	1.85	114.5	407	1.72	6.18	360.0	408	1.65	5.93	360.0
	421	1.76	2.02	114.5	422	1.91	9.08	474.5	423	1.64	1.87	114.5
	424	1.74	8.26	474.5	425	1.47	5.30	360.0	429	1.94	7.00	360.0
	433	1.21	5.31	440.0	434	2.04	7.33	360.0	435	1.95	7.02	360.0
	436	1.49	6.54	440.0	437	2.31	8.33	360.0	438	1.91	6.89	360.0
	439	1.48	6.50	440.0	440	2.28	8.19	360.0	441	1.88	6.76	360.0
	442	0.30	0.24	80.0	443	1.93	6.94	360.0				
81	1	0.20	0.24	120.0	98	0.99	3.55	360.0	99	1.45	5.22	360.0
	100	1.57	5.66	360.0	101	0.17	0.13	80.0	102	0.71	0.85	120.0
	103	0.20	0.16	80.0	104	0.87	1.04	120.0	105	0.80	0.96	120.0
	106	0.64	2.82	440.0	107	1.17	4.20	360.0	108	1.33	4.78	360.0
	109	0.74	3.27	440.0	110	1.35	4.88	360.0	111	1.66	5.98	360.0
	112	0.97	4.28	440.0	113	1.51	5.44	360.0	114	1.50	5.38	360.0
	115	1.21	3.93	325.5	116	1.99	9.44	474.5	117	1.79	8.49	474.5
	118	1.01	3.29	325.5	119	4.01	9.85	245.5	120	1.18	4.24	360.0
	121	0.20	0.16	80.0	122	3.20	7.85	245.5	123	1.41	5.06	360.0
	124	0.27	0.22	80.0	125	1.57	5.66	360.0	126	1.87	6.75	360.0
	127	2.80	5.32	190.0	129	2.23	4.23	190.0	132	2.84	5.39	190.0
	134	1.84	6.62	360.0	135	1.79	3.40	190.0	137	2.77	5.27	190.0
	138	2.65	5.04	190.0	141	2.14	4.06	190.0	144	2.13	4.04	190.0
	145	1.05	4.64	440.0	146	1.71	6.15	360.0	147	1.74	6.26	360.0
	165	1.23	4.42	360.0	204	1.55	5.57	360.0	205	1.36	1.55	114.5
	207	2.20	5.39	245.5	212	2.49	8.95	360.0	215	0.63	2.06	325.5
	223	3.15	11.33	360.0	231	2.00	4.92	245.5	237	1.71	6.15	360.0
	244	0.03	0.02	80.0	245	0.31	0.37	120.0	246	0.40	0.48	120.0
	247	0.50	0.61	120.0	248	0.39	0.47	120.0	249	0.02	0.02	80.0
	254	1.68	6.05	360.0	267	0.94	4.15	440.0	275	1.02	3.34	325.5

	284	0.79	2.57	325.5	296	0.22	0.18	80.0	304	1.34	4.81	360.0
	310	0.55	0.66	120.0	311	1.23	1.47	120.0	312	1.23	1.48	120.0
	313	0.56	0.67	120.0	314	1.22	1.46	120.0	315	1.25	1.50	120.0
	316	0.06	0.08	120.0	317	0.36	0.43	120.0	318	0.41	0.50	120.0
	319	0.52	0.62	120.0	320	0.44	0.53	120.0	321	0.04	0.02	40.0
	322	0.71	0.85	120.0	323	0.83	0.99	120.0	324	1.53	1.84	120.0
	325	0.71	0.85	120.0	326	0.88	1.06	120.0	327	1.56	1.88	120.0
	328	0.24	0.29	120.0	329	0.39	0.47	120.0	330	0.42	0.50	120.0
	331	0.52	0.63	120.0	332	0.48	0.58	120.0	333	0.23	0.18	80.0
	334	0.54	0.65	120.0	335	0.58	0.70	120.0	336	0.27	0.32	120.0
	337	0.26	0.31	120.0	338	0.31	0.37	120.0	348	1.61	7.07	440.0
	350	0.87	3.81	440.0	356	0.18	0.58	325.5	363	0.84	2.74	325.5
	364	1.40	4.57	325.5	369	1.14	3.71	325.5	375	0.19	0.15	80.0
	376	1.94	2.22	114.5	379	2.39	8.59	360.0	381	1.35	3.32	245.5
	382	1.32	4.76	360.0	383	0.85	3.07	360.0	384	0.62	2.23	360.0
	385	0.97	2.39	245.5	386	1.00	3.61	360.0	390	1.18	3.85	325.5
	392	1.70	1.94	114.5	393	1.72	6.18	360.0	396	0.20	0.16	80.0
	397	0.81	0.97	120.0	398	1.09	1.25	114.5	399	1.30	1.49	114.5
	403	1.42	1.62	114.5	407	1.04	3.75	360.0	408	1.54	5.53	360.0
	421	1.47	1.69	114.5	422	2.03	9.62	474.5	423	1.34	1.53	114.5
	424	1.88	8.93	474.5	425	2.02	7.26	360.0	429	1.86	6.70	360.0
	433	1.17	5.15	440.0	434	1.95	7.02	360.0	435	1.85	6.65	360.0
	436	1.45	6.39	440.0	437	2.24	8.05	360.0	438	1.80	6.48	360.0
	439	1.44	6.35	440.0	440	2.20	7.91	360.0	441	1.76	6.34	360.0
	442	0.30	0.24	80.0	443	1.84	6.64	360.0				
82	1	0.14	0.17	120.0	98	0.77	2.79	360.0	99	0.78	2.82	360.0
	100	1.05	3.79	360.0	101	0.11	0.09	80.0	102	0.51	0.61	120.0
	103	0.13	0.10	80.0	104	0.57	0.69	120.0	105	0.55	0.66	120.0
	106	0.40	1.74	440.0	107	0.75	2.71	360.0	108	0.88	3.18	360.0
	109	0.43	1.89	440.0	110	0.84	3.03	360.0	111	1.01	3.64	360.0
	112	0.57	2.50	440.0	113	0.97	3.50	360.0	114	0.92	3.33	360.0
	115	1.11	3.61	325.5	116	1.09	5.16	474.5	117	0.93	4.40	474.5
	118	1.65	5.37	325.5	119	0.72	1.76	245.5	120	0.76	2.75	360.0
	121	0.40	0.32	80.0	122	0.58	1.41	245.5	123	0.95	3.43	360.0
	124	0.15	0.12	80.0	125	1.05	3.78	360.0	126	1.20	4.32	360.0
	127	1.82	3.46	190.0	129	1.49	2.83	190.0	132	1.62	3.07	190.0
	134	0.93	3.35	360.0	135	0.84	1.60	190.0	137	1.50	2.85	190.0
	138	1.64	3.12	190.0	141	1.37	2.61	190.0	144	1.37	2.60	190.0
	145	0.66	2.92	440.0	146	1.15	4.13	360.0	147	1.18	4.25	360.0
	165	0.95	3.41	360.0	204	1.07	3.84	360.0	205	2.68	3.07	114.5
	207	1.26	3.08	245.5	212	0.78	2.81	360.0	215	1.19	3.89	325.5
	223	0.75	2.71	360.0	231	1.16	2.84	245.5	237	1.14	4.09	360.0
	244	0.07	0.06	80.0	245	0.25	0.30	120.0	246	0.31	0.37	120.0
	247	0.35	0.41	120.0	248	0.26	0.32	120.0	249	0.01	9.87e-03	80.0
	254	1.16	4.16	360.0	267	0.44	1.93	440.0	275	1.09	3.54	325.5
	284	1.64	5.33	325.5	296	0.15	0.12	80.0	304	0.86	3.11	360.0
	310	0.36	0.43	120.0	311	0.82	0.99	120.0	312	0.86	1.03	120.0
	313	0.36	0.43	120.0	314	0.81	0.97	120.0	315	0.86	1.03	120.0
	316	0.13	0.16	120.0	317	0.28	0.34	120.0	318	0.32	0.38	120.0
	319	0.36	0.43	120.0	320	0.30	0.36	120.0	321	0.02	9.87e-03	40.0
	322	0.46	0.55	120.0	323	0.58	0.69	120.0	324	1.05	1.26	120.0
	325	0.45	0.54	120.0	326	0.59	0.71	120.0	327	1.06	1.28	120.0
	328	0.12	0.15	120.0	329	0.30	0.36	120.0	330	0.32	0.39	120.0
	331	0.36	0.44	120.0	332	0.33	0.40	120.0	333	0.15	0.12	80.0
	334	0.37	0.44	120.0	335	0.38	0.45	120.0	336	0.21	0.26	120.0
	337	0.18	0.21	120.0	338	0.21	0.26	120.0	348	1.43	6.30	440.0
	350	0.57	2.51	440.0	356	0.22	0.71	325.5	363	0.50	1.63	325.5
	364	0.74	2.42	325.5	369	0.59	1.91	325.5	375	0.35	0.28	80.0
	376	1.12	1.28	114.5	379	2.04	7.34	360.0	381	0.69	1.70	245.5
	382	0.83	2.98	360.0	383	0.53	1.92	360.0	384	0.49	1.78	360.0
	385	1.47	3.62	245.5	386	0.63	2.27	360.0	390	1.21	3.94	325.5
	392	0.92	1.05	114.5	393	1.10	3.96	360.0	396	0.13	0.10	80.0
	397	0.55	0.66	120.0	398	0.99	1.14	114.5	399	2.06	2.36	114.5
	403	1.10	1.26	114.5	407	1.28	4.62	360.0	408	1.07	3.86	360.0
	421	1.07	1.22	114.5	422	0.84	3.97	474.5	423	1.02	1.17	114.5
	424	0.73	3.48	474.5	425	0.73	2.63	360.0	429	1.26	4.53	360.0
	433	0.78	3.42	440.0	434	1.33	4.78	360.0	435	1.26	4.55	360.0
	436	0.93	4.09	440.0	437	1.49	5.35	360.0	438	1.25	4.52	360.0
	439	0.90	3.96	440.0	440	1.44	5.18	360.0	441	1.23	4.43	360.0
	442	0.17	0.14	80.0	443	1.20	4.33	360.0				
83	1	0.07	0.09	120.0	98	0.67	2.41	360.0	99	0.38	1.36	360.0
	100	0.76	2.73	360.0	101	0.17	0.14	80.0	102	0.39	0.47	120.0
	103	0.07	0.06	80.0	104	0.32	0.38	120.0	105	0.34	0.40	120.0
	106	0.24	1.07	440.0	107	0.46	1.65	360.0	108	0.53	1.89	360.0
	109	0.32	1.41	440.0	110	0.61	2.21	360.0	111	0.70	2.53	360.0
	112	0.47	2.09	440.0	113	0.67	2.40	360.0	114	0.62	2.25	360.0
	115	0.64	2.08	325.5	116	0.80	3.81	474.5	117	0.93	4.40	474.5

	118	1.89	6.14	325.5	119	0.96	2.36	245.5	120	0.85	3.07	360.0
	121	0.39	0.31	80.0	122	0.68	1.68	245.5	123	0.59	2.14	360.0
	124	0.09	0.07	80.0	125	0.67	2.41	360.0	126	0.75	2.71	360.0
	127	1.25	2.38	190.0	129	0.92	1.74	190.0	132	1.36	2.59	190.0
	134	0.62	2.22	360.0	135	1.12	2.13	190.0	137	1.26	2.40	190.0
	138	1.12	2.12	190.0	141	1.01	1.93	190.0	144	0.65	1.23	190.0
	145	0.61	2.69	440.0	146	0.87	3.13	360.0	147	0.65	2.34	360.0
	165	0.82	2.96	360.0	204	0.47	1.70	360.0	205	2.89	3.31	114.5
	207	1.32	3.24	245.5	212	0.58	2.10	360.0	215	1.19	3.86	325.5
	223	0.77	2.79	360.0	231	1.03	2.54	245.5	237	0.56	2.02	360.0
	244	0.06	0.05	80.0	245	0.27	0.33	120.0	246	0.34	0.41	120.0
	247	0.27	0.32	120.0	248	0.21	0.25	120.0	249	6.92e-03	5.54e-03	80.0
	254	0.77	2.79	360.0	267	0.44	1.92	440.0	275	0.60	1.94	325.5
	284	1.87	6.10	325.5	296	0.13	0.10	80.0	304	0.66	2.38	360.0
	310	0.22	0.26	120.0	311	0.48	0.58	120.0	312	0.51	0.62	120.0
	313	0.19	0.22	120.0	314	0.43	0.51	120.0	315	0.47	0.56	120.0
	316	0.14	0.17	120.0	317	0.31	0.37	120.0	318	0.35	0.42	120.0
	319	0.28	0.34	120.0	320	0.24	0.29	120.0	321	0.01	5.54e-03	40.0
	322	0.28	0.34	120.0	323	0.40	0.48	120.0	324	0.61	0.73	120.0
	325	0.25	0.30	120.0	326	0.35	0.41	120.0	327	0.57	0.68	120.0
	328	0.17	0.21	120.0	329	0.33	0.40	120.0	330	0.36	0.44	120.0
	331	0.29	0.34	120.0	332	0.26	0.31	120.0	333	0.12	0.09	80.0
	334	0.27	0.33	120.0	335	0.23	0.27	120.0	336	0.24	0.28	120.0
	337	0.15	0.17	120.0	338	0.17	0.21	120.0	348	0.36	1.57	440.0
	350	0.42	1.85	440.0	356	0.88	2.86	325.5	363	0.90	2.92	325.5
	364	0.96	3.11	325.5	369	0.94	3.06	325.5	375	0.35	0.28	80.0
	376	1.57	1.80	114.5	379	1.35	4.88	360.0	381	0.78	1.92	245.5
	382	0.55	1.98	360.0	383	0.45	1.62	360.0	384	0.47	1.67	360.0
	385	1.47	3.61	245.5	386	0.41	1.48	360.0	390	0.64	2.09	325.5
	392	1.09	1.25	114.5	393	1.02	3.66	360.0	396	0.08	0.06	80.0
	397	0.36	0.43	120.0	398	0.46	0.53	114.5	399	1.91	2.19	114.5
	403	0.55	0.63	114.5	407	0.88	3.17	360.0	408	0.72	2.60	360.0
	421	0.82	0.94	114.5	422	0.98	4.66	474.5	423	0.73	0.83	114.5
	424	0.90	4.25	474.5	425	0.96	3.46	360.0	429	0.81	2.93	360.0
	433	0.50	2.21	440.0	434	0.81	2.92	360.0	435	0.81	2.92	360.0
	436	0.59	2.60	440.0	437	0.89	3.19	360.0	438	0.79	2.83	360.0
	439	0.58	2.56	440.0	440	0.87	3.15	360.0	441	0.78	2.81	360.0
	442	0.20	0.16	80.0	443	0.78	2.80	360.0				
84	1	0.16	0.19	120.0	98	0.89	3.21	360.0	99	1.29	4.64	360.0
	100	1.45	5.22	360.0	101	0.09	0.07	80.0	102	0.63	0.76	120.0
	103	0.17	0.14	80.0	104	0.75	0.90	120.0	105	0.73	0.87	120.0
	106	0.56	2.45	440.0	107	1.02	3.68	360.0	108	1.16	4.19	360.0
	109	0.66	2.92	440.0	110	1.24	4.47	360.0	111	1.47	5.28	360.0
	112	0.97	4.26	440.0	113	1.38	4.95	360.0	114	1.25	4.49	360.0
	115	0.63	2.04	325.5	116	1.56	7.38	474.5	117	1.64	7.77	474.5
	118	1.09	3.56	325.5	119	4.06	9.96	245.5	120	1.41	5.08	360.0
	121	0.26	0.21	80.0	122	2.97	7.28	245.5	123	1.11	4.01	360.0
	124	0.20	0.16	80.0	125	1.32	4.74	360.0	126	1.52	5.46	360.0
	127	2.42	4.59	190.0	129	1.80	3.42	190.0	132	2.57	4.88	190.0
	134	1.42	5.11	360.0	135	1.87	3.56	190.0	137	2.36	4.48	190.0
	138	2.12	4.03	190.0	141	1.84	3.50	190.0	144	1.46	2.77	190.0
	145	1.03	4.52	440.0	146	1.56	5.60	360.0	147	1.34	4.82	360.0
	165	1.41	5.09	360.0	204	1.05	3.79	360.0	205	1.58	1.81	114.5
	207	2.17	5.33	245.5	212	2.34	8.41	360.0	215	0.67	2.19	325.5
	223	3.31	11.92	360.0	231	1.80	4.43	245.5	237	1.26	4.53	360.0
	244	0.04	0.03	80.0	245	0.31	0.38	120.0	246	0.39	0.47	120.0
	247	0.51	0.61	120.0	248	0.39	0.47	120.0	249	0.02	0.01	80.0
	254	1.49	5.37	360.0	267	0.82	3.60	440.0	275	0.42	1.36	325.5
	284	0.99	3.22	325.5	296	0.23	0.18	80.0	304	1.25	4.48	360.0
	310	0.47	0.56	120.0	311	1.03	1.23	120.0	312	1.05	1.26	120.0
	313	0.48	0.57	120.0	314	1.04	1.24	120.0	315	1.08	1.30	120.0
	316	0.09	0.11	120.0	317	0.35	0.42	120.0	318	0.41	0.49	120.0
	319	0.53	0.63	120.0	320	0.45	0.54	120.0	321	0.03	0.01	40.0
	322	0.60	0.72	120.0	323	0.71	0.86	120.0	324	1.27	1.53	120.0
	325	0.61	0.73	120.0	326	0.78	0.93	120.0	327	1.32	1.58	120.0
	328	0.28	0.34	120.0	329	0.38	0.46	120.0	330	0.41	0.50	120.0
	331	0.53	0.64	120.0	332	0.49	0.58	120.0	333	0.22	0.18	80.0
	334	0.47	0.57	120.0	335	0.51	0.62	120.0	336	0.27	0.33	120.0
	337	0.27	0.32	120.0	338	0.32	0.39	120.0	348	0.68	3.01	440.0
	350	0.74	3.27	440.0	356	0.87	2.83	325.5	363	0.98	3.20	325.5
	364	1.49	4.86	325.5	369	1.42	4.62	325.5	375	0.21	0.17	80.0
	376	2.40	2.74	114.5	379	2.17	7.83	360.0	381	1.38	3.40	245.5
	382	1.16	4.19	360.0	383	0.82	2.94	360.0	384	0.61	2.19	360.0
	385	0.93	2.29	245.5	386	0.81	2.91	360.0	390	0.96	3.12	325.5
	392	1.77	2.03	114.5	393	1.72	6.21	360.0	396	0.18	0.14	80.0
	397	0.69	0.83	120.0	398	0.82	0.93	114.5	399	1.13	1.29	114.5
	403	1.10	1.26	114.5	407	1.31	4.73	360.0	408	1.32	4.77	360.0

	421	1.47	1.68	114.5	422	1.80	8.54	474.5	423	1.32	1.51	114.5
	424	1.63	7.74	474.5	425	1.79	6.44	360.0	429	1.54	5.53	360.0
	433	0.96	4.24	440.0	434	1.60	5.77	360.0	435	1.58	5.67	360.0
	436	1.20	5.27	440.0	437	1.84	6.61	360.0	438	1.55	5.59	360.0
	439	1.22	5.35	440.0	440	1.84	6.62	360.0	441	1.53	5.50	360.0
	442	0.24	0.19	80.0	443	1.60	5.75	360.0				
85	1	0.15	0.18	120.0	98	0.81	2.93	360.0	99	1.16	4.19	360.0
	100	1.32	4.76	360.0	101	0.08	0.07	80.0	102	0.55	0.66	120.0
	103	0.16	0.13	80.0	104	0.68	0.81	120.0	105	0.62	0.75	120.0
	106	0.51	2.26	440.0	107	0.92	3.30	360.0	108	1.04	3.73	360.0
	109	0.62	2.72	440.0	110	1.10	3.96	360.0	111	1.36	4.88	360.0
	112	0.93	4.10	440.0	113	1.25	4.48	360.0	114	1.15	4.14	360.0
	115	0.70	2.29	325.5	116	1.60	7.57	474.5	117	1.70	8.07	474.5
	118	1.15	3.75	325.5	119	3.93	9.64	245.5	120	1.38	4.98	360.0
	121	0.25	0.20	80.0	122	2.83	6.94	245.5	123	1.03	3.70	360.0
	124	0.20	0.16	80.0	125	1.17	4.23	360.0	126	1.42	5.13	360.0
	127	2.22	4.23	190.0	129	1.69	3.21	190.0	132	2.50	4.74	190.0
	134	1.60	5.76	360.0	135	1.87	3.55	190.0	137	2.43	4.63	190.0
	138	2.08	3.96	190.0	141	1.74	3.31	190.0	144	1.47	2.79	190.0
	145	0.99	4.38	440.0	146	1.45	5.22	360.0	147	1.25	4.51	360.0
	165	0.94	3.39	360.0	204	1.00	3.61	360.0	205	1.52	1.74	114.5
	207	2.12	5.22	245.5	212	2.19	7.88	360.0	215	0.64	2.08	325.5
	223	3.13	11.28	360.0	231	1.75	4.30	245.5	237	1.17	4.21	360.0
	244	0.05	0.04	80.0	245	0.26	0.32	120.0	246	0.32	0.39	120.0
	247	0.42	0.50	120.0	248	0.33	0.39	120.0	249	0.02	0.01	80.0
	254	1.37	4.93	360.0	267	0.78	3.42	440.0	275	0.41	1.35	325.5
	284	1.01	3.28	325.5	296	0.20	0.16	80.0	304	1.16	4.19	360.0
	310	0.44	0.53	120.0	311	0.95	1.14	120.0	312	0.93	1.12	120.0
	313	0.45	0.54	120.0	314	0.95	1.14	120.0	315	0.96	1.15	120.0
	316	0.08	0.10	120.0	317	0.30	0.36	120.0	318	0.34	0.40	120.0
	319	0.43	0.52	120.0	320	0.37	0.44	120.0	321	0.04	0.01	40.0
	322	0.57	0.68	120.0	323	0.64	0.77	120.0	324	1.15	1.38	120.0
	325	0.57	0.68	120.0	326	0.69	0.83	120.0	327	1.18	1.42	120.0
	328	0.21	0.25	120.0	329	0.32	0.38	120.0	330	0.34	0.41	120.0
	331	0.43	0.52	120.0	332	0.40	0.48	120.0	333	0.19	0.15	80.0
	334	0.44	0.52	120.0	335	0.47	0.56	120.0	336	0.23	0.27	120.0
	337	0.22	0.26	120.0	338	0.26	0.32	120.0	348	0.64	2.81	440.0
	350	0.71	3.13	440.0	356	0.87	2.82	325.5	363	1.04	3.38	325.5
	364	1.50	4.90	325.5	369	1.39	4.53	325.5	375	0.21	0.17	80.0
	376	2.28	2.61	114.5	379	2.03	7.32	360.0	381	1.33	3.27	245.5
	382	1.12	4.03	360.0	383	0.78	2.80	360.0	384	0.57	2.06	360.0
	385	0.92	2.26	245.5	386	0.76	2.72	360.0	390	0.93	3.02	325.5
	392	1.71	1.96	114.5	393	1.56	5.63	360.0	396	0.17	0.13	80.0
	397	0.63	0.76	120.0	398	0.49	0.56	114.5	399	1.15	1.31	114.5
	403	0.86	0.98	114.5	407	0.91	3.27	360.0	408	1.22	4.38	360.0
	421	1.21	1.39	114.5	422	1.93	9.15	474.5	423	1.04	1.20	114.5
	424	1.80	8.53	474.5	425	2.45	8.82	360.0	429	1.44	5.20	360.0
	433	0.93	4.08	440.0	434	1.52	5.45	360.0	435	1.47	5.29	360.0
	436	1.16	5.11	440.0	437	1.76	6.32	360.0	438	1.44	5.17	360.0
	439	1.18	5.20	440.0	440	1.76	6.32	360.0	441	1.41	5.06	360.0
	442	0.23	0.19	80.0	443	1.51	5.45	360.0				
86	1	0.06	0.07	120.0	98	0.59	2.13	360.0	99	0.29	1.03	360.0
	100	0.64	2.29	360.0	101	0.16	0.13	80.0	102	0.29	0.35	120.0
	103	0.06	0.05	80.0	104	0.24	0.29	120.0	105	0.22	0.27	120.0
	106	0.20	0.87	440.0	107	0.35	1.26	360.0	108	0.40	1.43	360.0
	109	0.28	1.21	440.0	110	0.47	1.68	360.0	111	0.60	2.16	360.0
	112	0.44	1.91	440.0	113	0.53	1.90	360.0	114	0.54	1.93	360.0
	115	0.68	2.23	325.5	116	0.85	4.04	474.5	117	1.00	4.72	474.5
	118	1.92	6.25	325.5	119	1.05	2.58	245.5	120	0.84	3.03	360.0
	121	0.39	0.31	80.0	122	0.75	1.85	245.5	123	0.52	1.87	360.0
	124	0.10	0.08	80.0	125	0.53	1.90	360.0	126	0.66	2.36	360.0
	127	1.06	2.02	190.0	129	0.79	1.50	190.0	132	1.28	2.43	190.0
	134	0.84	3.01	360.0	135	1.11	2.11	190.0	137	1.33	2.53	190.0
	138	1.09	2.06	190.0	141	0.92	1.74	190.0	144	0.68	1.30	190.0
	145	0.58	2.55	440.0	146	0.77	2.78	360.0	147	0.56	2.02	360.0
	165	0.31	1.11	360.0	204	0.45	1.63	360.0	205	2.90	3.32	114.5
	207	1.26	3.10	245.5	212	0.35	1.27	360.0	215	1.19	3.86	325.5
	223	0.41	1.48	360.0	231	0.97	2.38	245.5	237	0.47	1.71	360.0
	244	0.08	0.06	80.0	245	0.21	0.26	120.0	246	0.25	0.30	120.0
	247	0.17	0.21	120.0	248	0.14	0.17	120.0	249	7.88e-03	6.30e-03	80.0
	254	0.65	2.35	360.0	267	0.40	1.74	440.0	275	0.60	1.96	325.5
	284	1.89	6.16	325.5	296	0.10	0.08	80.0	304	0.58	2.10	360.0
	310	0.19	0.23	120.0	311	0.38	0.46	120.0	312	0.38	0.46	120.0
	313	0.16	0.19	120.0	314	0.33	0.40	120.0	315	0.33	0.40	120.0
	316	0.14	0.16	120.0	317	0.24	0.28	120.0	318	0.26	0.31	120.0
	319	0.18	0.22	120.0	320	0.16	0.19	120.0	321	0.02	6.30e-03	40.0
	322	0.24	0.29	120.0	323	0.31	0.38	120.0	324	0.47	0.56	120.0

	325	0.20	0.24	120.0	326	0.25	0.30	120.0	327	0.42	0.51	120.0
	328	0.15	0.18	120.0	329	0.25	0.30	120.0	330	0.26	0.32	120.0
	331	0.18	0.21	120.0	332	0.17	0.20	120.0	333	0.08	0.07	80.0
	334	0.23	0.27	120.0	335	0.17	0.21	120.0	336	0.18	0.22	120.0
	337	0.10	0.12	120.0	338	0.11	0.13	120.0	348	0.34	1.48	440.0
	350	0.39	1.71	440.0	356	0.88	2.86	325.5	363	0.92	3.01	325.5
	364	0.96	3.11	325.5	369	0.91	2.97	325.5	375	0.35	0.28	80.0
	376	1.47	1.69	114.5	379	1.30	4.68	360.0	381	0.74	1.81	245.5
	382	0.51	1.83	360.0	383	0.41	1.48	360.0	384	0.43	1.55	360.0
	385	1.48	3.64	245.5	386	0.36	1.29	360.0	390	0.70	2.27	325.5
	392	1.03	1.18	114.5	393	0.95	3.41	360.0	396	0.06	0.05	80.0
	397	0.29	0.34	120.0	398	0.13	0.15	114.5	399	1.95	2.23	114.5
	403	0.28	0.33	114.5	407	0.60	2.15	360.0	408	0.62	2.24	360.0
	421	0.60	0.69	114.5	422	0.79	3.73	474.5	423	0.49	0.56	114.5
	424	0.72	3.40	474.5	425	1.03	3.69	360.0	429	0.72	2.59	360.0
	433	0.46	2.04	440.0	434	0.72	2.60	360.0	435	0.70	2.52	360.0
	436	0.55	2.44	440.0	437	0.80	2.89	360.0	438	0.67	2.41	360.0
	439	0.55	2.41	440.0	440	0.79	2.85	360.0	441	0.66	2.38	360.0
	442	0.20	0.16	80.0	443	0.69	2.50	360.0				
87	1	0.07	0.08	120.0	98	0.69	2.49	360.0	99	0.41	1.46	360.0
	100	0.76	2.73	360.0	101	0.16	0.13	80.0	102	0.40	0.48	120.0
	103	0.08	0.06	80.0	104	0.34	0.41	120.0	105	0.36	0.43	120.0
	106	0.26	1.15	440.0	107	0.49	1.75	360.0	108	0.55	1.99	360.0
	109	0.34	1.49	440.0	110	0.64	2.30	360.0	111	0.73	2.64	360.0
	112	0.52	2.27	440.0	113	0.69	2.50	360.0	114	0.63	2.28	360.0
	115	0.44	1.44	325.5	116	0.83	3.93	474.5	117	1.04	4.96	474.5
	118	1.77	5.76	325.5	119	0.62	1.52	245.5	120	1.01	3.64	360.0
	121	0.40	0.32	80.0	122	0.62	1.52	245.5	123	0.62	2.25	360.0
	124	0.09	0.07	80.0	125	0.66	2.37	360.0	126	0.74	2.67	360.0
	127	1.22	2.33	190.0	129	0.93	1.77	190.0	132	1.41	2.67	190.0
	134	0.65	2.36	360.0	135	1.17	2.22	190.0	137	1.28	2.44	190.0
	138	1.06	2.01	190.0	141	0.97	1.84	190.0	144	0.61	1.16	190.0
	145	0.60	2.66	440.0	146	0.85	3.06	360.0	147	0.61	2.21	360.0
	165	0.84	3.03	360.0	204	0.43	1.56	360.0	205	2.72	3.12	114.5
	207	1.32	3.24	245.5	212	0.60	2.16	360.0	215	1.16	3.79	325.5
	223	0.98	3.51	360.0	231	1.03	2.53	245.5	237	0.53	1.92	360.0
	244	0.06	0.05	80.0	245	0.27	0.33	120.0	246	0.34	0.41	120.0
	247	0.28	0.33	120.0	248	0.21	0.26	120.0	249	7.35e-03	5.88e-03	80.0
	254	0.76	2.75	360.0	267	0.45	1.96	440.0	275	0.38	1.22	325.5
	284	1.75	5.71	325.5	296	0.13	0.10	80.0	304	0.66	2.39	360.0
	310	0.23	0.28	120.0	311	0.51	0.61	120.0	312	0.54	0.65	120.0
	313	0.21	0.25	120.0	314	0.46	0.56	120.0	315	0.50	0.60	120.0
	316	0.14	0.16	120.0	317	0.30	0.37	120.0	318	0.35	0.42	120.0
	319	0.29	0.35	120.0	320	0.25	0.29	120.0	321	0.01	5.88e-03	40.0
	322	0.30	0.36	120.0	323	0.42	0.50	120.0	324	0.63	0.76	120.0
	325	0.27	0.33	120.0	326	0.37	0.44	120.0	327	0.59	0.71	120.0
	328	0.17	0.20	120.0	329	0.33	0.40	120.0	330	0.36	0.43	120.0
	331	0.29	0.35	120.0	332	0.27	0.32	120.0	333	0.12	0.10	80.0
	334	0.28	0.34	120.0	335	0.25	0.29	120.0	336	0.24	0.28	120.0
	337	0.15	0.18	120.0	338	0.18	0.22	120.0	348	0.40	1.76	440.0
	350	0.40	1.76	440.0	356	0.88	2.86	325.5	363	0.89	2.90	325.5
	364	0.96	3.13	325.5	369	0.95	3.09	325.5	375	0.35	0.28	80.0
	376	1.58	1.81	114.5	379	1.36	4.90	360.0	381	0.79	1.93	245.5
	382	0.58	2.07	360.0	383	0.45	1.62	360.0	384	0.48	1.71	360.0
	385	1.42	3.48	245.5	386	0.40	1.44	360.0	390	0.70	2.27	325.5
	392	1.10	1.26	114.5	393	1.05	3.80	360.0	396	0.08	0.07	80.0
	397	0.37	0.45	120.0	398	0.48	0.55	114.5	399	1.86	2.13	114.5
	403	0.53	0.61	114.5	407	0.58	2.09	360.0	408	0.69	2.48	360.0
	421	0.82	0.93	114.5	422	0.93	4.44	474.5	423	0.72	0.82	114.5
	424	0.84	3.98	474.5	425	1.06	3.83	360.0	429	0.78	2.79	360.0
	433	0.48	2.12	440.0	434	0.78	2.82	360.0	435	0.79	2.85	360.0
	436	0.58	2.56	440.0	437	0.88	3.15	360.0	438	0.77	2.79	360.0
	439	0.59	2.60	440.0	440	0.88	3.17	360.0	441	0.77	2.76	360.0
	442	0.15	0.12	80.0	443	0.79	2.84	360.0				
88	1	0.16	0.19	120.0	98	0.86	3.10	360.0	99	1.29	4.63	360.0
	100	1.44	5.20	360.0	101	0.10	0.08	80.0	102	0.61	0.74	120.0
	103	0.17	0.13	80.0	104	0.72	0.86	120.0	105	0.71	0.85	120.0
	106	0.54	2.36	440.0	107	0.99	3.57	360.0	108	1.13	4.08	360.0
	109	0.64	2.84	440.0	110	1.21	4.37	360.0	111	1.43	5.16	360.0
	112	0.93	4.07	440.0	113	1.35	4.84	360.0	114	1.24	4.48	360.0
	115	0.50	1.63	325.5	116	1.55	7.36	474.5	117	1.56	7.40	474.5
	118	1.20	3.91	325.5	119	3.53	8.66	245.5	120	1.28	4.62	360.0
	121	0.24	0.19	80.0	122	2.81	6.90	245.5	123	1.12	4.02	360.0
	124	0.20	0.16	80.0	125	1.33	4.81	360.0	126	1.53	5.52	360.0
	127	2.44	4.63	190.0	129	1.78	3.38	190.0	132	2.53	4.80	190.0
	134	1.38	4.96	360.0	135	1.83	3.48	190.0	137	2.35	4.46	190.0
	138	2.18	4.14	190.0	141	1.88	3.58	190.0	144	1.49	2.84	190.0

	145	1.04	4.57	440.0	146	1.58	5.69	360.0	147	1.38	4.96	360.0
	165	1.39	5.00	360.0	204	1.09	3.94	360.0	205	1.74	1.99	114.5
	207	2.18	5.35	245.5	212	2.27	8.18	360.0	215	0.68	2.22	325.5
	223	3.01	10.82	360.0	231	1.82	4.46	245.5	237	1.29	4.63	360.0
	244	0.04	0.03	80.0	245	0.31	0.37	120.0	246	0.39	0.46	120.0
	247	0.50	0.60	120.0	248	0.38	0.46	120.0	249	0.02	0.01	80.0
	254	1.50	5.40	360.0	267	0.80	3.54	440.0	275	0.20	0.64	325.5
	284	1.11	3.61	325.5	296	0.22	0.18	80.0	304	1.24	4.46	360.0
	310	0.45	0.54	120.0	311	0.99	1.19	120.0	312	1.02	1.22	120.0
	313	0.45	0.54	120.0	314	1.00	1.20	120.0	315	1.05	1.26	120.0
	316	0.09	0.11	120.0	317	0.35	0.42	120.0	318	0.40	0.48	120.0
	319	0.52	0.62	120.0	320	0.44	0.52	120.0	321	0.03	0.01	40.0
	322	0.57	0.69	120.0	323	0.69	0.83	120.0	324	1.24	1.49	120.0
	325	0.58	0.70	120.0	326	0.75	0.90	120.0	327	1.29	1.54	120.0
	328	0.27	0.32	120.0	329	0.38	0.45	120.0	330	0.41	0.49	120.0
	331	0.52	0.63	120.0	332	0.48	0.57	120.0	333	0.22	0.18	80.0
	334	0.45	0.55	120.0	335	0.49	0.59	120.0	336	0.27	0.32	120.0
	337	0.26	0.31	120.0	338	0.31	0.38	120.0	348	0.81	3.58	440.0
	350	0.77	3.37	440.0	356	0.87	2.83	325.5	363	1.00	3.24	325.5
	364	1.49	4.85	325.5	369	1.41	4.58	325.5	375	0.21	0.17	80.0
	376	2.38	2.73	114.5	379	2.24	8.07	360.0	381	1.38	3.40	245.5
	382	1.14	4.09	360.0	383	0.81	2.92	360.0	384	0.59	2.11	360.0
	385	0.98	2.42	245.5	386	0.82	2.96	360.0	390	0.97	3.16	325.5
	392	1.77	2.02	114.5	393	1.75	6.31	360.0	396	0.17	0.14	80.0
	397	0.66	0.80	120.0	398	0.85	0.97	114.5	399	1.16	1.33	114.5
	403	1.13	1.30	114.5	407	1.40	5.03	360.0	408	1.36	4.90	360.0
	421	1.48	1.69	114.5	422	1.77	8.39	474.5	423	1.33	1.52	114.5
	424	1.60	7.59	474.5	425	1.69	6.07	360.0	429	1.58	5.68	360.0
	433	0.98	4.33	440.0	434	1.63	5.88	360.0	435	1.59	5.74	360.0
	436	1.20	5.30	440.0	437	1.85	6.65	360.0	438	1.56	5.62	360.0
	439	1.21	5.30	440.0	440	1.83	6.59	360.0	441	1.54	5.54	360.0
	442	0.27	0.21	80.0	443	1.58	5.70	360.0				
89	1	0.15	0.18	120.0	98	0.78	2.82	360.0	99	1.16	4.17	360.0
	100	1.32	4.74	360.0	101	0.09	0.07	80.0	102	0.53	0.63	120.0
	103	0.16	0.12	80.0	104	0.65	0.78	120.0	105	0.60	0.72	120.0
	106	0.49	2.17	440.0	107	0.89	3.19	360.0	108	1.01	3.62	360.0
	109	0.60	2.64	440.0	110	1.07	3.86	360.0	111	1.33	4.77	360.0
	112	0.89	3.91	440.0	113	1.21	4.37	360.0	114	1.14	4.12	360.0
	115	0.59	1.93	325.5	116	1.59	7.54	474.5	117	1.62	7.69	474.5
	118	1.26	4.09	325.5	119	3.40	8.34	245.5	120	1.25	4.49	360.0
	121	0.24	0.19	80.0	122	2.67	6.56	245.5	123	1.03	3.71	360.0
	124	0.21	0.17	80.0	125	1.19	4.30	360.0	126	1.44	5.19	360.0
	127	2.25	4.27	190.0	129	1.67	3.18	190.0	132	2.45	4.66	190.0
	134	1.56	5.62	360.0	135	1.82	3.46	190.0	137	2.42	4.61	190.0
	138	2.14	4.07	190.0	141	1.78	3.38	190.0	144	1.51	2.86	190.0
	145	1.01	4.42	440.0	146	1.47	5.31	360.0	147	1.29	4.65	360.0
	165	0.91	3.29	360.0	204	1.04	3.75	360.0	205	1.68	1.92	114.5
	207	2.13	5.23	245.5	212	2.12	7.62	360.0	215	0.67	2.17	325.5
	223	2.82	10.15	360.0	231	1.77	4.34	245.5	237	1.20	4.32	360.0
	244	0.05	0.04	80.0	245	0.26	0.31	120.0	246	0.32	0.38	120.0
	247	0.41	0.49	120.0	248	0.32	0.38	120.0	249	0.02	0.01	80.0
	254	1.38	4.95	360.0	267	0.76	3.36	440.0	275	0.19	0.63	325.5
	284	1.13	3.67	325.5	296	0.20	0.16	80.0	304	1.16	4.17	360.0
	310	0.42	0.51	120.0	311	0.91	1.09	120.0	312	0.90	1.08	120.0
	313	0.43	0.51	120.0	314	0.91	1.09	120.0	315	0.92	1.11	120.0
	316	0.09	0.10	120.0	317	0.29	0.35	120.0	318	0.33	0.39	120.0
	319	0.42	0.50	120.0	320	0.36	0.43	120.0	321	0.03	0.01	40.0
	322	0.54	0.65	120.0	323	0.62	0.74	120.0	324	1.12	1.34	120.0
	325	0.54	0.65	120.0	326	0.67	0.80	120.0	327	1.15	1.38	120.0
	328	0.19	0.23	120.0	329	0.31	0.37	120.0	330	0.33	0.40	120.0
	331	0.42	0.51	120.0	332	0.39	0.47	120.0	333	0.18	0.15	80.0
	334	0.42	0.50	120.0	335	0.45	0.54	120.0	336	0.22	0.27	120.0
	337	0.21	0.26	120.0	338	0.26	0.31	120.0	348	0.77	3.37	440.0
	350	0.73	3.23	440.0	356	0.87	2.82	325.5	363	1.05	3.43	325.5
	364	1.50	4.90	325.5	369	1.38	4.50	325.5	375	0.21	0.17	80.0
	376	2.27	2.60	114.5	379	2.06	7.40	360.0	381	1.33	3.27	245.5
	382	1.09	3.94	360.0	383	0.77	2.78	360.0	384	0.55	1.97	360.0
	385	0.97	2.39	245.5	386	0.77	2.77	360.0	390	0.91	2.98	325.5
	392	1.71	1.96	114.5	393	1.61	5.78	360.0	396	0.16	0.13	80.0
	397	0.60	0.73	120.0	398	0.54	0.62	114.5	399	1.19	1.36	114.5
	403	0.90	1.04	114.5	407	0.92	3.33	360.0	408	1.25	4.51	360.0
	421	1.22	1.39	114.5	422	1.90	9.00	474.5	423	1.05	1.20	114.5
	424	1.77	8.38	474.5	425	2.32	8.36	360.0	429	1.49	5.35	360.0
	433	0.95	4.17	440.0	434	1.54	5.56	360.0	435	1.49	5.36	360.0
	436	1.17	5.14	440.0	437	1.77	6.35	360.0	438	1.45	5.20	360.0
	439	1.17	5.15	440.0	440	1.75	6.29	360.0	441	1.42	5.10	360.0
	442	0.27	0.21	80.0	443	1.50	5.39	360.0				

90	1	0.06	0.07	120.0	98	0.61	2.20	360.0	99	0.32	1.15	360.0
	100	0.63	2.28	360.0	101	0.16	0.12	80.0	102	0.30	0.36	120.0
	103	0.07	0.05	80.0	104	0.27	0.32	120.0	105	0.25	0.29	120.0
	106	0.22	0.95	440.0	107	0.38	1.36	360.0	108	0.42	1.53	360.0
	109	0.29	1.29	440.0	110	0.49	1.77	360.0	111	0.63	2.26	360.0
	112	0.48	2.10	440.0	113	0.56	2.01	360.0	114	0.55	1.97	360.0
	115	0.51	1.65	325.5	116	0.88	4.18	474.5	117	1.11	5.28	474.5
	118	1.80	5.87	325.5	119	0.65	1.60	245.5	120	1.01	3.64	360.0
	121	0.40	0.32	80.0	122	0.66	1.62	245.5	123	0.56	2.01	360.0
	124	0.10	0.08	80.0	125	0.51	1.85	360.0	126	0.64	2.32	360.0
	127	1.03	1.97	190.0	129	0.80	1.53	190.0	132	1.33	2.52	190.0
	134	0.87	3.13	360.0	135	1.16	2.21	190.0	137	1.35	2.57	190.0
	138	1.03	1.95	190.0	141	0.87	1.66	190.0	144	0.65	1.23	190.0
	145	0.57	2.52	440.0	146	0.75	2.71	360.0	147	0.52	1.88	360.0
	165	0.34	1.22	360.0	204	0.42	1.50	360.0	205	2.73	3.13	114.5
	207	1.26	3.10	245.5	212	0.39	1.42	360.0	215	1.15	3.75	325.5
	223	0.68	2.47	360.0	231	0.96	2.37	245.5	237	0.44	1.60	360.0
	244	0.08	0.06	80.0	245	0.21	0.26	120.0	246	0.25	0.30	120.0
	247	0.18	0.22	120.0	248	0.15	0.18	120.0	249	8.30e-03	6.64e-03	80.0
	254	0.64	2.31	360.0	267	0.41	1.79	440.0	275	0.38	1.24	325.5
	284	1.77	5.77	325.5	296	0.10	0.08	80.0	304	0.59	2.11	360.0
	310	0.21	0.25	120.0	311	0.42	0.50	120.0	312	0.41	0.49	120.0
	313	0.18	0.22	120.0	314	0.37	0.44	120.0	315	0.36	0.44	120.0
	316	0.13	0.16	120.0	317	0.24	0.28	120.0	318	0.26	0.31	120.0
	319	0.19	0.23	120.0	320	0.16	0.20	120.0	321	0.02	6.64e-03	40.0
	322	0.26	0.31	120.0	323	0.33	0.39	120.0	324	0.49	0.59	120.0
	325	0.23	0.28	120.0	326	0.28	0.33	120.0	327	0.45	0.55	120.0
	328	0.14	0.17	120.0	329	0.25	0.30	120.0	330	0.26	0.32	120.0
	331	0.19	0.23	120.0	332	0.18	0.21	120.0	333	0.09	0.07	80.0
	334	0.24	0.29	120.0	335	0.19	0.23	120.0	336	0.18	0.22	120.0
	337	0.10	0.12	120.0	338	0.12	0.14	120.0	348	0.40	1.78	440.0
	350	0.37	1.62	440.0	356	0.88	2.86	325.5	363	0.92	2.98	325.5
	364	0.96	3.12	325.5	369	0.92	3.00	325.5	375	0.35	0.28	80.0
	376	1.49	1.71	114.5	379	1.37	4.94	360.0	381	0.74	1.82	245.5
	382	0.53	1.92	360.0	383	0.41	1.49	360.0	384	0.44	1.58	360.0
	385	1.43	3.51	245.5	386	0.35	1.25	360.0	390	0.78	2.53	325.5
	392	1.04	1.19	114.5	393	0.96	3.44	360.0	396	0.07	0.06	80.0
	397	0.30	0.36	120.0	398	0.19	0.21	114.5	399	1.90	2.17	114.5
	403	0.24	0.28	114.5	407	0.64	2.30	360.0	408	0.59	2.12	360.0
	421	0.60	0.69	114.5	422	0.52	2.46	474.5	423	0.49	0.56	114.5
	424	0.40	1.90	474.5	425	0.65	2.33	360.0	429	0.68	2.45	360.0
	433	0.44	1.95	440.0	434	0.69	2.50	360.0	435	0.68	2.45	360.0
	436	0.55	2.40	440.0	437	0.79	2.85	360.0	438	0.66	2.37	360.0
	439	0.56	2.44	440.0	440	0.79	2.86	360.0	441	0.65	2.33	360.0
	442	0.15	0.12	80.0	443	0.70	2.53	360.0				
91	1	0.07	0.09	120.0	98	0.60	2.17	360.0	99	0.43	1.54	360.0
	100	0.67	2.40	360.0	101	0.09	0.08	80.0	102	0.39	0.47	120.0
	103	0.08	0.06	80.0	104	0.36	0.43	120.0	105	0.37	0.45	120.0
	106	0.30	1.32	440.0	107	0.55	1.98	360.0	108	0.60	2.15	360.0
	109	0.40	1.74	440.0	110	0.74	2.66	360.0	111	0.83	2.98	360.0
	112	0.45	1.98	440.0	113	0.74	2.67	360.0	114	0.77	2.78	360.0
	115	0.67	2.18	325.5	116	1.04	4.94	474.5	117	1.06	5.02	474.5
	118	1.69	5.48	325.5	119	1.17	2.88	245.5	120	0.78	2.82	360.0
	121	0.37	0.29	80.0	122	0.83	2.04	245.5	123	0.71	2.55	360.0
	124	0.11	0.09	80.0	125	0.77	2.76	360.0	126	0.84	3.04	360.0
	127	1.26	2.39	190.0	129	0.94	1.78	190.0	132	1.40	2.65	190.0
	134	0.67	2.42	360.0	135	1.13	2.14	190.0	137	1.27	2.42	190.0
	138	1.09	2.07	190.0	141	0.96	1.83	190.0	144	0.71	1.35	190.0
	145	0.44	1.94	440.0	146	0.72	2.58	360.0	147	0.66	2.38	360.0
	165	1.09	3.93	360.0	204	0.56	2.03	360.0	205	2.60	2.97	114.5
	207	1.07	2.63	245.5	212	0.74	2.68	360.0	215	1.12	3.64	325.5
	223	1.01	3.63	360.0	231	1.00	2.45	245.5	237	0.71	2.54	360.0
	244	0.06	0.05	80.0	245	0.25	0.31	120.0	246	0.32	0.39	120.0
	247	0.29	0.35	120.0	248	0.22	0.27	120.0	249	8.05e-03	6.44e-03	80.0
	254	0.66	2.38	360.0	267	0.69	3.06	440.0	275	0.59	1.93	325.5
	284	1.66	5.39	325.5	296	0.10	0.08	80.0	304	0.56	2.00	360.0
	310	0.23	0.28	120.0	311	0.52	0.62	120.0	312	0.55	0.66	120.0
	313	0.21	0.26	120.0	314	0.49	0.58	120.0	315	0.52	0.63	120.0
	316	0.13	0.16	120.0	317	0.29	0.34	120.0	318	0.33	0.40	120.0
	319	0.30	0.36	120.0	320	0.26	0.31	120.0	321	0.02	6.44e-03	40.0
	322	0.30	0.36	120.0	323	0.41	0.49	120.0	324	0.65	0.78	120.0
	325	0.28	0.34	120.0	326	0.39	0.46	120.0	327	0.63	0.76	120.0
	328	0.15	0.18	120.0	329	0.31	0.38	120.0	330	0.34	0.41	120.0
	331	0.31	0.37	120.0	332	0.28	0.34	120.0	333	0.13	0.10	80.0
	334	0.27	0.33	120.0	335	0.26	0.31	120.0	336	0.22	0.26	120.0
	337	0.16	0.19	120.0	338	0.19	0.23	120.0	348	0.26	1.15	440.0
	350	0.34	1.50	440.0	356	0.59	1.91	325.5	363	0.61	2.00	325.5

	364	0.65	2.13	325.5	369	0.63	2.04	325.5	375	0.31	0.25	80.0
	376	1.13	1.29	114.5	379	1.05	3.78	360.0	381	0.65	1.60	245.5
	382	0.50	1.81	360.0	383	0.36	1.30	360.0	384	0.42	1.51	360.0
	385	1.37	3.36	245.5	386	0.48	1.74	360.0	390	0.54	1.77	325.5
	392	0.95	1.09	114.5	393	0.93	3.36	360.0	396	0.08	0.07	80.0
	397	0.37	0.44	120.0	398	0.53	0.61	114.5	399	1.79	2.06	114.5
	403	0.63	0.73	114.5	407	0.86	3.11	360.0	408	0.61	2.18	360.0
	421	0.90	1.03	114.5	422	1.13	5.38	474.5	423	0.82	0.94	114.5
	424	1.05	4.97	474.5	425	0.89	3.19	360.0	429	0.70	2.52	360.0
	433	0.42	1.86	440.0	434	0.69	2.50	360.0	435	0.69	2.47	360.0
	436	0.54	2.36	440.0	437	0.79	2.83	360.0	438	0.66	2.37	360.0
	439	0.55	2.40	440.0	440	0.79	2.85	360.0	441	0.65	2.34	360.0
	442	0.16	0.13	80.0	443	0.70	2.51	360.0				
92	1	0.16	0.20	120.0	98	0.89	3.20	360.0	99	1.27	4.59	360.0
	100	1.38	4.97	360.0	101	0.15	0.12	80.0	102	0.65	0.79	120.0
	103	0.18	0.15	80.0	104	0.79	0.95	120.0	105	0.77	0.92	120.0
	106	0.61	2.69	440.0	107	1.11	3.99	360.0	108	1.23	4.44	360.0
	109	0.73	3.23	440.0	110	1.36	4.91	360.0	111	1.59	5.71	360.0
	112	0.93	4.08	440.0	113	1.43	5.15	360.0	114	1.40	5.05	360.0
	115	0.69	2.25	325.5	116	1.80	8.54	474.5	117	1.79	8.50	474.5
	118	0.95	3.08	325.5	119	3.95	9.69	245.5	120	1.36	4.89	360.0
	121	0.25	0.20	80.0	122	2.98	7.31	245.5	123	1.24	4.48	360.0
	124	0.21	0.17	80.0	125	1.41	5.06	360.0	126	1.60	5.77	360.0
	127	2.44	4.63	190.0	129	1.85	3.52	190.0	132	2.61	4.97	190.0
	134	1.48	5.31	360.0	135	1.88	3.56	190.0	137	2.37	4.51	190.0
	138	2.10	3.99	190.0	141	1.79	3.41	190.0	144	1.57	2.98	190.0
	145	0.86	3.81	440.0	146	1.41	5.08	360.0	147	1.35	4.86	360.0
	165	1.67	6.00	360.0	204	1.17	4.22	360.0	205	1.33	1.52	114.5
	207	1.94	4.76	245.5	212	2.35	8.46	360.0	215	0.65	2.11	325.5
	223	3.24	11.66	360.0	231	1.77	4.35	245.5	237	1.39	5.00	360.0
	244	0.03	0.03	80.0	245	0.31	0.37	120.0	246	0.39	0.47	120.0
	247	0.53	0.64	120.0	248	0.41	0.49	120.0	249	0.02	0.01	80.0
	254	1.40	5.02	360.0	267	1.06	4.67	440.0	275	0.42	1.37	325.5
	284	0.77	2.51	325.5	296	0.21	0.16	80.0	304	1.16	4.18	360.0
	310	0.49	0.59	120.0	311	1.08	1.30	120.0	312	1.10	1.32	120.0
	313	0.50	0.60	120.0	314	1.09	1.31	120.0	315	1.14	1.37	120.0
	316	0.08	0.09	120.0	317	0.35	0.42	120.0	318	0.41	0.49	120.0
	319	0.55	0.66	120.0	320	0.47	0.56	120.0	321	0.04	0.01	40.0
	322	0.63	0.76	120.0	323	0.74	0.89	120.0	324	1.33	1.60	120.0
	325	0.64	0.77	120.0	326	0.82	0.98	120.0	327	1.38	1.66	120.0
	328	0.28	0.33	120.0	329	0.38	0.46	120.0	330	0.41	0.50	120.0
	331	0.55	0.67	120.0	332	0.51	0.61	120.0	333	0.24	0.19	80.0
	334	0.49	0.59	120.0	335	0.54	0.65	120.0	336	0.27	0.32	120.0
	337	0.28	0.33	120.0	338	0.34	0.40	120.0	348	0.65	2.87	440.0
	350	0.67	2.95	440.0	356	0.57	1.87	325.5	363	0.74	2.42	325.5
	364	1.20	3.92	325.5	369	1.11	3.61	325.5	375	0.18	0.14	80.0
	376	1.96	2.24	114.5	379	1.90	6.84	360.0	381	1.26	3.09	245.5
	382	1.13	4.07	360.0	383	0.75	2.69	360.0	384	0.58	2.10	360.0
	385	0.89	2.20	245.5	386	0.87	3.14	360.0	390	0.86	2.79	325.5
	392	1.63	1.87	114.5	393	1.68	6.04	360.0	396	0.18	0.15	80.0
	397	0.72	0.86	120.0	398	0.91	1.04	114.5	399	1.07	1.22	114.5
	403	1.18	1.35	114.5	407	1.26	4.54	360.0	408	1.22	4.39	360.0
	421	1.54	1.76	114.5	422	1.95	9.27	474.5	423	1.41	1.61	114.5
	424	1.80	8.54	474.5	425	1.72	6.20	360.0	429	1.44	5.17	360.0
	433	0.90	3.94	440.0	434	1.50	5.41	360.0	435	1.47	5.28	360.0
	436	1.15	5.07	440.0	437	1.75	6.31	360.0	438	1.44	5.18	360.0
	439	1.19	5.25	440.0	440	1.77	6.39	360.0	441	1.41	5.09	360.0
	442	0.22	0.18	80.0	443	1.54	5.54	360.0				
93	1	0.15	0.18	120.0	98	0.82	2.93	360.0	99	1.15	4.13	360.0
	100	1.25	4.51	360.0	101	0.15	0.12	80.0	102	0.58	0.69	120.0
	103	0.17	0.14	80.0	104	0.72	0.86	120.0	105	0.66	0.80	120.0
	106	0.57	2.49	440.0	107	1.00	3.61	360.0	108	1.11	3.98	360.0
	109	0.69	3.03	440.0	110	1.22	4.40	360.0	111	1.48	5.32	360.0
	112	0.89	3.90	440.0	113	1.30	4.66	360.0	114	1.30	4.69	360.0
	115	0.77	2.51	325.5	116	1.84	8.72	474.5	117	1.85	8.77	474.5
	118	1.02	3.31	325.5	119	3.82	9.37	245.5	120	1.31	4.73	360.0
	121	0.24	0.19	80.0	122	2.84	6.97	245.5	123	1.16	4.16	360.0
	124	0.22	0.18	80.0	125	1.26	4.55	360.0	126	1.51	5.43	360.0
	127	2.24	4.26	190.0	129	1.75	3.32	190.0	132	2.54	4.83	190.0
	134	1.65	5.96	360.0	135	1.87	3.55	190.0	137	2.45	4.65	190.0
	138	2.06	3.91	190.0	141	1.69	3.21	190.0	144	1.56	2.96	190.0
	145	0.83	3.66	440.0	146	1.30	4.69	360.0	147	1.26	4.54	360.0
	165	1.16	4.19	360.0	204	1.09	3.94	360.0	205	1.22	1.40	114.5
	207	1.89	4.65	245.5	212	2.18	7.85	360.0	215	0.58	1.89	325.5
	223	3.02	10.87	360.0	231	1.72	4.22	245.5	237	1.30	4.67	360.0
	244	0.05	0.04	80.0	245	0.26	0.31	120.0	246	0.33	0.39	120.0
	247	0.44	0.53	120.0	248	0.35	0.42	120.0	249	0.02	0.02	80.0

	254	1.27	4.58	360.0	267	1.02	4.49	440.0	275	0.42	1.36	325.5
	284	0.79	2.57	325.5	296	0.18	0.14	80.0	304	1.08	3.89	360.0
	310	0.47	0.56	120.0	311	1.00	1.20	120.0	312	0.99	1.18	120.0
	313	0.48	0.57	120.0	314	1.01	1.21	120.0	315	1.01	1.22	120.0
	316	0.07	0.09	120.0	317	0.30	0.36	120.0	318	0.34	0.41	120.0
	319	0.45	0.54	120.0	320	0.39	0.47	120.0	321	0.04	0.02	40.0
	322	0.60	0.72	120.0	323	0.68	0.81	120.0	324	1.21	1.45	120.0
	325	0.60	0.72	120.0	326	0.73	0.88	120.0	327	1.25	1.50	120.0
	328	0.20	0.24	120.0	329	0.32	0.39	120.0	330	0.34	0.41	120.0
	331	0.46	0.55	120.0	332	0.42	0.51	120.0	333	0.20	0.16	80.0
	334	0.45	0.55	120.0	335	0.50	0.59	120.0	336	0.23	0.27	120.0
	337	0.23	0.28	120.0	338	0.28	0.33	120.0	348	0.60	2.66	440.0
	350	0.64	2.81	440.0	356	0.57	1.86	325.5	363	0.82	2.66	325.5
	364	1.23	3.99	325.5	369	1.08	3.52	325.5	375	0.18	0.14	80.0
	376	1.83	2.10	114.5	379	1.73	6.21	360.0	381	1.21	2.96	245.5
	382	1.09	3.92	360.0	383	0.71	2.55	360.0	384	0.55	1.96	360.0
	385	0.87	2.14	245.5	386	0.82	2.95	360.0	390	0.82	2.68	325.5
	392	1.58	1.80	114.5	393	1.49	5.36	360.0	396	0.17	0.14	80.0
	397	0.66	0.80	120.0	398	0.60	0.69	114.5	399	1.08	1.24	114.5
	403	0.94	1.08	114.5	407	0.75	2.71	360.0	408	1.11	3.99	360.0
	421	1.29	1.48	114.5	422	2.07	9.83	474.5	423	1.15	1.32	114.5
	424	1.94	9.22	474.5	425	2.41	8.69	360.0	429	1.35	4.85	360.0
	433	0.86	3.78	440.0	434	1.42	5.10	360.0	435	1.36	4.90	360.0
	436	1.12	4.92	440.0	437	1.67	6.03	360.0	438	1.32	4.77	360.0
	439	1.16	5.10	440.0	440	1.69	6.10	360.0	441	1.29	4.66	360.0
	442	0.22	0.18	80.0	443	1.46	5.24	360.0				
94	1	0.06	0.07	120.0	98	0.52	1.87	360.0	99	0.36	1.29	360.0
	100	0.54	1.95	360.0	101	0.10	0.08	80.0	102	0.29	0.35	120.0
	103	0.07	0.05	80.0	104	0.28	0.34	120.0	105	0.26	0.31	120.0
	106	0.25	1.12	440.0	107	0.44	1.58	360.0	108	0.47	1.68	360.0
	109	0.35	1.54	440.0	110	0.59	2.13	360.0	111	0.72	2.61	360.0
	112	0.41	1.79	440.0	113	0.60	2.15	360.0	114	0.68	2.43	360.0
	115	0.72	2.36	325.5	116	1.08	5.14	474.5	117	1.12	5.30	474.5
	118	1.72	5.61	325.5	119	1.26	3.09	245.5	120	0.74	2.66	360.0
	121	0.36	0.29	80.0	122	0.89	2.18	245.5	123	0.62	2.25	360.0
	124	0.12	0.10	80.0	125	0.62	2.24	360.0	126	0.75	2.69	360.0
	127	1.07	2.03	190.0	129	0.81	1.54	190.0	132	1.32	2.50	190.0
	134	0.88	3.18	360.0	135	1.11	2.12	190.0	137	1.35	2.56	190.0
	138	1.06	2.01	190.0	141	0.87	1.65	190.0	144	0.70	1.32	190.0
	145	0.41	1.79	440.0	146	0.61	2.20	360.0	147	0.57	2.05	360.0
	165	0.54	1.96	360.0	204	0.48	1.72	360.0	205	2.59	2.97	114.5
	207	1.02	2.50	245.5	212	0.50	1.79	360.0	215	1.10	3.59	325.5
	223	0.60	2.17	360.0	231	0.94	2.30	245.5	237	0.61	2.20	360.0
	244	0.07	0.06	80.0	245	0.20	0.24	120.0	246	0.24	0.28	120.0
	247	0.20	0.24	120.0	248	0.16	0.19	120.0	249	9.02e-03	7.22e-03	80.0
	254	0.54	1.93	360.0	267	0.66	2.89	440.0	275	0.60	1.95	325.5
	284	1.67	5.45	325.5	296	0.08	0.06	80.0	304	0.48	1.71	360.0
	310	0.20	0.24	120.0	311	0.42	0.51	120.0	312	0.41	0.50	120.0
	313	0.19	0.22	120.0	314	0.39	0.47	120.0	315	0.39	0.47	120.0
	316	0.13	0.15	120.0	317	0.22	0.26	120.0	318	0.24	0.29	120.0
	319	0.20	0.24	120.0	320	0.17	0.21	120.0	321	0.02	7.22e-03	40.0
	322	0.26	0.31	120.0	323	0.32	0.39	120.0	324	0.51	0.61	120.0
	325	0.24	0.28	120.0	326	0.29	0.35	120.0	327	0.49	0.59	120.0
	328	0.13	0.16	120.0	329	0.23	0.28	120.0	330	0.25	0.30	120.0
	331	0.20	0.24	120.0	332	0.19	0.23	120.0	333	0.09	0.08	80.0
	334	0.23	0.27	120.0	335	0.20	0.24	120.0	336	0.17	0.20	120.0
	337	0.11	0.13	120.0	338	0.13	0.15	120.0	348	0.23	1.00	440.0
	350	0.31	1.35	440.0	356	0.58	1.90	325.5	363	0.66	2.13	325.5
	364	0.67	2.18	325.5	369	0.60	1.95	325.5	375	0.31	0.25	80.0
	376	1.02	1.17	114.5	379	0.96	3.46	360.0	381	0.60	1.48	245.5
	382	0.46	1.66	360.0	383	0.32	1.16	360.0	384	0.38	1.37	360.0
	385	1.38	3.38	245.5	386	0.43	1.55	360.0	390	0.61	1.99	325.5
	392	0.89	1.02	114.5	393	0.88	3.17	360.0	396	0.07	0.06	80.0
	397	0.30	0.36	120.0	398	0.20	0.23	114.5	399	1.83	2.09	114.5
	403	0.37	0.42	114.5	407	0.40	1.43	360.0	408	0.50	1.79	360.0
	421	0.69	0.79	114.5	422	1.07	5.07	474.5	423	0.61	0.69	114.5
	424	0.99	4.72	474.5	425	1.29	4.65	360.0	429	0.61	2.19	360.0
	433	0.38	1.69	440.0	434	0.61	2.18	360.0	435	0.58	2.08	360.0
	436	0.50	2.20	440.0	437	0.70	2.54	360.0	438	0.54	1.95	360.0
	439	0.51	2.25	440.0	440	0.71	2.55	360.0	441	0.53	1.91	360.0
	442	0.17	0.13	80.0	443	0.61	2.20	360.0				
95	1	0.07	0.09	120.0	98	0.63	2.25	360.0	99	0.46	1.66	360.0
	100	0.67	2.42	360.0	101	0.10	0.08	80.0	102	0.40	0.48	120.0
	103	0.09	0.07	80.0	104	0.39	0.46	120.0	105	0.39	0.47	120.0
	106	0.32	1.41	440.0	107	0.58	2.08	360.0	108	0.62	2.25	360.0
	109	0.41	1.81	440.0	110	0.76	2.75	360.0	111	0.86	3.08	360.0
	112	0.49	2.14	440.0	113	0.77	2.76	360.0	114	0.78	2.80	360.0

	115	0.49	1.59	325.5	116	1.06	5.01	474.5	117	1.13	5.37	474.5
	118	1.57	5.10	325.5	119	0.82	2.00	245.5	120	0.90	3.23	360.0
	121	0.38	0.30	80.0	122	0.77	1.89	245.5	123	0.72	2.59	360.0
	124	0.11	0.09	80.0	125	0.76	2.73	360.0	126	0.84	3.01	360.0
	127	1.23	2.34	190.0	129	0.95	1.81	190.0	132	1.44	2.74	190.0
	134	0.71	2.56	360.0	135	1.17	2.22	190.0	137	1.30	2.46	190.0
	138	1.03	1.96	190.0	141	0.92	1.74	190.0	144	0.68	1.29	190.0
	145	0.43	1.89	440.0	146	0.69	2.49	360.0	147	0.63	2.25	360.0
	165	1.11	4.00	360.0	204	0.53	1.91	360.0	205	2.43	2.79	114.5
	207	1.07	2.62	245.5	212	0.73	2.63	360.0	215	1.10	3.60	325.5
	223	1.11	4.01	360.0	231	0.99	2.43	245.5	237	0.69	2.47	360.0
	244	0.06	0.05	80.0	245	0.25	0.31	120.0	246	0.32	0.39	120.0
	247	0.30	0.36	120.0	248	0.23	0.28	120.0	249	8.48e-03	6.78e-03	80.0
	254	0.65	2.35	360.0	267	0.70	3.09	440.0	275	0.37	1.21	325.5
	284	1.54	5.00	325.5	296	0.10	0.08	80.0	304	0.56	2.03	360.0
	310	0.25	0.30	120.0	311	0.55	0.66	120.0	312	0.57	0.69	120.0
	313	0.24	0.28	120.0	314	0.52	0.63	120.0	315	0.55	0.66	120.0
	316	0.13	0.15	120.0	317	0.29	0.34	120.0	318	0.33	0.40	120.0
	319	0.31	0.37	120.0	320	0.27	0.32	120.0	321	0.02	6.78e-03	40.0
	322	0.32	0.39	120.0	323	0.43	0.51	120.0	324	0.67	0.81	120.0
	325	0.31	0.37	120.0	326	0.41	0.49	120.0	327	0.66	0.79	120.0
	328	0.15	0.19	120.0	329	0.31	0.38	120.0	330	0.34	0.41	120.0
	331	0.32	0.38	120.0	332	0.29	0.35	120.0	333	0.13	0.11	80.0
	334	0.29	0.34	120.0	335	0.27	0.33	120.0	336	0.22	0.26	120.0
	337	0.16	0.19	120.0	338	0.19	0.23	120.0	348	0.27	1.19	440.0
	350	0.32	1.40	440.0	356	0.59	1.91	325.5	363	0.61	1.97	325.5
	364	0.66	2.14	325.5	369	0.64	2.08	325.5	375	0.31	0.25	80.0
	376	1.14	1.31	114.5	379	1.04	3.73	360.0	381	0.65	1.60	245.5
	382	0.53	1.91	360.0	383	0.37	1.33	360.0	384	0.43	1.55	360.0
	385	1.32	3.23	245.5	386	0.47	1.71	360.0	390	0.61	1.97	325.5
	392	0.96	1.10	114.5	393	0.97	3.50	360.0	396	0.09	0.07	80.0
	397	0.39	0.47	120.0	398	0.53	0.61	114.5	399	1.75	2.00	114.5
	403	0.61	0.70	114.5	407	0.55	1.97	360.0	408	0.57	2.05	360.0
	421	0.89	1.02	114.5	422	1.17	5.53	474.5	423	0.81	0.93	114.5
	424	1.08	5.12	474.5	425	1.00	3.60	360.0	429	0.66	2.37	360.0
	433	0.40	1.77	440.0	434	0.67	2.40	360.0	435	0.67	2.40	360.0
	436	0.53	2.32	440.0	437	0.78	2.79	360.0	438	0.65	2.33	360.0
	439	0.56	2.45	440.0	440	0.80	2.88	360.0	441	0.64	2.30	360.0
	442	0.12	0.10	80.0	443	0.71	2.56	360.0				
96	1	0.16	0.20	120.0	98	0.86	3.09	360.0	99	1.27	4.56	360.0
	100	1.37	4.94	360.0	101	0.14	0.11	80.0	102	0.63	0.76	120.0
	103	0.18	0.14	80.0	104	0.76	0.92	120.0	105	0.74	0.89	120.0
	106	0.59	2.60	440.0	107	1.08	3.89	360.0	108	1.20	4.33	360.0
	109	0.72	3.15	440.0	110	1.34	4.81	360.0	111	1.55	5.60	360.0
	112	0.89	3.90	440.0	113	1.40	5.05	360.0	114	1.40	5.04	360.0
	115	0.58	1.88	325.5	116	1.80	8.54	474.5	117	1.74	8.25	474.5
	118	1.04	3.40	325.5	119	3.42	8.41	245.5	120	1.27	4.57	360.0
	121	0.22	0.18	80.0	122	2.82	6.93	245.5	123	1.26	4.52	360.0
	124	0.22	0.17	80.0	125	1.42	5.12	360.0	126	1.62	5.82	360.0
	127	2.46	4.67	190.0	129	1.84	3.49	190.0	132	2.57	4.89	190.0
	134	1.44	5.17	360.0	135	1.84	3.49	190.0	137	2.36	4.49	190.0
	138	2.16	4.10	190.0	141	1.83	3.48	190.0	144	1.60	3.04	190.0
	145	0.88	3.86	440.0	146	1.44	5.18	360.0	147	1.39	4.99	360.0
	165	1.65	5.92	360.0	204	1.21	4.35	360.0	205	1.47	1.69	114.5
	207	1.95	4.78	245.5	212	2.29	8.25	360.0	215	0.64	2.09	325.5
	223	2.95	10.61	360.0	231	1.78	4.38	245.5	237	1.41	5.09	360.0
	244	0.03	0.03	80.0	245	0.30	0.36	120.0	246	0.38	0.46	120.0
	247	0.52	0.62	120.0	248	0.40	0.48	120.0	249	0.02	0.01	80.0
	254	1.40	5.04	360.0	267	1.05	4.62	440.0	275	0.20	0.65	325.5
	284	0.89	2.90	325.5	296	0.20	0.16	80.0	304	1.15	4.14	360.0
	310	0.47	0.57	120.0	311	1.04	1.25	120.0	312	1.07	1.28	120.0
	313	0.48	0.58	120.0	314	1.06	1.27	120.0	315	1.11	1.33	120.0
	316	0.08	0.10	120.0	317	0.34	0.41	120.0	318	0.40	0.48	120.0
	319	0.54	0.65	120.0	320	0.46	0.55	120.0	321	0.04	0.01	40.0
	322	0.60	0.72	120.0	323	0.72	0.86	120.0	324	1.30	1.56	120.0
	325	0.61	0.74	120.0	326	0.79	0.95	120.0	327	1.35	1.62	120.0
	328	0.26	0.32	120.0	329	0.38	0.45	120.0	330	0.41	0.49	120.0
	331	0.54	0.65	120.0	332	0.50	0.60	120.0	333	0.23	0.18	80.0
	334	0.47	0.57	120.0	335	0.52	0.63	120.0	336	0.26	0.31	120.0
	337	0.27	0.33	120.0	338	0.33	0.39	120.0	348	0.81	3.55	440.0
	350	0.70	3.06	440.0	356	0.57	1.87	325.5	363	0.76	2.48	325.5
	364	1.20	3.92	325.5	369	1.10	3.57	325.5	375	0.18	0.14	80.0
	376	1.94	2.23	114.5	379	1.99	7.17	360.0	381	1.26	3.10	245.5
	382	1.10	3.97	360.0	383	0.74	2.66	360.0	384	0.56	2.02	360.0
	385	0.94	2.31	245.5	386	0.89	3.19	360.0	390	0.87	2.83	325.5
	392	1.63	1.86	114.5	393	1.72	6.18	360.0	396	0.18	0.14	80.0
	397	0.69	0.83	120.0	398	0.95	1.09	114.5	399	1.10	1.26	114.5

	403	1.22	1.40	114.5	407	1.35	4.86	360.0	408	1.26	4.52	360.0
	421	1.55	1.77	114.5	422	1.92	9.12	474.5	423	1.42	1.63	114.5
	424	1.77	8.40	474.5	425	1.61	5.80	360.0	429	1.48	5.32	360.0
	433	0.92	4.03	440.0	434	1.53	5.51	360.0	435	1.49	5.35	360.0
	436	1.16	5.11	440.0	437	1.76	6.35	360.0	438	1.45	5.21	360.0
	439	1.18	5.20	440.0	440	1.76	6.35	360.0	441	1.42	5.13	360.0
	442	0.25	0.20	80.0	443	1.52	5.48	360.0				
97	1	0.15	0.18	120.0	98	0.78	2.82	360.0	99	1.14	4.11	360.0
	100	1.24	4.48	360.0	101	0.15	0.12	80.0	102	0.55	0.66	120.0
	103	0.17	0.13	80.0	104	0.69	0.83	120.0	105	0.64	0.77	120.0
	106	0.55	2.40	440.0	107	0.97	3.50	360.0	108	1.08	3.88	360.0
	109	0.67	2.95	440.0	110	1.19	4.29	360.0	111	1.45	5.21	360.0
	112	0.85	3.72	440.0	113	1.27	4.56	360.0	114	1.30	4.67	360.0
	115	0.67	2.19	325.5	116	1.83	8.71	474.5	117	1.79	8.51	474.5
	118	1.11	3.61	325.5	119	3.30	8.09	245.5	120	1.21	4.37	360.0
	121	0.21	0.17	80.0	122	2.69	6.60	245.5	123	1.17	4.20	360.0
	124	0.22	0.18	80.0	125	1.28	4.61	360.0	126	1.52	5.48	360.0
	127	2.26	4.30	190.0	129	1.73	3.29	190.0	132	2.50	4.75	190.0
	134	1.62	5.82	360.0	135	1.83	3.47	190.0	137	2.44	4.63	190.0
	138	2.12	4.03	190.0	141	1.73	3.29	190.0	144	1.59	3.02	190.0
	145	0.84	3.72	440.0	146	1.33	4.79	360.0	147	1.30	4.68	360.0
	165	1.14	4.09	360.0	204	1.13	4.07	360.0	205	1.38	1.59	114.5
	207	1.90	4.68	245.5	212	2.12	7.62	360.0	215	0.59	1.93	325.5
	223	2.72	9.78	360.0	231	1.73	4.26	245.5	237	1.32	4.77	360.0
	244	0.05	0.04	80.0	245	0.25	0.31	120.0	246	0.32	0.38	120.0
	247	0.43	0.52	120.0	248	0.34	0.41	120.0	249	0.02	0.01	80.0
	254	1.28	4.60	360.0	267	1.01	4.44	440.0	275	0.20	0.64	325.5
	284	0.91	2.96	325.5	296	0.18	0.14	80.0	304	1.07	3.85	360.0
	310	0.45	0.54	120.0	311	0.96	1.16	120.0	312	0.95	1.14	120.0
	313	0.45	0.54	120.0	314	0.97	1.16	120.0	315	0.98	1.18	120.0
	316	0.08	0.09	120.0	317	0.29	0.35	120.0	318	0.33	0.40	120.0
	319	0.44	0.53	120.0	320	0.38	0.45	120.0	321	0.04	0.01	40.0
	322	0.57	0.68	120.0	323	0.65	0.78	120.0	324	1.18	1.42	120.0
	325	0.57	0.69	120.0	326	0.71	0.85	120.0	327	1.22	1.46	120.0
	328	0.19	0.23	120.0	329	0.31	0.38	120.0	330	0.34	0.40	120.0
	331	0.44	0.53	120.0	332	0.41	0.49	120.0	333	0.20	0.16	80.0
	334	0.44	0.52	120.0	335	0.48	0.57	120.0	336	0.22	0.26	120.0
	337	0.22	0.27	120.0	338	0.27	0.32	120.0	348	0.76	3.33	440.0
	350	0.66	2.91	440.0	356	0.57	1.86	325.5	363	0.84	2.72	325.5
	364	1.23	4.00	325.5	369	1.07	3.48	325.5	375	0.18	0.14	80.0
	376	1.81	2.08	114.5	379	1.77	6.36	360.0	381	1.21	2.97	245.5
	382	1.06	3.82	360.0	383	0.70	2.51	360.0	384	0.52	1.88	360.0
	385	0.92	2.26	245.5	386	0.83	3.00	360.0	390	0.81	2.64	325.5
	392	1.57	1.80	114.5	393	1.55	5.59	360.0	396	0.16	0.13	80.0
	397	0.64	0.77	120.0	398	0.66	0.75	114.5	399	1.12	1.28	114.5
	403	0.99	1.13	114.5	407	0.78	2.80	360.0	408	1.15	4.13	360.0
	421	1.30	1.49	114.5	422	2.04	9.68	474.5	423	1.16	1.32	114.5
	424	1.91	9.08	474.5	425	2.28	8.22	360.0	429	1.39	5.00	360.0
	433	0.88	3.87	440.0	434	1.44	5.20	360.0	435	1.38	4.97	360.0
	436	1.13	4.95	440.0	437	1.68	6.06	360.0	438	1.33	4.80	360.0
	439	1.15	5.05	440.0	440	1.68	6.06	360.0	441	1.30	4.69	360.0
	442	0.25	0.20	80.0	443	1.44	5.18	360.0				
98	1	0.06	0.07	120.0	98	0.54	1.95	360.0	99	0.39	1.42	360.0
	100	0.55	1.97	360.0	101	0.10	0.08	80.0	102	0.30	0.36	120.0
	103	0.08	0.06	80.0	104	0.31	0.37	120.0	105	0.28	0.34	120.0
	106	0.27	1.20	440.0	107	0.47	1.68	360.0	108	0.50	1.78	360.0
	109	0.37	1.61	440.0	110	0.62	2.22	360.0	111	0.75	2.71	360.0
	112	0.44	1.95	440.0	113	0.62	2.25	360.0	114	0.68	2.46	360.0
	115	0.56	1.83	325.5	116	1.10	5.24	474.5	117	1.19	5.67	474.5
	118	1.61	5.23	325.5	119	0.86	2.11	245.5	120	0.87	3.14	360.0
	121	0.37	0.30	80.0	122	0.80	1.98	245.5	123	0.64	2.31	360.0
	124	0.12	0.09	80.0	125	0.61	2.21	360.0	126	0.74	2.66	360.0
	127	1.04	1.98	190.0	129	0.83	1.57	190.0	132	1.36	2.59	190.0
	134	0.92	3.31	360.0	135	1.16	2.21	190.0	137	1.37	2.59	190.0
	138	1.00	1.90	190.0	141	0.82	1.56	190.0	144	0.66	1.26	190.0
	145	0.40	1.74	440.0	146	0.59	2.12	360.0	147	0.53	1.92	360.0
	165	0.57	2.04	360.0	204	0.44	1.60	360.0	205	2.43	2.78	114.5
	207	1.02	2.49	245.5	212	0.49	1.75	360.0	215	1.08	3.50	325.5
	223	0.73	2.63	360.0	231	0.93	2.28	245.5	237	0.59	2.13	360.0
	244	0.07	0.06	80.0	245	0.20	0.24	120.0	246	0.24	0.28	120.0
	247	0.21	0.25	120.0	248	0.17	0.20	120.0	249	9.44e-03	7.55e-03	80.0
	254	0.53	1.90	360.0	267	0.66	2.92	440.0	275	0.38	1.23	325.5
	284	1.55	5.06	325.5	296	0.08	0.06	80.0	304	0.48	1.74	360.0
	310	0.22	0.27	120.0	311	0.46	0.55	120.0	312	0.44	0.53	120.0
	313	0.21	0.25	120.0	314	0.43	0.52	120.0	315	0.42	0.51	120.0
	316	0.13	0.15	120.0	317	0.22	0.26	120.0	318	0.24	0.29	120.0
	319	0.21	0.25	120.0	320	0.18	0.22	120.0	321	0.02	7.55e-03	40.0

	322	0.28	0.34	120.0	323	0.34	0.41	120.0	324	0.54	0.64	120.0
	325	0.26	0.32	120.0	326	0.32	0.38	120.0	327	0.52	0.63	120.0
	328	0.12	0.15	120.0	329	0.23	0.28	120.0	330	0.25	0.30	120.0
	331	0.21	0.25	120.0	332	0.20	0.24	120.0	333	0.10	0.08	80.0
	334	0.24	0.29	120.0	335	0.22	0.27	120.0	336	0.17	0.20	120.0
	337	0.11	0.13	120.0	338	0.13	0.16	120.0	348	0.27	1.20	440.0
	350	0.28	1.25	440.0	356	0.58	1.90	325.5	363	0.64	2.09	325.5
	364	0.67	2.17	325.5	369	0.61	1.99	325.5	375	0.31	0.25	80.0
	376	1.04	1.19	114.5	379	1.03	3.72	360.0	381	0.61	1.49	245.5
	382	0.49	1.76	360.0	383	0.33	1.19	360.0	384	0.39	1.41	360.0
	385	1.32	3.25	245.5	386	0.42	1.51	360.0	390	0.70	2.29	325.5
	392	0.90	1.03	114.5	393	0.87	3.14	360.0	396	0.08	0.06	80.0
	397	0.32	0.38	120.0	398	0.19	0.22	114.5	399	1.78	2.04	114.5
	403	0.33	0.37	114.5	407	0.47	1.69	360.0	408	0.46	1.67	360.0
	421	0.69	0.79	114.5	422	0.81	3.84	474.5	423	0.61	0.70	114.5
	424	0.70	3.34	474.5	425	0.81	2.90	360.0	429	0.57	2.04	360.0
	433	0.36	1.60	440.0	434	0.58	2.08	360.0	435	0.56	2.01	360.0
	436	0.49	2.17	440.0	437	0.69	2.50	360.0	438	0.53	1.91	360.0
	439	0.52	2.30	440.0	440	0.72	2.58	360.0	441	0.52	1.87	360.0
	442	0.12	0.10	80.0	443	0.63	2.26	360.0				
99	1	0.11	0.14	120.0	98	0.78	2.81	360.0	99	0.83	3.00	360.0
	100	0.85	3.05	360.0	101	0.19	0.15	80.0	102	0.53	0.63	120.0
	103	0.14	0.11	80.0	104	0.56	0.67	120.0	105	0.50	0.60	120.0
	106	0.40	1.76	440.0	107	0.71	2.54	360.0	108	0.79	2.86	360.0
	109	0.43	1.89	440.0	110	0.77	2.76	360.0	111	0.94	3.37	360.0
	112	0.60	2.65	440.0	113	0.87	3.13	360.0	114	0.76	2.73	360.0
	115	1.75	5.69	325.5	116	0.95	4.52	474.5	117	0.87	4.14	474.5
	118	1.92	6.27	325.5	119	0.74	1.82	245.5	120	0.62	2.22	360.0
	121	0.39	0.31	80.0	122	0.59	1.44	245.5	123	0.64	2.32	360.0
	124	0.13	0.11	80.0	125	0.74	2.68	360.0	126	0.92	3.32	360.0
	127	1.41	2.69	190.0	129	1.34	2.55	190.0	132	1.52	2.89	190.0
	134	1.09	3.93	360.0	135	0.81	1.55	190.0	137	1.39	2.63	190.0
	138	1.22	2.32	190.0	141	1.00	1.89	190.0	144	1.14	2.16	190.0
	145	0.46	2.03	440.0	146	0.77	2.78	360.0	147	0.84	3.03	360.0
	165	0.65	2.35	360.0	204	0.79	2.86	360.0	205	2.95	3.38	114.5
	207	0.97	2.38	245.5	212	0.57	2.06	360.0	215	1.19	3.88	325.5
	223	0.66	2.36	360.0	231	0.91	2.24	245.5	237	0.86	3.10	360.0
	244	0.06	0.05	80.0	245	0.28	0.33	120.0	246	0.36	0.43	120.0
	247	0.28	0.34	120.0	248	0.22	0.27	120.0	249	0.01	0.01	80.0
	254	0.88	3.18	360.0	267	0.47	2.06	440.0	275	1.72	5.59	325.5
	284	1.90	6.18	325.5	296	0.12	0.09	80.0	304	0.73	2.63	360.0
	310	0.39	0.47	120.0	311	0.84	1.00	120.0	312	0.83	1.00	120.0
	313	0.38	0.46	120.0	314	0.79	0.94	120.0	315	0.78	0.94	120.0
	316	0.13	0.15	120.0	317	0.32	0.38	120.0	318	0.37	0.45	120.0
	319	0.29	0.34	120.0	320	0.24	0.29	120.0	321	0.03	0.01	40.0
	322	0.49	0.59	120.0	323	0.59	0.71	120.0	324	0.98	1.17	120.0
	325	0.47	0.57	120.0	326	0.56	0.67	120.0	327	0.95	1.14	120.0
	328	0.15	0.18	120.0	329	0.35	0.42	120.0	330	0.38	0.46	120.0
	331	0.29	0.35	120.0	332	0.27	0.32	120.0	333	0.13	0.10	80.0
	334	0.40	0.48	120.0	335	0.37	0.45	120.0	336	0.24	0.29	120.0
	337	0.14	0.17	120.0	338	0.17	0.21	120.0	348	0.62	2.71	440.0
	350	0.38	1.67	440.0	356	0.28	0.92	325.5	363	0.50	1.64	325.5
	364	0.60	1.96	325.5	369	0.44	1.42	325.5	375	0.31	0.25	80.0
	376	0.74	0.85	114.5	379	0.87	3.13	360.0	381	0.49	1.21	245.5
	382	0.77	2.78	360.0	383	0.47	1.68	360.0	384	0.51	1.83	360.0
	385	1.49	3.66	245.5	386	0.47	1.68	360.0	390	0.54	1.75	325.5
	392	0.72	0.82	114.5	393	0.62	2.22	360.0	396	0.14	0.11	80.0
	397	0.57	0.68	120.0	398	0.46	0.52	114.5	399	2.00	2.28	114.5
	403	0.67	0.76	114.5	407	0.42	1.52	360.0	408	0.69	2.48	360.0
	421	0.63	0.72	114.5	422	0.99	4.70	474.5	423	0.57	0.66	114.5
	424	0.93	4.43	474.5	425	1.24	4.46	360.0	429	0.87	3.13	360.0
	433	0.57	2.52	440.0	434	0.98	3.54	360.0	435	0.95	3.41	360.0
	436	0.76	3.36	440.0	437	1.20	4.33	360.0	438	0.97	3.48	360.0
	439	0.81	3.57	440.0	440	1.23	4.44	360.0	441	0.94	3.37	360.0
	442	0.21	0.17	80.0	443	1.05	3.80	360.0				
100	1	0.19	0.23	120.0	98	1.00	3.59	360.0	99	1.64	5.91	360.0
	100	1.57	5.64	360.0	101	0.11	0.09	80.0	102	0.75	0.90	120.0
	103	0.22	0.17	80.0	104	0.91	1.09	120.0	105	0.87	1.04	120.0
	106	0.66	2.93	440.0	107	1.21	4.36	360.0	108	1.38	4.95	360.0
	109	0.75	3.28	440.0	110	1.40	5.03	360.0	111	1.65	5.95	360.0
	112	1.06	4.65	440.0	113	1.55	5.59	360.0	114	1.38	4.96	360.0
	115	1.73	5.63	325.5	116	1.62	7.69	474.5	117	1.58	7.48	474.5
	118	1.15	3.74	325.5	119	4.13	10.15	245.5	120	1.30	4.70	360.0
	121	0.26	0.21	80.0	122	3.02	7.41	245.5	123	1.19	4.28	360.0
	124	0.21	0.17	80.0	125	1.43	5.15	360.0	126	1.66	5.97	360.0
	127	2.61	4.96	190.0	129	2.09	3.98	190.0	132	2.69	5.11	190.0
	134	1.60	5.76	360.0	135	1.71	3.25	190.0	137	2.39	4.53	190.0

	138	2.20	4.18	190.0	141	1.89	3.60	190.0	144	1.74	3.30	190.0
	145	0.96	4.24	440.0	146	1.56	5.62	360.0	147	1.49	5.35	360.0
	165	1.54	5.53	360.0	204	1.27	4.58	360.0	205	1.78	2.04	114.5
	207	2.00	4.91	245.5	212	2.42	8.72	360.0	215	0.72	2.34	325.5
	223	3.41	12.26	360.0	231	1.76	4.32	245.5	237	1.47	5.28	360.0
	244	0.04	0.03	80.0	245	0.32	0.38	120.0	246	0.40	0.48	120.0
	247	0.56	0.67	120.0	248	0.43	0.52	120.0	249	0.02	0.02	80.0
	254	1.62	5.83	360.0	267	0.86	3.77	440.0	275	1.67	5.42	325.5
	284	1.05	3.42	325.5	296	0.23	0.19	80.0	304	1.33	4.78	360.0
	310	0.58	0.70	120.0	311	1.27	1.53	120.0	312	1.29	1.55	120.0
	313	0.59	0.71	120.0	314	1.28	1.53	120.0	315	1.32	1.59	120.0
	316	0.08	0.09	120.0	317	0.36	0.43	120.0	318	0.42	0.50	120.0
	319	0.58	0.69	120.0	320	0.49	0.59	120.0	321	0.04	0.02	40.0
	322	0.74	0.89	120.0	323	0.86	1.03	120.0	324	1.54	1.84	120.0
	325	0.75	0.90	120.0	326	0.94	1.12	120.0	327	1.60	1.91	120.0
	328	0.25	0.29	120.0	329	0.39	0.47	120.0	330	0.42	0.50	120.0
	331	0.58	0.70	120.0	332	0.53	0.64	120.0	333	0.25	0.20	80.0
	334	0.56	0.68	120.0	335	0.62	0.74	120.0	336	0.27	0.33	120.0
	337	0.29	0.35	120.0	338	0.35	0.42	120.0	348	0.88	3.87	440.0
	350	0.74	3.25	440.0	356	0.24	0.79	325.5	363	0.58	1.90	325.5
	364	1.28	4.16	325.5	369	1.16	3.79	325.5	375	0.15	0.12	80.0
	376	2.03	2.33	114.5	379	2.04	7.36	360.0	381	1.27	3.11	245.5
	382	1.30	4.70	360.0	383	0.85	3.06	360.0	384	0.66	2.36	360.0
	385	1.00	2.45	245.5	386	0.86	3.11	360.0	390	0.98	3.18	325.5
	392	1.60	1.83	114.5	393	1.56	5.61	360.0	396	0.21	0.17	80.0
	397	0.84	1.00	120.0	398	0.96	1.10	114.5	399	1.31	1.50	114.5
	403	1.28	1.46	114.5	407	1.28	4.62	360.0	408	1.37	4.92	360.0
	421	1.52	1.74	114.5	422	1.74	8.27	474.5	423	1.39	1.60	114.5
	424	1.58	7.48	474.5	425	1.59	5.74	360.0	429	1.61	5.81	360.0
	433	1.02	4.50	440.0	434	1.74	6.28	360.0	435	1.71	6.14	360.0
	436	1.31	5.76	440.0	437	2.05	7.39	360.0	438	1.71	6.16	360.0
	439	1.36	5.98	440.0	440	2.08	7.48	360.0	441	1.68	6.04	360.0
	442	0.25	0.20	80.0	443	1.79	6.46	360.0				
101	1	0.18	0.21	120.0	98	0.95	3.42	360.0	99	1.40	5.03	360.0
	100	1.44	5.18	360.0	101	0.12	0.09	80.0	102	0.70	0.84	120.0
	103	0.21	0.17	80.0	104	0.85	1.02	120.0	105	0.77	0.93	120.0
	106	0.62	2.74	440.0	107	1.11	3.99	360.0	108	1.25	4.51	360.0
	109	0.70	3.09	440.0	110	1.26	4.55	360.0	111	1.54	5.55	360.0
	112	1.02	4.49	440.0	113	1.43	5.14	360.0	114	1.27	4.59	360.0
	115	1.76	5.71	325.5	116	1.65	7.85	474.5	117	1.64	7.76	474.5
	118	1.18	3.83	325.5	119	4.08	10.02	245.5	120	1.27	4.56	360.0
	121	0.25	0.20	80.0	122	2.96	7.27	245.5	123	1.10	3.96	360.0
	124	0.22	0.18	80.0	125	1.29	4.65	360.0	126	1.57	5.64	360.0
	127	2.42	4.59	190.0	129	2.01	3.81	190.0	132	2.62	4.99	190.0
	134	1.75	6.31	360.0	135	1.71	3.24	190.0	137	2.46	4.68	190.0
	138	2.16	4.10	190.0	141	1.79	3.39	190.0	144	1.73	3.29	190.0
	145	0.93	4.09	440.0	146	1.45	5.23	360.0	147	1.40	5.06	360.0
	165	1.11	3.99	360.0	204	1.21	4.34	360.0	205	1.65	1.89	114.5
	207	1.96	4.81	245.5	212	2.31	8.33	360.0	215	0.66	2.15	325.5
	223	3.27	11.78	360.0	231	1.72	4.21	245.5	237	1.38	4.96	360.0
	244	0.03	0.02	80.0	245	0.30	0.36	120.0	246	0.39	0.47	120.0
	247	0.47	0.57	120.0	248	0.37	0.45	120.0	249	0.02	0.02	80.0
	254	1.50	5.39	360.0	267	0.82	3.59	440.0	275	1.66	5.41	325.5
	284	1.03	3.36	325.5	296	0.21	0.17	80.0	304	1.25	4.49	360.0
	310	0.56	0.67	120.0	311	1.20	1.45	120.0	312	1.19	1.43	120.0
	313	0.57	0.68	120.0	314	1.19	1.43	120.0	315	1.20	1.44	120.0
	316	0.07	0.08	120.0	317	0.35	0.42	120.0	318	0.41	0.49	120.0
	319	0.49	0.58	120.0	320	0.42	0.50	120.0	321	0.04	0.02	40.0
	322	0.71	0.86	120.0	323	0.81	0.97	120.0	324	1.43	1.72	120.0
	325	0.71	0.86	120.0	326	0.86	1.03	120.0	327	1.47	1.76	120.0
	328	0.23	0.28	120.0	329	0.38	0.46	120.0	330	0.41	0.49	120.0
	331	0.49	0.59	120.0	332	0.45	0.54	120.0	333	0.21	0.17	80.0
	334	0.54	0.65	120.0	335	0.57	0.69	120.0	336	0.26	0.31	120.0
	337	0.24	0.29	120.0	338	0.29	0.35	120.0	348	0.83	3.64	440.0
	350	0.71	3.10	440.0	356	0.24	0.79	325.5	363	0.69	2.24	325.5
	364	1.30	4.24	325.5	369	1.14	3.70	325.5	375	0.14	0.12	80.0
	376	1.90	2.17	114.5	379	1.82	6.55	360.0	381	1.22	2.98	245.5
	382	1.27	4.56	360.0	383	0.81	2.92	360.0	384	0.63	2.27	360.0
	385	0.95	2.33	245.5	386	0.81	2.93	360.0	390	0.86	2.79	325.5
	392	1.54	1.76	114.5	393	1.41	5.09	360.0	396	0.20	0.16	80.0
	397	0.80	0.95	120.0	398	0.67	0.77	114.5	399	1.26	1.44	114.5
	403	1.06	1.21	114.5	407	0.82	2.97	360.0	408	1.26	4.52	360.0
	421	1.24	1.42	114.5	422	1.86	8.83	474.5	423	1.10	1.26	114.5
	424	1.73	8.19	474.5	425	2.24	8.07	360.0	429	1.53	5.49	360.0
	433	0.99	4.34	440.0	434	1.66	5.97	360.0	435	1.60	5.77	360.0
	436	1.27	5.61	440.0	437	1.97	7.11	360.0	438	1.60	5.76	360.0
	439	1.33	5.84	440.0	440	2.00	7.19	360.0	441	1.56	5.61	360.0

	442	0.25	0.20	80.0	443	1.71	6.17	360.0				
102	1	0.12	0.15	120.0	98	0.79	2.86	360.0	99	0.83	2.98	360.0
	100	0.97	3.49	360.0	101	0.18	0.14	80.0	102	0.55	0.66	120.0
	103	0.15	0.12	80.0	104	0.62	0.74	120.0	105	0.59	0.71	120.0
	106	0.44	1.94	440.0	107	0.80	2.89	360.0	108	0.91	3.29	360.0
	109	0.47	2.07	440.0	110	0.89	3.22	360.0	111	1.05	3.78	360.0
	112	0.64	2.80	440.0	113	0.99	3.56	360.0	114	0.86	3.11	360.0
	115	1.74	5.65	325.5	116	0.93	4.40	474.5	117	0.82	3.90	474.5
	118	1.93	6.28	325.5	119	0.74	1.81	245.5	120	0.67	2.42	360.0
	121	0.40	0.32	80.0	122	0.61	1.49	245.5	123	0.73	2.64	360.0
	124	0.12	0.10	80.0	125	0.88	3.17	360.0	126	1.01	3.64	360.0
	127	1.60	3.04	190.0	129	1.41	2.67	190.0	132	1.57	2.99	190.0
	134	0.97	3.49	360.0	135	0.82	1.55	190.0	137	1.31	2.48	190.0
	138	1.27	2.41	190.0	141	1.11	2.10	190.0	144	1.15	2.19	190.0
	145	0.50	2.18	440.0	146	0.88	3.18	360.0	147	0.92	3.31	360.0
	165	1.03	3.69	360.0	204	0.87	3.14	360.0	205	3.02	3.46	114.5
	207	1.00	2.44	245.5	212	0.75	2.71	360.0	215	1.22	3.97	325.5
	223	0.88	3.17	360.0	231	0.94	2.31	245.5	237	0.95	3.41	360.0
	244	0.07	0.06	80.0	245	0.26	0.32	120.0	246	0.33	0.39	120.0
	247	0.36	0.43	120.0	248	0.27	0.33	120.0	249	0.01	0.01	80.0
	254	1.00	3.61	360.0	267	0.51	2.23	440.0	275	1.72	5.60	325.5
	284	1.92	6.24	325.5	296	0.14	0.11	80.0	304	0.81	2.91	360.0
	310	0.41	0.49	120.0	311	0.89	1.07	120.0	312	0.91	1.09	120.0
	313	0.41	0.49	120.0	314	0.87	1.04	120.0	315	0.90	1.08	120.0
	316	0.13	0.16	120.0	317	0.30	0.36	120.0	318	0.34	0.41	120.0
	319	0.37	0.44	120.0	320	0.31	0.37	120.0	321	0.03	0.01	40.0
	322	0.52	0.62	120.0	323	0.62	0.74	120.0	324	1.06	1.27	120.0
	325	0.51	0.61	120.0	326	0.63	0.76	120.0	327	1.08	1.29	120.0
	328	0.13	0.16	120.0	329	0.32	0.38	120.0	330	0.34	0.41	120.0
	331	0.37	0.45	120.0	332	0.34	0.41	120.0	333	0.16	0.13	80.0
	334	0.41	0.49	120.0	335	0.41	0.50	120.0	336	0.22	0.27	120.0
	337	0.18	0.22	120.0	338	0.22	0.27	120.0	348	0.67	2.93	440.0
	350	0.41	1.80	440.0	356	0.28	0.91	325.5	363	0.41	1.35	325.5
	364	0.56	1.81	325.5	369	0.47	1.52	325.5	375	0.31	0.25	80.0
	376	0.91	1.05	114.5	379	1.18	4.26	360.0	381	0.55	1.34	245.5
	382	0.81	2.91	360.0	383	0.51	1.82	360.0	384	0.52	1.86	360.0
	385	1.52	3.74	245.5	386	0.52	1.86	360.0	390	0.72	2.33	325.5
	392	0.77	0.88	114.5	393	0.77	2.78	360.0	396	0.14	0.12	80.0
	397	0.59	0.71	120.0	398	0.70	0.80	114.5	399	2.04	2.34	114.5
	403	0.86	0.99	114.5	407	0.86	3.10	360.0	408	0.80	2.88	360.0
	421	0.93	1.06	114.5	422	0.89	4.20	474.5	423	0.88	1.01	114.5
	424	0.81	3.83	474.5	425	0.63	2.26	360.0	429	0.95	3.42	360.0
	433	0.61	2.68	440.0	434	1.07	3.84	360.0	435	1.04	3.76	360.0
	436	0.80	3.50	440.0	437	1.28	4.60	360.0	438	1.07	3.87	360.0
	439	0.84	3.71	440.0	440	1.31	4.71	360.0	441	1.05	3.78	360.0
	442	0.22	0.18	80.0	443	1.13	4.08	360.0				
103	1	0.11	0.13	120.0	98	0.75	2.71	360.0	99	0.76	2.74	360.0
	100	0.86	3.08	360.0	101	0.13	0.10	80.0	102	0.52	0.62	120.0
	103	0.14	0.11	80.0	104	0.54	0.65	120.0	105	0.49	0.58	120.0
	106	0.39	1.70	440.0	107	0.68	2.46	360.0	108	0.77	2.79	360.0
	109	0.41	1.81	440.0	110	0.73	2.64	360.0	111	0.90	3.25	360.0
	112	0.62	2.74	440.0	113	0.86	3.11	360.0	114	0.71	2.55	360.0
	115	1.74	5.67	325.5	116	0.88	4.16	474.5	117	0.82	3.87	474.5
	118	1.86	6.04	325.5	119	0.56	1.36	245.5	120	0.62	2.24	360.0
	121	0.38	0.30	80.0	122	0.53	1.29	245.5	123	0.60	2.15	360.0
	124	0.13	0.10	80.0	125	0.72	2.60	360.0	126	0.90	3.24	360.0
	127	1.40	2.66	190.0	129	1.32	2.50	190.0	132	1.50	2.85	190.0
	134	1.08	3.87	360.0	135	0.82	1.55	190.0	137	1.38	2.62	190.0
	138	1.22	2.32	190.0	141	1.01	1.92	190.0	144	1.09	2.08	190.0
	145	0.50	2.22	440.0	146	0.81	2.91	360.0	147	0.84	3.02	360.0
	165	0.62	2.23	360.0	204	0.75	2.72	360.0	205	2.86	3.28	114.5
	207	1.03	2.52	245.5	212	0.62	2.23	360.0	215	1.16	3.79	325.5
	223	0.81	2.90	360.0	231	0.92	2.26	245.5	237	0.83	2.98	360.0
	244	0.06	0.05	80.0	245	0.27	0.32	120.0	246	0.35	0.42	120.0
	247	0.27	0.33	120.0	248	0.22	0.26	120.0	249	0.01	0.01	80.0
	254	0.90	3.25	360.0	267	0.41	1.82	440.0	275	1.72	5.59	325.5
	284	1.83	5.96	325.5	296	0.12	0.10	80.0	304	0.74	2.68	360.0
	310	0.38	0.46	120.0	311	0.82	0.98	120.0	312	0.81	0.98	120.0
	313	0.37	0.45	120.0	314	0.77	0.92	120.0	315	0.77	0.92	120.0
	316	0.13	0.15	120.0	317	0.31	0.37	120.0	318	0.36	0.43	120.0
	319	0.28	0.34	120.0	320	0.24	0.29	120.0	321	0.03	0.01	40.0
	322	0.48	0.58	120.0	323	0.58	0.69	120.0	324	0.96	1.15	120.0
	325	0.46	0.56	120.0	326	0.54	0.65	120.0	327	0.93	1.12	120.0
	328	0.14	0.17	120.0	329	0.34	0.41	120.0	330	0.37	0.44	120.0
	331	0.28	0.34	120.0	332	0.26	0.31	120.0	333	0.12	0.10	80.0
	334	0.39	0.46	120.0	335	0.37	0.44	120.0	336	0.23	0.28	120.0
	337	0.14	0.17	120.0	338	0.17	0.20	120.0	348	0.61	2.66	440.0

	350	0.39	1.74	440.0	356	0.20	0.64	325.5	363	0.46	1.49	325.5
	364	0.67	2.18	325.5	369	0.53	1.73	325.5	375	0.30	0.24	80.0
	376	0.88	1.01	114.5	379	0.93	3.36	360.0	381	0.53	1.30	245.5
	382	0.77	2.78	360.0	383	0.48	1.72	360.0	384	0.50	1.79	360.0
	385	1.45	3.56	245.5	386	0.45	1.62	360.0	390	0.56	1.81	325.5
	392	0.76	0.87	114.5	393	0.64	2.29	360.0	396	0.13	0.11	80.0
	397	0.55	0.66	120.0	398	0.42	0.48	114.5	399	1.95	2.23	114.5
	403	0.64	0.74	114.5	407	0.47	1.71	360.0	408	0.71	2.57	360.0
	421	0.61	0.70	114.5	422	0.95	4.48	474.5	423	0.54	0.62	114.5
	424	0.88	4.17	474.5	425	1.25	4.49	360.0	429	0.89	3.21	360.0
	433	0.59	2.59	440.0	434	1.00	3.62	360.0	435	0.97	3.50	360.0
	436	0.77	3.39	440.0	437	1.22	4.40	360.0	438	0.99	3.57	360.0
	439	0.81	3.58	440.0	440	1.24	4.48	360.0	441	0.96	3.46	360.0
	442	0.20	0.16	80.0	443	1.06	3.82	360.0				
104	1	0.19	0.23	120.0	98	1.02	3.66	360.0	99	1.56	5.62	360.0
	100	1.55	5.58	360.0	101	0.17	0.13	80.0	102	0.76	0.91	120.0
	103	0.22	0.18	80.0	104	0.92	1.11	120.0	105	0.88	1.06	120.0
	106	0.68	2.99	440.0	107	1.24	4.45	360.0	108	1.40	5.03	360.0
	109	0.77	3.37	440.0	110	1.43	5.16	360.0	111	1.69	6.08	360.0
	112	1.04	4.58	440.0	113	1.57	5.64	360.0	114	1.42	5.13	360.0
	115	1.74	5.65	325.5	116	1.70	8.04	474.5	117	1.63	7.73	474.5
	118	1.22	3.97	325.5	119	3.85	9.46	245.5	120	1.30	4.67	360.0
	121	0.28	0.22	80.0	122	2.91	7.15	245.5	123	1.23	4.44	360.0
	124	0.22	0.17	80.0	125	1.46	5.25	360.0	126	1.68	6.06	360.0
	127	2.62	4.97	190.0	129	2.11	4.02	190.0	132	2.70	5.14	190.0
	134	1.62	5.82	360.0	135	1.71	3.25	190.0	137	2.39	4.54	190.0
	138	2.20	4.18	190.0	141	1.88	3.57	190.0	144	1.78	3.38	190.0
	145	0.92	4.04	440.0	146	1.52	5.48	360.0	147	1.49	5.36	360.0
	165	1.61	5.79	360.0	204	1.31	4.73	360.0	205	1.87	2.15	114.5
	207	1.93	4.74	245.5	212	2.37	8.54	360.0	215	0.76	2.47	325.5
	223	3.27	11.76	360.0	231	1.75	4.30	245.5	237	1.50	5.41	360.0
	244	0.04	0.03	80.0	245	0.32	0.39	120.0	246	0.41	0.49	120.0
	247	0.56	0.68	120.0	248	0.44	0.52	120.0	249	0.02	0.02	80.0
	254	1.59	5.74	360.0	267	0.92	4.06	440.0	275	1.67	5.43	325.5
	284	1.12	3.63	325.5	296	0.23	0.18	80.0	304	1.31	4.71	360.0
	310	0.59	0.71	120.0	311	1.29	1.55	120.0	312	1.31	1.57	120.0
	313	0.60	0.72	120.0	314	1.29	1.55	120.0	315	1.34	1.61	120.0
	316	0.08	0.09	120.0	317	0.37	0.44	120.0	318	0.42	0.51	120.0
	319	0.58	0.70	120.0	320	0.49	0.59	120.0	321	0.04	0.02	40.0
	322	0.75	0.90	120.0	323	0.87	1.05	120.0	324	1.56	1.87	120.0
	325	0.76	0.91	120.0	326	0.95	1.14	120.0	327	1.62	1.94	120.0
	328	0.25	0.30	120.0	329	0.40	0.48	120.0	330	0.43	0.51	120.0
	331	0.59	0.71	120.0	332	0.54	0.65	120.0	333	0.25	0.20	80.0
	334	0.57	0.68	120.0	335	0.63	0.75	120.0	336	0.28	0.33	120.0
	337	0.29	0.35	120.0	338	0.35	0.42	120.0	348	0.88	3.88	440.0
	350	0.72	3.16	440.0	356	0.16	0.51	325.5	363	0.56	1.81	325.5
	364	1.20	3.89	325.5	369	1.07	3.49	325.5	375	0.16	0.12	80.0
	376	1.90	2.18	114.5	379	1.98	7.11	360.0	381	1.23	3.01	245.5
	382	1.30	4.67	360.0	383	0.83	3.00	360.0	384	0.65	2.35	360.0
	385	1.04	2.56	245.5	386	0.88	3.18	360.0	390	0.95	3.09	325.5
	392	1.56	1.78	114.5	393	1.54	5.56	360.0	396	0.22	0.17	80.0
	397	0.85	1.02	120.0	398	0.99	1.14	114.5	399	1.35	1.55	114.5
	403	1.30	1.49	114.5	407	1.27	4.56	360.0	408	1.34	4.81	360.0
	421	1.54	1.76	114.5	422	1.79	8.50	474.5	423	1.42	1.62	114.5
	424	1.63	7.75	474.5	425	1.57	5.66	360.0	429	1.59	5.71	360.0
	433	1.01	4.42	440.0	434	1.72	6.18	360.0	435	1.68	6.04	360.0
	436	1.30	5.71	440.0	437	2.03	7.31	360.0	438	1.68	6.06	360.0
	439	1.36	5.96	440.0	440	2.06	7.42	360.0	441	1.65	5.93	360.0
	442	0.26	0.21	80.0	443	1.78	6.41	360.0				
105	1	0.18	0.21	120.0	98	0.97	3.50	360.0	99	1.33	4.79	360.0
	100	1.42	5.13	360.0	101	0.18	0.14	80.0	102	0.71	0.85	120.0
	103	0.21	0.17	80.0	104	0.86	1.03	120.0	105	0.78	0.94	120.0
	106	0.64	2.81	440.0	107	1.13	4.08	360.0	108	1.27	4.58	360.0
	109	0.72	3.18	440.0	110	1.30	4.67	360.0	111	1.58	5.68	360.0
	112	1.00	4.42	440.0	113	1.44	5.18	360.0	114	1.32	4.76	360.0
	115	1.76	5.74	325.5	116	1.73	8.20	474.5	117	1.69	8.00	474.5
	118	1.25	4.05	325.5	119	3.80	9.33	245.5	120	1.25	4.50	360.0
	121	0.26	0.21	80.0	122	2.85	7.00	245.5	123	1.14	4.12	360.0
	124	0.23	0.18	80.0	125	1.32	4.74	360.0	126	1.59	5.72	360.0
	127	2.43	4.61	190.0	129	2.03	3.85	190.0	132	2.64	5.02	190.0
	134	1.77	6.37	360.0	135	1.70	3.24	190.0	137	2.47	4.69	190.0
	138	2.15	4.09	190.0	141	1.77	3.37	190.0	144	1.77	3.36	190.0
	145	0.88	3.89	440.0	146	1.41	5.08	360.0	147	1.41	5.07	360.0
	165	1.17	4.19	360.0	204	1.24	4.47	360.0	205	1.75	2.00	114.5
	207	1.90	4.65	245.5	212	2.26	8.12	360.0	215	0.69	2.26	325.5
	223	3.12	11.22	360.0	231	1.71	4.19	245.5	237	1.41	5.09	360.0
	244	0.03	0.02	80.0	245	0.31	0.37	120.0	246	0.40	0.47	120.0

	247	0.48	0.58	120.0	248	0.38	0.45	120.0	249	0.02	0.02	80.0
	254	1.47	5.30	360.0	267	0.88	3.88	440.0	275	1.66	5.41	325.5
	284	1.10	3.58	325.5	296	0.20	0.16	80.0	304	1.23	4.42	360.0
	310	0.57	0.68	120.0	311	1.22	1.47	120.0	312	1.21	1.45	120.0
	313	0.58	0.69	120.0	314	1.21	1.45	120.0	315	1.22	1.46	120.0
	316	0.07	0.08	120.0	317	0.36	0.43	120.0	318	0.41	0.50	120.0
	319	0.49	0.59	120.0	320	0.42	0.51	120.0	321	0.04	0.02	40.0
	322	0.72	0.87	120.0	323	0.82	0.99	120.0	324	1.45	1.75	120.0
	325	0.72	0.87	120.0	326	0.87	1.04	120.0	327	1.49	1.78	120.0
	328	0.24	0.28	120.0	329	0.39	0.47	120.0	330	0.42	0.50	120.0
	331	0.50	0.60	120.0	332	0.46	0.55	120.0	333	0.22	0.17	80.0
	334	0.55	0.66	120.0	335	0.58	0.70	120.0	336	0.26	0.32	120.0
	337	0.25	0.30	120.0	338	0.30	0.36	120.0	348	0.83	3.66	440.0
	350	0.69	3.02	440.0	356	0.16	0.51	325.5	363	0.66	2.16	325.5
	364	1.22	3.98	325.5	369	1.04	3.40	325.5	375	0.15	0.12	80.0
	376	1.76	2.02	114.5	379	1.74	6.26	360.0	381	1.17	2.88	245.5
	382	1.26	4.53	360.0	383	0.79	2.86	360.0	384	0.63	2.27	360.0
	385	1.00	2.44	245.5	386	0.83	2.99	360.0	390	0.83	2.69	325.5
	392	1.50	1.72	114.5	393	1.40	5.03	360.0	396	0.21	0.17	80.0
	397	0.81	0.97	120.0	398	0.71	0.81	114.5	399	1.31	1.50	114.5
	403	1.08	1.24	114.5	407	0.78	2.80	360.0	408	1.23	4.41	360.0
	421	1.26	1.45	114.5	422	1.91	9.04	474.5	423	1.13	1.30	114.5
	424	1.78	8.42	474.5	425	2.23	8.03	360.0	429	1.50	5.40	360.0
	433	0.97	4.26	440.0	434	1.63	5.87	360.0	435	1.57	5.67	360.0
	436	1.26	5.56	440.0	437	1.95	7.03	360.0	438	1.57	5.65	360.0
	439	1.32	5.82	440.0	440	1.98	7.14	360.0	441	1.53	5.51	360.0
	442	0.25	0.20	80.0	443	1.70	6.12	360.0				
106	1	0.12	0.15	120.0	98	0.77	2.76	360.0	99	0.80	2.88	360.0
	100	0.98	3.53	360.0	101	0.12	0.10	80.0	102	0.54	0.64	120.0
	103	0.14	0.12	80.0	104	0.60	0.73	120.0	105	0.58	0.69	120.0
	106	0.43	1.87	440.0	107	0.78	2.81	360.0	108	0.89	3.22	360.0
	109	0.45	1.99	440.0	110	0.86	3.10	360.0	111	1.02	3.66	360.0
	112	0.66	2.88	440.0	113	0.98	3.53	360.0	114	0.81	2.93	360.0
	115	1.73	5.63	325.5	116	0.85	4.04	474.5	117	0.76	3.60	474.5
	118	1.86	6.06	325.5	119	0.57	1.40	245.5	120	0.67	2.41	360.0
	121	0.38	0.31	80.0	122	0.56	1.37	245.5	123	0.69	2.48	360.0
	124	0.12	0.10	80.0	125	0.86	3.09	360.0	126	0.99	3.56	360.0
	127	1.59	3.02	190.0	129	1.38	2.62	190.0	132	1.56	2.96	190.0
	134	0.95	3.43	360.0	135	0.82	1.55	190.0	137	1.30	2.47	190.0
	138	1.27	2.42	190.0	141	1.12	2.13	190.0	144	1.10	2.09	190.0
	145	0.54	2.37	440.0	146	0.92	3.31	360.0	147	0.92	3.31	360.0
	165	0.96	3.44	360.0	204	0.82	2.96	360.0	205	2.93	3.35	114.5
	207	1.06	2.59	245.5	212	0.78	2.80	360.0	215	1.19	3.87	325.5
	223	0.97	3.49	360.0	231	0.95	2.33	245.5	237	0.91	3.28	360.0
	244	0.07	0.06	80.0	245	0.26	0.31	120.0	246	0.32	0.38	120.0
	247	0.35	0.42	120.0	248	0.27	0.32	120.0	249	0.01	9.90e-03	80.0
	254	1.02	3.68	360.0	267	0.45	1.99	440.0	275	1.72	5.60	325.5
	284	1.85	6.02	325.5	296	0.15	0.12	80.0	304	0.82	2.96	360.0
	310	0.40	0.48	120.0	311	0.87	1.04	120.0	312	0.89	1.07	120.0
	313	0.40	0.48	120.0	314	0.85	1.02	120.0	315	0.88	1.06	120.0
	316	0.13	0.16	120.0	317	0.29	0.35	120.0	318	0.33	0.39	120.0
	319	0.36	0.43	120.0	320	0.31	0.37	120.0	321	0.02	9.90e-03	40.0
	322	0.51	0.61	120.0	323	0.60	0.73	120.0	324	1.04	1.25	120.0
	325	0.50	0.60	120.0	326	0.62	0.74	120.0	327	1.06	1.27	120.0
	328	0.13	0.15	120.0	329	0.31	0.37	120.0	330	0.33	0.40	120.0
	331	0.37	0.44	120.0	332	0.33	0.40	120.0	333	0.15	0.12	80.0
	334	0.40	0.48	120.0	335	0.41	0.49	120.0	336	0.22	0.26	120.0
	337	0.18	0.22	120.0	338	0.22	0.26	120.0	348	0.66	2.88	440.0
	350	0.43	1.88	440.0	356	0.19	0.62	325.5	363	0.36	1.17	325.5
	364	0.64	2.07	325.5	369	0.56	1.82	325.5	375	0.30	0.24	80.0
	376	1.04	1.19	114.5	379	1.23	4.42	360.0	381	0.58	1.43	245.5
	382	0.81	2.92	360.0	383	0.52	1.86	360.0	384	0.51	1.82	360.0
	385	1.48	3.64	245.5	386	0.50	1.80	360.0	390	0.73	2.38	325.5
	392	0.81	0.93	114.5	393	0.78	2.81	360.0	396	0.14	0.11	80.0
	397	0.58	0.69	120.0	398	0.67	0.76	114.5	399	2.00	2.29	114.5
	403	0.84	0.96	114.5	407	0.87	3.12	360.0	408	0.83	2.97	360.0
	421	0.91	1.04	114.5	422	0.83	3.96	474.5	423	0.86	0.98	114.5
	424	0.74	3.50	474.5	425	0.66	2.39	360.0	429	0.98	3.51	360.0
	433	0.62	2.75	440.0	434	1.09	3.92	360.0	435	1.07	3.85	360.0
	436	0.80	3.54	440.0	437	1.30	4.67	360.0	438	1.10	3.96	360.0
	439	0.85	3.72	440.0	440	1.32	4.76	360.0	441	1.08	3.87	360.0
	442	0.21	0.17	80.0	443	1.14	4.11	360.0				
107	1	0.11	0.14	120.0	98	0.71	2.57	360.0	99	0.72	2.61	360.0
	100	0.80	2.87	360.0	101	0.16	0.13	80.0	102	0.45	0.54	120.0
	103	0.11	0.09	80.0	104	0.46	0.55	120.0	105	0.41	0.50	120.0
	106	0.33	1.44	440.0	107	0.60	2.15	360.0	108	0.69	2.49	360.0
	109	0.36	1.58	440.0	110	0.66	2.37	360.0	111	0.82	2.97	360.0

	112	0.45	2.00	440.0	113	0.76	2.73	360.0	114	0.77	2.77	360.0
	115	1.02	3.33	325.5	116	1.04	4.94	474.5	117	0.93	4.41	474.5
	118	1.53	4.97	325.5	119	0.90	2.20	245.5	120	0.67	2.40	360.0
	121	0.37	0.29	80.0	122	0.55	1.34	245.5	123	0.82	2.94	360.0
	124	0.15	0.12	80.0	125	0.83	2.98	360.0	126	1.00	3.61	360.0
	127	1.44	2.74	190.0	129	1.29	2.45	190.0	132	1.40	2.67	190.0
	134	0.96	3.46	360.0	135	0.73	1.38	190.0	137	1.41	2.68	190.0
	138	1.41	2.68	190.0	141	1.10	2.09	190.0	144	1.25	2.37	190.0
	145	0.52	2.29	440.0	146	0.88	3.16	360.0	147	0.98	3.52	360.0
	165	0.54	1.95	360.0	204	0.92	3.31	360.0	205	2.40	2.75	114.5
	207	1.05	2.57	245.5	212	0.47	1.70	360.0	215	1.09	3.54	325.5
	223	0.34	1.23	360.0	231	1.00	2.46	245.5	237	0.96	3.47	360.0
	244	0.05	0.04	80.0	245	0.24	0.29	120.0	246	0.31	0.37	120.0
	247	0.24	0.29	120.0	248	0.19	0.23	120.0	249	0.01	9.66e-03	80.0
	254	0.89	3.20	360.0	267	0.41	1.80	440.0	275	0.98	3.18	325.5
	284	1.50	4.87	325.5	296	0.10	0.08	80.0	304	0.67	2.42	360.0
	310	0.32	0.38	120.0	311	0.70	0.84	120.0	312	0.71	0.85	120.0
	313	0.30	0.36	120.0	314	0.65	0.79	120.0	315	0.67	0.80	120.0
	316	0.12	0.14	120.0	317	0.28	0.34	120.0	318	0.33	0.39	120.0
	319	0.25	0.29	120.0	320	0.21	0.25	120.0	321	0.02	9.66e-03	40.0
	322	0.40	0.48	120.0	323	0.50	0.60	120.0	324	0.87	1.05	120.0
	325	0.38	0.45	120.0	326	0.47	0.56	120.0	327	0.85	1.01	120.0
	328	0.13	0.16	120.0	329	0.31	0.37	120.0	330	0.34	0.40	120.0
	331	0.25	0.30	120.0	332	0.23	0.27	120.0	333	0.11	0.09	80.0
	334	0.33	0.40	120.0	335	0.30	0.36	120.0	336	0.21	0.25	120.0
	337	0.12	0.14	120.0	338	0.15	0.17	120.0	348	1.25	5.48	440.0
	350	0.46	2.03	440.0	356	0.28	0.93	325.5	363	0.58	1.89	325.5
	364	0.64	2.10	325.5	369	0.40	1.32	325.5	375	0.32	0.25	80.0
	376	0.69	0.79	114.5	379	1.40	5.05	360.0	381	0.53	1.31	245.5
	382	0.69	2.49	360.0	383	0.42	1.51	360.0	384	0.45	1.61	360.0
	385	1.31	3.23	245.5	386	0.53	1.91	360.0	390	0.88	2.88	325.5
	392	0.74	0.84	114.5	393	0.77	2.78	360.0	396	0.11	0.09	80.0
	397	0.48	0.57	120.0	398	0.75	0.86	114.5	399	1.83	2.09	114.5
	403	0.85	0.97	114.5	407	0.45	1.61	360.0	408	0.82	2.96	360.0
	421	0.67	0.77	114.5	422	0.88	4.19	474.5	423	0.62	0.71	114.5
	424	0.83	3.95	474.5	425	0.83	2.98	360.0	429	1.02	3.67	360.0
	433	0.64	2.82	440.0	434	1.08	3.87	360.0	435	1.00	3.61	360.0
	436	0.78	3.45	440.0	437	1.23	4.42	360.0	438	0.98	3.53	360.0
	439	0.77	3.37	440.0	440	1.19	4.28	360.0	441	0.96	3.44	360.0
	442	0.15	0.12	80.0	443	0.98	3.52	360.0				
108	1	0.19	0.23	120.0	98	0.90	3.23	360.0	99	1.61	5.78	360.0
	100	1.54	5.53	360.0	101	0.08	0.06	80.0	102	0.67	0.80	120.0
	103	0.19	0.15	80.0	104	0.82	0.98	120.0	105	0.79	0.95	120.0
	106	0.59	2.62	440.0	107	1.11	3.99	360.0	108	1.27	4.59	360.0
	109	0.68	2.99	440.0	110	1.30	4.67	360.0	111	1.54	5.56	360.0
	112	0.91	4.01	440.0	113	1.45	5.21	360.0	114	1.38	4.96	360.0
	115	1.03	3.35	325.5	116	1.67	7.91	474.5	117	1.47	6.96	474.5
	118	0.79	2.57	325.5	119	3.88	9.52	245.5	120	1.08	3.90	360.0
	121	0.17	0.14	80.0	122	3.00	7.36	245.5	123	1.29	4.63	360.0
	124	0.23	0.18	80.0	125	1.50	5.41	360.0	126	1.73	6.21	360.0
	127	2.66	5.05	190.0	129	2.04	3.87	190.0	132	2.56	4.86	190.0
	134	1.47	5.28	360.0	135	1.60	3.04	190.0	137	2.38	4.52	190.0
	138	2.40	4.55	190.0	141	2.01	3.83	190.0	144	1.85	3.52	190.0
	145	1.01	4.44	440.0	146	1.66	5.96	360.0	147	1.62	5.83	360.0
	165	1.45	5.22	360.0	204	1.40	5.05	360.0	205	1.27	1.46	114.5
	207	2.04	5.00	245.5	212	2.43	8.75	360.0	215	0.54	1.77	325.5
	223	3.07	11.05	360.0	231	1.82	4.46	245.5	237	1.56	5.63	360.0
	244	0.04	0.03	80.0	245	0.29	0.34	120.0	246	0.36	0.43	120.0
	247	0.52	0.62	120.0	248	0.40	0.48	120.0	249	0.02	0.01	80.0
	254	1.63	5.88	360.0	267	0.81	3.55	440.0	275	0.93	3.02	325.5
	284	0.65	2.12	325.5	296	0.22	0.18	80.0	304	1.29	4.63	360.0
	310	0.51	0.61	120.0	311	1.13	1.36	120.0	312	1.17	1.40	120.0
	313	0.52	0.62	120.0	314	1.15	1.38	120.0	315	1.21	1.45	120.0
	316	0.07	0.08	120.0	317	0.33	0.39	120.0	318	0.37	0.45	120.0
	319	0.54	0.65	120.0	320	0.46	0.55	120.0	321	0.04	0.01	40.0
	322	0.65	0.77	120.0	323	0.77	0.92	120.0	324	1.44	1.72	120.0
	325	0.66	0.79	120.0	326	0.85	1.02	120.0	327	1.49	1.79	120.0
	328	0.23	0.27	120.0	329	0.35	0.42	120.0	330	0.38	0.45	120.0
	331	0.55	0.65	120.0	332	0.50	0.60	120.0	333	0.23	0.18	80.0
	334	0.49	0.59	120.0	335	0.55	0.66	120.0	336	0.25	0.29	120.0
	337	0.27	0.32	120.0	338	0.32	0.39	120.0	348	1.47	6.45	440.0
	350	0.82	3.59	440.0	356	0.24	0.79	325.5	363	0.67	2.18	325.5
	364	1.29	4.19	325.5	369	1.13	3.67	325.5	375	0.16	0.13	80.0
	376	1.99	2.28	114.5	379	2.50	8.98	360.0	381	1.29	3.16	245.5
	382	1.22	4.40	360.0	383	0.81	2.93	360.0	384	0.57	2.07	360.0
	385	0.87	2.14	245.5	386	0.92	3.31	360.0	390	1.23	3.99	325.5
	392	1.59	1.82	114.5	393	1.71	6.14	360.0	396	0.19	0.15	80.0

	397	0.74	0.89	120.0	398	1.15	1.32	114.5	399	1.15	1.32	114.5
	403	1.42	1.62	114.5	407	1.58	5.68	360.0	408	1.49	5.38	360.0
	421	1.56	1.78	114.5	422	1.64	7.77	474.5	423	1.45	1.65	114.5
	424	1.47	6.99	474.5	425	1.31	4.72	360.0	429	1.76	6.33	360.0
	433	1.09	4.80	440.0	434	1.84	6.62	360.0	435	1.77	6.36	360.0
	436	1.33	5.86	440.0	437	2.08	7.49	360.0	438	1.74	6.25	360.0
	439	1.32	5.80	440.0	440	2.04	7.35	360.0	441	1.71	6.14	360.0
	442	0.27	0.21	80.0	443	1.73	6.23	360.0				
109	1	0.18	0.22	120.0	98	0.85	3.07	360.0	99	1.35	4.87	360.0
	100	1.41	5.07	360.0	101	0.09	0.07	80.0	102	0.62	0.74	120.0
	103	0.18	0.14	80.0	104	0.75	0.90	120.0	105	0.69	0.83	120.0
	106	0.55	2.43	440.0	107	1.00	3.62	360.0	108	1.15	4.14	360.0
	109	0.64	2.80	440.0	110	1.16	4.17	360.0	111	1.43	5.16	360.0
	112	0.87	3.85	440.0	113	1.32	4.76	360.0	114	1.27	4.58	360.0
	115	1.07	3.49	325.5	116	1.69	8.01	474.5	117	1.51	7.16	474.5
	118	0.83	2.71	325.5	119	3.83	9.40	245.5	120	1.01	3.62	360.0
	121	0.18	0.14	80.0	122	2.94	7.21	245.5	123	1.20	4.31	360.0
	124	0.24	0.19	80.0	125	1.36	4.91	360.0	126	1.64	5.89	360.0
	127	2.47	4.69	190.0	129	1.95	3.70	190.0	132	2.49	4.74	190.0
	134	1.62	5.84	360.0	135	1.58	3.00	190.0	137	2.46	4.67	190.0
	138	2.35	4.47	190.0	141	1.91	3.62	190.0	144	1.85	3.52	190.0
	145	0.98	4.30	440.0	146	1.55	5.57	360.0	147	1.54	5.53	360.0
	165	1.01	3.62	360.0	204	1.34	4.81	360.0	205	1.10	1.26	114.5
	207	2.01	4.92	245.5	212	2.23	8.04	360.0	215	0.54	1.76	325.5
	223	2.93	10.55	360.0	231	1.78	4.37	245.5	237	1.48	5.33	360.0
	244	0.02	0.02	80.0	245	0.27	0.32	120.0	246	0.34	0.41	120.0
	247	0.44	0.52	120.0	248	0.34	0.41	120.0	249	0.02	0.02	80.0
	254	1.51	5.44	360.0	267	0.76	3.37	440.0	275	0.92	3.00	325.5
	284	0.63	2.06	325.5	296	0.20	0.16	80.0	304	1.21	4.34	360.0
	310	0.48	0.58	120.0	311	1.07	1.28	120.0	312	1.07	1.28	120.0
	313	0.49	0.59	120.0	314	1.06	1.27	120.0	315	1.09	1.30	120.0
	316	0.05	0.07	120.0	317	0.31	0.37	120.0	318	0.36	0.43	120.0
	319	0.45	0.54	120.0	320	0.38	0.46	120.0	321	0.04	0.02	40.0
	322	0.62	0.74	120.0	323	0.72	0.87	120.0	324	1.33	1.60	120.0
	325	0.62	0.74	120.0	326	0.77	0.92	120.0	327	1.36	1.63	120.0
	328	0.21	0.25	120.0	329	0.34	0.41	120.0	330	0.36	0.44	120.0
	331	0.45	0.54	120.0	332	0.42	0.50	120.0	333	0.20	0.16	80.0
	334	0.47	0.56	120.0	335	0.51	0.61	120.0	336	0.23	0.28	120.0
	337	0.22	0.27	120.0	338	0.27	0.32	120.0	348	1.42	6.23	440.0
	350	0.78	3.45	440.0	356	0.25	0.80	325.5	363	0.77	2.52	325.5
	364	1.32	4.30	325.5	369	1.10	3.59	325.5	375	0.16	0.13	80.0
	376	1.84	2.11	114.5	379	2.15	7.74	360.0	381	1.23	3.02	245.5
	382	1.18	4.25	360.0	383	0.77	2.79	360.0	384	0.55	1.98	360.0
	385	0.81	1.99	245.5	386	0.87	3.13	360.0	390	1.06	3.46	325.5
	392	1.54	1.76	114.5	393	1.52	5.47	360.0	396	0.18	0.14	80.0
	397	0.70	0.84	120.0	398	0.92	1.06	114.5	399	1.10	1.26	114.5
	403	1.22	1.40	114.5	407	0.93	3.36	360.0	408	1.38	4.98	360.0
	421	1.27	1.45	114.5	422	1.75	8.32	474.5	423	1.14	1.31	114.5
	424	1.62	7.69	474.5	425	1.84	6.61	360.0	429	1.67	6.02	360.0
	433	1.05	4.64	440.0	434	1.75	6.31	360.0	435	1.66	5.98	360.0
	436	1.30	5.71	440.0	437	2.00	7.21	360.0	438	1.62	5.84	360.0
	439	1.29	5.65	440.0	440	1.96	7.06	360.0	441	1.59	5.71	360.0
	442	0.27	0.21	80.0	443	1.65	5.93	360.0				
110	1	0.13	0.15	120.0	98	0.72	2.59	360.0	99	0.72	2.60	360.0
	100	0.92	3.33	360.0	101	0.15	0.12	80.0	102	0.47	0.56	120.0
	103	0.12	0.09	80.0	104	0.52	0.63	120.0	105	0.51	0.61	120.0
	106	0.37	1.63	440.0	107	0.70	2.51	360.0	108	0.81	2.92	360.0
	109	0.40	1.77	440.0	110	0.79	2.84	360.0	111	0.94	3.37	360.0
	112	0.49	2.16	440.0	113	0.88	3.17	360.0	114	0.88	3.15	360.0
	115	1.00	3.26	325.5	116	1.04	4.91	474.5	117	0.92	4.36	474.5
	118	1.53	4.98	325.5	119	0.88	2.15	245.5	120	0.76	2.73	360.0
	121	0.36	0.29	80.0	122	0.56	1.38	245.5	123	0.90	3.24	360.0
	124	0.14	0.11	80.0	125	0.96	3.45	360.0	126	1.09	3.92	360.0
	127	1.63	3.11	190.0	129	1.35	2.57	190.0	132	1.45	2.76	190.0
	134	0.84	3.02	360.0	135	0.76	1.44	190.0	137	1.33	2.53	190.0
	138	1.46	2.77	190.0	141	1.21	2.30	190.0	144	1.26	2.40	190.0
	145	0.55	2.43	440.0	146	0.99	3.57	360.0	147	1.05	3.79	360.0
	165	0.94	3.38	360.0	204	0.99	3.57	360.0	205	2.47	2.83	114.5
	207	1.06	2.61	245.5	212	0.73	2.63	360.0	215	1.08	3.53	325.5
	223	0.65	2.35	360.0	231	1.02	2.51	245.5	237	1.04	3.76	360.0
	244	0.07	0.05	80.0	245	0.23	0.27	120.0	246	0.28	0.34	120.0
	247	0.32	0.38	120.0	248	0.24	0.29	120.0	249	0.01	8.99e-03	80.0
	254	1.01	3.63	360.0	267	0.45	1.98	440.0	275	0.98	3.20	325.5
	284	1.51	4.93	325.5	296	0.13	0.10	80.0	304	0.75	2.71	360.0
	310	0.33	0.39	120.0	311	0.75	0.90	120.0	312	0.79	0.94	120.0
	313	0.33	0.39	120.0	314	0.74	0.89	120.0	315	0.79	0.94	120.0
	316	0.12	0.14	120.0	317	0.26	0.31	120.0	318	0.29	0.35	120.0

	319	0.33	0.39	120.0	320	0.28	0.33	120.0	321	0.02	8.99e-03	40.0
	322	0.42	0.51	120.0	323	0.53	0.63	120.0	324	0.96	1.15	120.0
	325	0.41	0.50	120.0	326	0.54	0.65	120.0	327	0.97	1.17	120.0
	328	0.11	0.13	120.0	329	0.28	0.33	120.0	330	0.29	0.35	120.0
	331	0.33	0.40	120.0	332	0.30	0.37	120.0	333	0.14	0.11	80.0
	334	0.34	0.41	120.0	335	0.35	0.41	120.0	336	0.19	0.23	120.0
	337	0.16	0.19	120.0	338	0.20	0.24	120.0	348	1.29	5.69	440.0
	350	0.49	2.17	440.0	356	0.28	0.91	325.5	363	0.49	1.58	325.5
	364	0.59	1.90	325.5	369	0.43	1.39	325.5	375	0.32	0.26	80.0
	376	0.89	1.02	114.5	379	1.82	6.56	360.0	381	0.59	1.44	245.5
	382	0.73	2.63	360.0	383	0.46	1.65	360.0	384	0.45	1.62	360.0
	385	1.35	3.31	245.5	386	0.58	2.08	360.0	390	1.08	3.51	325.5
	392	0.78	0.89	114.5	393	1.00	3.58	360.0	396	0.12	0.09	80.0
	397	0.50	0.60	120.0	398	0.93	1.06	114.5	399	1.87	2.14	114.5
	403	1.01	1.16	114.5	407	1.19	4.28	360.0	408	0.93	3.36	360.0
	421	0.98	1.12	114.5	422	0.79	3.74	474.5	423	0.94	1.08	114.5
	424	0.71	3.39	474.5	425	0.62	2.23	360.0	429	1.10	3.95	360.0
	433	0.68	2.98	440.0	434	1.16	4.18	360.0	435	1.10	3.96	360.0
	436	0.82	3.59	440.0	437	1.30	4.70	360.0	438	1.09	3.93	360.0
	439	0.80	3.51	440.0	440	1.27	4.56	360.0	441	1.07	3.85	360.0
	442	0.15	0.12	80.0	443	1.06	3.81	360.0				
111	1	0.11	0.14	120.0	98	0.68	2.45	360.0	99	0.65	2.34	360.0
	100	0.81	2.93	360.0	101	0.10	0.08	80.0	102	0.44	0.52	120.0
	103	0.11	0.08	80.0	104	0.45	0.54	120.0	105	0.40	0.48	120.0
	106	0.31	1.38	440.0	107	0.57	2.07	360.0	108	0.67	2.41	360.0
	109	0.34	1.50	440.0	110	0.63	2.25	360.0	111	0.79	2.85	360.0
	112	0.47	2.07	440.0	113	0.75	2.71	360.0	114	0.72	2.59	360.0
	115	1.02	3.31	325.5	116	0.97	4.60	474.5	117	0.83	3.96	474.5
	118	1.46	4.75	325.5	119	0.64	1.57	245.5	120	0.59	2.13	360.0
	121	0.36	0.29	80.0	122	0.48	1.19	245.5	123	0.77	2.77	360.0
	124	0.15	0.12	80.0	125	0.81	2.91	360.0	126	0.98	3.54	360.0
	127	1.43	2.73	190.0	129	1.26	2.40	190.0	132	1.39	2.63	190.0
	134	0.94	3.40	360.0	135	0.72	1.37	190.0	137	1.41	2.67	190.0
	138	1.41	2.69	190.0	141	1.12	2.12	190.0	144	1.21	2.30	190.0
	145	0.56	2.45	440.0	146	0.91	3.28	360.0	147	0.97	3.51	360.0
	165	0.51	1.84	360.0	204	0.89	3.19	360.0	205	2.31	2.64	114.5
	207	1.10	2.69	245.5	212	0.57	2.04	360.0	215	1.07	3.48	325.5
	223	0.46	1.67	360.0	231	1.01	2.47	245.5	237	0.94	3.37	360.0
	244	0.05	0.04	80.0	245	0.23	0.28	120.0	246	0.30	0.36	120.0
	247	0.23	0.28	120.0	248	0.18	0.22	120.0	249	0.01	9.40e-03	80.0
	254	0.91	3.28	360.0	267	0.35	1.54	440.0	275	0.98	3.18	325.5
	284	1.43	4.66	325.5	296	0.11	0.09	80.0	304	0.69	2.49	360.0
	310	0.31	0.37	120.0	311	0.68	0.81	120.0	312	0.69	0.83	120.0
	313	0.29	0.35	120.0	314	0.64	0.76	120.0	315	0.65	0.78	120.0
	316	0.11	0.14	120.0	317	0.27	0.33	120.0	318	0.32	0.38	120.0
	319	0.24	0.29	120.0	320	0.20	0.24	120.0	321	0.02	9.40e-03	40.0
	322	0.39	0.46	120.0	323	0.49	0.59	120.0	324	0.85	1.02	120.0
	325	0.37	0.44	120.0	326	0.45	0.54	120.0	327	0.83	0.99	120.0
	328	0.12	0.15	120.0	329	0.30	0.36	120.0	330	0.32	0.39	120.0
	331	0.24	0.29	120.0	332	0.22	0.27	120.0	333	0.11	0.08	80.0
	334	0.32	0.38	120.0	335	0.30	0.35	120.0	336	0.20	0.24	120.0
	337	0.12	0.14	120.0	338	0.14	0.17	120.0	348	1.23	5.41	440.0
	350	0.48	2.10	440.0	356	0.20	0.64	325.5	363	0.54	1.77	325.5
	364	0.70	2.29	325.5	369	0.50	1.62	325.5	375	0.31	0.25	80.0
	376	0.83	0.95	114.5	379	1.42	5.13	360.0	381	0.56	1.38	245.5
	382	0.70	2.50	360.0	383	0.44	1.57	360.0	384	0.43	1.56	360.0
	385	1.27	3.13	245.5	386	0.52	1.87	360.0	390	0.90	2.91	325.5
	392	0.77	0.88	114.5	393	0.77	2.78	360.0	396	0.10	0.08	80.0
	397	0.46	0.55	120.0	398	0.72	0.82	114.5	399	1.79	2.04	114.5
	403	0.82	0.94	114.5	407	0.49	1.75	360.0	408	0.85	3.05	360.0
	421	0.65	0.74	114.5	422	0.84	3.98	474.5	423	0.59	0.68	114.5
	424	0.78	3.68	474.5	425	0.85	3.06	360.0	429	1.04	3.75	360.0
	433	0.66	2.89	440.0	434	1.10	3.96	360.0	435	1.03	3.70	360.0
	436	0.79	3.49	440.0	437	1.25	4.49	360.0	438	1.01	3.63	360.0
	439	0.77	3.38	440.0	440	1.20	4.33	360.0	441	0.98	3.54	360.0
	442	0.15	0.12	80.0	443	0.99	3.56	360.0				
112	1	0.19	0.23	120.0	98	0.92	3.29	360.0	99	1.52	5.46	360.0
	100	1.52	5.46	360.0	101	0.14	0.11	80.0	102	0.68	0.82	120.0
	103	0.19	0.15	80.0	104	0.83	1.00	120.0	105	0.80	0.96	120.0
	106	0.61	2.69	440.0	107	1.13	4.08	360.0	108	1.30	4.66	360.0
	109	0.70	3.08	440.0	110	1.33	4.80	360.0	111	1.58	5.69	360.0
	112	0.90	3.96	440.0	113	1.46	5.26	360.0	114	1.42	5.13	360.0
	115	1.04	3.38	325.5	116	1.74	8.26	474.5	117	1.55	7.34	474.5
	118	0.86	2.79	325.5	119	3.60	8.83	245.5	120	1.12	4.03	360.0
	121	0.18	0.14	80.0	122	2.89	7.09	245.5	123	1.33	4.80	360.0
	124	0.23	0.19	80.0	125	1.52	5.49	360.0	126	1.75	6.29	360.0
	127	2.67	5.07	190.0	129	2.06	3.91	190.0	132	2.57	4.89	190.0

	134	1.48	5.34	360.0	135	1.60	3.05	190.0	137	2.38	4.52	190.0
	138	2.39	4.54	190.0	141	2.00	3.80	190.0	144	1.89	3.60	190.0
	145	0.97	4.25	440.0	146	1.62	5.83	360.0	147	1.62	5.83	360.0
	165	1.52	5.49	360.0	204	1.44	5.18	360.0	205	1.36	1.56	114.5
	207	1.98	4.85	245.5	212	2.39	8.60	360.0	215	0.58	1.87	325.5
	223	2.94	10.57	360.0	231	1.81	4.44	245.5	237	1.60	5.75	360.0
	244	0.04	0.03	80.0	245	0.29	0.35	120.0	246	0.37	0.44	120.0
	247	0.53	0.63	120.0	248	0.41	0.49	120.0	249	0.02	0.02	80.0
	254	1.61	5.79	360.0	267	0.87	3.85	440.0	275	0.93	3.02	325.5
	284	0.72	2.33	325.5	296	0.22	0.18	80.0	304	1.26	4.54	360.0
	310	0.51	0.62	120.0	311	1.15	1.38	120.0	312	1.18	1.42	120.0
	313	0.52	0.63	120.0	314	1.16	1.40	120.0	315	1.23	1.47	120.0
	316	0.07	0.08	120.0	317	0.33	0.40	120.0	318	0.38	0.46	120.0
	319	0.54	0.65	120.0	320	0.46	0.55	120.0	321	0.04	0.02	40.0
	322	0.66	0.79	120.0	323	0.78	0.94	120.0	324	1.46	1.75	120.0
	325	0.67	0.80	120.0	326	0.86	1.03	120.0	327	1.51	1.81	120.0
	328	0.23	0.27	120.0	329	0.36	0.43	120.0	330	0.38	0.46	120.0
	331	0.55	0.66	120.0	332	0.50	0.61	120.0	333	0.23	0.19	80.0
	334	0.50	0.60	120.0	335	0.56	0.67	120.0	336	0.25	0.30	120.0
	337	0.27	0.33	120.0	338	0.33	0.39	120.0	348	1.48	6.50	440.0
	350	0.80	3.51	440.0	356	0.16	0.51	325.5	363	0.65	2.10	325.5
	364	1.21	3.93	325.5	369	1.03	3.37	325.5	375	0.17	0.14	80.0
	376	1.86	2.13	114.5	379	2.45	8.83	360.0	381	1.25	3.06	245.5
	382	1.21	4.37	360.0	383	0.79	2.86	360.0	384	0.57	2.06	360.0
	385	0.92	2.26	245.5	386	0.94	3.37	360.0	390	1.21	3.93	325.5
	392	1.55	1.78	114.5	393	1.70	6.13	360.0	396	0.19	0.15	80.0
	397	0.76	0.91	120.0	398	1.19	1.36	114.5	399	1.20	1.37	114.5
	403	1.44	1.65	114.5	407	1.57	5.65	360.0	408	1.47	5.28	360.0
	421	1.58	1.81	114.5	422	1.69	8.00	474.5	423	1.47	1.68	114.5
	424	1.53	7.27	474.5	425	1.28	4.60	360.0	429	1.73	6.23	360.0
	433	1.07	4.72	440.0	434	1.81	6.53	360.0	435	1.74	6.25	360.0
	436	1.32	5.81	440.0	437	2.06	7.41	360.0	438	1.71	6.14	360.0
	439	1.31	5.78	440.0	440	2.03	7.29	360.0	441	1.67	6.03	360.0
	442	0.26	0.21	80.0	443	1.72	6.17	360.0				
113	1	0.18	0.22	120.0	98	0.87	3.15	360.0	99	1.27	4.59	360.0
	100	1.39	5.00	360.0	101	0.15	0.12	80.0	102	0.63	0.75	120.0
	103	0.18	0.14	80.0	104	0.77	0.92	120.0	105	0.70	0.84	120.0
	106	0.57	2.50	440.0	107	1.03	3.71	360.0	108	1.17	4.22	360.0
	109	0.66	2.89	440.0	110	1.19	4.30	360.0	111	1.47	5.29	360.0
	112	0.86	3.79	440.0	113	1.33	4.80	360.0	114	1.32	4.75	360.0
	115	1.09	3.53	325.5	116	1.76	8.37	474.5	117	1.59	7.52	474.5
	118	0.90	2.92	325.5	119	3.55	8.71	245.5	120	1.04	3.74	360.0
	121	0.18	0.15	80.0	122	2.83	6.94	245.5	123	1.24	4.48	360.0
	124	0.24	0.19	80.0	125	1.39	4.99	360.0	126	1.66	5.97	360.0
	127	2.48	4.70	190.0	129	1.97	3.75	190.0	132	2.51	4.77	190.0
	134	1.64	5.90	360.0	135	1.58	3.01	190.0	137	2.46	4.67	190.0
	138	2.35	4.46	190.0	141	1.89	3.60	190.0	144	1.89	3.58	190.0
	145	0.93	4.10	440.0	146	1.51	5.43	360.0	147	1.54	5.54	360.0
	165	1.07	3.83	360.0	204	1.37	4.93	360.0	205	1.20	1.37	114.5
	207	1.94	4.77	245.5	212	2.19	7.89	360.0	215	0.56	1.83	325.5
	223	2.78	10.00	360.0	231	1.77	4.35	245.5	237	1.51	5.44	360.0
	244	0.02	0.02	80.0	245	0.27	0.33	120.0	246	0.35	0.42	120.0
	247	0.44	0.53	120.0	248	0.35	0.42	120.0	249	0.02	0.02	80.0
	254	1.49	5.35	360.0	267	0.83	3.67	440.0	275	0.92	3.01	325.5
	284	0.70	2.27	325.5	296	0.19	0.15	80.0	304	1.18	4.25	360.0
	310	0.49	0.59	120.0	311	1.09	1.30	120.0	312	1.09	1.30	120.0
	313	0.50	0.60	120.0	314	1.08	1.29	120.0	315	1.10	1.32	120.0
	316	0.06	0.07	120.0	317	0.32	0.38	120.0	318	0.37	0.44	120.0
	319	0.45	0.54	120.0	320	0.39	0.46	120.0	321	0.04	0.02	40.0
	322	0.63	0.75	120.0	323	0.73	0.88	120.0	324	1.35	1.62	120.0
	325	0.63	0.75	120.0	326	0.78	0.93	120.0	327	1.38	1.66	120.0
	328	0.21	0.26	120.0	329	0.34	0.41	120.0	330	0.37	0.45	120.0
	331	0.46	0.55	120.0	332	0.42	0.51	120.0	333	0.20	0.16	80.0
	334	0.48	0.57	120.0	335	0.51	0.62	120.0	336	0.23	0.28	120.0
	337	0.22	0.27	120.0	338	0.27	0.33	120.0	348	1.43	6.28	440.0
	350	0.77	3.37	440.0	356	0.16	0.52	325.5	363	0.75	2.45	325.5
	364	1.24	4.05	325.5	369	1.01	3.28	325.5	375	0.16	0.13	80.0
	376	1.71	1.96	114.5	379	2.10	7.55	360.0	381	1.19	2.93	245.5
	382	1.17	4.22	360.0	383	0.75	2.72	360.0	384	0.55	1.98	360.0
	385	0.86	2.11	245.5	386	0.89	3.19	360.0	390	1.04	3.39	325.5
	392	1.50	1.71	114.5	393	1.51	5.44	360.0	396	0.18	0.14	80.0
	397	0.72	0.86	120.0	398	0.96	1.10	114.5	399	1.15	1.32	114.5
	403	1.25	1.43	114.5	407	0.90	3.24	360.0	408	1.36	4.88	360.0
	421	1.29	1.48	114.5	422	1.80	8.54	474.5	423	1.17	1.34	114.5
	424	1.67	7.93	474.5	425	1.82	6.55	360.0	429	1.65	5.93	360.0
	433	1.04	4.56	440.0	434	1.73	6.21	360.0	435	1.63	5.88	360.0
	436	1.29	5.66	440.0	437	1.98	7.13	360.0	438	1.59	5.73	360.0

	439	1.28	5.63	440.0	440	1.95	7.00	360.0	441	1.56	5.60	360.0
	442	0.26	0.21	80.0	443	1.63	5.88	360.0				
114	1	0.13	0.15	120.0	98	0.69	2.48	360.0	99	0.70	2.52	360.0
	100	0.94	3.39	360.0	101	0.10	0.08	80.0	102	0.46	0.55	120.0
	103	0.12	0.09	80.0	104	0.51	0.61	120.0	105	0.50	0.59	120.0
	106	0.35	1.56	440.0	107	0.67	2.42	360.0	108	0.79	2.85	360.0
	109	0.38	1.69	440.0	110	0.76	2.72	360.0	111	0.90	3.25	360.0
	112	0.51	2.23	440.0	113	0.87	3.13	360.0	114	0.83	2.98	360.0
	115	1.00	3.25	325.5	116	0.97	4.58	474.5	117	0.82	3.90	474.5
	118	1.46	4.75	325.5	119	0.63	1.56	245.5	120	0.68	2.46	360.0
	121	0.35	0.28	80.0	122	0.51	1.26	245.5	123	0.85	3.07	360.0
	124	0.14	0.11	80.0	125	0.94	3.38	360.0	126	1.07	3.85	360.0
	127	1.63	3.09	190.0	129	1.33	2.52	190.0	132	1.44	2.73	190.0
	134	0.82	2.95	360.0	135	0.75	1.42	190.0	137	1.33	2.52	190.0
	138	1.46	2.78	190.0	141	1.22	2.33	190.0	144	1.21	2.31	190.0
	145	0.59	2.60	440.0	146	1.02	3.68	360.0	147	1.05	3.79	360.0
	165	0.87	3.12	360.0	204	0.95	3.42	360.0	205	2.38	2.72	114.5
	207	1.11	2.74	245.5	212	0.71	2.56	360.0	215	1.06	3.44	325.5
	223	0.68	2.46	360.0	231	1.03	2.52	245.5	237	1.01	3.65	360.0
	244	0.06	0.05	80.0	245	0.22	0.27	120.0	246	0.27	0.33	120.0
	247	0.31	0.37	120.0	248	0.24	0.29	120.0	249	0.01	8.73e-03	80.0
	254	1.03	3.72	360.0	267	0.39	1.72	440.0	275	0.98	3.19	325.5
	284	1.45	4.72	325.5	296	0.13	0.11	80.0	304	0.77	2.78	360.0
	310	0.32	0.38	120.0	311	0.73	0.88	120.0	312	0.77	0.92	120.0
	313	0.32	0.38	120.0	314	0.72	0.86	120.0	315	0.77	0.92	120.0
	316	0.12	0.14	120.0	317	0.25	0.30	120.0	318	0.28	0.34	120.0
	319	0.32	0.39	120.0	320	0.27	0.33	120.0	321	0.02	8.73e-03	40.0
	322	0.41	0.49	120.0	323	0.51	0.62	120.0	324	0.94	1.12	120.0
	325	0.40	0.48	120.0	326	0.53	0.64	120.0	327	0.95	1.14	120.0
	328	0.11	0.13	120.0	329	0.27	0.32	120.0	330	0.28	0.34	120.0
	331	0.33	0.39	120.0	332	0.30	0.36	120.0	333	0.14	0.11	80.0
	334	0.33	0.39	120.0	335	0.34	0.40	120.0	336	0.19	0.23	120.0
	337	0.16	0.19	120.0	338	0.19	0.23	120.0	348	1.28	5.62	440.0
	350	0.51	2.24	440.0	356	0.19	0.63	325.5	363	0.44	1.43	325.5
	364	0.66	2.13	325.5	369	0.52	1.70	325.5	375	0.31	0.25	80.0
	376	1.00	1.15	114.5	379	1.84	6.61	360.0	381	0.62	1.51	245.5
	382	0.74	2.65	360.0	383	0.48	1.71	360.0	384	0.44	1.58	360.0
	385	1.31	3.21	245.5	386	0.56	2.03	360.0	390	1.09	3.54	325.5
	392	0.81	0.93	114.5	393	0.99	3.56	360.0	396	0.11	0.09	80.0
	397	0.49	0.58	120.0	398	0.89	1.02	114.5	399	1.83	2.09	114.5
	403	0.99	1.13	114.5	407	1.19	4.28	360.0	408	0.96	3.45	360.0
	421	0.97	1.11	114.5	422	0.73	3.48	474.5	423	0.92	1.06	114.5
	424	0.64	3.04	474.5	425	0.67	2.39	360.0	429	1.12	4.04	360.0
	433	0.69	3.05	440.0	434	1.18	4.26	360.0	435	1.13	4.06	360.0
	436	0.83	3.64	440.0	437	1.32	4.77	360.0	438	1.12	4.03	360.0
	439	0.80	3.53	440.0	440	1.28	4.62	360.0	441	1.10	3.96	360.0
	442	0.15	0.12	80.0	443	1.07	3.86	360.0				

Cmb	**1000 etaT/h**
	4.67

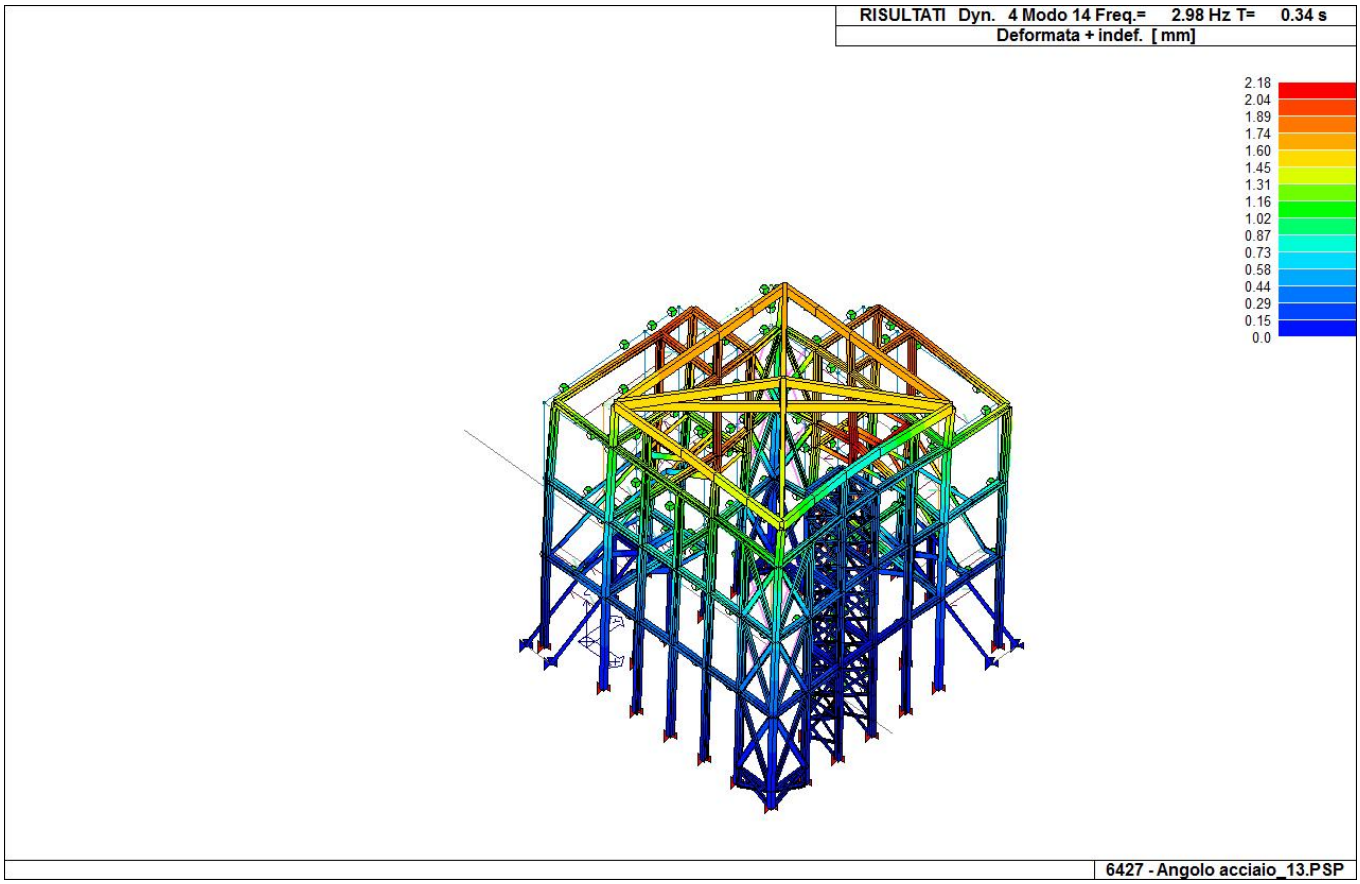


Figura 18: Modo di vibrare in direzione X - CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)

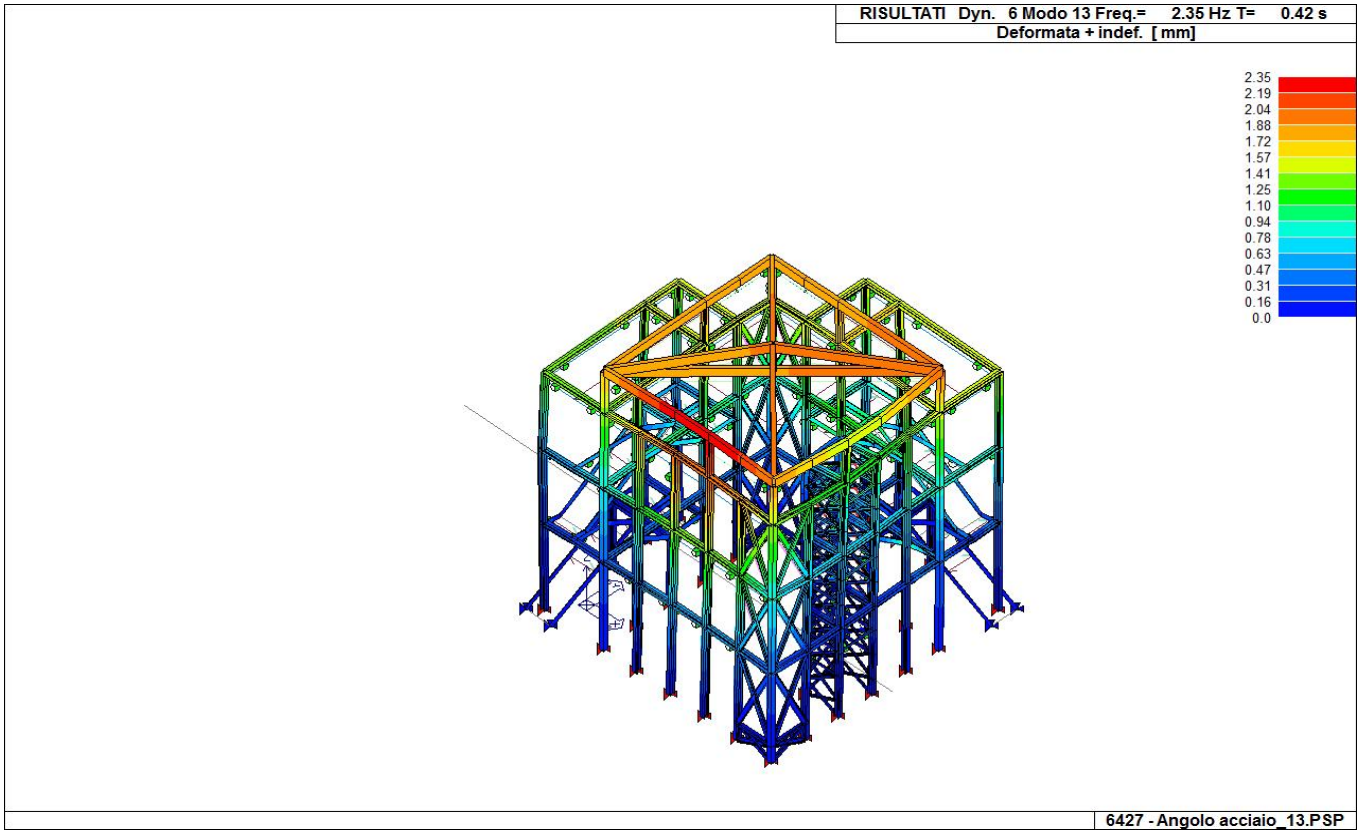


Figura 19: Modo di vibrare in direzione Y - CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)

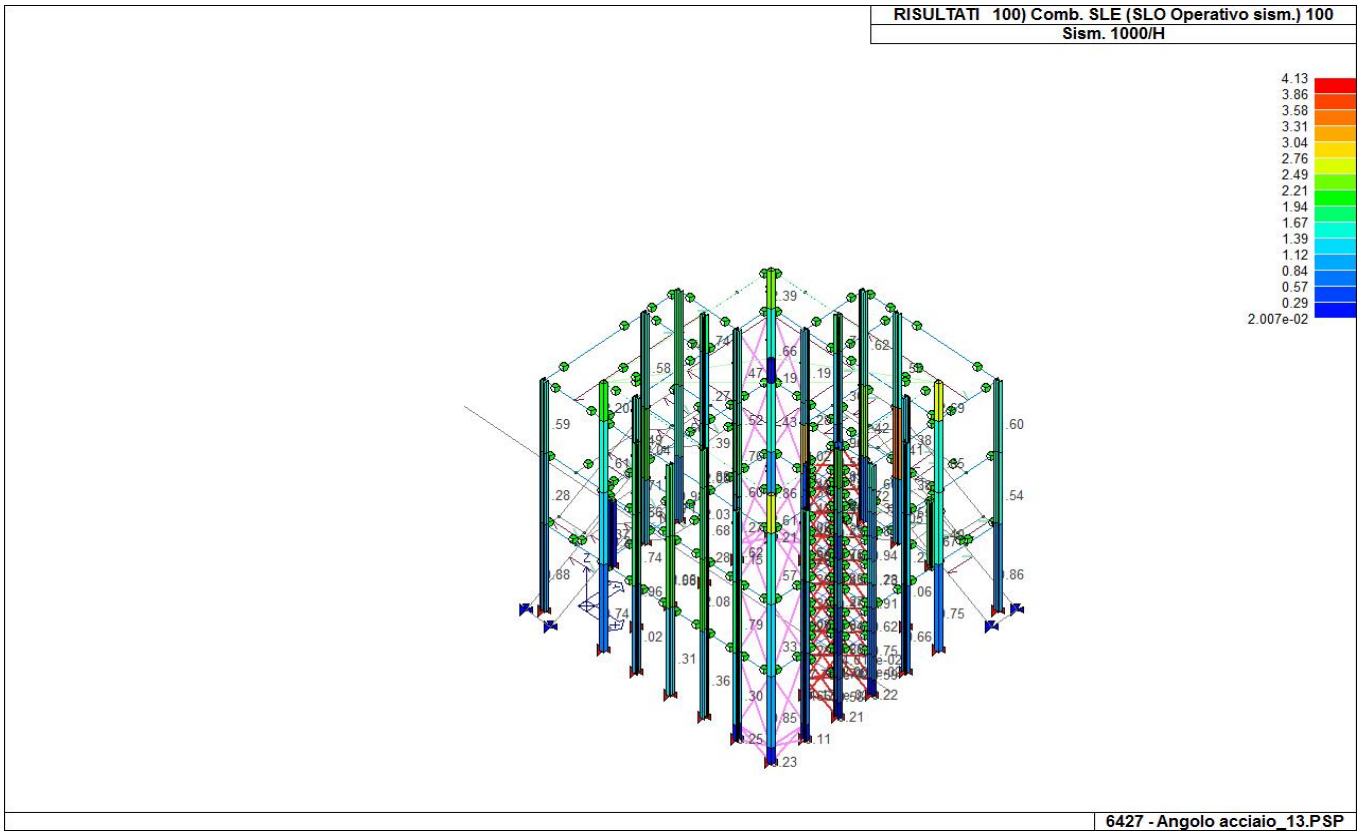


Figura 20:1000/H - Comb. SLE (SLO Operativo sism.) 100

12 CRITERI DI VERIFICA AGLI STATI LIMITE CONSIDERATI

Per il dimensionamento delle strutture sono state eseguite analisi sia allo SLU sia allo SLE, sia di tipo statico che sismico, per controllare l'efficacia della progettazione.

Per quanto riguarda gli elementi trave le verifiche sono condotte in ottemperanza alle NTC 17 Gennaio 2018, oppure seguendo le indicazioni analitiche riportate nella norma tecnica UNI EN 1995-1-1:2005 "Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali - Regole comuni e regole per gli edifici" ; in particolare le verifiche effettuate sono riconducibili ai punti:

NTC 2018

- 4.4.8 Stati limite ultimi
- 4.4.8.1.7 Tensoflessione
- 4.4.8.1.8 Pressoflessione
- 4.4.8.1.11 Taglio e torsione
- 4.4.8.2.1 Elementi inflessi
- 4.4.8.2.2 Elementi compressi

EC5

- 2.2.2 Ultimate limit states
- 2.2.3 Serviceability limit states
- 2.4.1 Design value of material property
- 2.4.3 Design resistances
- 3.1.3 Strength modification (kmod)
- 3.1.4 Deformation modification (kdef)
- 6. Ultimate limit states
- 6.2 Design of cross-sections subjected to combined stresses

- 6.3 Stability of members

Si sottolinea che le cinque verifiche sono espresse dal rapporto tra domanda e capacità, affinché la verifica sia positiva il rapporto deve essere inferiore o uguale a 1. La capacità è affetta dal termine **kmod**, espressione della classe di servizio e della durata dei carichi (si considera a livello di combinazione il caso di carico di minor durata).

Le deformazioni dell' elemento espresse in rapporto ad un millesimo di lunghezza sono rappresentate dal valore istantaneo e dal valore a tempo infinito. Il valore della deformazione a tempo infinito per una combinazione di carichi è ottenuta sommando per ogni caso di carico sia il valore istantaneo che il valore ottenuto dall' aliquota quasi-permanente amplificata del fattore kdef (formula 2.2 e 2.3).

In termini analitici il contributo del caso di carico con coefficiente di combinazione ***Psi*** (diverso da 0) è:

Psi + kdef × Psi2

Per quanto riguarda le verifiche degli elementi in X-lam le verifiche sono condotte in ottemperanza alle NTC 17 Gennaio 2018 seguendo anche le indicazioni analitiche riportate nella norma tecnica UNI EN 1995-1-1:2005 "Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali - Regole comuni e regole per gli edifici" e nella norma tedesca DIN 1052 (D) - 2008.

Utilizzando il riferimento tecnico dell' Università di Monaco "Teilprojekt 15 – TP 15 Flächen aus Brettstapeln, Brettsperrholz und Verbundkonstruktionen" che permette di valutare in modo esaustivo il comportamento del pannello in presenza di significative deformazioni a taglio si è valutata in fase di verifica la migrazione degli sforzi dal "Piano B" al "Piano A" come previsto nell' appendice D parte 3 della norma tedesca DIN 1052 (D) - 2008.

In particolare le verifiche effettuate sono riconducibili a quanto previsto nell' appendice D e al capitolo 10.7 della DIN:

- 10.7.1 (127) tensoflessione
- 10.7.1 (128) pressoflessione
- 10.7.1 (129) taglio torsione
- 10.7.1 (130) trazione e taglio di rotolamento
- 10.7.1 (131) compressione e taglio di rotolamento
- App D. (26) momento torcente di incollaggio

Viene riportata un'ulteriore verifica (Mestek 5.4.5) in cui tutte le tensioni normali sono rapportate alla resistenza di progetto a flessione.

Il programma consente la modellazione di pannelli XLAM con un numero di strati dispari di ugual spessore.

Gli strati sono costituiti da tavole che possono o meno essere incollate lungo il lato lungo.

Gli strati sono caratterizzati dai moduli E0, G0, E90, G90 e Gori, rispettivamente in direzione 0 (parallela alle fibre), 90 (ortogonale alle fibre) e orizzontale.

Per convenzione la direzione 0 del pannello è quella parallela alle fibre del primo (e ultimo) strato. La direzione 0 pertanto ha caratteristiche di resistenza e rigidezza superiore alla direzione 1. Il programma ipotizza che la direzione 0 sia verticale per i setti e inclinata rispetto all' asse X per i gusci (inclinazione settabile da criterio di progetto). In fase di verifica non esiste interazione tra direzione 0 e 1.

La peculiarità del pannello XLAM è data dalla presenza di strati molto deformabili a taglio (G90 è di un ordine di grandezza inferiore a G0) così da invalidare l' ipotesi di conservazione delle sezioni piane. L' appendice D della DIN 1052 (D) - 2008 fornisce indicazioni per la valutazione delle rigidezze e delle tensioni sui pannelli XLAM, anche considerando la cedevolezza a taglio degli strati. In sostanza le azioni di piastra vengono ripartite su due piani ideali A e B mentre le azioni di lastra sono riportate sul piano ideale C. La deformabilità a taglio regola la ripartizione tra i piani A e B. Utilizzando il riferimento tecnico dell' Università di Monaco "Teilprojekt 15 – TP 15 Flächen aus Brettstapeln, Brettsperrholz und Verbundkonstruktionen" si è implementato l' algoritmo di ripartizione indicato al cap. 5.4.2.3 basato sull' analogia del taglio per carico sinusoidale. In base a questa analogia la quota di carico afferente al piano B viene ridotta in funzione delle caratteristiche statiche del pacchetto di strati e della luce del pannello nella direzione di studio.

Per entrambe le direzioni 0 e 1 si avranno 8 componenti di sollecitazione:

- Momento flettente ripartito su piano A e piano B
- Momento torcente ripartito su piano A e piano B
- Taglio ortogonale ripartito su piano A e piano B
- Sforzo normale su piano C
- Taglio membranale su piano C

Inoltre:
nel caso in cui le tavole siano incollate

- il momento di incollaggio è nullo
- il momento torcente viene ripartito sul piano A e B e verificato per la parte competente allo strato e al pannello (quota di Steiner)
- la resistenza al taglio di piano è offerta dall' intero spessore del pannello
- la dimensione "a" di fig. 16 par. 8.9.3 DIN 1052 (D) è identica nelle due direzioni

in caso contrario

- il momento di incollaggio viene computato secondo DIN D.26
- il momento torcente non viene verificato
- la resistenza al taglio di piano è offerta dallo spessore del pannello ridotto del 75%
- E90 DEVE ESSERE ASSUNTO PARI 0 (gli strati esterni si trascurano per tutti gli effetti in direzione debole)
- la dimensione "a" di fig. 16 par. 8.9.3 DIN 1052 (D) è minore in direzione (1)

Le verifiche V.127, V.128, V.545, V129 (ossia le verifiche per le tensioni normali e tangenziali) sono effettuate per gli strati pari in direzione 0 e per gli strati dispari in direzione 1 (ovvero gli strati con E0), le verifiche V130 e V131 sono effettuate per gli strati pari in direzione 1 e per gli strati dispari in direzione 0 (ovvero gli strati con G90).
Ai fini della verifica a taglio di piastra, è consentita una verifica semplificata che affida al piano B l' intero taglio e determina la tensione tangenziale dividendo il taglio per la dimensione "a" di fig. 16 par. 8.9.3.
Il programma prevede a scelta dell' utente questa possibilità.

Si sottolinea che le sei verifiche sono espresse dal rapporto tra domanda e capacità, affinché la verifica sia positiva il rapporto deve essere inferiore o uguale a 1. La capacità è affetta dal termine **kmod**, espressione della classe di servizio e della durata dei carichi (si considera a livello di combinazione il caso di carico di minor durata).

13 PRINCIPALI RISULTATI E SINTESI DELLE VERIFICHE

13.1 RISULTATI ANALISI US 02-L

Di seguito vengono riportati i principali risultati forniti dal programma in termini di configurazione deformate e delle caratteristiche di sollecitazione delle strutture più significative della porzione in X-lam.

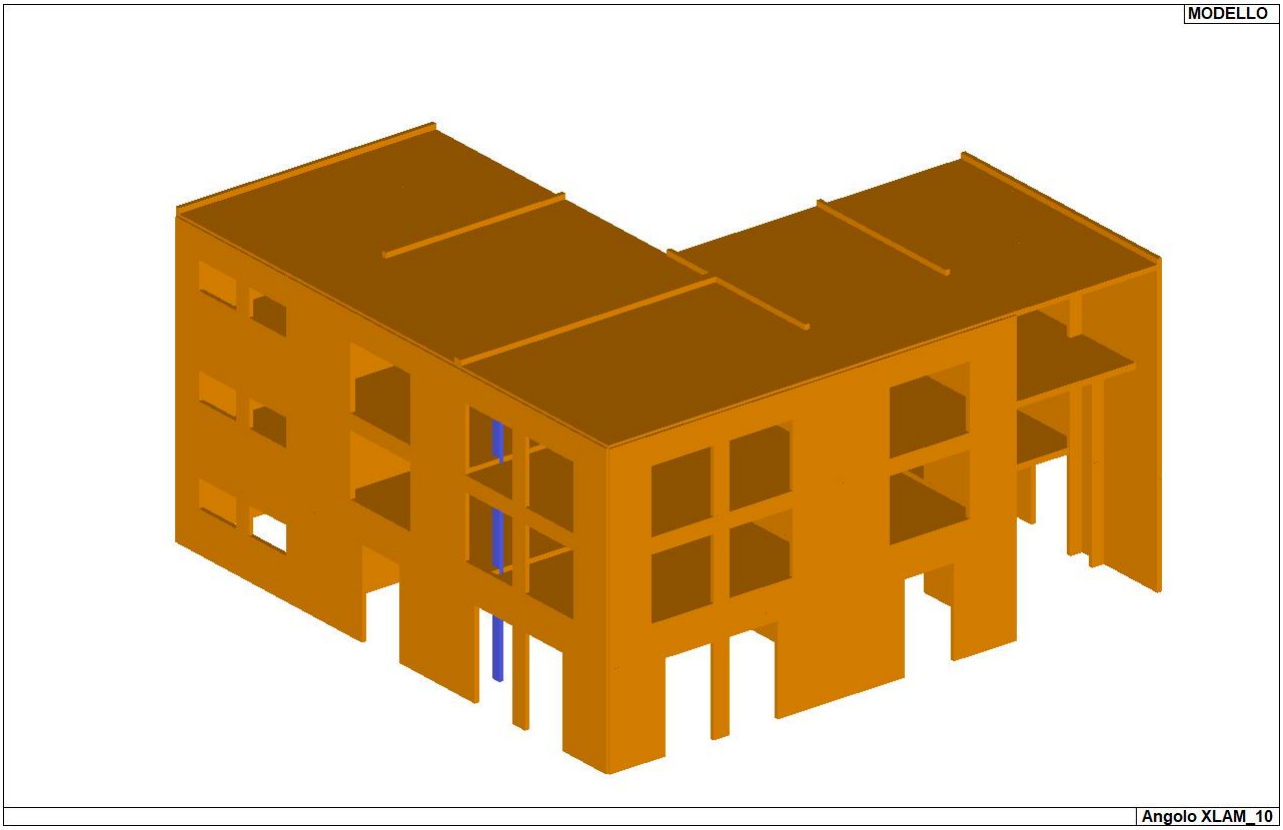
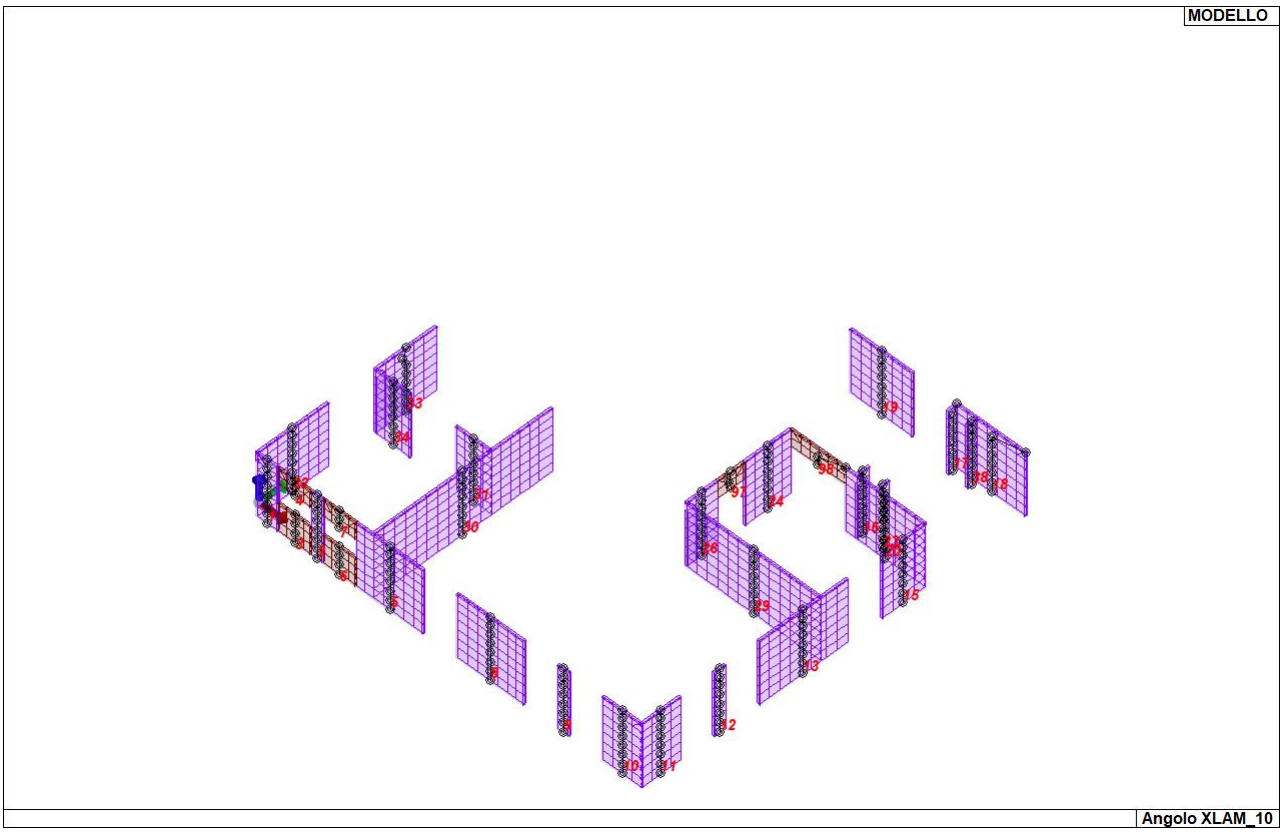


Figura 21: vista solida modello



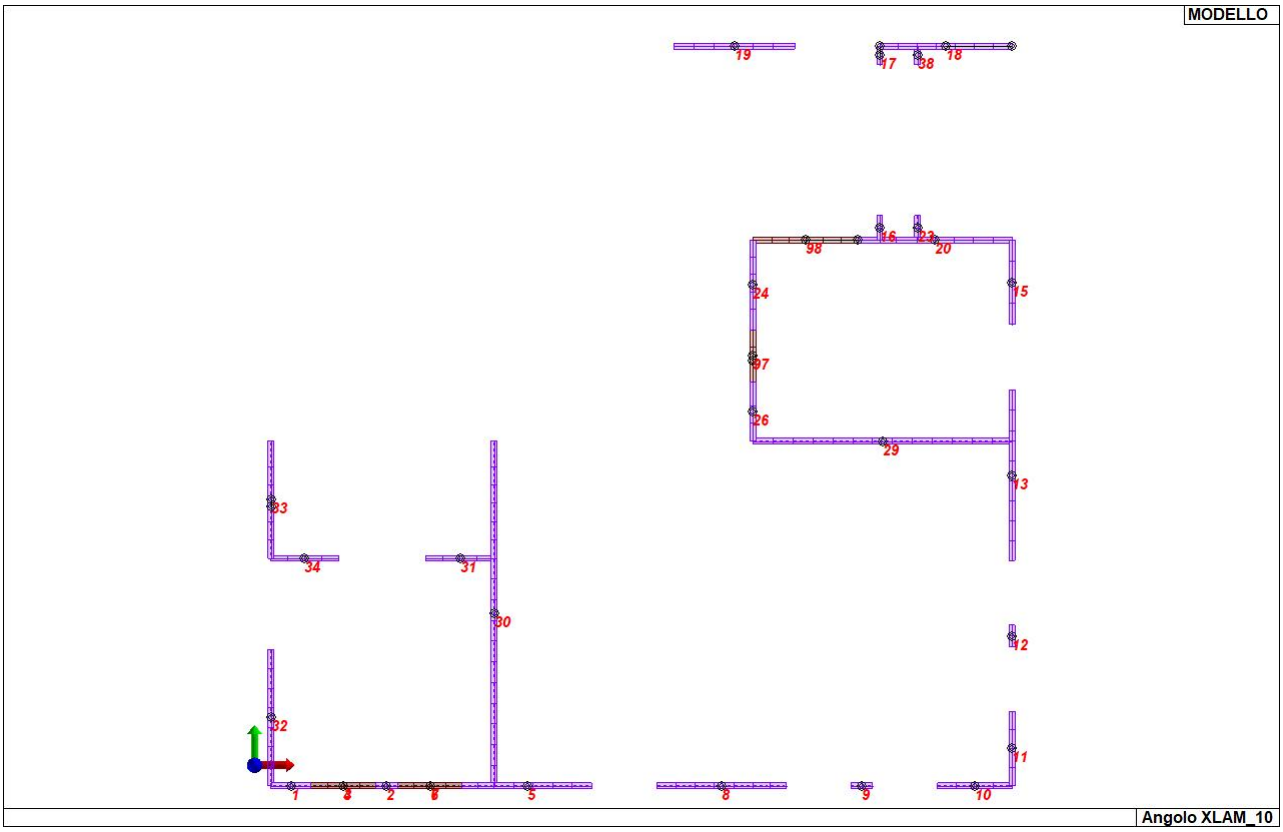
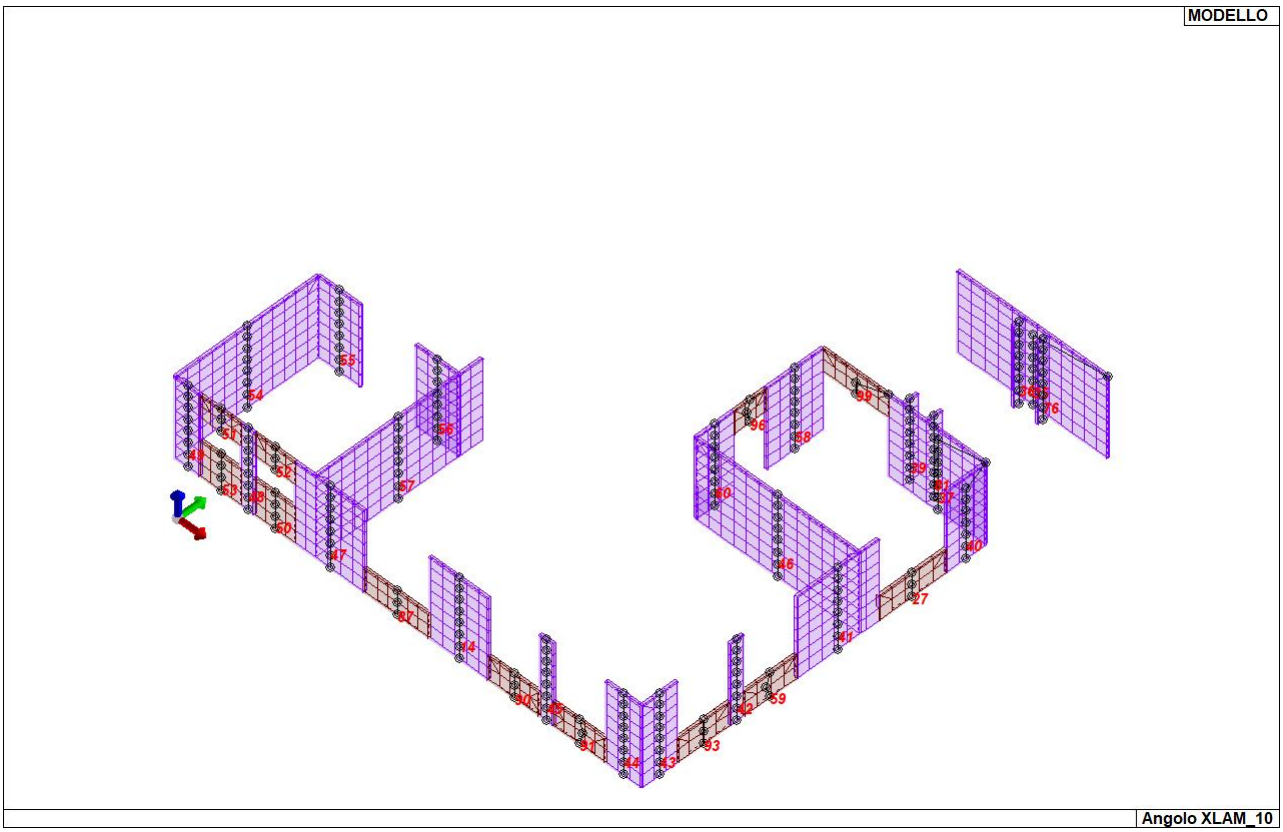


Figura 22: Numerazione macro elementi setti piano terra



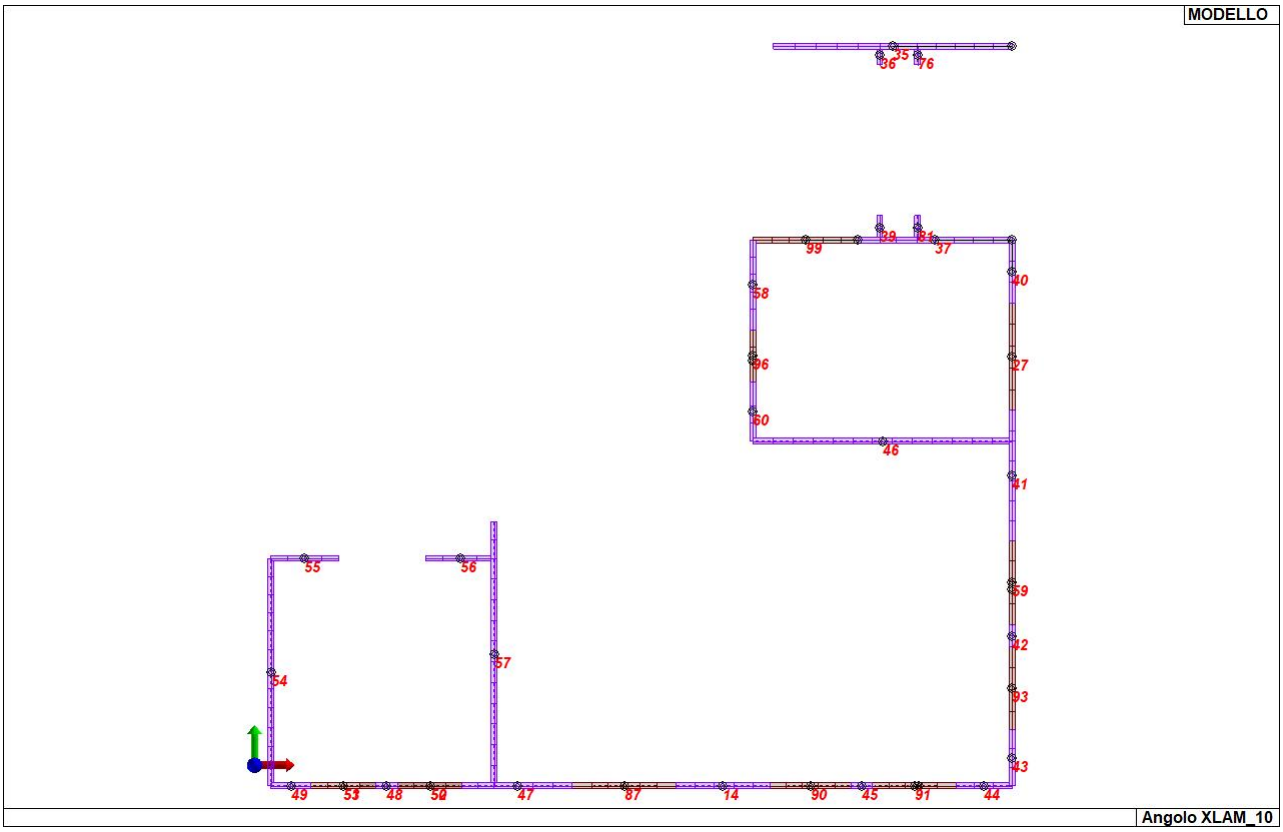
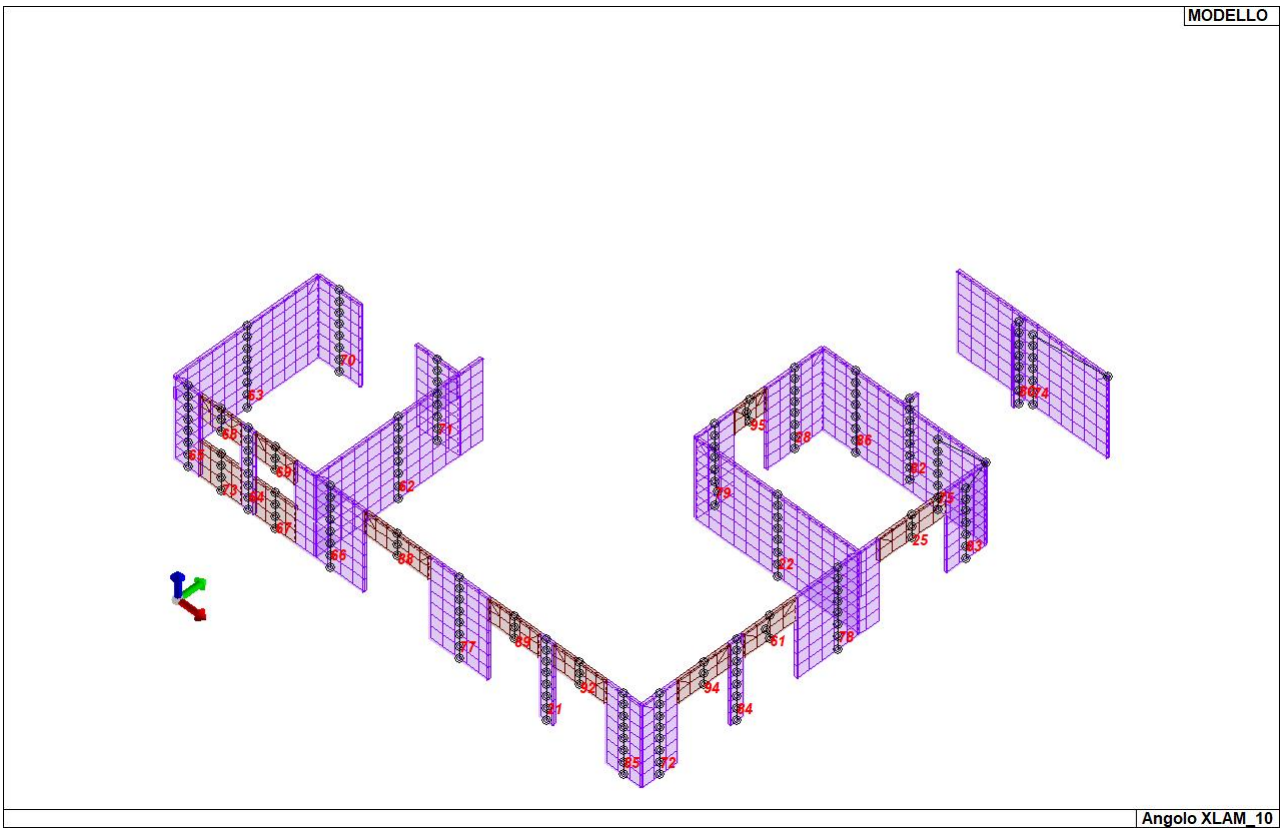


Figura 23: Numerazione macro elementi setti piano primo



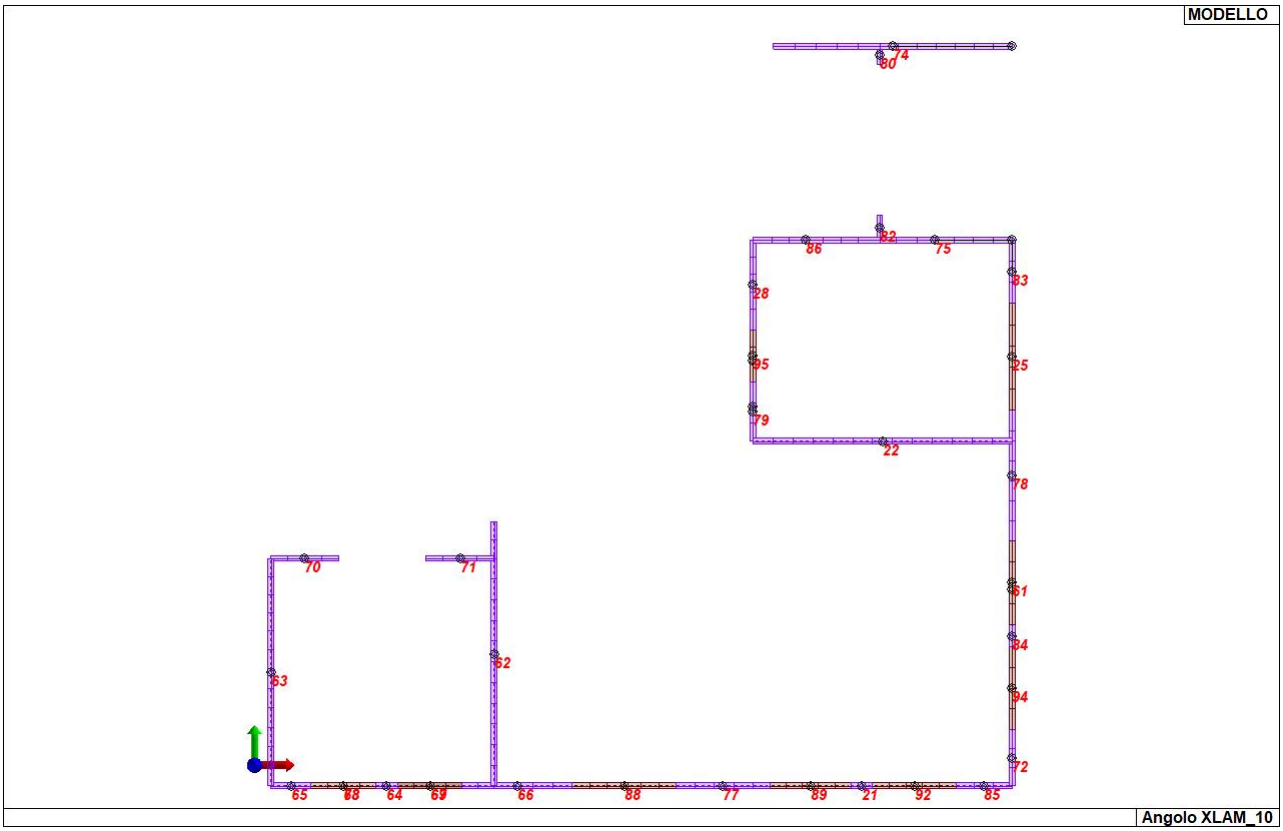


Figura 24: Numerazione macro elementi setti piano secondo

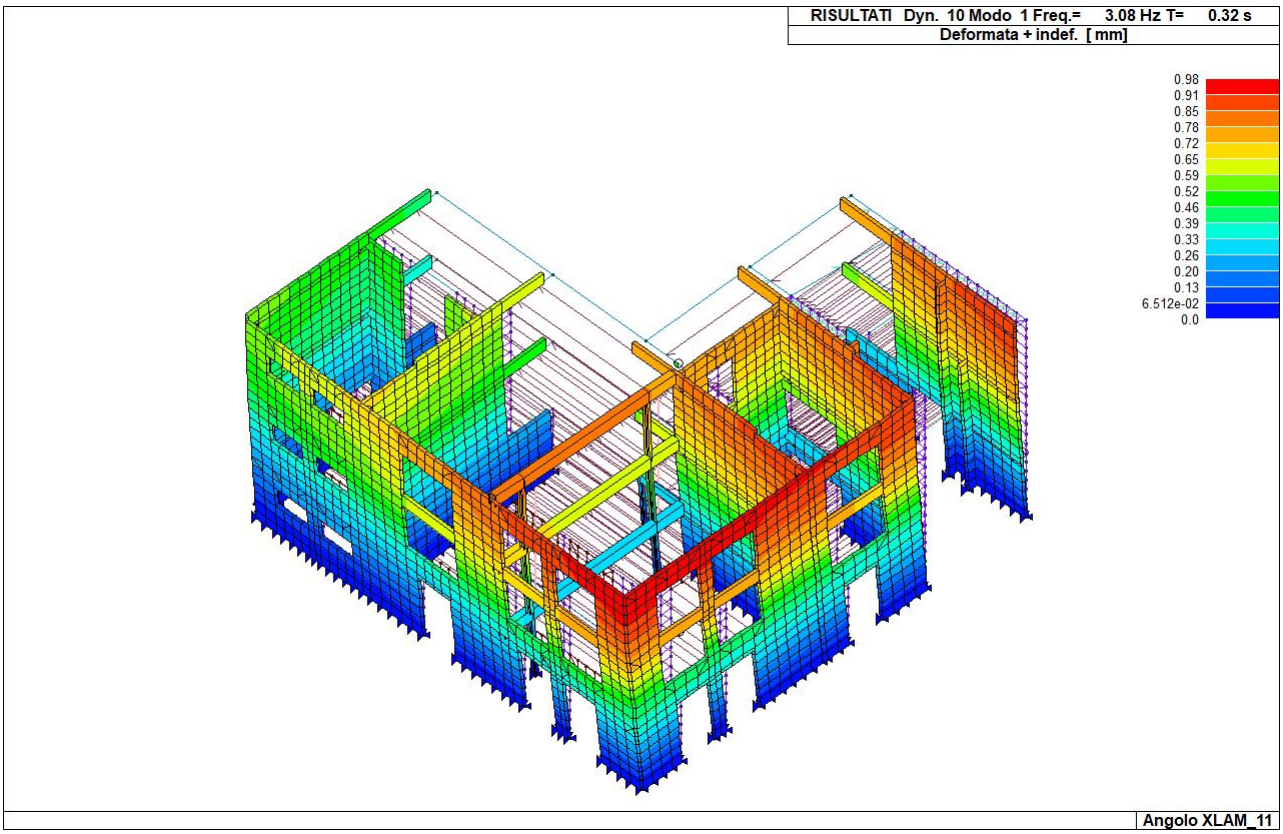


Figura 25: rappresentazione deformata nel modo 1

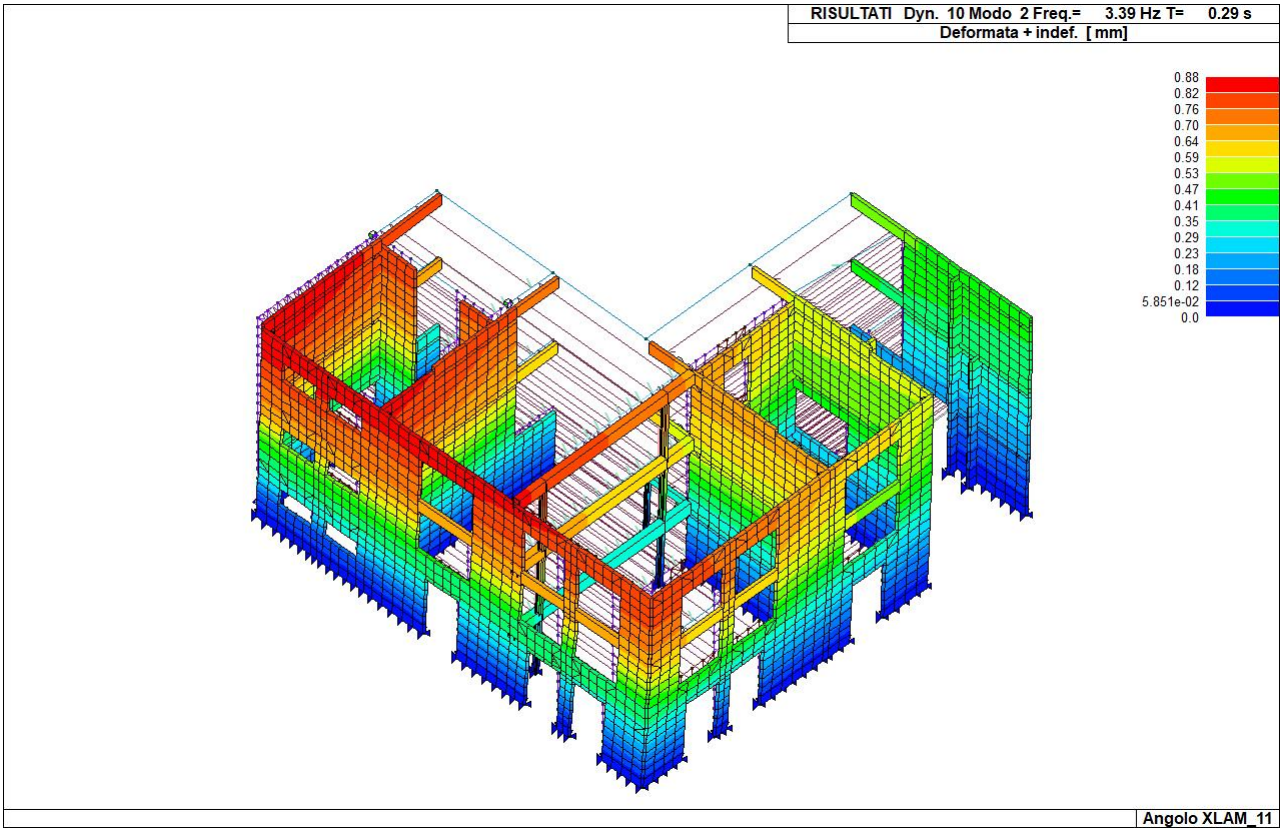


Figura 26: rappresentazione deformata nel modo 2

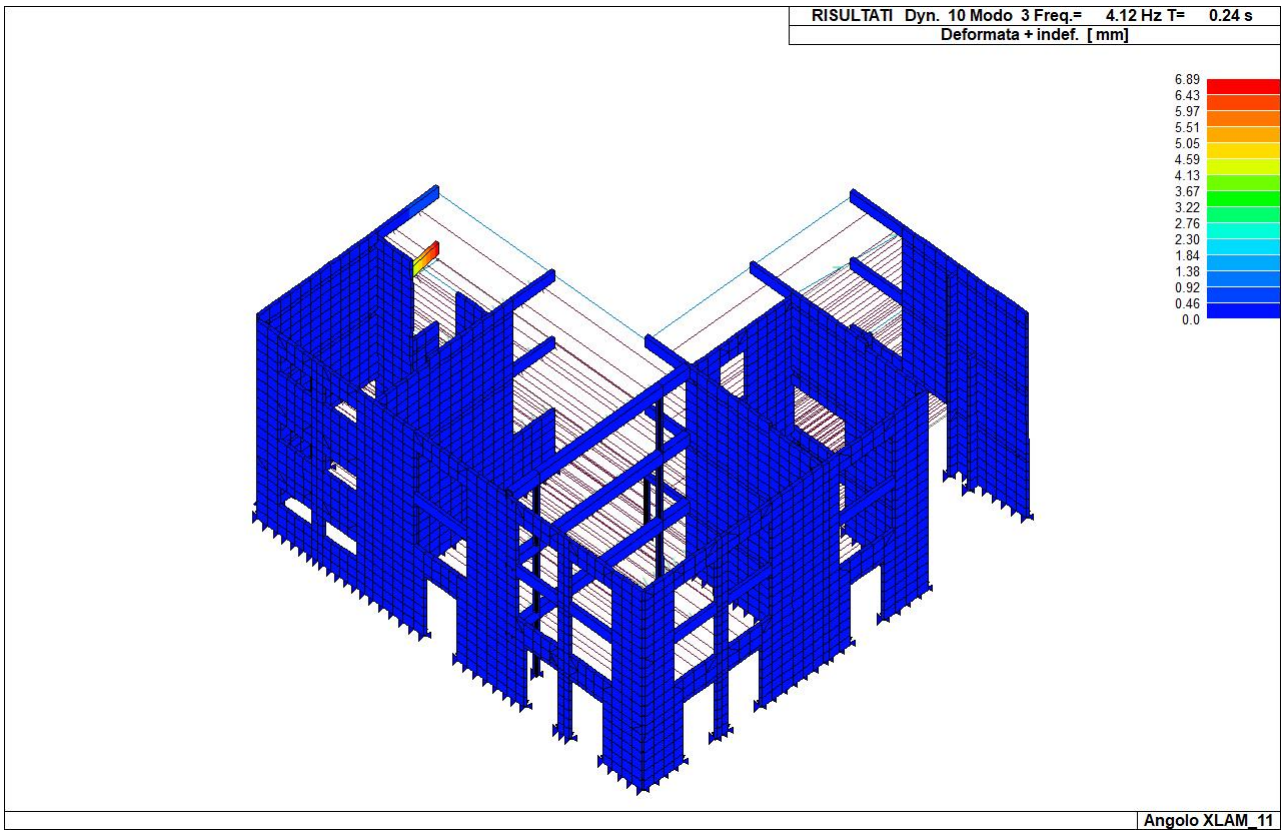


Figura 27: rappresentazione deformata nel modo 3

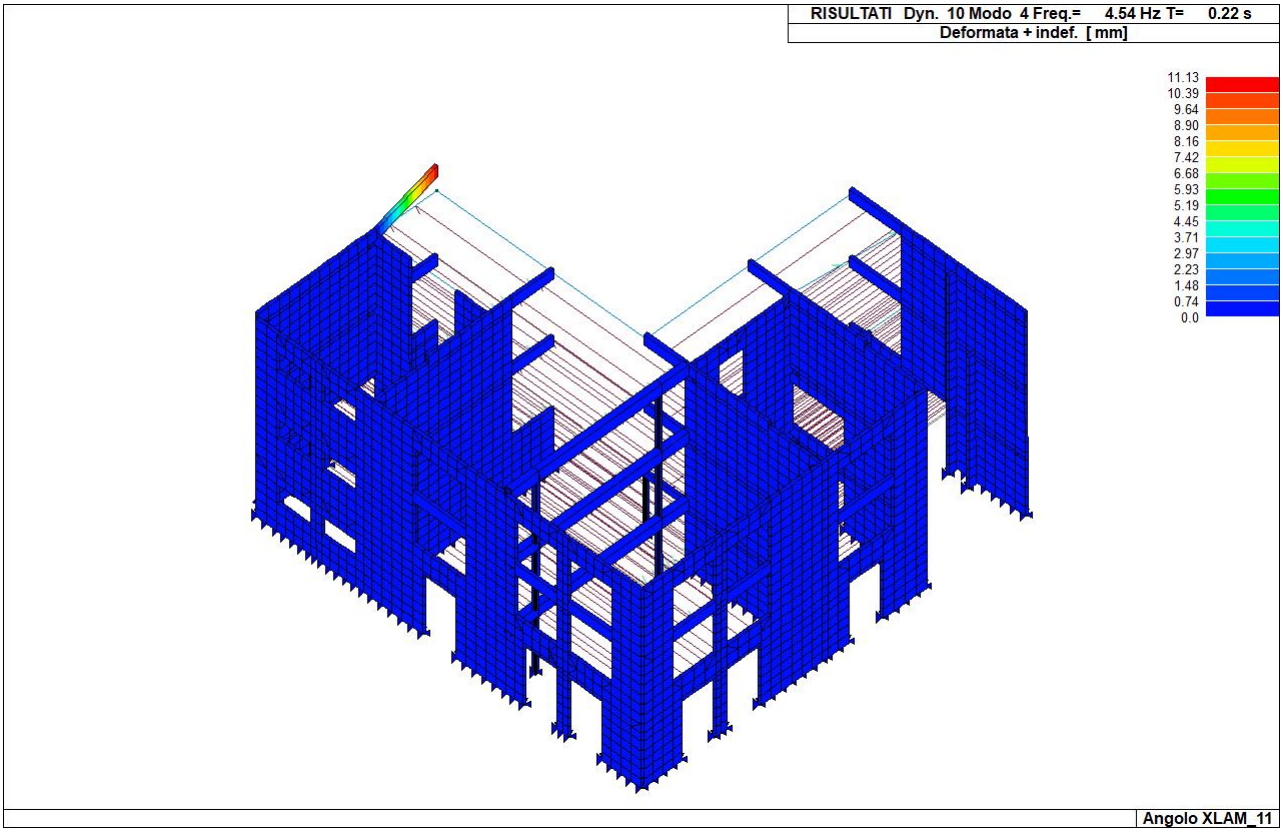


Figura 28: rappresentazione deformata nel modo 4

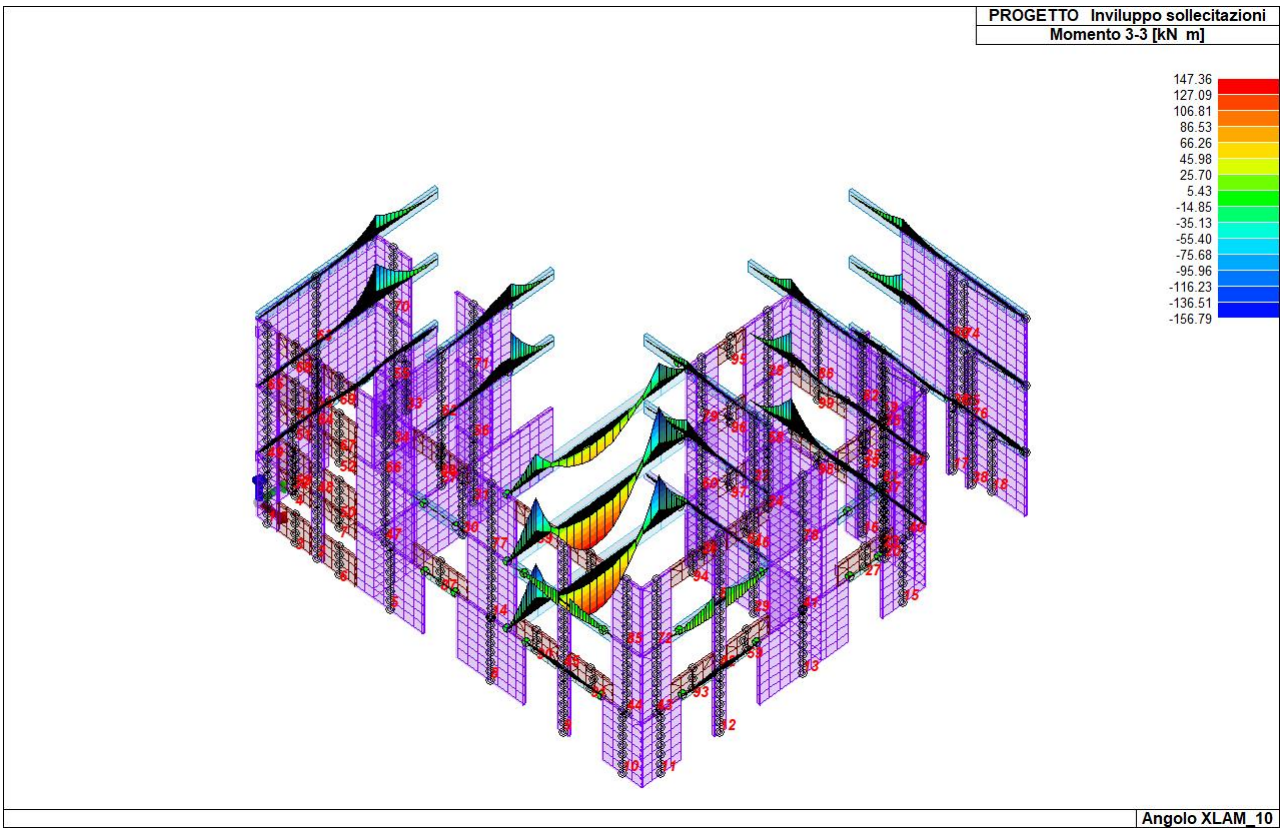


Figura 29: inviluppo Momento flettente elementi Trave

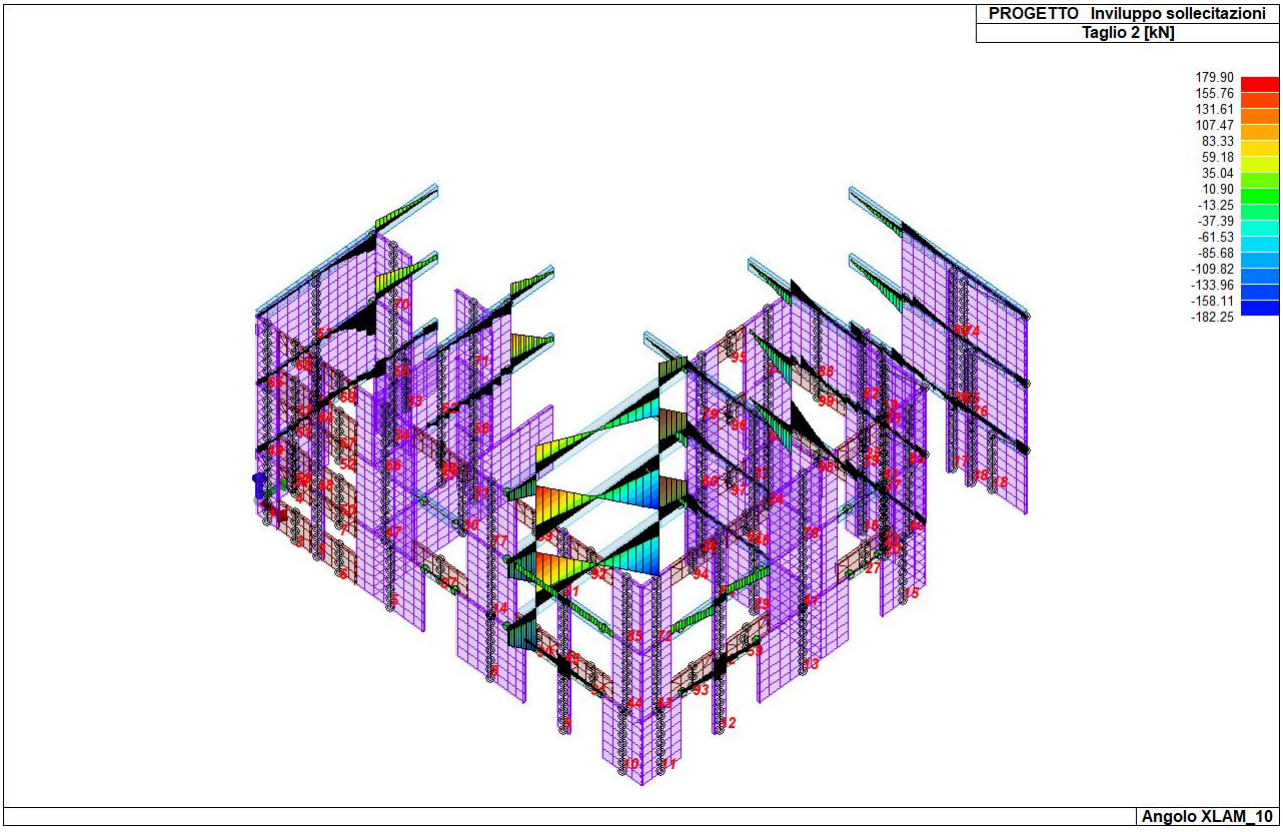


Figura 30: inviluppo Taglio elementi Trave

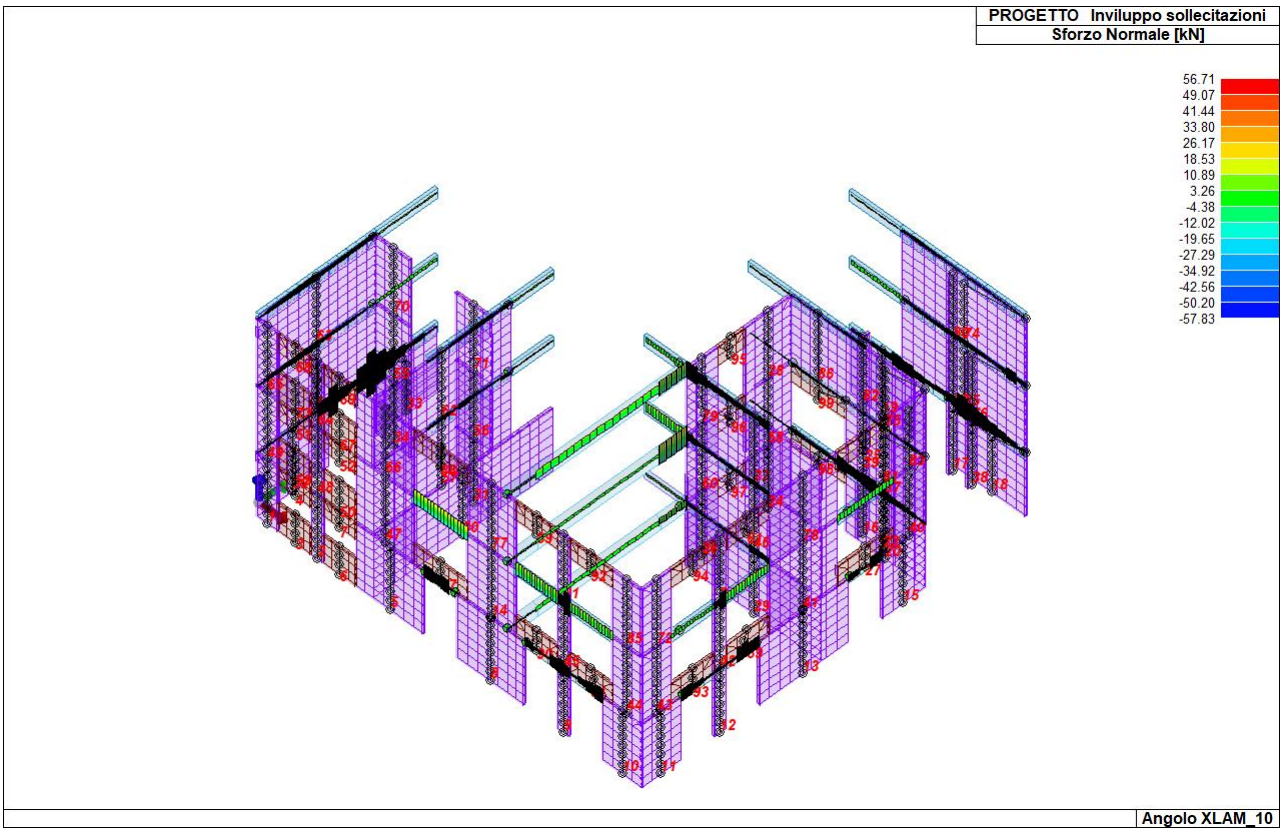


Figura 31: inviluppo Sforzo normale elementi Trave

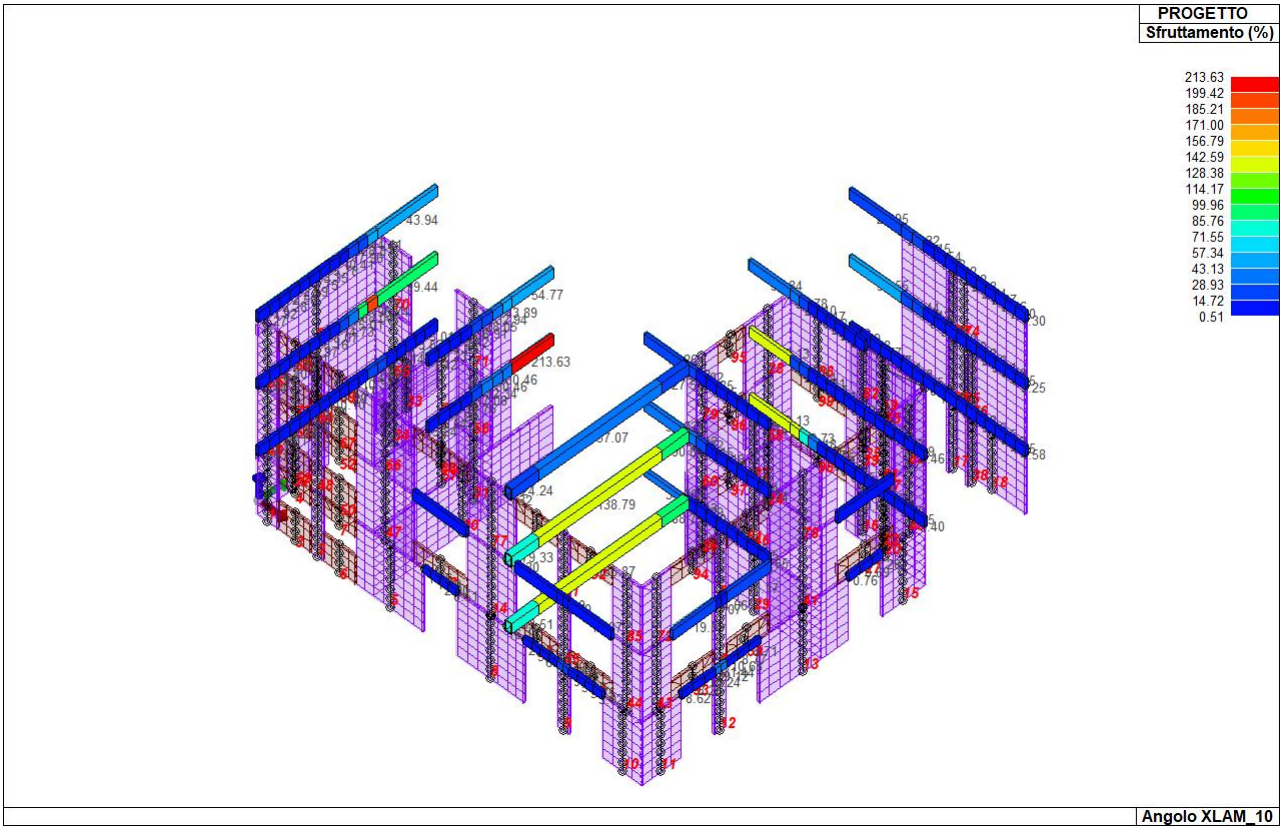


Figura 32: valore sfruttamento elementi Trave

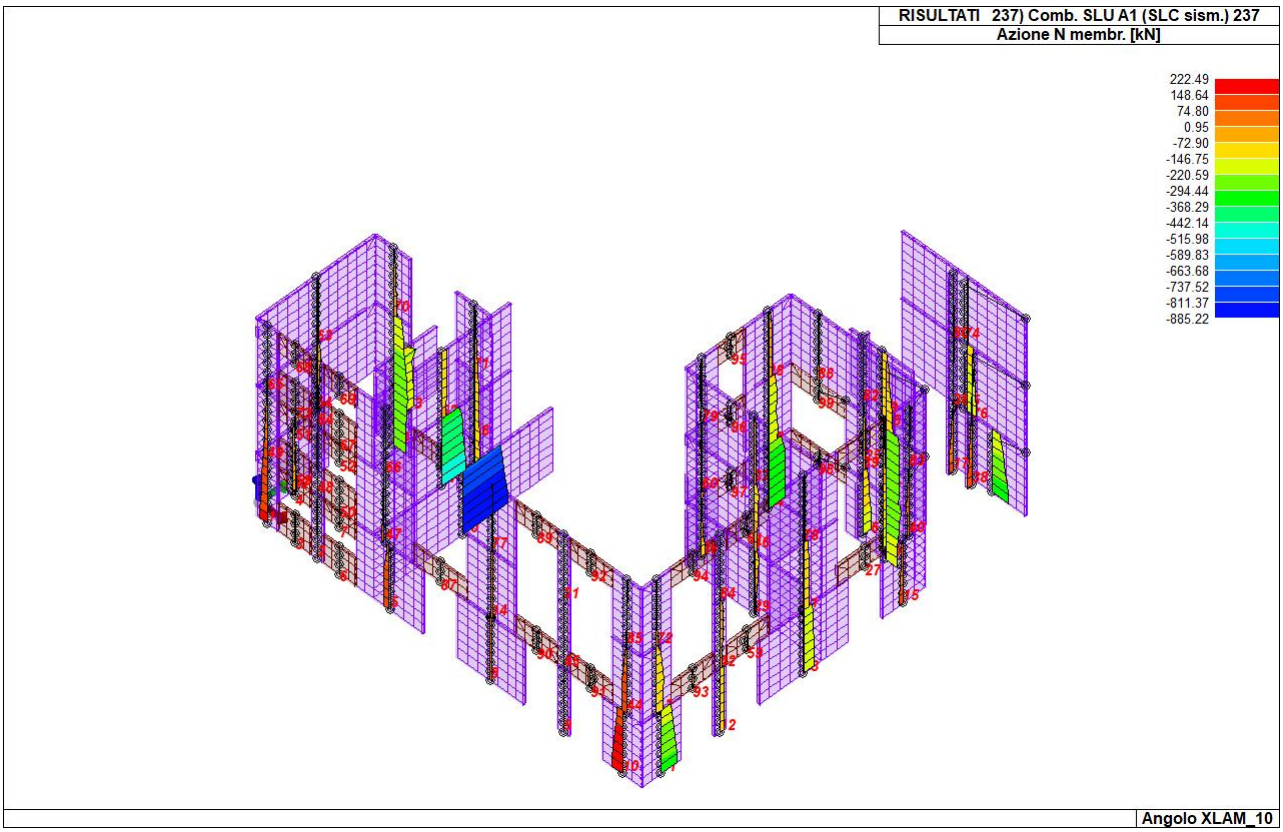


Figura 33: Sollecitazione massima di Sforzo Normale sugli elementi parete

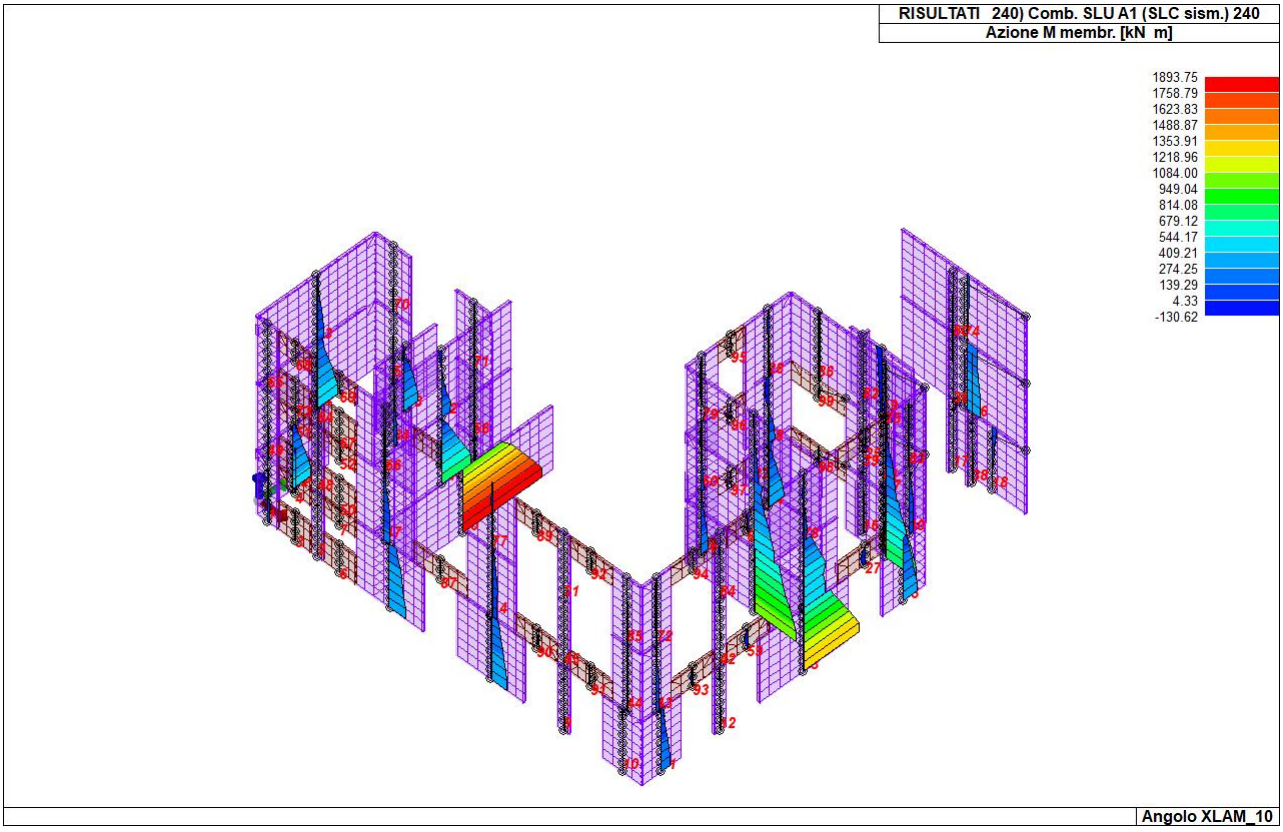


Figura 34: Sollecitazione massima di Momento flettente, nella direzione dei pannelli, sugli elementi parete

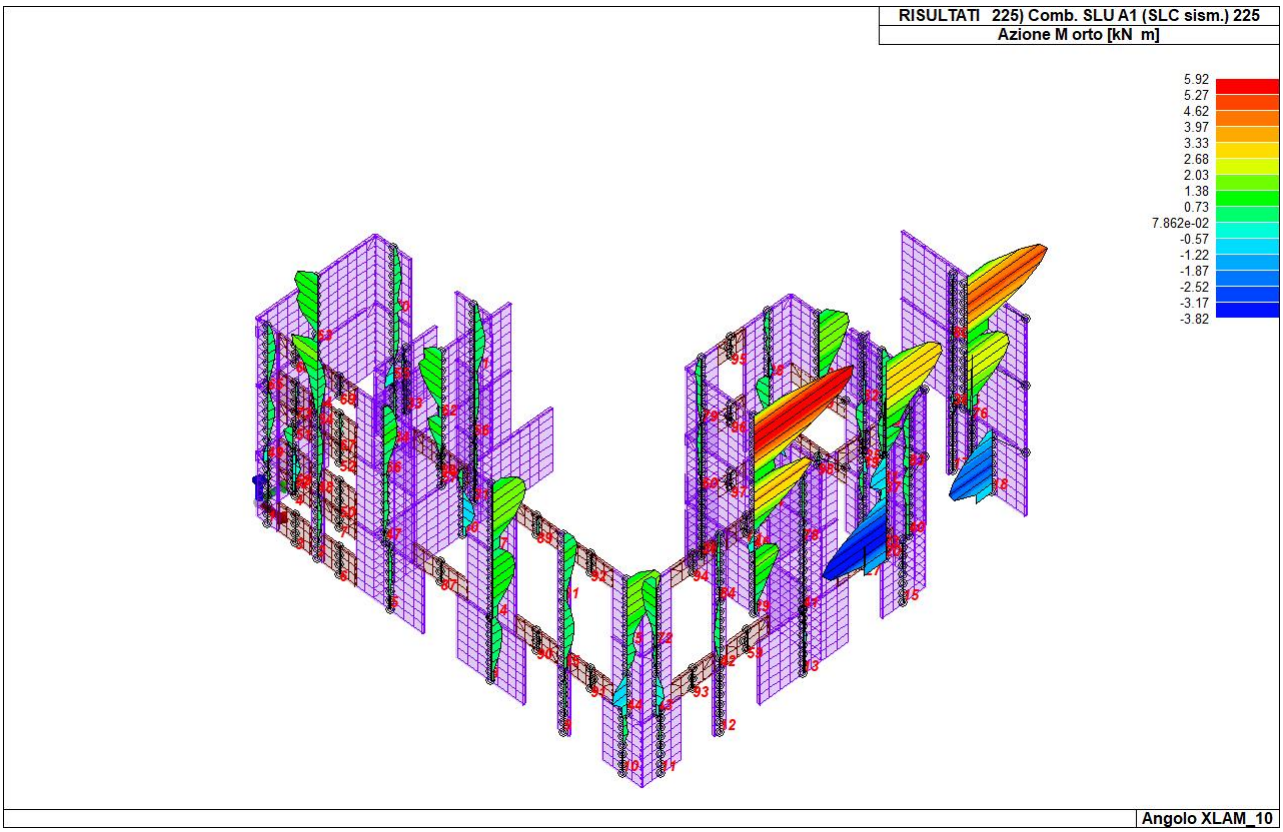


Figura 35: Sollecitazione massima di Momento flettente, nella direzione ortogonale ai pannelli, sugli elementi parete

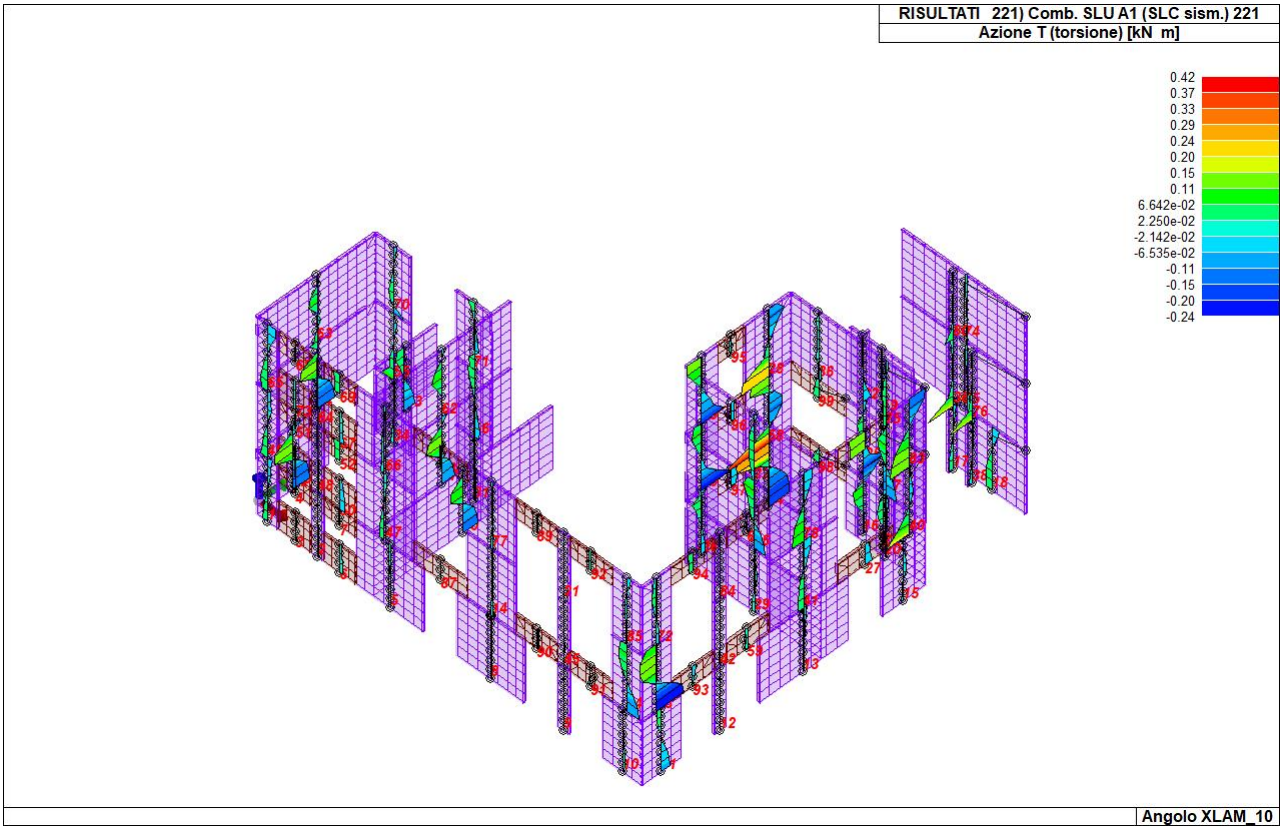


Figura 36: Sollecitazione massima azione torsionale sugli elementi parete

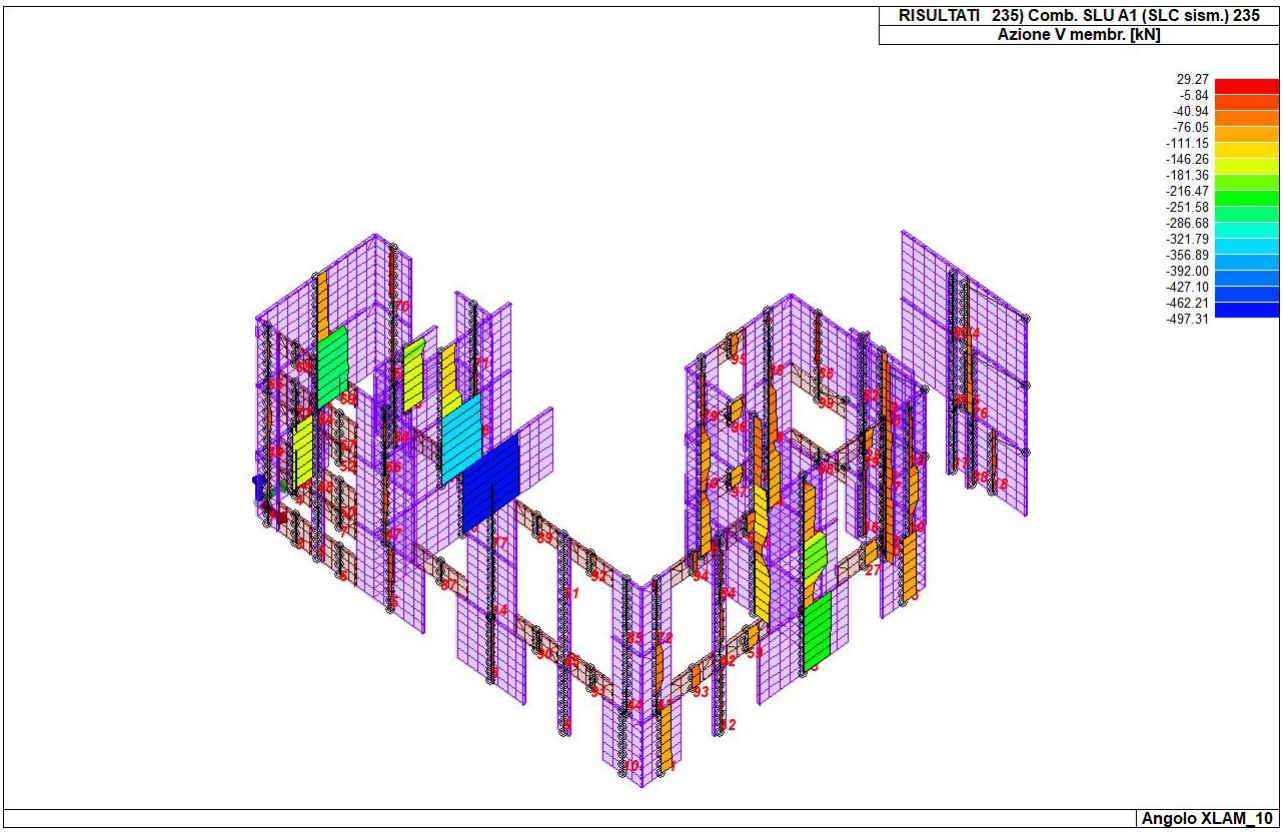


Figura 37: Sollecitazione massima azione di Taglio nel piano degli elementi parete

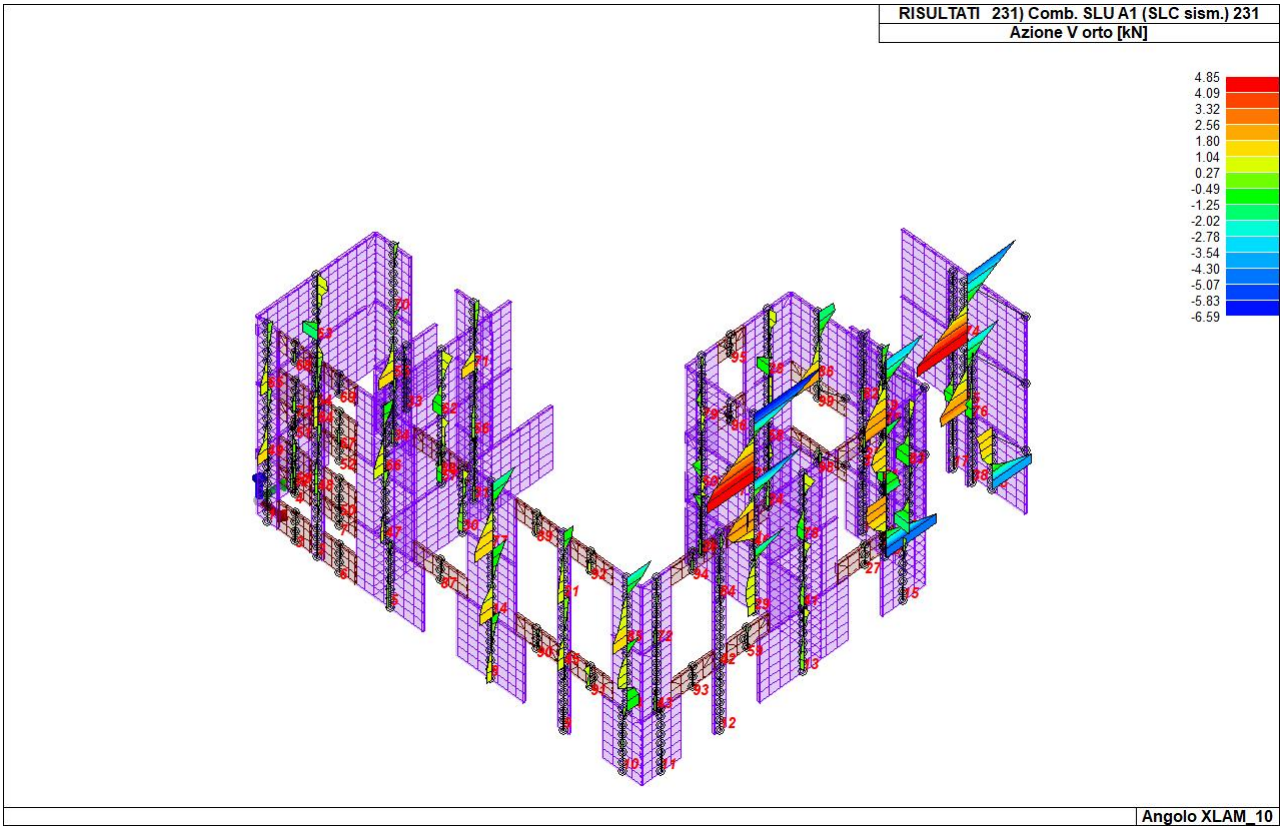


Figura 38: Sollecitazione massima azione di Taglio nel piano ortogonale elementi parete

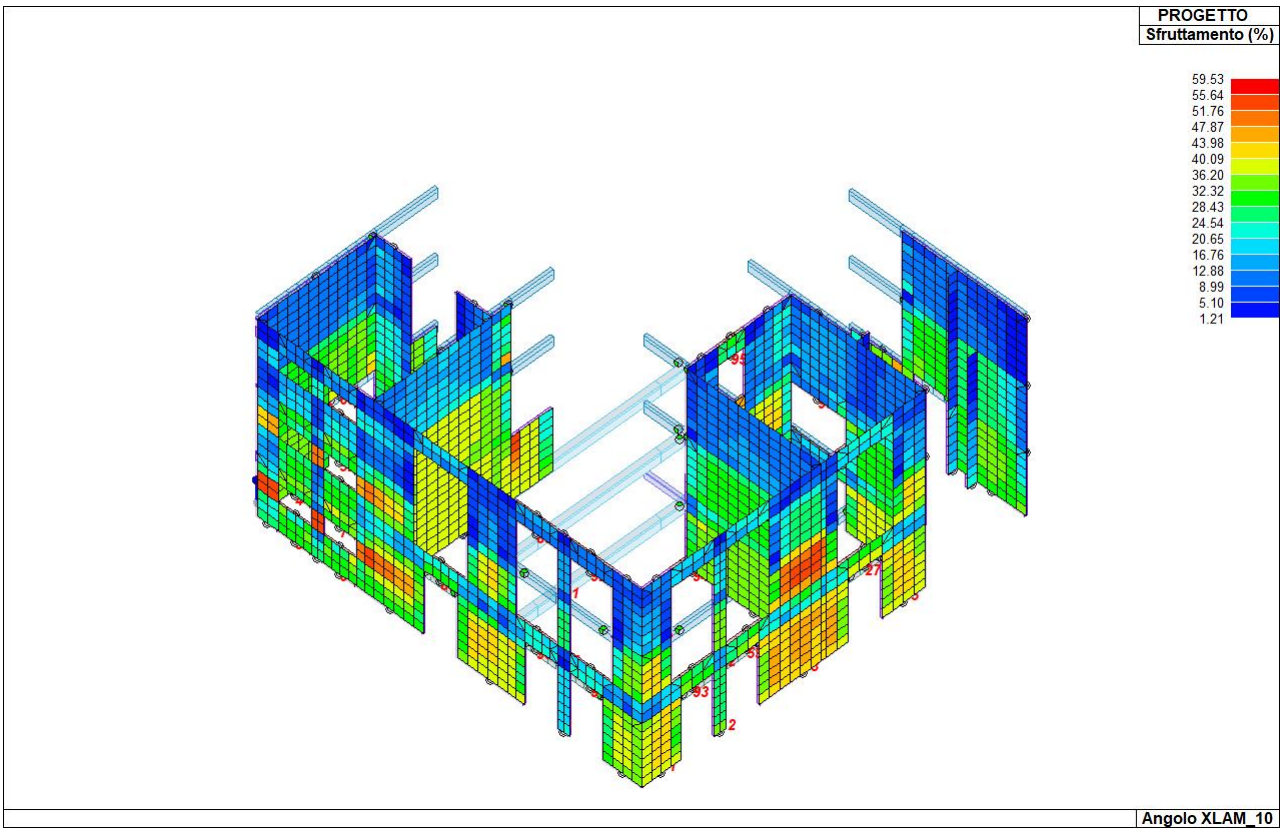


Figura 39: valore dello sfruttamento degli elementi pareti in X-lam

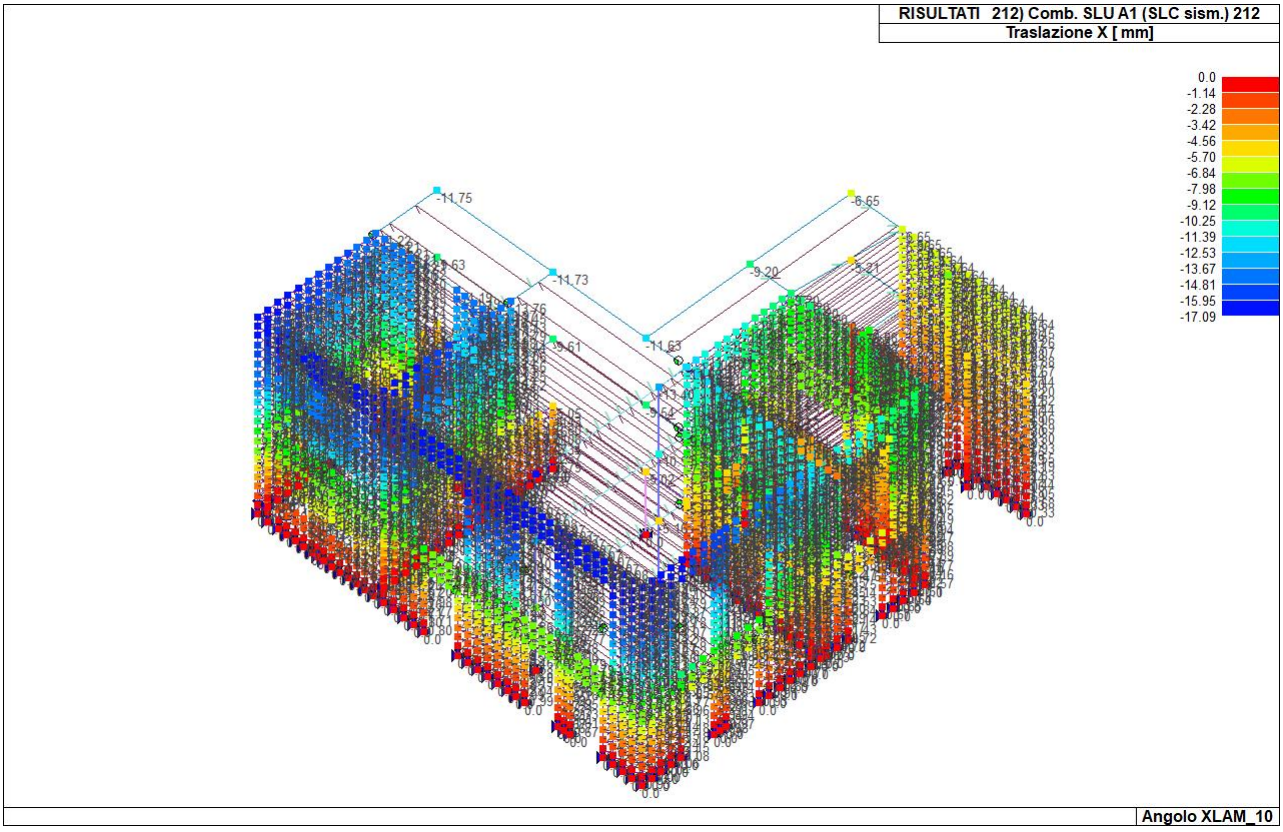


Figura 40: SLC – valore massimo di spostamento in direzione x

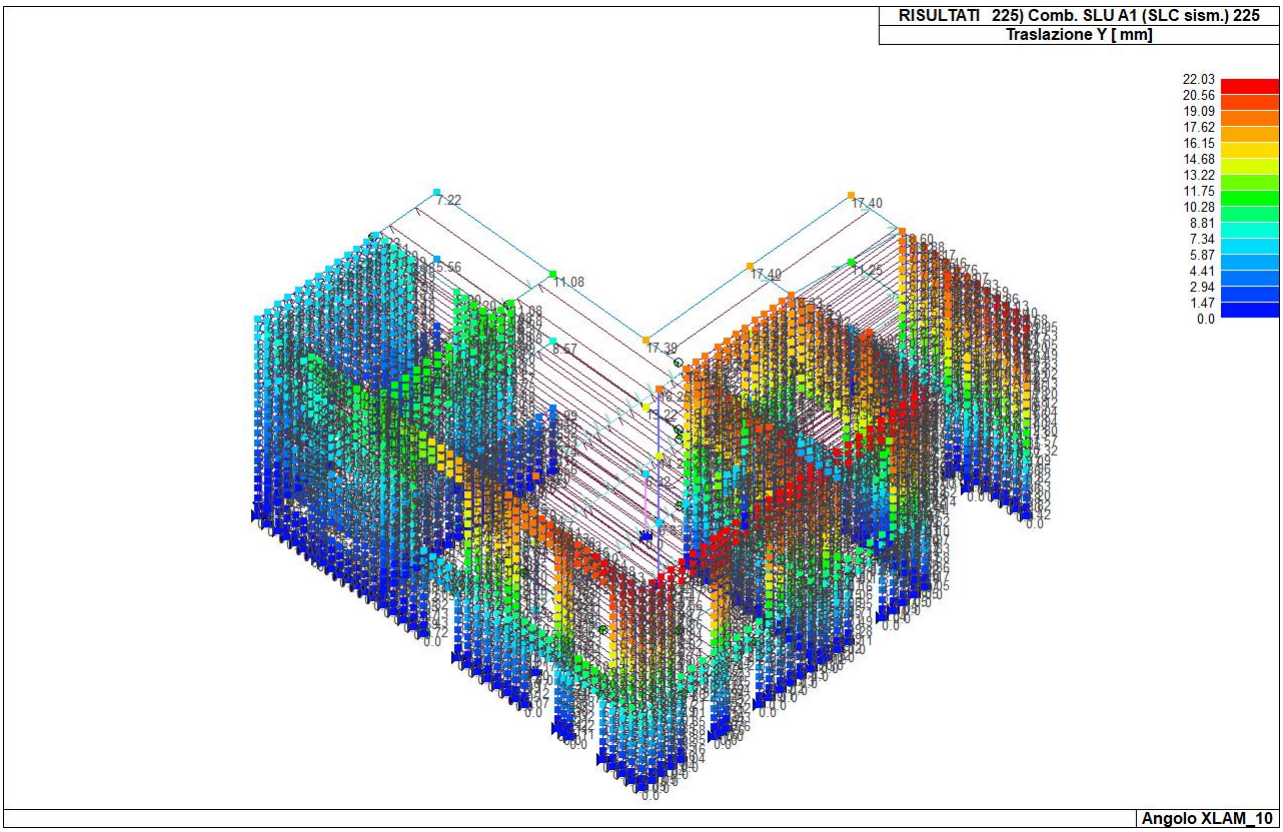


Figura 41: SLC – valore massimo di spostamento in direzione y

13.2 RISULTATI ANALISI US 02-S

Di seguito vengono riportati i principali risultati forniti dal programma in termini di configurazione deformate e delle caratteristiche di sollecitazione delle strutture più significative della porzione in acciaio.

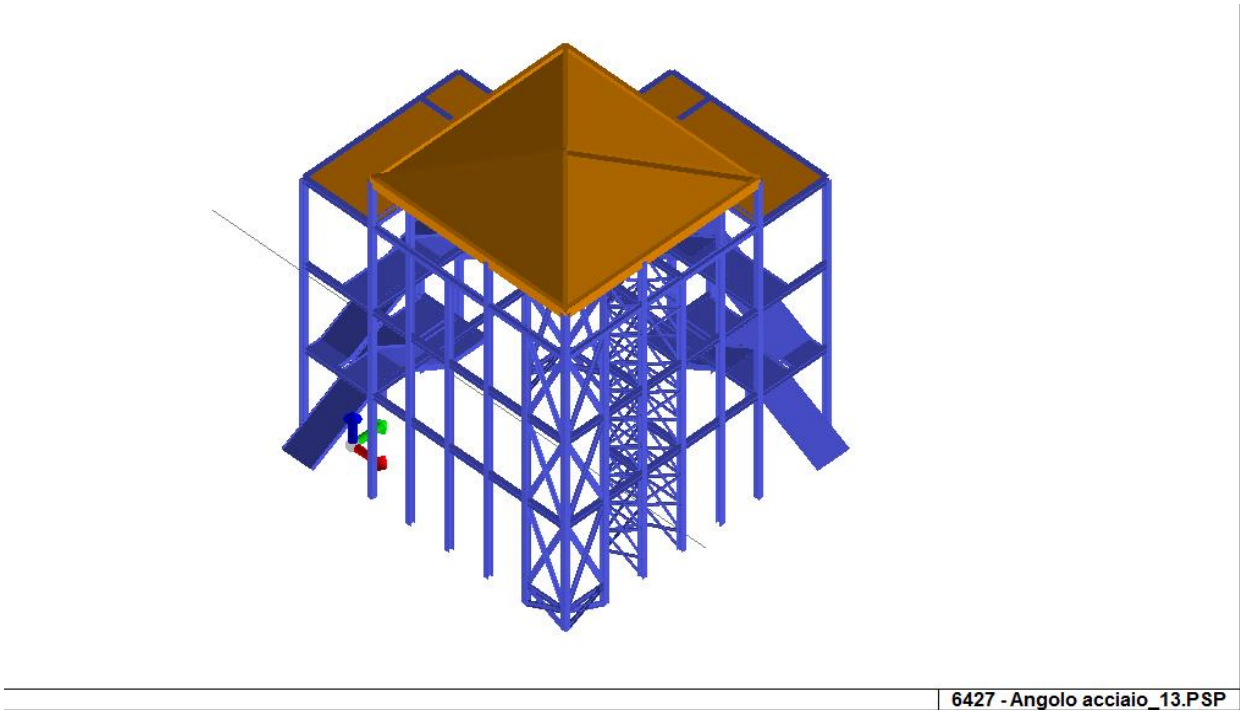


Figura 42: vista solida modello

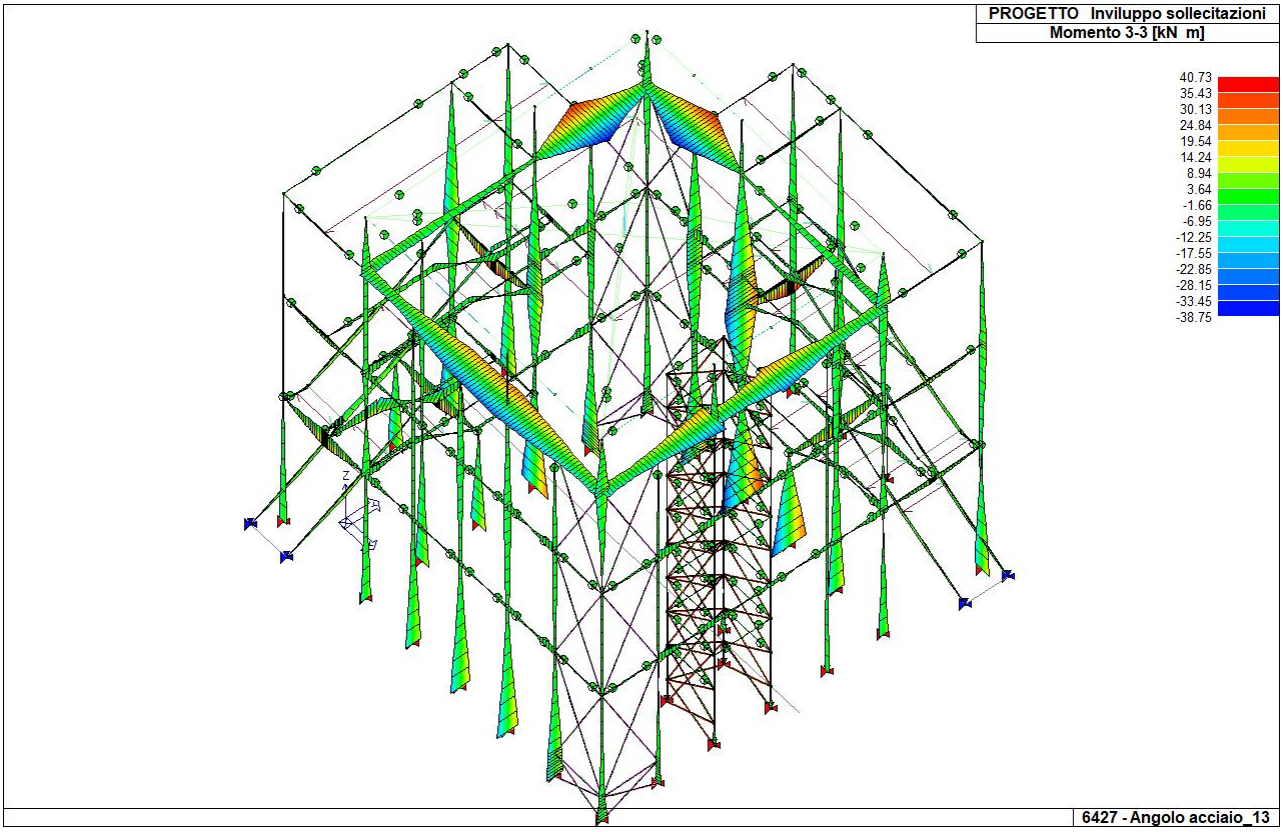


Figura 43: Inviluppo Sollecitazione Momento flettente

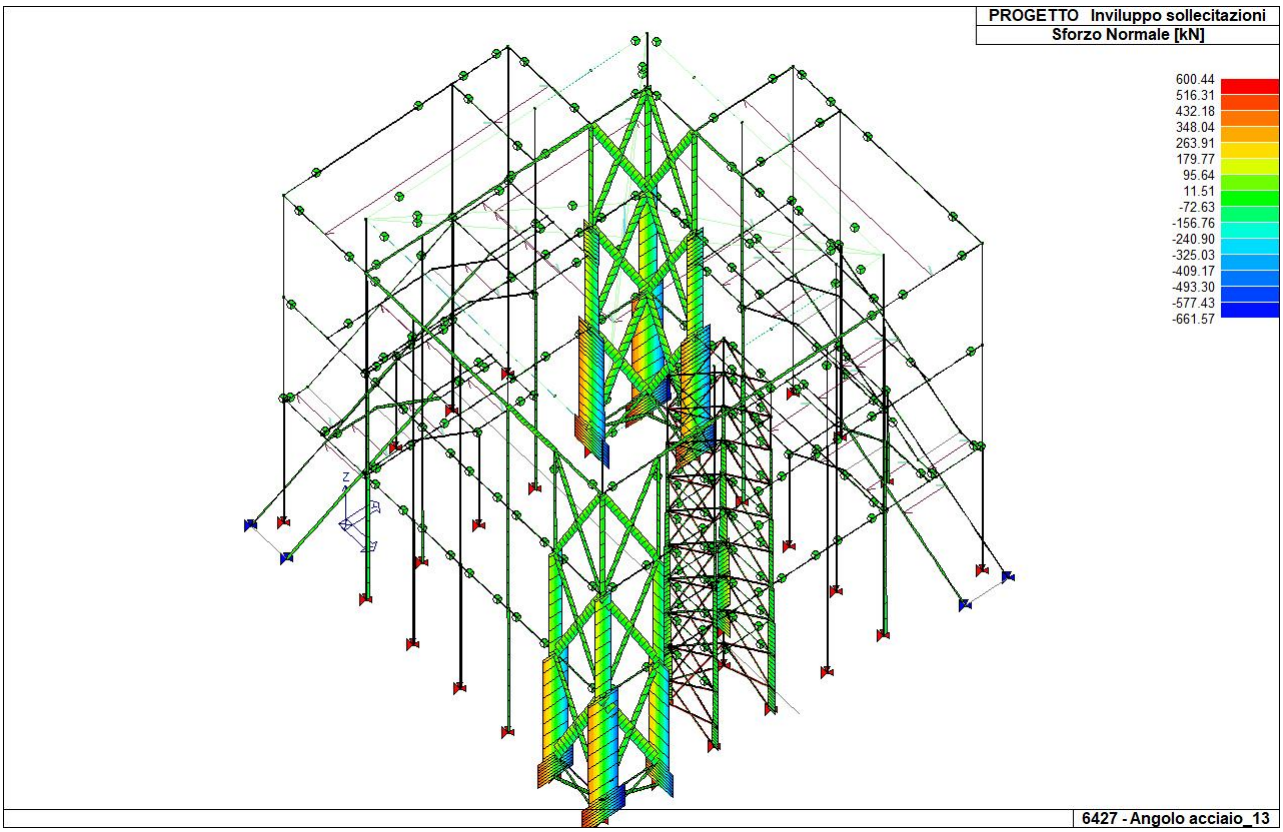


Figura 44: Inviluppo sforzo normale

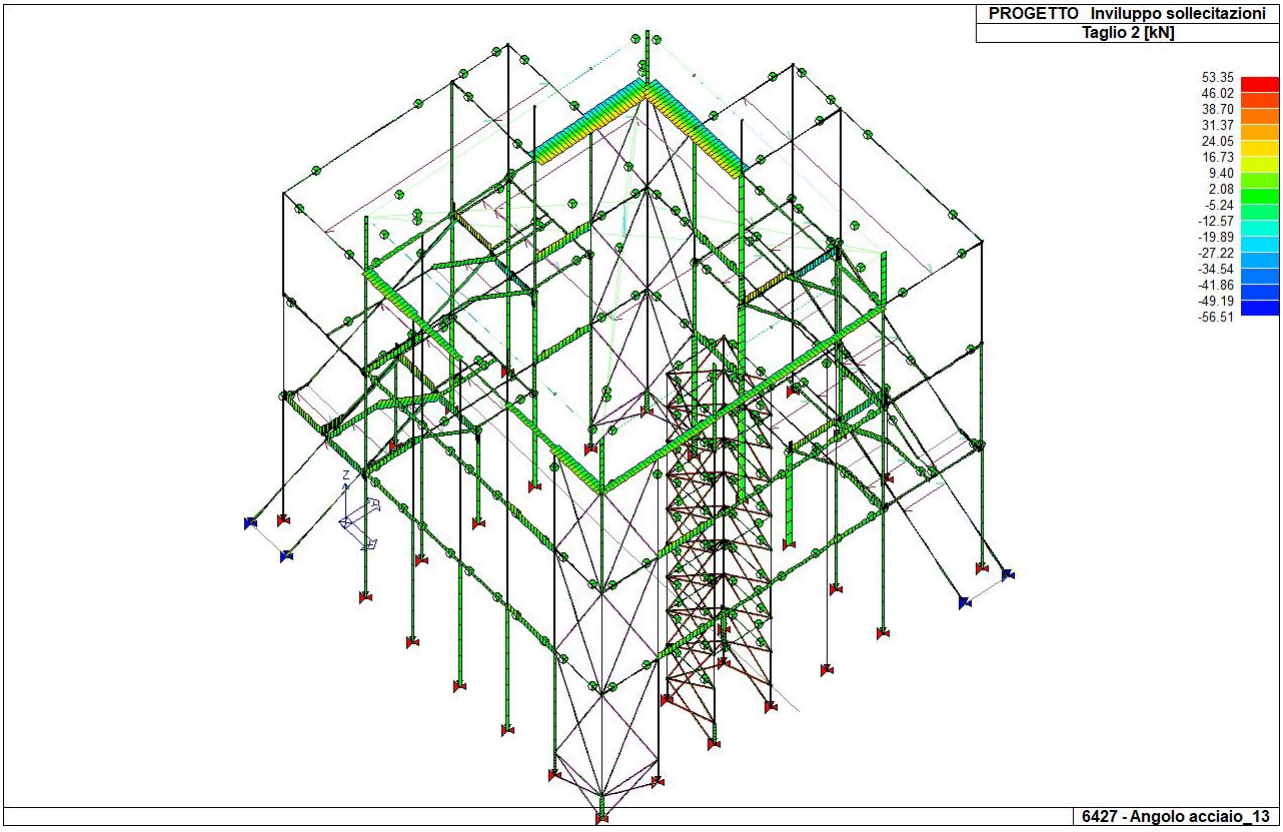


Figura 45: Inviluppo sollecitazione di taglio

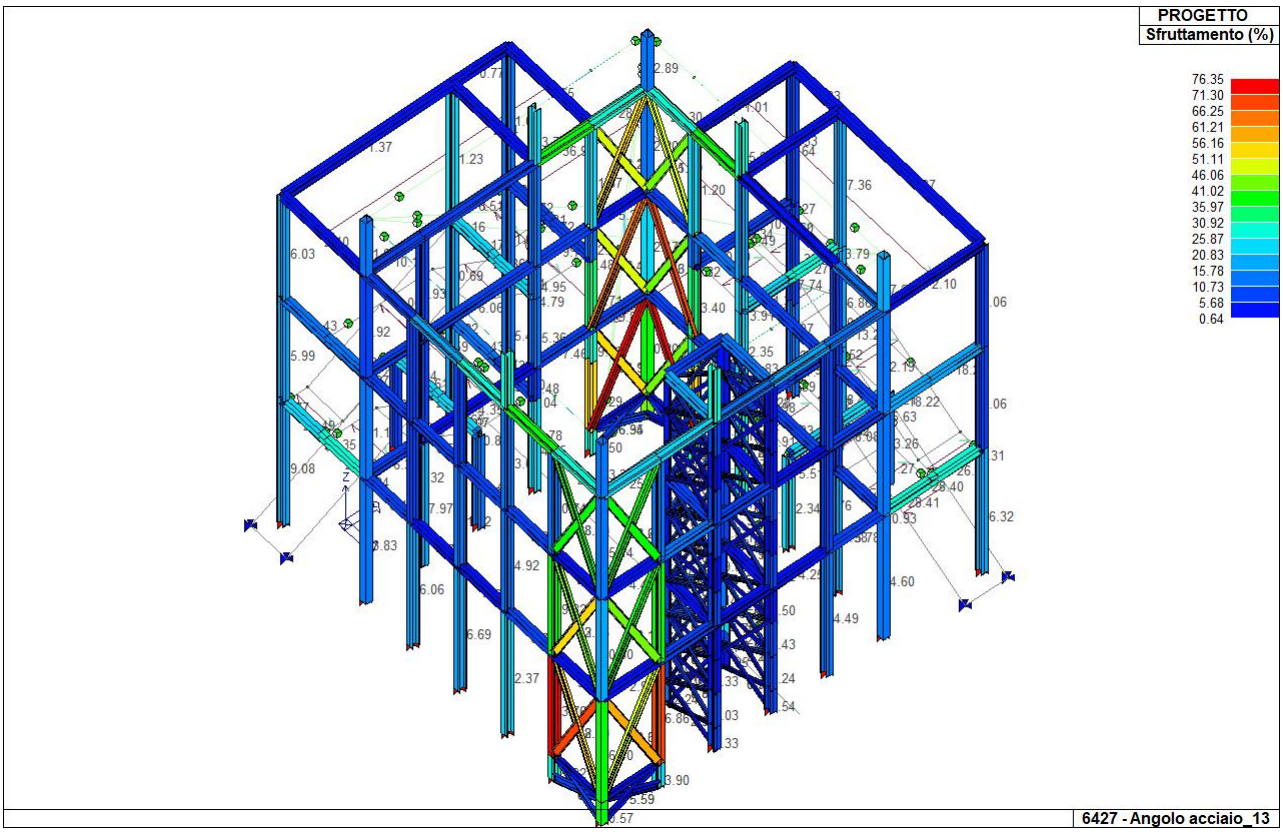


Figura 46: Valore sfruttamento elementi

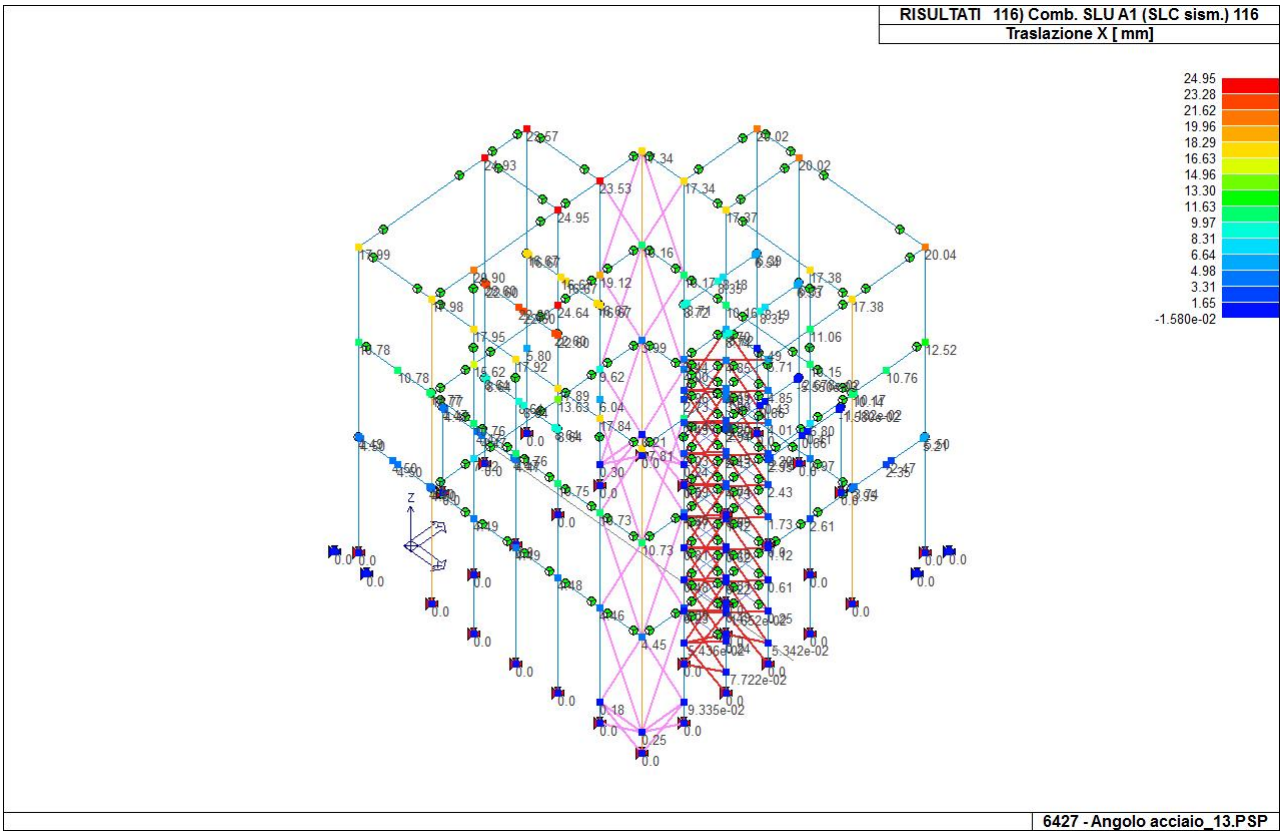


Figura 47: valore massimo di spostamento in direzione x

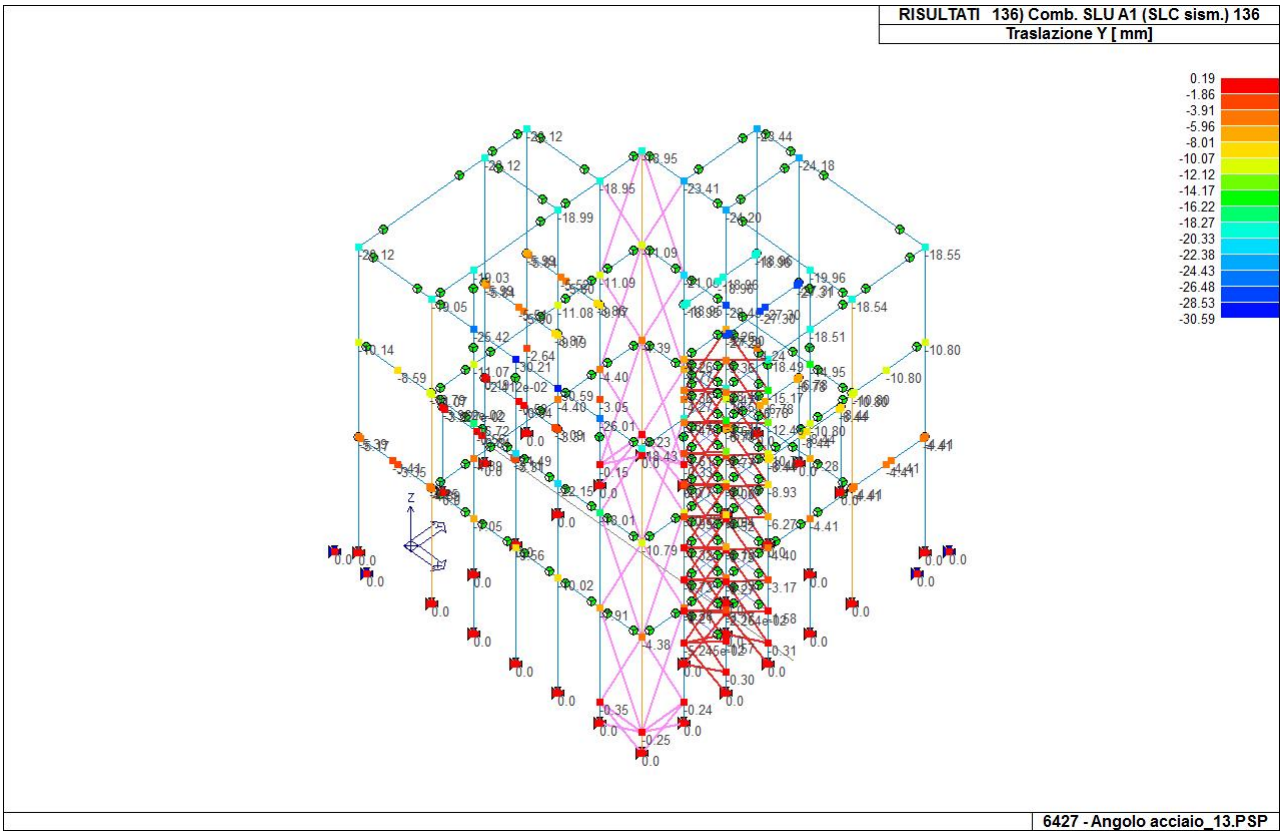


Figura 48: valore massimo di spostamento in direzione y

13.3 VERIFICHE US 02-L

13.3.1 VERIFICA ELEMENTI TRAVE

Si riportano i risultati delle verifiche forniti dal Programma di calcolo utilizzato.

13.3.1.1 LEGENDA TABELLA VERIFICHE S.L. ELEMENTI IN LEGNO

Il programma consente la verifica dei seguenti tipi di elementi:

1. Aste 2. Travi 3. Pilastri

L'esito delle verifiche è espresso con un codice come di seguito indicato:

ok: verifica con esito positivo

NV: verifica con esito negativo

Le verifiche sono condotte in ottemperanza alle NTC 17 Gennaio 2018, oppure seguendo le indicazioni analitiche riportate nella norma tecnica UNI EN 1995-1-1:2005 "Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali - Regole comuni e regole per gli edifici" ; in particolare le verifiche effettuate sono riconducibili ai punti:

NTC 2018

- 4.4.8 Stati limite ultimi
- 4.4.8.1.7 Tensoflessione

- 4.4.8.1.8 Pressoflessione
- 4.4.8.1.11 Taglio e torsione
- 4.4.8.2.1 Elementi inflessi
- 4.4.8.2.2 Elementi compressi

EC5

- 2.2.2 Ultimate limit states
- 2.2.3 Serviceability limit states
- 2.4.1 Design value of material property
- 2.4.3 Design resistances
- 3.1.3 Strength modification (kmod)
- 3.1.4 Deformation modification (kdef)
- 6. Ultimate limit states
- 6.2 Design of cross-sections subjected to combined stresses
- 6.3 Stability of members

Simbologia adottata nelle tabelle di verifica

Le verifiche effettuate ai sensi delle NTC 2018 sono dettagliatamente riportate come da tabella seguente:

Elem.	Numero dell'elemento
Tipo	Codice di individuazione del tipo di elemento: Trave **(T),** Pilastro **(P),** Asta **(A)**
Stato	Codice della verifica: **ok** verificato, **NV** non verificato
Note	Numero della sezione (s) e del materiale (m) dell'archivio
Ver N+/M	Verifica come da formule 4.4.6a e 4.4.6b per tensoflessione, con i valori di km definiti nel par. 4.4.8.1.6
Ver N-/M	Verifica come da formule 4.4.7a e 4.4.7b per pressoflessione, con i valori di km definiti nel par. 4.4.8.1.6
Ver V/T	Verifica come da formula 4.4.10 (taglio torsione) con interazione ottenuta per quadratura del termine di taglio
Ver N(s)	Verifica instabilità a compressione come da par. 4.4.8.2.2
Kcy(z)	Fattore di instabilità Kcrit,c utilizzato nella formula 4.4.13, in funzione della snellezza relativa
Ver M(s)	Verifica instabilità laterale come da par. 4.4.8.2.1, effettuata in entrambi i piani principali y e z
Kcrit (y)/(z)	Fattore di instabilità laterale utilizzato nella formula 4.4.11 rispettivamente per la flessione y e z
w,net R	Massima deformazione in combinazione rara (F frequente, P quasi permanente)
w,net Ri	Massima deformazione in combinazione rara (F frequente, P quasi permanente) valutata a tempo infinito
kdef	Fattore di deformazione dell' elemento
Rif. cmb	Numero della combinazione in cui si è attinto il valore riportato per le verifiche

Le verifiche effettuate ai sensi dell'EC5 sono dettagliatamente riportate come da tabella seguente:

Elem.	Numero dell'elemento
Tipo	Codice di individuazione del tipo di elemento: Trave **(T),** Pilastro **(P),** Asta **(A)**
Stato	Codice della verifica **ok** verificato, **NV** non verificato
Note	Numero della sezione (s) e del materiale (m) dell'archivio
Ver N+/M	Verifica come da formula 6.17 e 6.18 per tensoflessione
Ver N-/M	Verifica come da formula 6.19 e 6.20 per pressoflessione
Ver V/T	Verifica come da formula 6.13 e 6.14 (taglio torsione) con interazione ottenuta per quadratura del termine di taglio
Ver N(s)	Verifica come da formula 6.23 e 6.24 per pressoflessione di elementi con snellezza relativa in un piano maggiore di 0.3
Kcy (z)	Fattore di instabilità utilizzato nella formula 6.23 (6.24)
Ver M(s)	Verifica come da formula 6.35 (effettuata in entrambi i piani principali) per instabilità laterale
Kcrit (y) (z)	Fattore di instabilità laterale utilizzato nella formula 6.35 rispettivamente per la flessione y e z
w,net R	Massima deformazione in combinazione rara (F frequente, P quasi permanente)
w,net Ri	Massima deformazione in combinazione rara (F frequente, P quasi permanente) valutata a tempo infinito
kdef	Fattore di deformazione dell' elemento
Rif. cmb	Numero della combinazione in cui si è attinto il valore riportato per le verifiche

Si sottolinea che le cinque verifiche sono espresse dal rapporto tra domanda e capacità, affinché la verifica sia positiva il rapporto deve essere inferiore o uguale a 1. La capacità è affetta dal termine **kmod**,

espressione della classe di servizio e della durata dei carichi (si considera a livello di combinazione il caso di carico di minor durata).
Le deformazioni dell' elemento espresse in rapporto ad un millesimo di lunghezza sono rappresentate dal valore istantaneo e dal valore a tempo infinito. Il valore della deformazione a tempo infinito per una combinazione di carichi è ottenuta sommando per ogni caso di carico sia il valore istantaneo che il valore ottenuto dall' aliquota quasi-permanente amplificata del fattore kdef (formula 2.2 e 2.3).
In termini analitici il contributo del caso di carico con coefficiente di combinazione ***Psi*** (diverso da 0) è:
Psi + kdef × Psi2

Con riferimento al **Documento di Affidabilità** "Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST" - versione Settembre 2014, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
97	FATTORE DI STRUTTURA
98	VERIFICA ALLO SLU DI STRUTTURE IN LEGNO SECONDO EC5
99	VERIFICA ALLO SLE DI STRUTTURE IN LEGNO SECONDO EC5
101	VERIFICHE EC5
102	SNELLEZZE EC5

Elem.	Note	Pos. cm	Ver N+/M	Ver N-/M	Ver V/T	Rif. cmb	Ver N(s)	Kcy	Kcz	Ver M(s)	Kcrit(y)	Kcrit(z)	Rif. cmb
8 ok	T,s=2,m=78	0.0	6.25e-02	5.93e-02	0.1	213,216,100				2.20e-02	1.0	1.0	0,236
		50.6	5.36e-02	4.32e-02	1.55e-02	235,100,240				2.10e-02	1.0	1.0	0,236
9 ok	T,s=5,m=78	0.0	0.5	0.5	0.9	76,100,100				0.3	1.0	1.0	0,100
		145.0	1.01e-02	2.34e-03	0.2	234,223,100				6.55e-03	1.0	1.0	0,235
10 NV	T,s=5,m=78	0.0	0.5	0.4	1.3	99,51,99	0.4	0.9	0.6	0.2	1.0	1.0	51,99
		660.0	0.5	0.5	1.4	100,52,100	0.5	0.9	0.6	0.3	1.0	1.0	52,100
11 ok	T,s=5,m=78	0.0	9.79e-03	8.62e-03	0.1	99,51,99				4.89e-04	1.0	1.0	0,210
		145.0	0.5	0.4	0.8	99,51,99				0.2	1.0	1.0	0,99
12 NV	T,s=2,m=78	0.0	8.53e-04	0.0	1.46e-03	224,221,233	7.87e-04	1.0	0.9	7.87e-04	1.0	1.0	221,221
		220.0	0.6	0.7	1.4	28,100,99	0.7	1.0	0.9	0.5	1.0	1.0	100,99
13 ok	T,s=6,m=78	0.0	2.68e-03	4.44e-06	0.1	211,210,100	2.34e-03	1.0	0.9	2.34e-03	1.0	1.0	210,210
		220.0	0.2	0.1	0.3	99,221,99	0.1	1.0	0.9	2.49e-02	1.0	1.0	221,99
14 ok	T,s=2,m=78	0.0	8.65e-02	9.97e-02	3.80e-02	224,215,233				3.56e-02	1.0	1.0	0,235
		50.6	9.08e-02	8.02e-02	0.1	214,212,100				2.96e-02	1.0	1.0	0,235
15 ok	T,s=2,m=78	0.0	2.91e-03	6.10e-06	1.51e-03	219,218,218	3.19e-03	1.0	0.8	3.19e-03	1.0	1.0	218,218
		276.7	0.2	0.5	0.5	197,99,99	0.5	1.0	0.8	0.3	1.0	1.0	99,100
16 NV	T,s=2,m=78	0.0	8.28e-04	0.0	2.90e-03	218,219,227	1.75e-04	1.0	0.9	1.75e-04	1.0	1.0	219,219
		220.0	0.7	0.3	1.4	99,188,99	0.3	1.0	0.9	0.5	1.0	1.0	188,99
17 ok	T,s=2,m=78	0.0	8.36e-03	4.15e-05	6.72e-04	211,210,213	7.16e-03	1.0	0.9	7.16e-03	1.0	1.0	210,210
		220.0	0.4	0.2	0.4	100,240,99	0.2	1.0	0.9	0.1	1.0	1.0	240,99
18 ok	T,s=2,m=78	0.0	0.9	0.4	1.0	100,234,99	0.5	1.0	0.6	0.7	1.0	1.0	234,99
		326.5	2.79e-03	3.88e-06	4.57e-03	233,236,216	3.16e-03	1.0	0.6	3.16e-03	1.0	1.0	236,236
19 NV	T,s=2,m=78	0.0	0.9	0.5	2.1	100,226,99	0.5	1.0	0.9	0.7	1.0	1.0	226,99
		224.3	8.33e-04	0.0	6.41e-03	237,240,236	4.36e-04	1.0	0.9	4.36e-04	1.0	1.0	240,240
20 ok	T,s=2,m=78	0.0	4.35e-02	3.60e-02	4.16e-02	100,35,100				7.27e-03	1.0	1.0	0,236
		50.6	7.29e-02	7.08e-02	1.02e-02	215,211,212				7.83e-03	1.0	1.0	0,236
21 ok	T,s=2,m=78	0.0	7.30e-02	7.23e-02	3.39e-02	100,215,100				5.62e-03	1.0	1.0	0,235
		50.6	9.45e-02	9.40e-02	8.04e-03	100,215,214				8.38e-03	1.0	1.0	0,100
22 ok	T,s=2,m=78	0.0	9.48e-02	9.40e-02	1.87e-02	100,215,215				1.90e-02	1.0	1.0	0,235
		50.6	9.81e-02	9.96e-02	1.91e-02	100,215,214				2.14e-02	1.0	1.0	0,235
23 ok	T,s=5,m=78	0.0	0.1	0.3	0.2	216,105,105				7.64e-02	1.0	1.0	0,107
		145.0	8.74e-03	6.04e-03	5.02e-02	211,107,105				4.87e-03	1.0	1.0	0,210
24 ok	T,s=5,m=78	0.0	8.83e-02	0.2	0.3	225,105,105	0.2	0.9	0.6	5.94e-02	1.0	1.0	105,105
		660.0	0.1	0.3	0.4	216,105,107	0.3	0.9	0.6	7.67e-02	1.0	1.0	107,107
25 ok	T,s=5,m=78	0.0	4.02e-03	5.12e-03	3.32e-02	215,105,105				7.77e-04	1.0	1.0	0,210
		145.0	0.2	0.2	0.2	84,105,105				5.88e-02	1.0	1.0	0,105
26 ok	T,s=5,m=78	0.0	0.5	0.4	0.9	99,67,99				0.3	1.0	1.0	0,99
		145.0	3.65e-03	1.62e-03	0.2	215,239,99				1.87e-03	1.0	1.0	0,209
27 NV	T,s=5,m=78	0.0	0.5	0.5	1.4	99,51,99	0.5	0.9	0.6	0.3	1.0	1.0	51,99
		660.0	0.5	0.5	1.4	99,51,100	0.5	0.9	0.6	0.3	1.0	1.0	51,99

28 ok	T,s=2,m=78	0.0	7.52e-04	0.0	2.80e-04	219,218,217	6.51e-04	1.0	0.8	6.51e-04	1.0	1.0	218,218
		276.7	0.3	0.1	0.1	107,218,105	0.1	1.0	0.8	7.77e-02	1.0	1.0	218,105
29 ok	T,s=2,m=78	0.0	8.30e-04	0.0	5.09e-04	240,237,240	8.77e-04	1.0	0.9	8.77e-04	1.0	1.0	237,237
		220.0	0.1	0.3	0.4	240,107,105	0.3	1.0	0.9	0.1	1.0	1.0	107,107
30 ok	T,s=2,m=78	0.0	3.74e-03	6.80e-06	2.68e-05	226,227,221	2.90e-03	1.0	0.9	2.90e-03	1.0	1.0	227,227
		220.0	0.2	5.99e-02	9.78e-02	107,227,105	6.25e-02	1.0	0.9	3.24e-02	1.0	1.0	227,105
31 ok	T,s=2,m=78	0.0	0.1	0.4	0.3	221,107,105	0.4	1.0	0.6	0.2	1.0	1.0	107,107
		326.5	5.38e-04	2.84e-06	2.58e-04	237,107,216	2.70e-03	1.0	0.6	2.70e-03	1.0	1.0	107,107
32 ok	T,s=2,m=78	0.0	0.2	0.4	0.5	234,107,105	0.4	1.0	0.9	0.2	1.0	1.0	107,107
		224.3	1.02e-03	1.75e-06	1.32e-03	210,211,240	1.48e-03	1.0	0.9	1.48e-03	1.0	1.0	211,211
33 NV	T,s=2,m=78	0.0	0.7	0.5	1.3	99,11,99				0.5	1.0	1.0	0,99
		52.0	0.4	0.3	0.8	100,11,99				0.2	1.0	1.0	0,100
34 ok	T,s=2,m=78	0.0	0.4	0.4	0.7	100,28,100				0.2	1.0	1.0	0,100
		48.0	0.2	0.2	0.4	100,28,100				4.60e-02	1.0	1.0	0,100
35 ok	T,s=2,m=78	0.0	0.2	0.2	0.4	18,100,100				4.62e-02	1.0	1.0	0,100
		48.0	7.22e-02	9.77e-02	0.1	18,100,100				9.68e-03	1.0	1.0	0,100
36 ok	T,s=2,m=78	0.0	6.66e-02	9.77e-02	0.1	237,100,99				9.80e-03	1.0	1.0	0,100
		48.0	4.84e-02	3.76e-02	1.23e-02	221,100,99				2.58e-03	1.0	1.0	0,224
37 ok	T,s=2,m=78	0.0	4.74e-02	3.76e-02	2.89e-02	221,100,99				2.61e-03	1.0	1.0	0,216
		48.0	5.41e-02	2.99e-02	7.67e-03	221,224,100				3.17e-03	1.0	1.0	0,224
38 ok	T,s=2,m=78	0.0	6.35e-02	3.00e-02	2.67e-03	221,224,224				9.48e-03	1.0	1.0	0,224
		48.0	8.60e-02	4.49e-02	5.60e-02	221,28,99				9.43e-03	1.0	1.0	0,224
39 ok	T,s=2,m=78	0.0	8.45e-02	2.94e-02	5.82e-02	221,224,218				6.60e-03	1.0	1.0	0,224
		60.0	7.20e-02	5.39e-02	7.05e-02	227,211,219				7.18e-03	1.0	1.0	0,219
40 ok	T,s=2,m=78	0.0	7.22e-02	7.21e-02	1.81e-02	227,231,233				8.01e-03	1.0	1.0	0,219
		47.0	4.82e-02	4.70e-02	9.19e-03	100,231,236				6.94e-03	1.0	1.0	0,224
41 ok	T,s=2,m=78	0.0	0.1	0.2	6.91e-02	220,99,100				4.03e-02	1.0	1.0	0,99
		52.0	0.1	0.2	6.04e-04	220,99,237				2.88e-02	1.0	1.0	0,99
42 ok	T,s=2,m=78	0.0		0.2	0.3	0,99,100				3.10e-02	1.0	1.0	0,99
		48.0		7.12e-02	7.15e-02	0,99,100				8.32e-03	1.0	1.0	0,99
43 ok	T,s=2,m=78	0.0		7.12e-02	0.1	0,99,99				7.57e-03	1.0	1.0	0,99
		48.0		2.18e-02	8.30e-03	0,99,99				2.99e-03	1.0	1.0	0,99
44 ok	T,s=2,m=78	0.0		2.18e-02	4.67e-02	0,99,99				2.73e-03	1.0	1.0	0,99
		48.0		1.16e-02	3.92e-03	0,240,100				2.25e-03	1.0	1.0	0,99
45 ok	T,s=2,m=78	0.0		1.16e-02	1.52e-02	0,240,99				1.31e-03	1.0	1.0	0,27
		48.0		1.88e-02	2.11e-02	0,237,100				1.32e-03	1.0	1.0	0,99
46 ok	T,s=2,m=78	0.0	1.85e-02	1.88e-02	5.31e-03	240,237,240				1.07e-03	1.0	1.0	0,229
		48.0	2.23e-02	4.87e-02	6.13e-02	240,237,100				2.96e-03	1.0	1.0	0,237
47 ok	T,s=2,m=78	0.0	4.92e-02	3.04e-02	1.00e-02	237,218,218				2.27e-03	1.0	1.0	0,237
		60.0	6.78e-02	5.19e-02	6.92e-02	233,27,100				4.47e-03	1.0	1.0	0,233
48 ok	T,s=2,m=78	0.0	6.72e-02	6.35e-02	3.20e-02	233,239,100				4.71e-03	1.0	1.0	0,100
		47.0	5.67e-02	5.48e-02	6.36e-03	233,239,27				3.25e-03	1.0	1.0	0,100
49 ok	T,s=2,m=78	0.0	0.3		0.3	107,0,107				0.1	1.0	1.0	0,105
		52.0	0.2		0.2	105,0,107				4.43e-02	1.0	1.0	0,105
50 ok	T,s=2,m=78	0.0	0.2	0.2	0.2	105,107,107				4.43e-02	1.0	1.0	0,105
		48.0	0.1	0.1	8.23e-02	105,107,107				1.53e-02	1.0	1.0	0,105
51 ok	T,s=2,m=78	0.0	0.1	4.37e-02	9.81e-02	105,224,107				1.53e-02	1.0	1.0	0,105
		48.0	6.37e-02	1.87e-02	3.33e-02	105,238,107				3.94e-03	1.0	1.0	0,105
52 ok	T,s=2,m=78	0.0	6.28e-02	5.57e-02	4.11e-02	105,33,105				3.94e-03	1.0	1.0	0,105
		48.0	2.83e-02	2.47e-02	5.21e-03	105,33,105				7.97e-04	1.0	1.0	0,105
53 ok	T,s=2,m=78	0.0	2.83e-02	2.47e-02	1.52e-02	105,33,105				1.15e-03	1.0	1.0	0,240
		48.0	1.57e-02	1.48e-02	1.31e-03	237,240,221				1.32e-03	1.0	1.0	0,240
54 ok	T,s=2,m=78	0.0	1.63e-02	1.48e-02	5.69e-03	237,240,105				1.41e-03	1.0	1.0	0,240
		48.0	2.18e-02	1.53e-02	5.08e-03	237,240,107				1.41e-03	1.0	1.0	0,240
55 ok	T,s=2,m=78	0.0	2.19e-02	1.53e-02	4.79e-03	237,240,105				1.07e-03	1.0	1.0	0,240
		60.0	1.98e-02	6.50e-03	1.18e-02	107,183,107				8.73e-04	1.0	1.0	0,236
56 ok	T,s=2,m=78	0.0	2.02e-02	6.50e-03	1.95e-02	107,183,107				1.60e-03	1.0	1.0	0,216
		47.0	3.00e-03	2.55e-06	1.77e-03	213,216,237				1.60e-03	1.0	1.0	0,216
57 ok	T,s=5,m=78	0.0	1.04e-02	1.07e-02	0.2	99,209,99				4.93e-04	1.0	1.0	0,67
		145.0	0.5	0.5	0.8	99,51,99				0.3	1.0	1.0	0,99
58 ok	T,s=2,m=78	0.0	6.55e-02	5.76e-02	0.1	100,221,237				4.21e-03	1.0	1.0	0,99
		55.4	5.28e-02	3.41e-02	7.20e-02	224,232,237				2.71e-03	1.0	1.0	0,220
59 ok	T,s=2,m=78	0.0	4.67e-02	5.20e-02	2.95e-02	219,220,235				3.29e-03	1.0	1.0	0,220
		55.4	2.19e-02	3.28e-02	2.09e-02	237,240,226				2.16e-03	1.0	1.0	0,228
60 ok	T,s=2,m=78	0.0	2.13e-02	3.26e-02	9.27e-03	237,240,99				1.71e-03	1.0	1.0	0,232
		55.4	1.68e-02	2.36e-02	6.14e-03	237,240,229				1.28e-03	1.0	1.0	0,228
61 ok	T,s=2,m=78	0.0	2.37e-02	2.26e-02	7.31e-03	240,232,100				1.37e-03	1.0	1.0	0,213
		55.4	1.62e-02	1.54e-02	5.65e-03	240,232,225				1.35e-03	1.0	1.0	0,210
62 NV	T,s=2,m=78	0.0	0.5	0.3	1.5	99,216,100				0.2	1.0	1.0	0,99
		50.6	0.8	0.3	2.0	100,202,100				0.7	1.0	1.0	0,99
63 ok	T,s=2,m=78	0.0	0.2	0.3	0.6	215,99,99				7.72e-02	1.0	1.0	0,100
		50.6	0.3	0.5	0.9	215,99,99				0.2	1.0	1.0	0,99
64 ok	T,s=2,m=78	0.0	9.02e-02	0.1	0.2	215,100,99				2.22e-02	1.0	1.0	0,100
		50.6	0.2	0.3	0.4	215,99,99				7.71e-02	1.0	1.0	0,100
65 ok	T,s=2,m=78	0.0	5.17e-02	8.07e-02	2.45e-02	216,100,99				6.82e-03	1.0	1.0	0,100
		50.6	9.07e-02	0.1	0.1	215,100,99				2.20e-02	1.0	1.0	0,100
66 ok	T,s=2,m=78	0.0	4.53e-02	5.14e-02	2.98e-03	27,100,209				2.70e-03	1.0	1.0	0,100

		50.6	7.13e-02	8.07e-02	4.44e-02	27,100,99	6.57e-03	1.0	1.0	0,100
67 ok	T,s=2,m=78	0.0	0.1	0.1	3.00e-02	100,235,215	1.94e-02	1.0	1.0	0,100
		57.6	0.2	0.2	0.3	100,235,100	6.08e-02	1.0	1.0	0,100
68 ok	T,s=2,m=78	0.0	8.08e-02	3.32e-02	9.00e-03	100,178,214	6.17e-03	1.0	1.0	0,100
		57.6	0.1	4.45e-02	0.2	100,218,100	1.94e-02	1.0	1.0	0,100
69 ok	T,s=2,m=78	0.0	3.70e-02	0.2	1.14e-02	226,100,237	6.26e-02	1.0	1.0	0,100
		51.1	5.07e-02	0.3	0.2	226,99,99	9.44e-02	1.0	1.0	0,99
70 ok	T,s=2,m=78	0.0		0.3	4.74e-02	0,99,100	9.85e-02	1.0	1.0	0,99
		51.1		0.3	2.12e-02	0,99,234	9.08e-02	1.0	1.0	0,99
71 ok	T,s=2,m=78	0.0	4.42e-02	1.91e-02	1.03e-02	100,186,99	3.40e-03	1.0	1.0	0,234
		57.6	7.91e-02	3.31e-02	0.1	100,178,100	6.17e-03	1.0	1.0	0,100
72 ok	T,s=2,m=78	0.0	0.3	0.3	0.4	100,43,99	0.1	1.0	1.0	0,100
		55.4	0.2	0.1	0.2	100,44,99	3.78e-02	1.0	1.0	0,100
73 ok	T,s=2,m=78	0.0	7.89e-02	0.2	0.2	199,100,99	3.85e-02	1.0	1.0	0,100
		55.4	3.45e-02	0.1	5.96e-02	199,100,99	1.10e-02	1.0	1.0	0,100
74 ok	T,s=2,m=78	0.0	3.44e-02	0.1	6.18e-02	199,100,100	1.10e-02	1.0	1.0	0,100
		55.4	1.42e-02	5.21e-02	9.35e-03	199,100,100	4.12e-03	1.0	1.0	0,232
75 ok	T,s=2,m=78	0.0	1.89e-02	5.21e-02	2.78e-02	15,100,100	4.07e-03	1.0	1.0	0,220
		55.4	9.50e-03	2.88e-02	2.80e-03	15,240,228	2.73e-03	1.0	1.0	0,220
76 ok	T,s=2,m=78	0.0	0.2	7.25e-02	1.18e-02	99,240,218	2.67e-02	1.0	1.0	0,99
		59.1	0.2	7.45e-02	1.02e-02	99,240,219	2.60e-02	1.0	1.0	0,99
77 ok	T,s=2,m=78	0.0	0.1	0.2	0.1	219,99,99	2.86e-02	1.0	1.0	0,99
		59.1	7.76e-02	8.12e-02	3.34e-02	219,100,99	9.13e-03	1.0	1.0	0,100
78 ok	T,s=2,m=78	0.0	7.68e-02	8.12e-02	4.97e-02	219,100,99	1.06e-02	1.0	1.0	0,100
		59.1	3.51e-02	3.72e-02	1.06e-02	219,100,219	5.36e-03	1.0	1.0	0,100
79 ok	T,s=2,m=78	0.0	3.61e-02	3.72e-02	1.59e-02	219,100,99	4.61e-03	1.0	1.0	0,100
		59.1	1.57e-02	2.34e-02	4.00e-03	224,100,222	4.17e-03	1.0	1.0	0,218
80 ok	T,s=2,m=78	0.0	0.3	0.1	0.3	105,209,107	7.93e-02	1.0	1.0	0,105
		50.6	0.4	0.2	0.4	107,209,107	0.2	1.0	1.0	0,107
81 ok	T,s=2,m=78	0.0	0.2	7.04e-02	0.1	107,213,105	3.05e-02	1.0	1.0	0,107
		50.6	0.3	0.1	0.2	105,213,105	7.93e-02	1.0	1.0	0,105
82 ok	T,s=2,m=78	0.0	0.1	2.84e-02	5.89e-02	107,189,105	1.01e-02	1.0	1.0	0,107
		50.6	0.2	7.04e-02	0.1	107,213,105	3.05e-02	1.0	1.0	0,107
83 ok	T,s=2,m=78	0.0	5.91e-02	1.71e-02	1.68e-02	107,230,107	3.09e-03	1.0	1.0	0,107
		50.6	0.1	2.84e-02	4.35e-02	107,189,107	1.01e-02	1.0	1.0	0,107
84 ok	T,s=2,m=78	0.0	3.39e-02	1.17e-02	2.53e-03	107,226,105	1.80e-03	1.0	1.0	0,210
		50.6	5.78e-02	1.71e-02	1.68e-02	107,230,105	3.09e-03	1.0	1.0	0,107
85 ok	T,s=2,m=78	0.0	0.3	8.45e-02	0.1	107,178,105	0.1	1.0	1.0	0,107
		51.1	0.4	0.2	0.2	107,232,105	0.2	1.0	1.0	0,105
86 ok	T,s=2,m=78	0.0	0.3	6.65e-02	2.82e-02	107,196,105	7.57e-02	1.0	1.0	0,107
		51.1	0.3	8.15e-02	0.1	107,210,105	0.1	1.0	1.0	0,107
87 ok	T,s=2,m=78	0.0	0.2	3.65e-02	7.32e-02	107,182,107	2.72e-02	1.0	1.0	0,107
		57.6	0.3	6.65e-02	0.2	107,196,107	7.57e-02	1.0	1.0	0,107
88 ok	T,s=2,m=78	0.0	9.53e-02	3.19e-02	2.25e-02	107,178,107	8.31e-03	1.0	1.0	0,107
		57.6	0.2	3.85e-02	0.1	107,178,107	2.72e-02	1.0	1.0	0,107
89 ok	T,s=2,m=78	0.0	9.65e-02	0.2	8.58e-02	70,107,105	3.34e-02	1.0	1.0	0,107
		55.4	6.20e-02	0.1	4.59e-02	211,107,105	1.27e-02	1.0	1.0	0,107
90 ok	T,s=2,m=78	0.0	7.39e-02	0.1	4.21e-02	66,107,107	1.22e-02	1.0	1.0	0,107
		55.4	4.06e-02	6.05e-02	1.60e-02	66,107,107	7.51e-03	1.0	1.0	0,226
91 ok	T,s=2,m=78	0.0	3.91e-02	6.05e-02	2.00e-02	216,107,107	4.82e-03	1.0	1.0	0,226
		55.4	2.81e-02	3.09e-02	3.94e-03	224,107,107	4.59e-03	1.0	1.0	0,226
92 ok	T,s=2,m=78	0.0	3.02e-02	3.09e-02	9.41e-03	224,107,107	4.13e-03	1.0	1.0	0,210
		55.4	2.09e-02	1.86e-02	4.27e-04	216,240,219	4.14e-03	1.0	1.0	0,210
93 ok	T,s=2,m=78	0.0	0.3		0.1	107,0,105	7.77e-02	1.0	1.0	0,105
		59.1	0.2		6.30e-02	107,0,105	3.57e-02	1.0	1.0	0,107
94 ok	T,s=2,m=78	0.0	0.2	5.93e-02	7.17e-02	107,237,105	3.57e-02	1.0	1.0	0,107
		59.1	0.1	3.73e-02	3.48e-02	107,237,105	1.47e-02	1.0	1.0	0,107
95 ok	T,s=2,m=78	0.0	0.1	2.19e-02	4.49e-02	107,185,107	1.47e-02	1.0	1.0	0,107
		59.1	7.24e-02	1.12e-02	1.71e-02	107,185,107	4.67e-03	1.0	1.0	0,107
96 ok	T,s=2,m=78	0.0	7.18e-02	1.12e-02	1.79e-02	107,185,105	4.67e-03	1.0	1.0	0,107
		59.1	4.31e-02	9.81e-03	2.75e-03	107,190,105	1.58e-03	1.0	1.0	0,107
97 ok	T,s=2,m=78	0.0	4.03e-02	4.07e-02	3.88e-02	215,100,100	9.51e-03	1.0	1.0	0,234
		54.4	5.94e-02	5.65e-02	1.22e-02	212,224,234	1.01e-02	1.0	1.0	0,234
98 ok	T,s=2,m=78	0.0	3.33e-02	3.58e-02	8.16e-03	211,100,99	1.47e-03	1.0	1.0	0,100
		54.4	3.62e-02	4.07e-02	1.53e-02	52,100,100	1.84e-03	1.0	1.0	0,100
99 ok	T,s=2,m=78	0.0	8.50e-02	8.49e-02	0.1	224,212,215	2.10e-02	1.0	1.0	0,235
		51.1	3.91e-02	5.61e-02	0.2	220,100,215	2.34e-02	1.0	1.0	0,235
100 ok	T,s=2,m=78	0.0	5.75e-02	5.37e-02	4.43e-03	100,215,99	1.38e-02	1.0	1.0	0,235
		51.1	6.09e-02	6.15e-02	8.21e-03	100,215,100	1.43e-02	1.0	1.0	0,235
101 ok	T,s=2,m=78	0.0	5.55e-02	5.08e-02	8.41e-02	100,219,219	1.04e-02	1.0	1.0	0,219
		55.3	3.12e-02	2.48e-02	5.16e-02	218,219,219	8.41e-03	1.0	1.0	0,219
102 ok	T,s=2,m=78	0.0	3.02e-02	2.48e-02	5.11e-02	218,219,100	7.96e-03	1.0	1.0	0,219
		59.1	5.18e-02	4.54e-02	1.09e-02	100,28,218	7.73e-03	1.0	1.0	0,219
103 ok	T,s=2,m=78	0.0	5.11e-02	4.53e-02	3.27e-02	100,28,100	5.16e-03	1.0	1.0	0,219
		59.1	8.25e-02	7.48e-02	8.31e-03	100,28,219	8.29e-03	1.0	1.0	0,219
104 ok	T,s=2,m=78	0.0	8.45e-02	5.95e-02	2.14e-03	100,219,218	6.79e-03	1.0	1.0	0,100
		59.1	6.92e-02	4.82e-02	1.73e-02	100,219,100	4.37e-03	1.0	1.0	0,100

105 ok	T,s=2,m=78	0.0	7.38e-02	1.94e-02	2.15e-03	100,185,240	4.37e-03	1.0	1.0	0,100
		59.1	4.28e-02	8.87e-03	3.14e-02	100,185,100	1.29e-03	1.0	1.0	0,100
106 ok	T,s=2,m=78	0.0	4.09e-02	1.26e-02	2.06e-02	100,177,100	3.95e-03	1.0	1.0	0,218
		59.1	6.41e-02	6.68e-02	9.07e-02	236,230,100	5.60e-03	1.0	1.0	0,218
107 ok	T,s=2,m=78	0.0	6.66e-02	6.60e-02	1.24e-02	236,238,231	1.39e-02	1.0	1.0	0,218
		52.6	4.41e-02	3.51e-02	1.29e-02	227,226,231	1.31e-02	1.0	1.0	0,218
108 ok	T,s=2,m=78	0.0	4.18e-02	3.51e-02	7.80e-03	28,226,228	1.11e-02	1.0	1.0	0,218
		52.6	4.65e-02	5.88e-02	7.80e-03	231,228,228	1.14e-02	1.0	1.0	0,218
109 ok	T,s=2,m=78	0.0	3.25e-02	3.41e-02	7.20e-03	219,218,100	3.43e-03	1.0	1.0	0,218
		52.6	4.08e-02	3.92e-02	4.31e-03	219,218,230	3.69e-03	1.0	1.0	0,218
110 ok	T,s=2,m=78	0.0	2.58e-02	1.12e-02	1.70e-04	212,234,224	2.10e-03	1.0	1.0	0,209
		54.4	3.35e-02	1.16e-02	7.52e-03	107,234,105	2.05e-03	1.0	1.0	0,209
111 ok	T,s=2,m=78	0.0	2.59e-02	1.19e-02	3.51e-04	212,217,105	3.28e-03	1.0	1.0	0,214
		54.4	2.75e-02	1.12e-02	4.50e-03	212,234,107	3.25e-03	1.0	1.0	0,214
112 ok	T,s=2,m=78	0.0	2.52e-02	1.53e-02	6.33e-04	224,221,105	3.24e-03	1.0	1.0	0,214
		54.4	2.59e-02	1.19e-02	3.90e-03	212,217,107	3.23e-03	1.0	1.0	0,214
113 ok	T,s=2,m=78	0.0	2.33e-02	1.78e-02	7.42e-04	224,221,105	2.98e-03	1.0	1.0	0,214
		54.4	2.50e-02	1.53e-02	3.75e-03	224,221,107	2.98e-03	1.0	1.0	0,214
114 ok	T,s=2,m=78	0.0	1.92e-02	1.84e-02	9.13e-04	237,233,105	2.56e-03	1.0	1.0	0,210
		54.4	2.28e-02	1.78e-02	3.29e-03	224,221,107	2.58e-03	1.0	1.0	0,210
115 ok	T,s=2,m=78	0.0	1.27e-02	1.22e-02	1.49e-03	237,233,221	2.12e-03	1.0	1.0	0,210
		54.4	1.92e-02	1.84e-02	2.24e-03	237,233,105	2.15e-03	1.0	1.0	0,210
116 ok	T,s=2,m=78	0.0	1.01e-03	0.0	3.13e-03	211,210,107	6.28e-04	1.0	1.0	0,210
		54.4	1.27e-02	1.22e-02	2.09e-03	237,233,240	6.37e-04	1.0	1.0	0,210
117 ok	T,s=2,m=78	0.0	3.84e-02	2.88e-02	3.47e-03	212,59,97	2.12e-03	1.0	1.0	0,214
		54.4	5.16e-02	3.86e-02	2.44e-02	100,59,99	2.64e-03	1.0	1.0	0,100
118 ok	T,s=2,m=78	0.0	3.31e-02	2.40e-02	5.23e-03	212,232,99	3.94e-03	1.0	1.0	0,214
		54.4	3.97e-02	2.94e-02	2.01e-02	212,83,100	3.98e-03	1.0	1.0	0,214
119 ok	T,s=2,m=78	0.0	3.01e-02	2.39e-02	5.70e-03	212,240,99	3.63e-03	1.0	1.0	0,214
		54.4	3.31e-02	2.40e-02	1.95e-02	212,228,100	3.62e-03	1.0	1.0	0,214
120 ok	T,s=2,m=78	0.0	2.82e-02	2.66e-02	6.13e-03	224,240,99	3.15e-03	1.0	1.0	0,214
		54.4	2.98e-02	2.39e-02	1.89e-02	212,240,100	3.13e-03	1.0	1.0	0,214
121 ok	T,s=2,m=78	0.0	2.73e-02	2.77e-02	6.88e-03	237,240,99	2.54e-03	1.0	1.0	0,214
		54.4	2.80e-02	2.66e-02	1.80e-02	224,240,100	2.53e-03	1.0	1.0	0,214
122 ok	T,s=2,m=78	0.0	2.54e-02	2.20e-02	9.74e-03	237,240,209	2.19e-03	1.0	1.0	0,214
		54.4	2.72e-02	2.78e-02	1.51e-02	237,240,100	2.21e-03	1.0	1.0	0,214
123 ok	T,s=2,m=78	0.0	3.74e-03	2.84e-03	1.61e-02	215,234,237	5.71e-04	1.0	1.0	0,214
		54.4	2.44e-02	1.95e-02	1.43e-02	237,221,240	6.91e-04	1.0	1.0	0,213
124 ok	T,s=2,m=78	0.0	6.05e-02	6.14e-02	2.01e-02	100,215,100	9.54e-03	1.0	1.0	0,235
		51.1	4.34e-02	5.07e-02	9.81e-04	100,235,221	8.97e-03	1.0	1.0	0,235
125 ok	T,s=2,m=78	0.0	5.06e-02	5.06e-02	2.06e-02	215,235,100	4.42e-03	1.0	1.0	0,235
		51.1	4.35e-02	5.13e-02	2.04e-03	215,235,237	4.46e-03	1.0	1.0	0,235
126 ok	T,s=2,m=78	0.0	5.52e-02	2.92e-02	1.70e-02	235,234,100	3.78e-03	1.0	1.0	0,234
		51.1	5.40e-02	4.05e-02	1.37e-03	235,234,237	4.57e-03	1.0	1.0	0,234
127 ok	T,s=2,m=78	0.0	4.16e-02	5.01e-02	3.25e-02	234,235,235	3.26e-03	1.0	1.0	0,235
		71.1	1.08e-03	0.0	2.38e-02	234,235,234	7.68e-04	1.0	1.0	0,235
128 ok	T,s=2,m=78	0.0	2.86e-02	2.60e-02	5.59e-03	212,100,99	8.99e-04	1.0	1.0	0,240
		54.4	3.33e-02	3.58e-02	2.00e-02	211,100,100	1.34e-03	1.0	1.0	0,100
129 ok	T,s=2,m=78	0.0	2.94e-02	2.84e-02	6.17e-03	224,240,224	1.09e-03	1.0	1.0	0,240
		54.4	2.86e-02	2.36e-02	1.97e-02	212,228,100	7.93e-04	1.0	1.0	0,240
130 ok	T,s=2,m=78	0.0	3.30e-02	3.61e-02	1.04e-02	224,240,224	1.50e-03	1.0	1.0	0,240
		54.4	2.94e-02	2.84e-02	1.90e-02	224,240,100	1.01e-03	1.0	1.0	0,240
131 ok	T,s=2,m=78	0.0	3.64e-02	3.56e-02	1.20e-02	237,240,209	1.36e-03	1.0	1.0	0,240
		54.4	3.29e-02	3.61e-02	1.83e-02	224,240,100	1.40e-03	1.0	1.0	0,240
132 ok	T,s=2,m=78	0.0	8.42e-03	7.85e-03	2.31e-02	234,235,237	3.76e-04	1.0	1.0	0,233
		54.4	3.63e-02	3.56e-02	2.31e-02	240,237,240	1.57e-03	1.0	1.0	0,237
133 ok	T,s=2,m=78	0.0	4.96e-02	1.59e-02	3.36e-03	107,178,235	2.17e-03	1.0	1.0	0,107
		57.6	9.42e-02	3.19e-02	5.89e-02	107,178,107	8.31e-03	1.0	1.0	0,107
134 ok	T,s=2,m=78	0.0	2.35e-02	7.96e-03	6.62e-04	107,210,233	1.19e-03	1.0	1.0	0,234
		57.6	4.89e-02	1.59e-02	3.22e-02	107,178,107	2.17e-03	1.0	1.0	0,107
135 ok	T,s=2,m=78	0.0	8.40e-03	1.58e-03	2.89e-03	107,240,105	9.77e-04	1.0	1.0	0,236
		57.6	2.23e-02	3.24e-03	1.99e-02	107,180,107	9.79e-04	1.0	1.0	0,236
136 ok	T,s=2,m=78	0.0	1.74e-03	1.39e-06	5.16e-03	225,228,105	1.18e-03	1.0	1.0	0,228
		57.6	7.93e-03	3.59e-03	1.42e-02	107,67,107	1.18e-03	1.0	1.0	0,228
137 ok	T,s=2,m=78	0.0	4.65e-02	3.92e-02	1.44e-03	219,218,221	8.67e-03	1.0	1.0	0,218
		52.6	3.81e-02	2.96e-02	1.43e-03	219,218,224	8.25e-03	1.0	1.0	0,218
138 ok	T,s=2,m=78	0.0	3.25e-02	2.95e-02	1.11e-02	219,218,218	2.99e-03	1.0	1.0	0,218
		52.6	2.45e-03	4.73e-06	1.15e-02	219,218,219	2.18e-03	1.0	1.0	0,218
139 ok	T,s=2,m=78	0.0	4.22e-02		6.00e-03	107,0,105	1.58e-03	1.0	1.0	0,107
		59.1	3.21e-02		9.16e-04	107,0,221	8.82e-04	1.0	1.0	0,107
140 ok	T,s=2,m=78	0.0	3.12e-02		4.26e-03	107,0,107	8.82e-04	1.0	1.0	0,107
		52.6	2.32e-02		1.07e-03	107,0,230	4.69e-04	1.0	1.0	0,107
141 ok	T,s=2,m=78	0.0	2.21e-02	6.03e-03	3.38e-03	107,184,107	8.20e-04	1.0	1.0	0,219
		52.6	2.33e-02	8.68e-03	6.03e-04	218,219,218	8.92e-04	1.0	1.0	0,219
142 ok	T,s=2,m=78	0.0	2.48e-02	1.07e-02	2.16e-02	100,210,99	5.14e-04	1.0	1.0	0,100
		57.6	4.57e-02	1.83e-02	7.94e-02	100,210,100	1.90e-03	1.0	1.0	0,100
143 ok	T,s=2,m=78	0.0	1.06e-02	8.18e-03	2.89e-02	227,213,99	1.73e-03	1.0	1.0	0,226

		57.6	2.43e-02	1.53e-02	6.64e-02	100,213,100	1.73e-03	1.0	1.0	0,226
144 ok	T,s=2,m=78	0.0	2.89e-03	3.43e-04	3.39e-02	227,214,99	1.38e-03	1.0	1.0	0,226
		57.6	1.02e-02	8.23e-03	5.84e-02	100,213,100	1.38e-03	1.0	1.0	0,226
145 ok	T,s=2,m=78	0.0	2.28e-02	8.68e-03	3.58e-03	218,219,107	5.01e-04	1.0	1.0	0,231
		52.6	2.54e-02	1.65e-02	5.24e-04	218,219,221	5.81e-04	1.0	1.0	0,218
146 ok	T,s=2,m=78	0.0	2.54e-02	1.65e-02	3.32e-03	218,219,107	7.69e-04	1.0	1.0	0,231
		52.6	2.67e-02	2.26e-02	3.75e-04	218,219,105	8.78e-04	1.0	1.0	0,219
147 ok	T,s=2,m=78	0.0	2.66e-02	2.26e-02	2.52e-03	218,219,107	9.58e-04	1.0	1.0	0,219
		52.6	2.33e-02	2.24e-02	5.98e-04	218,219,105	9.48e-04	1.0	1.0	0,219
148 ok	T,s=2,m=78	0.0	2.30e-02	2.24e-02	2.43e-03	218,219,218	8.39e-04	1.0	1.0	0,219
		52.6	1.26e-02	1.30e-02	2.11e-03	218,219,219	5.53e-04	1.0	1.0	0,231
149 ok	T,s=2,m=78	0.0	1.22e-02	1.30e-02	2.79e-03	218,219,218	2.79e-04	1.0	1.0	0,219
		52.6	2.47e-04	0.0	3.32e-03	230,231,219	1.54e-04	1.0	1.0	0,231
150 ok	T,s=2,m=78	0.0	2.04e-02	1.86e-02	4.75e-03	224,240,107	3.45e-03	1.0	1.0	0,210
		55.4	1.35e-02	1.24e-02	3.15e-04	216,240,221	3.45e-03	1.0	1.0	0,210
151 ok	T,s=2,m=78	0.0	1.31e-02	1.24e-02	2.76e-03	216,240,107	3.02e-03	1.0	1.0	0,210
		55.4	7.71e-03	6.88e-03	6.94e-04	216,240,105	3.02e-03	1.0	1.0	0,210
152 ok	T,s=2,m=78	0.0	7.14e-03	6.88e-03	2.03e-03	237,240,105	2.30e-03	1.0	1.0	0,210
		55.4	4.48e-03	3.11e-03	1.20e-03	227,240,107	2.30e-03	1.0	1.0	0,210
153 ok	T,s=2,m=78	0.0	7.37e-03	3.11e-03	1.81e-03	211,240,105	5.64e-03	1.0	1.0	0,210
		55.4	6.62e-03	3.17e-05	1.44e-03	211,210,107	5.63e-03	1.0	1.0	0,210
154 ok	T,s=2,m=78	0.0	2.87e-02	2.88e-02	1.50e-02	224,240,100	2.44e-03	1.0	1.0	0,210
		55.4	1.76e-02	1.79e-02	2.91e-03	224,240,225	2.43e-03	1.0	1.0	0,210
155 ok	T,s=2,m=78	0.0	1.72e-02	1.79e-02	9.99e-03	224,240,100	2.25e-03	1.0	1.0	0,210
		55.4	1.01e-02	1.04e-02	3.43e-03	216,240,225	2.25e-03	1.0	1.0	0,210
156 ok	T,s=2,m=78	0.0	1.14e-02	1.04e-02	8.04e-03	216,240,100	3.32e-03	1.0	1.0	0,210
		55.4	6.05e-03	3.94e-03	4.17e-03	216,240,99	3.32e-03	1.0	1.0	0,210
157 ok	T,s=2,m=78	0.0	5.44e-03	3.95e-03	7.36e-03	216,240,99	2.72e-03	1.0	1.0	0,210
		55.4	3.08e-03	1.26e-04	4.76e-03	211,214,100	2.72e-03	1.0	1.0	0,210
158 ok	T,s=2,m=78	0.0	1.59e-02	1.62e-02	6.78e-03	236,240,100	1.07e-03	1.0	1.0	0,210
		55.4	1.09e-02	1.11e-02	5.39e-03	236,240,225	1.07e-03	1.0	1.0	0,210
159 ok	T,s=2,m=78	0.0	1.15e-02	1.05e-02	6.74e-03	240,232,100	9.72e-04	1.0	1.0	0,213
		55.4	6.55e-03	5.93e-03	5.27e-03	240,232,99	9.59e-04	1.0	1.0	0,213
160 ok	T,s=2,m=78	0.0	9.54e-03	4.89e-03	7.05e-03	224,234,100	4.31e-03	1.0	1.0	0,210
		55.4	6.21e-03	1.95e-03	4.92e-03	224,234,99	4.31e-03	1.0	1.0	0,210
161 ok	T,s=2,m=78	0.0	5.57e-03	1.96e-03	6.51e-03	224,234,99	3.54e-03	1.0	1.0	0,210
		55.4	4.26e-03	1.18e-04	5.32e-03	211,234,100	3.54e-03	1.0	1.0	0,210
162 ok	T,s=2,m=78	0.0	4.88e-02	4.31e-02	1.30e-02	100,28,99	9.44e-03	1.0	1.0	0,224
		58.1	5.73e-02	3.68e-02	6.66e-03	237,28,209	8.78e-03	1.0	1.0	0,224
163 ok	T,s=2,m=78	0.0	5.65e-02	3.95e-02	2.15e-02	227,211,231	5.55e-03	1.0	1.0	0,224
		48.9	3.30e-02	1.96e-02	9.06e-03	233,28,231	5.27e-03	1.0	1.0	0,224
164 ok	T,s=2,m=78	0.0	3.28e-02	1.89e-02	1.39e-02	233,27,100	4.34e-03	1.0	1.0	0,224
		53.5	3.05e-02	1.62e-02	3.41e-03	237,240,214	4.44e-03	1.0	1.0	0,224
165 ok	T,s=2,m=78	0.0	3.02e-02	1.61e-02	1.16e-02	237,240,100	3.59e-03	1.0	1.0	0,224
		53.5	3.70e-02	2.90e-02	1.00e-02	237,240,237	4.14e-03	1.0	1.0	0,224
166 ok	T,s=2,m=78	0.0	3.61e-02	2.87e-02	1.27e-02	237,240,233	3.17e-03	1.0	1.0	0,224
		53.5	3.65e-02	3.24e-02	1.28e-02	237,240,233	3.50e-03	1.0	1.0	0,224
167 ok	T,s=2,m=78	0.0	3.40e-02	3.20e-02	1.92e-02	221,224,237	1.83e-03	1.0	1.0	0,224
		53.5	9.58e-03	7.97e-03	1.92e-02	218,219,240	8.76e-04	1.0	1.0	0,224
168 ok	T,s=2,m=78	0.0	5.68e-02	5.49e-02	3.11e-02	233,239,100	3.16e-03	1.0	1.0	0,233
		58.1	5.73e-02	5.51e-02	2.02e-02	233,231,99	3.24e-03	1.0	1.0	0,233
169 ok	T,s=2,m=78	0.0	5.81e-02	4.52e-02	4.86e-02	233,100,100	3.24e-03	1.0	1.0	0,233
		48.9	4.12e-02	2.66e-02	6.91e-03	233,213,230	2.04e-03	1.0	1.0	0,234
170 ok	T,s=2,m=78	0.0	4.11e-02	2.25e-02	3.86e-02	233,100,100	1.52e-03	1.0	1.0	0,233
		53.5	3.18e-02	2.35e-02	1.02e-02	233,236,99	1.66e-03	1.0	1.0	0,240
171 ok	T,s=2,m=78	0.0	3.17e-02	2.35e-02	2.84e-02	233,236,100	1.77e-03	1.0	1.0	0,236
		53.5	3.17e-02	2.90e-02	1.64e-02	237,240,99	1.95e-03	1.0	1.0	0,240
172 ok	T,s=2,m=78	0.0	3.29e-02	2.90e-02	7.53e-03	233,240,100	3.18e-03	1.0	1.0	0,236
		53.5	2.56e-02	2.34e-02	5.67e-03	233,240,99	2.97e-03	1.0	1.0	0,236
173 ok	T,s=2,m=78	0.0	2.46e-02	2.34e-02	1.52e-02	237,240,233	1.06e-03	1.0	1.0	0,236
		53.5	4.06e-03	3.15e-03	1.45e-02	231,230,236	5.43e-04	1.0	1.0	0,236
174 ok	T,s=2,m=78	0.0	1.82e-03	1.38e-06	2.70e-02	221,224,218	1.17e-03	1.0	1.0	0,224
		55.3	4.35e-02	5.09e-02	3.71e-02	218,219,219	3.22e-03	1.0	1.0	0,219
175 ok	T,s=2,m=78	0.0	4.35e-02	5.09e-02	2.58e-04	218,219,99	3.26e-03	1.0	1.0	0,219
		55.3	3.46e-02	5.68e-02	1.84e-02	218,219,100	4.29e-03	1.0	1.0	0,219
176 ok	T,s=2,m=78	0.0	3.62e-02	5.68e-02	8.33e-04	218,219,219	5.39e-03	1.0	1.0	0,219
		55.3	4.81e-02	5.77e-02	2.05e-02	100,219,100	5.49e-03	1.0	1.0	0,219
177 ok	T,s=2,m=78	0.0	4.83e-02	5.77e-02	3.10e-03	100,219,219	6.74e-03	1.0	1.0	0,219
		55.3	5.52e-02	5.08e-02	9.53e-03	100,219,100	6.00e-03	1.0	1.0	0,219
178 ok	T,s=2,m=78	0.0	4.76e-02	5.86e-02	1.16e-02	231,228,240	9.77e-03	1.0	1.0	0,218
		52.6	4.11e-02	3.41e-02	1.12e-02	225,230,240	9.85e-03	1.0	1.0	0,218
179 ok	T,s=2,m=78	0.0	4.05e-02	3.41e-02	9.15e-03	225,230,226	7.65e-03	1.0	1.0	0,218
		52.6	3.25e-02	3.54e-02	9.15e-03	220,217,226	8.06e-03	1.0	1.0	0,218
180 ok	T,s=2,m=78	0.0	3.08e-02	3.54e-02	9.64e-03	229,217,226	5.92e-03	1.0	1.0	0,218
		52.6	4.83e-02	4.67e-02	9.75e-03	219,218,226	7.11e-03	1.0	1.0	0,218
181 ok	T,s=2,m=78	0.0	4.56e-02	4.67e-02	7.20e-03	219,218,226	5.00e-03	1.0	1.0	0,218
		52.6	4.75e-02	4.58e-02	7.20e-03	219,218,226	5.04e-03	1.0	1.0	0,218

182 ok	T,s=2,m=78	0.0	4.46e-02	4.58e-02	2.75e-02	219,218,218				3.01e-03	1.0	1.0	0,218
		52.6	1.27e-03	2.27e-04	2.67e-02	219,226,218				9.58e-04	1.0	1.0	0,218
183 ok	T,s=2,m=78	0.0	1.68e-02	2.33e-02	4.04e-03	224,100,99				3.63e-03	1.0	1.0	0,218
		59.1	1.39e-02	3.00e-02	1.04e-02	224,100,100				3.94e-03	1.0	1.0	0,218
184 ok	T,s=2,m=78	0.0	1.56e-02	3.00e-02	7.70e-03	224,100,28				3.69e-03	1.0	1.0	0,218
		52.6	1.10e-02	2.62e-02	5.09e-03	212,100,43				3.77e-03	1.0	1.0	0,218
185 ok	T,s=2,m=78	0.0	1.53e-02	2.62e-02	5.67e-03	240,100,100				3.24e-03	1.0	1.0	0,218
		52.6	1.54e-02	2.60e-02	4.84e-03	240,218,230				3.49e-03	1.0	1.0	0,218
186 ok	T,s=2,m=78	0.0	1.71e-02	2.60e-02	1.31e-02	236,218,100				2.86e-03	1.0	1.0	0,218
		52.6	1.81e-02	2.66e-02	4.52e-03	219,218,225				2.95e-03	1.0	1.0	0,218
187 ok	T,s=2,m=78	0.0	1.92e-02	2.66e-02	1.02e-02	230,218,100				1.78e-03	1.0	1.0	0,221
		52.6	3.19e-02	3.41e-02	4.93e-03	219,218,225				2.13e-03	1.0	1.0	0,221
188 ok	T,s=5,m=78	0.0	1.09e-02	2.34e-03	0.2	234,223,100				7.21e-03	1.0	1.0	0,235
		5.0	1.55e-02	1.14e-02	0.2	234,99,100				7.22e-03	1.0	1.0	0,235
189 ok	T,s=3,m=78	0.0	1.52e-02	3.18e-04	2.29e-04	210,235,212				1.18e-02	1.0	1.0	0,211
		45.0	1.86e-02	4.85e-03	2.15e-04	210,212,209				1.19e-02	1.0	1.0	0,211
190 ok	T,s=3,m=78	0.0	1.49e-02	4.81e-03	3.05e-04	214,212,209				8.94e-03	1.0	1.0	0,211
		45.0	1.24e-02	1.10e-03	2.37e-04	210,97,209				8.92e-03	1.0	1.0	0,211
191 ok	T,s=3,m=78	0.0	1.73e-02	9.76e-04	1.77e-04	210,225,212				1.18e-02	1.0	1.0	0,211
		45.0	2.00e-02	5.17e-03	2.36e-04	210,212,212				1.19e-02	1.0	1.0	0,211
192 ok	T,s=3,m=78	0.0	5.10e-03	5.08e-03	2.29e-04	209,212,212				1.16e-03	1.0	1.0	0,227
		45.0	1.65e-03	2.17e-04	2.17e-04	226,70,209				1.16e-03	1.0	1.0	0,227
193 ok	T,s=3,m=78	0.0	8.41e-03	4.00e-04	2.68e-03	210,211,212				6.49e-03	1.0	1.0	0,211
		45.0	2.08e-02	1.78e-02	2.47e-03	209,212,212				6.67e-03	1.0	1.0	0,211
194 ok	T,s=3,m=78	0.0	1.98e-02	1.39e-02	2.41e-03	212,209,212				2.19e-03	1.0	1.0	0,209
		45.0	3.53e-02	2.75e-02	2.22e-03	212,209,212				2.73e-03	1.0	1.0	0,209
195 ok	T,s=3,m=78	0.0	3.41e-02	2.75e-02	5.92e-03	212,209,212				1.49e-03	1.0	1.0	0,209
		45.0	6.63e-02	5.93e-02	5.61e-03	212,209,212				3.39e-03	1.0	1.0	0,209
196 ok	T,s=3,m=78	0.0	7.76e-02	5.94e-02	1.13e-02	212,209,209				1.38e-02	1.0	1.0	0,209
		45.0	0.1	8.73e-02	1.17e-02	212,209,209				1.86e-02	1.0	1.0	0,209
197 ok	T,s=3,m=78	0.0	9.87e-02	9.70e-02	1.22e-02	212,209,212				8.99e-03	1.0	1.0	0,209
		45.0	5.38e-02	5.61e-02	1.18e-02	212,209,212				4.47e-03	1.0	1.0	0,209
198 ok	T,s=3,m=78	0.0	5.90e-02	5.61e-02	5.75e-03	212,209,212				8.75e-03	1.0	1.0	0,209
		45.0	3.34e-02	3.20e-02	5.45e-03	212,209,212				6.72e-03	1.0	1.0	0,209
199 ok	T,s=3,m=78	0.0	3.75e-02	3.21e-02	1.64e-03	212,209,209				1.01e-02	1.0	1.0	0,209
		45.0	2.47e-02	1.84e-02	1.81e-03	212,209,209				9.38e-03	1.0	1.0	0,209
200 ok	T,s=3,m=78	0.0	3.02e-02	1.85e-02	2.97e-03	212,209,209				1.39e-02	1.0	1.0	0,209
		45.0	1.68e-02	7.53e-04	3.19e-03	212,225,209				1.36e-02	1.0	1.0	0,209
201 ok	T,s=3,m=78	0.0	1.48e-02	6.27e-04	8.62e-02	225,212,100				1.01e-02	1.0	1.0	0,228
		60.0	6.63e-02	5.14e-02	2.92e-03	100,228,228				1.28e-02	1.0	1.0	0,228
202 ok	T,s=3,m=78	0.0	6.76e-02	5.13e-02	2.02e-02	100,228,100				6.59e-03	1.0	1.0	0,236
		60.0	6.52e-02	8.02e-02	2.38e-02	100,228,99				1.01e-02	1.0	1.0	0,236
203 ok	T,s=3,m=78	0.0	8.08e-02	2.40e-02	1.63e-02	228,66,225				6.42e-03	1.0	1.0	0,228
		60.0	0.1	1.04e-02	0.1	225,65,99				1.22e-02	1.0	1.0	0,225
204 ok	T,s=3,m=78	0.0	0.1	0.1	9.27e-02	228,225,99				1.12e-02	1.0	1.0	0,225
		60.0	6.63e-02	8.03e-02	1.46e-02	100,225,228				7.17e-03	1.0	1.0	0,225
205 ok	T,s=3,m=78	0.0	7.16e-02	8.05e-02	2.21e-02	100,225,99				1.72e-02	1.0	1.0	0,225
		60.0	7.13e-02	5.04e-02	2.19e-02	100,225,100				1.33e-02	1.0	1.0	0,225
206 ok	T,s=3,m=78	0.0	6.57e-02	5.82e-02	2.69e-03	100,52,225				1.29e-02	1.0	1.0	0,225
		60.0	1.37e-02	4.37e-04	8.71e-02	228,209,100				1.03e-02	1.0	1.0	0,225
207 ok	T,s=3,m=78	0.0	6.59e-03	5.92e-04	2.33e-04	225,218,228				6.19e-03	1.0	1.0	0,228
		60.8	7.62e-03	6.22e-03	1.56e-04	225,228,228				6.22e-03	1.0	1.0	0,228
208 ok	T,s=3,m=78	0.0	6.94e-03	5.34e-03	2.95e-04	230,97,225				1.58e-03	1.0	1.0	0,227
		60.8	2.94e-03	6.02e-03	3.23e-04	210,225,228				1.61e-03	1.0	1.0	0,227
209 ok	T,s=3,m=78	0.0	1.28e-02	6.10e-03	1.45e-04	226,225,225				1.08e-02	1.0	1.0	0,227
		60.8	1.21e-02	5.86e-04	2.20e-04	226,44,225				1.08e-02	1.0	1.0	0,227
210 ok	T,s=2,m=78	0.0	1.21e-02	2.78e-04	2.01e-04	214,67,97	1.29e-02	1.0	0.7	1.29e-02	1.0	1.0	215,215
		288.0	1.22e-02	7.40e-04	2.01e-04	214,69,97	1.29e-02	1.0	0.7	1.29e-02	1.0	1.0	215,215
211 ok	T,s=2,m=78	0.0	1.07e-02	6.10e-04	1.40e-02	210,69,212	9.70e-03	1.0	0.9	9.44e-03	1.0	1.0	211,211
		226.0	0.1	0.1	1.16e-02	209,212,212	0.1	1.0	0.9	2.59e-02	1.0	1.0	212,212
212 ok	T,s=2,m=78	0.0	0.1	0.1	1.21e-02	212,209,212	0.1	1.0	0.9	2.03e-02	1.0	1.0	209,209
		232.0	7.54e-03	4.39e-04	1.10e-02	228,67,209	7.02e-03	1.0	0.9	6.98e-03	1.0	1.0	225,225
213 ok	T,s=2,m=78	0.0	3.74e-03	2.09e-04	0.1	213,212,100	2.87e-03	1.0	0.9	2.67e-03	1.0	1.0	216,216
		232.0	0.2	0.1	0.2	225,228,99	0.1	1.0	0.9	3.17e-02	1.0	1.0	228,225
214 ok	T,s=2,m=78	0.0	0.2	0.2	0.2	228,225,99	0.2	1.0	0.9	3.52e-02	1.0	1.0	225,225
		235.3	7.67e-03	1.20e-04	0.2	226,212,100	6.41e-03	1.0	0.9	6.41e-03	1.0	1.0	227,227
215 ok	T,s=2,m=78	0.0	5.37e-03	1.56e-04	2.16e-04	210,211,97	6.59e-03	1.0	0.7	6.45e-03	1.0	1.0	211,211
		298.5	5.36e-03	6.68e-04	2.16e-04	210,43,97	6.56e-03	1.0	0.7	6.45e-03	1.0	1.0	211,211
216 ok	T,s=5,m=78	0.0	7.55e-03	1.62e-03	0.2	211,239,99				4.30e-03	1.0	1.0	0,210
		5.0	1.23e-02	6.45e-03	0.2	211,230,99				4.31e-03	1.0	1.0	0,210
217 ok	T,s=5,m=78	0.0	4.13e-04	3.85e-04	0.1	212,209,99				4.53e-04	1.0	1.0	0,69
		5.0	1.04e-02	1.07e-02	0.2	99,209,99				5.09e-04	1.0	1.0	0,67
218 ok	T,s=5,m=78	0.0	4.96e-04	4.31e-04	0.1	212,209,99				4.78e-04	1.0	1.0	0,69
		5.0	9.73e-03	8.62e-03	0.1	99,51,99				5.26e-04	1.0	1.0	0,67
219 ok	T,s=5,m=78	0.0	9.08e-03	6.04e-03	5.02e-02	211,107,105				5.17e-03	1.0	1.0	0,210
		5.0	9.22e-03	4.62e-03	4.63e-02	211,226,105				5.18e-03	1.0	1.0	0,210
220 ok	T,s=5,m=78	0.0	1.52e-04	0.0	3.00e-02	93,68,105				2.52e-04	1.0	1.0	0,68

		5.0	4.63e-03	5.12e-03	3.32e-02	81,105,105		2.60e-04	1.0	1.0	0,66
221 ok	T,s=3,m=78	0.0	0.1	8.74e-02	0.2	212,209,212		2.13e-02	1.0	1.0	0,209
		30.0	2.50e-02	9.57e-03	0.2	215,222,212		1.39e-02	1.0	1.0	0,209
222 ok	T,s=3,m=78	0.0	1.99e-02	9.32e-03	0.2	223,222,212		9.50e-03	1.0	1.0	0,222
		30.0	0.1	9.64e-02	0.2	212,209,212		1.65e-02	1.0	1.0	0,209
223 ok	T,s=2,m=78	0.0	2.40e-02	1.40e-02	9.87e-03	212,223,212		7.16e-03	1.0	1.0	0,225
		30.0	9.77e-03	4.33e-03	1.01e-02	228,100,212		7.12e-03	1.0	1.0	0,225
224 ok	T,s=2,m=78	0.0	1.89e-02	4.33e-03	9.41e-03	228,100,212		1.46e-02	1.0	1.0	0,225
		30.0	2.70e-02	1.53e-02	9.67e-03	228,209,212		1.47e-02	1.0	1.0	0,225
225 ok	T,s=2,m=78	0.0	2.78e-02	2.89e-02	1.81e-02	233,225,225		3.57e-03	1.0	1.0	0,211
		30.0	3.07e-02	2.70e-02	2.51e-02	99,51,228		3.57e-03	1.0	1.0	0,211
226 ok	T,s=2,m=78	0.0	3.07e-02	2.70e-02	2.84e-02	99,51,225		1.10e-02	1.0	1.0	0,227
		30.0	4.06e-02	1.91e-02	1.54e-02	230,27,225		1.09e-02	1.0	1.0	0,227
227 ok	T,s=3,m=78	0.0	0.1	0.1	0.2	233,225,228		1.24e-02	1.0	1.0	0,225
		30.0	3.73e-02	1.38e-02	0.3	99,225,228		1.16e-03	1.0	1.0	0,99
228 ok	T,s=3,m=78	0.0	3.53e-02	1.38e-02	0.3	99,225,225		1.16e-03	1.0	1.0	0,99
		30.0	0.1	0.1	0.2	228,225,225		1.10e-02	1.0	1.0	0,228

Elem.	Ver N+/M	Ver N-/M	Ver V/T	Ver N(s)	Kcy	Kcz	Ver M(s)	Kcrit(y)	Kcrit(z)
					0.94	0.61		1.00	1.00
	0.86	0.68	2.14	0.68			0.74		

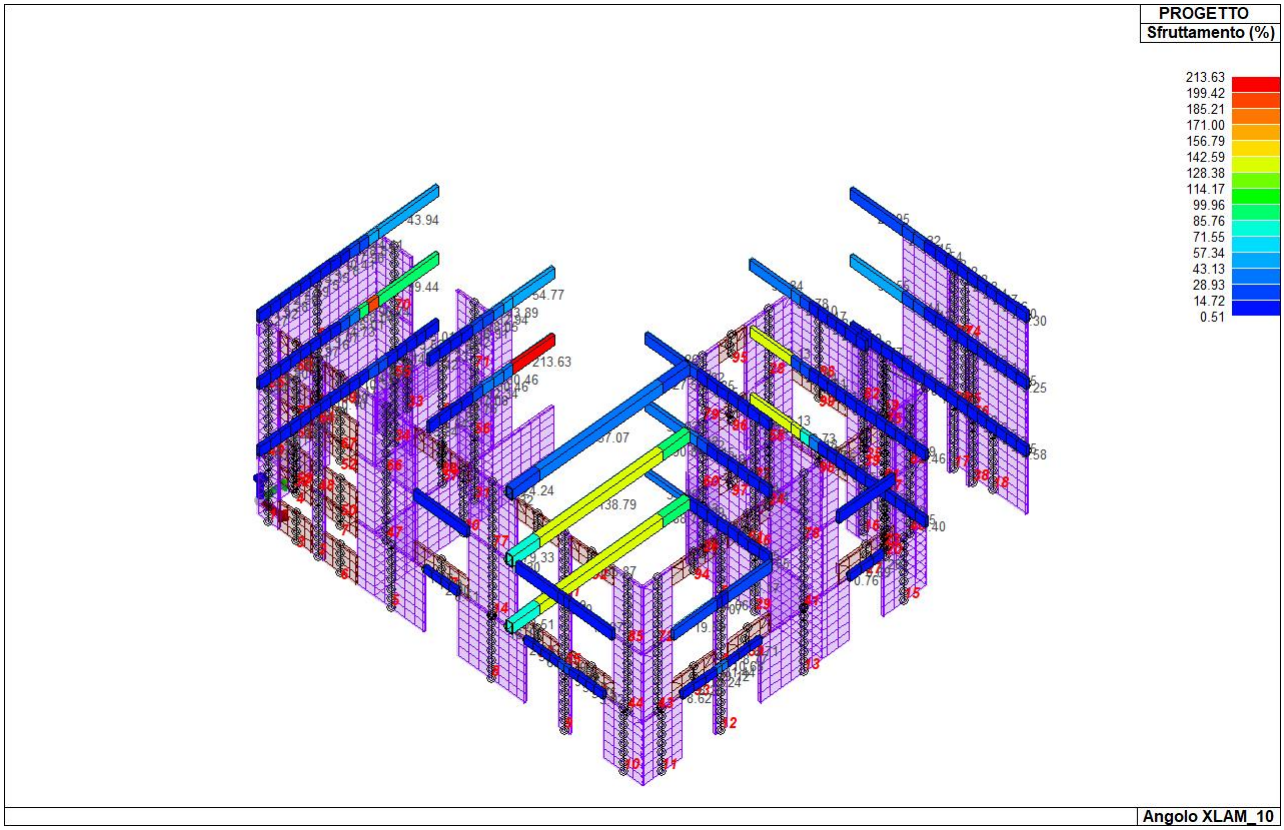
Elem.	w,net R	w,net F	w,net P	Rif. cmb	Kdef	w,net Ri	w,net Fi	w,net Pi	Rif. cmb
8	0.4	0.4	0.4	256,298,310	0.8	0.8	0.7	0.7	256,301,310
9	9.68e-02	6.18e-02	5.66e-02	268,298,310	0.8	0.2	0.1	0.1	268,307,310
10	1.1	0.9	0.9	268,298,310	0.8	2.1	1.9	1.8	268,298,310
11	0.4	0.3	0.3	256,298,310	0.8	0.7	0.6	0.6	256,301,310
12	3.8	3.1	2.9	268,298,310	0.8	6.8	6.1	5.9	268,298,310
13	0.3	0.2	0.2	256,298,310	0.8	0.5	0.4	0.4	256,298,310
14	0.6	0.5	0.5	268,298,310	0.8	1.1	1.0	0.9	268,301,310
15	2.5	2.0	1.9	256,298,310	0.8	4.4	3.9	3.8	256,298,310
16	2.6	2.2	2.0	267,298,310	0.8	4.8	4.3	4.1	267,298,310
17	1.8	1.5	1.4	255,298,310	0.8	3.3	3.0	2.8	255,298,310
18	5.1	4.2	3.9	268,298,310	0.8	9.3	8.3	8.0	268,298,310
19	3.8	3.1	2.9	268,298,310	0.8	6.9	6.1	5.9	268,298,310
20	0.2	0.2	0.2	256,298,310	0.8	0.4	0.4	0.4	256,301,310
21	0.1	7.79e-02	7.32e-02	256,298,310	0.8	0.2	0.2	0.1	256,301,310
22	0.1	0.1	0.1	244,298,310	0.8	0.2	0.2	0.2	244,301,310
23	7.32e-02	4.54e-02	4.07e-02	268,298,310	0.8	0.1	0.1	8.84e-02	268,307,310
24	0.6	0.4	0.3	271,301,310	0.8	1.1	0.9	0.6	271,301,310
25	0.4	0.3	0.3	256,301,310	0.8	0.7	0.6	0.5	256,301,310
26	0.1	8.96e-02	8.29e-02	268,298,310	0.8	0.2	0.2	0.2	268,307,310
27	1.1	0.9	0.9	268,298,310	0.8	2.0	1.8	1.8	268,298,310
28	2.1	1.4	1.2	259,301,310	0.8	3.8	3.1	2.2	259,301,310
29	2.2	1.4	1.2	271,301,310	0.8	3.9	3.1	2.2	271,301,310
30	1.0	0.6	0.6	257,299,309	0.8	1.8	1.4	1.0	257,299,309
31	6.3	4.1	3.6	271,301,310	0.8	11.4	9.2	6.5	271,301,310
32	3.1	2.0	1.8	271,301,310	0.8	5.6	4.5	3.2	271,301,310
33	0.4	0.3	0.3	268,298,310	0.8	0.8	0.6	0.6	268,307,310
34	9.93e-02	6.64e-02	6.16e-02	268,307,310	0.8	0.2	0.1	0.1	268,307,310
35	6.58e-02	4.08e-02	3.62e-02	276,307,310	0.8	0.1	9.47e-02	7.20e-02	276,307,310
36	0.2	0.1	0.1	268,298,310	0.8	0.3	0.3	0.2	268,307,310
37	0.3	0.3	0.2	268,298,310	0.8	0.6	0.5	0.5	268,307,310
38	0.4	0.4	0.3	268,298,310	0.8	0.8	0.7	0.7	268,298,310
39	0.3	0.2	0.2	256,298,310	0.8	0.6	0.5	0.4	256,305,310
40	0.1	9.58e-02	9.04e-02	256,298,310	0.8	0.2	0.2	0.2	256,305,310
41	0.6	0.5	0.4	267,298,310	0.8	1.1	0.9	0.9	267,298,310
42	7.27e-02	4.61e-02	4.21e-02	268,307,310	0.8	0.1	0.1	8.59e-02	268,307,310
43	0.2	0.1	0.1	268,301,310	0.8	0.3	0.3	0.2	268,301,310
44	0.3	0.2	0.2	268,298,310	0.8	0.5	0.4	0.4	268,301,310
45	0.4	0.3	0.3	268,298,310	0.8	0.7	0.6	0.6	268,301,310
46	0.5	0.4	0.4	268,298,310	0.8	0.9	0.8	0.7	268,301,310
47	0.4	0.3	0.3	256,298,310	0.8	0.8	0.7	0.7	256,301,310
48	0.2	0.2	0.1	256,298,310	0.8	0.4	0.3	0.3	256,301,310
49	0.4	0.3	0.3	271,301,310	0.8	0.8	0.6	0.5	271,301,310
50	0.3	0.2	0.2	271,301,310	0.8	0.5	0.4	0.3	271,301,310
51	0.2	0.2	0.2	268,298,310	0.8	0.4	0.3	0.3	268,301,310
52	0.3	0.2	0.2	268,298,310	0.8	0.5	0.4	0.4	268,301,310
53	0.3	0.3	0.3	268,298,310	0.8	0.6	0.5	0.5	268,301,310
54	0.4	0.3	0.3	268,298,310	0.8	0.7	0.6	0.6	268,301,310
55	0.4	0.3	0.3	268,298,310	0.8	0.7	0.6	0.6	268,301,310
56	0.3	0.2	0.2	256,298,310	0.8	0.5	0.4	0.4	256,301,310
57	0.2	0.2	0.2	256,298,310	0.8	0.4	0.3	0.3	256,301,310
58	8.92e-02	6.36e-02	5.92e-02	268,298,310	0.8	0.2	0.1	0.1	268,307,310
59	7.43e-02	5.40e-02	5.06e-02	268,298,310	0.8	0.1	0.1	0.1	268,307,310
60	4.06e-02	2.92e-02	2.73e-02	268,298,310	0.8	7.64e-02	6.29e-02	5.53e-02	268,307,310

61	3.09e-02	2.27e-02	2.13e-02	268,298,310	0.8	5.81e-02	4.74e-02	4.29e-02	268,307,310
62	0.5	0.4	0.3	268,298,310	0.8	0.9	0.7	0.7	268,307,310
63	0.2	0.1	0.1	256,298,310	0.8	0.4	0.3	0.3	256,301,310
64	0.1	0.1	9.52e-02	271,301,310	0.8	0.3	0.2	0.2	271,301,310
65	0.2	0.1	0.1	268,298,310	0.8	0.3	0.3	0.2	268,301,310
66	0.2	0.2	0.1	268,298,310	0.8	0.4	0.3	0.3	268,301,310
67	0.1	7.26e-02	6.52e-02	271,301,310	0.8	0.2	0.2	0.1	271,301,310
68	5.01e-02	3.18e-02	2.99e-02	271,298,310	0.8	9.61e-02	6.49e-02	6.00e-02	271,301,310
69	0.6	0.5	0.5	268,298,310	0.8	1.2	1.0	0.9	268,301,310
70	1.4	1.1	1.0	268,298,310	0.8	2.5	2.2	2.1	268,298,310
71	4.80e-02	4.04e-02	3.79e-02	279,298,310	0.8	8.65e-02	7.87e-02	7.62e-02	279,298,310
72	8.16e-02	5.57e-02	5.01e-02	264,305,310	0.8	0.2	0.1	0.1	264,305,310
73	5.57e-02	3.83e-02	3.55e-02	268,307,310	0.8	0.1	8.60e-02	7.19e-02	268,307,310
74	6.38e-02	4.67e-02	4.37e-02	268,298,310	0.8	0.1	9.78e-02	8.82e-02	268,307,310
75	5.90e-02	4.40e-02	4.14e-02	268,298,310	0.8	0.1	8.97e-02	8.30e-02	268,307,310
76	0.8	0.6	0.6	256,298,310	0.8	1.4	1.2	1.2	256,305,310
77	0.2	0.2	0.2	256,301,310	0.8	0.4	0.4	0.3	256,301,310
78	0.2	0.2	0.2	256,298,310	0.8	0.4	0.3	0.3	256,301,310
79	0.2	0.2	0.2	256,298,310	0.8	0.5	0.4	0.4	256,301,310
80	0.6	0.4	0.3	271,301,310	0.8	1.0	0.8	0.6	271,301,310
81	0.3	0.2	0.2	271,301,310	0.8	0.6	0.5	0.4	271,301,310
82	0.2	0.1	0.1	268,301,310	0.8	0.3	0.3	0.2	268,301,310
83	0.1	0.1	0.1	268,298,310	0.8	0.3	0.2	0.2	268,301,310
84	0.1	0.1	0.1	268,298,310	0.8	0.3	0.2	0.2	268,301,310
85	1.2	0.8	0.7	271,301,310	0.8	2.1	1.7	1.3	271,301,310
86	0.9	0.6	0.6	271,301,310	0.8	1.6	1.4	1.1	271,301,310
87	0.2	0.2	0.1	271,301,310	0.8	0.4	0.4	0.3	271,301,310
88	6.31e-02	4.08e-02	3.78e-02	268,301,310	0.8	0.1	9.15e-02	7.68e-02	268,301,310
89	8.81e-02	5.33e-02	4.71e-02	257,299,309	0.8	0.2	0.1	8.47e-02	257,299,309
90	3.14e-02	2.01e-02	1.81e-02	268,307,310	0.8	6.06e-02	4.74e-02	3.75e-02	268,307,310
91	6.38e-02	4.55e-02	4.31e-02	268,301,310	0.8	0.1	9.69e-02	8.51e-02	268,301,310
92	6.69e-02	4.90e-02	4.65e-02	268,298,310	0.8	0.1	0.1	9.17e-02	268,301,310
93	0.7	0.5	0.5	259,301,310	0.8	1.3	1.1	0.9	259,301,310
94	0.4	0.3	0.3	259,301,310	0.8	0.8	0.7	0.6	259,301,310
95	0.3	0.2	0.2	256,301,310	0.8	0.5	0.4	0.4	256,301,310
96	0.2	0.2	0.2	256,298,310	0.8	0.5	0.4	0.4	256,301,310
97	0.3	0.2	0.2	268,298,310	0.8	0.6	0.5	0.5	268,301,310
98	0.1	0.1	0.1	268,298,310	0.8	0.3	0.2	0.2	268,301,310
99	0.6	0.5	0.5	256,298,310	0.8	1.2	1.0	1.0	256,301,310
100	0.3	0.2	0.2	256,298,310	0.8	0.5	0.4	0.4	256,301,310
101	0.5	0.4	0.4	256,298,310	0.8	1.0	0.8	0.8	256,301,310
102	0.4	0.3	0.3	268,298,310	0.8	0.7	0.7	0.6	268,301,310
103	0.2	0.2	0.2	256,298,310	0.8	0.4	0.4	0.3	256,301,310
104	0.1	7.83e-02	7.41e-02	256,298,310	0.8	0.2	0.2	0.1	256,301,310
105	0.3	0.2	0.2	256,298,310	0.8	0.5	0.4	0.4	256,301,310
106	0.5	0.4	0.4	256,298,310	0.8	0.9	0.8	0.7	256,301,310
107	0.2	0.2	0.2	256,298,310	0.8	0.4	0.4	0.4	256,305,310
108	0.2	0.1	0.1	264,298,310	0.8	0.4	0.2	0.2	264,305,310
109	0.1	0.1	9.43e-02	256,298,310	0.8	0.3	0.2	0.2	256,305,310
110	0.1	0.1	0.1	268,298,310	0.8	0.3	0.2	0.2	268,307,310
111	0.1	0.1	0.1	268,298,310	0.8	0.2	0.2	0.2	268,307,310
112	0.1	9.39e-02	8.97e-02	268,298,310	0.8	0.2	0.2	0.2	268,307,310
113	0.1	8.56e-02	8.16e-02	268,298,310	0.8	0.2	0.2	0.2	268,307,310
114	0.1	8.69e-02	8.28e-02	268,298,310	0.8	0.2	0.2	0.2	268,307,310
115	0.1	9.91e-02	9.44e-02	268,298,310	0.8	0.3	0.2	0.2	268,307,310
116	0.2	0.1	0.1	268,301,310	0.8	0.3	0.2	0.2	268,301,310
117	0.2	0.1	0.1	268,298,310	0.8	0.3	0.3	0.3	268,301,310
118	0.1	0.1	0.1	268,298,310	0.8	0.3	0.2	0.2	268,301,310
119	0.1	9.02e-02	8.63e-02	268,298,310	0.8	0.2	0.2	0.2	268,307,310
120	9.99e-02	7.61e-02	7.26e-02	268,298,310	0.8	0.2	0.2	0.1	268,307,310
121	0.1	7.48e-02	7.12e-02	268,307,310	0.8	0.2	0.2	0.1	268,307,310
122	0.1	8.95e-02	8.48e-02	268,307,310	0.8	0.2	0.2	0.2	268,307,310
123	0.2	0.1	0.1	268,298,310	0.8	0.3	0.3	0.2	268,307,310
124	8.97e-02	7.24e-02	6.93e-02	256,298,310	0.8	0.2	0.1	0.1	256,301,310
125	2.47e-02	1.93e-02	1.85e-02	256,298,310	0.8	4.64e-02	3.88e-02	3.59e-02	256,301,310
126	1.91e-02	1.55e-02	1.43e-02	279,298,310	0.8	3.46e-02	3.05e-02	2.94e-02	279,298,310
127	3.42e-02	2.53e-02	2.35e-02	288,298,310	0.8	6.41e-02	4.98e-02	4.80e-02	288,298,310
128	8.13e-02	6.42e-02	6.14e-02	268,298,310	0.8	0.2	0.1	0.1	268,307,310
129	5.96e-02	4.51e-02	4.30e-02	268,298,310	0.8	0.1	9.33e-02	8.41e-02	268,307,310
130	5.56e-02	4.00e-02	3.74e-02	268,307,310	0.8	0.1	8.64e-02	7.36e-02	268,307,310
131	6.70e-02	4.53e-02	4.12e-02	276,307,310	0.8	0.1	0.1	8.14e-02	276,307,310
132	0.1	8.22e-02	7.62e-02	268,307,310	0.8	0.2	0.2	0.1	268,307,310
133	2.47e-02	1.44e-02	1.22e-02	264,305,310	0.8	4.71e-02	3.56e-02	2.47e-02	264,305,310
134	2.54e-02	1.49e-02	1.27e-02	264,305,310	0.8	4.83e-02	3.67e-02	2.56e-02	264,305,310
135	2.61e-02	1.59e-02	1.37e-02	264,299,309	0.8	4.98e-02	3.79e-02	2.66e-02	264,305,310
136	2.70e-02	1.74e-02	1.62e-02	257,298,310	0.8	4.87e-02	3.89e-02	3.30e-02	257,299,310
137	0.2	0.1	0.1	256,305,310	0.8	0.3	0.2	0.2	256,305,310

138	0.2	0.1	0.1	256,305,310	0.8	0.3	0.3	0.2	256,305,310
139	0.2	0.2	0.2	256,298,310	0.8	0.4	0.4	0.4	256,301,310
140	0.2	0.2	0.1	256,298,310	0.8	0.4	0.3	0.3	256,301,310
141	0.2	0.1	0.1	256,298,310	0.8	0.3	0.3	0.2	256,305,310
142	5.38e-02	4.54e-02	4.26e-02	279,298,310	0.8	9.70e-02	8.84e-02	8.56e-02	279,298,310
143	5.74e-02	4.85e-02	4.55e-02	279,298,310	0.8	0.1	9.44e-02	9.14e-02	279,298,310
144	5.97e-02	5.05e-02	4.74e-02	255,298,310	0.8	0.1	9.83e-02	9.52e-02	255,298,310
145	0.1	0.1	0.1	256,298,310	0.8	0.3	0.2	0.2	256,305,310
146	0.1	9.99e-02	9.42e-02	256,298,310	0.8	0.3	0.2	0.2	256,305,310
147	0.1	0.1	9.76e-02	256,298,310	0.8	0.3	0.2	0.2	256,305,310
148	0.2	0.1	0.1	256,305,310	0.8	0.3	0.2	0.2	256,305,310
149	0.2	0.1	0.1	256,305,310	0.8	0.3	0.3	0.2	256,305,310
150	5.81e-02	4.31e-02	4.10e-02	268,298,310	0.8	0.1	9.10e-02	8.07e-02	268,301,310
151	4.68e-02	3.49e-02	3.31e-02	268,298,310	0.8	8.88e-02	7.34e-02	6.53e-02	268,301,310
152	3.71e-02	2.76e-02	2.61e-02	268,298,310	0.8	7.05e-02	5.81e-02	5.16e-02	268,301,310
153	3.11e-02	2.29e-02	2.16e-02	268,298,310	0.8	5.91e-02	4.82e-02	4.28e-02	268,301,310
154	4.93e-02	3.70e-02	3.49e-02	268,298,310	0.8	9.27e-02	7.56e-02	6.97e-02	268,301,310
155	3.92e-02	2.95e-02	2.78e-02	268,298,310	0.8	7.38e-02	6.06e-02	5.53e-02	268,301,310
156	3.04e-02	2.26e-02	2.14e-02	268,298,310	0.8	5.74e-02	4.70e-02	4.25e-02	268,301,310
157	2.17e-02	1.80e-02	1.67e-02	268,298,310	0.8	4.00e-02	3.54e-02	3.41e-02	268,298,310
158	2.48e-02	1.85e-02	1.74e-02	268,298,310	0.8	4.66e-02	3.77e-02	3.49e-02	268,307,310
159	2.12e-02	1.75e-02	1.63e-02	267,298,310	0.8	3.83e-02	3.44e-02	3.32e-02	267,298,310
160	2.16e-02	1.78e-02	1.66e-02	267,298,310	0.8	3.88e-02	3.50e-02	3.38e-02	267,298,310
161	2.19e-02	1.81e-02	1.69e-02	268,298,310	0.8	3.94e-02	3.56e-02	3.43e-02	268,298,310
162	0.1	8.31e-02	7.87e-02	256,298,310	0.8	0.2	0.2	0.2	256,305,310
163	1.36e-02	1.11e-02	1.03e-02	279,298,310	0.8	2.54e-02	2.19e-02	2.11e-02	264,298,310
164	2.01e-02	1.47e-02	1.37e-02	264,298,310	0.8	3.85e-02	3.05e-02	2.80e-02	264,305,310
165	3.53e-02	2.42e-02	2.22e-02	256,305,310	0.8	6.79e-02	5.45e-02	4.45e-02	256,305,310
166	6.11e-02	4.27e-02	3.95e-02	256,305,310	0.8	0.1	9.42e-02	7.86e-02	256,305,310
167	9.14e-02	6.34e-02	5.81e-02	264,305,310	0.8	0.2	0.1	0.1	264,305,310
168	0.2	0.1	0.1	256,298,310	0.8	0.3	0.3	0.2	256,301,310
169	3.43e-02	2.55e-02	2.36e-02	263,298,310	0.8	6.54e-02	5.48e-02	4.85e-02	263,305,310
170	5.19e-02	3.67e-02	3.43e-02	256,305,310	0.8	9.85e-02	8.09e-02	6.89e-02	256,305,310
171	8.36e-02	6.06e-02	5.68e-02	256,298,310	0.8	0.2	0.1	0.1	256,305,310
172	0.1	7.92e-02	7.46e-02	256,298,310	0.8	0.2	0.2	0.1	256,305,310
173	0.1	8.75e-02	8.26e-02	256,298,310	0.8	0.2	0.2	0.2	256,305,310
174	6.15e-02	4.08e-02	3.68e-02	251,303,310	0.8	0.1	9.22e-02	7.23e-02	251,303,310
175	3.14e-02	2.25e-02	2.10e-02	244,303,310	0.8	6.03e-02	4.86e-02	4.12e-02	244,303,310
176	6.00e-02	4.88e-02	4.65e-02	244,298,310	0.8	0.1	9.86e-02	9.12e-02	244,301,310
177	0.2	0.1	0.1	256,298,310	0.8	0.4	0.3	0.3	256,301,310
178	0.3	8.17e-02	5.28e-02	264,305,310	0.8	0.5	0.3	0.1	264,305,310
179	0.3	8.11e-02	4.55e-02	264,305,310	0.8	0.5	0.3	9.06e-02	264,305,310
180	0.3	7.74e-02	4.46e-02	264,305,310	0.8	0.5	0.3	8.90e-02	264,305,310
181	0.3	7.44e-02	4.59e-02	264,305,310	0.8	0.5	0.3	9.09e-02	264,305,310
182	0.3	7.32e-02	4.52e-02	264,305,310	0.8	0.5	0.3	8.86e-02	264,305,310
183	0.3	0.2	0.2	256,298,310	0.8	0.5	0.5	0.4	256,301,310
184	0.2	0.2	0.2	256,298,310	0.8	0.4	0.3	0.3	256,301,310
185	0.2	0.1	0.1	256,298,310	0.8	0.3	0.3	0.3	256,301,310
186	0.1	8.49e-02	8.01e-02	256,298,310	0.8	0.2	0.2	0.2	256,305,310
187	0.1	8.65e-02	8.16e-02	256,298,310	0.8	0.2	0.2	0.2	256,305,310
188	0.6	0.5	0.5	268,298,310	0.8	1.1	1.0	0.9	268,307,310
189	7.20e-02	4.62e-02	3.97e-02	261,304,309	0.8	0.1	0.1	7.15e-02	261,304,309
190	3.19e-02	6.38e-03	4.40e-03	261,304,310	0.8	5.74e-02	3.19e-02	8.83e-03	261,304,310
191	2.66e-02	1.27e-02	9.52e-03	251,303,310	0.8	4.94e-02	3.43e-02	1.83e-02	251,303,310
192	6.35e-02	4.95e-02	4.61e-02	251,303,310	0.8	0.1	0.1	8.31e-02	251,303,310
193	8.82e-02	6.67e-02	6.20e-02	264,305,310	0.8	0.2	0.1	0.1	264,305,310
194	7.70e-02	5.64e-02	5.21e-02	264,305,310	0.8	0.1	0.1	0.1	264,305,310
195	6.12e-02	4.17e-02	3.77e-02	264,305,310	0.8	0.1	9.49e-02	7.47e-02	264,305,310
196	4.08e-02	2.33e-02	1.97e-02	264,305,310	0.8	7.93e-02	5.98e-02	4.19e-02	264,305,310
197	4.71e-02	3.01e-02	2.64e-02	264,305,310	0.8	8.80e-02	6.89e-02	5.03e-02	264,305,310
198	3.36e-02	1.53e-02	1.14e-02	264,305,310	0.8	6.38e-02	4.32e-02	2.34e-02	264,305,310
199	1.94e-02	1.13e-02	9.27e-03	248,302,309	0.8	3.63e-02	2.68e-02	1.67e-02	264,302,309
200	3.77e-02	2.90e-02	2.68e-02	248,302,309	0.8	6.79e-02	5.92e-02	4.83e-02	248,302,309
201	0.5	0.4	0.4	280,298,310	0.8	0.9	0.8	0.8	280,301,310
202	0.2	0.1	0.1	280,298,310	0.8	0.3	0.3	0.3	280,301,310
203	0.2	0.1	0.1	267,298,310	0.8	0.4	0.3	0.3	267,307,310
204	0.1	0.1	0.1	279,298,310	0.8	0.3	0.2	0.2	279,298,310
205	0.2	0.2	0.2	268,298,310	0.8	0.4	0.3	0.3	268,301,310
206	0.6	0.4	0.4	268,298,310	0.8	1.0	0.9	0.8	268,301,310
207	4.91e-02	1.52e-02	7.56e-03	276,307,310	0.8	9.38e-02	5.70e-02	1.90e-02	276,307,310
208	7.16e-02	3.77e-02	3.02e-02	276,307,310	0.8	0.1	9.77e-02	6.05e-02	276,307,310
209	9.27e-02	5.78e-02	5.01e-02	276,307,310	0.8	0.2	0.1	9.63e-02	276,307,310
210	3.78e-02	2.11e-02	1.77e-02	251,303,310	0.8	7.22e-02	5.22e-02	3.53e-02	251,303,310
211	0.1	0.1	0.1	256,298,310	0.8	0.3	0.2	0.2	256,305,310
212	6.57e-02	4.36e-02	4.03e-02	256,305,310	0.8	0.1	9.75e-02	8.08e-02	256,305,310
213	0.2	0.2	0.1	280,298,310	0.8	0.4	0.3	0.3	280,298,310
214	0.3	0.2	0.2	268,298,310	0.8	0.6	0.5	0.4	268,301,310

215	0.2	0.1	0.1	268,307,310	0.8	0.3	0.3	0.2	268,307,310
216	0.6	0.5	0.5	268,298,310	0.8	1.2	1.0	1.0	268,307,310
217	0.2	0.1	0.1	256,298,310	0.8	0.3	0.3	0.3	256,301,310
218	0.4	0.3	0.3	256,298,310	0.8	0.7	0.6	0.5	256,301,310
219	5.42e-02	2.94e-02	2.46e-02	267,298,310	0.8	0.1	7.71e-02	5.95e-02	267,307,310
220	0.4	0.3	0.3	256,298,310	0.8	0.7	0.6	0.6	256,301,310
221	3.11e-02	1.12e-02	6.49e-03	261,307,310	0.8	5.72e-02	3.67e-02	1.33e-02	276,307,310
222	2.34e-02	1.18e-02	9.03e-03	251,303,310	0.8	4.29e-02	3.08e-02	1.69e-02	251,303,310
223	3.73e-02	2.63e-02	2.47e-02	244,298,310	0.8	7.11e-02	5.59e-02	4.96e-02	244,303,310
224	3.32e-02	2.35e-02	2.22e-02	244,303,310	0.8	6.34e-02	5.06e-02	4.41e-02	244,303,310
225	1.96e-02	9.64e-03	9.01e-03	274,298,310	0.8	3.78e-02	2.43e-02	1.82e-02	274,305,310
226	0.1	8.94e-02	8.38e-02	268,298,310	0.8	0.2	0.2	0.2	268,307,310
227	0.1	7.63e-02	7.08e-02	279,298,310	0.8	0.2	0.2	0.1	279,298,310
228	0.2	0.1	0.1	268,298,310	0.8	0.3	0.3	0.2	268,307,310

Elem.	w,net R	w,net F	w,net P		w,net Ri	w,net Fi	w,net Pi
	6.32	4.24	3.95		11.40	9.19	8.04



13.3.2 VERIFICA ELEMENTI PARETI X-LAM

13.3.2.1 LEGENDA TABELLA VERIFICHE S.L. PANNELLI XLAM

Il programma consente la verifica dei seguenti tipi di elementi:

1. **gusci**2. **setti**

L'esito delle verifiche è espresso con un codice come di seguito indicato:

- ***ok***: verifica con esito positivo
- ***NV***: verifica con esito negativo

Le verifiche sono condotte in ottemperanza alle NTC 17 Gennaio 2018 seguendo anche le indicazioni analitiche riportate nella norma tecnica UNI EN 1995-1-1:2005 "Eurocodice 5 - Progettazione delle

strutture di legno - Parte 1-1: Regole generali - Regole comuni e regole per gli edifici" e nella norma tedesca DIN 1052 (D) - 2008.

Utilizzando il riferimento tecnico dell' Università di Monaco "Teilprojekt 15 – TP 15 Flächen aus Brettstapeln, Brettsperrholz und Verbundkonstruktionen" che permette di valutare in modo esaustivo il comportamento del pannello in presenza di significative deformazioni a taglio si è valutata in fase di verifica la migrazione degli sforzi dal "Piano B" al "Piano A" come previsto nell' appendice D parte 3 della norma tedesca DIN 1052 (D) - 2008.

In particolare le verifiche effettuate sono riconducibili a quanto previsto nell' appendice D e al capitolo 10.7 della DIN:

- 10.7.1 (127) tensoflessione
- 10.7.1 (128) pressoflessione
- 10.7.1 (129) taglio torsione
- 10.7.1 (130) trazione e taglio di rotolamento
- 10.7.1 (131) compressione e taglio di rotolamento
- App D. (26) momento torcente di incollaggio

Viene riportata un'ulteriore verifica (Mestek 5.4.5) in cui tutte le tensioni normali sono rapportate alla resistenza di progetto a flessione.

Le verifiche sono riportate in due distinte tabelle. Nella prima sono riportate le sollecitazioni sulle connessioni e le verifiche delle stesse. Nella seconda invece sono riportate le verifiche dei pannelli (raccolte per macro elementi e riportate ai nodi). Di seguito si esplicita il significato dei dati riportati nelle tabelle:

Setto/Guscio	Numero del macroelemento
Mat.	Materiale degli strati
N. strati	Numero di strati
Spessore	Spessore degli strati
Incoll.	Tavole incollate lungo il lato (si/no)
Direz. fibre	Inclinazione della direzione (0) rispetto all' asse X (per gusci)
Stato	Codice della verifica: ok verificato, NV non verificato
V.connes.	Codice della verifica delle connessioni: ok verificato, NV non verificato
V.Piede	Verifica delle connessioni alla base del pannello
Azione V	Taglio agente al piede del pannello
Rif.cmb	Combinazione di riferimento per la verifica delle connessioni al piede
V.testa	Verifica delle connessioni in testa al pannello
Azione V	Taglio agente in testa al pannello
Rif. Cmb	Combinazione di riferimento per la verifica delle connessioni in testa
V h-d	Verifica degli hold down
Azione N	Sforzo normale al piede del pannello
Azione M	Momento al piede del pannello
Rif. cmb	Combinazione di riferimento per la verifica degli hold down
Nodo	Numero del nodo per il quale si riportano le verifiche; prima riga direzione (0) seconda riga direzione (1)
V.127	Verifica come da DIN 10.7.1 (127) per tensoflessione
V.128	Verifica come da DIN 10.7.1 (128) per pressoflessione
V.545	Verifica come da riferimento tecnico dell' Università di Monaco Tp 15. (tensioni normali rapportate alla resistenza di progetto a flessione)
V.129	Verifica come da DIN 10.7.1 (129) per taglio torsione
V.130	Verifica come da DIN 10.7.1 (130) trazione e taglio di rotolamento
V.131	Verifica come da DIN 10.7.1 (131) compressione e taglio di rotolamento
M. D26	Momento torcente di incollaggio come da DIN App D. (26)

Fac. B-A	Fattore di riduzione della quota afferente al piano B in relazione alla deformabilità a taglio
Qsup. A	Quota afferente al piano A
Qsup. B	Quota afferente al piano B

A chiarimento delle verifiche riportate si precisa quanto segue.

Il programma consente la modellazione di pannelli XLAM con un numero di strati dispari di ugual spessore.
Gli strati sono costituiti da tavole che possono o meno essere incollate lungo il lato lungo.
Gli strati sono caratterizzati dai moduli E0, G0, E90, G90 e Gori, rispettivamente in direzione 0 (parallela alle fibre), 90 (ortogonale alle fibre) e orizzontale.
Per convenzione la direzione 0 del pannello è quella parallela alle fibre del primo (e ultimo) strato. La direzione 0 pertanto ha caratteristiche di resistenza e rigidezza superiore alla direzione 1. Il programma ipotizza che la direzione 0 sia verticale per i setti e inclinata rispetto all' asse X per i gusci (inclinazione settabile da criterio di progetto). In fase di verifica non esiste interazione tra direzione 0 e 1.

La peculiarità del pannello XLAM è data dalla presenza di strati molto deformabili a taglio (G90 è di un ordine di grandezza inferiore a G0) così da invalidare l' ipotesi di conservazione delle sezioni piane. L' appendice D della DIN 1052 (D) - 2008 fornisce indicazioni per la valutazione delle rigidezze e delle tensioni sui pannelli XLAM, anche considerando la cedevolezza a taglio degli strati. In sostanza le azioni di piastra vengono ripartite su due piani ideali A e B mentre le azioni di lastra sono riportate sul piano ideale C. La deformabilità a taglio regola la ripartizione tra i piani A e B. Utilizzando il riferimento tecnico dell' Università di Monaco "Teilprojekt 15 – TP 15 Flächen aus Brettstapeln, Brettsperrholz und Verbundkonstruktionen" si è implementato l' algoritmo di ripartizione indicato al cap. 5.4.2.3 basato sull' analogia del taglio per carico sinusoidale. In base a questa analogia la quota di carico afferente al piano B viene ridotta in funzione delle caratteristiche statiche del pacchetto di strati e della luce del pannello nella direzione di studio.

Per entrambe le direzioni 0 e 1 si avranno 8 componenti di sollecitazione:

- Momento flettente ripartito su piano A e piano B
- Momento torcente ripartito su piano A e piano B
- Taglio ortogonale ripartito su piano A e piano B
- Sforzo normale su piano C
- Taglio membranale su piano C

Inoltre:
nel caso in cui le tavole siano incollate

- il momento di incollaggio è nullo
- il momento torcente viene ripartito sul piano A e B e verificato per la parte competente allo strato e al pannello (quota di Steiner)
- la resistenza al taglio di piano è offerta dall' intero spessore del pannello
- la dimensione "a" di fig. 16 par. 8.9.3 DIN 1052 (D) è identica nelle due direzioni

in caso contrario

- il momento di incollaggio viene computato secondo DIN D.26

- il momento torcente non viene verificato
- la resistenza al taglio di piano è offerta dallo spessore del pannello ridotto del 75%
- E90 DEVE ESSERE ASSUNTO PARI 0 (gli strati esterni si trascurano per tutti gli effetti in direzione debole)
- la dimensione "a" di fig. 16 par. 8.9.3 DIN 1052 (D) è minore in direzione (1)

Le verifiche V.127, V.128, V.545, V129 (ossia le verifiche per le tensioni normali e tangenziali) sono effettuate per gli strati pari in direzione 0 e per gli strati dispari in direzione 1 (ovvero gli strati con E0), le verifiche V130 e V131 sono effettuate per gli strati pari in direzione 1 e per gli strati dispari in direzione 0 (ovvero gli strati con G90).
Ai fini della verifica a taglio di piastra, è consentita una verifica semplificata che affida al piano B l' intero taglio e
determina la tensione tangenziale dividendo il taglio per la dimensione "a" di fig. 16 par. 8.9.3.
Il programma prevede a scelta dell' utente questa possibilità.
Si sottolinea che le sei verifiche sono espresse dal rapporto tra domanda e capacità, affinché la verifica sia positiva il rapporto deve essere inferiore o uguale a 1. La capacità è affetta dal termine **kmod**, espressione della classe di servizio e della durata dei carichi (si considera a livello di combinazione il caso di carico di minor durata).
Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Settembre 2014, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
126	PROGETTO E VERIFICA DI GUSCI IN MATERIALE XLAM
127	PROGETTO E VERIFICA DI PARETI IN MATERIALE XLAM E RELATIVI COLLEGAMENTI
128	PROGETTO E VERIFICA DI SOLAI IN MATERIALE XLAM
129	VERIFICA HOLD DOWN DI UN PANNELLO IN XLAM

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
1	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.72	37.1	177	0.47	24.1	182	0.94	1.510e+04	-4.303e+05	237

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1	0.21	0.22	0.0	237,240,0	0.12	4.93e-03	0.03	209,69,240	0.27	209	0.85	0.06	0.94
	5.79e-03	4.65e-03	0.0	221,224,0	0.12	3.21e-03	3.21e-03	209,68,68			1.00	0.04	0.96
2	0.21	0.22	0.0	237,240,0	0.12	4.93e-03	0.03	209,69,240	0.27	209	0.85	0.06	0.94
	8.56e-03	5.95e-03	0.0	221,224,0	0.12	3.21e-03	3.21e-03	209,68,68			1.00	0.04	0.96
3	0.21	0.22	0.0	237,240,0	0.13	0.02	0.03	209,69,68	0.27	209	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.13	5.05e-03	5.05e-03	209,68,68			1.00	0.04	0.96
4	0.21	0.22	0.0	237,240,0	0.13	0.02	0.03	209,69,240	0.27	209	0.85	0.06	0.94
	0.01	8.80e-03	0.0	217,220,0	0.13	5.05e-03	5.05e-03	209,68,68			1.00	0.04	0.96
5	0.19	0.20	0.0	237,240,0	0.13	3.33e-03	0.02	210,69,240	0.28	210	0.85	0.06	0.94
	0.05	0.03	0.0	212,209,0	0.13	2.27e-03	2.27e-03	210,237,237			1.00	0.04	0.96
6	0.19	0.20	0.0	237,240,0	0.13	0.02	0.03	210,69,68	0.28	210	0.85	0.06	0.94
	0.12	0.08	0.0	212,209,0	0.13	3.59e-03	3.59e-03	210,69,69			1.00	0.04	0.96
7	0.17	0.18	0.0	237,240,0	0.47	1.37e-03	0.02	209,69,240	0.52	209	0.85	0.06	0.94
	0.05	0.03	0.0	212,209,0	0.47	7.10e-04	7.10e-04	209,68,68			1.00	0.04	0.96
8	0.17	0.18	0.0	237,240,0	0.50	0.01	0.03	212,70,68	0.54	212	0.85	0.06	0.94
	0.14	0.09	0.0	212,209,0	0.50	4.05e-03	4.05e-03	212,69,69			1.00	0.04	0.96

9	0.07	0.09	0.0 215,214,0	0.13	0.02	0.03 209,69,68	0.27	209	0.85	0.06	0.94
	0.03	0.02	0.0 209,212,0	0.13	5.05e-03	5.05e-03 209,68,68			1.00	0.04	0.96
10	0.06	0.08	0.0 215,214,0	0.13	0.02	0.03 209,69,68	0.27	209	0.85	0.06	0.94
	0.01	8.80e-03	0.0 217,220,0	0.13	5.05e-03	5.05e-03 209,68,68			1.00	0.04	0.96
11	0.09	0.10	0.0 215,214,0	0.10	0.02	0.03 209,69,68	0.24	209	0.85	0.06	0.94
	0.12	0.08	0.0 212,209,0	0.10	3.59e-03	3.59e-03 209,69,69			1.00	0.04	0.96
12	0.09	0.10	0.0 215,214,0	0.50	0.01	0.03 212,70,68	0.54	212	0.85	0.06	0.94
	0.14	0.09	0.0 212,209,0	0.50	4.05e-03	4.05e-03 212,69,69			1.00	0.04	0.96
13	0.14	0.15	0.0 237,240,0	0.47	3.55e-03	0.02209,69,240	0.52	209	0.85	0.06	0.94
	0.05	0.04	0.0 209,212,0	0.47	1.62e-03	1.62e-03 209,68,68			1.00	0.04	0.96
14	0.14	0.15	0.0 237,240,0	0.51	7.48e-03	0.03 212,68,68	0.55	212	0.85	0.06	0.94
	0.15	0.10	0.0 209,212,0	0.51	4.05e-03	4.05e-03 212,69,69			1.00	0.04	0.96
15	0.11	0.12	0.0 237,240,0	0.46	4.87e-03	0.01209,69,240	0.52	209	0.85	0.06	0.94
	0.06	0.04	0.0 209,212,0	0.46	5.17e-03	5.17e-03209,215,215			1.00	0.04	0.96
16	0.11	0.12	0.0 237,240,0	0.51	0.02	0.03 212,68,68	0.55	212	0.85	0.06	0.94
	0.15	0.10	0.0 209,212,0	0.51	5.17e-03	5.17e-03212,215,215			1.00	0.04	0.96
17	0.08	0.10	0.0 235,234,0	0.51	7.48e-03	0.03 212,68,68	0.55	212	0.85	0.06	0.94
	0.15	0.10	0.0 209,212,0	0.51	4.05e-03	4.05e-03 212,69,69			1.00	0.04	0.96
18	0.07	0.09	0.0 233,236,0	0.51	0.02	0.03 212,68,68	0.55	212	0.85	0.06	0.94
	0.15	0.10	0.0 209,212,0	0.51	2.65e-03	2.65e-03 212,67,67			1.00	0.04	0.96
19	0.09	0.10	0.0 237,240,0	0.12	6.07e-03	0.01214,69,240	0.26	214	0.85	0.06	0.94
	0.06	0.04	0.0 209,212,0	0.12	7.51e-03	7.51e-03 214,68,68			1.00	0.04	0.96
20	0.09	0.10	0.0 237,240,0	0.12	0.02	0.03 214,69,68	0.26	214	0.85	0.06	0.94
	0.15	0.10	0.0 209,212,0	0.12	8.64e-03	8.64e-03 214,68,68			1.00	0.04	0.96
21	0.07	0.10	0.0 237,240,0	0.06	6.07e-03	0.01214,69,240	0.19	214	0.85	0.06	0.94
	9.32e-03	2.31e-03	0.0 92,68,0	0.06	8.64e-03	8.64e-03 214,68,68			1.00	0.04	0.96
22	0.07	0.09	0.0 237,240,0	0.06	0.02	0.03 214,69,68	0.19	214	0.85	0.06	0.94
	9.85e-03	9.48e-03	0.0 69,68,0	0.06	8.64e-03	8.64e-03 214,68,68			1.00	0.04	0.96
23	0.07	0.09	0.0 237,240,0	0.07	0.02	0.03 209,69,68	0.21	209	0.85	0.06	0.94
	0.15	0.10	0.0 209,212,0	0.07	3.64e-03	3.64e-03 209,68,68			1.00	0.04	0.96
24	0.06	0.07	0.0 237,240,0	0.05	0.02	0.03 212,69,68	0.17	212	0.85	0.06	0.94
	9.85e-03	9.48e-03	0.0 69,68,0	0.05	3.64e-03	3.64e-03 212,68,68			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.21	0.22	0.0	0.51	0.02	0.03	0.55

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
2	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.73	20.2	177	0.44	-12.2	180	0.28	-509.8	-9.055e+04	209

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
25	0.06	0.09	0.0 209,212,0		0.13	0.03	0.03 212,69,68		0.27	212	0.85	0.06	0.94
	0.01	7.12e-03	0.0 209,212,0		0.13	9.29e-04	9.29e-04212,234,234				1.00	0.04	0.96
26	0.07	0.10	0.0 209,212,0		0.13	0.03	0.04 212,69,68		0.27	212	0.85	0.06	0.94
	0.02	0.01	0.0 209,212,0		0.13	9.29e-04	9.29e-04212,234,234				1.00	0.04	0.96
27	0.07	0.10	0.0 209,212,0		0.13	0.03	0.04 209,69,68		0.28	209	0.85	0.06	0.94
	0.05	0.03	0.0 209,212,0		0.13	9.29e-04	9.29e-04209,234,234				1.00	0.04	0.96
28	0.06	0.09	0.0 209,212,0		0.13	0.03	0.03 209,69,68		0.28	209	0.85	0.06	0.94
	0.01	7.12e-03	0.0 209,212,0		0.13	9.29e-04	9.29e-04209,234,234				1.00	0.04	0.96
29	0.10	0.13	0.0 209,212,0		0.09	0.02	0.05 212,65,68		0.23	212	0.85	0.06	0.94
	0.07	0.04	0.0 209,212,0		0.09	5.82e-03	5.82e-03 212,66,66				1.00	0.04	0.96
30	0.10	0.13	0.0 209,212,0		0.09	0.02	0.05 209,65,68		0.23	209	0.85	0.06	0.94
	0.07	0.04	0.0 209,212,0		0.09	5.82e-03	5.82e-03 209,66,66				1.00	0.04	0.96
31	0.10	0.13	0.0 209,212,0		0.50	0.02	0.05 212,68,68		0.54	212	0.85	0.06	0.94
	0.07	0.04	0.0 209,212,0		0.50	5.97e-03	5.97e-03 212,68,68				1.00	0.04	0.96
32	0.10	0.13	0.0 209,212,0		0.50	0.02	0.05 212,68,68		0.54	212	0.85	0.06	0.94
	0.07	0.04	0.0 209,212,0		0.50	5.97e-03	5.97e-03 212,68,68				1.00	0.04	0.96
33	0.05	0.08	0.0 215,214,0		0.13	0.02	0.04 209,66,68		0.28	209	0.85	0.06	0.94
	0.05	0.03	0.0 209,212,0		0.13	9.13e-04	9.13e-04209,225,225				1.00	0.04	0.96
34	0.04	0.07	0.0 215,214,0		0.13	0.02	0.03 209,66,68		0.28	209	0.85	0.06	0.94
	0.01	6.82e-03	0.0 209,212,0		0.13	9.13e-04	9.13e-04209,225,225				1.00	0.04	0.96
35	0.08	0.10	0.0 212,209,0		0.09	0.02	0.04 209,70,68		0.23	209	0.85	0.06	0.94
	0.05	0.03	0.0 209,212,0		0.09	5.30e-03	5.30e-03 209,69,69				1.00	0.04	0.96
36	0.08	0.10	0.0 212,209,0		0.49	0.02	0.04 212,69,68		0.54	212	0.85	0.06	0.94
	0.02	0.02	0.0 213,216,0		0.49	5.30e-03	5.30e-03 212,69,69				1.00	0.04	0.96
37	0.10	0.13	0.0 209,212,0		0.50	0.01	0.04 212,69,68		0.54	212	0.85	0.06	0.94
	0.06	0.04	0.0 209,209,0		0.50	5.97e-03	5.97e-03 212,68,68				1.00	0.04	0.96

38	0.10	0.13	0.0	209,212,0	0.50	0.01	0.04	212,68,68	0.54	212	0.85	0.06	0.94
	0.06	0.04	0.0	209,209,0	0.50	5.97e-03	5.97e-03	212,68,68			1.00	0.04	0.96
39	0.05	0.08	0.0	69,68,0	0.49	0.03	0.05	209,68,68	0.54	209	0.85	0.06	0.94
	0.06	0.04	0.0	212,209,0	0.49	3.73e-03	3.73e-03	209,68,68			1.00	0.04	0.96
40	0.08	0.10	0.0	209,212,0	0.50	0.03	0.05	212,68,68	0.54	212	0.85	0.06	0.94
	0.06	0.04	0.0	212,209,0	0.50	3.73e-03	3.73e-03	212,68,68			1.00	0.04	0.96
41	0.07	0.10	0.0	211,210,0	0.50	0.01	0.04	212,68,68	0.54	212	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.50	5.26e-03	5.26e-03	212,69,69			1.00	0.04	0.96
42	0.08	0.10	0.0	209,212,0	0.50	0.02	0.04	212,69,68	0.54	212	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.50	3.09e-03	3.09e-03	212,69,69			1.00	0.04	0.96
43	0.05	0.08	0.0	215,214,0	0.05	0.03	0.05	209,68,68	0.16	209	0.85	0.06	0.94
	0.05	0.04	0.0	212,209,0	0.05	3.54e-03	3.54e-03	209,68,68			1.00	0.04	0.96
44	0.08	0.10	0.0	209,212,0	0.05	0.03	0.05	212,68,68	0.18	212	0.85	0.06	0.94
	0.05	0.04	0.0	212,209,0	0.05	3.54e-03	3.54e-03	212,68,68			1.00	0.04	0.96
45	0.02	0.04	0.0	215,214,0	0.05	0.03	0.04	209,68,68	0.16	209	0.85	0.06	0.94
	3.38e-03	3.64e-03	0.0	213,68,0	0.05	1.04e-03	1.04e-03	209,239,239			1.00	0.04	0.96
46	0.03	0.05	0.0	209,212,0	0.05	0.03	0.04	212,68,68	0.18	212	0.85	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.05	1.51e-03	1.51e-03	212,68,68			1.00	0.04	0.96
47	0.08	0.10	0.0	209,212,0	0.05	0.03	0.04	212,69,68	0.18	212	0.85	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.05	3.09e-03	3.09e-03	212,69,69			1.00	0.04	0.96
48	0.03	0.05	0.0	209,212,0	0.05	0.03	0.03	212,69,68	0.18	212	0.85	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.05	1.51e-03	1.51e-03	212,68,68			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.10	0.13	0.0	0.50	0.03	0.05	0.54

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
3	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
9	0.02	0.02	0.0	209,212,0	0.17	7.20e-04	2.00e-03	209,68,212	0.32	209	0.53	0.09	0.91
	0.09	0.07	0.0	215,214,0	0.17	0.01	0.01	209,68,68			1.00	0.04	0.96
10	1.98e-03	1.87e-03	0.0	237,240,0	0.15	7.20e-04	8.23e-04	209,68,68	0.30	209	0.53	0.09	0.91
	0.09	0.07	0.0	215,214,0	0.15	0.01	0.01	209,68,68			1.00	0.04	0.96
11	0.08	0.06	0.0	212,209,0	0.19	8.96e-03	8.96e-03	209,68,68	0.33	209	0.53	0.09	0.91
	0.09	0.07	0.0	215,214,0	0.19	0.01	0.01	209,68,68			1.00	0.04	0.96
12	0.08	0.06	0.0	212,209,0	0.19	8.96e-03	8.96e-03	209,68,68	0.33	209	0.53	0.09	0.91
	0.09	0.06	0.0	211,210,0	0.19	0.01	0.01	209,68,68			1.00	0.04	0.96
25	5.12e-03	4.21e-03	0.0	209,212,0	0.15	5.60e-04	6.43e-04	212,68,68	0.30	212	0.53	0.09	0.91
	0.08	0.06	0.0	209,212,0	0.15	0.01	0.01	212,69,69			1.00	0.04	0.96
26	5.12e-03	4.21e-03	0.0	209,212,0	0.18	5.60e-04	6.43e-04	212,68,68	0.32	212	0.53	0.09	0.91
	0.09	0.07	0.0	209,212,0	0.18	0.01	0.01	212,69,69			1.00	0.04	0.96
29	0.03	0.03	0.0	209,212,0	0.18	8.82e-03	8.82e-03	212,68,68	0.32	212	0.53	0.09	0.91
	0.10	0.07	0.0	209,212,0	0.18	0.01	0.01	212,69,69			1.00	0.04	0.96
31	0.03	0.03	0.0	209,212,0	0.16	8.82e-03	8.82e-03	212,68,68	0.31	212	0.53	0.09	0.91
	0.10	0.07	0.0	209,212,0	0.16	0.01	0.01	212,69,69			1.00	0.04	0.96
49	0.02	0.02	0.0	209,212,0	0.17	7.20e-04	2.00e-03	209,68,212	0.32	209	0.53	0.09	0.91
	0.09	0.07	0.0	215,214,0	0.17	0.01	0.01	209,68,68			1.00	0.04	0.96
50	3.07e-03	2.65e-03	0.0	221,224,0	0.15	7.20e-04	1.37e-03	209,68,68	0.30	209	0.53	0.09	0.91
	0.09	0.07	0.0	215,214,0	0.15	0.01	0.01	209,68,68			1.00	0.04	0.96
51	0.08	0.06	0.0	212,209,0	0.19	8.96e-03	8.96e-03	209,68,68	0.33	209	0.53	0.09	0.91
	0.09	0.07	0.0	215,214,0	0.19	0.01	0.01	209,68,68			1.00	0.04	0.96
52	0.08	0.06	0.0	212,209,0	0.19	8.96e-03	8.96e-03	209,68,68	0.33	209	0.53	0.09	0.91
	0.09	0.06	0.0	211,210,0	0.19	0.01	0.01	209,68,68			1.00	0.04	0.96
53	0.01	8.59e-03	0.0	209,212,0	0.15	4.70e-04	1.37e-03	212,69,68	0.30	212	0.53	0.09	0.91
	0.01	0.02	0.0	211,210,0	0.15	8.25e-03	8.25e-03	212,68,68			1.00	0.04	0.96
54	4.01e-03	3.35e-03	0.0	209,212,0	0.15	4.70e-04	1.37e-03	212,69,68	0.29	212	0.53	0.09	0.91
	0.01	0.02	0.0	211,210,0	0.15	8.25e-03	8.25e-03	212,68,68			1.00	0.04	0.96
55	0.04	0.03	0.0	212,209,0	0.15	3.05e-03	4.51e-03	212,69,209	0.30	212	0.53	0.09	0.91
	0.02	0.02	0.0	212,68,0	0.15	4.36e-03	4.36e-03	212,68,68			1.00	0.04	0.96
56	0.04	0.03	0.0	212,209,0	0.10	3.05e-03	4.51e-03	209,69,209	0.24	209	0.53	0.09	0.91
	0.02	0.01	0.0	212,209,0	0.10	4.36e-03	4.36e-03	209,68,68			1.00	0.04	0.96
57	6.58e-03	5.21e-03	0.0	221,224,0	0.18	5.60e-04	1.20e-03	212,68,68	0.32	212	0.53	0.09	0.91
	0.09	0.07	0.0	209,212,0	0.18	0.01	0.01	212,69,69			1.00	0.04	0.96
58	5.12e-03	4.21e-03	0.0	209,212,0	0.15	5.60e-04	1.20e-03	212,68,68	0.30	212	0.53	0.09	0.91
	0.08	0.06	0.0	209,212,0	0.15	0.01	0.01	212,69,69			1.00	0.04	0.96

59	0.03	0.03	0.0	209,212,0	0.18	8.82e-03	8.82e-03	212,68,68	0.32	212	0.53	0.09	0.91
	0.10	0.07	0.0	209,212,0	0.18	0.01	0.01	212,69,69			1.00	0.04	0.96
60	0.03	0.03	0.0	209,212,0	0.16	8.82e-03	8.82e-03	212,68,68	0.31	212	0.53	0.09	0.91
	0.10	0.07	0.0	209,212,0	0.16	0.01	0.01	212,69,69			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.10	0.07	0.0	0.19	0.01	0.01	0.33

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
4	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
18	0.11	0.08	0.0	209,212,0	0.18	5.68e-03	9.97e-03	212,69,68	0.32	212	0.29	0.16	0.84
	0.03	0.03	0.0	221,224,0	0.18	8.83e-03	8.83e-03	212,68,68			1.00	0.04	0.96
23	0.11	0.08	0.0	209,212,0	0.18	5.68e-03	9.97e-03	212,69,68	0.33	212	0.29	0.16	0.84
	0.04	0.05	0.0	237,240,0	0.18	8.83e-03	8.83e-03	212,68,68			1.00	0.04	0.96
24	0.03	0.02	0.0	212,209,0	0.18	7.31e-04	2.38e-03	212,69,209	0.33	212	0.29	0.16	0.84
	0.04	0.05	0.0	237,240,0	0.18	8.78e-03	8.78e-03	212,68,68			1.00	0.04	0.96
39	0.04	0.03	0.0	212,209,0	0.16	5.53e-03	5.53e-03	209,68,68	0.30	209	0.29	0.16	0.84
	0.05	0.04	0.0	212,209,0	0.16	7.33e-03	7.33e-03	209,68,68			1.00	0.04	0.96
43	0.04	0.03	0.0	212,209,0	0.20	5.53e-03	5.53e-03	209,68,68	0.34	209	0.29	0.16	0.84
	0.05	0.05	0.0	212,214,0	0.20	7.56e-03	7.56e-03	209,69,69			1.00	0.04	0.96
45	0.02	0.01	0.0	209,212,0	0.20	9.25e-04	1.57e-03	209,67,212	0.34	209	0.29	0.16	0.84
	0.05	0.05	0.0	215,214,0	0.20	7.56e-03	7.56e-03	209,69,69			1.00	0.04	0.96
61	0.11	0.08	0.0	209,212,0	0.20	5.68e-03	9.97e-03	212,69,68	0.34	212	0.29	0.16	0.84
	0.04	0.05	0.0	237,240,0	0.20	8.83e-03	8.83e-03	212,68,68			1.00	0.04	0.96
62	0.11	0.08	0.0	209,212,0	0.18	5.68e-03	9.97e-03	212,69,68	0.32	212	0.29	0.16	0.84
	0.03	0.03	0.0	221,224,0	0.18	8.83e-03	8.83e-03	212,68,68			1.00	0.04	0.96
63	4.70e-03	4.25e-03	0.0	212,209,0	0.20	4.13e-04	1.73e-03	212,68,68	0.34	212	0.29	0.16	0.84
	8.87e-03	0.01	0.0	237,240,0	0.20	6.95e-03	6.95e-03	212,68,68			1.00	0.04	0.96
64	0.06	0.04	0.0	209,212,0	0.20	1.93e-03	5.68e-03	209,69,216	0.34	209	0.29	0.16	0.84
	0.01	0.01	0.0	209,212,0	0.20	2.35e-03	2.35e-03	209,68,68			1.00	0.04	0.96
65	0.06	0.04	0.0	209,212,0	0.14	1.93e-03	5.68e-03	212,69,216	0.29	212	0.29	0.16	0.84
	0.01	0.01	0.0	209,212,0	0.14	1.26e-03	1.26e-03	212,68,68			1.00	0.04	0.96
66	4.70e-03	4.25e-03	0.0	212,209,0	0.20	4.13e-04	1.82e-03	209,68,67	0.34	209	0.29	0.16	0.84
	4.74e-03	5.26e-03	0.0	221,224,0	0.20	2.35e-03	2.35e-03	209,68,68			1.00	0.04	0.96
67	0.04	0.03	0.0	212,209,0	0.20	5.53e-03	5.53e-03	209,68,68	0.34	209	0.29	0.16	0.84
	0.05	0.05	0.0	212,214,0	0.20	7.56e-03	7.56e-03	209,69,69			1.00	0.04	0.96
68	0.04	0.03	0.0	212,209,0	0.16	5.53e-03	5.53e-03	209,68,68	0.30	209	0.29	0.16	0.84
	0.05	0.04	0.0	212,209,0	0.16	7.33e-03	7.33e-03	209,68,68			1.00	0.04	0.96
69	4.53e-03	3.82e-03	0.0	214,215,0	0.20	3.93e-04	1.82e-03	209,225,67	0.34	209	0.29	0.16	0.84
	4.67e-03	8.46e-03	0.0	215,214,0	0.20	5.97e-03	5.97e-03	209,68,68			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.11	0.08	0.0	0.20	8.83e-03	9.97e-03	0.34

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
5	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.80	132.5	177	0.79	130.9	177	0.92	1.164e+04	6.211e+06	212

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
70	0.13	0.17	0.0	233,236,0	0.16	1.75e-03	0.02	209,69,236	0.31	209	0.85	0.06	0.94
	0.02	0.01	0.0	68,69,0	0.16	6.12e-03	6.12e-03	209,68,68			1.00	0.04	0.96
71	0.13	0.17	0.0	233,236,0	0.17	1.75e-03	0.02	209,69,236	0.32	209	0.85	0.06	0.94
	0.06	0.04	0.0	209,212,0	0.17	0.02	0.02	209,68,68			1.00	0.04	0.96
72	0.13	0.17	0.0	233,236,0	0.15	7.06e-03	0.02	212,69,236	0.30	212	0.85	0.06	0.94
	0.06	0.04	0.0	209,212,0	0.15	0.02	0.02	212,68,68			1.00	0.04	0.96

73	0.13	0.17	0.0 233,236,0	0.15	7.06e-03	0.02212,69,236	0.30	212	0.85	0.06	0.94
	0.02	0.01	0.0 68,69,0	0.15	6.12e-03	6.12e-03 212,68,68			1.00	0.04	0.96
74	0.12	0.15	0.0 233,236,0	0.24	4.80e-04	0.02209,69,236	0.38	209	0.85	0.06	0.94
	0.19	0.13	0.0 209,212,0	0.24	0.02	0.02 209,68,68			1.00	0.04	0.96
75	0.13	0.15	0.0 209,212,0	0.19	4.39e-03	0.02212,69,236	0.34	212	0.85	0.06	0.94
	0.23	0.16	0.0 209,212,0	0.19	0.02	0.02 212,68,68			1.00	0.04	0.96
76	0.10	0.13	0.0 233,236,0	0.49	4.94e-04	0.01212,235,236	0.54	212	0.85	0.06	0.94
	0.19	0.13	0.0 209,212,0	0.49	0.03	0.03 212,68,68			1.00	0.04	0.96
77	0.13	0.15	0.0 209,212,0	0.49	3.83e-03	0.02212,69,212	0.54	212	0.85	0.06	0.94
	0.23	0.16	0.0 209,212,0	0.49	0.03	0.03 212,68,68			1.00	0.04	0.96
78	0.11	0.14	0.0 209,212,0	0.14	7.06e-03	0.02209,69,228	0.29	209	0.85	0.06	0.94
	0.04	0.03	0.0 209,212,0	0.14	0.01	0.01 209,68,68			1.00	0.04	0.96
79	0.11	0.14	0.0 209,212,0	0.14	7.06e-03	0.02209,69,228	0.29	209	0.85	0.06	0.94
	6.64e-03	4.12e-03	0.0 209,212,0	0.14	2.48e-03	2.48e-03 209,68,68			1.00	0.04	0.96
80	0.13	0.15	0.0 209,212,0	0.12	4.39e-03	0.02212,69,212	0.26	212	0.85	0.06	0.94
	0.23	0.16	0.0 209,212,0	0.12	0.02	0.02 212,68,68			1.00	0.04	0.96
81	0.13	0.15	0.0 209,212,0	0.43	3.83e-03	0.02212,69,212	0.50	212	0.85	0.06	0.94
	0.23	0.16	0.0 209,212,0	0.43	0.02	0.02 212,68,68			1.00	0.04	0.96
82	0.08	0.11	0.0 233,236,0	0.49	4.94e-04	0.01212,235,236	0.54	212	0.85	0.06	0.94
	0.15	0.10	0.0 209,212,0	0.49	0.03	0.03 212,68,68			1.00	0.04	0.96
83	0.12	0.15	0.0 209,212,0	0.49	3.83e-03	0.02212,69,212	0.54	212	0.85	0.06	0.94
	0.20	0.14	0.0 212,209,0	0.49	0.03	0.03 212,68,68			1.00	0.04	0.96
84	0.08	0.11	0.0 233,236,0	0.49	6.47e-04	0.01212,237,236	0.54	212	0.85	0.06	0.94
	0.20	0.13	0.0 212,209,0	0.49	0.02	0.02 212,68,68			1.00	0.04	0.96
85	0.08	0.11	0.0 233,236,0	0.49	4.43e-03	0.01212,69,236	0.54	212	0.85	0.06	0.94
	0.25	0.17	0.0 212,209,0	0.49	0.02	0.02 212,68,68			1.00	0.04	0.96
86	0.12	0.15	0.0 209,212,0	0.43	3.83e-03	0.02212,69,212	0.50	212	0.85	0.06	0.94
	0.20	0.14	0.0 212,209,0	0.43	0.01	0.01 212,68,68			1.00	0.04	0.96
87	0.07	0.10	0.0 237,240,0	0.42	4.43e-03	0.01209,69,240	0.50	209	0.85	0.06	0.94
	0.25	0.17	0.0 212,209,0	0.42	0.01	0.01 209,68,68			1.00	0.04	0.96
88	0.07	0.10	0.0 233,236,0	0.25	1.92e-03	0.01210,68,236	0.39	210	0.85	0.06	0.94
	0.20	0.13	0.0 212,209,0	0.25	0.02	0.02 210,69,69			1.00	0.04	0.96
89	0.07	0.10	0.0 233,236,0	0.19	7.70e-03	0.01212,69,236	0.34	212	0.85	0.06	0.94
	0.25	0.17	0.0 212,209,0	0.19	0.02	0.02 212,69,69			1.00	0.04	0.96
90	0.06	0.09	0.0 233,236,0	0.18	1.92e-03	0.01210,68,236	0.33	210	0.85	0.06	0.94
	0.05	0.03	0.0 212,209,0	0.18	6.22e-03	6.22e-03 210,72,72			1.00	0.04	0.96
91	0.06	0.09	0.0 233,236,0	0.13	7.70e-03	0.01 212,69,68	0.28	212	0.85	0.06	0.94
	0.05	0.03	0.0 212,209,0	0.13	6.22e-03	6.22e-03 212,72,72			1.00	0.04	0.96
92	0.05	0.08	0.0 237,240,0	0.08	7.70e-03	0.01 209,69,68	0.22	209	0.85	0.06	0.94
	0.25	0.17	0.0 212,209,0	0.08	0.01	0.01 209,68,68			1.00	0.04	0.96
93	0.05	0.07	0.0 237,240,0	0.08	7.70e-03	0.01 209,69,68	0.22	209	0.85	0.06	0.94
	0.05	0.03	0.0 212,209,0	0.08	3.19e-03	3.19e-03 209,68,68			1.00	0.04	0.96
115	0.11	0.14	0.0 233,236,0	0.18	6.42e-03	0.02209,69,236	0.32	209	0.85	0.06	0.94
	0.05	0.03	0.0 209,212,0	0.18	0.02	0.02 209,68,68			1.00	0.04	0.96
116	0.11	0.14	0.0 233,236,0	0.16	6.42e-03	0.02209,69,236	0.31	209	0.85	0.06	0.94
	0.02	0.01	0.0 68,69,0	0.16	5.60e-03	5.60e-03 209,68,68			1.00	0.04	0.96
117	0.09	0.12	0.0 233,236,0	0.25	3.09e-03	0.01209,69,236	0.38	209	0.85	0.06	0.94
	0.14	0.09	0.0 209,212,0	0.25	0.02	0.02 209,68,68			1.00	0.04	0.96
118	0.08	0.11	0.0 233,236,0	0.45	1.19e-03	0.01209,69,236	0.52	209	0.85	0.06	0.94
	0.14	0.09	0.0 209,212,0	0.45	0.02	0.02 209,68,68			1.00	0.04	0.96
119	0.06	0.07	0.0 215,214,0	0.18	0.01	0.01 209,69,68	0.33	209	0.85	0.06	0.94
	0.04	0.03	0.0 209,212,0	0.18	7.11e-03	7.11e-03 209,68,68			1.00	0.04	0.96
120	0.06	0.07	0.0 215,214,0	0.16	0.01	0.01 209,69,68	0.31	209	0.85	0.06	0.94
	6.28e-03	4.18e-03	0.0 209,212,0	0.16	1.33e-03	1.33e-03 209,67,67			1.00	0.04	0.96
121	0.06	0.07	0.0 215,214,0	0.25	6.11e-03	0.01 209,69,68	0.38	209	0.85	0.06	0.94
	0.09	0.06	0.0 209,212,0	0.25	0.01	0.01 209,68,68			1.00	0.04	0.96
122	0.06	0.07	0.0 215,214,0	0.39	2.67e-03	0.01 209,69,68	0.48	209	0.85	0.06	0.94
	0.09	0.06	0.0 209,212,0	0.39	0.01	0.01 209,68,68			1.00	0.04	0.96
123	0.11	0.11	0.0 212,209,0	0.20	0.01	0.02 209,69,68	0.34	209	0.85	0.06	0.94
	0.02	0.02	0.0 209,212,0	0.20	1.89e-03	1.89e-03 209,71,71			1.00	0.04	0.96
124	0.10	0.10	0.0 212,209,0	0.16	0.01	0.02 209,69,68	0.31	209	0.85	0.06	0.94
	2.93e-03	2.00e-03	0.0 217,220,0	0.16	1.61e-03	1.61e-03 209,68,68			1.00	0.04	0.96
125	0.11	0.11	0.0 212,209,0	0.26	8.86e-03	0.02 209,69,68	0.39	209	0.85	0.06	0.94
	0.06	0.04	0.0 209,212,0	0.26	3.04e-03	3.04e-03 209,72,72			1.00	0.04	0.96
126	0.11	0.11	0.0 212,209,0	0.35	4.11e-03	0.02 209,69,68	0.45	209	0.85	0.06	0.94
	0.06	0.04	0.0 209,212,0	0.35	3.41e-03	3.41e-03 209,68,68			1.00	0.04	0.96
127	0.31	0.29	0.0 212,209,0	0.20	0.02	0.04209,68,209	0.34	209	0.85	0.06	0.94
	8.66e-03	5.91e-03	0.0 209,212,0	0.20	1.61e-03	1.61e-03 209,68,68			1.00	0.04	0.96
128	0.31	0.29	0.0 212,209,0	0.16	0.02	0.04209,68,209	0.31	209	0.85	0.06	0.94
	2.66e-03	1.90e-03	0.0 212,209,0	0.16	1.61e-03	1.61e-03 209,68,68			1.00	0.04	0.96
129	0.27	0.25	0.0 212,209,0	0.26	0.01	0.03209,68,209	0.39	209	0.85	0.06	0.94
	0.03	0.02	0.0 209,212,0	0.26	1.10e-03	1.10e-03 209,68,68			1.00	0.04	0.96
130	0.22	0.21	0.0 212,209,0	0.34	5.51e-03	0.02209,68,209	0.45	209	0.85	0.06	0.94
	0.03	0.02	0.0 209,212,0	0.34	1.18e-03	1.18e-03 209,68,68			1.00	0.04	0.96
131	0.31	0.29	0.0 212,209,0	0.13	0.02	0.04209,68,209	0.28	209	0.85	0.06	0.94
	2.66e-03	1.90e-03	0.0 212,209,0	0.13	1.50e-03	1.50e-03 209,68,68			1.00	0.04	0.96
132	0.31	0.29	0.0 212,209,0	0.13	0.02	0.04209,68,209	0.28	209	0.85	0.06	0.94

	2.66e-03	1.90e-03	0.0 212,209,0	0.13	1.50e-03	1.50e-03 209,68,68			1.00	0.04	0.96
133	0.27	0.25	0.0 212,209,0	0.14	0.01	0.03209,68,209	0.29	209	0.85	0.06	0.94
	8.26e-03	5.60e-03	0.0 209,212,0	0.14	1.10e-03	1.10e-03 209,68,68			1.00	0.04	0.96
134	0.22	0.21	0.0 212,209,0	0.18	5.51e-03	0.02209,68,209	0.33	209	0.85	0.06	0.94
	8.26e-03	5.60e-03	0.0 209,212,0	0.18	1.18e-03	1.18e-03 209,68,68			1.00	0.04	0.96
135	0.07	0.10	0.0 237,240,0	0.45	1.58e-03	0.01209,69,240	0.52	209	0.85	0.06	0.94
	0.10	0.06	0.0 209,212,0	0.45	0.02	0.02 209,68,68			1.00	0.04	0.96
136	0.06	0.09	0.0 237,240,0	0.45	3.51e-03	9.48e-03209,69,240	0.52	209	0.85	0.06	0.94
	0.14	0.09	0.0 212,209,0	0.45	0.02	0.02 209,68,68			1.00	0.04	0.96
137	0.06	0.07	0.0 215,214,0	0.39	3.32e-03	0.01 209,69,68	0.48	209	0.85	0.06	0.94
	0.06	0.04	0.0 209,212,0	0.39	0.01	0.01 209,68,68			1.00	0.04	0.96
138	0.06	0.07	0.0 215,214,0	0.39	6.68e-03	0.01 209,69,68	0.48	209	0.85	0.06	0.94
	0.09	0.06	0.0 212,209,0	0.39	9.87e-03	9.87e-03 209,68,68			1.00	0.04	0.96
139	0.12	0.12	0.0 212,209,0	0.35	5.02e-03	0.02 209,69,68	0.45	209	0.85	0.06	0.94
	0.03	0.02	0.0 209,212,0	0.35	3.41e-03	3.41e-03 209,68,68			1.00	0.04	0.96
140	0.12	0.12	0.0 212,209,0	0.34	9.50e-03	0.02 209,69,68	0.45	209	0.85	0.06	0.94
	0.05	0.04	0.0 212,209,0	0.34	2.98e-03	2.98e-03 209,68,68			1.00	0.04	0.96
141	0.18	0.16	0.0 212,209,0	0.34	6.75e-03	0.02 209,68,68	0.45	209	0.85	0.06	0.94
	0.02	0.01	0.0 209,212,0	0.34	1.18e-03	1.18e-03 209,68,68			1.00	0.04	0.96
142	0.12	0.12	0.0 212,209,0	0.34	0.01	0.02 209,68,68	0.45	209	0.85	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.34	1.12e-03	1.12e-03 209,68,68			1.00	0.04	0.96
143	0.18	0.16	0.0 212,209,0	0.19	6.75e-03	0.02 212,68,68	0.33	212	0.85	0.06	0.94
	6.04e-03	4.20e-03	0.0 209,212,0	0.19	1.18e-03	1.18e-03 212,68,68			1.00	0.04	0.96
144	0.12	0.11	0.0 212,209,0	0.19	0.01	0.02 212,68,68	0.33	212	0.85	0.06	0.94
	5.33e-03	4.08e-03	0.0 212,209,0	0.19	1.12e-03	1.12e-03 212,68,68			1.00	0.04	0.96
145	0.05	0.08	0.0 237,240,0	0.25	6.49e-03	9.38e-03 209,69,68	0.39	209	0.85	0.06	0.94
	0.14	0.09	0.0 212,209,0	0.25	0.02	0.02 209,69,69			1.00	0.04	0.96
146	0.04	0.07	0.0 235,234,0	0.19	6.49e-03	9.38e-03 209,69,68	0.33	209	0.85	0.06	0.94
	0.04	0.03	0.0 212,209,0	0.19	5.47e-03	5.47e-03 209,72,72			1.00	0.04	0.96
147	0.06	0.07	0.0 215,214,0	0.25	0.01	0.01 209,69,68	0.39	209	0.85	0.06	0.94
	0.09	0.06	0.0 212,209,0	0.25	6.78e-03	6.78e-03 209,68,68			1.00	0.04	0.96
148	0.06	0.06	0.0 215,214,0	0.19	0.01	0.01 209,69,68	0.33	209	0.85	0.06	0.94
	0.03	0.02	0.0 212,209,0	0.19	1.51e-03	1.51e-03 209,71,71			1.00	0.04	0.96
149	0.13	0.13	0.0 212,209,0	0.25	0.01	0.02 209,69,68	0.39	209	0.85	0.06	0.94
	0.05	0.04	0.0 212,209,0	0.25	1.83e-03	1.83e-03 209,68,68			1.00	0.04	0.96
150	0.13	0.13	0.0 212,209,0	0.19	0.01	0.02 209,69,68	0.33	209	0.85	0.06	0.94
	0.01	8.31e-03	0.0 228,225,0	0.19	1.68e-03	1.68e-03 209,68,68			1.00	0.04	0.96
151	0.13	0.13	0.0 212,209,0	0.25	0.02	0.02 209,68,68	0.39	209	0.85	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.25	1.68e-03	1.68e-03 209,68,68			1.00	0.04	0.96
152	0.13	0.13	0.0 212,209,0	0.19	0.02	0.02 209,68,68	0.33	209	0.85	0.06	0.94
	8.86e-03	6.61e-03	0.0 210,211,0	0.19	1.68e-03	1.68e-03 209,68,68			1.00	0.04	0.96
153	0.07	0.07	0.0 212,209,0	0.16	0.02	0.02 212,68,68	0.30	212	0.85	0.06	0.94
	8.86e-03	6.61e-03	0.0 210,211,0	0.16	1.10e-03	1.10e-03 212,68,68			1.00	0.04	0.96
154	0.03	0.03	0.0 212,209,0	0.15	0.02	0.02 212,68,68	0.30	212	0.85	0.06	0.94
	8.86e-03	6.61e-03	0.0 210,211,0	0.15	6.68e-04	6.68e-04 212,69,69			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.31	0.29	0.0	0.49	0.03	0.04	0.54

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
6	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
33	0.02	0.02	0.0 209,212,0		0.18	8.48e-04	1.97e-03209,68,212		0.33	209	0.53	0.09	0.91
	0.07	0.06	0.0 212,209,0		0.18	0.01	0.01 209,68,68				1.00	0.04	0.96
34	2.30e-03	2.06e-03	0.0 209,212,0		0.16	5.80e-04	7.99e-04 209,68,68		0.31	209	0.53	0.09	0.91
	0.07	0.05	0.0 212,209,0		0.16	0.01	0.01 209,68,68				1.00	0.04	0.96
35	0.02	0.02	0.0 209,212,0		0.18	7.75e-03	7.75e-03 209,69,69		0.33	209	0.53	0.09	0.91
	0.09	0.06	0.0 212,209,0		0.18	0.01	0.01 209,66,66				1.00	0.04	0.96
36	6.64e-03	4.67e-03	0.0 209,212,0		0.15	7.75e-03	7.75e-03 209,69,69		0.30	209	0.53	0.09	0.91
	0.09	0.06	0.0 212,209,0		0.15	0.01	0.01 209,66,66				1.00	0.04	0.96
78	6.16e-03	4.99e-03	0.0 209,212,0		0.20	2.29e-03	3.28e-03 212,68,68		0.34	212	0.53	0.09	0.91
	0.11	0.08	0.0 209,212,0		0.20	2.62e-03	2.62e-03 212,68,68				1.00	0.04	0.96
79	6.16e-03	4.99e-03	0.0 209,212,0		0.17	5.14e-04	7.34e-04 212,69,68		0.31	212	0.53	0.09	0.91
	0.11	0.08	0.0 209,212,0		0.17	2.55e-03	2.55e-03 212,69,69				1.00	0.04	0.96
80	0.13	0.10	0.0 209,212,0		0.22	8.66e-03	0.01212,69,212		0.36	212	0.53	0.09	0.91

	0.11	0.08	0.0 209,212,0	0.22	6.99e-03	6.99e-03 212,69,69			1.00	0.04	0.96
81	0.13	0.10	0.0 209,212,0	0.22	8.66e-03	0.01212,69,212	0.36	212	0.53	0.09	0.91
	0.11	0.08	0.0 209,212,0	0.22	6.99e-03	6.99e-03 212,69,69			1.00	0.04	0.96
94	0.01	8.77e-03	0.0 209,212,0	0.20	2.29e-03	3.28e-03 212,68,68	0.34	212	0.53	0.09	0.91
	0.11	0.08	0.0 209,212,0	0.20	5.37e-03	5.37e-03 212,69,69			1.00	0.04	0.96
95	6.16e-03	4.99e-03	0.0 209,212,0	0.17	1.31e-03	1.43e-03 212,68,68	0.31	212	0.53	0.09	0.91
	0.11	0.08	0.0 209,212,0	0.17	5.37e-03	5.37e-03 212,69,69			1.00	0.04	0.96
96	0.13	0.10	0.0 209,212,0	0.22	8.66e-03	0.01212,69,212	0.36	212	0.53	0.09	0.91
	0.11	0.08	0.0 209,212,0	0.22	6.99e-03	6.99e-03 212,69,69			1.00	0.04	0.96
97	0.13	0.10	0.0 209,212,0	0.22	8.66e-03	0.01212,69,212	0.36	212	0.53	0.09	0.91
	0.11	0.08	0.0 209,212,0	0.22	6.99e-03	6.99e-03 212,69,69			1.00	0.04	0.96
98	0.02	0.01	0.0 209,212,0	0.16	1.31e-03	2.63e-03 212,68,68	0.31	212	0.53	0.09	0.91
	0.02	0.02	0.0 209,212,0	0.16	7.99e-03	7.99e-03 212,69,69			1.00	0.04	0.96
99	4.37e-03	3.60e-03	0.0 209,212,0	0.15	1.31e-03	1.43e-03 212,68,68	0.30	212	0.53	0.09	0.91
	0.02	0.02	0.0 209,212,0	0.15	7.99e-03	7.99e-03 212,69,69			1.00	0.04	0.96
100	0.08	0.06	0.0 209,212,0	0.16	3.73e-03	7.10e-03212,68,212	0.31	212	0.53	0.09	0.91
	0.02	0.01	0.0 209,68,0	0.16	4.10e-03	4.10e-03 212,69,69			1.00	0.04	0.96
101	0.08	0.06	0.0 209,212,0	0.11	3.73e-03	7.10e-03212,68,212	0.25	212	0.53	0.09	0.91
	0.02	0.01	0.0 209,212,0	0.11	4.10e-03	4.10e-03 212,69,69			1.00	0.04	0.96
102	0.02	0.02	0.0 209,212,0	0.18	1.14e-03	2.63e-03 209,68,68	0.33	209	0.53	0.09	0.91
	0.07	0.06	0.0 212,209,0	0.18	0.01	0.01 209,68,68			1.00	0.04	0.96
103	3.37e-03	2.85e-03	0.0 209,212,0	0.16	1.05e-03	1.32e-03 209,68,68	0.31	209	0.53	0.09	0.91
	0.07	0.05	0.0 212,209,0	0.16	0.01	0.01 209,68,68			1.00	0.04	0.96
104	0.05	0.03	0.0 209,212,0	0.18	7.75e-03	7.75e-03 209,69,69	0.33	209	0.53	0.09	0.91
	0.09	0.06	0.0 212,209,0	0.18	0.01	0.01 209,66,66			1.00	0.04	0.96
105	0.05	0.03	0.0 209,212,0	0.15	7.75e-03	7.75e-03 209,69,69	0.30	209	0.53	0.09	0.91
	0.09	0.06	0.0 212,209,0	0.15	0.01	0.01 209,66,66			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.13	0.10	0.0	0.22	0.01	0.01	0.36

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
7	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
42	7.83e-03	5.56e-03	0.0	213,216,0	0.17	4.63e-03	4.63e-03	212,69,69	0.32	212	0.29	0.16	0.84
	0.06	0.05	0.0	209,212,0	0.17	5.24e-03	5.24e-03	212,69,69			1.00	0.04	0.96
47	0.03	0.02	0.0	212,209,0	0.23	4.63e-03	4.63e-03	212,69,69	0.37	212	0.29	0.16	0.84
	0.06	0.06	0.0	209,212,0	0.23	9.89e-03	9.89e-03	212,68,68			1.00	0.04	0.96
48	0.03	0.02	0.0	212,209,0	0.23	1.61e-03	3.05e-03	212,68,68	0.37	212	0.29	0.16	0.84
	0.06	0.06	0.0	209,212,0	0.23	9.89e-03	9.89e-03	212,68,68			1.00	0.04	0.96
87	0.15	0.11	0.0	212,209,0	0.18	6.54e-03	0.01	209,68,209	0.33	209	0.29	0.16	0.84
	0.03	0.03	0.0	215,214,0	0.18	6.07e-03	6.07e-03	209,69,69			1.00	0.04	0.96
92	0.15	0.11	0.0	212,209,0	0.20	6.54e-03	0.01	209,68,209	0.34	209	0.29	0.16	0.84
	0.03	0.05	0.0	215,234,0	0.20	6.07e-03	6.07e-03	209,69,69			1.00	0.04	0.96
93	0.01	7.26e-03	0.0	209,212,0	0.20	2.73e-03	2.73e-03	209,68,68	0.34	209	0.29	0.16	0.84
	0.02	0.05	0.0	235,234,0	0.20	4.66e-03	4.66e-03	209,69,69			1.00	0.04	0.96
106	0.15	0.11	0.0	212,209,0	0.22	6.54e-03	0.01	212,68,209	0.36	212	0.29	0.16	0.84
	0.03	0.05	0.0	215,234,0	0.22	6.07e-03	6.07e-03	212,69,69			1.00	0.04	0.96
107	0.15	0.11	0.0	212,209,0	0.18	6.54e-03	0.01	209,68,209	0.33	209	0.29	0.16	0.84
	0.03	0.03	0.0	215,214,0	0.18	6.07e-03	6.07e-03	209,69,69			1.00	0.04	0.96
108	4.32e-03	3.87e-03	0.0	212,209,0	0.22	8.28e-04	3.22e-03	212,68,68	0.36	212	0.29	0.16	0.84
	5.69e-03	0.01	0.0	235,234,0	0.22	4.66e-03	4.66e-03	212,69,69			1.00	0.04	0.96
109	0.10	0.07	0.0	212,209,0	0.23	2.78e-03	7.57e-03	212,68,209	0.37	212	0.29	0.16	0.84
	0.01	0.01	0.0	212,209,0	0.23	2.45e-03	2.45e-03	212,69,69			1.00	0.04	0.96
110	0.10	0.07	0.0	212,209,0	0.15	2.78e-03	7.57e-03	212,68,209	0.29	212	0.29	0.16	0.84
	0.01	0.01	0.0	212,209,0	0.15	1.16e-03	1.16e-03	212,69,69			1.00	0.04	0.96
111	0.01	9.08e-03	0.0	212,209,0	0.23	1.65e-03	3.69e-03	212,68,68	0.37	212	0.29	0.16	0.84
	4.34e-03	5.58e-03	0.0	215,214,0	0.23	2.45e-03	2.45e-03	212,69,69			1.00	0.04	0.96
112	0.05	0.03	0.0	212,209,0	0.23	4.63e-03	4.63e-03	212,69,69	0.37	212	0.29	0.16	0.84
	0.06	0.06	0.0	209,212,0	0.23	9.89e-03	9.89e-03	212,68,68			1.00	0.04	0.96
113	0.05	0.03	0.0	212,209,0	0.17	4.63e-03	4.63e-03	212,69,69	0.32	212	0.29	0.16	0.84
	0.06	0.05	0.0	209,212,0	0.17	5.24e-03	5.24e-03	212,69,69			1.00	0.04	0.96
114	0.01	9.08e-03	0.0	212,209,0	0.23	1.65e-03	3.69e-03	212,68,68	0.37	212	0.29	0.16	0.84
	6.15e-03	9.26e-03	0.0	209,212,0	0.23	5.11e-03	5.11e-03	212,69,69			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.15	0.11	0.0	0.23	9.89e-03	0.01	0.37

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
8	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.99	163.8	177	0.59	97.3	177	0.99	1524.4	8.381e+06	212

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
155	0.31	0.29	0.0	209,212,0	0.21	0.02	0.04	209,69,212	0.35	209	0.85	0.06	0.94
	4.01e-03	2.68e-03	0.0	209,212,0	0.21	4.55e-04	4.55e-04	209,225,225			1.00	0.04	0.96
156	0.31	0.29	0.0	209,212,0	0.21	0.02	0.04	209,69,212	0.35	209	0.85	0.06	0.94
	5.46e-03	3.64e-03	0.0	209,212,0	0.21	4.55e-04	4.55e-04	209,225,225			1.00	0.04	0.96
157	0.31	0.29	0.0	209,212,0	0.27	0.02	0.04	209,69,212	0.40	209	0.85	0.06	0.94
	7.65e-03	5.08e-03	0.0	209,212,0	0.27	4.79e-04	4.79e-04	209,225,225			1.00	0.04	0.96
158	0.31	0.29	0.0	209,212,0	0.25	0.02	0.04	209,69,212	0.38	209	0.85	0.06	0.94
	5.56e-03	3.65e-03	0.0	209,212,0	0.25	4.79e-04	4.79e-04	209,225,225			1.00	0.04	0.96
159	0.26	0.24	0.0	209,212,0	0.17	0.02	0.03	209,69,65	0.32	209	0.85	0.06	0.94
	5.46e-03	3.64e-03	0.0	209,212,0	0.17	3.08e-04	3.08e-04	209,66,66			1.00	0.04	0.96
160	0.26	0.24	0.0	209,212,0	0.29	0.02	0.03	209,69,65	0.41	209	0.85	0.06	0.94
	7.65e-03	5.08e-03	0.0	209,212,0	0.29	3.89e-04	3.89e-04	209,70,70			1.00	0.04	0.96
161	0.21	0.19	0.0	209,212,0	0.15	7.31e-03	0.03	209,69,65	0.30	209	0.85	0.06	0.94
	3.77e-03	2.77e-03	0.0	71,66,0	0.15	1.80e-04	1.80e-04	209,68,68			1.00	0.04	0.96
162	0.21	0.19	0.0	209,212,0	0.29	7.31e-03	0.03	209,69,65	0.41	209	0.85	0.06	0.94
	3.77e-03	2.77e-03	0.0	71,66,0	0.29	3.06e-04	3.06e-04	209,68,68			1.00	0.04	0.96
163	0.11	0.09	0.0	209,212,0	0.27	0.02	0.03	209,66,65	0.40	209	0.85	0.06	0.94
	7.65e-03	5.08e-03	0.0	209,212,0	0.27	4.86e-04	4.86e-04	209,225,225			1.00	0.04	0.96
164	0.10	0.09	0.0	209,212,0	0.25	0.02	0.03	209,66,65	0.38	209	0.85	0.06	0.94
	5.56e-03	3.65e-03	0.0	209,212,0	0.25	4.86e-04	4.86e-04	209,225,225			1.00	0.04	0.96
165	0.11	0.10	0.0	209,212,0	0.29	0.02	0.03	209,68,65	0.41	209	0.85	0.06	0.94
	7.65e-03	5.08e-03	0.0	209,212,0	0.29	3.89e-04	3.89e-04	209,70,70			1.00	0.04	0.96
166	0.12	0.10	0.0	209,212,0	0.29	7.25e-03	0.03	209,68,65	0.41	209	0.85	0.06	0.94
	2.96e-03	2.18e-03	0.0	71,66,0	0.29	3.06e-04	3.06e-04	209,68,68			1.00	0.04	0.96
167	0.07	0.05	0.0	209,212,0	0.27	0.02	0.03	209,69,69	0.40	209	0.85	0.06	0.94
	3.11e-03	2.62e-03	0.0	212,209,0	0.27	4.86e-04	4.86e-04	209,225,225			1.00	0.04	0.96
168	0.07	0.05	0.0	209,212,0	0.25	0.02	0.03	209,69,69	0.38	209	0.85	0.06	0.94
	1.60e-03	1.37e-03	0.0	212,209,0	0.25	4.86e-04	4.86e-04	209,225,225			1.00	0.04	0.96
169	0.08	0.05	0.0	68,212,0	0.29	0.02	0.03	209,69,69	0.41	209	0.85	0.06	0.94
	3.11e-03	2.62e-03	0.0	212,209,0	0.29	1.78e-04	1.78e-04	209,68,68			1.00	0.04	0.96
170	0.08	0.05	0.0	68,212,0	0.30	7.17e-03	0.03	209,69,69	0.42	209	0.85	0.06	0.94
	2.41e-03	2.23e-03	0.0	212,209,0	0.30	1.78e-04	1.78e-04	209,68,68			1.00	0.04	0.96
171	0.07	0.03	0.0	68,69,0	0.27	0.02	0.02	209,69,69	0.40	209	0.85	0.06	0.94
	6.71e-03	5.40e-03	0.0	212,209,0	0.27	4.86e-04	4.86e-04	209,225,225			1.00	0.04	0.96
172	0.07	0.03	0.0	212,209,0	0.25	0.02	0.02	209,69,69	0.38	209	0.85	0.06	0.94
	4.21e-03	3.40e-03	0.0	212,209,0	0.25	4.86e-04	4.86e-04	209,225,225			1.00	0.04	0.96
173	0.09	0.04	0.0	68,69,0	0.29	0.02	0.02	209,69,69	0.41	209	0.85	0.06	0.94
	6.71e-03	5.40e-03	0.0	212,209,0	0.29	2.73e-04	2.73e-04	209,68,68			1.00	0.04	0.96
174	0.10	0.04	0.0	68,69,0	0.30	7.18e-03	7.18e-03	209,69,69	0.42	209	0.85	0.06	0.94
	4.80e-03	4.21e-03	0.0	212,209,0	0.30	2.33e-04	2.33e-04	209,68,68			1.00	0.04	0.96
175	0.15	0.10	0.0	212,209,0	0.26	0.02	0.02	209,68,68	0.39	209	0.85	0.06	0.94
	9.99e-03	7.57e-03	0.0	212,209,0	0.26	4.82e-04	4.82e-04	209,225,225			1.00	0.04	0.96
176	0.14	0.09	0.0	212,209,0	0.24	0.02	0.02	209,68,68	0.38	209	0.85	0.06	0.94
	6.63e-03	5.03e-03	0.0	212,209,0	0.24	4.82e-04	4.82e-04	209,225,225			1.00	0.04	0.96
177	0.16	0.10	0.0	212,209,0	0.26	0.02	0.02	212,68,68	0.39	212	0.85	0.06	0.94
	9.99e-03	7.57e-03	0.0	212,209,0	0.26	4.04e-04	4.04e-04	212,68,68			1.00	0.04	0.96
178	0.16	0.10	0.0	212,209,0	0.26	7.27e-03	0.01	212,72,209	0.39	212	0.85	0.06	0.94
	4.80e-03	4.21e-03	0.0	212,209,0	0.26	2.81e-04	2.81e-04	212,68,68			1.00	0.04	0.96
179	0.16	0.14	0.0	209,212,0	0.15	9.02e-03	0.03	209,68,65	0.30	209	0.85	0.06	0.94
	3.77e-03	2.77e-03	0.0	71,66,0	0.15	2.53e-04	2.53e-04	209,68,68			1.00	0.04	0.96
180	0.16	0.14	0.0	209,212,0	0.29	9.02e-03	0.03	209,68,65	0.41	209	0.85	0.06	0.94
	5.12e-03	3.29e-03	0.0	209,212,0	0.29	3.34e-04	3.34e-04	209,68,68			1.00	0.04	0.96
181	0.11	0.10	0.0	209,212,0	0.15	0.02	0.03	209,68,65	0.30	209	0.85	0.06	0.94
	4.78e-03	3.48e-03	0.0	209,212,0	0.15	4.75e-04	4.75e-04	209,68,68			1.00	0.04	0.96
182	0.13	0.11	0.0	209,212,0	0.28	0.02	0.03	209,68,65	0.40	209	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.28	4.75e-04	4.75e-04	209,68,68			1.00	0.04	0.96
183	0.12	0.10	0.0	209,212,0	0.29	8.80e-03	0.03	209,69,65	0.41	209	0.85	0.06	0.94
	0.01	6.98e-03	0.0	209,212,0	0.29	3.34e-04	3.34e-04	209,68,68			1.00	0.04	0.96
184	0.13	0.11	0.0	209,212,0	0.28	0.02	0.03	209,68,69	0.40	209	0.85	0.06	0.94

	0.06	0.04	0.0 209,212,0	0.28	3.34e-04	3.34e-04 209,68,68			1.00	0.04	0.96
185	0.08	0.05	0.0 68,212,0	0.31	8.73e-03	0.03 209,69,69	0.43	209	0.85	0.06	0.94
	0.01	6.98e-03	0.0 209,212,0	0.31	1.98e-04	1.98e-04209,227,227			1.00	0.04	0.96
186	0.08	0.05	0.0 68,212,0	0.31	0.02	0.03 209,69,69	0.43	209	0.85	0.06	0.94
	0.10	0.07	0.0 209,212,0	0.31	4.30e-04	4.30e-04209,235,235			1.00	0.04	0.96
187	0.10	0.04	0.0 68,69,0	0.31	8.83e-03	8.83e-03 209,68,68	0.43	209	0.85	0.06	0.94
	7.44e-03	5.37e-03	0.0 209,212,0	0.31	2.34e-04	2.34e-04 209,68,68			1.00	0.04	0.96
188	0.09	0.04	0.0 68,69,0	0.31	0.02	0.02 209,69,69	0.43	209	0.85	0.06	0.94
	0.14	0.09	0.0 209,212,0	0.31	4.30e-04	4.30e-04209,235,235			1.00	0.04	0.96
189	0.17	0.11	0.0 212,209,0	0.25	8.83e-03	0.01212,68,209	0.39	212	0.85	0.06	0.94
	0.04	0.02	0.0 209,212,0	0.25	3.32e-04	3.32e-04 212,68,68			1.00	0.04	0.96
190	0.18	0.11	0.0 212,209,0	0.28	0.02	0.02 209,69,69	0.41	209	0.85	0.06	0.94
	0.14	0.09	0.0 209,212,0	0.28	5.10e-04	5.10e-04 209,68,68			1.00	0.04	0.96
191	0.07	0.06	0.0 209,212,0	0.14	0.02	0.03 209,68,65	0.29	209	0.85	0.06	0.94
	5.75e-03	4.89e-03	0.0 72,65,0	0.14	3.36e-03	3.36e-03 209,69,69			1.00	0.04	0.96
192	0.13	0.12	0.0 209,212,0	0.22	0.02	0.03 209,68,65	0.36	209	0.85	0.06	0.94
	0.03	0.02	0.0 209,212,0	0.22	3.36e-03	3.36e-03 209,69,69			1.00	0.04	0.96
193	0.03	0.03	0.0 209,212,0	0.12	0.02	0.03 209,68,65	0.26	209	0.85	0.06	0.94
	5.75e-03	4.89e-03	0.0 72,65,0	0.12	3.36e-03	3.36e-03 209,69,69			1.00	0.04	0.96
194	0.13	0.12	0.0 209,212,0	0.14	0.02	0.03 209,68,65	0.28	209	0.85	0.06	0.94
	0.02	0.01	0.0 209,212,0	0.14	3.36e-03	3.36e-03 209,69,69			1.00	0.04	0.96
195	0.13	0.12	0.0 209,212,0	0.23	0.02	0.03 209,68,69	0.37	209	0.85	0.06	0.94
	0.06	0.04	0.0 209,212,0	0.23	9.34e-04	9.34e-04209,227,227			1.00	0.04	0.96
196	0.13	0.12	0.0 209,212,0	0.14	0.02	0.03 209,68,69	0.28	209	0.85	0.06	0.94
	0.04	0.03	0.0 209,212,0	0.14	9.34e-04	9.34e-04209,227,227			1.00	0.04	0.96
197	0.06	0.04	0.0 68,212,0	0.30	0.02	0.02 209,69,69	0.42	209	0.85	0.06	0.94
	0.10	0.07	0.0 209,212,0	0.30	9.34e-04	9.34e-04209,227,227			1.00	0.04	0.96
198	0.05	0.04	0.0 209,212,0	0.14	0.02	0.02 209,69,69	0.29	209	0.85	0.06	0.94
	0.08	0.05	0.0 209,212,0	0.14	9.34e-04	9.34e-04209,227,227			1.00	0.04	0.96
199	0.07	0.02	0.0 68,69,0	0.30	0.02	0.02 209,69,69	0.42	209	0.85	0.06	0.94
	0.14	0.09	0.0 209,212,0	0.30	2.53e-03	2.53e-03209,227,227			1.00	0.04	0.96
200	0.05	0.02	0.0 52,212,0	0.14	0.02	0.02 209,69,69	0.29	209	0.85	0.06	0.94
	0.14	0.08	0.0 209,212,0	0.14	2.53e-03	2.53e-03209,227,227			1.00	0.04	0.96
201	0.19	0.13	0.0 212,209,0	0.28	0.02	0.02 209,69,69	0.41	209	0.85	0.06	0.94
	0.14	0.09	0.0 209,212,0	0.28	2.53e-03	2.53e-03209,227,227			1.00	0.04	0.96
202	0.19	0.13	0.0 212,209,0	0.03	0.02	0.02 209,69,69	0.14	209	0.85	0.06	0.94
	0.14	0.08	0.0 209,212,0	0.03	2.53e-03	2.53e-03209,227,227			1.00	0.04	0.96
203	0.38	0.32	0.0 212,209,0	0.26	0.02	0.04209,68,209	0.39	209	0.85	0.06	0.94
	9.99e-03	7.57e-03	0.0 212,209,0	0.26	4.68e-04	4.68e-04209,225,225			1.00	0.04	0.96
204	0.38	0.32	0.0 212,209,0	0.24	0.02	0.04209,68,209	0.38	209	0.85	0.06	0.94
	6.63e-03	5.03e-03	0.0 212,209,0	0.24	4.68e-04	4.68e-04209,225,225			1.00	0.04	0.96
205	0.32	0.26	0.0 212,209,0	0.26	0.02	0.03212,68,209	0.39	212	0.85	0.06	0.94
	9.99e-03	7.57e-03	0.0 212,209,0	0.26	4.04e-04	4.04e-04 212,68,68			1.00	0.04	0.96
206	0.27	0.21	0.0 212,209,0	0.26	7.33e-03	0.02212,68,209	0.39	212	0.85	0.06	0.94
	2.88e-03	3.01e-03	0.0 212,209,0	0.26	2.81e-04	2.81e-04 212,68,68			1.00	0.04	0.96
207	0.38	0.32	0.0 212,209,0	0.20	0.02	0.04212,68,209	0.34	212	0.85	0.06	0.94
	5.73e-03	4.16e-03	0.0 212,209,0	0.20	4.40e-04	4.40e-04212,225,225			1.00	0.04	0.96
208	0.38	0.32	0.0 212,209,0	0.20	0.02	0.04212,68,209	0.34	212	0.85	0.06	0.94
	4.22e-03	3.06e-03	0.0 212,209,0	0.20	4.40e-04	4.40e-04212,225,225			1.00	0.04	0.96
209	0.32	0.26	0.0 212,209,0	0.16	0.02	0.03212,68,209	0.30	212	0.85	0.06	0.94
	5.73e-03	4.16e-03	0.0 212,209,0	0.16	2.44e-04	2.44e-04 212,68,68			1.00	0.04	0.96
210	0.27	0.21	0.0 212,209,0	0.14	7.33e-03	0.02212,68,209	0.28	212	0.85	0.06	0.94
	2.58e-03	2.45e-03	0.0 69,68,0	0.14	1.67e-04	1.67e-04 212,68,68			1.00	0.04	0.96
211	0.21	0.16	0.0 212,209,0	0.25	9.03e-03	0.02212,69,209	0.39	212	0.85	0.06	0.94
	0.04	0.02	0.0 209,212,0	0.25	3.32e-04	3.32e-04 212,68,68			1.00	0.04	0.96
212	0.18	0.11	0.0 212,209,0	0.28	0.02	0.02 209,70,70	0.41	209	0.85	0.06	0.94
	0.07	0.04	0.0 212,209,0	0.28	5.10e-04	5.10e-04 209,68,68			1.00	0.04	0.96
213	0.21	0.16	0.0 212,209,0	0.16	9.03e-03	0.02212,69,209	0.31	212	0.85	0.06	0.94
	0.01	8.40e-03	0.0 209,212,0	0.16	2.40e-04	2.40e-04 212,68,68			1.00	0.04	0.96
214	0.16	0.11	0.0 212,209,0	0.21	0.02	0.02 212,70,70	0.35	212	0.85	0.06	0.94
	0.02	0.01	0.0 212,209,0	0.21	5.03e-04	5.03e-04212,227,227			1.00	0.04	0.96
215	0.19	0.13	0.0 212,209,0	0.28	0.02	0.02 209,69,69	0.41	209	0.85	0.06	0.94
	0.08	0.05	0.0 212,209,0	0.28	2.89e-03	2.89e-03 209,69,69			1.00	0.04	0.96
216	0.19	0.13	0.0 212,209,0	0.08	0.02	0.02 212,69,69	0.22	212	0.85	0.06	0.94
	0.08	0.05	0.0 212,209,0	0.08	2.89e-03	2.89e-03 212,69,69			1.00	0.04	0.96
217	0.10	0.06	0.0 212,209,0	0.21	0.02	0.02 212,68,68	0.35	212	0.85	0.06	0.94
	0.02	0.01	0.0 212,209,0	0.21	2.89e-03	2.89e-03 212,69,69			1.00	0.04	0.96
218	0.05	0.02	0.0 212,209,0	0.08	0.02	0.02 212,68,68	0.22	212	0.85	0.06	0.94
	0.01	8.24e-03	0.0 212,209,0	0.08	2.89e-03	2.89e-03 212,69,69			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.38	0.32	0.0	0.31	0.02	0.04	0.43

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
9	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.78	-14.4	180	0.77	-14.2	180	0.93	-643.8	3.005e+05	212

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
219	0.20	0.20	0.0	209,212,0	0.07	1.65e-03	0.02	212,234,212	0.20	212	0.85	0.06	0.94
	6.85e-05	1.72e-04	0.0	19,44,0	0.07	4.94e-04	4.94e-04	212,210,210			1.00	0.04	0.96
220	0.20	0.20	0.0	209,212,0	0.07	1.65e-03	0.02	212,234,212	0.20	212	0.85	0.06	0.94
	6.85e-05	1.72e-04	0.0	19,44,0	0.07	4.94e-04	4.94e-04	212,210,210			1.00	0.04	0.96
221	0.21	0.20	0.0	212,209,0	0.07	1.65e-03	0.02	212,225,209	0.20	212	0.85	0.06	0.94
	1.87e-04	1.72e-04	0.0	48,44,0	0.07	4.94e-04	4.94e-04	212,210,210			1.00	0.04	0.96
222	0.21	0.20	0.0	212,209,0	0.07	1.65e-03	0.02	212,225,209	0.20	212	0.85	0.06	0.94
	1.87e-04	1.72e-04	0.0	48,44,0	0.07	4.94e-04	4.94e-04	212,210,210			1.00	0.04	0.96
223	0.14	0.14	0.0	209,212,0	0.06	1.38e-03	0.02	212,234,212	0.20	212	0.85	0.06	0.94
	2.76e-05	4.93e-05	0.0	212,44,0	0.06	1.17e-04	1.17e-04	212,211,211			1.00	0.04	0.96
224	0.15	0.15	0.0	212,209,0	0.06	1.41e-03	0.02	212,225,209	0.20	212	0.85	0.06	0.94
	6.00e-05	4.93e-05	0.0	48,44,0	0.06	1.17e-04	1.17e-04	212,211,211			1.00	0.04	0.96
225	0.09	0.09	0.0	209,212,0	0.06	1.03e-03	0.01	212,234,212	0.20	212	0.85	0.06	0.94
	1.20e-04	9.25e-05	0.0	209,212,0	0.06	1.86e-05	1.86e-05	212,210,210			1.00	0.04	0.96
226	0.09	0.09	0.0	212,209,0	0.06	1.03e-03	0.01	212,234,209	0.20	212	0.85	0.06	0.94
	1.20e-04	9.25e-05	0.0	209,212,0	0.06	2.03e-05	2.03e-05	212,211,211			1.00	0.04	0.96
227	0.21	0.20	0.0	212,209,0	0.07	1.65e-03	0.02	212,225,209	0.20	212	0.85	0.06	0.94
	1.87e-04	8.95e-05	0.0	48,15,0	0.07	4.94e-04	4.94e-04	212,210,210			1.00	0.04	0.96
228	0.21	0.20	0.0	212,209,0	0.07	1.65e-03	0.02	212,225,209	0.20	212	0.85	0.06	0.94
	1.87e-04	8.95e-05	0.0	48,15,0	0.07	4.94e-04	4.94e-04	212,210,210			1.00	0.04	0.96
229	0.15	0.15	0.0	212,209,0	0.06	1.41e-03	0.02	212,225,209	0.20	212	0.85	0.06	0.94
	6.00e-05	2.47e-05	0.0	48,15,0	0.06	1.17e-04	1.17e-04	212,211,211			1.00	0.04	0.96
230	0.09	0.09	0.0	212,209,0	0.06	1.02e-03	0.01	212,225,209	0.20	212	0.85	0.06	0.94
	6.80e-05	6.15e-05	0.0	222,223,0	0.06	2.03e-05	2.03e-05	212,211,211			1.00	0.04	0.96
231	0.03	0.04	0.0	209,212,0	0.06	7.79e-04	4.95e-03	212,225,212	0.20	212	0.85	0.06	0.94
	4.72e-04	3.75e-04	0.0	212,209,0	0.06	5.66e-05	5.66e-05	212,215,215			1.00	0.04	0.96
232	0.03	0.04	0.0	212,209,0	0.06	7.79e-04	5.02e-03	212,225,209	0.20	212	0.85	0.06	0.94
	4.72e-04	3.75e-04	0.0	212,209,0	0.06	5.66e-05	5.66e-05	212,215,215			1.00	0.04	0.96
233	0.07	0.08	0.0	212,209,0	0.06	1.54e-03	9.42e-03	212,225,209	0.19	212	0.85	0.06	0.94
	2.12e-03	1.72e-03	0.0	209,212,0	0.06	4.41e-04	4.41e-04	212,215,215			1.00	0.04	0.96
234	0.07	0.08	0.0	212,209,0	0.06	1.54e-03	9.42e-03	212,225,209	0.19	212	0.85	0.06	0.94
	2.12e-03	1.72e-03	0.0	209,212,0	0.06	4.41e-04	4.41e-04	212,215,215			1.00	0.04	0.96
235	0.03	0.04	0.0	212,209,0	0.06	7.05e-04	5.02e-03	212,234,209	0.20	212	0.85	0.06	0.94
	2.79e-04	2.60e-04	0.0	223,222,0	0.06	2.44e-05	2.44e-05	212,219,219			1.00	0.04	0.96
236	0.07	0.08	0.0	209,212,0	0.06	1.43e-03	8.32e-03	212,234,212	0.19	212	0.85	0.06	0.94
	1.37e-03	1.26e-03	0.0	222,223,0	0.06	2.88e-04	2.88e-04	212,222,222			1.00	0.04	0.96
237	0.13	0.12	0.0	212,209,0	0.06	2.35e-03	0.01	209,225,209	0.19	209	0.85	0.06	0.94
	8.80e-03	7.43e-03	0.0	215,214,0	0.06	2.30e-03	2.30e-03	209,214,214			1.00	0.04	0.96
238	0.13	0.12	0.0	212,209,0	0.06	2.35e-03	0.01	212,225,209	0.19	212	0.85	0.06	0.94
	8.80e-03	7.43e-03	0.0	215,214,0	0.06	2.30e-03	2.30e-03	212,214,214			1.00	0.04	0.96
239	0.13	0.12	0.0	212,209,0	0.06	2.35e-03	0.01	209,225,209	0.19	209	0.85	0.06	0.94
	8.80e-03	7.43e-03	0.0	215,214,0	0.06	2.30e-03	2.30e-03	209,214,214			1.00	0.04	0.96
240	0.13	0.12	0.0	212,209,0	0.06	2.35e-03	0.01	209,225,209	0.19	209	0.85	0.06	0.94
	8.80e-03	7.43e-03	0.0	215,214,0	0.06	2.30e-03	2.30e-03	209,214,214			1.00	0.04	0.96
241	0.12	0.12	0.0	209,212,0	0.06	2.32e-03	0.01	212,226,212	0.19	212	0.85	0.06	0.94
	6.08e-03	5.74e-03	0.0	223,222,0	0.06	1.60e-03	1.60e-03	212,222,222			1.00	0.04	0.96
242	0.12	0.12	0.0	209,212,0	0.06	2.32e-03	0.01	212,226,212	0.19	212	0.85	0.06	0.94
	6.08e-03	5.74e-03	0.0	223,222,0	0.06	1.60e-03	1.60e-03	212,222,222			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.21	0.20	0.0	0.07	2.35e-03	0.02	0.20

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
10	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.91	-87.4	180	0.90	-86.2	180	0.67	1.693e+04	-2.171e+06	209

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B

243	0.30	0.29	0.0 209,212,0	0.17	0.03	0.04 212,68,68	0.32	212	0.85	0.06	0.94
	3.60e-03	2.65e-03	0.0 209,212,0	0.17	3.43e-03	3.43e-03 212,68,68			1.00	0.04	0.96
244	0.30	0.29	0.0 209,212,0	0.17	0.03	0.04 212,68,68	0.32	212	0.85	0.06	0.94
	5.28e-03	3.63e-03	0.0 225,212,0	0.17	3.43e-03	3.43e-03 212,68,68			1.00	0.04	0.96
245	0.30	0.29	0.0 209,212,0	0.23	0.03	0.04 212,68,68	0.37	212	0.85	0.06	0.94
	0.01	8.01e-03	0.0 225,228,0	0.23	4.41e-03	4.41e-03 212,68,68			1.00	0.04	0.96
246	0.30	0.29	0.0 209,212,0	0.21	0.03	0.04 212,68,68	0.35	212	0.85	0.06	0.94
	6.70e-03	4.72e-03	0.0 225,228,0	0.21	4.41e-03	4.41e-03 212,68,68			1.00	0.04	0.96
247	0.25	0.24	0.0 209,212,0	0.14	0.02	0.04 212,68,68	0.29	212	0.85	0.06	0.94
	5.28e-03	3.63e-03	0.0 225,212,0	0.14	3.39e-03	3.39e-03 212,68,68			1.00	0.04	0.96
248	0.25	0.24	0.0 209,212,0	0.24	0.02	0.04 212,68,68	0.38	212	0.85	0.06	0.94
	0.02	0.01	0.0 68,68,0	0.24	4.62e-03	4.62e-03 212,68,68			1.00	0.04	0.96
249	0.20	0.20	0.0 209,212,0	0.13	0.01	0.04 212,68,68	0.27	212	0.85	0.06	0.94
	3.27e-03	2.19e-03	0.0 225,228,0	0.13	3.66e-03	3.66e-03 212,68,68			1.00	0.04	0.96
250	0.20	0.20	0.0 209,212,0	0.25	0.01	0.04 212,68,68	0.38	212	0.85	0.06	0.94
	0.02	0.01	0.0 68,68,0	0.25	4.86e-03	4.86e-03 212,68,68			1.00	0.04	0.96
251	0.08	0.10	0.0 209,212,0	0.23	0.02	0.03 212,69,68	0.37	212	0.85	0.06	0.94
	0.02	0.01	0.0 68,68,0	0.23	4.41e-03	4.41e-03 212,68,68			1.00	0.04	0.96
252	0.08	0.09	0.0 225,228,0	0.21	0.02	0.03 212,69,68	0.35	212	0.85	0.06	0.94
	8.49e-03	5.92e-03	0.0 231,230,0	0.21	4.41e-03	4.41e-03 212,68,68			1.00	0.04	0.96
253	0.09	0.10	0.0 209,212,0	0.24	0.02	0.03 212,69,68	0.38	212	0.85	0.06	0.94
	0.03	0.02	0.0 68,68,0	0.24	4.62e-03	4.62e-03 212,68,68			1.00	0.04	0.96
254	0.09	0.10	0.0 209,212,0	0.25	7.26e-03	0.03 212,69,68	0.38	212	0.85	0.06	0.94
	0.03	0.02	0.0 68,68,0	0.25	4.86e-03	4.86e-03 212,68,68			1.00	0.04	0.96
255	0.21	0.20	0.0 235,234,0	0.22	0.02	0.03212,69,234	0.36	212	0.85	0.06	0.94
	0.02	0.01	0.0 68,68,0	0.22	0.01	0.01 212,68,68			1.00	0.04	0.96
256	0.21	0.20	0.0 235,234,0	0.21	0.02	0.03212,69,234	0.35	212	0.85	0.06	0.94
	8.49e-03	5.92e-03	0.0 231,230,0	0.21	3.81e-03	3.81e-03 212,68,68			1.00	0.04	0.96
257	0.19	0.19	0.0 235,234,0	0.23	9.66e-03	0.03212,69,234	0.37	212	0.85	0.06	0.94
	0.03	0.02	0.0 68,68,0	0.23	0.01	0.01 212,68,68			1.00	0.04	0.96
258	0.17	0.17	0.0 235,234,0	0.23	4.32e-03	0.02212,69,234	0.37	212	0.85	0.06	0.94
	0.03	0.02	0.0 68,68,0	0.23	0.01	0.01 212,68,68			1.00	0.04	0.96
259	0.21	0.20	0.0 235,234,0	0.20	7.61e-03	0.03212,235,234	0.34	212	0.85	0.06	0.94
	0.01	8.45e-03	0.0 69,68,0	0.20	0.01	0.01 212,68,68			1.00	0.04	0.96
260	0.21	0.20	0.0 235,234,0	0.20	7.61e-03	0.03212,235,234	0.34	212	0.85	0.06	0.94
	7.02e-03	5.05e-03	0.0 69,68,0	0.20	1.22e-03	1.22e-03212,231,231			1.00	0.04	0.96
261	0.19	0.19	0.0 235,234,0	0.20	2.43e-03	0.03212,69,234	0.34	212	0.85	0.06	0.94
	0.01	0.01	0.0 71,68,0	0.20	0.01	0.01 212,68,68			1.00	0.04	0.96
262	0.17	0.17	0.0 235,234,0	0.20	2.51e-03	0.02212,226,234	0.34	212	0.85	0.06	0.94
	0.02	0.01	0.0 67,68,0	0.20	0.01	0.01 212,68,68			1.00	0.04	0.96
263	0.16	0.15	0.0 209,212,0	0.13	0.01	0.04 212,68,68	0.28	212	0.85	0.06	0.94
	3.38e-03	2.42e-03	0.0 215,214,0	0.13	3.66e-03	3.66e-03 212,68,68			1.00	0.04	0.96
264	0.16	0.15	0.0 209,212,0	0.25	0.01	0.04 212,68,68	0.38	212	0.85	0.06	0.94
	0.02	0.01	0.0 68,68,0	0.25	4.86e-03	4.86e-03 212,68,68			1.00	0.04	0.96
265	0.11	0.11	0.0 209,212,0	0.15	0.02	0.04 212,68,68	0.30	212	0.85	0.06	0.94
	3.38e-03	3.08e-03	0.0 215,209,0	0.15	3.41e-03	3.41e-03 212,68,68			1.00	0.04	0.96
266	0.11	0.11	0.0 209,212,0	0.24	0.02	0.04 212,68,68	0.38	212	0.85	0.06	0.94
	0.02	0.01	0.0 68,68,0	0.24	4.59e-03	4.59e-03 212,68,68			1.00	0.04	0.96
267	0.10	0.10	0.0 209,212,0	0.25	8.90e-03	0.03 212,69,68	0.38	212	0.85	0.06	0.94
	0.03	0.02	0.0 68,68,0	0.25	4.86e-03	4.86e-03 212,68,68			1.00	0.04	0.96
268	0.10	0.11	0.0 209,212,0	0.24	0.02	0.03 212,69,68	0.38	212	0.85	0.06	0.94
	0.03	0.02	0.0 68,68,0	0.24	4.59e-03	4.59e-03 212,68,68			1.00	0.04	0.96
269	0.14	0.14	0.0 235,234,0	0.23	5.31e-03	0.02212,69,234	0.37	212	0.85	0.06	0.94
	0.03	0.02	0.0 68,68,0	0.23	0.01	0.01 212,68,68			1.00	0.04	0.96
270	0.11	0.12	0.0 235,234,0	0.23	0.01	0.02 212,69,68	0.37	212	0.85	0.06	0.94
	0.03	0.02	0.0 68,68,0	0.23	0.01	0.01 212,68,68			1.00	0.04	0.96
271	0.14	0.14	0.0 235,234,0	0.19	2.94e-03	0.02212,227,234	0.34	212	0.85	0.06	0.94
	0.02	0.01	0.0 67,68,0	0.19	0.01	0.01 212,68,68			1.00	0.04	0.96
272	0.11	0.12	0.0 235,234,0	0.19	2.94e-03	0.02212,227,234	0.33	212	0.85	0.06	0.94
	0.01	0.01	0.0 71,68,0	0.19	0.01	0.01 212,68,68			1.00	0.04	0.96
273	0.06	0.07	0.0 209,212,0	0.19	0.03	0.04 212,68,68	0.34	212	0.85	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.19	3.00e-03	3.00e-03 212,68,68			1.00	0.04	0.96
274	0.11	0.11	0.0 209,212,0	0.23	0.03	0.04 212,68,68	0.37	212	0.85	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.23	5.13e-03	5.13e-03 212,68,68			1.00	0.04	0.96
275	0.02	0.04	0.0 225,228,0	0.19	0.03	0.04 212,68,68	0.34	212	0.85	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.19	2.33e-03	2.33e-03212,225,225			1.00	0.04	0.96
276	0.11	0.11	0.0 209,212,0	0.22	0.03	0.04 212,68,68	0.36	212	0.85	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.22	5.13e-03	5.13e-03 212,68,68			1.00	0.04	0.96
277	0.11	0.11	0.0 209,212,0	0.23	0.02	0.03 212,69,68	0.37	212	0.85	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.23	5.13e-03	5.13e-03 212,68,68			1.00	0.04	0.96
278	0.11	0.11	0.0 209,212,0	0.22	0.02	0.03 212,69,68	0.36	212	0.85	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.22	5.13e-03	5.13e-03 212,68,68			1.00	0.04	0.96
279	0.09	0.10	0.0 235,234,0	0.22	0.02	0.02 212,69,68	0.36	212	0.85	0.06	0.94
	0.02	0.02	0.0 71,68,0	0.22	0.01	0.01 212,68,68			1.00	0.04	0.96
280	0.07	0.09	0.0 235,234,0	0.20	0.02	0.02 212,69,68	0.34	212	0.85	0.06	0.94
	0.02	0.01	0.0 212,209,0	0.20	7.24e-03	7.24e-03 212,69,69			1.00	0.04	0.96
281	0.09	0.10	0.0 235,234,0	0.19	2.56e-03	0.01212,227,234	0.33	212	0.85	0.06	0.94

	9.69e-03	9.71e-03	0.0	69,68,0	0.19	0.01	0.01	212,68,68			1.00	0.04	0.96
282	0.07	0.10	0.0	235,234,0	0.19	0.01	0.01	212,69,68	0.33	212	0.85	0.06	0.94
	9.32e-03	7.48e-03	0.0	212,209,0	0.19	7.24e-03	7.24e-03	212,69,69			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.30	0.29	0.0	0.25	0.03	0.04	0.38

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
11	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	NV

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
NV	1.00	96.1	196	0.99	95.2	196	0.69	1.679e+04	2.264e+06	228

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
259	0.18	0.21	0.0	215,214,0	0.26	5.15e-03	0.03	228,44,214	0.39	228	0.85	0.06	0.94
	0.01	7.41e-03	0.0	45,45,0	0.26	9.58e-03	9.58e-03	228,45,45			1.00	0.04	0.96
260	0.18	0.21	0.0	215,214,0	0.26	5.15e-03	0.03	228,44,214	0.39	228	0.85	0.06	0.94
	4.91e-03	3.49e-03	0.0	45,214,0	0.26	9.37e-04	9.37e-04	228,214,214			1.00	0.04	0.96
261	0.16	0.19	0.0	215,214,0	0.25	2.53e-03	0.02	228,44,214	0.38	228	0.85	0.06	0.94
	0.01	9.83e-03	0.0	46,45,0	0.25	0.01	0.01	228,45,45			1.00	0.04	0.96
262	0.13	0.16	0.0	215,214,0	0.25	2.09e-03	0.02	228,211,214	0.38	228	0.85	0.06	0.94
	0.01	0.01	0.0	45,43,0	0.25	0.01	0.01	228,45,45			1.00	0.04	0.96
271	0.11	0.14	0.0	215,214,0	0.25	2.48e-03	0.02	228,211,214	0.38	228	0.85	0.06	0.94
	0.01	0.01	0.0	45,43,0	0.25	0.01	0.01	228,45,45			1.00	0.04	0.96
272	0.09	0.12	0.0	215,214,0	0.24	2.94e-03	0.02	228,44,214	0.38	228	0.85	0.06	0.94
	0.01	0.01	0.0	45,44,0	0.24	0.01	0.01	228,45,45			1.00	0.04	0.96
281	0.07	0.10	0.0	215,214,0	0.23	5.88e-03	0.01	228,44,214	0.37	228	0.85	0.06	0.94
	9.13e-03	9.11e-03	0.0	45,44,0	0.23	9.27e-03	9.27e-03	228,45,45			1.00	0.04	0.96
282	0.05	0.08	0.0	215,214,0	0.22	5.88e-03	0.01	228,44,44	0.36	228	0.85	0.06	0.94
	5.36e-03	6.24e-03	0.0	225,228,0	0.22	1.89e-03	1.89e-03	228,44,44			1.00	0.04	0.96
283	0.18	0.21	0.0	215,214,0	0.28	0.02	0.03	228,44,214	0.41	228	0.85	0.06	0.94
	0.02	0.01	0.0	46,47,0	0.28	9.58e-03	9.58e-03	228,45,45			1.00	0.04	0.96
284	0.18	0.21	0.0	215,214,0	0.27	0.02	0.03	228,44,214	0.40	228	0.85	0.06	0.94
	8.17e-03	5.40e-03	0.0	46,214,0	0.27	3.55e-03	3.55e-03	228,45,45			1.00	0.04	0.96
285	0.16	0.19	0.0	215,214,0	0.29	9.94e-03	0.03	228,44,44	0.41	228	0.85	0.06	0.94
	0.03	0.02	0.0	46,47,0	0.29	0.01	0.01	228,45,45			1.00	0.04	0.96
286	0.13	0.16	0.0	215,214,0	0.29	4.45e-03	0.02	228,44,44	0.41	228	0.85	0.06	0.94
	0.03	0.02	0.0	46,43,0	0.29	0.01	0.01	228,45,45			1.00	0.04	0.96
287	0.08	0.14	0.0	228,225,0	0.30	0.02	0.04	228,44,44	0.42	228	0.85	0.06	0.94
	0.02	0.01	0.0	46,47,0	0.30	4.37e-03	4.37e-03	228,45,45			1.00	0.04	0.96
288	0.07	0.13	0.0	228,225,0	0.27	0.02	0.04	228,44,44	0.40	228	0.85	0.06	0.94
	8.17e-03	5.40e-03	0.0	46,214,0	0.27	4.37e-03	4.37e-03	228,45,45			1.00	0.04	0.96
289	0.09	0.15	0.0	228,225,0	0.31	0.02	0.04	228,44,44	0.43	228	0.85	0.06	0.94
	0.03	0.02	0.0	46,47,0	0.31	4.42e-03	4.42e-03	228,45,45			1.00	0.04	0.96
290	0.09	0.15	0.0	228,225,0	0.32	7.30e-03	0.03	225,44,44	0.43	225	0.85	0.06	0.94
	0.03	0.02	0.0	46,43,0	0.32	4.62e-03	4.62e-03	225,45,45			1.00	0.04	0.96
291	0.31	0.38	0.0	228,225,0	0.30	0.03	0.05	228,45,44	0.42	228	0.85	0.06	0.94
	0.01	7.71e-03	0.0	46,43,0	0.30	4.37e-03	4.37e-03	228,45,45			1.00	0.04	0.96
292	0.31	0.38	0.0	228,225,0	0.27	0.03	0.05	228,45,225	0.40	228	0.85	0.06	0.94
	5.65e-03	4.21e-03	0.0	228,209,0	0.27	4.37e-03	4.37e-03	228,45,45			1.00	0.04	0.96
293	0.26	0.33	0.0	228,225,0	0.31	0.02	0.05	228,45,44	0.43	228	0.85	0.06	0.94
	0.01	0.01	0.0	46,43,0	0.31	4.42e-03	4.42e-03	228,45,45			1.00	0.04	0.96
294	0.20	0.27	0.0	228,225,0	0.32	0.01	0.05	225,45,44	0.43	225	0.85	0.06	0.94
	0.02	0.01	0.0	46,43,0	0.32	4.62e-03	4.62e-03	225,45,45			1.00	0.04	0.96
295	0.31	0.38	0.0	228,225,0	0.22	0.03	0.05	228,45,44	0.36	228	0.85	0.06	0.94
	5.56e-03	4.06e-03	0.0	228,225,0	0.22	3.34e-03	3.34e-03	228,45,45			1.00	0.04	0.96
296	0.31	0.38	0.0	228,225,0	0.22	0.03	0.05	228,45,225	0.36	228	0.85	0.06	0.94
	4.04e-03	2.91e-03	0.0	228,225,0	0.22	3.34e-03	3.34e-03	228,45,45			1.00	0.04	0.96
297	0.26	0.33	0.0	228,225,0	0.19	0.02	0.05	228,45,44	0.33	228	0.85	0.06	0.94
	5.56e-03	4.06e-03	0.0	228,225,0	0.19	3.24e-03	3.24e-03	228,45,45			1.00	0.04	0.96
298	0.20	0.27	0.0	228,225,0	0.17	0.01	0.05	228,45,44	0.32	228	0.85	0.06	0.94
	2.38e-03	2.25e-03	0.0	212,209,0	0.17	3.48e-03	3.48e-03	228,45,45			1.00	0.04	0.96
299	0.11	0.14	0.0	215,214,0	0.29	5.46e-03	0.02	228,44,44	0.41	228	0.85	0.06	0.94
	0.03	0.02	0.0	46,43,0	0.29	0.01	0.01	228,45,45			1.00	0.04	0.96
300	0.09	0.12	0.0	215,214,0	0.28	0.01	0.03	228,44,44	0.41	228	0.85	0.06	0.94
	0.02	0.02	0.0	45,43,0	0.28	0.01	0.01	228,45,45			1.00	0.04	0.96
301	0.09	0.15	0.0	228,225,0	0.32	8.92e-03	0.04	225,44,44	0.43	225	0.85	0.06	0.94
	0.03	0.02	0.0	46,43,0	0.32	4.62e-03	4.62e-03	225,45,45			1.00	0.04	0.96
302	0.10	0.16	0.0	228,225,0	0.31	0.02	0.04	225,44,44	0.43	225	0.85	0.06	0.94

	0.02	0.02	0.0	45,43,0	0.31	4.30e-03	4.30e-03	225,45,45			1.00	0.04	0.96
303	0.15	0.22	0.0	228,225,0	0.32	0.01	0.05	225,45,44	0.43	225	0.85	0.06	0.94
	0.02	0.01	0.0	46,43,0	0.32	4.62e-03	4.62e-03	225,45,45			1.00	0.04	0.96
304	0.10	0.17	0.0	228,225,0	0.31	0.02	0.05	225,45,44	0.43	225	0.85	0.06	0.94
	0.01	0.01	0.0	45,43,0	0.31	4.30e-03	4.30e-03	225,45,45			1.00	0.04	0.96
305	0.15	0.22	0.0	228,225,0	0.18	0.01	0.05	228,45,44	0.33	228	0.85	0.06	0.94
	2.25e-03	4.26e-03	0.0	231,230,0	0.18	3.48e-03	3.48e-03	228,45,45			1.00	0.04	0.96
306	0.09	0.17	0.0	228,225,0	0.21	0.02	0.05	228,45,44	0.36	228	0.85	0.06	0.94
	2.25e-03	6.92e-03	0.0	231,100,0	0.21	3.22e-03	3.22e-03	228,45,45			1.00	0.04	0.96
307	0.07	0.10	0.0	215,214,0	0.27	0.02	0.03	225,44,44	0.40	225	0.85	0.06	0.94
	0.02	0.02	0.0	225,44,0	0.27	9.27e-03	9.27e-03	225,45,45			1.00	0.04	0.96
308	0.05	0.08	0.0	215,209,0	0.24	0.02	0.03	228,44,44	0.38	228	0.85	0.06	0.94
	0.02	0.02	0.0	225,228,0	0.24	5.16e-03	5.16e-03	228,45,45			1.00	0.04	0.96
309	0.11	0.17	0.0	228,225,0	0.30	0.02	0.04	225,44,44	0.42	225	0.85	0.06	0.94
	0.03	0.02	0.0	225,228,0	0.30	5.16e-03	5.16e-03	225,45,45			1.00	0.04	0.96
310	0.11	0.17	0.0	228,225,0	0.29	0.02	0.04	225,44,44	0.41	225	0.85	0.06	0.94
	0.03	0.02	0.0	225,228,0	0.29	5.16e-03	5.16e-03	225,45,45			1.00	0.04	0.96
311	0.11	0.17	0.0	228,225,0	0.30	0.03	0.05	225,45,44	0.42	225	0.85	0.06	0.94
	0.03	0.02	0.0	225,228,0	0.30	4.63e-03	4.63e-03	225,45,45			1.00	0.04	0.96
312	0.11	0.17	0.0	228,225,0	0.29	0.03	0.05	225,45,44	0.41	225	0.85	0.06	0.94
	0.03	0.02	0.0	225,228,0	0.29	4.63e-03	4.63e-03	225,45,45			1.00	0.04	0.96
313	0.04	0.12	0.0	228,225,0	0.28	0.03	0.05	228,45,44	0.40	228	0.85	0.06	0.94
	0.02	0.02	0.0	225,228,0	0.28	2.81e-03	2.81e-03	228,45,45			1.00	0.04	0.96
314	0.0	0.10	0.0	0,100,0	0.28	0.03	0.05	228,45,44	0.40	228	0.0	0.0	0.0
	0.02	0.02	0.0	225,228,0	0.28	2.05e-03	2.05e-03	228,209,209			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.31	0.38	0.0	0.32	0.03	0.05	0.43

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
12	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.86	-15.9	193	0.85	-15.7	193	0.68	-8563.4	-3.461e+05	225

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
315	0.13	0.34	0.0	225,228,0	0.08	1.88e-03	0.04	225,209,228	0.22	225	0.85	0.06	0.94
	2.34e-04	9.95e-05	0.0	72,89,0	0.08	3.79e-04	3.79e-04	225,225,225			1.00	0.04	0.96
316	0.13	0.34	0.0	225,228,0	0.08	1.88e-03	0.04	225,209,228	0.22	225	0.85	0.06	0.94
	2.34e-04	9.95e-05	0.0	72,89,0	0.08	3.79e-04	3.79e-04	225,225,225			1.00	0.04	0.96
317	0.13	0.34	0.0	225,228,0	0.08	1.88e-03	0.04	225,209,228	0.22	225	0.85	0.06	0.94
	2.34e-04	2.28e-04	0.0	72,68,0	0.08	3.79e-04	3.79e-04	225,225,225			1.00	0.04	0.96
318	0.13	0.34	0.0	225,228,0	0.08	1.88e-03	0.04	225,209,228	0.22	225	0.85	0.06	0.94
	2.34e-04	2.28e-04	0.0	72,68,0	0.08	3.79e-04	3.79e-04	225,225,225			1.00	0.04	0.96
319	0.06	0.28	0.0	225,228,0	0.08	1.59e-03	0.04	225,209,228	0.22	225	0.85	0.06	0.94
	6.09e-05	9.00e-05	0.0	70,99,0	0.08	8.99e-05	8.99e-05	225,228,228			1.00	0.04	0.96
320	0.06	0.28	0.0	225,228,0	0.08	1.59e-03	0.04	225,209,228	0.22	225	0.85	0.06	0.94
	6.09e-05	9.63e-05	0.0	70,100,0	0.08	8.99e-05	8.99e-05	225,228,228			1.00	0.04	0.96
321	0.0	0.25	0.0	0,100,0	0.08	1.18e-03	0.03	225,209,100	0.22	225	0.0	0.0	0.0
	0.0	2.98e-04	0.0	0,100,0	0.08	1.55e-05	1.55e-05	225,225,225			0.0	0.0	0.0
322	0.0	0.26	0.0	0,100,0	0.08	1.18e-03	0.03	225,209,100	0.22	225	0.0	0.0	0.0
	0.0	2.98e-04	0.0	0,100,0	0.08	1.55e-05	1.55e-05	225,228,228			0.0	0.0	0.0
323	0.11	0.34	0.0	228,225,0	0.08	1.42e-03	0.04	225,211,225	0.22	225	0.85	0.06	0.94
	7.34e-05	2.28e-04	0.0	93,68,0	0.08	3.79e-04	3.79e-04	225,225,225			1.00	0.04	0.96
324	0.11	0.34	0.0	228,225,0	0.08	1.42e-03	0.04	225,211,225	0.22	225	0.85	0.06	0.94
	7.34e-05	2.28e-04	0.0	93,68,0	0.08	3.79e-04	3.79e-04	225,225,225			1.00	0.04	0.96
325	0.05	0.27	0.0	228,225,0	0.08	1.17e-03	0.03	225,211,225	0.22	225	0.85	0.06	0.94
	1.50e-05	9.63e-05	0.0	93,100,0	0.08	8.99e-05	8.99e-05	225,228,228			1.00	0.04	0.96
326	0.0	0.26	0.0	0,100,0	0.08	8.29e-04	0.03	225,219,100	0.22	225	0.0	0.0	0.0
	0.0	2.98e-04	0.0	0,100,0	0.08	1.55e-05	1.55e-05	225,228,228			0.0	0.0	0.0
327	0.0	0.25	0.0	0,100,0	0.08	6.14e-04	0.03	225,219,100	0.22	225	0.0	0.0	0.0
	0.0	1.25e-03	0.0	0,100,0	0.08	1.76e-05	1.76e-05	225,228,228			0.0	0.0	0.0
328	0.0	0.26	0.0	0,100,0	0.08	7.87e-04	0.03	225,209,100	0.22	225	0.0	0.0	0.0
	0.0	1.25e-03	0.0	0,100,0	0.08	1.96e-05	1.96e-05	225,209,209			0.0	0.0	0.0
329	0.0	0.26	0.0	0,100,0	0.09	1.38e-03	0.03	225,211,100	0.23	225	0.0	0.0	0.0
	0.0	5.49e-03	0.0	0,100,0	0.09	8.99e-05	8.99e-05	225,228,228			0.0	0.0	0.0
330	0.0	0.26	0.0	0,100,0	0.09	1.62e-03	0.03	225,209,100	0.23	225	0.0	0.0	0.0
	0.0	5.49e-03	0.0	0,100,0	0.09	9.07e-05	9.07e-05	225,228,228			0.0	0.0	0.0
331	0.0	0.26	0.0	0,100,0	0.08	7.87e-04	0.03	228,209,100	0.22	228	0.0	0.0	0.0

	0.0	1.24e-03	0.0	0,100,0	0.08	1.96e-05	1.96e-05228,209,209			0.0	0.0	0.0
332	0.0	0.26	0.0	0,100,0	0.08	1.62e-03	0.03228,209,100	0.22	228	0.0	0.0	0.0
	0.0	5.48e-03	0.0	0,100,0	0.08	9.07e-05	9.07e-05228,228,228			0.0	0.0	0.0
333	0.02	0.26	0.0	228,100,0	0.09	2.18e-03	0.03225,216,100	0.23	225	0.85	0.06	0.94
	0.0	0.02	0.0	0,100,0	0.09	4.11e-04	4.11e-04225,225,225			0.0	0.0	0.0
334	0.03	0.26	0.0	225,100,0	0.09	2.69e-03	0.03225,209,228	0.23	225	0.85	0.06	0.94
	0.0	0.02	0.0	0,100,0	0.09	4.43e-04	4.43e-04225,226,226			0.0	0.0	0.0
335	0.02	0.26	0.0	228,100,0	0.09	2.18e-03	0.03225,216,100	0.23	225	0.85	0.06	0.94
	0.0	0.02	0.0	0,100,0	0.09	4.11e-04	4.11e-04225,225,225			0.0	0.0	0.0
336	0.03	0.26	0.0	225,100,0	0.09	2.69e-03	0.03225,209,228	0.23	225	0.85	0.06	0.94
	0.0	0.02	0.0	0,100,0	0.09	4.43e-04	4.43e-04225,226,226			0.0	0.0	0.0
337	0.03	0.26	0.0	225,100,0	0.09	2.69e-03	0.03228,209,228	0.23	228	0.85	0.06	0.94
	0.0	0.02	0.0	0,100,0	0.09	4.43e-04	4.43e-04228,226,226			0.0	0.0	0.0
338	0.03	0.26	0.0	225,100,0	0.09	2.69e-03	0.03228,209,228	0.23	228	0.85	0.06	0.94
	0.0	0.02	0.0	0,100,0	0.09	4.43e-04	4.43e-04228,226,226			0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.13	0.34	0.0	0.09	2.69e-03	0.04	0.23

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
13	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.82	-239.0	193	0.80	-233.6	193	0.97	-1.630e+04	1.479e+07	228

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
339	0.33	0.38	0.0	225,228,0	0.26	0.03	0.05225,45,228		0.39	225	0.85	0.06	0.94
	4.77e-03	3.21e-03	0.0	225,228,0	0.26	1.53e-03	1.53e-03 225,45,45				1.00	0.04	0.96
340	0.33	0.38	0.0	225,228,0	0.26	0.03	0.05225,45,228		0.39	225	0.85	0.06	0.94
	6.66e-03	4.76e-03	0.0	225,228,0	0.26	1.53e-03	1.53e-03 225,45,45				1.00	0.04	0.96
341	0.33	0.38	0.0	225,228,0	0.33	0.03	0.05225,45,228		0.44	225	0.85	0.06	0.94
	0.01	7.91e-03	0.0	225,228,0	0.33	2.24e-03	2.24e-03 225,45,45				1.00	0.04	0.96
342	0.33	0.38	0.0	225,228,0	0.31	0.03	0.05225,45,228		0.43	225	0.85	0.06	0.94
	7.26e-03	5.09e-03	0.0	225,228,0	0.31	2.03e-03	2.03e-03 225,45,45				1.00	0.04	0.96
343	0.28	0.32	0.0	225,228,0	0.22	0.02	0.04225,45,228		0.36	225	0.85	0.06	0.94
	6.66e-03	4.76e-03	0.0	225,228,0	0.22	1.72e-03	1.72e-03 225,45,45				1.00	0.04	0.96
344	0.28	0.32	0.0	225,228,0	0.34	0.02	0.04225,45,228		0.45	225	0.85	0.06	0.94
	0.01	7.91e-03	0.0	225,228,0	0.34	2.83e-03	2.83e-03 225,45,45				1.00	0.04	0.96
345	0.22	0.27	0.0	225,228,0	0.19	8.32e-03	0.04 225,45,44		0.34	225	0.85	0.06	0.94
	2.31e-03	2.56e-03	0.0	225,44,0	0.19	1.86e-03	1.86e-03 225,45,45				1.00	0.04	0.96
346	0.22	0.27	0.0	225,228,0	0.34	8.32e-03	0.04 225,45,44		0.45	225	0.85	0.06	0.94
	6.63e-03	6.92e-03	0.0	46,43,0	0.34	3.04e-03	3.04e-03 225,45,45				1.00	0.04	0.96
347	0.11	0.16	0.0	225,228,0	0.33	0.02	0.04 225,44,44		0.44	225	0.85	0.06	0.94
	0.01	7.91e-03	0.0	225,228,0	0.33	2.24e-03	2.24e-03 225,45,45				1.00	0.04	0.96
348	0.10	0.15	0.0	225,228,0	0.31	0.02	0.03 225,44,44		0.43	225	0.85	0.06	0.94
	7.26e-03	5.09e-03	0.0	225,228,0	0.31	2.03e-03	2.03e-03 225,45,45				1.00	0.04	0.96
349	0.12	0.16	0.0	225,228,0	0.34	0.02	0.04 225,44,44		0.45	225	0.85	0.06	0.94
	0.01	0.01	0.0	46,43,0	0.34	2.83e-03	2.83e-03 225,45,45				1.00	0.04	0.96
350	0.13	0.17	0.0	225,228,0	0.34	7.16e-03	0.03 225,44,44		0.45	225	0.85	0.06	0.94
	0.02	0.01	0.0	46,43,0	0.34	3.04e-03	3.04e-03 225,45,45				1.00	0.04	0.96
351	0.06	0.11	0.0	231,230,0	0.33	0.02	0.03 225,44,44		0.44	225	0.85	0.06	0.94
	0.01	7.44e-03	0.0	46,43,0	0.33	2.66e-03	2.66e-03 225,45,45				1.00	0.04	0.96
352	0.06	0.11	0.0	231,230,0	0.31	0.02	0.03 225,44,44		0.43	225	0.85	0.06	0.94
	4.43e-03	3.05e-03	0.0	225,228,0	0.31	1.76e-03	1.76e-03 225,45,45				1.00	0.04	0.96
353	0.06	0.11	0.0	231,230,0	0.34	0.01	0.03 225,44,44		0.45	225	0.85	0.06	0.94
	0.01	0.01	0.0	46,43,0	0.34	4.19e-03	4.19e-03 225,45,45				1.00	0.04	0.96
354	0.06	0.11	0.0	231,230,0	0.34	5.83e-03	0.03 225,44,44		0.45	225	0.85	0.06	0.94
	0.02	0.01	0.0	46,43,0	0.34	4.70e-03	4.70e-03 225,45,45				1.00	0.04	0.96
355	9.23e-03	0.07	0.0	231,28,0	0.33	0.02	0.03 225,44,44		0.44	225	0.85	0.06	0.94
	9.45e-03	6.90e-03	0.0	46,43,0	0.33	9.69e-03	9.69e-03 225,45,45				1.00	0.04	0.96
356	8.36e-03	0.07	0.0	231,230,0	0.31	0.02	0.03 225,44,44		0.43	225	0.85	0.06	0.94
	3.75e-03	2.61e-03	0.0	42,47,0	0.31	1.78e-03	1.78e-03 225,45,45				1.00	0.04	0.96
357	0.01	0.07	0.0	45,44,0	0.34	9.33e-03	0.02 225,44,44		0.45	225	0.85	0.06	0.94
	0.01	9.79e-03	0.0	46,43,0	0.34	0.01	0.01 225,45,45				1.00	0.04	0.96
358	0.02	0.08	0.0	45,44,0	0.35	4.09e-03	0.02 225,44,44		0.45	225	0.85	0.06	0.94
	0.01	0.01	0.0	46,43,0	0.35	0.02	0.02 225,45,45				1.00	0.04	0.96
359	0.09	0.14	0.0	220,217,0	0.33	0.01	0.02 225,44,44		0.44	225	0.85	0.06	0.94
	0.05	0.03	0.0	46,45,0	0.33	0.02	0.02 225,45,45				1.00	0.04	0.96
360	0.09	0.14	0.0	220,217,0	0.31	0.01	0.02 225,44,44		0.43	225	0.85	0.06	0.94

	0.02	0.01	0.0	42,45,0	0.31	7.50e-03	7.50e-03	225,45,45			1.00	0.04	0.96
361	0.08	0.12	0.0	220,217,0	0.34	5.20e-03	0.02	225,44,44	0.45	225	0.85	0.06	0.94
	0.07	0.05	0.0	46,45,0	0.34	0.03	0.03	225,45,45			1.00	0.04	0.96
362	0.07	0.11	0.0	220,217,0	0.35	2.04e-03	0.01	225,44,44	0.45	225	0.85	0.06	0.94
	0.07	0.05	0.0	45,45,0	0.35	0.03	0.03	225,45,45			1.00	0.04	0.96
363	0.12	0.17	0.0	220,217,0	0.32	3.21e-03	0.02225	44,209	0.44	225	0.85	0.06	0.94
	0.06	0.04	0.0	42,45,0	0.32	0.02	0.02	225,45,45			1.00	0.04	0.96
364	0.12	0.17	0.0	220,217,0	0.31	3.21e-03	0.02225	44,209	0.43	225	0.85	0.06	0.94
	0.02	0.02	0.0	44,45,0	0.31	8.91e-03	8.91e-03	225,45,45			1.00	0.04	0.96
365	0.11	0.15	0.0	220,217,0	0.33	1.01e-03	0.02225	44,217	0.44	225	0.85	0.06	0.94
	0.08	0.06	0.0	46,45,0	0.33	0.03	0.03	225,45,45			1.00	0.04	0.96
366	0.09	0.13	0.0	220,217,0	0.33	1.01e-03	0.02225	219,217	0.44	225	0.85	0.06	0.94
	0.09	0.07	0.0	46,45,0	0.33	0.03	0.03	225,45,45			1.00	0.04	0.96
367	0.17	0.22	0.0	225,228,0	0.21	0.01	0.04	225,45,44	0.35	225	0.85	0.06	0.94
	1.68e-03	4.39e-03	0.0	228,225,0	0.21	1.86e-03	1.86e-03	225,45,45			1.00	0.04	0.96
368	0.17	0.22	0.0	225,228,0	0.34	0.01	0.04	225,45,44	0.45	225	0.85	0.06	0.94
	6.63e-03	7.73e-03	0.0	46,44,0	0.34	3.04e-03	3.04e-03	225,45,45			1.00	0.04	0.96
369	0.12	0.18	0.0	225,228,0	0.24	0.02	0.04	225,45,44	0.38	225	0.85	0.06	0.94
	1.68e-03	7.38e-03	0.0	228,100,0	0.24	1.76e-03	1.76e-03	225,45,45			1.00	0.04	0.96
370	0.14	0.18	0.0	225,228,0	0.33	0.02	0.04	225,45,44	0.44	225	0.85	0.06	0.94
	8.70e-03	0.01	0.0	228,225,0	0.33	2.76e-03	2.76e-03	225,45,45			1.00	0.04	0.96
371	0.13	0.17	0.0	225,228,0	0.34	8.70e-03	0.03	225,44,44	0.45	225	0.85	0.06	0.94
	0.02	0.01	0.0	46,43,0	0.34	3.04e-03	3.04e-03	225,45,45			1.00	0.04	0.96
372	0.14	0.18	0.0	225,228,0	0.33	0.02	0.04	225,44,44	0.44	225	0.85	0.06	0.94
	0.01	0.01	0.0	45,43,0	0.33	2.76e-03	2.76e-03	225,45,45			1.00	0.04	0.96
373	0.06	0.11	0.0	231,230,0	0.34	7.14e-03	0.03	225,44,44	0.45	225	0.85	0.06	0.94
	0.02	0.01	0.0	46,43,0	0.34	4.70e-03	4.70e-03	225,45,45			1.00	0.04	0.96
374	0.05	0.10	0.0	231,230,0	0.34	0.01	0.03	225,44,44	0.45	225	0.85	0.06	0.94
	0.01	0.01	0.0	45,43,0	0.34	4.10e-03	4.10e-03	225,45,45			1.00	0.04	0.96
375	0.02	0.08	0.0	45,44,0	0.35	5.11e-03	0.02	225,44,44	0.45	225	0.85	0.06	0.94
	0.01	0.01	0.0	46,43,0	0.35	0.02	0.02	225,45,45			1.00	0.04	0.96
376	0.01	0.07	0.0	45,44,0	0.35	0.01	0.02	225,44,44	0.45	225	0.85	0.06	0.94
	0.01	0.01	0.0	45,43,0	0.35	0.01	0.01	225,45,45			1.00	0.04	0.96
377	0.06	0.10	0.0	220,217,0	0.35	2.65e-03	0.01	225,43,44	0.45	225	0.85	0.06	0.94
	0.07	0.05	0.0	45,45,0	0.35	0.03	0.03	225,45,45			1.00	0.04	0.96
378	0.05	0.09	0.0	220,217,0	0.35	5.82e-03	0.02	225,44,44	0.45	225	0.85	0.06	0.94
	0.06	0.05	0.0	45,43,0	0.35	0.03	0.03	225,45,45			1.00	0.04	0.96
379	0.08	0.12	0.0	212,209,0	0.34	1.01e-03	0.01227	219,217	0.45	227	0.85	0.06	0.94
	0.09	0.07	0.0	46,45,0	0.34	0.03	0.03	227,45,45			1.00	0.04	0.96
380	0.07	0.11	0.0	212,225,0	0.34	1.31e-03	0.01227	47,225	0.45	227	0.85	0.06	0.94
	0.08	0.06	0.0	45,45,0	0.34	0.03	0.03	227,45,45			1.00	0.04	0.96
381	0.07	0.13	0.0	225,228,0	0.30	0.03	0.04	225,45,44	0.42	225	0.85	0.06	0.94
	0.01	0.02	0.0	228,225,0	0.30	2.19e-03	2.19e-03	225,44,44			1.00	0.04	0.96
382	0.15	0.19	0.0	225,228,0	0.31	0.03	0.04	225,45,44	0.43	225	0.85	0.06	0.94
	0.02	0.02	0.0	230,225,0	0.31	2.19e-03	2.19e-03	225,44,44			1.00	0.04	0.96
383	0.02	0.09	0.0	225,228,0	0.30	0.03	0.04	225,45,44	0.42	225	0.85	0.06	0.94
	0.01	0.02	0.0	228,225,0	0.30	2.19e-03	2.19e-03	225,44,44			1.00	0.04	0.96
384	0.15	0.19	0.0	225,228,0	0.30	0.03	0.04	225,45,44	0.42	225	0.85	0.06	0.94
	0.02	0.02	0.0	230,225,0	0.30	2.19e-03	2.19e-03	225,44,44			1.00	0.04	0.96
385	0.15	0.19	0.0	225,228,0	0.31	0.02	0.04	225,44,44	0.43	225	0.85	0.06	0.94
	0.02	0.02	0.0	230,231,0	0.31	2.68e-03	2.68e-03	225,45,45			1.00	0.04	0.96
386	0.15	0.19	0.0	225,228,0	0.29	0.02	0.03	228,44,44	0.42	228	0.85	0.06	0.94
	0.02	0.02	0.0	230,231,0	0.29	2.68e-03	2.68e-03	228,45,45			1.00	0.04	0.96
387	0.05	0.10	0.0	231,230,0	0.33	0.02	0.03	225,44,44	0.44	225	0.85	0.06	0.94
	0.02	0.01	0.0	226,227,0	0.33	2.68e-03	2.68e-03	225,45,45			1.00	0.04	0.96
388	0.05	0.10	0.0	231,230,0	0.32	0.02	0.03	225,44,44	0.43	225	0.85	0.06	0.94
	0.02	0.01	0.0	226,227,0	0.32	2.68e-03	2.68e-03	225,45,45			1.00	0.04	0.96
389	6.09e-03	0.07	0.0	231,28,0	0.34	0.02	0.02	225,44,44	0.45	225	0.85	0.06	0.94
	0.01	0.01	0.0	226,227,0	0.34	9.28e-03	9.28e-03	225,45,45			1.00	0.04	0.96
390	4.34e-03	0.06	0.0	231,100,0	0.32	0.02	0.02	225,44,44	0.44	225	0.85	0.06	0.94
	0.01	0.01	0.0	226,227,0	0.32	1.99e-03	1.99e-03	225,45,45			1.00	0.04	0.96
391	0.04	0.08	0.0	220,217,0	0.34	0.01	0.02	225,44,44	0.45	225	0.85	0.06	0.94
	0.05	0.03	0.0	45,43,0	0.34	0.02	0.02	225,45,45			1.00	0.04	0.96
392	0.03	0.07	0.0	220,217,0	0.32	0.01	0.02	225,44,44	0.44	225	0.85	0.06	0.94
	0.02	0.02	0.0	45,44,0	0.32	7.14e-03	7.14e-03	225,45,45			1.00	0.04	0.96
393	0.06	0.11	0.0	228,225,0	0.33	3.58e-03	0.01227	44,225	0.44	227	0.85	0.06	0.94
	0.06	0.04	0.0	45,45,0	0.33	0.02	0.02	227,45,45			1.00	0.04	0.96
394	0.06	0.10	0.0	228,225,0	0.32	3.58e-03	0.01227	44,225	0.43	227	0.85	0.06	0.94
	0.03	0.02	0.0	45,43,0	0.32	9.13e-03	9.13e-03	227,45,45			1.00	0.04	0.96
395	0.12	0.17	0.0	220,217,0	0.34	6.60e-03	0.02225	44,209	0.44	225	0.85	0.06	0.94
	0.06	0.04	0.0	42,45,0	0.33	0.02	0.02	225,45,45			1.00	0.04	0.96
396	0.12	0.17	0.0	220,217,0	0.31	6.60e-03	0.02225	44,209	0.43	225	0.85	0.06	0.94
	0.02	0.02	0.0	44,45,0	0.31	8.91e-03	8.91e-03	225,45,45			1.00	0.04	0.96
397	0.12	0.15	0.0	228,217,0	0.34	2.80e-03	0.02225	44,225	0.45	225	0.85	0.06	0.94
	0.08	0.06	0.0	46,45,0	0.34	0.03	0.03	225,45,45			1.00	0.04	0.96
398	0.13	0.15	0.0	228,225,0	0.34	1.01e-03	0.02225	219,225	0.45	225	0.85	0.06	0.94
	0.09	0.07	0.0	46,45,0	0.34	0.03	0.03	225,45,45			1.00	0.04	0.96

399	0.14	0.15	0.0	228,225,0	0.34	1.27e-03	0.02225,45,225	0.45	225	0.85	0.06	0.94
	0.09	0.07	0.0	46,45,0	0.34	0.03	0.03 225,45,45			1.00	0.04	0.96
400	0.14	0.16	0.0	228,225,0	0.33	3.17e-03	0.02225,44,225	0.44	225	0.85	0.06	0.94
	0.08	0.06	0.0	45,45,0	0.33	0.03	0.03 225,45,45			1.00	0.04	0.96
401	0.15	0.17	0.0	228,225,0	0.32	6.94e-03	0.02225,44,225	0.43	225	0.85	0.06	0.94
	0.06	0.04	0.0	45,45,0	0.32	0.02	0.02 225,45,45			1.00	0.04	0.96
402	0.15	0.17	0.0	228,225,0	0.29	6.94e-03	0.02225,44,225	0.41	225	0.85	0.06	0.94
	0.03	0.02	0.0	45,43,0	0.29	9.13e-03	9.13e-03 225,45,45			1.00	0.04	0.96
2106	0.34	0.34	0.0	228,225,0	0.26	0.01	0.04225,44,225	0.39	225	0.85	0.06	0.94
	4.43e-03	3.35e-03	0.0	228,225,0	0.26	7.60e-04	7.60e-04 225,45,45			1.00	0.04	0.96
2107	0.34	0.34	0.0	228,225,0	0.34	0.01	0.04225,44,225	0.44	225	0.85	0.06	0.94
	0.03	0.02	0.0	46,47,0	0.33	0.01	0.01 225,45,45			1.00	0.04	0.96
2108	0.34	0.34	0.0	228,225,0	0.31	0.01	0.04225,44,225	0.43	225	0.85	0.06	0.94
	9.96e-03	7.70e-03	0.0	46,43,0	0.31	3.44e-03	3.44e-03 225,45,45			1.00	0.04	0.96
2109	0.29	0.29	0.0	228,225,0	0.34	7.11e-03	0.04225,44,225	0.45	225	0.85	0.06	0.94
	0.04	0.03	0.0	46,45,0	0.34	0.02	0.02 225,45,45			1.00	0.04	0.96
2110	0.24	0.24	0.0	228,225,0	0.34	2.87e-03	0.03225,44,225	0.45	225	0.85	0.06	0.94
	0.04	0.03	0.0	46,45,0	0.34	0.02	0.02 225,45,45			1.00	0.04	0.96
2111	0.34	0.34	0.0	228,225,0	0.26	0.01	0.04225,44,225	0.39	225	0.85	0.06	0.94
	6.43e-03	4.72e-03	0.0	228,43,0	0.26	2.75e-03	2.75e-03 225,45,45			1.00	0.04	0.96
2112	0.29	0.29	0.0	228,225,0	0.22	7.11e-03	0.04225,44,225	0.36	225	0.85	0.06	0.94
	7.49e-03	5.64e-03	0.0	46,43,0	0.22	4.58e-03	4.58e-03 225,45,45			1.00	0.04	0.96
2113	0.24	0.24	0.0	228,225,0	0.20	2.87e-03	0.03225,44,225	0.34	225	0.85	0.06	0.94
	7.99e-03	5.97e-03	0.0	46,43,0	0.20	5.15e-03	5.15e-03 225,45,45			1.00	0.04	0.96
2114	0.19	0.19	0.0	228,225,0	0.34	3.72e-03	0.02225,44,225	0.45	225	0.85	0.06	0.94
	0.04	0.03	0.0	46,45,0	0.34	0.02	0.02 225,45,45			1.00	0.04	0.96
2115	0.14	0.16	0.0	228,225,0	0.33	7.93e-03	0.02225,44,225	0.44	225	0.85	0.06	0.94
	0.04	0.03	0.0	45,43,0	0.33	0.02	0.02 225,45,45			1.00	0.04	0.96
2116	0.19	0.19	0.0	228,225,0	0.20	3.72e-03	0.02225,44,225	0.34	225	0.85	0.06	0.94
	7.99e-03	5.97e-03	0.0	46,43,0	0.20	5.15e-03	5.15e-03 225,45,45			1.00	0.04	0.96
2117	0.14	0.15	0.0	228,225,0	0.23	7.93e-03	0.02 225,44,44	0.36	225	0.85	0.06	0.94
	7.19e-03	5.67e-03	0.0	45,43,0	0.23	4.44e-03	4.44e-03 225,45,45			1.00	0.04	0.96
2118	0.15	0.17	0.0	228,225,0	0.32	0.01	0.02225,44,225	0.43	225	0.85	0.06	0.94
	0.02	0.02	0.0	45,44,0	0.32	0.01	0.01 225,45,45			1.00	0.04	0.96
2119	0.15	0.17	0.0	228,225,0	0.29	0.01	0.02225,44,225	0.41	225	0.85	0.06	0.94
	0.02	0.01	0.0	225,228,0	0.29	3.17e-03	3.17e-03 225,45,45			1.00	0.04	0.96
2120	0.09	0.10	0.0	228,225,0	0.27	0.01	0.02 225,44,44	0.40	225	0.85	0.06	0.94
	0.01	9.52e-03	0.0	225,228,0	0.27	2.43e-03	2.43e-03 225,45,45			1.00	0.04	0.96
2121	0.04	0.06	0.0	228,225,0	0.27	0.01	0.02 225,44,44	0.40	225	0.85	0.06	0.94
	0.01	9.52e-03	0.0	225,228,0	0.27	5.29e-04	5.29e-04225,209,209			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.34	0.38	0.0	0.35	0.03	0.05	0.45

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
14	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	NV

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
NV	0.45	22.2	177	1.03	-50.9	180	0.97	3156.3	-2.178e+06	209

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
194	0.16	0.14	0.0	209,212,0	0.01	0.02	0.03	209,67,69	0.08	209	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.01	1.19e-03	1.19e-03	209,68,68			1.00	0.04	0.96
196	0.16	0.14	0.0	209,212,0	0.01	0.02	0.03	209,69,69	0.09	209	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.01	1.19e-03	1.19e-03	209,68,68			1.00	0.04	0.96
198	0.06	0.04	0.0	209,212,0	0.03	0.02	0.02	209,69,69	0.13	209	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.03	6.70e-04	6.70e-04	209,69,69			1.00	0.04	0.96
200	0.08	0.06	0.0	212,209,0	0.03	0.02	0.02	209,69,69	0.13	209	0.87	0.06	0.94
	0.05	0.03	0.0	212,209,0	0.03	3.50e-03	3.50e-03	209,220,220			1.00	0.04	0.96
202	0.13	0.10	0.0	212,209,0	1.48e-03	0.02	0.02	209,69,69	0.03	209	0.87	0.06	0.94
	0.05	0.03	0.0	212,209,0	1.47e-03	4.78e-03	4.78e-03	209,215,215			1.00	0.04	0.96
216	0.13	0.10	0.0	212,209,0	8.88e-05	0.02	0.02	68,68,68	6.94e-03	100	0.87	0.06	0.94
	0.03	0.02	0.0	214,215,0	8.16e-05	4.78e-03	4.78e-03	100,215,215			1.00	0.04	0.96
403	0.06	0.04	0.0	68,212,0	0.06	0.02	0.02	209,69,69	0.20	209	0.87	0.06	0.94
	0.04	0.02	0.0	212,209,0	0.06	8.59e-04	8.59e-04	209,68,68			1.00	0.04	0.96
404	0.07	0.04	0.0	68,69,0	0.25	0.02	0.02	209,69,69	0.38	209	0.87	0.06	0.94
	0.04	0.02	0.0	212,209,0	0.25	1.28e-03	1.28e-03	209,68,68			1.00	0.04	0.96
405	0.08	0.06	0.0	212,209,0	0.06	0.02	0.02	209,69,69	0.20	209	0.87	0.06	0.94
	0.11	0.07	0.0	212,209,0	0.06	3.50e-03	3.50e-03	209,220,220			1.00	0.04	0.96

406	0.08	0.05	0.0	68,209,0	0.25	0.02	0.02	209,69,69	0.38	209	0.87	0.06	0.94
	0.11	0.07	0.0	212,209,0	0.25	9.84e-04	9.84e-04	209,214,214			1.00	0.04	0.96
407	0.08	0.05	0.0	68,69,0	0.29	7.51e-03	0.01	209,69,93	0.41	209	0.87	0.06	0.94
	0.04	0.02	0.0	209,212,0	0.29	1.28e-03	1.28e-03	209,68,68			1.00	0.04	0.96
408	0.09	0.05	0.0	68,69,0	0.29	7.26e-03	7.50e-03	209,68,233	0.41	209	0.87	0.06	0.94
	0.07	0.04	0.0	212,209,0	0.29	7.64e-04	7.64e-04	209,236,236			1.00	0.04	0.96
409	0.08	0.05	0.0	68,69,0	0.29	8.81e-03	0.01	209,69,93	0.41	209	0.87	0.06	0.94
	8.85e-03	5.62e-03	0.0	209,212,0	0.29	8.10e-04	8.10e-04	209,236,236			1.00	0.04	0.96
410	0.09	0.05	0.0	68,69,0	0.29	8.60e-03	8.60e-03	209,69,69	0.41	209	0.87	0.06	0.94
	0.01	6.32e-03	0.0	209,212,0	0.29	7.64e-04	7.64e-04	209,236,236			1.00	0.04	0.96
431	0.07	0.04	0.0	68,69,0	0.29	0.02	0.02	209,69,69	0.41	209	0.87	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.29	5.03e-04	5.03e-04	209,227,227			1.00	0.04	0.96
432	0.08	0.04	0.0	68,69,0	0.29	0.02	0.02	209,68,68	0.41	209	0.87	0.06	0.94
	0.07	0.04	0.0	209,212,0	0.29	5.18e-04	5.18e-04	209,68,68			1.00	0.04	0.96
433	0.06	0.03	0.0	68,69,0	0.27	0.02	0.02	209,68,68	0.40	209	0.87	0.06	0.94
	0.04	0.02	0.0	214,215,0	0.27	1.07e-03	1.07e-03	209,231,231			1.00	0.04	0.96
434	0.07	0.03	0.0	68,69,0	0.27	0.02	0.02	209,69,69	0.40	209	0.87	0.06	0.94
	0.09	0.05	0.0	209,212,0	0.27	3.83e-03	3.83e-03	209,227,227			1.00	0.04	0.96
445	0.03	0.01	0.0	68,212,0	0.11	0.02	0.02	209,68,68	0.26	209	0.87	0.06	0.94
	0.04	0.02	0.0	214,215,0	0.11	1.07e-03	1.07e-03	209,231,231			1.00	0.04	0.96
446	0.05	0.02	0.0	212,209,0	0.11	0.02	0.02	209,69,69	0.26	209	0.87	0.06	0.94
	0.09	0.05	0.0	209,212,0	0.11	3.83e-03	3.83e-03	209,227,227			1.00	0.04	0.96
1407	0.19	0.14	0.0	212,209,0	0.17	0.02	0.02	209,68,209	0.32	209	0.87	0.06	0.94
	0.16	0.10	0.0	212,209,0	0.17	2.53e-03	2.53e-03	209,68,68			1.00	0.04	0.96
1408	0.19	0.14	0.0	212,209,0	0.19	9.04e-03	0.02	209,68,209	0.34	209	0.87	0.06	0.94
	0.12	0.08	0.0	212,209,0	0.19	2.20e-03	2.20e-03	209,235,235			1.00	0.04	0.96
1409	0.14	0.09	0.0	212,209,0	0.19	8.46e-03	0.01	209,68,209	0.34	209	0.87	0.06	0.94
	0.02	0.01	0.0	209,212,0	0.19	7.64e-04	7.64e-04	209,236,236			1.00	0.04	0.96
1410	0.17	0.15	0.0	209,212,0	0.04	0.02	0.03	209,69,65	0.15	209	0.87	0.06	0.94
	0.08	0.05	0.0	209,212,0	0.04	2.26e-03	2.26e-03	209,234,234			1.00	0.04	0.96
1411	0.18	0.16	0.0	209,212,0	0.22	0.02	0.03	209,69,65	0.36	209	0.87	0.06	0.94
	0.09	0.06	0.0	209,212,0	0.22	2.26e-03	2.26e-03	209,234,234			1.00	0.04	0.96
1412	0.18	0.16	0.0	209,212,0	0.26	7.80e-03	0.03	209,69,65	0.39	209	0.87	0.06	0.94
	0.09	0.06	0.0	209,212,0	0.26	2.10e-03	2.10e-03	209,234,234			1.00	0.04	0.96
1419	0.09	0.05	0.0	68,209,0	0.19	0.02	0.02	209,69,69	0.34	209	0.87	0.06	0.94
	0.07	0.04	0.0	209,212,0	0.19	5.18e-04	5.18e-04	209,68,68			1.00	0.04	0.96
1420	0.08	0.03	0.0	68,69,0	0.19	0.02	0.02	209,67,67	0.34	209	0.87	0.06	0.94
	0.09	0.05	0.0	209,212,0	0.19	5.35e-03	5.35e-03	209,227,227			1.00	0.04	0.96
1421	0.14	0.12	0.0	209,212,0	0.26	9.14e-03	0.03	209,68,65	0.39	209	0.87	0.06	0.94
	0.02	0.01	0.0	212,209,0	0.26	8.10e-04	8.10e-04	209,236,236			1.00	0.04	0.96
1422	0.09	0.08	0.0	209,212,0	0.26	0.02	0.03	209,68,65	0.39	209	0.87	0.06	0.94
	0.04	0.03	0.0	212,209,0	0.26	3.99e-04	3.99e-04	209,68,68			1.00	0.04	0.96
1429	0.05	0.02	0.0	212,209,0	0.03	0.02	0.02	212,67,67	0.14	212	0.87	0.06	0.94
	0.09	0.05	0.0	209,212,0	0.03	5.35e-03	5.35e-03	212,227,227			1.00	0.04	0.96
1431	0.05	0.04	0.0	209,212,0	0.24	0.03	0.03	209,68,65	0.38	209	0.87	0.06	0.94
	0.04	0.03	0.0	212,209,0	0.24	3.06e-03	3.06e-03	209,69,69			1.00	0.04	0.96
1433	0.02	0.02	0.0	68,212,0	0.09	0.03	0.03	212,68,65	0.23	212	0.87	0.06	0.94
	0.04	0.03	0.0	212,209,0	0.09	3.06e-03	3.06e-03	212,69,69			1.00	0.04	0.96
1568	0.15	0.11	0.0	212,209,0	1.55e-03	0.02	0.02	212,68,68	0.03	212	0.87	0.06	0.94
	0.16	0.10	0.0	212,209,0	1.55e-03	4.78e-03	4.78e-03	212,215,215			1.00	0.04	0.96
1571	0.19	0.14	0.0	212,209,0	0.15	0.02	0.02	212,68,209	0.30	212	0.87	0.06	0.94
	0.16	0.10	0.0	212,209,0	0.15	2.53e-03	2.53e-03	212,68,68			1.00	0.04	0.96
1573	0.19	0.14	0.0	212,209,0	0.15	9.04e-03	0.02	212,68,209	0.30	212	0.87	0.06	0.94
	0.12	0.08	0.0	212,209,0	0.15	2.20e-03	2.20e-03	212,235,235			1.00	0.04	0.96
1587	0.17	0.15	0.0	209,212,0	0.01	0.02	0.03	209,67,65	0.08	209	0.87	0.06	0.94
	0.08	0.05	0.0	209,212,0	0.01	2.26e-03	2.26e-03	209,234,234			1.00	0.04	0.96
1588	0.18	0.16	0.0	209,212,0	0.15	0.02	0.03	209,69,65	0.30	209	0.87	0.06	0.94
	0.09	0.06	0.0	209,212,0	0.15	2.26e-03	2.26e-03	209,234,234			1.00	0.04	0.96
1589	0.18	0.16	0.0	209,212,0	0.15	7.80e-03	0.03	209,69,65	0.30	209	0.87	0.06	0.94
	0.09	0.06	0.0	209,212,0	0.15	2.10e-03	2.10e-03	209,234,234			1.00	0.04	0.96
1590	0.14	0.09	0.0	212,209,0	0.10	8.24e-03	0.01	212,69,209	0.24	212	0.87	0.06	0.94
	0.02	0.01	0.0	209,212,0	0.10	4.95e-04	4.95e-04	212,237,237			1.00	0.04	0.96
1592	0.09	0.05	0.0	68,209,0	0.13	0.02	0.02	212,69,69	0.28	212	0.87	0.06	0.94
	0.02	0.01	0.0	211,210,0	0.13	3.93e-04	3.93e-04	212,235,235			1.00	0.04	0.96
1600	0.14	0.12	0.0	209,212,0	0.11	9.14e-03	0.03	209,68,65	0.26	209	0.87	0.06	0.94
	0.02	0.01	0.0	212,209,0	0.11	5.67e-04	5.67e-04	209,236,236			1.00	0.04	0.96
1601	0.09	0.08	0.0	209,212,0	0.10	0.02	0.03	209,68,65	0.25	209	0.87	0.06	0.94
	0.04	0.03	0.0	212,209,0	0.10	3.99e-04	3.99e-04	209,68,68			1.00	0.04	0.96
1602	0.08	0.02	0.0	68,69,0	0.13	0.02	0.02	212,67,67	0.28	212	0.87	0.06	0.94
	0.02	0.02	0.0	234,235,0	0.13	5.35e-03	5.35e-03	212,227,227			1.00	0.04	0.96
1604	0.05	7.42e-03	0.0	68,235,0	0.03	0.02	0.02	212,67,67	0.14	212	0.87	0.06	0.94
	0.02	0.02	0.0	234,235,0	0.03	5.35e-03	5.35e-03	212,227,227			1.00	0.04	0.96
1612	0.05	0.04	0.0	209,212,0	0.10	0.03	0.03	209,68,65	0.24	209	0.87	0.06	0.94
	0.04	0.03	0.0	212,209,0	0.10	3.06e-03	3.06e-03	209,69,69			1.00	0.04	0.96
1613	0.02	0.02	0.0	209,212,0	7.24e-03	0.03	0.03	212,68,65	0.07	212	0.87	0.06	0.94
	0.04	0.03	0.0	212,209,0	7.24e-03	3.06e-03	3.06e-03	212,69,69			1.00	0.04	0.96
2105	0.15	0.11	0.0	212,209,0	0.02	0.02	0.02	209,69,69	0.10	209	0.87	0.06	0.94

	0.16	0.10	0.0	212,209,0	0.02	4.78e-03	4.78e-03	209,215,215			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.19	0.16	0.0	0.29	0.03	0.03	0.41

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
15	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.98	-106.6	193	0.95	-103.3	193	0.94	2.065e+04	-3.093e+06	231

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
411	0.33	0.30	0.0	225,228,0	0.23	0.03	0.04	225,44,41	0.37	225	0.85	0.06	0.94
	4.96e-03	3.60e-03	0.0	231,230,0	0.23	3.07e-03	3.07e-03	225,44,44			1.00	0.04	0.96
412	0.33	0.30	0.0	225,228,0	0.23	0.03	0.04	225,44,228	0.37	225	0.85	0.06	0.94
	3.58e-03	2.57e-03	0.0	227,226,0	0.23	3.07e-03	3.07e-03	225,44,44			1.00	0.04	0.96
413	0.29	0.26	0.0	225,228,0	0.20	0.02	0.04	225,44,41	0.35	225	0.85	0.06	0.94
	4.96e-03	3.60e-03	0.0	231,230,0	0.20	3.42e-03	3.42e-03	225,44,44			1.00	0.04	0.96
414	0.24	0.21	0.0	225,228,0	0.19	0.01	0.04	225,44,41	0.33	225	0.85	0.06	0.94
	1.66e-03	1.44e-03	0.0	219,230,0	0.19	3.71e-03	3.71e-03	225,44,44			1.00	0.04	0.96
415	0.33	0.30	0.0	225,228,0	0.30	0.03	0.04	225,44,41	0.42	225	0.85	0.06	0.94
	0.01	8.49e-03	0.0	47,44,0	0.30	4.07e-03	4.07e-03	225,44,44			1.00	0.04	0.96
416	0.33	0.30	0.0	225,228,0	0.27	0.03	0.04	225,44,228	0.40	225	0.85	0.06	0.94
	4.53e-03	3.60e-03	0.0	45,230,0	0.27	4.05e-03	4.05e-03	225,44,44			1.00	0.04	0.96
417	0.29	0.26	0.0	225,228,0	0.32	0.02	0.04	225,44,41	0.43	225	0.85	0.06	0.94
	0.02	0.01	0.0	43,44,0	0.32	5.03e-03	5.03e-03	225,44,44			1.00	0.04	0.96
418	0.24	0.21	0.0	225,228,0	0.32	0.01	0.04	225,44,41	0.44	225	0.85	0.06	0.94
	0.02	0.01	0.0	43,44,0	0.32	5.36e-03	5.36e-03	225,44,44			1.00	0.04	0.96
419	0.10	0.10	0.0	231,230,0	0.30	0.02	0.03	225,45,42	0.42	225	0.85	0.06	0.94
	0.02	0.02	0.0	45,44,0	0.30	4.07e-03	4.07e-03	225,44,44			1.00	0.04	0.96
420	0.09	0.09	0.0	227,226,0	0.27	0.02	0.03	225,45,42	0.40	225	0.85	0.06	0.94
	9.02e-03	6.44e-03	0.0	45,44,0	0.27	4.05e-03	4.05e-03	225,44,44			1.00	0.04	0.96
421	0.11	0.10	0.0	231,230,0	0.32	0.02	0.03	225,45,42	0.43	225	0.85	0.06	0.94
	0.03	0.02	0.0	44,44,0	0.32	5.03e-03	5.03e-03	225,44,44			1.00	0.04	0.96
422	0.11	0.11	0.0	231,230,0	0.32	7.50e-03	0.03	225,45,42	0.44	225	0.85	0.06	0.94
	0.03	0.02	0.0	44,44,0	0.32	5.36e-03	5.36e-03	225,44,44			1.00	0.04	0.96
423	0.19	0.20	0.0	240,237,0	0.28	0.02	0.03	225,45,237	0.41	225	0.85	0.06	0.94
	0.02	0.02	0.0	45,44,0	0.28	0.01	0.01	225,44,44			1.00	0.04	0.96
424	0.19	0.20	0.0	240,237,0	0.27	0.02	0.03	225,45,237	0.40	225	0.85	0.06	0.94
	9.02e-03	6.44e-03	0.0	45,44,0	0.27	3.38e-03	3.38e-03	225,44,44			1.00	0.04	0.96
425	0.16	0.18	0.0	240,237,0	0.29	0.01	0.02	225,45,221	0.41	225	0.85	0.06	0.94
	0.03	0.02	0.0	44,44,0	0.29	0.01	0.01	225,44,44			1.00	0.04	0.96
426	0.14	0.15	0.0	240,237,0	0.29	4.66e-03	0.02	225,45,221	0.41	225	0.85	0.06	0.94
	0.03	0.02	0.0	44,44,0	0.29	0.01	0.01	225,44,44			1.00	0.04	0.96
435	0.19	0.17	0.0	225,228,0	0.20	0.01	0.04	225,44,41	0.34	225	0.85	0.06	0.94
	3.95e-03	3.15e-03	0.0	228,233,0	0.20	3.71e-03	3.71e-03	225,44,44			1.00	0.04	0.96
436	0.14	0.12	0.0	225,228,0	0.23	0.02	0.04	225,44,42	0.37	225	0.85	0.06	0.94
	4.93e-03	4.38e-03	0.0	228,225,0	0.23	3.47e-03	3.47e-03	225,44,44			1.00	0.04	0.96
437	0.19	0.17	0.0	225,228,0	0.32	0.01	0.04	225,44,41	0.44	225	0.85	0.06	0.94
	0.02	0.01	0.0	43,44,0	0.32	5.36e-03	5.36e-03	225,44,44			1.00	0.04	0.96
438	0.14	0.12	0.0	225,228,0	0.32	0.02	0.04	225,44,42	0.43	225	0.85	0.06	0.94
	0.02	0.01	0.0	47,44,0	0.32	4.95e-03	4.95e-03	225,44,44			1.00	0.04	0.96
439	0.12	0.11	0.0	231,230,0	0.32	9.13e-03	0.03	225,45,42	0.44	225	0.85	0.06	0.94
	0.03	0.02	0.0	44,44,0	0.32	5.36e-03	5.36e-03	225,44,44			1.00	0.04	0.96
440	0.13	0.12	0.0	231,230,0	0.32	0.02	0.03	225,45,42	0.43	225	0.85	0.06	0.94
	0.03	0.02	0.0	43,44,0	0.32	4.95e-03	4.95e-03	225,44,44			1.00	0.04	0.96
441	0.12	0.13	0.0	224,221,0	0.29	5.74e-03	0.02	225,45,221	0.41	225	0.85	0.06	0.94
	0.03	0.02	0.0	44,44,0	0.29	0.01	0.01	225,44,44			1.00	0.04	0.96
442	0.10	0.12	0.0	224,221,0	0.28	0.01	0.02	225,45,42	0.41	225	0.85	0.06	0.94
	0.03	0.02	0.0	43,44,0	0.28	0.01	0.01	225,44,44			1.00	0.04	0.96
449	0.09	0.08	0.0	225,228,0	0.28	0.03	0.04	225,44,42	0.41	225	0.85	0.06	0.94
	0.02	0.01	0.0	228,225,0	0.28	3.08e-03	3.08e-03	225,44,44			1.00	0.04	0.96
450	0.04	0.04	0.0	231,230,0	0.28	0.03	0.04	225,44,42	0.41	225	0.85	0.06	0.94
	0.02	0.01	0.0	228,225,0	0.28	1.43e-03	1.43e-03	225,45,45			1.00	0.04	0.96
451	0.14	0.13	0.0	231,230,0	0.30	0.03	0.04	225,44,42	0.42	225	0.85	0.06	0.94
	0.02	0.02	0.0	228,225,0	0.30	4.61e-03	4.61e-03	225,44,44			1.00	0.04	0.96
452	0.14	0.13	0.0	231,230,0	0.28	0.03	0.04	225,44,42	0.41	225	0.85	0.06	0.94
	0.02	0.02	0.0	228,225,0	0.28	4.61e-03	4.61e-03	225,44,44			1.00	0.04	0.96
453	0.14	0.13	0.0	231,230,0	0.30	0.03	0.03	225,45,42	0.42	225	0.85	0.06	0.94

	0.02	0.02	0.0	228,225,0	0.30	5.45e-03	5.45e-03	225,44,44			1.00	0.04	0.96
454	0.14	0.13	0.0	231,230,0	0.28	0.03	0.03	225,45,42	0.41	225	0.85	0.06	0.94
	0.02	0.02	0.0	228,225,0	0.28	5.45e-03	5.45e-03	225,44,44			1.00	0.04	0.96
455	0.09	0.10	0.0	224,221,0	0.27	0.02	0.02	225,45,42	0.40	225	0.85	0.06	0.94
	0.02	0.02	0.0	47,44,0	0.27	0.01	0.01	225,44,44			1.00	0.04	0.96
456	0.07	0.08	0.0	224,221,0	0.24	0.02	0.02	228,45,42	0.38	228	0.85	0.06	0.94
	0.02	0.01	0.0	228,225,0	0.24	5.45e-03	5.45e-03	228,44,44			1.00	0.04	0.96
1367	0.19	0.20	0.0	240,237,0	0.23	5.58e-03	0.03230,45,237		0.37	230	0.85	0.06	0.94
	5.47e-03	3.87e-03	0.0	45,44,0	0.23	1.10e-03	1.10e-03230,221,221				1.00	0.04	0.96
1371	0.19	0.20	0.0	240,237,0	0.23	5.58e-03	0.03230,45,237		0.37	230	0.85	0.06	0.94
	0.01	8.95e-03	0.0	45,44,0	0.23	0.01	0.01	230,44,44			1.00	0.04	0.96
1372	0.16	0.18	0.0	240,237,0	0.23	3.89e-03	0.02226,221,221		0.37	226	0.85	0.06	0.94
	0.02	0.01	0.0	44,44,0	0.23	0.01	0.01	226,44,44			1.00	0.04	0.96
1374	0.14	0.15	0.0	240,237,0	0.23	4.57e-03	0.02226,221,221		0.37	226	0.85	0.06	0.94
	0.02	0.01	0.0	44,44,0	0.23	0.01	0.01	226,44,44			1.00	0.04	0.96
1375	0.12	0.13	0.0	224,221,0	0.23	4.57e-03	0.02226,221,221		0.36	226	0.85	0.06	0.94
	0.02	0.01	0.0	44,44,0	0.23	0.01	0.01	226,44,44			1.00	0.04	0.96
1377	0.10	0.12	0.0	224,221,0	0.22	4.03e-03	0.02226,221,221		0.36	226	0.85	0.06	0.94
	0.02	0.01	0.0	43,44,0	0.22	0.01	0.01	226,44,44			1.00	0.04	0.96
1378	0.09	0.10	0.0	224,221,0	0.21	8.18e-03	0.02226,221,221		0.35	226	0.85	0.06	0.94
	0.01	0.01	0.0	45,44,0	0.21	0.01	0.01	226,44,44			1.00	0.04	0.96
1380	0.07	0.08	0.0	224,221,0	0.20	8.18e-03	0.02230,221,221		0.34	230	0.85	0.06	0.94
	4.07e-03	5.20e-03	0.0	236,44,0	0.20	2.14e-03	2.14e-03 230,45,45				1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.33	0.30	0.0	0.32	0.03	0.04	0.44

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
16	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.93	-19.5	201	0.79	-16.5	201	0.74	1.064e+04	2.748e+05	230

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
427	0.02	0.08	0.0	210,100,0	0.11	2.81e-03	0.01233,224,219		0.25	233	0.85	0.06	0.94
	6.68e-03	5.94e-03	0.0	236,233,0	0.11	1.81e-03	1.81e-03233,224,224				1.00	0.04	0.96
428	0.02	0.06	0.0	210,211,0	0.10	2.81e-03	9.46e-03233,224,224		0.25	233	0.85	0.06	0.94
	3.29e-03	5.45e-03	0.0	236,233,0	0.10	6.37e-04	6.37e-04233,209,209				1.00	0.04	0.96
429	0.01	0.10	0.0	218,100,0	0.11	2.43e-03	0.01233,221,219		0.25	233	0.85	0.06	0.94
	6.68e-03	5.94e-03	0.0	236,233,0	0.11	1.81e-03	1.81e-03233,224,224				1.00	0.04	0.96
430	0.02	0.11	0.0	218,100,0	0.11	9.42e-03	0.02233,221,219		0.25	233	0.85	0.06	0.94
	4.17e-03	3.87e-03	0.0	224,221,0	0.11	7.29e-03	7.29e-03233,221,221				1.00	0.04	0.96
443	0.03	0.12	0.0	218,219,0	0.11	0.03	0.04233,221,224		0.26	233	0.85	0.06	0.94
	4.17e-03	3.87e-03	0.0	224,221,0	0.11	7.29e-03	7.29e-03233,221,221				1.00	0.04	0.96
444	0.04	0.13	0.0	218,219,0	0.11	0.03	0.04225,221,224		0.26	225	0.85	0.06	0.94
	8.41e-03	0.01	0.0	221,221,0	0.11	0.01	0.01225,221,221				1.00	0.04	0.96
457	0.04	0.17	0.0	218,100,0	0.16	0.04	0.06225,221,224		0.30	225	0.85	0.06	0.94
	8.41e-03	0.01	0.0	221,221,0	0.16	0.01	0.01225,221,221				1.00	0.04	0.96
458	0.02	0.17	0.0	230,100,0	0.16	0.04	0.06225,221,224		0.30	225	0.85	0.06	0.94
	0.02	0.02	0.0	218,219,0	0.16	5.07e-03	5.07e-03225,218,218				1.00	0.04	0.96
459	0.28	0.39	0.0	230,231,0	0.11	2.81e-03	0.05233,224,231		0.25	233	0.85	0.06	0.94
	6.68e-03	5.94e-03	0.0	236,233,0	0.11	1.81e-03	1.81e-03233,224,224				1.00	0.04	0.96
460	0.28	0.39	0.0	230,231,0	0.10	2.81e-03	0.05233,224,231		0.25	233	0.85	0.06	0.94
	3.29e-03	5.45e-03	0.0	236,233,0	0.10	8.64e-04	8.64e-04233,219,219				1.00	0.04	0.96
461	0.24	0.33	0.0	230,231,0	0.11	2.43e-03	0.04233,221,225		0.25	233	0.85	0.06	0.94
	6.68e-03	5.94e-03	0.0	236,233,0	0.11	1.81e-03	1.81e-03233,224,224				1.00	0.04	0.96
462	0.20	0.29	0.0	230,231,0	0.11	9.42e-03	0.04233,221,231		0.25	233	0.85	0.06	0.94
	4.48e-03	3.87e-03	0.0	224,221,0	0.11	7.29e-03	7.29e-03233,221,221				1.00	0.04	0.96
463	0.28	0.39	0.0	230,231,0	0.09	2.50e-03	0.05233,218,231		0.22	233	0.85	0.06	0.94
	4.39e-03	2.78e-03	0.0	236,233,0	0.09	8.64e-04	8.64e-04233,219,219				1.00	0.04	0.96
464	0.28	0.39	0.0	230,231,0	0.09	2.50e-03	0.05233,218,231		0.22	233	0.85	0.06	0.94
	3.18e-03	2.10e-03	0.0	236,233,0	0.09	8.64e-04	8.64e-04233,219,219				1.00	0.04	0.96
465	0.24	0.33	0.0	230,231,0	0.06	1.59e-03	0.04233,217,225		0.19	233	0.85	0.06	0.94
	4.39e-03	2.78e-03	0.0	236,233,0	0.06	5.62e-04	5.62e-04233,221,221				1.00	0.04	0.96
466	0.20	0.29	0.0	230,231,0	0.05	1.50e-03	0.04233,218,231		0.17	233	0.85	0.06	0.94
	4.48e-03	3.55e-03	0.0	224,221,0	0.05	4.16e-03	4.16e-03233,221,221				1.00	0.04	0.96
467	0.17	0.25	0.0	226,227,0	0.11	0.03	0.04233,221,224		0.26	233	0.85	0.06	0.94
	4.48e-03	3.87e-03	0.0	224,221,0	0.11	7.29e-03	7.29e-03233,221,221				1.00	0.04	0.96
468	0.13	0.20	0.0	226,227,0	0.11	0.03	0.04225,221,224		0.26	225	0.85	0.06	0.94

	8.41e-03	0.01	0.0	221,221,0	0.11	0.01	0.01225,221,221			1.00	0.04	0.96
469	0.17	0.25	0.0	226,227,0	0.04	4.09e-03	0.03233,221,227	0.16	233	0.85	0.06	0.94
	4.48e-03	3.55e-03	0.0	224,221,0	0.04	4.16e-03	4.16e-03233,221,221			1.00	0.04	0.96
470	0.13	0.20	0.0	226,227,0	0.04	4.09e-03	0.02233,221,237	0.15	233	0.85	0.06	0.94
	6.46e-03	8.50e-03	0.0	224,221,0	0.04	4.65e-03	4.65e-03233,221,221			1.00	0.04	0.96
471	0.09	0.17	0.0	226,100,0	0.16	0.04	0.06225,221,224	0.30	225	0.85	0.06	0.94
	0.02	0.02	0.0	218,219,0	0.16	0.01	0.01225,221,221			1.00	0.04	0.96
472	0.05	0.12	0.0	230,231,0	0.12	0.02	0.03228,221,219	0.26	228	0.85	0.06	0.94
	0.02	0.02	0.0	218,219,0	0.12	6.84e-03	6.84e-03228,221,221			1.00	0.04	0.96
473	0.09	0.17	0.0	226,227,0	0.04	2.60e-03	0.02233,217,231	0.15	233	0.85	0.06	0.94
	6.46e-03	0.01	0.0	224,224,0	0.04	6.84e-03	6.84e-03233,221,221			1.00	0.04	0.96
474	0.05	0.12	0.0	230,231,0	0.04	2.60e-03	0.01236,217,231	0.15	236	0.85	0.06	0.94
	2.69e-03	0.01	0.0	221,224,0	0.04	6.84e-03	6.84e-03236,221,221			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.28	0.39	0.0	0.16	0.04	0.06	0.30

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
17	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.68	10.9	204	0.64	10.3	204	0.51	8064.5	-1.608e+05	233

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
475	0.13	0.16	0.0	233,236,0	0.05	2.09e-03	0.02236,219,216		0.17	236	0.85	0.06	0.94
	0.0	6.04e-03	0.0	0,100,0	0.05	1.69e-03	1.69e-03236,219,219				0.0	0.0	0.0
476	0.13	0.16	0.0	233,236,0	0.05	2.09e-03	0.02236,219,216		0.17	236	0.85	0.06	0.94
	6.69e-05	6.04e-03	0.0	227,100,0	0.05	1.69e-03	1.69e-03236,219,219				1.00	0.04	0.96
477	0.13	0.16	0.0	233,236,0	0.05	2.09e-03	0.02236,219,216		0.17	236	0.85	0.06	0.94
	6.69e-05	6.04e-03	0.0	227,100,0	0.05	1.69e-03	1.69e-03236,219,219				1.00	0.04	0.96
478	0.13	0.16	0.0	233,236,0	0.05	2.09e-03	0.02236,219,216		0.17	236	0.85	0.06	0.94
	0.0	6.04e-03	0.0	0,100,0	0.05	1.69e-03	1.69e-03236,219,219				0.0	0.0	0.0
479	0.11	0.15	0.0	233,236,0	0.04	5.42e-04	0.02236,218,236		0.16	236	0.85	0.06	0.94
	6.69e-05	2.80e-03	0.0	227,100,0	0.04	1.11e-03	1.11e-03236,219,219				1.00	0.04	0.96
480	0.11	0.15	0.0	233,236,0	0.04	5.42e-04	0.02236,218,236		0.16	236	0.85	0.06	0.94
	6.69e-05	2.80e-03	0.0	227,100,0	0.04	1.11e-03	1.11e-03236,219,219				1.00	0.04	0.96
481	0.08	0.13	0.0	233,236,0	0.04	7.03e-04	0.01236,210,236		0.16	236	0.85	0.06	0.94
	0.0	1.31e-03	0.0	0,100,0	0.04	4.71e-04	4.71e-04236,219,219				0.0	0.0	0.0
482	0.08	0.13	0.0	233,236,0	0.04	7.03e-04	0.01236,210,236		0.16	236	0.85	0.06	0.94
	0.0	1.31e-03	0.0	0,100,0	0.04	4.71e-04	4.71e-04236,219,219				0.0	0.0	0.0
483	0.06	0.11	0.0	233,236,0	0.04	7.03e-04	0.01236,210,240		0.16	236	0.85	0.06	0.94
	0.0	1.97e-03	0.0	0,100,0	0.04	5.89e-04	5.89e-04236,219,219				0.0	0.0	0.0
484	0.06	0.11	0.0	233,236,0	0.04	7.03e-04	0.01236,210,240		0.16	236	0.85	0.06	0.94
	0.0	1.97e-03	0.0	0,100,0	0.04	5.89e-04	5.89e-04236,219,219				0.0	0.0	0.0
485	0.04	0.10	0.0	237,240,0	0.04	8.45e-04	0.01236,213,236		0.16	236	0.85	0.06	0.94
	0.0	5.32e-03	0.0	0,100,0	0.04	5.89e-04	5.89e-04236,219,219				0.0	0.0	0.0
486	0.04	0.10	0.0	237,240,0	0.04	8.45e-04	0.01236,213,236		0.16	236	0.85	0.06	0.94
	0.0	5.32e-03	0.0	0,100,0	0.04	5.89e-04	5.89e-04236,219,219				0.0	0.0	0.0
487	0.02	0.13	0.0	237,100,0	0.06	3.34e-03	0.02236,218,100		0.19	236	0.85	0.06	0.94
	9.90e-03	8.22e-03	0.0	236,233,0	0.06	1.56e-03	1.56e-03236,218,218				1.00	0.04	0.96
488	0.02	0.13	0.0	237,100,0	0.06	2.56e-03	0.02236,100,100		0.19	236	0.85	0.06	0.94
	0.0	5.35e-03	0.0	0,100,0	0.06	1.56e-03	1.56e-03236,218,218				0.0	0.0	0.0
489	0.02	0.06	0.0	237,240,0	0.06	3.34e-03	7.81e-03233,218,224		0.19	233	0.85	0.06	0.94
	9.90e-03	8.22e-03	0.0	236,233,0	0.06	9.80e-04	9.80e-04233,231,231				1.00	0.04	0.96
490	0.02	0.13	0.0	237,100,0	0.06	3.34e-03	0.02236,218,100		0.19	236	0.85	0.06	0.94
	9.90e-03	8.22e-03	0.0	236,233,0	0.06	1.56e-03	1.56e-03236,218,218				1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.13	0.16	0.0	0.06	3.34e-03	0.02	0.19

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
18	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	

ok	0.82	139.7	186	0.81	138.2	186	0.96	1.094e+04	6.747e+06	219			

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
477	0.13	0.21	0.0	230,231,0	0.15	0.03	0.06	218,231,231	0.30	218	0.85	0.06	0.94
	0.01	8.99e-03	0.0	230,231,0	0.15	8.33e-03	8.33e-03	218,230,230			1.00	0.04	0.96
478	0.13	0.21	0.0	230,231,0	0.15	0.03	0.06	218,231,231	0.30	218	0.85	0.06	0.94
	9.21e-03	7.54e-03	0.0	230,231,0	0.15	5.05e-03	5.05e-03	218,234,234			1.00	0.04	0.96
480	0.13	0.20	0.0	230,231,0	0.13	8.82e-03	0.04	221,225,231	0.28	221	0.85	0.06	0.94
	0.01	8.99e-03	0.0	230,231,0	0.13	8.33e-03	8.33e-03	221,230,230			1.00	0.04	0.96
482	0.10	0.18	0.0	230,231,0	0.14	8.62e-03	0.04	217,226,231	0.28	217	0.85	0.06	0.94
	0.01	8.69e-03	0.0	228,228,0	0.14	8.20e-03	8.20e-03	217,228,228			1.00	0.04	0.96
484	0.07	0.15	0.0	230,231,0	0.14	9.27e-03	0.04	217,226,231	0.29	217	0.85	0.06	0.94
	0.01	0.01	0.0	232,230,0	0.14	0.01	0.01	217,230,230			1.00	0.04	0.96
486	0.03	0.11	0.0	230,231,0	0.15	0.01	0.03	221,233,231	0.30	221	0.85	0.06	0.94
	0.01	0.02	0.0	232,226,0	0.15	0.01	0.01	221,226,226			1.00	0.04	0.96
488	0.0	0.09	0.0	0,100,0	0.18	0.01	0.02	218,233,233	0.32	218	0.0	0.0	0.0
	0.02	0.02	0.0	231,230,0	0.18	0.01	0.01	218,226,226			1.00	0.04	0.96
490	0.0	0.08	0.0	0,100,0	0.18	0.01	0.02	218,233,233	0.32	218	0.0	0.0	0.0
	0.02	0.02	0.0	231,230,0	0.18	0.01	0.01	218,226,226			1.00	0.04	0.96
491	0.33	0.31	0.0	219,218,0	0.17	3.71e-03	0.04	218,225,218	0.32	218	0.85	0.06	0.94
	0.01	9.51e-03	0.0	219,218,0	0.17	3.22e-03	3.22e-03	218,225,225			1.00	0.04	0.96
492	0.33	0.31	0.0	219,218,0	0.16	3.71e-03	0.04	218,225,218	0.31	218	0.85	0.06	0.94
	7.77e-03	5.61e-03	0.0	219,218,0	0.16	3.22e-03	3.22e-03	218,225,225			1.00	0.04	0.96
493	0.30	0.27	0.0	219,218,0	0.17	3.00e-03	0.03	218,225,218	0.32	218	0.85	0.06	0.94
	0.01	9.51e-03	0.0	219,218,0	0.17	1.68e-03	1.68e-03	218,233,233			1.00	0.04	0.96
494	0.26	0.24	0.0	219,218,0	0.17	2.16e-03	0.03	218,225,218	0.32	218	0.85	0.06	0.94
	0.01	7.09e-03	0.0	219,218,0	0.17	1.68e-03	1.68e-03	218,233,233			1.00	0.04	0.96
495	0.11	0.11	0.0	219,218,0	0.17	1.75e-03	0.01	218,233,218	0.32	218	0.85	0.06	0.94
	0.01	9.51e-03	0.0	219,218,0	0.17	3.34e-03	3.34e-03	218,225,225			1.00	0.04	0.96
496	0.11	0.11	0.0	219,218,0	0.16	1.75e-03	0.01	218,233,218	0.31	218	0.85	0.06	0.94
	7.77e-03	5.61e-03	0.0	219,218,0	0.16	3.34e-03	3.34e-03	218,225,225			1.00	0.04	0.96
497	0.11	0.11	0.0	219,218,0	0.18	1.36e-03	0.01	218,233,218	0.32	218	0.85	0.06	0.94
	0.01	9.51e-03	0.0	219,218,0	0.18	1.78e-03	1.78e-03	218,228,228			1.00	0.04	0.96
498	0.11	0.11	0.0	219,218,0	0.18	1.16e-03	0.01	218,233,218	0.33	218	0.85	0.06	0.94
	0.01	9.05e-03	0.0	223,233,0	0.18	3.49e-03	3.49e-03	218,228,228			1.00	0.04	0.96
499	0.05	0.07	0.0	224,221,0	0.18	7.79e-03	0.01	218,233,233	0.32	218	0.85	0.06	0.94
	0.01	9.50e-03	0.0	223,237,0	0.18	5.21e-03	5.21e-03	218,225,225			1.00	0.04	0.96
500	0.05	0.07	0.0	224,221,0	0.17	7.79e-03	0.01	218,233,233	0.31	218	0.85	0.06	0.94
	5.73e-03	4.86e-03	0.0	223,237,0	0.17	3.34e-03	3.34e-03	218,225,225			1.00	0.04	0.96
501	0.05	0.06	0.0	224,221,0	0.19	4.97e-03	0.01	218,233,233	0.33	218	0.85	0.06	0.94
	0.01	9.50e-03	0.0	232,237,0	0.19	7.29e-03	7.29e-03	218,225,225			1.00	0.04	0.96
502	0.05	0.06	0.0	224,221,0	0.19	1.96e-03	0.01	218,228,233	0.34	218	0.85	0.06	0.94
	0.02	0.01	0.0	232,230,0	0.19	8.07e-03	8.07e-03	218,225,225			1.00	0.04	0.96
503	0.06	0.10	0.0	228,225,0	0.18	0.02	0.03	218,225,225	0.32	218	0.85	0.06	0.94
	0.03	0.02	0.0	228,225,0	0.18	0.02	0.02	218,228,228			1.00	0.04	0.96
504	0.06	0.10	0.0	228,225,0	0.17	0.02	0.03	218,225,225	0.31	218	0.85	0.06	0.94
	0.01	9.71e-03	0.0	228,225,0	0.17	8.77e-03	8.77e-03	218,236,236			1.00	0.04	0.96
505	0.06	0.09	0.0	228,225,0	0.19	5.34e-03	0.02	218,233,233	0.33	218	0.85	0.06	0.94
	0.04	0.03	0.0	228,225,0	0.19	0.02	0.02	218,228,228			1.00	0.04	0.96
506	0.05	0.08	0.0	236,233,0	0.19	4.28e-03	0.02	218,228,233	0.34	218	0.85	0.06	0.94
	0.04	0.03	0.0	228,228,0	0.19	0.02	0.02	218,225,225			1.00	0.04	0.96
507	0.07	0.12	0.0	230,231,0	0.19	0.02	0.04	218,225,225	0.33	218	0.85	0.06	0.94
	0.03	0.02	0.0	228,225,0	0.19	0.03	0.03	218,228,228			1.00	0.04	0.96
508	0.06	0.11	0.0	228,225,0	0.17	0.02	0.04	218,225,225	0.32	218	0.85	0.06	0.94
	0.01	9.71e-03	0.0	228,225,0	0.17	0.02	0.02	218,228,228			1.00	0.04	0.96
509	0.07	0.12	0.0	230,231,0	0.20	8.02e-03	0.03	218,233,225	0.34	218	0.85	0.06	0.94
	0.04	0.03	0.0	228,225,0	0.20	0.03	0.03	218,228,228			1.00	0.04	0.96
510	0.06	0.11	0.0	230,231,0	0.21	5.84e-03	0.03	218,230,231	0.35	218	0.85	0.06	0.94
	0.04	0.03	0.0	228,228,0	0.21	0.02	0.02	218,228,228			1.00	0.04	0.96
511	0.13	0.21	0.0	230,231,0	0.19	0.03	0.06	218,231,231	0.33	218	0.85	0.06	0.94
	0.02	0.02	0.0	228,225,0	0.19	0.03	0.03	218,228,228			1.00	0.04	0.96
512	0.13	0.21	0.0	230,231,0	0.17	0.03	0.06	218,231,231	0.32	218	0.85	0.06	0.94
	9.21e-03	7.54e-03	0.0	230,231,0	0.17	0.02	0.02	218,228,228			1.00	0.04	0.96
513	0.13	0.20	0.0	230,231,0	0.20	8.82e-03	0.04	218,225,231	0.34	218	0.85	0.06	0.94
	0.03	0.02	0.0	228,225,0	0.20	0.03	0.03	218,228,228			1.00	0.04	0.96
514	0.10	0.18	0.0	230,231,0	0.21	8.62e-03	0.04	218,226,231	0.35	218	0.85	0.06	0.94
	0.04	0.03	0.0	228,228,0	0.21	0.02	0.02	218,228,228			1.00	0.04	0.96
519	0.23	0.20	0.0	219,218,0	0.16	1.48e-03	0.02	218,225,218	0.31	218	0.85	0.06	0.94
	7.75e-03	5.34e-03	0.0	231,237,0	0.16	2.16e-03	2.16e-03	218,228,228			1.00	0.04	0.96
520	0.19	0.17	0.0	219,218,0	0.15	1.90e-03	0.02	218,239,218	0.30	218	0.85	0.06	0.94
	4.20e-03	5.42e-03	0.0	231,230,0	0.15	3.06e-03	3.06e-03	218,228,228			1.00	0.04	0.96
521	0.11	0.11	0.0	219,218,0	0.18	9.61e-04	0.01	218,233,218	0.33	218	0.85	0.06	0.94
	0.01	0.01	0.0	231,230,0	0.18	4.71e-03	4.71e-03	218,228,228			1.00	0.04	0.96
522	0.11	0.11	0.0	219,218,0	0.18	1.32e-03	0.01	218,227,218	0.33	218	0.85	0.06	0.94
	0.01	0.01	0.0	231,230,0	0.18	5.36e-03	5.36e-03	218,228,228			1.00	0.04	0.96

523	0.04	0.06	0.0 224,221,0	0.19	3.50e-03	0.01218,233,233	0.34	218	0.85	0.06	0.94
	0.02	0.02	0.0 228,228,0	0.19	8.07e-03	8.07e-03218,225,225			1.00	0.04	0.96
524	0.04	0.06	0.0 224,221,0	0.19	4.41e-03	0.01218,233,233	0.34	218	0.85	0.06	0.94
	0.03	0.03	0.0 225,228,0	0.19	7.88e-03	7.88e-03218,228,228			1.00	0.04	0.96
525	0.04	0.07	0.0 236,233,0	0.19	5.35e-03	0.02218,228,233	0.34	218	0.85	0.06	0.94
	0.05	0.04	0.0 228,228,0	0.19	0.01	0.01218,225,225			1.00	0.04	0.96
526	0.02	0.06	0.0 236,233,0	0.19	6.34e-03	0.02218,233,233	0.34	218	0.85	0.06	0.94
	0.05	0.04	0.0 225,228,0	0.19	0.01	0.01218,225,225			1.00	0.04	0.96
527	0.05	0.10	0.0 230,231,0	0.21	6.46e-03	0.03218,230,231	0.35	218	0.85	0.06	0.94
	0.05	0.04	0.0 228,228,0	0.21	0.01	0.01218,225,225			1.00	0.04	0.96
528	0.03	0.08	0.0 230,231,0	0.21	7.68e-03	0.02218,233,231	0.35	218	0.85	0.06	0.94
	0.05	0.04	0.0 225,228,0	0.21	0.01	0.01218,225,225			1.00	0.04	0.96
529	0.07	0.15	0.0 230,231,0	0.21	9.27e-03	0.04218,226,231	0.35	218	0.85	0.06	0.94
	0.04	0.04	0.0 228,228,0	0.21	0.01	0.01218,225,225			1.00	0.04	0.96
530	0.03	0.11	0.0 230,231,0	0.21	0.01	0.03218,233,231	0.35	218	0.85	0.06	0.94
	0.05	0.04	0.0 231,230,0	0.21	0.01	0.01218,225,225			1.00	0.04	0.96
533	0.16	0.14	0.0 219,218,0	0.14	2.44e-03	0.02218,227,218	0.29	218	0.85	0.06	0.94
	9.77e-03	7.19e-03	0.0 231,230,0	0.14	4.58e-03	4.58e-03218,226,226			1.00	0.04	0.96
534	0.14	0.13	0.0 219,218,0	0.13	2.44e-03	0.02218,227,218	0.28	218	0.85	0.06	0.94
	9.77e-03	7.19e-03	0.0 231,230,0	0.13	4.58e-03	4.58e-03218,226,226			1.00	0.04	0.96
535	0.11	0.11	0.0 219,218,0	0.18	1.90e-03	0.01218,227,218	0.32	218	0.85	0.06	0.94
	0.02	0.02	0.0 231,230,0	0.18	6.90e-03	6.90e-03218,226,226			1.00	0.04	0.96
536	0.10	0.10	0.0 219,218,0	0.17	1.90e-03	0.01218,227,218	0.32	218	0.85	0.06	0.94
	0.02	0.02	0.0 231,230,0	0.17	6.90e-03	6.90e-03218,226,226			1.00	0.04	0.96
537	0.04	0.06	0.0 224,221,0	0.19	4.41e-03	0.01218,233,233	0.34	218	0.85	0.06	0.94
	0.04	0.03	0.0 231,230,0	0.19	8.34e-03	8.34e-03218,226,226			1.00	0.04	0.96
538	0.04	0.05	0.0 224,221,0	0.19	4.37e-03	8.69e-03218,233,233	0.33	218	0.85	0.06	0.94
	0.04	0.03	0.0 231,230,0	0.19	8.34e-03	8.34e-03218,226,226			1.00	0.04	0.96
539	0.01	0.04	0.0 224,100,0	0.19	7.85e-03	0.01218,233,233	0.34	218	0.85	0.06	0.94
	0.06	0.05	0.0 231,230,0	0.19	0.01	0.01218,225,225			1.00	0.04	0.96
540	0.01	0.04	0.0 224,100,0	0.19	7.85e-03	0.01218,233,233	0.33	218	0.85	0.06	0.94
	0.06	0.05	0.0 231,230,0	0.19	9.81e-03	9.81e-03218,228,228			1.00	0.04	0.96
541	0.01	0.06	0.0 230,231,0	0.21	0.01	0.02218,233,239	0.35	218	0.85	0.06	0.94
	0.06	0.05	0.0 231,230,0	0.21	0.02	0.02218,225,225			1.00	0.04	0.96
542	5.43e-03	0.05	0.0 230,100,0	0.21	0.01	0.02218,233,239	0.35	218	0.85	0.06	0.94
	0.06	0.05	0.0 231,230,0	0.21	0.02	0.02218,225,225			1.00	0.04	0.96
543	0.01	0.09	0.0 230,100,0	0.21	0.01	0.02218,233,233	0.35	218	0.85	0.06	0.94
	0.06	0.05	0.0 227,226,0	0.21	0.02	0.02218,225,225			1.00	0.04	0.96
544	5.43e-03	0.08	0.0 230,100,0	0.21	0.01	0.02218,233,233	0.35	218	0.85	0.06	0.94
	0.06	0.05	0.0 227,226,0	0.21	0.02	0.02218,225,225			1.00	0.04	0.96
1381	0.33	0.31	0.0 219,218,0	0.13	3.71e-03	0.04218,225,218	0.28	218	0.85	0.06	0.94
	6.86e-03	4.83e-03	0.0 219,218,0	0.13	2.83e-03	2.83e-03218,225,225			1.00	0.04	0.96
2753	0.33	0.31	0.0 219,218,0	0.13	3.71e-03	0.04218,225,218	0.28	218	0.85	0.06	0.94
	4.14e-03	3.14e-03	0.0 219,218,0	0.13	2.83e-03	2.83e-03218,225,225			1.00	0.04	0.96
2755	0.30	0.27	0.0 219,218,0	0.10	3.00e-03	0.03218,225,218	0.24	218	0.85	0.06	0.94
	6.86e-03	4.83e-03	0.0 219,218,0	0.10	1.17e-03	1.17e-03218,233,233			1.00	0.04	0.96
2757	0.26	0.24	0.0 219,218,0	0.08	2.16e-03	0.03218,225,218	0.22	218	0.85	0.06	0.94
	4.50e-03	3.09e-03	0.0 219,218,0	0.08	1.17e-03	1.17e-03218,233,233			1.00	0.04	0.96
2759	0.23	0.20	0.0 219,218,0	0.07	1.48e-03	0.02218,225,218	0.20	218	0.85	0.06	0.94
	2.95e-03	2.00e-03	0.0 219,218,0	0.07	9.92e-04	9.92e-04218,233,233			1.00	0.04	0.96
2761	0.19	0.17	0.0 219,218,0	0.06	1.90e-03	0.02218,239,218	0.19	218	0.85	0.06	0.94
	2.61e-03	1.82e-03	0.0 47,16,0	0.06	2.95e-04	2.95e-04218,239,239			1.00	0.04	0.96
2763	0.16	0.14	0.0 219,218,0	0.06	2.18e-03	0.02218,227,218	0.19	218	0.85	0.06	0.94
	2.61e-03	1.82e-03	0.0 47,16,0	0.06	1.08e-03	1.08e-03 218,44,44			1.00	0.04	0.96
2767	0.14	0.13	0.0 219,218,0	0.06	2.44e-03	0.02218,227,218	0.19	218	0.85	0.06	0.94
	6.34e-03	3.70e-03	0.0 227,45,0	0.06	1.08e-03	1.08e-03 218,44,44			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.33	0.31	0.0	0.21	0.03	0.06	0.35

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
19	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.88	-136.5	187	0.87	-135.3	187	0.62	7634.3	-3.013e+06	218

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
547	0.0	0.17	0.0	0,100,0	0.17	1.55e-03	0.02219,232,100		0.32	219	0.0	0.0	0.0
	3.23e-03	2.24e-03	0.0	219,218,0	0.17	4.06e-04	4.06e-04219,228,228				1.00	0.04	0.96

548	0.0	0.17	0.0	0,100,0	0.17	1.55e-03	0.02219,232,100	0.32	219	0.0	0.0	0.0
	3.94e-03	3.33e-03	0.0	219,218,0	0.17	4.06e-04	4.06e-04219,228,228			1.00	0.04	0.96
549	0.03	0.17	0.0	218,100,0	0.24	1.55e-03	0.02219,232,100	0.37	219	0.85	0.06	0.94
	3.94e-03	3.72e-03	0.0	219,218,0	0.24	4.27e-04	4.27e-04219,228,228			1.00	0.04	0.96
550	0.03	0.17	0.0	218,100,0	0.20	1.55e-03	0.02219,232,100	0.35	219	0.85	0.06	0.94
	3.23e-03	2.79e-03	0.0	219,218,0	0.20	4.27e-04	4.27e-04219,228,228			1.00	0.04	0.96
551	0.0	0.17	0.0	0,100,0	0.15	1.28e-03	0.02219,232,100	0.29	219	0.0	0.0	0.0
	3.94e-03	3.33e-03	0.0	219,218,0	0.15	1.04e-04	1.04e-04219,225,225			1.00	0.04	0.96
552	0.02	0.17	0.0	218,100,0	0.26	1.28e-03	0.02219,232,100	0.40	219	0.85	0.06	0.94
	3.94e-03	3.72e-03	0.0	219,218,0	0.26	1.04e-04	1.04e-04219,225,225			1.00	0.04	0.96
553	0.02	0.18	0.0	218,100,0	0.14	9.11e-04	0.02219,232,100	0.28	219	0.85	0.06	0.94
	3.63e-04	3.43e-03	0.0	219,100,0	0.14	2.98e-05	2.98e-05219,216,216			1.00	0.04	0.96
554	0.02	0.18	0.0	218,100,0	0.29	9.11e-04	0.02219,232,100	0.41	219	0.85	0.06	0.94
	3.63e-04	5.03e-03	0.0	219,100,0	0.29	5.94e-05	5.94e-05219,219,219			1.00	0.04	0.96
555	0.03	0.12	0.0	218,219,0	0.24	1.51e-03	0.01219,235,219	0.37	219	0.85	0.06	0.94
	2.62e-03	4.16e-03	0.0	219,219,0	0.24	4.30e-04	4.30e-04219,228,228			1.00	0.04	0.96
556	0.03	0.12	0.0	218,219,0	0.20	1.51e-03	0.01219,235,219	0.35	219	0.85	0.06	0.94
	2.62e-03	2.79e-03	0.0	219,218,0	0.20	4.30e-04	4.30e-04219,228,228			1.00	0.04	0.96
557	0.02	0.11	0.0	218,219,0	0.26	1.19e-03	0.01219,239,219	0.40	219	0.85	0.06	0.94
	2.58e-03	5.53e-03	0.0	218,219,0	0.26	9.87e-05	9.87e-05219,225,225			1.00	0.04	0.96
558	0.02	0.11	0.0	218,219,0	0.29	7.94e-04	0.01219,240,219	0.41	219	0.85	0.06	0.94
	3.05e-03	7.09e-03	0.0	218,219,0	0.29	5.94e-05	5.94e-05219,219,219			1.00	0.04	0.96
559	0.0	0.05	0.0	0,100,0	0.21	1.53e-03	5.52e-03219,235,231	0.35	219	0.0	0.0	0.0
	6.80e-03	7.12e-03	0.0	218,219,0	0.21	4.30e-04	4.30e-04219,228,228			1.00	0.04	0.96
560	0.0	0.05	0.0	0,100,0	0.20	1.53e-03	5.22e-03219,235,231	0.34	219	0.0	0.0	0.0
	3.41e-03	3.74e-03	0.0	218,219,0	0.20	4.30e-04	4.30e-04219,228,228			1.00	0.04	0.96
561	0.0	0.05	0.0	0,100,0	0.22	1.26e-03	5.52e-03219,235,231	0.36	219	0.0	0.0	0.0
	6.80e-03	7.12e-03	0.0	218,219,0	0.22	9.92e-05	9.92e-05219,212,212			1.00	0.04	0.96
562	0.0	0.05	0.0	0,100,0	0.23	8.62e-04	5.39e-03219,235,231	0.37	219	0.0	0.0	0.0
	5.85e-03	7.22e-03	0.0	218,219,0	0.23	6.13e-05	6.13e-05219,219,219			1.00	0.04	0.96
563	0.02	0.03	0.0	218,219,0	0.20	1.53e-03	4.26e-03219,235,231	0.34	219	0.85	0.06	0.94
	0.01	8.90e-03	0.0	218,219,0	0.20	4.30e-04	4.30e-04219,228,228			1.00	0.04	0.96
564	0.01	0.03	0.0	218,100,0	0.19	1.53e-03	3.64e-03219,235,231	0.33	219	0.85	0.06	0.94
	6.55e-03	5.31e-03	0.0	218,219,0	0.19	4.30e-04	4.30e-04219,228,228			1.00	0.04	0.96
565	0.02	0.04	0.0	218,219,0	0.20	1.26e-03	4.49e-03219,235,231	0.35	219	0.85	0.06	0.94
	0.01	8.90e-03	0.0	218,219,0	0.20	9.92e-05	9.92e-05219,212,212			1.00	0.04	0.96
566	0.02	0.04	0.0	218,219,0	0.20	8.62e-04	4.49e-03219,235,231	0.35	219	0.85	0.06	0.94
	7.31e-03	7.22e-03	0.0	218,219,0	0.20	6.64e-05	6.64e-05219,219,219			1.00	0.04	0.96
567	0.21	0.20	0.0	218,219,0	0.20	1.46e-03	0.02219,234,219	0.34	219	0.85	0.06	0.94
	0.01	8.90e-03	0.0	218,219,0	0.20	4.28e-04	4.28e-04219,228,228			1.00	0.04	0.96
568	0.21	0.20	0.0	218,219,0	0.19	1.46e-03	0.02219,234,219	0.33	219	0.85	0.06	0.94
	6.55e-03	5.31e-03	0.0	218,219,0	0.19	4.28e-04	4.28e-04219,228,228			1.00	0.04	0.96
569	0.17	0.16	0.0	218,219,0	0.20	1.20e-03	0.02219,234,219	0.34	219	0.85	0.06	0.94
	0.01	8.90e-03	0.0	218,219,0	0.20	1.04e-04	1.04e-04219,225,225			1.00	0.04	0.96
570	0.13	0.12	0.0	218,219,0	0.20	8.30e-04	0.01219,235,219	0.34	219	0.85	0.06	0.94
	7.31e-03	6.67e-03	0.0	218,219,0	0.20	6.64e-05	6.64e-05219,219,219			1.00	0.04	0.96
571	0.21	0.20	0.0	218,219,0	0.15	1.46e-03	0.02219,234,219	0.30	219	0.85	0.06	0.94
	6.43e-03	4.82e-03	0.0	218,219,0	0.15	4.05e-04	4.05e-04219,228,228			1.00	0.04	0.96
572	0.21	0.20	0.0	218,219,0	0.15	1.46e-03	0.02219,234,219	0.30	219	0.85	0.06	0.94
	4.01e-03	3.16e-03	0.0	218,219,0	0.15	4.05e-04	4.05e-04219,228,228			1.00	0.04	0.96
573	0.17	0.16	0.0	218,219,0	0.12	1.20e-03	0.02219,234,219	0.27	219	0.85	0.06	0.94
	6.43e-03	4.82e-03	0.0	218,219,0	0.12	1.04e-04	1.04e-04219,225,225			1.00	0.04	0.96
574	0.13	0.12	0.0	218,219,0	0.10	8.18e-04	0.01219,234,219	0.24	219	0.85	0.06	0.94
	3.78e-03	3.02e-03	0.0	218,219,0	0.10	3.78e-05	3.78e-05219,230,230			1.00	0.04	0.96
575	0.06	0.21	0.0	218,219,0	0.15	5.03e-04	0.02219,226,219	0.29	219	0.85	0.06	0.94
	0.0	7.16e-03	0.0	0,100,0	0.15	3.22e-05	3.22e-05219,216,216			0.0	0.0	0.0
576	0.06	0.21	0.0	218,219,0	0.31	5.20e-04	0.02219,226,219	0.43	219	0.85	0.06	0.94
	7.51e-04	8.28e-03	0.0	218,100,0	0.31	8.22e-05	8.22e-05219,224,224			1.00	0.04	0.96
577	0.10	0.25	0.0	218,219,0	0.16	1.26e-03	0.03219,234,219	0.31	219	0.85	0.06	0.94
	0.0	0.01	0.0	0,100,0	0.16	1.61e-04	1.61e-04219,228,228			0.0	0.0	0.0
578	0.10	0.25	0.0	218,219,0	0.33	1.26e-03	0.03219,235,219	0.44	219	0.85	0.06	0.94
	7.51e-04	0.01	0.0	218,100,0	0.33	1.66e-04	1.66e-04219,228,228			1.00	0.04	0.96
579	0.01	0.10	0.0	218,219,0	0.31	5.55e-04	0.01219,235,219	0.43	219	0.85	0.06	0.94
	3.05e-03	9.18e-03	0.0	218,219,0	0.31	1.14e-04	1.14e-04219,219,219			1.00	0.04	0.96
580	0.01	0.10	0.0	218,100,0	0.33	1.35e-03	0.01219,235,219	0.44	219	0.85	0.06	0.94
	2.71e-03	0.01	0.0	218,100,0	0.33	1.66e-04	1.66e-04219,228,228			1.00	0.04	0.96
581	0.0	0.05	0.0	0,100,0	0.23	5.55e-04	4.86e-03219,235,231	0.37	219	0.0	0.0	0.0
	4.82e-03	9.18e-03	0.0	218,219,0	0.23	1.14e-04	1.14e-04219,219,219			1.00	0.04	0.96
582	0.0	0.04	0.0	0,100,0	0.23	1.43e-03	4.70e-03219,235,231	0.37	219	0.0	0.0	0.0
	3.53e-03	0.01	0.0	218,219,0	0.23	3.37e-04	3.37e-04219,211,211			1.00	0.04	0.96
583	0.02	0.03	0.0	218,219,0	0.20	5.50e-04	4.18e-03219,239,231	0.35	219	0.85	0.06	0.94
	4.82e-03	8.04e-03	0.0	218,219,0	0.20	1.68e-04	1.68e-04219,219,219			1.00	0.04	0.96
584	0.02	0.03	0.0	218,219,0	0.20	1.43e-03	4.43e-03218,235,231	0.34	218	0.85	0.06	0.94
	3.53e-03	9.08e-03	0.0	218,219,0	0.20	3.37e-04	3.37e-04218,211,211			1.00	0.04	0.96
585	0.09	0.09	0.0	218,219,0	0.19	6.66e-04	9.93e-03219,228,219	0.33	219	0.85	0.06	0.94
	4.77e-03	5.49e-03	0.0	218,219,0	0.19	1.68e-04	1.68e-04219,219,219			1.00	0.04	0.96
586	0.06	0.06	0.0	218,219,0	0.18	1.45e-03	6.48e-03218,236,219	0.33	218	0.85	0.06	0.94

	2.31e-03	5.06e-03	0.0	218,100,0	0.18	2.03e-04	2.03e-04	218,231,231			1.00	0.04	0.96
587	0.09	0.09	0.0	218,219,0	0.08	6.66e-04	9.93e-03	219,228,219	0.22	219	0.85	0.06	0.94
	2.15e-03	2.04e-03	0.0	218,219,0	0.08	4.09e-05	4.09e-05	219,228,228			1.00	0.04	0.96
588	0.06	0.06	0.0	218,219,0	0.08	1.45e-03	6.48e-03	218,236,219	0.21	218	0.85	0.06	0.94
	5.44e-04	1.89e-03	0.0	218,100,0	0.08	2.03e-04	2.03e-04	218,231,231			1.00	0.04	0.96
589	0.14	0.28	0.0	218,219,0	0.19	2.24e-03	0.04	219,234,219	0.33	219	0.85	0.06	0.94
	0.0	0.02	0.0	0,100,0	0.19	4.82e-04	4.82e-04	219,232,232			0.0	0.0	0.0
590	0.14	0.28	0.0	218,219,0	0.35	2.24e-03	0.04	219,234,219	0.45	219	0.85	0.06	0.94
	5.97e-03	0.02	0.0	218,100,0	0.35	4.97e-04	4.97e-04	219,225,225			1.00	0.04	0.96
591	0.14	0.28	0.0	218,219,0	0.19	2.24e-03	0.04	219,234,219	0.33	219	0.85	0.06	0.94
	0.0	0.02	0.0	0,100,0	0.19	4.82e-04	4.82e-04	219,232,232			0.0	0.0	0.0
592	0.14	0.28	0.0	218,219,0	0.35	2.24e-03	0.04	219,234,219	0.45	219	0.85	0.06	0.94
	5.97e-03	0.02	0.0	218,100,0	0.35	4.97e-04	4.97e-04	219,225,225			1.00	0.04	0.96
593	9.09e-03	0.10	0.0	218,100,0	0.35	2.20e-03	0.01	219,233,219	0.45	219	0.85	0.06	0.94
	5.97e-03	0.01	0.0	218,100,0	0.35	4.97e-04	4.97e-04	219,225,225			1.00	0.04	0.96
594	3.85e-03	0.10	0.0	218,100,0	0.35	2.20e-03	0.01	219,233,100	0.45	219	0.85	0.06	0.94
	5.97e-03	0.01	0.0	218,219,0	0.35	4.97e-04	4.97e-04	219,225,225			1.00	0.04	0.96
595	0.0	0.04	0.0	0,100,0	0.23	2.20e-03	4.69e-03	219,233,231	0.37	219	0.0	0.0	0.0
	5.42e-03	0.01	0.0	218,219,0	0.23	6.87e-04	6.87e-04	219,231,231			1.00	0.04	0.96
596	0.0	0.04	0.0	0,100,0	0.22	2.20e-03	4.62e-03	219,233,233	0.36	219	0.0	0.0	0.0
	5.42e-03	8.31e-03	0.0	218,219,0	0.22	6.87e-04	6.87e-04	219,231,231			1.00	0.04	0.96
597	0.02	0.03	0.0	218,219,0	0.20	2.40e-03	4.74e-03	218,235,231	0.34	218	0.85	0.06	0.94
	4.04e-03	9.08e-03	0.0	218,219,0	0.20	1.81e-03	1.81e-03	218,219,219			1.00	0.04	0.96
598	0.02	0.03	0.0	218,219,0	0.19	2.40e-03	4.74e-03	218,235,231	0.34	218	0.85	0.06	0.94
	4.04e-03	5.85e-03	0.0	218,219,0	0.19	1.81e-03	1.81e-03	218,219,219			1.00	0.04	0.96
599	0.02	0.03	0.0	218,219,0	0.17	2.40e-03	4.74e-03	218,235,231	0.32	218	0.85	0.06	0.94
	3.20e-03	5.06e-03	0.0	218,100,0	0.17	2.48e-03	2.48e-03	218,211,211			1.00	0.04	0.96
600	0.02	0.03	0.0	218,219,0	0.16	2.40e-03	4.74e-03	218,235,231	0.31	218	0.85	0.06	0.94
	3.20e-03	4.88e-03	0.0	218,219,0	0.16	2.48e-03	2.48e-03	218,211,211			1.00	0.04	0.96
601	0.02	0.03	0.0	218,219,0	0.08	2.24e-03	4.02e-03	218,240,231	0.21	218	0.85	0.06	0.94
	1.82e-03	3.07e-03	0.0	219,219,0	0.08	2.48e-03	2.48e-03	218,211,211			1.00	0.04	0.96
602	0.0	0.01	0.0	0,99,0	0.08	2.24e-03	3.35e-03	218,240,234	0.21	218	0.0	0.0	0.0
	1.82e-03	3.07e-03	0.0	219,219,0	0.08	2.48e-03	2.48e-03	218,211,211			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.21	0.28	0.0	0.35	2.48e-03	0.04	0.45

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
20	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.96	188.8	186	0.59	-116.6	187	0.81	-2.322e+04	7.977e+06	224

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
427	0.16	0.27	0.0	221,224,0	0.25	0.02	0.04	218,233,236	0.38	218	0.85	0.06	0.94
	0.02	0.02	0.0	230,231,0	0.25	0.01	0.01	218,233,233			1.00	0.04	0.96
428	0.16	0.27	0.0	221,224,0	0.22	0.02	0.04	218,233,236	0.36	218	0.85	0.06	0.94
	0.01	9.24e-03	0.0	230,231,0	0.22	9.54e-03	9.54e-03	218,233,233			1.00	0.04	0.96
429	0.13	0.24	0.0	221,224,0	0.26	6.88e-03	0.04	218,236,240	0.39	218	0.85	0.06	0.94
	0.02	0.02	0.0	230,231,0	0.26	0.01	0.01	218,233,233			1.00	0.04	0.96
430	0.09	0.20	0.0	221,224,0	0.27	5.68e-03	0.03	218,225,236	0.40	218	0.85	0.06	0.94
	0.02	0.02	0.0	230,224,0	0.27	7.65e-03	7.65e-03	218,233,233			1.00	0.04	0.96
443	0.05	0.17	0.0	221,224,0	0.29	7.48e-03	0.03	218,233,236	0.41	218	0.85	0.06	0.94
	0.14	0.11	0.0	224,221,0	0.29	5.46e-03	5.46e-03	218,236,236			1.00	0.04	0.96
444	0.02	0.14	0.0	237,100,0	0.29	7.71e-03	0.03	218,236,236	0.41	218	0.85	0.06	0.94
	0.24	0.18	0.0	224,221,0	0.29	5.03e-03	5.03e-03	218,236,236			1.00	0.04	0.96
457	7.97e-03	0.12	0.0	221,100,0	0.11	9.21e-03	0.02	218,236,236	0.26	218	0.85	0.06	0.94
	0.24	0.18	0.0	224,221,0	0.11	4.78e-03	4.78e-03	218,232,232			1.00	0.04	0.96
458	0.0	0.10	0.0	0,100,0	0.06	9.21e-03	0.02	218,236,236	0.19	218	0.0	0.0	0.0
	0.05	0.04	0.0	224,221,0	0.06	3.39e-03	3.39e-03	218,231,231			1.00	0.04	0.96
603	0.23	0.22	0.0	240,237,0	0.22	7.00e-03	0.04	218,233,237	0.36	218	0.85	0.06	0.94
	0.03	0.02	0.0	228,225,0	0.22	7.57e-03	7.57e-03	218,225,225			1.00	0.04	0.96
604	0.23	0.22	0.0	240,237,0	0.22	7.00e-03	0.04	218,233,237	0.36	218	0.85	0.06	0.94
	0.01	0.01	0.0	228,225,0	0.22	3.01e-03	3.01e-03	218,225,225			1.00	0.04	0.96
605	0.20	0.21	0.0	240,237,0	0.22	2.74e-03	0.03	218,233,237	0.36	218	0.85	0.06	0.94
	0.03	0.02	0.0	228,225,0	0.22	7.83e-03	7.83e-03	218,225,225			1.00	0.04	0.96
606	0.17	0.18	0.0	240,237,0	0.22	2.14e-03	0.03	218,228,237	0.36	218	0.85	0.06	0.94
	0.03	0.02	0.0	228,225,0	0.22	7.83e-03	7.83e-03	218,225,225			1.00	0.04	0.96
607	0.05	0.10	0.0	240,237,0	0.23	4.03e-03	0.02	218,236,233	0.37	218	0.85	0.06	0.94

	0.03	0.02	0.0 228,225,0	0.23	1.52e-03	1.52e-03	218,225,225			1.00	0.04	0.96
608	0.04	0.10	0.0 240,237,0	0.22	4.03e-03	0.01	218,236,233	0.36	218	0.85	0.06	0.94
	0.01	0.01	0.0 228,225,0	0.22	1.19e-03	1.19e-03	218,230,230			1.00	0.04	0.96
609	0.06	0.10	0.0 240,237,0	0.23	3.60e-03	0.02	218,236,233	0.37	218	0.85	0.06	0.94
	0.03	0.03	0.0 228,225,0	0.23	3.05e-03	3.05e-03	218,225,225			1.00	0.04	0.96
610	0.06	0.10	0.0 240,237,0	0.23	1.90e-03	0.02	218,236,233	0.37	218	0.85	0.06	0.94
	0.03	0.03	0.0 228,237,0	0.23	3.05e-03	3.05e-03	218,225,225			1.00	0.04	0.96
611	7.77e-03	0.07	0.0 240,100,0	0.23	8.45e-03	0.01	218,228,233	0.37	218	0.85	0.06	0.94
	0.03	0.02	0.0 228,225,0	0.23	6.95e-03	6.95e-03	218,225,225			1.00	0.04	0.96
612	3.15e-03	0.07	0.0 240,100,0	0.22	8.45e-03	0.01	218,228,233	0.36	218	0.85	0.06	0.94
	0.01	0.01	0.0 228,225,0	0.22	1.19e-03	1.19e-03	218,230,230			1.00	0.04	0.96
613	0.01	0.07	0.0 240,100,0	0.24	5.37e-03	0.01	218,236,228	0.37	218	0.85	0.06	0.94
	0.03	0.03	0.0 228,225,0	0.24	9.32e-03	9.32e-03	218,225,225			1.00	0.04	0.96
614	0.01	0.07	0.0 240,100,0	0.24	1.99e-03	0.01	218,225,233	0.37	218	0.85	0.06	0.94
	0.03	0.03	0.0 228,237,0	0.24	9.32e-03	9.32e-03	218,225,225			1.00	0.04	0.96
615	0.05	0.10	0.0 225,228,0	0.24	0.02	0.03	218,225,228	0.38	218	0.85	0.06	0.94
	0.03	0.02	0.0 230,231,0	0.24	0.02	0.02	218,225,225			1.00	0.04	0.96
616	0.04	0.10	0.0 225,228,0	0.23	0.02	0.03	218,225,228	0.37	218	0.85	0.06	0.94
	0.01	0.01	0.0 230,231,0	0.23	9.66e-03	9.66e-03	218,233,233			1.00	0.04	0.96
617	0.05	0.10	0.0 225,228,0	0.25	5.37e-03	0.02	218,236,228	0.38	218	0.85	0.06	0.94
	0.03	0.02	0.0 228,225,0	0.25	0.02	0.02	218,225,225			1.00	0.04	0.96
618	0.04	0.09	0.0 233,236,0	0.26	4.18e-03	0.02	218,225,228	0.39	218	0.85	0.06	0.94
	0.03	0.03	0.0 236,233,0	0.26	0.02	0.02	218,225,225			1.00	0.04	0.96
619	0.06	0.12	0.0 233,236,0	0.24	0.02	0.04	218,225,236	0.38	218	0.85	0.06	0.94
	0.03	0.02	0.0 230,231,0	0.24	0.02	0.02	218,225,225			1.00	0.04	0.96
620	0.05	0.12	0.0 233,236,0	0.23	0.02	0.04	218,225,236	0.37	218	0.85	0.06	0.94
	0.01	0.01	0.0 230,231,0	0.23	0.01	0.01	218,225,225			1.00	0.04	0.96
621	0.06	0.12	0.0 233,236,0	0.25	6.44e-03	0.03	218,236,236	0.38	218	0.85	0.06	0.94
	0.04	0.03	0.0 230,231,0	0.25	0.02	0.02	218,225,225			1.00	0.04	0.96
622	0.05	0.11	0.0 233,236,0	0.26	5.44e-03	0.02	218,225,236	0.39	218	0.85	0.06	0.94
	0.04	0.03	0.0 236,233,0	0.26	0.02	0.02	218,225,225			1.00	0.04	0.96
623	0.06	0.14	0.0 233,236,0	0.25	0.02	0.04	218,233,236	0.38	218	0.85	0.06	0.94
	0.03	0.02	0.0 230,231,0	0.25	0.02	0.02	218,225,225			1.00	0.04	0.96
624	0.05	0.13	0.0 233,236,0	0.22	0.02	0.04	218,233,236	0.36	218	0.85	0.06	0.94
	0.01	0.01	0.0 230,231,0	0.22	0.01	0.01	218,225,225			1.00	0.04	0.96
625	0.06	0.14	0.0 233,236,0	0.26	6.68e-03	0.03	218,236,236	0.39	218	0.85	0.06	0.94
	0.04	0.03	0.0 230,231,0	0.26	0.02	0.02	218,225,225			1.00	0.04	0.96
626	0.05	0.13	0.0 233,240,0	0.27	5.68e-03	0.03	218,225,236	0.40	218	0.85	0.06	0.94
	0.04	0.03	0.0 236,233,0	0.27	0.01	0.01	218,225,225			1.00	0.04	0.96
631	0.16	0.27	0.0 221,224,0	0.18	0.02	0.04	218,236,224	0.33	218	0.85	0.06	0.94
	0.02	0.02	0.0 230,231,0	0.18	0.01	0.01	218,233,233			1.00	0.04	0.96
632	0.16	0.27	0.0 221,224,0	0.18	0.02	0.04	218,236,224	0.33	218	0.85	0.06	0.94
	0.01	9.20e-03	0.0 230,231,0	0.18	5.63e-03	5.63e-03	218,225,225			1.00	0.04	0.96
633	0.13	0.24	0.0 221,224,0	0.15	6.88e-03	0.04	221,236,240	0.29	221	0.85	0.06	0.94
	0.02	0.02	0.0 230,231,0	0.15	0.01	0.01	221,233,233			1.00	0.04	0.96
634	0.09	0.20	0.0 221,224,0	0.13	4.86e-03	0.03	221,233,236	0.28	221	0.85	0.06	0.94
	0.02	0.02	0.0 221,224,0	0.13	7.65e-03	7.65e-03	221,233,233			1.00	0.04	0.96
635	0.15	0.16	0.0 240,237,0	0.22	2.77e-03	0.02	219,228,237	0.36	219	0.85	0.06	0.94
	0.03	0.02	0.0 228,237,0	0.22	7.13e-03	7.13e-03	219,225,225			1.00	0.04	0.96
636	0.12	0.14	0.0 240,237,0	0.19	2.94e-03	0.02	219,225,237	0.33	219	0.85	0.06	0.94
	0.03	0.02	0.0 240,237,0	0.19	5.57e-03	5.57e-03	219,225,225			1.00	0.04	0.96
637	0.06	0.10	0.0 240,237,0	0.23	2.52e-03	0.02	218,225,233	0.37	218	0.85	0.06	0.94
	0.04	0.03	0.0 224,221,0	0.23	3.05e-03	3.05e-03	218,225,225			1.00	0.04	0.96
638	0.06	0.10	0.0 240,237,0	0.20	3.62e-03	0.02	219,236,233	0.34	219	0.85	0.06	0.94
	0.04	0.04	0.0 224,221,0	0.20	2.39e-03	2.39e-03	219,225,225			1.00	0.04	0.96
639	0.01	0.07	0.0 240,100,0	0.24	3.87e-03	0.01	218,225,236	0.37	218	0.85	0.06	0.94
	0.05	0.04	0.0 224,221,0	0.24	9.21e-03	9.21e-03	218,228,228			1.00	0.04	0.96
640	8.62e-03	0.07	0.0 240,100,0	0.21	5.17e-03	0.01	219,236,236	0.35	219	0.85	0.06	0.94
	0.06	0.05	0.0 224,221,0	0.21	7.46e-03	7.46e-03	219,228,228			1.00	0.04	0.96
641	0.02	0.08	0.0 233,236,0	0.26	5.53e-03	0.02	218,225,228	0.39	218	0.85	0.06	0.94
	0.07	0.05	0.0 224,221,0	0.26	0.01	0.01	218,228,228			1.00	0.04	0.96
642	6.39e-03	0.07	0.0 233,100,0	0.24	5.53e-03	0.02	219,225,236	0.37	219	0.85	0.06	0.94
	0.08	0.07	0.0 224,221,0	0.24	0.01	0.01	219,228,228			1.00	0.04	0.96
643	0.04	0.10	0.0 233,236,0	0.26	6.42e-03	0.02	218,233,236	0.39	218	0.85	0.06	0.94
	0.09	0.07	0.0 224,221,0	0.26	0.01	0.01	218,228,228			1.00	0.04	0.96
644	0.02	0.08	0.0 233,236,0	0.24	6.43e-03	0.02	219,236,236	0.37	219	0.85	0.06	0.94
	0.12	0.09	0.0 224,221,0	0.24	0.01	0.01	219,228,228			1.00	0.04	0.96
645	0.04	0.12	0.0 233,240,0	0.29	6.61e-03	0.03	218,233,236	0.41	218	0.85	0.06	0.94
	0.11	0.09	0.0 224,221,0	0.29	6.26e-03	6.26e-03	218,225,225			1.00	0.04	0.96
646	0.02	0.10	0.0 233,100,0	0.29	7.71e-03	0.02	218,236,236	0.41	218	0.85	0.06	0.94
	0.16	0.13	0.0 224,221,0	0.29	5.07e-03	5.07e-03	218,228,228			1.00	0.04	0.96
649	0.05	0.17	0.0 221,224,0	0.25	7.48e-03	0.03	221,233,236	0.38	221	0.85	0.06	0.94
	0.14	0.11	0.0 224,221,0	0.25	5.46e-03	5.46e-03	221,236,236			1.00	0.04	0.96
650	1.86e-03	0.14	0.0 221,100,0	0.25	7.48e-03	0.03	221,233,236	0.38	221	0.85	0.06	0.94
	0.24	0.18	0.0 224,221,0	0.25	5.03e-03	5.03e-03	221,236,236			1.00	0.04	0.96
651	0.10	0.12	0.0 240,237,0	0.15	2.94e-03	0.02	219,225,237	0.30	219	0.85	0.06	0.94
	0.03	0.02	0.0 224,221,0	0.15	3.76e-03	3.76e-03	219,225,225			1.00	0.04	0.96

652	0.07	0.12	0.0	240,237,0	0.12	2.71e-03	0.02219,233,237	0.27	219	0.85	0.06	0.94
	8.24e-03	8.34e-03	0.0	220,217,0	0.12	2.17e-03	2.17e-03219,234,234			1.00	0.04	0.96
653	0.05	0.09	0.0	240,237,0	0.16	3.78e-03	0.01219,236,233	0.31	219	0.85	0.06	0.94
	0.04	0.04	0.0	224,221,0	0.16	1.90e-03	1.90e-03219,228,228			1.00	0.04	0.96
654	0.05	0.09	0.0	240,237,0	0.13	3.78e-03	0.01219,236,237	0.28	219	0.85	0.06	0.94
	0.02	0.01	0.0	224,221,0	0.13	1.12e-03	1.12e-03219,226,226			1.00	0.04	0.96
655	4.10e-03	0.07	0.0	240,100,0	0.16	5.63e-03	0.01219,236,236	0.31	219	0.85	0.06	0.94
	0.06	0.05	0.0	224,221,0	0.16	4.98e-03	4.98e-03219,228,228			1.00	0.04	0.96
656	0.0	0.07	0.0	0,100,0	0.13	5.63e-03	0.01219,236,233	0.28	219	0.0	0.0	0.0
	0.02	0.02	0.0	224,221,0	0.13	1.26e-03	1.26e-03219,225,225			1.00	0.04	0.96
657	0.0	0.07	0.0	0,100,0	0.17	9.04e-03	0.01219,236,236	0.31	219	0.0	0.0	0.0
	0.08	0.07	0.0	224,221,0	0.17	0.01	0.01219,228,228			1.00	0.04	0.96
658	0.0	0.07	0.0	0,100,0	0.13	9.04e-03	0.01219,236,236	0.28	219	0.0	0.0	0.0
	0.03	0.02	0.0	224,221,0	0.13	4.59e-03	4.59e-03219,228,228			1.00	0.04	0.96
659	0.0	0.07	0.0	0,100,0	0.17	0.01	0.02219,236,236	0.31	219	0.0	0.0	0.0
	0.12	0.09	0.0	224,221,0	0.17	0.01	0.01219,228,228			1.00	0.04	0.96
660	0.0	0.07	0.0	0,100,0	0.13	0.01	0.02219,236,236	0.27	219	0.0	0.0	0.0
	0.04	0.03	0.0	224,221,0	0.13	4.59e-03	4.59e-03219,228,228			1.00	0.04	0.96
661	7.97e-03	0.10	0.0	221,100,0	0.13	0.01	0.02219,236,236	0.27	219	0.85	0.06	0.94
	0.16	0.13	0.0	224,221,0	0.13	5.07e-03	5.07e-03219,228,228			1.00	0.04	0.96
662	0.0	0.09	0.0	0,100,0	0.08	0.01	0.02219,236,236	0.22	219	0.0	0.0	0.0
	0.05	0.04	0.0	224,221,0	0.08	3.71e-03	3.71e-03219,236,236			1.00	0.04	0.96
665	0.0	0.12	0.0	0,100,0	0.03	7.24e-03	0.02221,236,236	0.14	221	0.0	0.0	0.0
	0.24	0.18	0.0	224,221,0	0.03	4.78e-03	4.78e-03221,232,232			1.00	0.04	0.96
666	0.0	0.10	0.0	0,100,0	0.02	3.06e-03	0.01221,228,100	0.09	221	0.0	0.0	0.0
	0.05	0.04	0.0	224,221,0	0.02	2.30e-03	2.30e-03221,211,211			1.00	0.04	0.96
1367	0.23	0.22	0.0	240,237,0	0.21	7.00e-03	0.04218,233,237	0.35	218	0.85	0.06	0.94
	5.46e-03	5.99e-03	0.0	228,225,0	0.21	3.01e-03	3.01e-03218,225,225			1.00	0.04	0.96
1371	0.23	0.22	0.0	240,237,0	0.21	7.00e-03	0.04218,233,237	0.35	218	0.85	0.06	0.94
	0.01	0.01	0.0	228,225,0	0.21	7.57e-03	7.57e-03218,225,225			1.00	0.04	0.96
1372	0.20	0.21	0.0	240,237,0	0.20	1.82e-03	0.03218,233,237	0.34	218	0.85	0.06	0.94
	0.01	0.01	0.0	228,225,0	0.20	7.83e-03	7.83e-03218,225,225			1.00	0.04	0.96
1374	0.17	0.18	0.0	240,237,0	0.19	2.14e-03	0.03218,228,237	0.33	218	0.85	0.06	0.94
	0.01	0.01	0.0	228,225,0	0.19	7.83e-03	7.83e-03218,225,225			1.00	0.04	0.96
1375	0.15	0.16	0.0	240,237,0	0.17	2.77e-03	0.02218,228,237	0.32	218	0.85	0.06	0.94
	0.01	9.52e-03	0.0	228,225,0	0.17	7.13e-03	7.13e-03218,225,225			1.00	0.04	0.96
1377	0.12	0.14	0.0	240,237,0	0.14	2.94e-03	0.02218,225,237	0.29	218	0.85	0.06	0.94
	9.95e-03	9.23e-03	0.0	240,237,0	0.14	5.57e-03	5.57e-03218,225,225			1.00	0.04	0.96
1378	0.10	0.12	0.0	240,237,0	0.11	2.94e-03	0.02219,225,237	0.26	219	0.85	0.06	0.94
	7.39e-03	8.47e-03	0.0	224,221,0	0.11	3.76e-03	3.76e-03219,225,225			1.00	0.04	0.96
1380	0.07	0.12	0.0	240,237,0	0.11	2.37e-03	0.02219,233,237	0.25	219	0.85	0.06	0.94
	4.75e-03	6.04e-03	0.0	224,221,0	0.11	2.85e-03	2.85e-03219,225,225			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.24	0.27	0.0	0.29	0.02	0.04	0.41

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
21	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.37	4.2	180	0.12	-1.3	177	0.49	-111.5	8.723e+04	212

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1564	0.06	0.05	0.0	212,209,0	5.24e-03	0.01	0.02212,226,225		0.06	212	0.87	0.06	0.94
	0.01	8.65e-03	0.0	230,231,0	5.24e-03	3.74e-04	3.74e-04212,213,213				1.00	0.04	0.96
1565	0.06	0.06	0.0	212,212,0	5.53e-03	0.01	0.02212,226,228		0.06	212	0.87	0.06	0.94
	0.01	9.66e-03	0.0	228,225,0	5.52e-03	4.43e-04	4.43e-04212,225,225				1.00	0.04	0.96
1567	0.05	0.06	0.0	209,212,0	5.53e-03	9.30e-03	0.02212,230,228		0.06	212	0.87	0.06	0.94
	0.01	9.66e-03	0.0	228,225,0	5.52e-03	4.43e-04	4.43e-04212,225,225				1.00	0.04	0.96
2943	0.06	0.05	0.0	212,209,0	0.03	0.01	0.02212,226,229		0.14	212	0.87	0.06	0.94
	0.01	8.65e-03	0.0	230,231,0	0.03	3.74e-04	3.74e-04212,213,213				1.00	0.04	0.96
2944	0.06	0.06	0.0	212,212,0	0.03	0.01	0.02212,226,232		0.14	212	0.87	0.06	0.94
	0.01	9.66e-03	0.0	228,225,0	0.03	4.43e-04	4.43e-04212,225,225				1.00	0.04	0.96
2945	0.05	0.04	0.0	228,225,0	0.03	7.79e-03	0.02212,228,229		0.14	212	0.87	0.06	0.94
	5.07e-03	3.86e-03	0.0	210,211,0	0.03	1.08e-04	1.08e-04212,226,226				1.00	0.04	0.96
2946	0.05	0.05	0.0	228,228,0	0.03	7.79e-03	0.02212,228,232		0.14	212	0.87	0.06	0.94
	5.69e-03	4.55e-03	0.0	212,209,0	0.03	1.18e-04	1.18e-04212,235,235				1.00	0.04	0.96
2947	0.05	0.05	0.0	229,232,0	0.03	5.33e-03	0.02212,228,232		0.13	212	0.87	0.06	0.94
	4.15e-03	2.87e-03	0.0	212,209,0	0.03	6.46e-04	6.46e-04212,235,235				1.00	0.04	0.96

2948	0.05	0.05	0.0 232,232,0	0.03	5.33e-03	0.02212,228,232	0.13	212	0.87	0.06	0.94
	4.15e-03	2.87e-03	0.0 212,209,0	0.03	6.81e-04	6.81e-04212,226,226			1.00	0.04	0.96
2949	0.05	0.06	0.0 209,212,0	0.03	9.30e-03	0.02212,230,232	0.14	212	0.87	0.06	0.94
	0.01	9.66e-03	0.0 228,225,0	0.03	4.43e-04	4.43e-04212,225,225			1.00	0.04	0.96
2950	0.04	0.05	0.0 225,228,0	0.03	7.64e-03	0.02212,226,232	0.14	212	0.87	0.06	0.94
	5.69e-03	4.55e-03	0.0 212,209,0	0.03	1.18e-04	1.18e-04212,235,235			1.00	0.04	0.96
2951	0.05	0.04	0.0 232,229,0	0.03	5.08e-03	0.02212,234,226	0.13	212	0.87	0.06	0.94
	2.17e-03	1.04e-03	0.0 229,232,0	0.03	6.81e-04	6.81e-04212,226,226			1.00	0.04	0.96
2952	0.08	0.07	0.0 225,228,0	0.03	2.85e-03	0.02212,226,232	0.13	212	0.87	0.06	0.94
	0.02	0.01	0.0 209,212,0	0.03	3.71e-03	3.71e-03212,226,226			1.00	0.04	0.96
2953	0.09	0.07	0.0 228,228,0	0.03	2.85e-03	0.02212,226,232	0.13	212	0.87	0.06	0.94
	0.02	0.01	0.0 209,212,0	0.03	3.71e-03	3.71e-03212,226,226			1.00	0.04	0.96
2954	0.08	0.07	0.0 225,228,0	0.03	0.01	0.02212,226,232	0.13	212	0.87	0.06	0.94
	0.03	0.02	0.0 214,215,0	0.03	3.82e-03	3.82e-03212,226,226			1.00	0.04	0.96
2955	0.09	0.07	0.0 228,228,0	0.03	0.01	0.02212,226,232	0.13	212	0.87	0.06	0.94
	0.03	0.02	0.0 214,215,0	0.03	3.82e-03	3.82e-03212,226,226			1.00	0.04	0.96
2956	0.09	0.07	0.0 228,209,0	0.03	2.60e-03	0.02212,234,225	0.13	212	0.87	0.06	0.94
	0.01	4.62e-03	0.0 232,229,0	0.03	3.51e-03	3.51e-03212,226,226			1.00	0.04	0.96
2957	0.09	0.07	0.0 228,209,0	0.03	0.01	0.02212,232,225	0.13	212	0.87	0.06	0.94
	0.02	0.01	0.0 226,227,0	0.03	3.67e-03	3.67e-03212,235,235			1.00	0.04	0.96
2958	0.05	0.05	0.0 225,228,0	5.91e-03	0.02	0.02212,226,232	0.06	212	0.87	0.06	0.94
	0.03	0.02	0.0 214,215,0	5.91e-03	3.82e-03	3.82e-03212,226,226			1.00	0.04	0.96
2959	0.06	0.05	0.0 228,228,0	6.17e-03	0.02	0.02212,226,232	0.06	212	0.87	0.06	0.94
	0.03	0.02	0.0 214,215,0	6.17e-03	3.82e-03	3.82e-03212,226,226			1.00	0.04	0.96
2960	0.02	0.02	0.0 229,232,0	7.15e-04	0.02	0.02209,226,226	0.02	209	0.87	0.06	0.94
	0.02	0.01	0.0 234,235,0	7.15e-04	4.98e-04	4.98e-04209,232,232			1.00	0.04	0.96
2961	0.02	0.02	0.0 228,232,0	7.15e-04	0.02	0.02209,226,226	0.02	209	0.87	0.06	0.94
	0.03	0.02	0.0 214,215,0	7.15e-04	8.95e-04	8.95e-04209,232,232			1.00	0.04	0.96
2962	0.06	0.04	0.0 228,225,0	6.17e-03	0.01	0.02212,227,225	0.06	212	0.87	0.06	0.94
	0.03	0.02	0.0 214,215,0	6.17e-03	3.67e-03	3.67e-03212,235,235			1.00	0.04	0.96
2963	0.02	0.01	0.0 228,225,0	5.32e-04	0.01	0.02228,227,225	0.02	228	0.87	0.06	0.94
	0.03	0.02	0.0 214,215,0	5.10e-04	8.95e-04	8.95e-04228,232,232			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.09	0.07	0.0	0.03	0.02	0.02	0.14

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
22	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.46	-102.0	187	0.41	-91.6	191	0.23	-3715.5	-1.334e+06	209

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1467	0.01	0.02	0.0 230,231,0		0.01	5.83e-03	7.81e-03219,226,227		0.09	219	0.87	0.06	0.94
	2.61e-03	3.28e-03	0.0 229,44,0		0.01	1.96e-03	1.96e-03219,233,233				1.00	0.04	0.96
1569	1.45e-03	0.01	0.0 227,105,0		0.03	7.70e-03	0.01219,226,226		0.13	219	0.87	0.06	0.94
	4.42e-03	3.33e-03	0.0 216,213,0		0.03	6.27e-04	6.27e-04219,233,233				1.00	0.04	0.96
1574	0.01	0.02	0.0 228,225,0		0.02	9.00e-03	0.01219,225,225		0.12	219	0.87	0.06	0.94
	6.60e-03	5.11e-03	0.0 227,209,0		0.02	6.67e-04	6.67e-04219,230,230				1.00	0.04	0.96
1575	3.69e-03	0.01	0.0 229,105,0		0.03	7.70e-03	0.01219,226,226		0.13	219	0.87	0.06	0.94
	5.08e-03	3.79e-03	0.0 236,233,0		0.03	6.27e-04	6.27e-04219,233,233				1.00	0.04	0.96
1577	7.58e-03	0.01	0.0 237,240,0		0.03	7.53e-03	0.01219,227,226		0.13	219	0.87	0.06	0.94
	6.42e-03	4.73e-03	0.0 234,235,0		0.03	4.16e-04	4.16e-04219,236,236				1.00	0.04	0.96
1580	0.02	0.02	0.0 237,240,0		0.03	8.07e-03	0.01219,235,234		0.12	219	0.87	0.06	0.94
	0.02	0.01	0.0 234,235,0		0.03	1.60e-03	1.60e-03219,239,239				1.00	0.04	0.96
1581	0.01	0.02	0.0 237,240,0		0.03	7.89e-03	0.01219,235,234		0.13	219	0.87	0.06	0.94
	9.70e-03	7.08e-03	0.0 234,235,0		0.03	4.16e-04	4.16e-04219,236,236				1.00	0.04	0.96
1583	0.02	0.03	0.0 237,224,0		0.02	8.07e-03	0.01223,235,234		0.11	223	0.87	0.06	0.94
	0.03	0.02	0.0 234,235,0		0.02	3.09e-03	3.09e-03223,235,235				1.00	0.04	0.96
1586	0.02	0.03	0.0 234,224,0		0.02	7.11e-03	9.95e-03223,219,215		0.10	223	0.87	0.06	0.94
	0.04	0.03	0.0 234,235,0		0.02	5.19e-03	5.19e-03223,235,235				1.00	0.04	0.96
1591	9.28e-03	0.02	0.0 228,225,0		0.03	9.00e-03	0.01219,225,225		0.13	219	0.87	0.06	0.94
	7.83e-03	5.98e-03	0.0 211,210,0		0.03	6.35e-04	6.35e-04219,227,227				1.00	0.04	0.96
1594	6.26e-03	0.01	0.0 228,225,0		0.03	8.28e-03	0.01219,225,225		0.13	219	0.87	0.06	0.94
	7.83e-03	5.98e-03	0.0 211,210,0		0.03	8.94e-04	8.94e-04219,227,227				1.00	0.04	0.96
1596	3.27e-03	0.01	0.0 228,105,0		0.03	7.91e-03	0.01219,231,225		0.13	219	0.87	0.06	0.94
	4.24e-03	4.09e-03	0.0 211,210,0		0.03	8.94e-04	8.94e-04219,227,227				1.00	0.04	0.96
1606	0.01	0.02	0.0 230,231,0		0.02	7.29e-03	0.01219,225,225		0.11	219	0.87	0.06	0.94
	6.60e-03	5.11e-03	0.0 227,209,0		0.02	1.96e-03	1.96e-03219,233,233				1.00	0.04	0.96

2045	0.02	0.02	0.0 234,235,0	2.69e-03	7.11e-03	9.95e-03	235,219,215	0.04	235	0.87	0.06	0.94
	0.04	0.03	0.0 234,235,0	2.68e-03	5.19e-03	5.19e-03	235,235,235			1.00	0.04	0.96
2407	0.04	0.04	0.0 240,237,0	8.73e-03	6.46e-03	0.01	235,235,235	0.07	235	0.87	0.06	0.94
	4.59e-03	3.56e-03	0.0 228,225,0	8.71e-03	4.12e-03	4.12e-03	235,233,233			1.00	0.04	0.96
2411	0.03	0.03	0.0 240,237,0	9.06e-03	0.01	0.02	215,235,235	0.07	215	0.87	0.06	0.94
	8.02e-03	9.27e-03	0.0 234,235,0	9.05e-03	4.09e-03	4.09e-03	215,231,231			1.00	0.04	0.96
2412	0.03	0.03	0.0 240,237,0	4.97e-03	0.01	0.02	215,235,235	0.05	215	0.87	0.06	0.94
	0.03	0.02	0.0 227,226,0	4.97e-03	2.85e-03	2.85e-03	215,240,240			1.00	0.04	0.96
2416	0.02	0.03	0.0 228,225,0	0.02	7.29e-03	0.01	219,225,225	0.11	219	0.87	0.06	0.94
	9.39e-03	7.96e-03	0.0 225,225,0	0.02	4.77e-03	4.77e-03	219,225,225			1.00	0.04	0.96
2417	0.03	0.03	0.0 228,225,0	0.02	5.89e-03	0.01	219,225,225	0.10	219	0.87	0.06	0.94
	0.01	8.49e-03	0.0 230,231,0	0.02	5.53e-03	5.53e-03	219,225,225			1.00	0.04	0.96
2418	0.03	0.03	0.0 228,225,0	0.02	9.94e-03	0.02	223,225,225	0.10	223	0.87	0.06	0.94
	0.01	8.49e-03	0.0 230,231,0	0.02	5.53e-03	5.53e-03	223,225,225			1.00	0.04	0.96
2419	0.02	0.03	0.0 228,225,0	0.02	9.00e-03	0.01	219,225,225	0.12	219	0.87	0.06	0.94
	9.39e-03	7.96e-03	0.0 225,225,0	0.02	2.12e-03	2.12e-03	219,225,225			1.00	0.04	0.96
2420	0.03	0.03	0.0 228,225,0	0.02	6.29e-03	0.01	219,225,225	0.11	219	0.87	0.06	0.94
	0.01	8.49e-03	0.0 230,231,0	0.02	2.32e-03	2.32e-03	219,233,233			1.00	0.04	0.96
2421	0.03	0.03	0.0 228,225,0	0.02	4.52e-03	0.01	219,225,225	0.11	219	0.87	0.06	0.94
	0.01	8.49e-03	0.0 230,231,0	0.02	3.27e-03	3.27e-03	219,233,233			1.00	0.04	0.96
2422	0.02	0.02	0.0 228,225,0	0.03	9.00e-03	0.01	219,225,225	0.13	219	0.87	0.06	0.94
	7.83e-03	5.98e-03	0.0 211,210,0	0.03	2.12e-03	2.12e-03	219,225,225			1.00	0.04	0.96
2423	0.02	0.03	0.0 228,225,0	0.03	6.29e-03	0.01	219,225,225	0.12	219	0.87	0.06	0.94
	7.51e-03	5.77e-03	0.0 226,44,0	0.03	2.32e-03	2.32e-03	219,225,225			1.00	0.04	0.96
2424	0.02	0.03	0.0 228,225,0	0.02	2.86e-03	0.01	219,225,225	0.12	219	0.87	0.06	0.94
	7.51e-03	7.34e-03	0.0 226,44,0	0.02	2.32e-03	2.32e-03	219,225,225			1.00	0.04	0.96
2425	0.02	0.02	0.0 228,225,0	0.03	8.28e-03	0.01	219,225,225	0.13	219	0.87	0.06	0.94
	7.83e-03	5.98e-03	0.0 211,210,0	0.03	1.15e-03	1.15e-03	219,225,225			1.00	0.04	0.96
2426	0.02	0.02	0.0 228,225,0	0.03	5.82e-03	0.01	219,225,225	0.13	219	0.87	0.06	0.94
	4.22e-03	5.47e-03	0.0 230,44,0	0.03	1.15e-03	1.15e-03	219,225,225			1.00	0.04	0.96
2427	0.02	0.02	0.0 228,225,0	0.03	2.57e-03	0.01	219,226,225	0.13	219	0.87	0.06	0.94
	5.13e-03	6.11e-03	0.0 18,44,0	0.03	8.47e-04	8.47e-04	219,233,233			1.00	0.04	0.96
2428	0.01	0.02	0.0 232,229,0	0.03	7.91e-03	0.01	219,231,226	0.13	219	0.87	0.06	0.94
	4.24e-03	4.09e-03	0.0 211,210,0	0.03	8.94e-04	8.94e-04	219,227,227			1.00	0.04	0.96
2429	0.02	0.02	0.0 228,225,0	0.03	5.46e-03	0.01	219,226,226	0.13	219	0.87	0.06	0.94
	4.13e-03	4.68e-03	0.0 234,44,0	0.03	6.28e-04	6.28e-04	219,233,233			1.00	0.04	0.96
2430	0.02	0.02	0.0 226,227,0	0.03	2.66e-03	9.92e-03	219,226,226	0.13	219	0.87	0.06	0.94
	4.03e-03	4.85e-03	0.0 238,44,0	0.03	8.08e-04	8.08e-04	219,233,233			1.00	0.04	0.96
2431	0.01	0.02	0.0 227,226,0	0.03	7.70e-03	0.01	219,226,226	0.13	219	0.87	0.06	0.94
	6.36e-03	4.46e-03	0.0 238,239,0	0.03	6.27e-04	6.27e-04	219,233,233			1.00	0.04	0.96
2472	0.02	0.02	0.0 227,226,0	0.03	5.46e-03	0.01	219,226,226	0.13	219	0.87	0.06	0.94
	6.36e-03	4.46e-03	0.0 238,239,0	0.03	6.28e-04	6.28e-04	219,233,233			1.00	0.04	0.96
2475	0.02	0.02	0.0 227,226,0	0.03	2.66e-03	9.92e-03	219,226,226	0.13	219	0.87	0.06	0.94
	5.26e-03	3.73e-03	0.0 234,44,0	0.03	6.28e-04	6.28e-04	219,233,233			1.00	0.04	0.96
2476	0.01	0.02	0.0 227,226,0	0.03	7.70e-03	0.01	219,226,226	0.13	219	0.87	0.06	0.94
	8.92e-03	6.37e-03	0.0 234,235,0	0.03	6.27e-04	6.27e-04	219,233,233			1.00	0.04	0.96
2483	0.02	0.02	0.0 227,226,0	0.03	5.20e-03	0.01	219,226,226	0.13	219	0.87	0.06	0.94
	8.92e-03	6.37e-03	0.0 234,235,0	0.03	4.43e-04	4.43e-04	219,233,233			1.00	0.04	0.96
2484	0.02	0.02	0.0 227,226,0	0.03	2.63e-03	9.74e-03	219,226,226	0.13	219	0.87	0.06	0.94
	6.39e-03	4.51e-03	0.0 238,239,0	0.03	4.43e-04	4.43e-04	219,233,233			1.00	0.04	0.96
2485	0.01	0.02	0.0 229,232,0	0.03	7.53e-03	0.01	219,227,226	0.13	219	0.87	0.06	0.94
	0.01	8.51e-03	0.0 234,235,0	0.03	4.16e-04	4.16e-04	219,236,236			1.00	0.04	0.96
2487	0.02	0.02	0.0 227,226,0	0.03	5.13e-03	0.01	219,226,226	0.13	219	0.87	0.06	0.94
	0.01	8.51e-03	0.0 234,235,0	0.03	4.35e-04	4.35e-04	219,235,235			1.00	0.04	0.96
2488	0.02	0.02	0.0 227,226,0	0.03	2.57e-03	9.61e-03	219,226,226	0.13	219	0.87	0.06	0.94
	7.65e-03	5.51e-03	0.0 234,235,0	0.03	4.35e-04	4.35e-04	219,235,235			1.00	0.04	0.96
2489	0.02	0.02	0.0 237,240,0	0.03	7.89e-03	0.01	219,235,234	0.13	219	0.87	0.06	0.94
	0.02	0.01	0.0 234,235,0	0.03	1.03e-03	1.03e-03	219,235,235			1.00	0.04	0.96
2490	0.02	0.02	0.0 237,240,0	0.03	5.08e-03	0.01	219,226,234	0.13	219	0.87	0.06	0.94
	0.02	0.01	0.0 234,235,0	0.03	1.04e-03	1.04e-03	219,235,235			1.00	0.04	0.96
2495	0.04	0.04	0.0 240,237,0	9.06e-03	0.01	0.02	215,240,237	0.07	215	0.87	0.06	0.94
	6.71e-03	6.79e-03	0.0 231,239,0	9.05e-03	4.12e-03	4.12e-03	215,233,233			1.00	0.04	0.96
2502	0.02	0.02	0.0 237,240,0	0.03	2.24e-03	9.31e-03	219,226,226	0.13	219	0.87	0.06	0.94
	9.93e-03	7.29e-03	0.0 234,235,0	0.03	1.04e-03	1.04e-03	219,235,235			1.00	0.04	0.96
2503	0.02	0.03	0.0 237,240,0	0.03	8.07e-03	0.01	223,235,234	0.13	223	0.87	0.06	0.94
	0.03	0.02	0.0 234,235,0	0.03	2.54e-03	2.54e-03	223,235,235			1.00	0.04	0.96
2504	0.03	0.03	0.0 233,236,0	0.03	5.04e-03	0.01	223,235,234	0.13	223	0.87	0.06	0.94
	0.03	0.02	0.0 234,235,0	0.03	2.54e-03	2.54e-03	223,235,235			1.00	0.04	0.96
2505	0.03	0.03	0.0 233,236,0	0.03	2.10e-03	9.59e-03	223,236,236	0.13	223	0.87	0.06	0.94
	0.01	9.44e-03	0.0 238,239,0	0.03	1.59e-03	1.59e-03	223,235,235			1.00	0.04	0.96
2506	0.02	0.03	0.0 237,224,0	0.03	8.07e-03	0.01	223,235,234	0.13	223	0.87	0.06	0.94
	0.04	0.03	0.0 234,235,0	0.03	3.09e-03	3.09e-03	223,235,235			1.00	0.04	0.96
2507	0.03	0.03	0.0 233,236,0	0.03	4.44e-03	0.01	223,234,240	0.13	223	0.87	0.06	0.94
	0.04	0.03	0.0 234,235,0	0.03	2.54e-03	2.54e-03	223,235,235			1.00	0.04	0.96
2508	0.03	0.03	0.0 233,236,0	0.03	3.42e-03	9.59e-03	223,235,236	0.12	223	0.87	0.06	0.94
	0.01	9.46e-03	0.0 234,235,0	0.03	1.59e-03	1.59e-03	223,235,235			1.00	0.04	0.96
2509	0.02	0.03	0.0 234,224,0	0.02	8.42e-03	0.01	215,235,235	0.12	215	0.87	0.06	0.94

	0.04	0.03	0.0 234,235,0	0.02	8.16e-03	8.16e-03215,239,239			1.00	0.04	0.96
2510	0.02	0.03	0.0 240,216,0	0.02	8.42e-03	0.01215,235,235	0.12	215	0.87	0.06	0.94
	0.04	0.03	0.0 234,235,0	0.02	8.16e-03	8.16e-03215,239,239			1.00	0.04	0.96
2511	0.03	0.03	0.0 236,233,0	0.02	6.46e-03	0.01215,235,239	0.11	215	0.87	0.06	0.94
	0.01	9.46e-03	0.0 234,235,0	0.02	3.69e-03	3.69e-03215,235,235			1.00	0.04	0.96
2533	0.04	0.04	0.0 228,225,0	0.02	0.01	0.03223,225,225	0.10	223	0.87	0.06	0.94
	0.02	0.01	0.0 233,233,0	0.02	0.01	0.01223,233,233			1.00	0.04	0.96
2534	0.04	0.04	0.0 228,225,0	0.01	0.01	0.03223,225,225	0.09	223	0.87	0.06	0.94
	0.03	0.02	0.0 233,233,0	0.01	0.01	0.01223,233,233			1.00	0.04	0.96
2535	0.03	0.03	0.0 228,225,0	0.02	3.94e-03	0.01219,225,225	0.11	219	0.87	0.06	0.94
	0.02	0.01	0.0 233,233,0	0.02	3.27e-03	3.27e-03219,233,233			1.00	0.04	0.96
2536	0.03	0.03	0.0 228,225,0	0.02	6.14e-03	0.01219,225,225	0.11	219	0.87	0.06	0.94
	0.03	0.02	0.0 233,233,0	0.02	3.86e-03	3.86e-03219,233,233			1.00	0.04	0.96
2537	0.02	0.03	0.0 228,225,0	0.02	3.94e-03	0.01219,225,225	0.12	219	0.87	0.06	0.94
	0.01	9.03e-03	0.0 233,233,0	0.02	2.67e-03	2.67e-03219,233,233			1.00	0.04	0.96
2538	0.02	0.02	0.0 228,225,0	0.02	6.14e-03	0.01219,225,225	0.11	219	0.87	0.06	0.94
	0.01	9.16e-03	0.0 233,233,0	0.02	3.86e-03	3.86e-03219,233,233			1.00	0.04	0.96
2539	0.02	0.02	0.0 232,229,0	0.03	3.51e-03	0.01219,225,225	0.12	219	0.87	0.06	0.94
	5.58e-03	6.11e-03	0.0 233,44,0	0.03	1.76e-03	1.76e-03219,233,233			1.00	0.04	0.96
2540	0.02	0.02	0.0 228,225,0	0.03	5.68e-03	0.01219,226,226	0.12	219	0.87	0.06	0.94
	6.22e-03	5.90e-03	0.0 235,44,0	0.03	1.96e-03	1.96e-03219,233,233			1.00	0.04	0.96
2541	0.02	0.02	0.0 226,227,0	0.03	2.85e-03	9.96e-03219,225,227	0.13	219	0.87	0.06	0.94
	3.76e-03	4.85e-03	0.0 18,44,0	0.03	9.19e-04	9.19e-04219,233,233			1.00	0.04	0.96
2543	0.02	0.02	0.0 226,227,0	0.03	5.68e-03	0.01219,226,226	0.12	219	0.87	0.06	0.94
	4.75e-03	4.41e-03	0.0 211,44,0	0.03	9.19e-04	9.19e-04219,233,233			1.00	0.04	0.96
2544	0.02	0.02	0.0 227,226,0	0.03	2.83e-03	9.94e-03219,226,226	0.13	219	0.87	0.06	0.94
	2.96e-03	3.73e-03	0.0 234,44,0	0.03	6.14e-04	6.14e-04219,233,233			1.00	0.04	0.96
2545	0.02	0.02	0.0 227,227,0	0.03	5.60e-03	0.01219,226,226	0.13	219	0.87	0.06	0.94
	5.63e-03	3.95e-03	0.0 211,210,0	0.03	5.02e-04	5.02e-04219,233,233			1.00	0.04	0.96
2546	0.02	0.02	0.0 227,226,0	0.03	2.71e-03	9.75e-03219,226,226	0.13	219	0.87	0.06	0.94
	3.86e-03	2.93e-03	0.0 236,42,0	0.03	4.42e-04	4.42e-04219,233,233			1.00	0.04	0.96
2547	0.02	0.02	0.0 227,226,0	0.03	5.48e-03	0.01219,226,226	0.13	219	0.87	0.06	0.94
	6.39e-03	4.30e-03	0.0 211,214,0	0.03	3.62e-04	3.62e-04219,233,233			1.00	0.04	0.96
2548	0.02	0.02	0.0 227,226,0	0.03	2.75e-03	9.61e-03219,227,226	0.13	219	0.87	0.06	0.94
	4.79e-03	3.57e-03	0.0 240,237,0	0.03	3.68e-04	3.68e-04219,235,235			1.00	0.04	0.96
2549	0.02	0.02	0.0 229,226,0	0.03	5.38e-03	0.01219,226,226	0.13	219	0.87	0.06	0.94
	7.89e-03	5.31e-03	0.0 215,214,0	0.03	3.22e-04	3.22e-04219,235,235			1.00	0.04	0.96
2550	0.02	0.02	0.0 237,240,0	0.03	2.81e-03	9.06e-03223,227,226	0.13	223	0.87	0.06	0.94
	5.75e-03	4.23e-03	0.0 240,235,0	0.03	5.54e-04	5.54e-04223,231,231			1.00	0.04	0.96
2551	0.02	0.02	0.0 233,236,0	0.03	5.23e-03	9.86e-03223,226,226	0.13	223	0.87	0.06	0.94
	8.64e-03	6.02e-03	0.0 215,214,0	0.03	7.44e-04	7.44e-04223,231,231			1.00	0.04	0.96
2552	0.03	0.03	0.0 233,236,0	0.03	2.81e-03	9.17e-03223,227,236	0.13	223	0.87	0.06	0.94
	6.22e-03	4.45e-03	0.0 240,237,0	0.03	1.51e-03	1.51e-03223,227,227			1.00	0.04	0.96
2553	0.02	0.02	0.0 233,236,0	0.03	4.66e-03	9.51e-03223,232,236	0.12	223	0.87	0.06	0.94
	0.01	6.87e-03	0.0 211,210,0	0.03	1.93e-03	1.93e-03223,227,227			1.00	0.04	0.96
2567	0.02	0.02	0.0 234,235,0	0.02	8.42e-03	0.01235,235,235	0.09	235	0.87	0.06	0.94
	0.04	0.03	0.0 234,235,0	0.02	8.16e-03	8.16e-03235,239,239			1.00	0.04	0.96
2568	0.02	0.03	0.0 240,235,0	0.02	8.42e-03	0.01235,235,235	0.09	235	0.87	0.06	0.94
	0.04	0.03	0.0 234,235,0	0.02	8.16e-03	8.16e-03235,239,239			1.00	0.04	0.96
2569	0.03	0.03	0.0 236,233,0	9.77e-03	6.46e-03	0.01235,235,239	0.08	235	0.87	0.06	0.94
	8.43e-03	5.48e-03	0.0 235,234,0	9.76e-03	3.69e-03	3.69e-03235,235,235			1.00	0.04	0.96
2831	0.02	0.02	0.0 228,225,0	0.01	5.83e-03	9.15e-03219,226,225	0.09	219	0.87	0.06	0.94
	6.13e-03	6.06e-03	0.0 225,44,0	0.01	4.77e-03	4.77e-03219,225,225			1.00	0.04	0.96
2833	0.02	0.03	0.0 228,225,0	0.01	5.66e-03	0.01219,225,225	0.09	219	0.87	0.06	0.94
	7.34e-03	6.06e-03	0.0 230,44,0	0.01	5.53e-03	5.53e-03219,225,225			1.00	0.04	0.96
2835	0.03	0.03	0.0 228,225,0	0.01	9.94e-03	0.02219,225,225	0.09	219	0.87	0.06	0.94
	7.34e-03	6.92e-03	0.0 230,44,0	0.01	5.53e-03	5.53e-03219,225,225			1.00	0.04	0.96
2849	0.04	0.04	0.0 228,225,0	0.01	0.01	0.03223,225,225	0.09	223	0.87	0.06	0.94
	0.01	8.88e-03	0.0 233,44,0	0.01	0.01	0.01223,233,233			1.00	0.04	0.96
2851	0.04	0.04	0.0 228,225,0	0.01	0.01	0.03223,225,225	0.09	223	0.87	0.06	0.94
	0.02	0.01	0.0 233,233,0	0.01	0.01	0.01223,233,233			1.00	0.04	0.96
2861	0.03	0.03	0.0 228,225,0	0.01	0.02	0.03223,225,225	0.09	223	0.87	0.06	0.94
	0.02	0.01	0.0 233,233,0	0.01	0.01	0.01223,233,233			1.00	0.04	0.96
2863	0.01	0.02	0.0 228,225,0	0.01	0.02	0.02223,225,225	0.08	223	0.87	0.06	0.94
	0.02	0.01	0.0 225,228,0	0.01	1.39e-03	1.39e-03223,233,233			1.00	0.04	0.96
2965	2.35e-03	9.96e-03	0.0 232,107,0	0.02	8.34e-03	0.01219,226,226	0.12	219	0.87	0.06	0.94
	8.36e-03	6.17e-03	0.0 211,210,0	0.02	7.42e-04	7.42e-04219,210,210			1.00	0.04	0.96
2966	0.01	0.01	0.0 227,226,0	0.03	8.34e-03	0.01219,226,226	0.12	219	0.87	0.06	0.94
	6.40e-03	4.65e-03	0.0 211,210,0	0.03	3.25e-04	3.25e-04219,233,233			1.00	0.04	0.96
2968	0.02	0.02	0.0 228,225,0	0.02	0.01	0.02219,225,225	0.10	219	0.87	0.06	0.94
	0.03	0.02	0.0 233,233,0	0.02	3.86e-03	3.86e-03219,233,233			1.00	0.04	0.96
2970	5.10e-03	9.74e-03	0.0 228,107,0	0.02	0.01	0.02219,225,225	0.10	219	0.87	0.06	0.94
	0.01	9.25e-03	0.0 239,238,0	0.02	2.41e-03	2.41e-03219,233,233			1.00	0.04	0.96
2971	2.50e-03	9.65e-03	0.0 227,105,0	0.02	8.34e-03	0.01219,226,226	0.12	219	0.87	0.06	0.94
	6.40e-03	4.65e-03	0.0 211,210,0	0.02	3.25e-04	3.25e-04219,233,233			1.00	0.04	0.96
2972	0.01	0.01	0.0 229,226,0	0.03	8.13e-03	0.01219,226,226	0.12	219	0.87	0.06	0.94
	8.01e-03	5.39e-03	0.0 211,210,0	0.03	4.91e-04	4.91e-04219,213,213			1.00	0.04	0.96

2973	3.00e-03	8.84e-03	0.0	229,105,0	0.02	8.13e-03	0.01219,226,226	0.12	219	0.87	0.06	0.94
	8.01e-03	5.39e-03	0.0	211,210,0	0.02	4.91e-04	4.91e-04219,213,213			1.00	0.04	0.96
2974	0.01	0.02	0.0	233,236,0	0.03	7.38e-03	9.86e-03223,236,226	0.12	223	0.87	0.06	0.94
	9.91e-03	6.62e-03	0.0	211,210,0	0.03	7.44e-04	7.44e-04223,231,231			1.00	0.04	0.96
2975	0.02	0.02	0.0	233,236,0	0.02	7.38e-03	9.51e-03223,236,236	0.12	223	0.87	0.06	0.94
	0.01	7.48e-03	0.0	211,210,0	0.02	1.93e-03	1.93e-03223,227,227			1.00	0.04	0.96
2976	7.57e-03	8.54e-03	0.0	233,236,0	0.02	7.38e-03	9.42e-03215,236,236	0.11	215	0.87	0.06	0.94
	0.01	7.48e-03	0.0	211,210,0	0.02	8.67e-04	8.67e-04215,239,239			1.00	0.04	0.96
2977	5.21e-03	7.60e-03	0.0	233,105,0	0.02	7.38e-03	9.42e-03223,236,236	0.12	223	0.87	0.06	0.94
	9.91e-03	6.62e-03	0.0	211,210,0	0.02	5.78e-04	5.78e-04223,233,233			1.00	0.04	0.96
2978	0.01	0.02	0.0	228,225,0	0.02	8.30e-03	0.01219,226,225	0.11	219	0.87	0.06	0.94
	0.01	9.16e-03	0.0	233,233,0	0.02	3.86e-03	3.86e-03219,233,233			1.00	0.04	0.96
2979	7.57e-03	8.54e-03	0.0	233,236,0	0.02	8.42e-03	0.01215,235,235	0.11	215	0.87	0.06	0.94
	0.02	0.01	0.0	211,210,0	0.02	1.53e-03	1.53e-03215,219,219			1.00	0.04	0.96
2980	0.02	0.02	0.0	233,236,0	0.02	8.42e-03	0.01215,235,235	0.12	215	0.87	0.06	0.94
	0.02	0.01	0.0	211,210,0	0.02	1.93e-03	1.93e-03215,227,227			1.00	0.04	0.96
2981	0.03	0.03	0.0	240,237,0	0.02	0.01	0.02215,235,235	0.10	215	0.87	0.06	0.94
	0.03	0.02	0.0	227,226,0	0.02	4.09e-03	4.09e-03215,231,231			1.00	0.04	0.96
2982	0.01	9.55e-03	0.0	215,221,0	0.01	9.07e-03	0.01215,235,235	0.09	215	0.87	0.06	0.94
	0.03	0.02	0.0	227,226,0	0.01	1.53e-03	1.53e-03215,219,219			1.00	0.04	0.96
2987	2.57e-03	9.76e-03	0.0	228,105,0	0.02	8.30e-03	0.01219,226,226	0.11	219	0.87	0.06	0.94
	0.01	7.57e-03	0.0	235,234,0	0.02	2.41e-03	2.41e-03219,233,233			1.00	0.04	0.96
2989	0.01	0.01	0.0	226,227,0	0.02	8.30e-03	0.01219,226,226	0.12	219	0.87	0.06	0.94
	0.01	8.63e-03	0.0	211,210,0	0.02	1.96e-03	1.96e-03219,233,233			1.00	0.04	0.96
2990	2.38e-03	9.81e-03	0.0	232,107,0	0.02	8.30e-03	0.01219,226,226	0.11	219	0.87	0.06	0.94
	0.01	8.63e-03	0.0	211,210,0	0.02	1.06e-03	1.06e-03219,233,233			1.00	0.04	0.96
2991	0.01	0.01	0.0	226,227,0	0.02	7.81e-03	0.01219,230,226	0.12	219	0.87	0.06	0.94
	0.01	8.63e-03	0.0	211,210,0	0.02	8.14e-04	8.14e-04219,233,233			1.00	0.04	0.96
2992	2.38e-03	9.96e-03	0.0	232,107,0	0.02	7.81e-03	9.81e-03219,230,230	0.12	219	0.87	0.06	0.94
	0.01	8.63e-03	0.0	211,210,0	0.02	7.42e-04	7.42e-04219,210,210			1.00	0.04	0.96
2993	0.03	0.03	0.0	228,225,0	0.01	0.02	0.03223,225,225	0.09	223	0.87	0.06	0.94
	0.03	0.02	0.0	233,233,0	0.01	0.01	0.01223,233,233			1.00	0.04	0.96
2999	0.01	0.01	0.0	227,227,0	0.03	8.34e-03	0.01219,226,226	0.12	219	0.87	0.06	0.94
	8.36e-03	6.17e-03	0.0	211,210,0	0.03	7.42e-04	7.42e-04219,210,210			1.00	0.04	0.96
3001	0.03	0.03	0.0	233,236,0	0.02	2.50e-03	9.17e-03215,235,236	0.12	215	0.87	0.06	0.94
	7.27e-03	5.99e-03	0.0	232,229,0	0.02	2.42e-03	2.42e-03215,236,236			1.00	0.04	0.96
3002	5.53e-03	0.01	0.0	228,107,0	0.01	0.02	0.02223,225,225	0.08	223	0.87	0.06	0.94
	0.01	9.25e-03	0.0	239,238,0	0.01	2.18e-03	2.18e-03223,233,233			1.00	0.04	0.96
3003	0.02	0.02	0.0	233,236,0	0.02	4.39e-03	9.29e-03215,233,236	0.12	215	0.87	0.06	0.94
	0.02	0.01	0.0	211,210,0	0.02	2.42e-03	2.42e-03215,236,236			1.00	0.04	0.96
3004	0.04	0.04	0.0	240,237,0	0.02	6.46e-03	0.01215,235,235	0.10	215	0.87	0.06	0.94
	7.27e-03	5.99e-03	0.0	232,229,0	0.02	4.12e-03	4.12e-03215,233,233			1.00	0.04	0.96
3005	0.04	0.04	0.0	240,237,0	0.02	0.01	0.02215,240,237	0.10	215	0.87	0.06	0.94
	0.02	0.01	0.0	211,210,0	0.02	4.12e-03	4.12e-03215,233,233			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.04	0.04	0.0	0.03	0.02	0.03	0.13

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
23	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.96	-20.1	193	0.75	-15.6	193	0.99	1.227e+04	3.142e+05	228

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
515	0.11	0.15	0.0	228,225,0	0.04	0.02	0.03	225,45,44	0.15	225	0.85	0.06	0.94
	8.38e-03	5.66e-03	0.0	228,225,0	0.04	4.72e-03	4.72e-03	225,44,44			1.00	0.04	0.96
516	0.07	0.12	0.0	228,225,0	0.03	0.02	0.03	225,45,44	0.14	225	0.85	0.06	0.94
	8.38e-03	5.66e-03	0.0	228,225,0	0.03	4.72e-03	4.72e-03	225,44,44			1.00	0.04	0.96
619	0.0	0.05	0.0	0,100,0	0.11	2.18e-03	8.86e-03	225,224,44	0.26	225	0.0	0.0	0.0
	8.46e-03	6.68e-03	0.0	228,225,0	0.11	5.31e-03	5.31e-03	225,44,44			1.00	0.04	0.96
620	0.0	0.03	0.0	0,100,0	0.11	2.18e-03	5.78e-03	225,224,44	0.26	225	0.0	0.0	0.0
	4.75e-03	5.39e-03	0.0	228,225,0	0.11	5.31e-03	5.31e-03	225,44,44			1.00	0.04	0.96
621	4.15e-03	0.06	0.0	230,100,0	0.11	3.38e-03	0.01225,221,44		0.26	225	0.85	0.06	0.94
	8.46e-03	6.68e-03	0.0	228,225,0	0.11	5.90e-03	5.90e-03	225,44,44			1.00	0.04	0.96
622	9.49e-03	0.07	0.0	230,100,0	0.11	8.30e-03	0.01225,221,221		0.26	225	0.85	0.06	0.94
	4.60e-03	3.70e-03	0.0	228,225,0	0.11	6.31e-03	6.31e-03	225,44,44			1.00	0.04	0.96
643	0.01	0.07	0.0	230,100,0	0.11	9.33e-03	0.02225,221,221		0.25	225	0.85	0.06	0.94
	3.21e-03	3.25e-03	0.0	236,233,0	0.11	6.31e-03	6.31e-03	225,44,44			1.00	0.04	0.96

644	0.02	0.08	0.0 230,233,0	0.11	9.33e-03	0.02225,221,221	0.25	225	0.85	0.06	0.94
	6.27e-03	4.45e-03	0.0 233,236,0	0.11	9.59e-03	9.59e-03225,221,221			1.00	0.04	0.96
659	0.02	0.08	0.0 230,233,0	0.10	0.02	0.03225,221,221	0.25	225	0.85	0.06	0.94
	0.03	0.02	0.0 228,225,0	0.10	9.59e-03	9.59e-03225,221,221			1.00	0.04	0.96
660	0.02	0.08	0.0 230,231,0	0.10	0.02	0.03225,221,221	0.25	225	0.85	0.06	0.94
	0.03	0.02	0.0 228,225,0	0.10	6.22e-03	6.22e-03225,217,217			1.00	0.04	0.96
679	0.33	0.39	0.0 228,225,0	0.11	0.03	0.05225,45,225	0.26	225	0.85	0.06	0.94
	8.46e-03	6.68e-03	0.0 228,225,0	0.11	7.59e-03	7.59e-03 225,44,44			1.00	0.04	0.96
683	0.33	0.39	0.0 228,225,0	0.11	0.03	0.05225,45,225	0.26	225	0.85	0.06	0.94
	4.75e-03	5.39e-03	0.0 228,225,0	0.11	7.59e-03	7.59e-03 225,44,44			1.00	0.04	0.96
685	0.28	0.33	0.0 228,225,0	0.11	0.02	0.04225,45,225	0.26	225	0.85	0.06	0.94
	8.46e-03	6.68e-03	0.0 228,225,0	0.11	5.90e-03	5.90e-03 225,44,44			1.00	0.04	0.96
686	0.23	0.28	0.0 228,225,0	0.11	8.30e-03	0.03225,221,225	0.26	225	0.85	0.06	0.94
	4.60e-03	3.70e-03	0.0 228,225,0	0.11	6.31e-03	6.31e-03 225,44,44			1.00	0.04	0.96
688	0.33	0.39	0.0 228,225,0	0.09	0.03	0.05225,45,225	0.23	225	0.85	0.06	0.94
	4.81e-03	3.18e-03	0.0 228,225,0	0.09	7.59e-03	7.59e-03 225,44,44			1.00	0.04	0.96
689	0.33	0.39	0.0 228,225,0	0.09	0.03	0.05225,45,225	0.23	225	0.85	0.06	0.94
	3.34e-03	2.31e-03	0.0 228,225,0	0.09	7.59e-03	7.59e-03 225,44,44			1.00	0.04	0.96
691	0.28	0.33	0.0 228,225,0	0.07	0.02	0.04225,45,225	0.20	225	0.85	0.06	0.94
	4.81e-03	3.18e-03	0.0 228,225,0	0.07	1.28e-03	1.28e-03 225,44,44			1.00	0.04	0.96
692	0.23	0.28	0.0 228,225,0	0.05	7.84e-03	0.03225,45,225	0.17	225	0.85	0.06	0.94
	2.48e-03	1.75e-03	0.0 236,233,0	0.05	1.31e-03	1.31e-03225,221,221			1.00	0.04	0.96
694	0.19	0.23	0.0 228,225,0	0.11	9.33e-03	0.03225,221,233	0.25	225	0.85	0.06	0.94
	3.21e-03	3.25e-03	0.0 236,233,0	0.11	6.31e-03	6.31e-03 225,44,44			1.00	0.04	0.96
1357	0.15	0.19	0.0 228,225,0	0.11	0.02	0.03 225,45,44	0.25	225	0.85	0.06	0.94
	6.27e-03	4.45e-03	0.0 233,236,0	0.11	9.59e-03	9.59e-03225,221,221			1.00	0.04	0.96
1359	0.19	0.23	0.0 228,225,0	0.04	7.82e-03	0.03225,45,233	0.16	225	0.85	0.06	0.94
	2.42e-03	2.33e-03	0.0 218,221,0	0.04	1.76e-03	1.76e-03225,221,221			1.00	0.04	0.96
1361	0.15	0.19	0.0 228,225,0	0.04	0.02	0.03 225,45,44	0.15	225	0.85	0.06	0.94
	3.76e-03	3.16e-03	0.0 221,218,0	0.04	2.36e-03	2.36e-03225,221,221			1.00	0.04	0.96
1363	0.11	0.15	0.0 228,225,0	0.10	0.02	0.03 225,45,44	0.25	225	0.85	0.06	0.94
	0.03	0.02	0.0 228,225,0	0.10	9.59e-03	9.59e-03225,221,221			1.00	0.04	0.96
1365	0.07	0.12	0.0 228,225,0	0.10	0.02	0.03 225,45,44	0.25	225	0.85	0.06	0.94
	0.03	0.02	0.0 228,225,0	0.10	6.22e-03	6.22e-03225,217,217			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.33	0.39	0.0	0.11	0.03	0.05	0.26

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
24	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.75	115.0	204	0.34	53.0	204	1.00	-7864.3	3.884e+06	234

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
669	0.28	0.60	0.0	234,235,0	0.21	8.48e-03	0.09236,221,235		0.35	236	0.85	0.06	0.94
	6.97e-03	5.86e-03	0.0	234,235,0	0.21	1.70e-03	1.70e-03236,217,217				1.00	0.04	0.96
670	0.28	0.60	0.0	234,235,0	0.21	8.40e-03	0.09236,221,235		0.35	236	0.85	0.06	0.94
	5.15e-03	3.43e-03	0.0	234,235,0	0.21	1.70e-03	1.70e-03236,217,217				1.00	0.04	0.96
672	0.22	0.54	0.0	234,235,0	0.16	9.18e-03	0.08236,221,235		0.31	236	0.85	0.06	0.94
	6.97e-03	5.86e-03	0.0	234,235,0	0.16	2.02e-03	2.02e-03236,221,221				1.00	0.04	0.96
674	0.17	0.48	0.0	234,235,0	0.14	0.01	0.07236,221,237		0.28	236	0.85	0.06	0.94
	3.85e-03	9.33e-03	0.0	218,219,0	0.14	4.72e-03	4.72e-03236,221,221				1.00	0.04	0.96
676	0.12	0.44	0.0	234,235,0	0.12	0.02	0.07236,221,219		0.27	236	0.85	0.06	0.94
	0.02	0.03	0.0	224,221,0	0.12	0.02	0.02236,221,221				1.00	0.04	0.96
678	0.07	0.40	0.0	238,235,0	0.10	0.04	0.09100,224,219		0.24	100	0.85	0.06	0.94
	0.02	0.09	0.0	224,100,0	0.10	0.02	0.02100,221,221				1.00	0.04	0.96
680	0.03	0.34	0.0	238,100,0	0.10	0.04	0.09100,224,219		0.24	100	0.85	0.06	0.94
	0.0	0.09	0.0	0,100,0	0.10	0.02	0.02100,221,221				0.0	0.0	0.0
682	0.02	0.28	0.0	234,100,0	0.01	0.02	0.05100,221,237		0.08	100	0.85	0.06	0.94
	0.0	0.08	0.0	0,100,0	0.01	7.18e-03	7.18e-03100,224,224				0.0	0.0	0.0
695	0.28	0.60	0.0	234,235,0	0.29	8.48e-03	0.09236,221,235		0.42	236	0.85	0.06	0.94
	0.01	0.01	0.0	240,237,0	0.29	2.01e-03	2.01e-03236,221,221				1.00	0.04	0.96
696	0.28	0.60	0.0	234,235,0	0.26	8.40e-03	0.09236,221,235		0.39	236	0.85	0.06	0.94
	6.38e-03	6.11e-03	0.0	234,235,0	0.26	1.70e-03	1.70e-03236,217,217				1.00	0.04	0.96
697	0.22	0.54	0.0	234,235,0	0.31	9.18e-03	0.08236,221,235		0.43	236	0.85	0.06	0.94
	0.01	0.01	0.0	240,237,0	0.31	3.58e-03	3.58e-03236,221,221				1.00	0.04	0.96
698	0.17	0.48	0.0	234,235,0	0.32	0.01	0.07236,221,237		0.44	236	0.85	0.06	0.94
	0.02	0.02	0.0	218,219,0	0.32	6.71e-03	6.71e-03236,221,221				1.00	0.04	0.96

699	0.02	0.22	0.0 234,100,0	0.29	6.34e-03	0.03236,221,223	0.42	236	0.85	0.06	0.94
	0.01	0.01	0.0 240,237,0	0.29	2.01e-03	2.01e-03236,221,221			1.00	0.04	0.96
700	0.02	0.22	0.0 234,100,0	0.26	6.34e-03	0.03236,221,223	0.39	236	0.85	0.06	0.94
	6.38e-03	6.11e-03	0.0 234,235,0	0.26	1.50e-03	1.50e-03236,217,217			1.00	0.04	0.96
701	0.02	0.22	0.0 238,100,0	0.32	6.17e-03	0.03236,221,223	0.43	236	0.85	0.06	0.94
	0.01	0.01	0.0 218,219,0	0.32	3.58e-03	3.58e-03236,221,221			1.00	0.04	0.96
702	0.02	0.22	0.0 238,100,0	0.33	5.61e-03	0.03236,221,223	0.44	236	0.85	0.06	0.94
	0.02	0.02	0.0 218,221,0	0.33	6.71e-03	6.71e-03236,221,221			1.00	0.04	0.96
703	0.0	0.14	0.0 0,100,0	0.30	4.83e-03	0.02236,221,223	0.42	236	0.0	0.0	0.0
	4.87e-03	7.61e-03	0.0 218,219,0	0.30	1.73e-03	1.73e-03236,218,218			1.00	0.04	0.96
704	0.0	0.14	0.0 0,100,0	0.26	4.83e-03	0.02236,221,219	0.39	236	0.0	0.0	0.0
	2.47e-03	3.77e-03	0.0 237,240,0	0.26	1.73e-03	1.73e-03236,218,218			1.00	0.04	0.96
705	0.0	0.14	0.0 0,100,0	0.32	4.20e-03	0.02236,221,223	0.43	236	0.0	0.0	0.0
	0.01	0.01	0.0 218,219,0	0.32	2.21e-03	2.21e-03236,221,221			1.00	0.04	0.96
706	0.0	0.13	0.0 0,100,0	0.33	2.58e-03	0.02236,221,219	0.44	236	0.0	0.0	0.0
	0.02	0.02	0.0 218,221,0	0.33	4.24e-03	4.24e-03236,221,221			1.00	0.04	0.96
707	0.25	0.29	0.0 233,236,0	0.30	2.79e-03	0.04236,223,236	0.42	236	0.85	0.06	0.94
	5.09e-03	6.60e-03	0.0 233,224,0	0.30	1.73e-03	1.73e-03236,218,218			1.00	0.04	0.96
708	0.25	0.29	0.0 233,236,0	0.26	2.79e-03	0.04236,223,236	0.39	236	0.85	0.06	0.94
	2.47e-03	3.77e-03	0.0 237,240,0	0.26	1.73e-03	1.73e-03236,218,218			1.00	0.04	0.96
709	0.20	0.24	0.0 233,236,0	0.32	2.12e-03	0.03236,223,236	0.43	236	0.85	0.06	0.94
	8.78e-03	9.93e-03	0.0 221,224,0	0.32	2.21e-03	2.21e-03236,221,221			1.00	0.04	0.96
710	0.15	0.20	0.0 233,236,0	0.33	1.06e-03	0.02236,223,236	0.44	236	0.85	0.06	0.94
	0.02	0.02	0.0 237,234,0	0.33	4.24e-03	4.24e-03236,221,221			1.00	0.04	0.96
711	0.12	0.44	0.0 234,235,0	0.32	0.02	0.07236,221,219	0.44	236	0.85	0.06	0.94
	0.04	0.05	0.0 222,237,0	0.32	0.02	0.02236,221,221			1.00	0.04	0.96
712	0.07	0.40	0.0 238,235,0	0.29	0.04	0.09236,224,219	0.41	236	0.85	0.06	0.94
	0.04	0.09	0.0 222,100,0	0.29	0.02	0.02236,221,221			1.00	0.04	0.96
713	0.02	0.21	0.0 238,100,0	0.33	4.56e-03	0.03236,224,219	0.44	236	0.85	0.06	0.94
	0.06	0.06	0.0 240,237,0	0.33	6.71e-03	6.71e-03236,221,221			1.00	0.04	0.96
714	0.01	0.21	0.0 238,100,0	0.31	5.31e-03	0.03236,221,219	0.43	236	0.85	0.06	0.94
	0.06	0.08	0.0 240,237,0	0.31	5.83e-03	5.83e-03236,221,221			1.00	0.04	0.96
715	4.16e-03	0.13	0.0 237,100,0	0.33	3.10e-03	0.02236,221,219	0.44	236	0.85	0.06	0.94
	0.08	0.07	0.0 234,235,0	0.33	5.83e-03	5.83e-03236,221,221			1.00	0.04	0.96
716	4.16e-03	0.13	0.0 237,100,0	0.32	3.45e-03	0.02236,221,219	0.43	236	0.85	0.06	0.94
	0.10	0.10	0.0 234,235,0	0.32	5.83e-03	5.83e-03236,221,221			1.00	0.04	0.96
717	0.11	0.15	0.0 233,236,0	0.33	1.50e-03	0.02236,221,236	0.44	236	0.85	0.06	0.94
	0.12	0.10	0.0 234,235,0	0.33	5.19e-03	5.19e-03236,221,221			1.00	0.04	0.96
718	0.06	0.11	0.0 233,236,0	0.32	2.09e-03	0.01236,223,236	0.43	236	0.85	0.06	0.94
	0.17	0.14	0.0 234,235,0	0.32	5.19e-03	5.19e-03236,221,221			1.00	0.04	0.96
719	0.03	0.34	0.0 238,100,0	0.19	0.04	0.09236,224,219	0.33	236	0.85	0.06	0.94
	0.02	0.09	0.0 218,100,0	0.19	0.02	0.02236,221,221			1.00	0.04	0.96
720	0.02	0.28	0.0 234,100,0	0.11	0.02	0.05236,221,237	0.25	236	0.85	0.06	0.94
	0.0	0.08	0.0 0,100,0	0.11	7.18e-03	7.18e-03236,224,224			0.0	0.0	0.0
721	0.01	0.20	0.0 238,100,0	0.19	0.01	0.03236,221,219	0.33	236	0.85	0.06	0.94
	0.05	0.08	0.0 234,237,0	0.19	5.23e-03	5.23e-03236,221,221			1.00	0.04	0.96
722	2.83e-03	0.19	0.0 230,100,0	0.11	0.01	0.03233,221,219	0.25	233	0.85	0.06	0.94
	3.68e-03	0.05	0.0 222,100,0	0.11	5.17e-03	5.17e-03233,221,221			1.00	0.04	0.96
723	1.47e-03	0.12	0.0 237,100,0	0.17	5.21e-03	0.02236,221,219	0.32	236	0.85	0.06	0.94
	0.10	0.10	0.0 234,235,0	0.17	5.23e-03	5.23e-03236,221,221			1.00	0.04	0.96
724	0.0	0.12	0.0 0,100,0	0.11	5.21e-03	0.02233,221,219	0.25	233	0.0	0.0	0.0
	9.82e-03	0.04	0.0 238,100,0	0.11	5.17e-03	5.17e-03233,221,221			1.00	0.04	0.96
725	0.06	0.10	0.0 233,236,0	0.13	2.14e-03	0.01233,219,238	0.28	233	0.85	0.06	0.94
	0.17	0.14	0.0 234,235,0	0.13	3.98e-03	3.98e-03233,221,221			1.00	0.04	0.96
726	0.06	0.10	0.0 233,236,0	0.10	2.14e-03	0.01233,219,238	0.24	233	0.85	0.06	0.94
	9.82e-03	0.03	0.0 238,235,0	0.10	3.85e-03	3.85e-03233,221,221			1.00	0.04	0.96
776	0.11	0.15	0.0 233,236,0	0.23	1.50e-03	0.02239,221,236	0.36	239	0.85	0.06	0.94
	0.12	0.10	0.0 234,235,0	0.23	3.20e-03	3.20e-03239,221,221			1.00	0.04	0.96
777	0.06	0.11	0.0 233,236,0	0.23	2.09e-03	0.01239,223,236	0.36	239	0.85	0.06	0.94
	0.17	0.14	0.0 234,235,0	0.23	3.20e-03	3.20e-03239,221,221			1.00	0.04	0.96
2026	0.06	0.10	0.0 233,236,0	0.04	2.09e-03	0.01233,223,238	0.15	233	0.85	0.06	0.94
	0.17	0.14	0.0 234,235,0	0.04	2.54e-03	2.54e-03233,221,221			1.00	0.04	0.96
2027	0.06	0.10	0.0 233,236,0	0.04	2.07e-03	0.01233,223,238	0.15	233	0.85	0.06	0.94
	6.01e-03	0.02	0.0 238,235,0	0.04	2.42e-03	2.42e-03233,221,221			1.00	0.04	0.96
3218	0.25	0.29	0.0 233,236,0	0.22	2.79e-03	0.04236,223,236	0.36	236	0.85	0.06	0.94
	5.09e-03	4.83e-03	0.0 233,236,0	0.22	1.68e-03	1.68e-03236,218,218			1.00	0.04	0.96
3219	0.25	0.29	0.0 233,236,0	0.22	2.79e-03	0.04236,223,236	0.36	236	0.85	0.06	0.94
	2.18e-03	2.77e-03	0.0 233,236,0	0.22	1.68e-03	1.68e-03236,218,218			1.00	0.04	0.96
3220	0.20	0.24	0.0 233,236,0	0.19	2.12e-03	0.03236,223,236	0.33	236	0.85	0.06	0.94
	5.09e-03	4.83e-03	0.0 233,236,0	0.19	1.97e-03	1.97e-03236,221,221			1.00	0.04	0.96
3221	0.15	0.20	0.0 233,236,0	0.17	1.06e-03	0.02236,223,236	0.32	236	0.85	0.06	0.94
	0.02	0.02	0.0 237,234,0	0.17	2.60e-03	2.60e-03236,221,221			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.28	0.60	0.0	0.33	0.04	0.09	0.44

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
25	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2035	0.07	0.06	0.0	228,225,0	0.10	5.98e-03	0.02225,219,219		0.24	225	0.33	0.14	0.86
	0.04	0.03	0.0	228,225,0	0.10	0.01	0.01 225,46,46				1.00	0.04	0.96
2497	0.08	0.05	0.0	225,228,0	0.09	6.54e-03	0.02225,217,224		0.23	225	0.33	0.14	0.86
	0.04	0.03	0.0	225,228,0	0.09	6.00e-03	6.00e-03225,217,217				1.00	0.04	0.96
2542	0.04	0.02	0.0	233,236,0	0.05	3.38e-03	0.02225,217,224		0.18	225	0.33	0.14	0.86
	8.35e-03	4.53e-03	0.0	228,225,0	0.05	3.93e-04	3.93e-04225,224,224				1.00	0.04	0.96
2554	0.04	0.02	0.0	233,236,0	0.10	3.38e-03	0.02225,217,224		0.24	225	0.33	0.14	0.86
	8.35e-03	4.53e-03	0.0	228,225,0	0.10	1.33e-03	1.33e-03225,224,224				1.00	0.04	0.96
2555	0.02	0.01	0.0	226,227,0	0.09	1.36e-03	4.88e-03225,45,223		0.23	225	0.33	0.14	0.86
	5.17e-03	2.80e-03	0.0	225,228,0	0.09	6.00e-03	6.00e-03225,217,217				1.00	0.04	0.96
2556	0.04	0.03	0.0	230,231,0	0.06	2.41e-03	0.02225,219,219		0.18	225	0.33	0.14	0.86
	7.00e-03	5.55e-03	0.0	225,228,0	0.06	3.93e-04	3.93e-04225,224,224				1.00	0.04	0.96
2557	0.01	7.67e-03	0.0	218,219,0	0.10	1.45e-03	6.54e-03225,46,219		0.24	225	0.33	0.14	0.86
	2.63e-03	1.36e-03	0.0	229,232,0	0.10	1.33e-03	1.33e-03225,224,224				1.00	0.04	0.96
2570	0.04	0.03	0.0	230,231,0	0.10	2.41e-03	0.02225,219,219		0.24	225	0.33	0.14	0.86
	7.00e-03	5.55e-03	0.0	225,228,0	0.10	1.78e-03	1.78e-03225,217,217				1.00	0.04	0.96
2571	0.01	7.99e-03	0.0	213,216,0	0.10	1.59e-03	6.54e-03225,45,219		0.24	225	0.33	0.14	0.86
	2.43e-03	1.63e-03	0.0	230,231,0	0.10	1.78e-03	1.78e-03225,217,217				1.00	0.04	0.96
2572	0.07	0.06	0.0	228,225,0	0.07	5.98e-03	0.02225,219,219		0.21	225	0.33	0.14	0.86
	0.04	0.03	0.0	228,225,0	0.07	5.98e-03	5.98e-03225,219,219				1.00	0.04	0.96
2589	0.08	0.05	0.0	225,228,0	0.07	6.54e-03	0.01225,217,220		0.21	225	0.33	0.14	0.86
	0.04	0.03	0.0	225,228,0	0.07	5.51e-03	5.51e-03225,218,218				1.00	0.04	0.96
2590	0.02	0.01	0.0	226,227,0	0.07	2.24e-03	4.54e-03225,219,219		0.21	225	0.33	0.14	0.86
	0.03	0.02	0.0	231,230,0	0.07	6.00e-03	6.00e-03225,217,217				1.00	0.04	0.96
2814	0.07	0.06	0.0	228,225,0	0.07	5.98e-03	0.01225,219,219		0.21	225	0.33	0.14	0.86
	0.04	0.03	0.0	228,225,0	0.07	5.98e-03	5.98e-03225,219,219				1.00	0.04	0.96
2823	0.07	0.06	0.0	228,225,0	0.08	5.98e-03	0.01225,219,219		0.22	225	0.33	0.14	0.86
	0.04	0.03	0.0	228,225,0	0.08	0.01	0.01 225,46,46				1.00	0.04	0.96
2824	0.02	0.01	0.0	213,236,0	0.08	2.81e-03	5.45e-03 225,46,44		0.22	225	0.33	0.14	0.86
	0.03	0.02	0.0	228,225,0	0.08	0.01	0.01 225,46,46				1.00	0.04	0.96
2828	0.08	0.05	0.0	225,228,0	0.07	6.54e-03	0.01225,217,220		0.20	225	0.33	0.14	0.86
	0.04	0.03	0.0	225,228,0	0.07	5.51e-03	5.51e-03225,218,218				1.00	0.04	0.96
3098	0.02	0.01	0.0	213,216,0	0.10	1.59e-03	5.70e-03225,45,219		0.24	225	0.33	0.14	0.86
	4.48e-03	3.29e-03	0.0	230,231,0	0.10	3.51e-03	3.51e-03 225,44,44				1.00	0.04	0.96
3217	0.08	0.05	0.0	225,228,0	0.07	6.54e-03	0.02225,217,224		0.20	225	0.33	0.14	0.86
	0.04	0.03	0.0	225,228,0	0.07	5.51e-03	5.51e-03225,218,218				1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.08	0.06	0.0	0.10	0.01	0.02	0.24

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
26	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.98	74.9	202	0.37	-27.9	207	0.55	1.307e+04	1.555e+06	234

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
735	0.25	0.25	0.0	234,235,0	0.22	2.25e-03	0.03234,224,235		0.36	234	0.85	0.06	0.94
	4.67e-03	3.30e-03	0.0	234,235,0	0.22	8.03e-04	8.03e-04234,217,217				1.00	0.04	0.96
736	0.25	0.25	0.0	234,235,0	0.22	2.25e-03	0.03234,224,235		0.36	234	0.85	0.06	0.94
	2.71e-03	1.96e-03	0.0	234,235,0	0.22	8.03e-04	8.03e-04234,217,217				1.00	0.04	0.96
737	0.20	0.21	0.0	234,235,0	0.20	1.79e-03	0.03234,217,235		0.35	234	0.85	0.06	0.94
	4.67e-03	3.30e-03	0.0	234,235,0	0.20	9.61e-04	9.61e-04234,224,224				1.00	0.04	0.96
738	0.16	0.17	0.0	234,235,0	0.19	1.14e-03	0.02236,222,235		0.33	236	0.85	0.06	0.94
	0.02	0.01	0.0	236,233,0	0.19	1.44e-03	1.44e-03236,219,219				1.00	0.04	0.96
739	0.25	0.25	0.0	234,235,0	0.30	2.25e-03	0.03234,224,235		0.42	234	0.85	0.06	0.94

	7.31e-03	4.99e-03	0.0	218,219,0	0.30	1.05e-03	1.05e-03	234,221,221			1.00	0.04	0.96
740	0.25	0.25	0.0	234,235,0	0.26	2.25e-03	0.03	234,224,235	0.39	234	0.85	0.06	0.94
	4.41e-03	2.99e-03	0.0	222,223,0	0.26	1.05e-03	1.05e-03	234,221,221			1.00	0.04	0.96
741	0.20	0.21	0.0	234,235,0	0.32	1.79e-03	0.03	234,217,235	0.44	234	0.85	0.06	0.94
	7.31e-03	4.99e-03	0.0	218,219,0	0.32	9.61e-04	9.61e-04	234,224,224			1.00	0.04	0.96
742	0.16	0.17	0.0	234,235,0	0.34	1.51e-03	0.02	235,219,235	0.45	235	0.85	0.06	0.94
	0.02	0.01	0.0	236,233,0	0.34	1.44e-03	1.44e-03	235,219,219			1.00	0.04	0.96
743	0.21	0.20	0.0	221,224,0	0.30	2.42e-03	0.03	234,237,224	0.42	234	0.85	0.06	0.94
	7.31e-03	4.99e-03	0.0	218,219,0	0.30	2.12e-03	2.12e-03	234,224,224			1.00	0.04	0.96
744	0.21	0.20	0.0	221,224,0	0.26	2.42e-03	0.03	234,237,224	0.39	234	0.85	0.06	0.94
	4.41e-03	2.99e-03	0.0	222,223,0	0.26	1.05e-03	1.05e-03	234,221,221			1.00	0.04	0.96
745	0.19	0.18	0.0	221,224,0	0.32	1.04e-03	0.02	234,223,224	0.44	234	0.85	0.06	0.94
	7.31e-03	4.99e-03	0.0	218,219,0	0.32	2.12e-03	2.12e-03	234,224,224			1.00	0.04	0.96
746	0.16	0.16	0.0	221,224,0	0.34	1.51e-03	0.02	235,219,224	0.45	235	0.85	0.06	0.94
	7.02e-03	5.17e-03	0.0	218,219,0	0.34	2.83e-03	2.83e-03	235,219,219			1.00	0.04	0.96
747	0.21	0.20	0.0	221,224,0	0.23	2.42e-03	0.03	234,237,224	0.37	234	0.85	0.06	0.94
	3.88e-03	3.24e-03	0.0	221,224,0	0.23	2.12e-03	2.12e-03	234,224,224			1.00	0.04	0.96
748	0.21	0.20	0.0	221,224,0	0.23	2.42e-03	0.03	234,237,224	0.37	234	0.85	0.06	0.94
	1.94e-03	2.40e-03	0.0	221,224,0	0.23	7.23e-04	7.23e-04	234,228,228			1.00	0.04	0.96
749	0.19	0.18	0.0	221,224,0	0.22	7.35e-04	0.02	234,232,224	0.36	234	0.85	0.06	0.94
	3.88e-03	3.24e-03	0.0	221,224,0	0.22	2.12e-03	2.12e-03	234,224,224			1.00	0.04	0.96
750	0.16	0.16	0.0	221,224,0	0.21	1.28e-03	0.02	234,216,224	0.35	234	0.85	0.06	0.94
	4.47e-03	3.45e-03	0.0	218,219,0	0.21	2.83e-03	2.83e-03	234,219,219			1.00	0.04	0.96
755	0.11	0.13	0.0	234,235,0	0.23	1.67e-03	0.02	236,219,235	0.37	236	0.85	0.06	0.94
	0.09	0.07	0.0	233,236,0	0.23	1.44e-03	1.44e-03	236,219,219			1.00	0.04	0.96
756	0.07	0.09	0.0	234,235,0	0.23	2.70e-03	0.01	236,223,223	0.37	236	0.85	0.06	0.94
	0.09	0.07	0.0	233,236,0	0.23	4.04e-03	4.04e-03	236,223,223			1.00	0.04	0.96
757	0.11	0.13	0.0	234,235,0	0.34	2.24e-03	0.02	235,219,235	0.45	235	0.85	0.06	0.94
	0.09	0.07	0.0	233,236,0	0.34	5.87e-03	5.87e-03	235,223,223			1.00	0.04	0.96
758	0.07	0.09	0.0	222,235,0	0.32	5.14e-03	0.02	235,223,223	0.43	235	0.85	0.06	0.94
	0.09	0.07	0.0	233,236,0	0.32	5.87e-03	5.87e-03	235,223,223			1.00	0.04	0.96
759	0.14	0.14	0.0	221,224,0	0.34	3.28e-03	0.02	235,223,224	0.45	235	0.85	0.06	0.94
	0.05	0.04	0.0	233,236,0	0.34	6.01e-03	6.01e-03	235,219,219			1.00	0.04	0.96
760	0.12	0.12	0.0	221,224,0	0.32	0.03	0.05	235,223,219	0.43	235	0.85	0.06	0.94
	0.06	0.05	0.0	213,216,0	0.32	6.08e-03	6.08e-03	235,223,223			1.00	0.04	0.96
761	0.14	0.14	0.0	221,224,0	0.20	3.28e-03	0.02	234,223,224	0.35	234	0.85	0.06	0.94
	0.03	0.02	0.0	235,234,0	0.20	6.01e-03	6.01e-03	234,219,219			1.00	0.04	0.96
762	0.12	0.12	0.0	221,224,0	0.16	0.03	0.05	234,223,219	0.31	234	0.85	0.06	0.94
	0.05	0.04	0.0	222,223,0	0.16	6.08e-03	6.08e-03	234,223,223			1.00	0.04	0.96
767	0.07	0.08	0.0	234,235,0	0.04	2.70e-03	0.01	235,223,223	0.16	235	0.85	0.06	0.94
	0.09	0.07	0.0	233,236,0	0.04	4.04e-03	4.04e-03	235,223,223			1.00	0.04	0.96
768	0.07	0.08	0.0	234,235,0	0.03	2.26e-03	9.43e-03	233,217,235	0.14	233	0.85	0.06	0.94
	0.04	0.03	0.0	238,239,0	0.03	2.76e-03	2.76e-03	233,219,219			1.00	0.04	0.96
769	0.07	0.09	0.0	222,223,0	0.16	6.63e-03	0.02	235,219,223	0.31	235	0.85	0.06	0.94
	0.09	0.07	0.0	233,236,0	0.16	0.01	0.01	235,219,219			1.00	0.04	0.96
770	0.07	0.08	0.0	234,235,0	0.09	6.63e-03	0.02	235,219,223	0.23	235	0.85	0.06	0.94
	0.06	0.04	0.0	214,215,0	0.09	0.01	0.01	235,219,219			1.00	0.04	0.96
771	0.12	0.11	0.0	221,224,0	0.16	0.06	0.08	235,223,219	0.31	235	0.85	0.06	0.94
	0.14	0.10	0.0	222,223,0	0.16	0.02	0.02	235,223,223			1.00	0.04	0.96
772	0.09	0.10	0.0	218,219,0	0.09	0.02	0.03	235,223,219	0.23	235	0.85	0.06	0.94
	0.06	0.04	0.0	214,215,0	0.09	0.01	0.01	235,219,219			1.00	0.04	0.96
773	0.12	0.11	0.0	221,224,0	0.08	0.06	0.08	234,223,219	0.22	234	0.85	0.06	0.94
	0.14	0.10	0.0	222,223,0	0.08	0.02	0.02	234,223,223			1.00	0.04	0.96
774	0.12	0.11	0.0	221,224,0	9.18e-03	0.06	0.08	235,223,219	0.07	235	0.85	0.06	0.94
	0.14	0.10	0.0	222,223,0	9.07e-03	0.02	0.02	235,223,223			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.25	0.25	0.0	0.34	0.06	0.08	0.45

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
27	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
450	0.02	0.01	0.0	230,231,0	0.24	1.40e-03	2.77e-03	225,219,219	0.37	225	0.36	0.13	0.87
	0.08	0.05	0.0	225,228,0	0.24	7.57e-03	7.57e-03	225,44,44			1.00	0.04	0.96
452	8.68e-03	6.81e-03	0.0	230,231,0	0.08	1.40e-03	2.73e-03	225,219,219	0.21	225	0.36	0.13	0.87

	0.08	0.05	0.0 225,228,0	0.08	7.57e-03	7.57e-03 225,44,44			1.00	0.04	0.96
1404	0.02	0.01	0.0 225,228,0	0.08	3.34e-03	5.38e-03225,219,218	0.22	225	0.36	0.13	0.87
	0.29	0.19	0.0 225,228,0	0.08	0.02	0.02 225,44,44			1.00	0.04	0.96
1405	0.16	0.11	0.0 225,228,0	0.10	5.63e-03	0.02225,219,230	0.25	225	0.36	0.13	0.87
	0.29	0.19	0.0 225,228,0	0.10	0.02	0.02 225,44,44			1.00	0.04	0.96
2119	2.12e-03	2.82e-03	0.0 218,219,0	0.09	1.01e-03	2.29e-03225,219,219	0.24	225	0.36	0.13	0.87
	0.08	0.08	0.0 228,225,0	0.09	1.42e-03	1.42e-03225,219,219			1.00	0.04	0.96
2121	0.01	8.97e-03	0.0 231,230,0	0.23	1.01e-03	2.32e-03225,219,218	0.37	225	0.36	0.13	0.87
	0.08	0.08	0.0 228,225,0	0.23	1.42e-03	1.42e-03225,219,219			1.00	0.04	0.96
2129	0.02	0.02	0.0 228,225,0	0.11	2.48e-03	4.19e-03225,219,219	0.25	225	0.36	0.13	0.87
	0.28	0.23	0.0 228,225,0	0.11	5.72e-03	5.72e-03225,219,219			1.00	0.04	0.96
2130	0.15	0.12	0.0 228,225,0	0.13	7.90e-03	0.02225,220,225	0.28	225	0.36	0.13	0.87
	0.28	0.23	0.0 228,225,0	0.13	0.01	0.01225,218,218			1.00	0.04	0.96
3201	0.16	0.11	0.0 225,228,0	0.24	5.63e-03	0.02225,219,230	0.37	225	0.36	0.13	0.87
	0.29	0.19	0.0 225,228,0	0.24	0.02	0.02 225,44,44			1.00	0.04	0.96
3202	0.16	0.11	0.0 225,228,0	0.15	5.63e-03	0.02225,219,230	0.30	225	0.36	0.13	0.87
	0.01	8.31e-03	0.0 228,225,0	0.15	4.96e-03	4.96e-03 225,44,44			1.00	0.04	0.96
3203	0.15	0.12	0.0 228,225,0	0.23	7.90e-03	0.02225,220,225	0.37	225	0.36	0.13	0.87
	0.28	0.23	0.0 228,225,0	0.23	0.01	0.01225,218,218			1.00	0.04	0.96
3204	0.15	0.12	0.0 228,225,0	0.15	7.90e-03	0.02225,220,225	0.30	225	0.36	0.13	0.87
	5.67e-03	9.70e-03	0.0 219,218,0	0.15	0.01	0.01225,218,218			1.00	0.04	0.96
3211	0.01	8.97e-03	0.0 231,230,0	0.25	8.68e-04	2.84e-03225,44,219	0.38	225	0.36	0.13	0.87
	0.05	0.04	0.0 225,228,0	0.25	1.38e-03	1.38e-03 225,44,44			1.00	0.04	0.96
3212	0.06	0.05	0.0 230,231,0	0.25	2.56e-03	0.01225,220,219	0.38	225	0.36	0.13	0.87
	0.05	0.04	0.0 225,228,0	0.25	2.00e-03	2.00e-03225,217,217			1.00	0.04	0.96
3213	0.02	0.01	0.0 230,231,0	0.25	9.42e-04	2.84e-03225,219,219	0.38	225	0.36	0.13	0.87
	0.06	0.04	0.0 228,225,0	0.25	1.69e-03	1.69e-03 225,47,47			1.00	0.04	0.96
3214	0.06	0.04	0.0 225,228,0	0.25	2.44e-03	9.50e-03225,44,218	0.38	225	0.36	0.13	0.87
	0.06	0.04	0.0 228,225,0	0.25	1.94e-03	1.94e-03225,217,217			1.00	0.04	0.96
3215	0.06	0.05	0.0 230,231,0	0.17	2.56e-03	0.01225,220,219	0.31	225	0.36	0.13	0.87
	4.88e-03	4.48e-03	0.0 231,230,0	0.17	2.00e-03	2.00e-03225,217,217			1.00	0.04	0.96
3216	0.06	0.04	0.0 225,228,0	0.17	2.44e-03	9.50e-03225,44,218	0.31	225	0.36	0.13	0.87
	5.56e-03	4.63e-03	0.0 236,233,0	0.17	1.94e-03	1.94e-03225,217,217			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.29	0.23	0.0	0.25	0.02	0.02	0.38

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
28	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.38	29.0	204	0.25	20.1	100	0.27	-5811.9	5.197e+05	99

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
753	0.03	0.04	0.0	222,223,0	0.02	7.22e-03	0.01236,217,220		0.11	236	0.87	0.06	0.94
	7.60e-03	3.00e-03	0.0	100,237,0	0.02	1.26e-03	1.26e-03236,221,221				1.00	0.04	0.96
763	0.03	0.05	0.0	240,237,0	0.02	3.72e-03	0.01236,220,223		0.11	236	0.87	0.06	0.94
	0.01	7.54e-03	0.0	233,236,0	0.02	1.26e-03	1.26e-03236,221,221				1.00	0.04	0.96
1370	0.06	0.02	0.0	99,108,0	0.01	0.03	0.03 100,99,99		0.08	100	0.87	0.06	0.94
	0.07	0.01	0.0	100,221,0	0.01	0.02	0.02 100,99,99				1.00	0.04	0.96
1997	0.06	0.05	0.0	99,235,0	0.03	0.03	0.03 240,99,99		0.13	240	0.87	0.06	0.94
	0.09	0.01	0.0	100,221,0	0.03	0.02	0.02 240,99,99				1.00	0.04	0.96
1999	0.02	0.05	0.0	234,100,0	0.03	7.23e-03	0.01240,217,223		0.13	240	0.87	0.06	0.94
	0.09	0.01	0.0	100,221,0	0.03	9.40e-03	9.40e-03240,221,221				1.00	0.04	0.96
2001	0.0	0.05	0.0	0,100,0	0.03	8.90e-03	0.01236,217,220		0.12	236	0.0	0.0	0.0
	0.05	5.31e-03	0.0	100,218,0	0.03	6.21e-03	6.21e-03 236,99,99				1.00	0.04	0.96
2003	2.80e-03	0.04	0.0	218,100,0	0.02	0.01	0.01235,217,217		0.12	235	0.87	0.06	0.94
	0.02	2.49e-03	0.0	100,218,0	0.02	2.85e-03	2.85e-03235,221,221				1.00	0.04	0.96
2006	2.80e-03	0.04	0.0	218,100,0	0.02	0.01	0.01235,217,217		0.12	235	0.87	0.06	0.94
	4.64e-03	2.49e-03	0.0	219,218,0	0.02	1.39e-03	1.39e-03235,217,217				1.00	0.04	0.96
2007	0.01	0.04	0.0	222,223,0	0.02	0.01	0.01235,217,220		0.12	235	0.87	0.06	0.94
	7.60e-03	2.49e-03	0.0	100,218,0	0.02	1.39e-03	1.39e-03235,217,217				1.00	0.04	0.96
2024	0.05	0.06	0.0	234,235,0	0.04	2.46e-03	0.01236,217,223		0.15	236	0.87	0.06	0.94
	0.07	0.05	0.0	236,233,0	0.04	1.25e-03	1.25e-03236,217,217				1.00	0.04	0.96
2034	0.05	0.06	0.0	234,235,0	0.04	9.22e-03	0.02236,218,219		0.15	236	0.87	0.06	0.94
	0.08	0.06	0.0	236,233,0	0.04	1.53e-03	1.53e-03236,221,221				1.00	0.04	0.96
2338	0.06	0.05	0.0	99,235,0	0.09	0.03	0.03 100,99,99		0.24	100	0.87	0.06	0.94
	0.09	0.01	0.0	100,221,0	0.09	0.02	0.02100,221,221				1.00	0.04	0.96
2339	0.06	0.05	0.0	99,231,0	0.09	0.02	0.02 100,99,99		0.24	100	0.87	0.06	0.94

	0.09	0.01	0.0 100,221,0	0.09	0.02	0.02100,221,221			1.00	0.04	0.96
2432	0.03	0.04	0.0 103,105,0	0.08	6.89e-03	8.46e-03100,99,219	0.22	100	0.87	0.06	0.94
	0.01	7.09e-03	0.0 99,219,0	0.08	5.01e-03	5.01e-03100,219,219			1.00	0.04	0.96
2433	0.02	0.05	0.0 234,100,0	0.09	7.23e-03	0.01100,217,223	0.23	100	0.87	0.06	0.94
	0.09	0.01	0.0 100,221,0	0.09	9.40e-03	9.40e-03100,221,221			1.00	0.04	0.96
2434	0.01	0.05	0.0 230,100,0	0.09	4.44e-03	0.01100,219,219	0.23	100	0.87	0.06	0.94
	0.09	0.01	0.0 100,221,0	0.09	5.02e-03	5.02e-03 100,99,99			1.00	0.04	0.96
2435	0.01	0.04	0.0 218,219,0	0.08	3.73e-03	0.01100,221,219	0.22	100	0.87	0.06	0.94
	0.02	7.23e-03	0.0 217,217,0	0.08	4.97e-03	4.97e-03100,221,221			1.00	0.04	0.96
2436	5.34e-03	0.05	0.0 222,100,0	0.04	8.90e-03	0.01240,217,220	0.16	240	0.87	0.06	0.94
	0.06	6.15e-03	0.0 100,221,0	0.04	6.21e-03	6.21e-03 240,99,99			1.00	0.04	0.96
2437	0.01	0.05	0.0 218,100,0	0.04	5.41e-03	0.01240,220,220	0.16	240	0.87	0.06	0.94
	0.06	7.23e-03	0.0 100,217,0	0.04	5.02e-03	5.02e-03 240,99,99			1.00	0.04	0.96
2438	0.02	0.04	0.0 218,219,0	0.04	2.98e-03	0.01240,219,219	0.16	240	0.87	0.06	0.94
	0.02	7.23e-03	0.0 217,217,0	0.04	2.31e-03	2.31e-03240,221,221			1.00	0.04	0.96
2439	0.01	0.04	0.0 222,100,0	0.03	0.01	0.01236,217,220	0.14	236	0.87	0.06	0.94
	0.03	2.49e-03	0.0 100,218,0	0.03	3.11e-03	3.11e-03 236,99,99			1.00	0.04	0.96
2440	0.03	0.04	0.0 222,223,0	0.03	7.22e-03	0.01236,217,220	0.14	236	0.87	0.06	0.94
	0.03	4.92e-03	0.0 100,221,0	0.03	3.11e-03	3.11e-03 236,99,99			1.00	0.04	0.96
2441	0.03	0.05	0.0 240,237,0	0.03	3.72e-03	0.01236,220,223	0.14	236	0.87	0.06	0.94
	0.01	7.54e-03	0.0 233,236,0	0.03	2.31e-03	2.31e-03236,221,221			1.00	0.04	0.96
2442	0.01	0.06	0.0 221,105,0	0.08	2.48e-03	9.11e-03100,105,105	0.22	100	0.87	0.06	0.94
	0.02	0.02	0.0 240,239,0	0.08	5.16e-03	5.16e-03100,224,224			1.00	0.04	0.96
2443	0.01	0.07	0.0 222,105,0	0.09	9.82e-03	0.02100,221,105	0.24	100	0.87	0.06	0.94
	0.02	0.05	0.0 240,107,0	0.09	6.00e-03	6.00e-03100,107,107			1.00	0.04	0.96
2447	0.01	0.04	0.0 218,219,0	0.08	2.39e-03	9.41e-03100,220,219	0.22	100	0.87	0.06	0.94
	0.03	0.03	0.0 236,233,0	0.08	2.06e-03	2.06e-03100,221,221			1.00	0.04	0.96
2448	0.01	0.03	0.0 218,107,0	0.09	4.87e-03	9.50e-03100,224,219	0.24	100	0.87	0.06	0.94
	0.03	0.05	0.0 236,107,0	0.09	2.06e-03	2.06e-03100,221,221			1.00	0.04	0.96
2449	0.02	0.03	0.0 221,219,0	0.04	3.32e-03	0.01240,217,224	0.16	240	0.87	0.06	0.94
	0.05	0.04	0.0 236,233,0	0.04	1.79e-03	1.79e-03240,219,219			1.00	0.04	0.96
2450	0.02	0.03	0.0 221,224,0	0.04	5.72e-03	0.01100,219,219	0.15	100	0.87	0.06	0.94
	0.05	0.05	0.0 236,233,0	0.04	2.03e-03	2.03e-03100,107,107			1.00	0.04	0.96
2451	0.05	0.06	0.0 234,235,0	0.04	3.32e-03	0.01236,217,223	0.15	236	0.87	0.06	0.94
	0.07	0.05	0.0 236,233,0	0.04	1.79e-03	1.79e-03236,219,219			1.00	0.04	0.96
2452	0.05	0.06	0.0 234,235,0	0.04	9.22e-03	0.02236,218,219	0.15	236	0.87	0.06	0.94
	0.08	0.06	0.0 236,233,0	0.04	1.79e-03	1.79e-03236,219,219			1.00	0.04	0.96
2455	8.99e-03	0.13	0.0 222,105,0	0.09	0.01	0.03100,107,105	0.24	100	0.87	0.06	0.94
	0.01	0.08	0.0 230,107,0	0.09	8.20e-03	8.20e-03100,107,107			1.00	0.04	0.96
2456	3.25e-03	0.06	0.0 218,107,0	0.04	9.46e-03	0.01100,221,107	0.16	100	0.87	0.06	0.94
	3.04e-03	0.04	0.0 227,107,0	0.04	3.02e-03	3.02e-03100,217,217			1.00	0.04	0.96
2457	8.99e-03	0.03	0.0 222,107,0	0.09	6.88e-03	9.50e-03100,219,219	0.24	100	0.87	0.06	0.94
	0.03	0.05	0.0 238,107,0	0.09	2.93e-03	2.93e-03100,105,105			1.00	0.04	0.96
2458	3.25e-03	0.02	0.0 218,107,0	0.04	6.88e-03	8.57e-03100,219,219	0.16	100	0.87	0.06	0.94
	1.62e-03	0.04	0.0 222,107,0	0.04	2.93e-03	2.93e-03100,105,105			1.00	0.04	0.96
2459	0.01	0.02	0.0 221,224,0	0.04	8.99e-03	0.01100,219,219	0.15	100	0.87	0.06	0.94
	0.05	0.05	0.0 238,233,0	0.04	2.03e-03	2.03e-03100,107,107			1.00	0.04	0.96
2460	4.97e-03	6.42e-03	0.0 221,224,0	0.02	8.99e-03	0.01100,219,219	0.10	100	0.87	0.06	0.94
	0.0	0.03	0.0 0,107,0	0.02	2.00e-03	2.00e-03100,105,105			0.0	0.0	0.0
2479	0.04	0.04	0.0 238,239,0	0.01	0.01	0.02100,219,219	0.08	100	0.87	0.06	0.94
	0.08	0.06	0.0 236,233,0	0.01	1.53e-03	1.53e-03100,221,221			1.00	0.04	0.96
2480	0.01	0.01	0.0 238,239,0	3.97e-03	0.01	0.0199,219,219	0.05	99	0.87	0.06	0.94
	3.95e-03	0.02	0.0 227,107,0	3.97e-03	1.12e-03	1.12e-0399,219,219			1.00	0.04	0.96
2496	0.04	0.04	0.0 238,239,0	2.54e-03	0.01	0.02239,219,219	0.04	239	0.87	0.06	0.94
	0.08	0.06	0.0 236,233,0	2.54e-03	1.53e-03	1.53e-03239,221,221			1.00	0.04	0.96
2574	0.01	0.01	0.0 238,239,0	2.54e-03	0.01	0.01239,219,219	0.04	239	0.87	0.06	0.94
	3.95e-03	9.34e-03	0.0 227,107,0	2.54e-03	1.11e-03	1.11e-03239,219,219			1.00	0.04	0.96
2754	0.06	0.03	0.0 99,105,0	0.09	0.03	0.03 100,99,99	0.24	100	0.87	0.06	0.94
	0.08	0.01	0.0 100,221,0	0.09	0.02	0.02100,221,221			1.00	0.04	0.96
2756	0.06	0.03	0.0 99,105,0	0.09	0.02	0.02 100,99,99	0.24	100	0.87	0.06	0.94
	0.08	8.70e-03	0.0 100,221,0	0.09	0.02	0.02100,221,221			1.00	0.04	0.96
2758	0.03	0.04	0.0 103,105,0	0.05	6.89e-03	8.27e-03100,99,107	0.18	100	0.87	0.06	0.94
	0.01	3.54e-03	0.0 99,219,0	0.05	5.01e-03	5.01e-03100,219,219			1.00	0.04	0.96
2760	0.01	0.06	0.0 221,105,0	0.05	2.48e-03	9.11e-03107,105,105	0.17	107	0.87	0.06	0.94
	6.52e-03	7.36e-03	0.0 219,221,0	0.05	5.16e-03	5.16e-03107,224,224			1.00	0.04	0.96
2762	6.46e-03	0.07	0.0 221,105,0	0.08	9.82e-03	0.02107,221,105	0.22	107	0.87	0.06	0.94
	6.09e-03	0.04	0.0 224,107,0	0.08	6.00e-03	6.00e-03107,107,107			1.00	0.04	0.96
2764	2.80e-03	0.13	0.0 213,105,0	0.08	0.01	0.03107,107,105	0.22	107	0.87	0.06	0.94
	9.69e-03	0.08	0.0 218,107,0	0.08	8.20e-03	8.20e-03107,107,107			1.00	0.04	0.96
2766	1.36e-03	0.13	0.0 218,105,0	0.02	0.01	0.03107,107,105	0.11	107	0.87	0.06	0.94
	9.69e-03	0.08	0.0 218,107,0	0.02	8.20e-03	8.20e-03107,107,107			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.09	0.13	0.0	0.09	0.03	0.03	0.24

Setto	Mat.	N. strati	Spessore	Incoll.	Stato

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
29	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.90	-300.3	187	0.80	-264.3	187	0.76	-2615.4	-1.091e+07	237

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
363	0.11	0.12	0.0	220,217,0	0.18	2.72e-03	0.01219,228,209		0.33	219	0.85	0.06	0.94
	3.60e-03	5.29e-03	0.0	228,44,0	0.18	3.57e-03	3.57e-03219,228,228				1.00	0.04	0.96
364	0.11	0.12	0.0	220,217,0	0.18	2.72e-03	0.01219,228,209		0.33	219	0.85	0.06	0.94
	1.01e-03	3.33e-03	0.0	231,44,0	0.18	1.05e-03	1.05e-03219,228,228				1.00	0.04	0.96
365	0.09	0.11	0.0	220,217,0	0.16	1.13e-03	0.01219,225,209		0.31	219	0.85	0.06	0.94
	4.00e-03	6.62e-03	0.0	19,44,0	0.16	3.57e-03	3.57e-03219,228,228				1.00	0.04	0.96
366	0.08	0.10	0.0	220,217,0	0.15	1.76e-03	0.01219,225,209		0.30	219	0.85	0.06	0.94
	4.43e-03	7.14e-03	0.0	19,44,0	0.15	3.32e-03	3.32e-03219,228,228				1.00	0.04	0.96
379	0.06	0.09	0.0	220,217,0	0.14	1.76e-03	0.01219,225,209		0.29	219	0.85	0.06	0.94
	4.43e-03	7.14e-03	0.0	19,44,0	0.14	2.83e-03	2.83e-03219,228,228				1.00	0.04	0.96
380	0.05	0.08	0.0	220,217,0	0.13	1.33e-03	9.68e-03219,228,209		0.28	219	0.85	0.06	0.94
	3.82e-03	6.99e-03	0.0	19,44,0	0.13	2.04e-03	2.04e-03219,228,228				1.00	0.04	0.96
393	0.04	0.08	0.0	220,209,0	0.14	1.33e-03	9.46e-03219,228,217		0.29	219	0.85	0.06	0.94
	2.05e-03	6.80e-03	0.0	19,44,0	0.14	1.23e-03	1.23e-03219,228,228				1.00	0.04	0.96
394	0.03	0.08	0.0	212,209,0	0.15	1.07e-03	9.46e-03218,227,217		0.29	218	0.85	0.06	0.94
	2.23e-03	6.23e-03	0.0	227,44,0	0.15	8.29e-04	8.29e-04218,228,228				1.00	0.04	0.96
747	0.24	0.23	0.0	237,240,0	0.17	6.14e-03	0.04219,233,240		0.32	219	0.85	0.06	0.94
	0.01	9.45e-03	0.0	237,240,0	0.17	7.26e-03	7.26e-03219,233,233				1.00	0.04	0.96
748	0.24	0.23	0.0	237,240,0	0.17	6.14e-03	0.04219,233,240		0.32	219	0.85	0.06	0.94
	7.13e-03	5.44e-03	0.0	237,240,0	0.17	2.32e-03	2.32e-03219,240,240				1.00	0.04	0.96
749	0.21	0.21	0.0	237,240,0	0.15	5.84e-03	0.03219,236,240		0.30	219	0.85	0.06	0.94
	0.01	9.45e-03	0.0	237,240,0	0.15	7.26e-03	7.26e-03219,233,233				1.00	0.04	0.96
750	0.18	0.18	0.0	237,240,0	0.14	0.01	0.03219,236,236		0.29	219	0.85	0.06	0.94
	0.01	7.39e-03	0.0	233,236,0	0.14	6.24e-03	6.24e-03219,233,233				1.00	0.04	0.96
761	0.16	0.16	0.0	237,240,0	0.13	0.01	0.04219,236,236		0.28	219	0.85	0.06	0.94
	0.02	9.84e-03	0.0	238,239,0	0.13	8.07e-03	8.07e-03219,240,240				1.00	0.04	0.96
762	0.15	0.15	0.0	237,240,0	0.18	0.01	0.04223,236,236		0.33	223	0.85	0.06	0.94
	0.12	0.08	0.0	223,222,0	0.18	0.02	0.02223,234,234				1.00	0.04	0.96
773	0.14	0.14	0.0	237,240,0	0.18	0.03	0.05223,234,234		0.33	223	0.85	0.06	0.94
	0.13	0.09	0.0	223,222,0	0.18	0.02	0.02223,234,234				1.00	0.04	0.96
774	0.11	0.11	0.0	233,236,0	0.03	0.03	0.05223,234,234		0.12	223	0.85	0.06	0.94
	0.13	0.09	0.0	223,222,0	0.03	9.18e-03	9.18e-03223,234,234				1.00	0.04	0.96
778	0.11	0.12	0.0	220,217,0	0.20	2.72e-03	0.01219,228,209		0.34	219	0.85	0.06	0.94
	9.11e-03	6.72e-03	0.0	231,230,0	0.20	3.57e-03	3.57e-03219,228,228				1.00	0.04	0.96
779	0.11	0.12	0.0	220,217,0	0.19	2.72e-03	0.01219,228,209		0.34	219	0.85	0.06	0.94
	4.36e-03	3.37e-03	0.0	231,230,0	0.19	1.05e-03	1.05e-03219,228,228				1.00	0.04	0.96
780	0.09	0.11	0.0	220,217,0	0.20	1.13e-03	0.01219,225,209		0.34	219	0.85	0.06	0.94
	9.63e-03	7.07e-03	0.0	228,230,0	0.20	3.57e-03	3.57e-03219,228,228				1.00	0.04	0.96
781	0.08	0.10	0.0	220,217,0	0.20	1.76e-03	0.01219,225,209		0.34	219	0.85	0.06	0.94
	9.63e-03	7.14e-03	0.0	228,44,0	0.20	3.32e-03	3.32e-03219,228,228				1.00	0.04	0.96
782	0.01	0.06	0.0	220,217,0	0.20	1.26e-03	7.38e-03219,225,229		0.34	219	0.85	0.06	0.94
	9.11e-03	6.72e-03	0.0	231,230,0	0.20	7.88e-04	7.88e-04219,228,228				1.00	0.04	0.96
783	6.99e-03	0.06	0.0	220,217,0	0.19	1.26e-03	7.38e-03219,225,229		0.34	219	0.85	0.06	0.94
	4.36e-03	3.37e-03	0.0	231,230,0	0.19	6.82e-04	6.82e-04219,234,234				1.00	0.04	0.96
784	0.01	0.06	0.0	220,217,0	0.20	1.02e-03	7.29e-03219,227,229		0.34	219	0.85	0.06	0.94
	9.63e-03	7.07e-03	0.0	228,230,0	0.20	7.88e-04	7.88e-04219,228,228				1.00	0.04	0.96
785	0.01	0.06	0.0	220,217,0	0.20	6.61e-04	7.11e-03219,227,229		0.34	219	0.85	0.06	0.94
	9.63e-03	7.20e-03	0.0	228,230,0	0.20	8.42e-04	8.42e-04219,228,228				1.00	0.04	0.96
786	0.0	0.05	0.0	0,100,0	0.20	1.72e-03	5.93e-03219,225,229		0.34	219	0.0	0.0	0.0
	7.05e-03	5.44e-03	0.0	231,230,0	0.20	7.88e-04	7.88e-04219,228,228				1.00	0.04	0.96
787	0.0	0.05	0.0	0,100,0	0.20	1.72e-03	5.82e-03219,225,225		0.34	219	0.0	0.0	0.0
	2.92e-03	2.43e-03	0.0	212,230,0	0.20	6.82e-04	6.82e-04219,234,234				1.00	0.04	0.96
788	0.0	0.05	0.0	0,100,0	0.20	1.35e-03	5.93e-03219,229,229		0.34	219	0.0	0.0	0.0
	9.04e-03	6.90e-03	0.0	231,230,0	0.20	8.96e-04	8.96e-04219,228,228				1.00	0.04	0.96
789	0.0	0.05	0.0	0,100,0	0.20	8.43e-04	5.86e-03219,229,229		0.34	219	0.0	0.0	0.0
	9.32e-03	7.20e-03	0.0	231,230,0	0.20	8.96e-04	8.96e-04219,228,228				1.00	0.04	0.96
790	0.0	0.05	0.0	0,100,0	0.20	1.85e-03	5.80e-03219,225,229		0.34	219	0.0	0.0	0.0
	5.13e-03	3.92e-03	0.0	231,230,0	0.20	7.33e-04	7.33e-04219,228,228				1.00	0.04	0.96
791	0.0	0.05	0.0	0,100,0	0.20	1.85e-03	5.54e-03219,225,225		0.34	219	0.0	0.0	0.0
	2.01e-03	1.61e-03	0.0	212,230,0	0.20	5.84e-04	5.84e-04219,226,226				1.00	0.04	0.96
792	0.0	0.05	0.0	0,100,0	0.20	1.52e-03	5.80e-03219,225,229		0.34	219	0.0	0.0	0.0
	7.42e-03	5.51e-03	0.0	231,230,0	0.20	8.96e-04	8.96e-04219,228,228				1.00	0.04	0.96
793	0.0	0.05	0.0	0,100,0	0.20	9.84e-04	5.73e-03219,228,229		0.34	219	0.0	0.0	0.0

	8.83e-03	6.52e-03	0.0	231,230,0	0.20	8.96e-04	8.96e-04	219,228,228			1.00	0.04	0.96
794	0.0	0.05	0.0	0,100,0	0.20	1.85e-03	5.69e-03	219,225,225	0.34	219	0.0	0.0	0.0
	4.24e-03	3.02e-03	0.0	231,230,0	0.20	5.89e-04	5.89e-04	219,228,228			1.00	0.04	0.96
795	0.0	0.05	0.0	0,100,0	0.20	1.85e-03	5.57e-03	219,225,100	0.34	219	0.0	0.0	0.0
	1.61e-03	1.19e-03	0.0	235,230,0	0.20	3.75e-04	3.75e-04	219,234,234			1.00	0.04	0.96
796	0.0	0.05	0.0	0,100,0	0.20	1.52e-03	5.69e-03	219,225,225	0.34	219	0.0	0.0	0.0
	6.19e-03	4.30e-03	0.0	231,230,0	0.20	7.36e-04	7.36e-04	219,228,228			1.00	0.04	0.96
797	0.0	0.05	0.0	0,100,0	0.20	1.01e-03	5.67e-03	219,225,225	0.35	219	0.0	0.0	0.0
	7.85e-03	5.38e-03	0.0	231,230,0	0.20	8.26e-04	8.26e-04	219,228,228			1.00	0.04	0.96
798	0.0	0.05	0.0	0,100,0	0.20	1.83e-03	5.57e-03	219,225,100	0.34	219	0.0	0.0	0.0
	5.10e-03	3.00e-03	0.0	233,236,0	0.20	5.08e-04	5.08e-04	219,230,230			1.00	0.04	0.96
799	0.0	0.05	0.0	0,100,0	0.20	1.83e-03	5.57e-03	219,225,100	0.34	219	0.0	0.0	0.0
	2.10e-03	1.24e-03	0.0	233,236,0	0.20	4.16e-04	4.16e-04	219,234,234			1.00	0.04	0.96
800	0.0	0.05	0.0	0,100,0	0.20	1.52e-03	5.53e-03	219,225,100	0.35	219	0.0	0.0	0.0
	6.06e-03	3.64e-03	0.0	235,234,0	0.20	5.68e-04	5.68e-04	219,226,226			1.00	0.04	0.96
801	0.0	0.05	0.0	0,100,0	0.21	1.01e-03	5.48e-03	219,225,100	0.35	219	0.0	0.0	0.0
	8.09e-03	4.70e-03	0.0	235,226,0	0.21	6.26e-04	6.26e-04	219,226,226			1.00	0.04	0.96
802	0.0	0.05	0.0	0,100,0	0.20	1.74e-03	5.52e-03	219,225,100	0.34	219	0.0	0.0	0.0
	6.64e-03	4.30e-03	0.0	237,240,0	0.20	5.69e-04	5.69e-04	219,230,230			1.00	0.04	0.96
803	0.0	0.05	0.0	0,100,0	0.20	1.74e-03	5.52e-03	219,225,100	0.34	219	0.0	0.0	0.0
	2.91e-03	1.89e-03	0.0	237,240,0	0.20	4.16e-04	4.16e-04	219,234,234			1.00	0.04	0.96
804	0.0	0.05	0.0	0,100,0	0.20	1.45e-03	5.48e-03	219,225,100	0.35	219	0.0	0.0	0.0
	7.61e-03	4.82e-03	0.0	235,234,0	0.20	6.63e-04	6.63e-04	219,226,226			1.00	0.04	0.96
805	0.0	0.05	0.0	0,100,0	0.21	9.91e-04	5.44e-03	219,225,100	0.35	219	0.0	0.0	0.0
	8.23e-03	4.92e-03	0.0	235,234,0	0.21	6.63e-04	6.63e-04	219,226,226			1.00	0.04	0.96
806	0.0	0.05	0.0	0,100,0	0.20	1.81e-03	5.72e-03	219,225,228	0.34	219	0.0	0.0	0.0
	8.47e-03	5.82e-03	0.0	237,240,0	0.20	6.00e-04	6.00e-04	219,225,225			1.00	0.04	0.96
807	0.0	0.05	0.0	0,100,0	0.20	1.81e-03	5.52e-03	219,225,228	0.34	219	0.0	0.0	0.0
	3.77e-03	2.59e-03	0.0	237,240,0	0.20	6.00e-04	6.00e-04	219,225,225			1.00	0.04	0.96
808	0.0	0.05	0.0	0,100,0	0.20	1.37e-03	5.72e-03	219,225,228	0.35	219	0.0	0.0	0.0
	9.15e-03	6.23e-03	0.0	233,236,0	0.20	6.63e-04	6.63e-04	219,226,226			1.00	0.04	0.96
809	0.0	0.05	0.0	0,100,0	0.21	8.90e-04	5.45e-03	219,225,228	0.35	219	0.0	0.0	0.0
	0.01	6.72e-03	0.0	239,238,0	0.21	8.44e-04	8.44e-04	219,226,226			1.00	0.04	0.96
810	4.36e-03	0.05	0.0	237,100,0	0.20	2.22e-03	6.93e-03	219,236,236	0.34	219	0.85	0.06	0.94
	0.01	6.03e-03	0.0	237,240,0	0.20	1.27e-03	1.27e-03	219,233,233			1.00	0.04	0.96
811	1.83e-03	0.05	0.0	237,100,0	0.20	2.22e-03	6.93e-03	219,236,236	0.34	219	0.85	0.06	0.94
	4.74e-03	2.83e-03	0.0	237,240,0	0.20	9.56e-04	9.56e-04	219,225,225			1.00	0.04	0.96
812	5.54e-03	0.05	0.0	237,100,0	0.20	1.42e-03	6.86e-03	219,226,240	0.35	219	0.85	0.06	0.94
	0.01	6.23e-03	0.0	237,236,0	0.20	1.27e-03	1.27e-03	219,233,233			1.00	0.04	0.96
813	5.54e-03	0.05	0.0	237,100,0	0.21	8.53e-04	6.44e-03	219,234,240	0.35	219	0.85	0.06	0.94
	0.01	8.31e-03	0.0	235,234,0	0.21	9.77e-04	9.77e-04	219,233,233			1.00	0.04	0.96
814	0.03	0.06	0.0	237,240,0	0.20	2.34e-03	8.90e-03	219,238,240	0.34	219	0.85	0.06	0.94
	0.02	0.01	0.0	237,240,0	0.20	2.91e-03	2.91e-03	219,236,236			1.00	0.04	0.96
815	0.03	0.06	0.0	237,240,0	0.19	2.34e-03	8.85e-03	219,238,236	0.34	219	0.85	0.06	0.94
	8.02e-03	5.24e-03	0.0	237,240,0	0.19	1.70e-03	1.70e-03	219,225,225			1.00	0.04	0.96
816	0.03	0.06	0.0	237,240,0	0.20	1.82e-03	8.90e-03	219,234,240	0.35	219	0.85	0.06	0.94
	0.02	0.01	0.0	237,240,0	0.20	2.91e-03	2.91e-03	219,236,236			1.00	0.04	0.96
817	0.03	0.06	0.0	237,240,0	0.21	9.33e-04	8.46e-03	219,234,240	0.35	219	0.85	0.06	0.94
	0.01	8.31e-03	0.0	237,234,0	0.21	2.79e-03	2.79e-03	219,236,236			1.00	0.04	0.96
818	0.07	0.09	0.0	237,240,0	0.20	2.34e-03	0.01	219,238,240	0.34	219	0.85	0.06	0.94
	0.02	0.02	0.0	237,240,0	0.20	2.91e-03	2.91e-03	219,236,236			1.00	0.04	0.96
819	0.07	0.08	0.0	237,240,0	0.19	2.34e-03	0.01	219,238,240	0.34	219	0.85	0.06	0.94
	0.01	8.90e-03	0.0	237,240,0	0.19	2.14e-03	2.14e-03	219,225,225			1.00	0.04	0.96
820	0.07	0.09	0.0	237,240,0	0.20	2.72e-03	0.01	219,238,236	0.35	219	0.85	0.06	0.94
	0.02	0.02	0.0	237,240,0	0.20	2.91e-03	2.91e-03	219,236,236			1.00	0.04	0.96
821	0.08	0.09	0.0	237,240,0	0.21	2.72e-03	0.01	219,238,236	0.35	219	0.85	0.06	0.94
	0.02	0.01	0.0	237,240,0	0.21	2.79e-03	2.79e-03	219,236,236			1.00	0.04	0.96
822	0.24	0.23	0.0	237,240,0	0.20	6.14e-03	0.04	219,233,240	0.34	219	0.85	0.06	0.94
	0.02	0.02	0.0	237,240,0	0.20	7.26e-03	7.26e-03	219,233,233			1.00	0.04	0.96
823	0.24	0.23	0.0	237,240,0	0.19	6.14e-03	0.04	219,233,240	0.34	219	0.85	0.06	0.94
	0.01	8.90e-03	0.0	237,240,0	0.19	2.32e-03	2.32e-03	219,240,240			1.00	0.04	0.96
824	0.21	0.21	0.0	237,240,0	0.20	5.84e-03	0.03	219,236,240	0.34	219	0.85	0.06	0.94
	0.02	0.02	0.0	237,240,0	0.20	7.26e-03	7.26e-03	219,233,233			1.00	0.04	0.96
825	0.18	0.18	0.0	237,240,0	0.20	0.01	0.03	219,236,236	0.35	219	0.85	0.06	0.94
	0.02	0.01	0.0	237,240,0	0.20	6.24e-03	6.24e-03	219,233,233			1.00	0.04	0.96
826	0.06	0.09	0.0	220,217,0	0.19	1.76e-03	0.01	219,225,209	0.34	219	0.85	0.06	0.94
	8.61e-03	7.14e-03	0.0	228,44,0	0.19	2.83e-03	2.83e-03	219,228,228			1.00	0.04	0.96
827	0.05	0.08	0.0	220,217,0	0.19	1.33e-03	9.68e-03	219,228,209	0.33	219	0.85	0.06	0.94
	6.61e-03	6.99e-03	0.0	212,44,0	0.19	2.04e-03	2.04e-03	219,228,228			1.00	0.04	0.96
828	0.01	0.06	0.0	220,217,0	0.20	5.24e-04	6.74e-03	219,227,217	0.34	219	0.85	0.06	0.94
	9.32e-03	7.20e-03	0.0	231,230,0	0.20	8.42e-04	8.42e-04	219,228,228			1.00	0.04	0.96
829	0.01	0.06	0.0	220,217,0	0.19	1.06e-03	6.59e-03	219,227,229	0.34	219	0.85	0.06	0.94
	8.69e-03	6.89e-03	0.0	212,230,0	0.19	9.48e-04	9.48e-04	219,228,228			1.00	0.04	0.96
830	0.0	0.05	0.0	0,100,0	0.20	6.11e-04	5.64e-03	219,225,229	0.34	219	0.0	0.0	0.0
	9.45e-03	7.20e-03	0.0	231,230,0	0.20	8.57e-04	8.57e-04	219,228,228			1.00	0.04	0.96
831	0.0	0.05	0.0	0,100,0	0.20	1.39e-03	5.90e-03	219,229,229	0.34	219	0.0	0.0	0.0
	9.88e-03	7.34e-03	0.0	219,218,0	0.20	6.85e-04	6.85e-04	219,228,228			1.00	0.04	0.96

832	0.0	0.05	0.0	0,100,0	0.20	7.09e-04	5.51e-03	219,225,229	0.34	219	0.0	0.0	0.0
	0.01	7.03e-03	0.0	219,230,0	0.20	8.57e-04	8.57e-04	219,228,228			1.00	0.04	0.96
833	0.0	0.05	0.0	0,100,0	0.20	1.64e-03	5.88e-03	219,228,225	0.34	219	0.0	0.0	0.0
	0.01	8.07e-03	0.0	219,218,0	0.20	7.53e-04	7.53e-04	219,228,228			1.00	0.04	0.96
834	0.0	0.05	0.0	0,100,0	0.20	7.09e-04	5.47e-03	219,225,225	0.35	219	0.0	0.0	0.0
	0.01	7.35e-03	0.0	219,218,0	0.20	8.26e-04	8.26e-04	219,228,228			1.00	0.04	0.96
835	0.0	0.05	0.0	0,100,0	0.20	1.67e-03	5.88e-03	219,225,225	0.34	219	0.0	0.0	0.0
	0.02	9.54e-03	0.0	219,218,0	0.20	7.53e-04	7.53e-04	219,228,228			1.00	0.04	0.96
836	0.0	0.05	0.0	0,100,0	0.21	7.09e-04	5.44e-03	219,225,100	0.35	219	0.0	0.0	0.0
	0.01	8.35e-03	0.0	223,222,0	0.21	6.26e-04	6.26e-04	219,226,226			1.00	0.04	0.96
837	0.0	0.05	0.0	0,100,0	0.20	1.67e-03	5.70e-03	219,225,225	0.35	219	0.0	0.0	0.0
	0.02	0.01	0.0	223,222,0	0.20	5.69e-04	5.69e-04	219,226,226			1.00	0.04	0.96
838	0.0	0.05	0.0	0,100,0	0.21	6.41e-04	5.38e-03	219,225,100	0.35	219	0.0	0.0	0.0
	0.02	9.79e-03	0.0	223,222,0	0.21	6.39e-04	6.39e-04	219,226,226			1.00	0.04	0.96
839	0.0	0.05	0.0	0,100,0	0.21	1.58e-03	5.44e-03	219,225,228	0.35	219	0.0	0.0	0.0
	0.03	0.02	0.0	223,222,0	0.21	4.65e-04	4.65e-04	219,230,230			1.00	0.04	0.96
840	0.0	0.05	0.0	0,100,0	0.21	7.00e-04	5.32e-03	219,225,228	0.35	219	0.0	0.0	0.0
	0.02	0.01	0.0	223,222,0	0.21	8.44e-04	8.44e-04	219,226,226			1.00	0.04	0.96
841	0.0	0.05	0.0	0,100,0	0.21	1.48e-03	5.34e-03	219,225,228	0.35	219	0.0	0.0	0.0
	0.03	0.02	0.0	223,222,0	0.21	8.16e-04	8.16e-04	219,226,226			1.00	0.04	0.96
842	5.29e-03	0.05	0.0	237,100,0	0.21	1.15e-03	6.44e-03	219,234,240	0.35	219	0.85	0.06	0.94
	0.02	0.01	0.0	215,214,0	0.21	2.14e-03	2.14e-03	219,234,234			1.00	0.04	0.96
843	4.07e-03	0.04	0.0	237,100,0	0.21	1.32e-03	6.29e-03	219,225,240	0.35	219	0.85	0.06	0.94
	0.05	0.03	0.0	223,222,0	0.21	2.14e-03	2.14e-03	219,234,234			1.00	0.04	0.96
844	0.03	0.06	0.0	237,240,0	0.21	2.00e-03	8.69e-03	219,234,240	0.36	219	0.85	0.06	0.94
	0.03	0.02	0.0	235,234,0	0.21	3.53e-03	3.53e-03	219,234,234			1.00	0.04	0.96
845	0.03	0.05	0.0	237,240,0	0.21	2.00e-03	8.69e-03	219,234,240	0.36	219	0.85	0.06	0.94
	0.07	0.04	0.0	223,222,0	0.21	5.46e-03	5.46e-03	219,234,234			1.00	0.04	0.96
846	0.08	0.09	0.0	237,240,0	0.21	2.57e-03	0.01	219,236,236	0.36	219	0.85	0.06	0.94
	0.03	0.02	0.0	235,234,0	0.21	3.53e-03	3.53e-03	219,234,234			1.00	0.04	0.96
847	0.08	0.09	0.0	237,240,0	0.23	4.55e-03	0.02	219,234,234	0.37	219	0.85	0.06	0.94
	0.10	0.06	0.0	223,222,0	0.23	6.68e-03	6.68e-03	219,234,234			1.00	0.04	0.96
848	0.16	0.16	0.0	237,240,0	0.21	0.01	0.04	219,236,236	0.36	219	0.85	0.06	0.94
	0.02	0.02	0.0	239,238,0	0.21	8.07e-03	8.07e-03	219,240,240			1.00	0.04	0.96
849	0.15	0.15	0.0	237,240,0	0.23	0.01	0.04	219,236,236	0.37	219	0.85	0.06	0.94
	0.12	0.08	0.0	223,222,0	0.23	0.02	0.02	219,234,234			1.00	0.04	0.96
850	0.04	0.08	0.0	220,209,0	0.18	1.33e-03	9.46e-03	219,228,217	0.32	219	0.85	0.06	0.94
	4.66e-03	6.80e-03	0.0	212,44,0	0.18	1.23e-03	1.23e-03	219,228,228			1.00	0.04	0.96
851	0.02	0.07	0.0	220,217,0	0.17	1.28e-03	7.89e-03	219,227,217	0.31	219	0.85	0.06	0.94
	4.34e-03	4.44e-03	0.0	212,230,0	0.17	5.82e-04	5.82e-04	219,209,209			1.00	0.04	0.96
852	0.02	0.06	0.0	220,217,0	0.19	1.93e-03	6.43e-03	219,227,229	0.33	219	0.85	0.06	0.94
	7.64e-03	6.10e-03	0.0	212,230,0	0.19	1.14e-03	1.14e-03	219,228,228			1.00	0.04	0.96
853	0.02	0.05	0.0	220,217,0	0.18	1.93e-03	6.39e-03	219,227,229	0.33	219	0.85	0.06	0.94
	6.03e-03	4.77e-03	0.0	216,218,0	0.18	1.14e-03	1.14e-03	219,228,228			1.00	0.04	0.96
854	0.0	0.05	0.0	0,100,0	0.19	2.38e-03	6.02e-03	219,229,229	0.34	219	0.0	0.0	0.0
	9.88e-03	7.34e-03	0.0	219,218,0	0.19	1.14e-03	1.14e-03	219,228,228			1.00	0.04	0.96
855	0.0	0.05	0.0	0,100,0	0.18	2.38e-03	6.02e-03	219,229,229	0.33	219	0.0	0.0	0.0
	6.94e-03	4.98e-03	0.0	219,218,0	0.18	1.14e-03	1.14e-03	219,228,228			1.00	0.04	0.96
856	0.0	0.05	0.0	0,100,0	0.19	2.57e-03	6.02e-03	219,228,229	0.34	219	0.0	0.0	0.0
	0.01	8.07e-03	0.0	219,218,0	0.19	7.49e-04	7.49e-04	219,228,228			1.00	0.04	0.96
857	0.0	0.05	0.0	0,100,0	0.19	2.57e-03	6.02e-03	218,228,229	0.33	218	0.0	0.0	0.0
	9.42e-03	6.28e-03	0.0	211,210,0	0.19	7.49e-04	7.49e-04	218,228,228			1.00	0.04	0.96
858	0.0	0.05	0.0	0,100,0	0.19	2.60e-03	5.89e-03	219,225,225	0.34	219	0.0	0.0	0.0
	0.02	9.54e-03	0.0	219,218,0	0.19	9.31e-04	9.31e-04	219,225,225			1.00	0.04	0.96
859	0.0	0.05	0.0	0,100,0	0.19	2.60e-03	5.89e-03	218,225,225	0.33	218	0.0	0.0	0.0
	0.01	6.96e-03	0.0	219,218,0	0.19	9.31e-04	9.31e-04	218,225,225			1.00	0.04	0.96
860	0.0	0.05	0.0	0,100,0	0.20	2.66e-03	5.72e-03	219,225,225	0.34	219	0.0	0.0	0.0
	0.02	0.01	0.0	223,222,0	0.20	9.31e-04	9.31e-04	219,225,225			1.00	0.04	0.96
861	0.0	0.05	0.0	0,100,0	0.18	2.66e-03	5.72e-03	219,225,225	0.33	219	0.0	0.0	0.0
	0.01	8.60e-03	0.0	219,218,0	0.18	9.31e-04	9.31e-04	219,225,225			1.00	0.04	0.96
862	0.0	0.05	0.0	0,100,0	0.20	2.66e-03	5.62e-03	219,225,228	0.34	219	0.0	0.0	0.0
	0.03	0.02	0.0	223,222,0	0.20	6.99e-04	6.99e-04	219,231,231			1.00	0.04	0.96
863	0.0	0.05	0.0	0,100,0	0.18	2.66e-03	5.62e-03	219,225,228	0.33	219	0.0	0.0	0.0
	0.02	9.51e-03	0.0	219,218,0	0.18	6.99e-04	6.99e-04	219,231,231			1.00	0.04	0.96
864	0.0	0.05	0.0	0,100,0	0.20	2.31e-03	5.35e-03	219,225,228	0.34	219	0.0	0.0	0.0
	0.03	0.02	0.0	223,222,0	0.20	7.34e-04	7.34e-04	219,212,212			1.00	0.04	0.96
865	0.0	0.05	0.0	0,100,0	0.18	2.31e-03	5.35e-03	219,225,228	0.33	219	0.0	0.0	0.0
	0.02	0.01	0.0	219,218,0	0.18	7.34e-04	7.34e-04	219,212,212			1.00	0.04	0.96
866	2.48e-03	0.04	0.0	237,100,0	0.20	1.94e-03	5.71e-03	219,227,232	0.34	219	0.85	0.06	0.94
	0.05	0.03	0.0	223,222,0	0.20	1.93e-03	1.93e-03	219,234,234			1.00	0.04	0.96
867	8.14e-04	0.04	0.0	237,100,0	0.17	1.94e-03	5.46e-03	219,227,232	0.32	219	0.85	0.06	0.94
	0.03	0.02	0.0	219,218,0	0.17	1.31e-03	1.31e-03	219,228,228			1.00	0.04	0.96
868	0.02	0.05	0.0	237,240,0	0.21	1.90e-03	7.68e-03	219,234,240	0.35	219	0.85	0.06	0.94
	0.07	0.04	0.0	223,222,0	0.21	5.46e-03	5.46e-03	219,234,234			1.00	0.04	0.96
869	0.02	0.05	0.0	237,240,0	0.16	1.49e-03	6.56e-03	219,225,240	0.31	219	0.85	0.06	0.94
	0.05	0.03	0.0	223,222,0	0.16	3.66e-03	3.66e-03	219,238,238			1.00	0.04	0.96
870	0.07	0.09	0.0	237,240,0	0.23	4.69e-03	0.02	219,234,234	0.37	219	0.85	0.06	0.94

	0.10	0.06	0.0	223,222,0	0.23	9.07e-03	9.07e-03	219,234,234			1.00	0.04	0.96
871	0.07	0.08	0.0	233,236,0	0.14	4.69e-03	0.01	219,234,240	0.29	219	0.85	0.06	0.94
	0.09	0.06	0.0	223,222,0	0.14	9.07e-03	9.07e-03	219,234,234			1.00	0.04	0.96
872	0.14	0.14	0.0	237,240,0	0.23	0.03	0.05	219,234,234	0.37	219	0.85	0.06	0.94
	0.13	0.09	0.0	223,222,0	0.23	0.02	0.02	219,234,234			1.00	0.04	0.96
873	0.11	0.11	0.0	233,236,0	0.12	0.03	0.05	219,234,234	0.26	219	0.85	0.06	0.94
	0.13	0.09	0.0	223,222,0	0.12	9.18e-03	9.18e-03	219,234,234			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.24	0.23	0.0	0.23	0.03	0.05	0.37

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
30	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.95	-419.2	203	0.92	-408.7	203	0.91	-3.149e+04	1.893e+07	240

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
70	0.13	0.13	0.0	233,236,0	0.21	9.99e-03	0.02	234,212,236	0.35	234	0.85	0.06	0.94
	1.35e-03	3.04e-03	0.0	215,214,0	0.21	6.32e-04	6.32e-04	234,219,219			1.00	0.04	0.96
71	0.13	0.13	0.0	233,236,0	0.21	0.01	0.03	234,212,212	0.35	234	0.85	0.06	0.94
	0.01	8.95e-03	0.0	209,212,0	0.21	8.58e-03	8.58e-03	234,212,212			1.00	0.04	0.96
74	0.11	0.13	0.0	233,236,0	0.20	0.01	0.03	234,212,212	0.34	234	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.20	0.02	0.02	234,212,212			1.00	0.04	0.96
76	0.10	0.13	0.0	233,236,0	0.19	0.03	0.04	234,209,212	0.33	234	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.19	0.02	0.02	234,212,212			1.00	0.04	0.96
82	0.08	0.11	0.0	233,236,0	0.18	0.03	0.04	234,209,212	0.32	234	0.85	0.06	0.94
	0.02	0.01	0.0	212,212,0	0.18	0.01	0.01	234,212,212			1.00	0.04	0.96
84	0.06	0.10	0.0	233,236,0	0.18	0.03	0.04	234,212,212	0.32	234	0.85	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.18	0.01	0.01	234,209,209			1.00	0.04	0.96
88	0.06	0.10	0.0	233,236,0	0.18	0.03	0.04	234,209,212	0.32	234	0.85	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.18	0.01	0.01	234,209,209			1.00	0.04	0.96
90	0.05	0.10	0.0	233,236,0	0.21	0.03	0.04	234,209,212	0.36	234	0.85	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.21	2.35e-03	2.35e-03	234,209,209			1.00	0.04	0.96
874	0.13	0.13	0.0	233,236,0	0.23	0.01	0.03	235,212,212	0.37	235	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.23	8.58e-03	8.58e-03	235,212,212			1.00	0.04	0.96
875	0.13	0.13	0.0	233,236,0	0.22	9.99e-03	0.02	235,212,236	0.36	235	0.85	0.06	0.94
	8.39e-03	5.21e-03	0.0	215,214,0	0.22	6.32e-04	6.32e-04	235,219,219			1.00	0.04	0.96
876	0.11	0.13	0.0	233,236,0	0.23	0.01	0.03	235,212,212	0.37	235	0.85	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.23	0.02	0.02	235,212,212			1.00	0.04	0.96
877	0.10	0.13	0.0	233,236,0	0.22	0.03	0.04	235,209,212	0.36	235	0.85	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.22	0.02	0.02	235,212,212			1.00	0.04	0.96
878	0.0	0.10	0.0	0,100,0	0.23	3.06e-03	0.01	235,212,100	0.37	235	0.0	0.0	0.0
	0.03	0.02	0.0	209,212,0	0.23	3.83e-03	3.83e-03	235,212,212			1.00	0.04	0.96
879	0.0	0.10	0.0	0,100,0	0.22	3.06e-03	0.01	234,212,100	0.36	234	0.0	0.0	0.0
	9.13e-03	6.07e-03	0.0	209,212,0	0.22	1.83e-03	1.83e-03	234,216,216			1.00	0.04	0.96
880	9.82e-04	0.10	0.0	233,100,0	0.23	2.95e-03	0.01	234,209,212	0.37	234	0.85	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.23	6.11e-03	6.11e-03	234,209,209			1.00	0.04	0.96
881	9.82e-04	0.10	0.0	233,100,0	0.23	2.95e-03	0.01	234,209,212	0.37	234	0.85	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.23	6.11e-03	6.11e-03	234,209,209			1.00	0.04	0.96
882	0.0	0.11	0.0	0,100,0	0.23	2.87e-03	0.01	234,209,100	0.37	234	0.0	0.0	0.0
	0.02	0.01	0.0	209,212,0	0.23	3.83e-03	3.83e-03	234,212,212			1.00	0.04	0.96
883	0.0	0.11	0.0	0,100,0	0.23	2.87e-03	0.01	235,209,100	0.36	235	0.0	0.0	0.0
	9.13e-03	6.07e-03	0.0	209,212,0	0.23	1.83e-03	1.83e-03	235,216,216			1.00	0.04	0.96
884	0.0	0.11	0.0	0,100,0	0.23	1.94e-03	0.01	234,209,100	0.37	234	0.0	0.0	0.0
	0.02	0.02	0.0	209,212,0	0.23	5.37e-03	5.37e-03	234,212,212			1.00	0.04	0.96
885	0.0	0.11	0.0	0,100,0	0.23	1.54e-03	0.01	234,209,100	0.37	234	0.0	0.0	0.0
	0.02	0.02	0.0	209,212,0	0.23	5.37e-03	5.37e-03	234,212,212			1.00	0.04	0.96
886	0.0	0.12	0.0	0,100,0	0.23	2.87e-03	0.01	235,209,100	0.37	235	0.0	0.0	0.0
	0.01	6.61e-03	0.0	209,212,0	0.23	2.68e-03	2.68e-03	235,212,212			1.00	0.04	0.96
887	0.0	0.12	0.0	0,100,0	0.23	2.87e-03	0.01	235,209,100	0.37	235	0.0	0.0	0.0
	5.03e-03	3.04e-03	0.0	209,212,0	0.23	1.30e-03	1.30e-03	235,212,212			1.00	0.04	0.96
888	0.0	0.12	0.0	0,100,0	0.23	1.94e-03	0.01	235,209,100	0.37	235	0.0	0.0	0.0
	0.01	7.45e-03	0.0	209,212,0	0.23	2.68e-03	2.68e-03	235,212,212			1.00	0.04	0.96
889	0.0	0.12	0.0	0,100,0	0.24	9.62e-04	0.01	235,209,100	0.37	235	0.0	0.0	0.0
	0.01	7.45e-03	0.0	209,212,0	0.24	2.37e-03	2.37e-03	235,212,212			1.00	0.04	0.96
890	0.0	0.12	0.0	0,100,0	0.23	2.66e-03	0.01	235,209,100	0.37	235	0.0	0.0	0.0
	5.37e-03	2.37e-03	0.0	213,212,0	0.23	8.25e-04	8.25e-04	235,212,212			1.00	0.04	0.96
891	0.0	0.12	0.0	0,100,0	0.23	2.66e-03	0.01	235,209,100	0.37	235	0.0	0.0	0.0

	2.29e-03	1.04e-03	0.0	215,214,0	0.23	5.44e-04	5.44e-04	235,225,225			1.00	0.04	0.96
892	0.0	0.12	0.0	0,100,0	0.23	1.91e-03	0.01	235,209,100	0.37	235	0.0	0.0	0.0
	8.21e-03	4.01e-03	0.0	209,212,0	0.23	8.25e-04	8.25e-04	235,212,212			1.00	0.04	0.96
893	0.0	0.12	0.0	0,100,0	0.24	1.15e-03	0.01	235,209,100	0.37	235	0.0	0.0	0.0
	9.08e-03	4.74e-03	0.0	209,212,0	0.24	7.47e-04	7.47e-04	235,212,212			1.00	0.04	0.96
894	0.0	0.12	0.0	0,100,0	0.23	2.23e-03	0.01	235,212,100	0.37	235	0.0	0.0	0.0
	5.25e-03	2.36e-03	0.0	209,217,0	0.23	9.30e-04	9.30e-04	235,209,209			1.00	0.04	0.96
895	0.0	0.12	0.0	0,100,0	0.23	2.23e-03	0.01	235,212,100	0.37	235	0.0	0.0	0.0
	1.94e-03	9.44e-04	0.0	209,217,0	0.23	9.30e-04	9.30e-04	235,209,209			1.00	0.04	0.96
896	0.0	0.12	0.0	0,100,0	0.23	1.79e-03	0.01	235,212,100	0.37	235	0.0	0.0	0.0
	7.94e-03	3.53e-03	0.0	209,217,0	0.23	6.21e-04	6.21e-04	235,209,209			1.00	0.04	0.96
897	0.0	0.12	0.0	0,100,0	0.24	1.15e-03	0.01	235,209,100	0.37	235	0.0	0.0	0.0
	8.90e-03	4.12e-03	0.0	209,217,0	0.24	6.21e-04	6.21e-04	235,209,209			1.00	0.04	0.96
898	0.0	0.12	0.0	0,100,0	0.23	1.77e-03	0.01	235,212,100	0.37	235	0.0	0.0	0.0
	6.23e-03	3.26e-03	0.0	209,221,0	0.23	9.30e-04	9.30e-04	235,209,209			1.00	0.04	0.96
899	0.0	0.12	0.0	0,100,0	0.23	1.77e-03	0.01	235,212,100	0.37	235	0.0	0.0	0.0
	2.41e-03	1.38e-03	0.0	216,213,0	0.23	9.30e-04	9.30e-04	235,209,209			1.00	0.04	0.96
900	0.0	0.12	0.0	0,100,0	0.23	1.47e-03	0.01	235,212,100	0.37	235	0.0	0.0	0.0
	9.29e-03	4.45e-03	0.0	209,217,0	0.23	6.21e-04	6.21e-04	235,209,209			1.00	0.04	0.96
901	0.0	0.12	0.0	0,100,0	0.24	1.01e-03	0.01	235,212,100	0.37	235	0.0	0.0	0.0
	9.82e-03	4.77e-03	0.0	209,217,0	0.24	6.21e-04	6.21e-04	235,209,209			1.00	0.04	0.96
902	0.0	0.13	0.0	0,100,0	0.23	1.33e-03	0.01	235,211,100	0.37	235	0.0	0.0	0.0
	6.47e-03	3.26e-03	0.0	214,221,0	0.23	9.46e-04	9.46e-04	235,209,209			1.00	0.04	0.96
903	0.0	0.13	0.0	0,100,0	0.23	1.33e-03	0.01	235,211,100	0.37	235	0.0	0.0	0.0
	2.86e-03	1.65e-03	0.0	216,213,0	0.23	9.31e-04	9.31e-04	235,209,209			1.00	0.04	0.96
904	0.0	0.12	0.0	0,100,0	0.23	1.07e-03	0.01	235,211,100	0.37	235	0.0	0.0	0.0
	9.29e-03	4.45e-03	0.0	209,217,0	0.23	1.44e-03	1.44e-03	235,209,209			1.00	0.04	0.96
905	0.0	0.12	0.0	0,100,0	0.24	6.72e-04	0.01	235,215,100	0.37	235	0.0	0.0	0.0
	9.82e-03	4.77e-03	0.0	209,217,0	0.24	1.94e-03	1.94e-03	235,209,209			1.00	0.04	0.96
906	0.0	0.13	0.0	0,100,0	0.23	1.80e-03	0.01	235,209,100	0.37	235	0.0	0.0	0.0
	6.47e-03	3.17e-03	0.0	214,221,0	0.23	3.44e-03	3.44e-03	235,209,209			1.00	0.04	0.96
907	0.0	0.13	0.0	0,100,0	0.23	1.80e-03	0.01	235,209,100	0.37	235	0.0	0.0	0.0
	2.86e-03	1.65e-03	0.0	216,213,0	0.23	9.31e-04	9.31e-04	235,209,209			1.00	0.04	0.96
908	0.0	0.13	0.0	0,100,0	0.23	1.07e-03	0.01	235,211,100	0.37	235	0.0	0.0	0.0
	8.89e-03	4.01e-03	0.0	214,215,0	0.23	4.82e-03	4.82e-03	235,209,209			1.00	0.04	0.96
909	0.0	0.13	0.0	0,100,0	0.23	9.24e-04	0.01	235,212,100	0.37	235	0.0	0.0	0.0
	8.89e-03	4.01e-03	0.0	214,215,0	0.23	5.12e-03	5.12e-03	235,209,209			1.00	0.04	0.96
910	0.04	0.16	0.0	220,217,0	0.23	7.07e-03	0.03	234,217,217	0.37	234	0.85	0.06	0.94
	0.02	0.01	0.0	209,212,0	0.23	0.01	0.01	234,209,209			1.00	0.04	0.96
911	0.04	0.16	0.0	220,217,0	0.23	7.07e-03	0.03	235,217,217	0.37	235	0.85	0.06	0.94
	0.01	6.47e-03	0.0	209,212,0	0.23	4.47e-03	4.47e-03	235,217,217			1.00	0.04	0.96
912	0.03	0.15	0.0	224,221,0	0.23	2.45e-03	0.02	234,217,217	0.37	234	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.23	0.01	0.01	234,209,209			1.00	0.04	0.96
913	0.03	0.14	0.0	224,221,0	0.23	1.57e-03	0.02	234,212,217	0.37	234	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.23	9.84e-03	9.84e-03	234,209,209			1.00	0.04	0.96
914	0.05	0.18	0.0	224,221,0	0.23	7.29e-03	0.03	234,217,221	0.37	234	0.85	0.06	0.94
	0.03	0.01	0.0	209,212,0	0.23	0.01	0.01	234,217,217			1.00	0.04	0.96
915	0.05	0.18	0.0	224,221,0	0.23	7.29e-03	0.03	234,217,221	0.36	234	0.85	0.06	0.94
	0.01	6.53e-03	0.0	209,212,0	0.23	5.06e-03	5.06e-03	234,209,209			1.00	0.04	0.96
916	0.04	0.17	0.0	224,221,0	0.23	2.49e-03	0.03	234,209,221	0.37	234	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.23	0.01	0.01	234,217,217			1.00	0.04	0.96
917	0.03	0.16	0.0	224,221,0	0.23	1.62e-03	0.02	234,220,221	0.37	234	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.23	0.01	0.01	234,209,209			1.00	0.04	0.96
918	0.08	0.11	0.0	233,236,0	0.22	0.03	0.04	235,209,212	0.36	235	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.22	0.01	0.01	235,212,212			1.00	0.04	0.96
919	0.06	0.10	0.0	233,236,0	0.22	0.03	0.04	234,212,212	0.36	234	0.85	0.06	0.94
	0.03	0.02	0.0	209,209,0	0.22	0.01	0.01	234,209,209			1.00	0.04	0.96
920	0.0	0.10	0.0	0,100,0	0.23	1.94e-03	0.01	234,209,100	0.37	234	0.0	0.0	0.0
	0.03	0.02	0.0	209,212,0	0.23	8.04e-03	8.04e-03	234,212,212			1.00	0.04	0.96
921	0.0	0.10	0.0	0,100,0	0.23	1.94e-03	0.01	234,209,100	0.37	234	0.0	0.0	0.0
	0.03	0.02	0.0	209,209,0	0.23	9.28e-03	9.28e-03	234,212,212			1.00	0.04	0.96
922	0.0	0.11	0.0	0,100,0	0.24	1.94e-03	0.01	234,209,100	0.37	234	0.0	0.0	0.0
	0.02	0.01	0.0	209,212,0	0.24	3.31e-03	3.31e-03	234,209,209			1.00	0.04	0.96
923	0.0	0.11	0.0	0,100,0	0.24	1.94e-03	0.01	234,209,100	0.37	234	0.0	0.0	0.0
	9.17e-03	5.60e-03	0.0	209,212,0	0.24	6.30e-03	6.30e-03	234,209,209			1.00	0.04	0.96
924	0.0	0.12	0.0	0,100,0	0.24	1.53e-03	0.01	234,209,100	0.37	234	0.0	0.0	0.0
	0.01	6.88e-03	0.0	209,212,0	0.24	1.13e-03	1.13e-03	234,212,212			1.00	0.04	0.96
925	0.0	0.12	0.0	0,100,0	0.24	1.92e-03	0.01	234,209,100	0.38	234	0.0	0.0	0.0
	9.17e-03	5.60e-03	0.0	209,212,0	0.24	1.26e-03	1.26e-03	234,209,209			1.00	0.04	0.96
926	0.0	0.12	0.0	0,100,0	0.24	1.02e-03	0.01	235,209,100	0.37	235	0.0	0.0	0.0
	9.08e-03	5.14e-03	0.0	209,209,0	0.24	6.59e-04	6.59e-04	235,212,212			1.00	0.04	0.96
927	0.0	0.12	0.0	0,100,0	0.24	1.97e-03	0.01	235,209,100	0.38	235	0.0	0.0	0.0
	8.73e-03	5.14e-03	0.0	212,209,0	0.24	6.51e-04	6.51e-04	235,212,212			1.00	0.04	0.96
928	0.0	0.12	0.0	0,100,0	0.24	8.42e-04	0.01	235,212,100	0.38	235	0.0	0.0	0.0
	8.90e-03	4.24e-03	0.0	209,209,0	0.24	5.57e-04	5.57e-04	235,213,213			1.00	0.04	0.96
929	0.0	0.12	0.0	0,100,0	0.24	1.97e-03	0.01	235,209,100	0.38	235	0.0	0.0	0.0
	7.87e-03	4.24e-03	0.0	209,209,0	0.24	4.47e-04	4.47e-04	235,210,210			1.00	0.04	0.96

930	0.0	0.12	0.0	0,100,0	0.24	6.32e-04	0.01235,212,100	0.38	235	0.0	0.0	0.0
	9.82e-03	4.77e-03	0.0	209,217,0	0.24	5.57e-04	5.57e-04235,213,213			1.00	0.04	0.96
931	0.0	0.12	0.0	0,100,0	0.24	1.61e-03	0.01235,212,100	0.38	235	0.0	0.0	0.0
	8.27e-03	4.27e-03	0.0	209,221,0	0.24	5.31e-04	5.31e-04235,215,215			1.00	0.04	0.96
932	0.0	0.12	0.0	0,100,0	0.24	4.98e-04	0.01235,217,100	0.37	235	0.0	0.0	0.0
	9.82e-03	4.77e-03	0.0	209,217,0	0.24	1.94e-03	1.94e-03235,209,209			1.00	0.04	0.96
933	0.0	0.12	0.0	0,100,0	0.24	1.04e-03	0.01235,211,100	0.38	235	0.0	0.0	0.0
	8.27e-03	4.27e-03	0.0	209,221,0	0.24	1.67e-03	1.67e-03235,209,209			1.00	0.04	0.96
934	0.0	0.13	0.0	0,100,0	0.24	1.62e-03	0.01235,217,100	0.37	235	0.0	0.0	0.0
	8.51e-03	3.70e-03	0.0	214,215,0	0.24	5.12e-03	5.12e-03235,209,209			1.00	0.04	0.96
935	0.0	0.13	0.0	0,100,0	0.24	1.62e-03	0.01235,217,100	0.37	235	0.0	0.0	0.0
	7.08e-03	3.36e-03	0.0	214,215,0	0.24	4.25e-03	4.25e-03235,209,209			1.00	0.04	0.96
936	0.02	0.13	0.0	224,100,0	0.23	2.07e-03	0.02234,220,217	0.37	234	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.23	8.58e-03	8.58e-03234,209,209			1.00	0.04	0.96
937	4.28e-03	0.13	0.0	224,100,0	0.23	2.60e-03	0.02234,217,217	0.37	234	0.85	0.06	0.94
	0.02	0.01	0.0	209,212,0	0.23	7.39e-03	7.39e-03234,209,209			1.00	0.04	0.96
938	0.03	0.16	0.0	240,237,0	0.23	2.13e-03	0.02234,220,221	0.37	234	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.23	8.64e-03	8.64e-03234,209,209			1.00	0.04	0.96
939	0.02	0.15	0.0	240,100,0	0.23	2.62e-03	0.02234,217,221	0.37	234	0.85	0.06	0.94
	0.03	0.01	0.0	209,212,0	0.23	7.41e-03	7.41e-03234,209,209			1.00	0.04	0.96
940	0.06	0.10	0.0	233,236,0	0.22	0.03	0.04234,209,212	0.36	234	0.85	0.06	0.94
	0.03	0.02	0.0	209,209,0	0.22	0.01	0.01234,209,209			1.00	0.04	0.96
941	0.01	0.10	0.0	233,100,0	0.22	0.01	0.02234,209,212	0.36	234	0.85	0.06	0.94
	0.01	9.78e-03	0.0	212,209,0	0.22	2.39e-03	2.39e-03234,209,209			1.00	0.04	0.96
942	2.10e-03	0.10	0.0	233,100,0	0.24	6.18e-03	0.01234,209,212	0.37	234	0.85	0.06	0.94
	0.03	0.02	0.0	209,209,0	0.24	9.28e-03	9.28e-03234,212,212			1.00	0.04	0.96
943	2.10e-03	0.10	0.0	233,100,0	0.24	6.18e-03	0.01234,209,212	0.37	234	0.85	0.06	0.94
	0.01	9.78e-03	0.0	212,209,0	0.24	2.71e-03	2.71e-03234,209,209			1.00	0.04	0.96
944	0.0	0.11	0.0	0,100,0	0.24	1.99e-03	0.01234,210,100	0.37	234	0.0	0.0	0.0
	6.73e-03	4.29e-03	0.0	212,209,0	0.24	6.30e-03	6.30e-03234,209,209			1.00	0.04	0.96
945	0.0	0.11	0.0	0,100,0	0.24	1.99e-03	0.01234,210,100	0.37	234	0.0	0.0	0.0
	4.15e-03	3.14e-03	0.0	236,213,0	0.24	2.71e-03	2.71e-03234,209,209			1.00	0.04	0.96
946	0.0	0.12	0.0	0,100,0	0.24	2.75e-03	0.01234,209,100	0.38	234	0.0	0.0	0.0
	7.12e-03	4.57e-03	0.0	212,209,0	0.24	1.26e-03	1.26e-03234,209,209			1.00	0.04	0.96
947	0.0	0.11	0.0	0,100,0	0.24	2.75e-03	0.01234,209,100	0.38	234	0.0	0.0	0.0
	4.62e-03	3.18e-03	0.0	216,213,0	0.24	5.43e-04	5.43e-04234,230,230			1.00	0.04	0.96
948	0.0	0.12	0.0	0,100,0	0.24	3.03e-03	0.01235,209,100	0.38	235	0.0	0.0	0.0
	7.12e-03	4.57e-03	0.0	212,209,0	0.24	7.19e-04	7.19e-04235,212,212			1.00	0.04	0.96
949	0.0	0.12	0.0	0,100,0	0.24	3.03e-03	0.01234,209,100	0.38	234	0.0	0.0	0.0
	4.62e-03	3.18e-03	0.0	216,213,0	0.24	7.19e-04	7.19e-04234,212,212			1.00	0.04	0.96
950	0.0	0.12	0.0	0,100,0	0.24	3.03e-03	0.01235,209,100	0.38	235	0.0	0.0	0.0
	5.87e-03	3.76e-03	0.0	216,209,0	0.24	7.19e-04	7.19e-04235,212,212			1.00	0.04	0.96
951	0.0	0.12	0.0	0,100,0	0.24	3.03e-03	0.01235,209,100	0.38	235	0.0	0.0	0.0
	4.46e-03	3.07e-03	0.0	216,209,0	0.24	7.19e-04	7.19e-04235,212,212			1.00	0.04	0.96
952	0.0	0.12	0.0	0,100,0	0.24	2.55e-03	0.01235,212,100	0.38	235	0.0	0.0	0.0
	5.21e-03	3.30e-03	0.0	214,221,0	0.24	6.64e-04	6.64e-04235,218,218			1.00	0.04	0.96
953	0.0	0.12	0.0	0,100,0	0.24	2.55e-03	0.01235,212,100	0.38	235	0.0	0.0	0.0
	3.36e-03	2.34e-03	0.0	216,213,0	0.24	6.64e-04	6.64e-04235,218,218			1.00	0.04	0.96
954	0.0	0.12	0.0	0,100,0	0.24	1.88e-03	0.01235,211,100	0.38	235	0.0	0.0	0.0
	5.21e-03	3.30e-03	0.0	214,221,0	0.24	1.13e-03	1.13e-03235,221,221			1.00	0.04	0.96
955	0.0	0.12	0.0	0,100,0	0.24	1.88e-03	0.01235,211,100	0.38	235	0.0	0.0	0.0
	3.01e-03	2.15e-03	0.0	214,237,0	0.24	6.64e-04	6.64e-04235,218,218			1.00	0.04	0.96
956	0.0	0.13	0.0	0,100,0	0.24	1.26e-03	0.01235,211,100	0.37	235	0.0	0.0	0.0
	5.17e-03	3.02e-03	0.0	214,215,0	0.24	2.82e-03	2.82e-03235,217,217			1.00	0.04	0.96
957	0.0	0.12	0.0	0,100,0	0.24	1.26e-03	0.01235,211,100	0.37	235	0.0	0.0	0.0
	2.82e-03	2.14e-03	0.0	234,237,0	0.24	5.78e-04	5.78e-04235,225,225			1.00	0.04	0.96
958	0.0	0.13	0.0	0,100,0	0.23	4.09e-03	0.02235,217,221	0.37	235	0.0	0.0	0.0
	0.02	9.34e-03	0.0	209,212,0	0.23	6.28e-03	6.28e-03235,209,209			1.00	0.04	0.96
959	0.0	0.12	0.0	0,100,0	0.23	4.09e-03	0.02235,217,100	0.37	235	0.0	0.0	0.0
	7.41e-03	4.72e-03	0.0	214,221,0	0.23	2.79e-03	2.79e-03235,209,209			1.00	0.04	0.96
960	0.02	0.15	0.0	240,100,0	0.23	4.26e-03	0.02235,209,237	0.37	235	0.85	0.06	0.94
	0.02	9.34e-03	0.0	209,212,0	0.23	6.53e-03	6.53e-03235,209,209			1.00	0.04	0.96
961	0.01	0.14	0.0	240,100,0	0.23	4.26e-03	0.02235,209,100	0.37	235	0.85	0.06	0.94
	0.01	8.48e-03	0.0	214,215,0	0.23	2.79e-03	2.79e-03235,209,209			1.00	0.04	0.96
962	0.05	0.18	0.0	224,221,0	0.23	7.29e-03	0.03235,217,221	0.37	235	0.85	0.06	0.94
	0.03	0.01	0.0	209,212,0	0.23	0.01	0.01235,217,217			1.00	0.04	0.96
963	0.05	0.18	0.0	224,221,0	0.23	7.29e-03	0.03235,217,221	0.37	235	0.85	0.06	0.94
	0.01	6.53e-03	0.0	209,212,0	0.23	5.06e-03	5.06e-03235,209,209			1.00	0.04	0.96
964	0.05	0.18	0.0	240,237,0	0.23	2.49e-03	0.03235,209,221	0.37	235	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.23	0.01	0.01235,217,217			1.00	0.04	0.96
965	0.06	0.19	0.0	236,233,0	0.23	1.62e-03	0.02235,220,233	0.37	235	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.23	0.01	0.01235,209,209			1.00	0.04	0.96
966	0.05	0.18	0.0	240,237,0	0.27	2.46e-03	0.02235,209,233	0.40	235	0.85	0.06	0.94
	8.00e-03	4.45e-03	0.0	240,237,0	0.27	3.97e-03	3.97e-03235,217,217			1.00	0.04	0.96
967	0.04	0.17	0.0	240,237,0	0.24	1.81e-03	0.02235,211,237	0.38	235	0.85	0.06	0.94
	3.84e-03	2.18e-03	0.0	240,237,0	0.24	7.97e-04	7.97e-04235,225,225			1.00	0.04	0.96
968	0.05	0.18	0.0	240,237,0	0.31	2.46e-03	0.02235,209,233	0.43	235	0.85	0.06	0.94

	9.81e-03	4.45e-03	0.0	214,237,0	0.31	5.41e-03	5.41e-03	235,209,209			1.00	0.04	0.96
969	0.06	0.19	0.0	236,233,0	0.35	1.02e-03	0.02	235,220,233	0.45	235	0.85	0.06	0.94
	0.01	4.13e-03	0.0	214,215,0	0.35	5.53e-03	5.53e-03	235,209,209			1.00	0.04	0.96
970	0.03	0.12	0.0	236,233,0	0.27	1.81e-03	0.01	235,211,233	0.40	235	0.85	0.06	0.94
	0.01	9.51e-03	0.0	240,237,0	0.27	1.11e-03	1.11e-03	235,221,221			1.00	0.04	0.96
971	0.03	0.11	0.0	236,233,0	0.24	1.81e-03	0.01	235,211,239	0.38	235	0.85	0.06	0.94
	6.74e-03	5.24e-03	0.0	236,233,0	0.24	8.32e-04	8.32e-04	235,218,218			1.00	0.04	0.96
972	0.03	0.12	0.0	236,233,0	0.31	8.17e-04	0.01	235,219,233	0.43	235	0.85	0.06	0.94
	0.01	9.51e-03	0.0	240,237,0	0.31	1.86e-03	1.86e-03	235,209,209			1.00	0.04	0.96
973	0.03	0.12	0.0	236,233,0	0.35	5.20e-04	0.01	235,219,233	0.45	235	0.85	0.06	0.94
	0.01	8.96e-03	0.0	240,237,0	0.35	2.34e-03	2.34e-03	235,209,209			1.00	0.04	0.96
974	0.0	0.06	0.0	0,100,0	0.24	1.24e-03	6.93e-03	235,220,100	0.38	235	0.0	0.0	0.0
	0.02	0.01	0.0	234,237,0	0.24	8.91e-04	8.91e-04	235,218,218			1.00	0.04	0.96
975	0.0	0.06	0.0	0,100,0	0.23	1.24e-03	6.93e-03	235,220,100	0.37	235	0.0	0.0	0.0
	9.06e-03	6.51e-03	0.0	234,235,0	0.23	8.91e-04	8.91e-04	235,218,218			1.00	0.04	0.96
976	0.0	0.06	0.0	0,100,0	0.26	1.02e-03	6.86e-03	235,220,100	0.39	235	0.0	0.0	0.0
	0.02	0.01	0.0	234,237,0	0.26	8.48e-04	8.48e-04	235,217,217			1.00	0.04	0.96
977	0.0	0.06	0.0	0,100,0	0.27	6.74e-04	6.64e-03	235,220,100	0.40	235	0.0	0.0	0.0
	0.01	9.51e-03	0.0	234,237,0	0.27	8.48e-04	8.48e-04	235,217,217			1.00	0.04	0.96
978	0.18	0.20	0.0	234,235,0	0.24	2.28e-03	0.02	235,221,235	0.37	235	0.85	0.06	0.94
	0.02	0.01	0.0	234,237,0	0.24	8.91e-04	8.91e-04	235,218,218			1.00	0.04	0.96
979	0.18	0.20	0.0	234,235,0	0.22	2.28e-03	0.02	235,221,235	0.36	235	0.85	0.06	0.94
	9.06e-03	6.51e-03	0.0	234,235,0	0.22	8.91e-04	8.91e-04	235,218,218			1.00	0.04	0.96
980	0.15	0.17	0.0	234,235,0	0.24	1.86e-03	0.02	235,221,235	0.38	235	0.85	0.06	0.94
	0.02	0.01	0.0	234,237,0	0.24	8.48e-04	8.48e-04	235,217,217			1.00	0.04	0.96
981	0.11	0.14	0.0	234,235,0	0.24	1.16e-03	0.02	235,218,235	0.38	235	0.85	0.06	0.94
	0.01	9.51e-03	0.0	234,237,0	0.24	8.48e-04	8.48e-04	235,217,217			1.00	0.04	0.96
982	0.18	0.20	0.0	234,235,0	0.19	2.28e-03	0.02	235,221,235	0.33	235	0.85	0.06	0.94
	8.76e-03	6.25e-03	0.0	234,235,0	0.19	7.79e-04	7.79e-04	235,218,218			1.00	0.04	0.96
983	0.18	0.20	0.0	234,235,0	0.19	2.28e-03	0.02	235,221,235	0.33	235	0.85	0.06	0.94
	5.08e-03	3.79e-03	0.0	234,235,0	0.19	7.79e-04	7.79e-04	235,218,218			1.00	0.04	0.96
984	0.15	0.17	0.0	234,235,0	0.15	1.86e-03	0.02	235,221,235	0.30	235	0.85	0.06	0.94
	8.76e-03	6.25e-03	0.0	234,235,0	0.15	6.49e-04	6.49e-04	235,217,217			1.00	0.04	0.96
985	0.11	0.14	0.0	234,235,0	0.12	1.16e-03	0.02	235,218,235	0.27	235	0.85	0.06	0.94
	6.17e-03	4.72e-03	0.0	234,237,0	0.12	6.82e-04	6.82e-04	235,217,217			1.00	0.04	0.96
986	0.06	0.20	0.0	240,237,0	0.23	2.13e-03	0.02	235,220,237	0.37	235	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.23	8.64e-03	8.64e-03	235,209,209			1.00	0.04	0.96
987	0.07	0.21	0.0	236,233,0	0.23	2.62e-03	0.03	235,217,233	0.36	235	0.85	0.06	0.94
	0.03	0.01	0.0	209,212,0	0.22	7.41e-03	7.41e-03	235,209,209			1.00	0.04	0.96
988	0.06	0.20	0.0	240,237,0	0.40	1.77e-03	0.02	235,209,237	0.49	235	0.85	0.06	0.94
	0.01	3.73e-03	0.0	214,215,0	0.40	5.53e-03	5.53e-03	235,209,209			1.00	0.04	0.96
989	0.07	0.21	0.0	236,233,0	0.48	2.33e-03	0.03	235,209,233	0.53	235	0.85	0.06	0.94
	9.49e-03	3.54e-03	0.0	221,224,0	0.48	4.58e-03	4.58e-03	235,217,217			1.00	0.04	0.96
990	0.03	0.12	0.0	236,233,0	0.40	5.46e-04	0.01	235,211,233	0.49	235	0.85	0.06	0.94
	9.42e-03	7.84e-03	0.0	240,237,0	0.40	2.34e-03	2.34e-03	235,209,209			1.00	0.04	0.96
991	0.04	0.12	0.0	236,233,0	0.48	8.55e-04	0.01	235,211,233	0.53	235	0.85	0.06	0.94
	6.60e-03	6.81e-03	0.0	240,237,0	0.48	1.97e-03	1.97e-03	235,217,217			1.00	0.04	0.96
992	0.0	0.06	0.0	0,100,0	0.27	5.46e-04	6.30e-03	235,211,100	0.40	235	0.0	0.0	0.0
	9.63e-03	7.87e-03	0.0	240,237,0	0.27	8.41e-04	8.41e-04	235,217,217			1.00	0.04	0.96
993	0.0	0.06	0.0	0,100,0	0.27	1.16e-03	6.11e-03	235,219,100	0.40	235	0.0	0.0	0.0
	6.60e-03	6.81e-03	0.0	240,237,0	0.27	7.23e-04	7.23e-04	235,217,217			1.00	0.04	0.96
994	0.08	0.11	0.0	234,235,0	0.24	9.19e-04	0.01	235,213,237	0.38	235	0.85	0.06	0.94
	9.63e-03	7.87e-03	0.0	240,237,0	0.24	8.41e-04	8.41e-04	235,217,217			1.00	0.04	0.96
995	0.05	0.08	0.0	234,235,0	0.24	1.95e-03	9.24e-03	235,217,237	0.37	235	0.85	0.06	0.94
	6.30e-03	6.39e-03	0.0	240,237,0	0.24	7.23e-04	7.23e-04	235,217,217			1.00	0.04	0.96
996	0.08	0.11	0.0	234,235,0	0.10	9.19e-04	0.01	235,213,237	0.25	234	0.85	0.06	0.94
	4.21e-03	3.89e-03	0.0	240,237,0	0.10	6.82e-04	6.82e-04	234,217,217			1.00	0.04	0.96
997	0.05	0.08	0.0	234,235,0	0.09	1.95e-03	9.24e-03	234,217,237	0.23	234	0.85	0.06	0.94
	2.20e-03	3.88e-03	0.0	240,100,0	0.09	6.18e-04	6.18e-04	234,217,217			1.00	0.04	0.96
998	0.09	0.22	0.0	236,233,0	0.20	4.26e-03	0.03	233,209,233	0.34	233	0.85	0.06	0.94
	0.02	9.13e-03	0.0	209,212,0	0.20	6.53e-03	6.53e-03	233,209,209			1.00	0.04	0.96
999	0.09	0.22	0.0	236,233,0	0.20	4.26e-03	0.03	233,209,233	0.34	233	0.85	0.06	0.94
	0.01	8.48e-03	0.0	214,215,0	0.20	2.75e-03	2.75e-03	233,221,221			1.00	0.04	0.96
1000	0.09	0.22	0.0	236,233,0	0.51	2.33e-03	0.03	237,209,233	0.55	237	0.85	0.06	0.94
	7.64e-03	3.40e-03	0.0	221,224,0	0.51	3.16e-03	3.16e-03	237,209,209			1.00	0.04	0.96
1001	0.09	0.22	0.0	236,233,0	0.51	1.32e-03	0.03	237,211,233	0.55	237	0.85	0.06	0.94
	2.11e-03	3.28e-03	0.0	234,211,0	0.51	7.78e-04	7.78e-04	237,209,209			1.00	0.04	0.96
1002	0.04	0.12	0.0	236,233,0	0.51	1.34e-03	0.01	237,219,233	0.55	237	0.85	0.06	0.94
	4.94e-03	6.63e-03	0.0	240,237,0	0.51	1.40e-03	1.40e-03	237,209,209			1.00	0.04	0.96
1003	0.04	0.12	0.0	236,233,0	0.51	1.34e-03	0.01	237,219,233	0.55	237	0.85	0.06	0.94
	4.32e-03	3.52e-03	0.0	240,237,0	0.51	9.87e-04	9.87e-04	237,209,209			1.00	0.04	0.96
1004	0.0	0.05	0.0	0,100,0	0.27	1.94e-03	5.92e-03	235,219,100	0.40	235	0.0	0.0	0.0
	4.94e-03	6.63e-03	0.0	240,237,0	0.27	9.87e-04	9.87e-04	235,209,209			1.00	0.04	0.96
1005	0.0	0.05	0.0	0,100,0	0.26	1.94e-03	5.92e-03	235,219,100	0.39	235	0.0	0.0	0.0
	4.32e-03	3.52e-03	0.0	240,237,0	0.26	9.87e-04	9.87e-04	235,209,209			1.00	0.04	0.96
1006	0.02	0.05	0.0	234,235,0	0.23	2.98e-03	7.09e-03	234,217,215	0.37	234	0.85	0.06	0.94
	3.48e-03	5.54e-03	0.0	240,237,0	0.23	1.17e-03	1.17e-03	234,229,229			1.00	0.04	0.96

1007	0.0	0.05	0.0	0,100,0	0.23	2.98e-03	5.88e-03	5,217,221	0.37	235	0.0	0.0	0.0
	1.34e-03	4.84e-03	0.0	232,99,0	0.23	1.17e-03	1.17e-03	5,229,229			1.00	0.04	0.96
1008	0.02	0.05	0.0	234,235,0	0.08	2.98e-03	7.09e-03	4,217,215	0.22	234	0.85	0.06	0.94
	1.44e-04	4.84e-03	0.0	240,99,0	0.08	1.17e-03	1.17e-03	4,229,229			1.00	0.04	0.96
1009	0.0	0.04	0.0	0,100,0	0.08	2.98e-03	5.88e-03	5,217,221	0.22	235	0.0	0.0	0.0
	0.0	4.84e-03	0.0	0,99,0	0.08	1.17e-03	1.17e-03	5,229,229			0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.18	0.22	0.0	0.51	0.03	0.04	0.55

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
31	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.74	-64.2	180	0.69	-59.6	180	0.77	1.245e+04	-1.703e+06	214

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
914	0.07	0.11	0.0	224,221,0	0.13	7.14e-04	0.01	212,234,221	0.28	212	0.85	0.06	0.94
	3.01e-03	4.32e-03	0.0	214,100,0	0.13	1.19e-03	1.19e-03	212,234,234			1.00	0.04	0.96
915	0.07	0.11	0.0	224,221,0	0.13	7.14e-04	0.01	212,234,221	0.28	212	0.85	0.06	0.94
	0.0	4.32e-03	0.0	0,100,0	0.13	2.03e-04	2.03e-04	212,216,216			0.0	0.0	0.0
916	0.05	0.10	0.0	224,221,0	0.13	3.93e-04	0.01	212,228,221	0.28	212	0.85	0.06	0.94
	3.02e-03	4.17e-03	0.0	214,215,0	0.13	1.21e-03	1.21e-03	212,234,234			1.00	0.04	0.96
917	0.03	0.10	0.0	224,221,0	0.13	4.95e-04	0.01	212,228,221	0.28	212	0.85	0.06	0.94
	3.02e-03	3.47e-03	0.0	214,215,0	0.13	1.21e-03	1.21e-03	212,234,234			1.00	0.04	0.96
938	0.01	0.10	0.0	224,100,0	0.13	4.95e-04	0.01	215,228,100	0.28	215	0.85	0.06	0.94
	2.38e-03	3.15e-03	0.0	214,100,0	0.13	1.20e-03	1.20e-03	215,234,234			1.00	0.04	0.96
939	0.0	0.11	0.0	0,100,0	0.14	4.01e-04	0.01	215,228,100	0.29	215	0.0	0.0	0.0
	5.73e-04	7.80e-03	0.0	217,100,0	0.14	1.09e-03	1.09e-03	215,235,235			1.00	0.04	0.96
960	0.0	0.19	0.0	0,100,0	0.20	7.79e-04	0.02	211,227,100	0.35	211	0.0	0.0	0.0
	0.0	8.77e-03	0.0	0,100,0	0.20	7.07e-04	7.07e-04	211,235,235			0.0	0.0	0.0
961	0.0	0.19	0.0	0,100,0	0.20	8.50e-04	0.02	211,236,100	0.35	211	0.0	0.0	0.0
	3.90e-03	8.77e-03	0.0	210,100,0	0.20	1.69e-03	1.69e-03	211,227,227			1.00	0.04	0.96
1154	0.07	0.11	0.0	224,100,0	0.16	8.18e-04	0.01	212,233,100	0.31	212	0.85	0.06	0.94
	7.11e-03	5.15e-03	0.0	214,215,0	0.16	1.19e-03	1.19e-03	212,234,234			1.00	0.04	0.96
1155	0.07	0.11	0.0	224,100,0	0.14	8.18e-04	0.01	212,233,100	0.29	212	0.85	0.06	0.94
	3.43e-03	4.32e-03	0.0	214,100,0	0.14	4.31e-04	4.31e-04	212,234,234			1.00	0.04	0.96
1156	0.05	0.10	0.0	224,221,0	0.17	5.81e-04	0.01	212,233,221	0.32	212	0.85	0.06	0.94
	7.11e-03	5.15e-03	0.0	214,215,0	0.17	1.21e-03	1.21e-03	212,234,234			1.00	0.04	0.96
1157	0.03	0.10	0.0	224,221,0	0.18	4.97e-04	0.01	212,236,221	0.32	212	0.85	0.06	0.94
	6.06e-03	4.59e-03	0.0	214,215,0	0.18	1.21e-03	1.21e-03	212,234,234			1.00	0.04	0.96
1158	0.06	0.12	0.0	210,211,0	0.16	1.37e-03	0.01	212,233,211	0.31	212	0.85	0.06	0.94
	0.01	7.58e-03	0.0	214,215,0	0.16	5.79e-04	5.79e-04	212,234,234			1.00	0.04	0.96
1159	0.06	0.12	0.0	210,211,0	0.14	1.37e-03	0.01	212,233,211	0.29	212	0.85	0.06	0.94
	5.88e-03	4.86e-03	0.0	214,215,0	0.14	5.79e-04	5.79e-04	212,234,234			1.00	0.04	0.96
1160	0.06	0.12	0.0	210,211,0	0.17	1.11e-03	0.01	212,233,215	0.32	212	0.85	0.06	0.94
	0.01	7.58e-03	0.0	214,215,0	0.17	4.85e-04	4.85e-04	212,234,234			1.00	0.04	0.96
1161	0.06	0.12	0.0	210,211,0	0.18	7.81e-04	0.01	212,233,215	0.32	212	0.85	0.06	0.94
	6.94e-03	5.36e-03	0.0	214,215,0	0.18	4.85e-04	4.85e-04	212,234,234			1.00	0.04	0.96
1162	0.29	0.33	0.0	214,215,0	0.15	2.05e-03	0.04	212,234,215	0.30	212	0.85	0.06	0.94
	0.01	7.58e-03	0.0	214,215,0	0.15	5.79e-04	5.79e-04	212,234,234			1.00	0.04	0.96
1163	0.29	0.33	0.0	214,215,0	0.14	2.05e-03	0.04	212,234,215	0.28	212	0.85	0.06	0.94
	5.88e-03	4.86e-03	0.0	214,215,0	0.14	5.79e-04	5.79e-04	212,234,234			1.00	0.04	0.96
1164	0.25	0.29	0.0	214,215,0	0.15	1.64e-03	0.04	212,234,215	0.30	212	0.85	0.06	0.94
	0.01	7.58e-03	0.0	214,215,0	0.15	4.85e-04	4.85e-04	212,234,234			1.00	0.04	0.96
1165	0.22	0.26	0.0	214,215,0	0.15	1.03e-03	0.03	212,234,215	0.30	212	0.85	0.06	0.94
	6.94e-03	5.36e-03	0.0	214,215,0	0.15	4.85e-04	4.85e-04	212,234,234			1.00	0.04	0.96
1166	0.29	0.33	0.0	214,215,0	0.11	2.05e-03	0.04	212,234,215	0.25	212	0.85	0.06	0.94
	5.72e-03	4.21e-03	0.0	214,215,0	0.11	5.24e-04	5.24e-04	212,226,226			1.00	0.04	0.96
1167	0.29	0.33	0.0	214,215,0	0.11	2.05e-03	0.04	212,234,215	0.25	212	0.85	0.06	0.94
	3.53e-03	2.90e-03	0.0	209,215,0	0.11	5.24e-04	5.24e-04	212,226,226			1.00	0.04	0.96
1168	0.25	0.29	0.0	214,215,0	0.08	1.64e-03	0.04	212,234,215	0.22	212	0.85	0.06	0.94
	5.72e-03	4.21e-03	0.0	214,215,0	0.08	3.85e-04	3.85e-04	212,234,234			1.00	0.04	0.96
1169	0.22	0.26	0.0	214,215,0	0.06	1.03e-03	0.03	212,234,215	0.19	212	0.85	0.06	0.94
	3.39e-03	2.60e-03	0.0	214,215,0	0.06	3.85e-04	3.85e-04	212,234,234			1.00	0.04	0.96
1170	0.01	0.10	0.0	224,100,0	0.18	4.95e-04	0.01	212,228,100	0.32	212	0.85	0.06	0.94
	4.49e-03	4.11e-03	0.0	214,215,0	0.18	1.20e-03	1.20e-03	212,234,234			1.00	0.04	0.96
1171	0.0	0.11	0.0	0,100,0	0.18	6.68e-04	0.01	212,233,100	0.32	212	0.0	0.0	0.0
	1.70e-03	7.80e-03	0.0	214,100,0	0.18	1.09e-03	1.09e-03	212,235,235			1.00	0.04	0.96

1172	0.06	0.12	0.0	210,211,0	0.18	4.17e-04	0.01212,234,211	0.32	212	0.85	0.06	0.94
	4.69e-03	4.21e-03	0.0	214,215,0	0.18	4.56e-04	4.56e-04212,234,234			1.00	0.04	0.96
1173	0.06	0.11	0.0	210,211,0	0.18	1.12e-03	0.01212,235,211	0.32	212	0.85	0.06	0.94
	1.99e-03	6.85e-03	0.0	214,100,0	0.18	4.25e-04	4.25e-04212,235,235			1.00	0.04	0.96
1174	0.18	0.22	0.0	214,215,0	0.15	8.68e-04	0.03212,238,215	0.30	212	0.85	0.06	0.94
	4.69e-03	4.21e-03	0.0	214,215,0	0.15	4.56e-04	4.56e-04212,234,234			1.00	0.04	0.96
1175	0.15	0.19	0.0	214,215,0	0.15	1.84e-03	0.02212,233,215	0.30	212	0.85	0.06	0.94
	1.99e-03	5.78e-03	0.0	214,100,0	0.15	4.25e-04	4.25e-04212,235,235			1.00	0.04	0.96
1176	0.18	0.22	0.0	214,215,0	0.05	8.68e-04	0.03212,238,215	0.17	212	0.85	0.06	0.94
	2.06e-03	1.93e-03	0.0	214,215,0	0.05	3.83e-04	3.83e-04212,234,234			1.00	0.04	0.96
1177	0.15	0.19	0.0	214,215,0	0.04	1.84e-03	0.02220,233,215	0.16	220	0.85	0.06	0.94
	3.78e-04	4.16e-03	0.0	214,100,0	0.04	3.24e-04	3.24e-04220,235,235			1.00	0.04	0.96
1178	0.0	0.19	0.0	0,100,0	0.20	1.27e-03	0.02211,234,100	0.35	211	0.0	0.0	0.0
	3.90e-03	8.77e-03	0.0	210,100,0	0.20	1.69e-03	1.69e-03211,227,227			1.00	0.04	0.96
1179	0.0	0.10	0.0	0,100,0	0.17	1.27e-03	0.01212,234,100	0.32	212	0.0	0.0	0.0
	3.90e-03	8.51e-03	0.0	210,100,0	0.17	1.69e-03	1.69e-03212,227,227			1.00	0.04	0.96
1180	0.05	0.11	0.0	210,211,0	0.18	1.97e-03	0.01212,233,211	0.32	212	0.85	0.06	0.94
	0.0	8.51e-03	0.0	0,100,0	0.18	6.91e-04	6.91e-04212,225,225			0.0	0.0	0.0
1181	0.05	0.10	0.0	214,215,0	0.17	1.97e-03	0.01212,233,215	0.32	212	0.85	0.06	0.94
	0.0	8.51e-03	0.0	0,100,0	0.17	6.91e-04	6.91e-04212,225,225			0.0	0.0	0.0
1182	0.12	0.16	0.0	214,215,0	0.14	3.04e-03	0.02212,233,215	0.29	212	0.85	0.06	0.94
	0.0	7.68e-03	0.0	0,100,0	0.14	6.91e-04	6.91e-04212,225,225			0.0	0.0	0.0
1183	0.09	0.14	0.0	214,215,0	0.14	3.04e-03	0.02212,233,212	0.28	212	0.85	0.06	0.94
	0.0	7.68e-03	0.0	0,100,0	0.14	6.91e-04	6.91e-04212,225,225			0.0	0.0	0.0
1184	0.12	0.16	0.0	214,215,0	0.04	3.04e-03	0.02217,233,215	0.16	217	0.85	0.06	0.94
	0.0	7.68e-03	0.0	0,100,0	0.04	6.38e-04	6.38e-04217,225,225			0.0	0.0	0.0
1185	0.09	0.14	0.0	214,215,0	0.04	3.04e-03	0.02217,233,212	0.16	217	0.85	0.06	0.94
	0.0	7.68e-03	0.0	0,100,0	0.04	6.38e-04	6.38e-04217,225,225			0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.29	0.33	0.0	0.20	3.04e-03	0.04	0.35

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
32	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.86	151.8	202	0.86	150.5	202	0.73	-6719.2	-5.972e+06	237

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1	0.23	0.22	0.0	237,240,0	0.17	0.01	0.04234,212,224		0.32	234	0.85	0.06	0.94
	2.88e-03	3.93e-03	0.0	221,224,0	0.17	1.46e-03	1.46e-03234,214,214				1.00	0.04	0.96
2	0.23	0.22	0.0	237,240,0	0.17	0.02	0.05234,212,212		0.32	234	0.85	0.06	0.94
	0.02	0.01	0.0	209,212,0	0.17	0.01	0.01234,212,212				1.00	0.04	0.96
5	0.21	0.21	0.0	237,240,0	0.16	0.02	0.05234,212,212		0.31	234	0.85	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.16	0.03	0.03234,212,212				1.00	0.04	0.96
7	0.19	0.20	0.0	237,240,0	0.15	0.04	0.07234,212,212		0.30	234	0.85	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.15	0.03	0.03234,212,212				1.00	0.04	0.96
13	0.16	0.17	0.0	237,240,0	0.14	0.04	0.07234,212,212		0.29	234	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.14	0.02	0.02234,212,212				1.00	0.04	0.96
15	0.13	0.14	0.0	237,240,0	0.14	0.04	0.05234,209,212		0.29	234	0.85	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.14	0.03	0.03234,212,212				1.00	0.04	0.96
19	0.11	0.12	0.0	237,240,0	0.13	0.03	0.04234,209,212		0.28	234	0.85	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.13	0.03	0.03234,212,212				1.00	0.04	0.96
21	0.09	0.10	0.0	237,240,0	0.13	7.72e-03	0.02234,212,228		0.28	234	0.85	0.06	0.94
	0.01	9.06e-03	0.0	68,70,0	0.13	8.96e-03	8.96e-03234,211,211				1.00	0.04	0.96
1010	0.23	0.22	0.0	237,240,0	0.19	0.02	0.05234,212,212		0.34	234	0.85	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.19	0.01	0.01234,212,212				1.00	0.04	0.96
1011	0.23	0.22	0.0	237,240,0	0.19	0.01	0.04234,212,224		0.33	234	0.85	0.06	0.94
	0.01	8.85e-03	0.0	209,212,0	0.19	1.46e-03	1.46e-03234,214,214				1.00	0.04	0.96
1012	0.21	0.21	0.0	237,240,0	0.19	0.02	0.05234,212,212		0.34	234	0.85	0.06	0.94
	0.06	0.04	0.0	209,212,0	0.19	0.03	0.03234,212,212				1.00	0.04	0.96
1013	0.19	0.20	0.0	237,240,0	0.19	0.04	0.07234,212,212		0.34	234	0.85	0.06	0.94
	0.06	0.04	0.0	209,212,0	0.19	0.03	0.03234,212,212				1.00	0.04	0.96
1014	0.05	0.11	0.0	237,240,0	0.20	4.05e-03	0.01234,212,220		0.34	234	0.85	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.20	4.91e-03	4.91e-03234,212,212				1.00	0.04	0.96
1015	0.05	0.10	0.0	237,240,0	0.19	4.05e-03	0.01234,212,232		0.33	234	0.85	0.06	0.94
	0.01	0.01	0.0	209,212,0	0.19	2.24e-03	2.24e-03234,212,212				1.00	0.04	0.96
1016	0.06	0.11	0.0	237,240,0	0.20	4.05e-03	0.02234,212,220		0.35	234	0.85	0.06	0.94
	0.06	0.04	0.0	209,212,0	0.20	8.17e-03	8.17e-03234,212,212				1.00	0.04	0.96

1017	0.06	0.11	0.0	237,240,0	0.20	4.05e-03	0.02234,212,220	0.35	234	0.85	0.06	0.94
	0.06	0.04	0.0	209,212,0	0.20	8.17e-03	8.17e-03234,212,212			1.00	0.04	0.96
1018	6.07e-03	0.08	0.0	237,100,0	0.20	3.00e-03	9.62e-03234,212,212	0.34	234	0.85	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.20	4.91e-03	4.91e-03234,212,212			1.00	0.04	0.96
1019	6.07e-03	0.08	0.0	237,100,0	0.19	3.00e-03	9.60e-03234,212,224	0.34	234	0.85	0.06	0.94
	0.01	0.01	0.0	209,212,0	0.19	2.24e-03	2.24e-03234,212,212			1.00	0.04	0.96
1020	5.88e-03	0.08	0.0	237,100,0	0.21	2.01e-03	9.62e-03234,212,212	0.35	234	0.85	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.21	8.17e-03	8.17e-03234,212,212			1.00	0.04	0.96
1021	4.74e-03	0.08	0.0	237,100,0	0.21	1.92e-03	9.38e-03234,209,216	0.35	234	0.85	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.21	8.17e-03	8.17e-03234,212,212			1.00	0.04	0.96
1022	0.0	0.09	0.0	0,100,0	0.20	3.00e-03	9.85e-03234,212,212	0.34	234	0.0	0.0	0.0
	0.02	0.01	0.0	209,212,0	0.20	4.33e-03	4.33e-03234,212,212			1.00	0.04	0.96
1023	0.0	0.09	0.0	0,100,0	0.19	3.00e-03	9.85e-03234,212,212	0.34	234	0.0	0.0	0.0
	7.96e-03	6.14e-03	0.0	209,212,0	0.19	2.09e-03	2.09e-03234,212,212			1.00	0.04	0.96
1024	0.0	0.09	0.0	0,100,0	0.21	2.01e-03	9.83e-03234,212,212	0.35	234	0.0	0.0	0.0
	0.02	0.01	0.0	209,212,0	0.21	4.33e-03	4.33e-03234,212,212			1.00	0.04	0.96
1025	0.0	0.09	0.0	0,100,0	0.21	1.61e-03	9.43e-03234,212,100	0.35	234	0.0	0.0	0.0
	0.02	0.01	0.0	209,212,0	0.21	4.12e-03	4.12e-03234,212,212			1.00	0.04	0.96
1026	0.0	0.11	0.0	0,100,0	0.21	2.88e-03	0.01234,212,215	0.35	234	0.0	0.0	0.0
	9.33e-03	7.61e-03	0.0	214,215,0	0.21	1.85e-03	1.85e-03234,212,212			1.00	0.04	0.96
1027	0.0	0.11	0.0	0,100,0	0.19	2.88e-03	0.01234,212,100	0.33	234	0.0	0.0	0.0
	5.78e-03	4.41e-03	0.0	234,235,0	0.19	9.82e-04	9.82e-04234,211,211			1.00	0.04	0.96
1028	0.0	0.11	0.0	0,100,0	0.21	1.91e-03	0.01234,212,215	0.35	234	0.0	0.0	0.0
	9.33e-03	7.67e-03	0.0	214,212,0	0.21	1.85e-03	1.85e-03234,212,212			1.00	0.04	0.96
1029	0.0	0.11	0.0	0,100,0	0.22	1.08e-03	0.01234,213,215	0.36	234	0.0	0.0	0.0
	8.49e-03	8.09e-03	0.0	209,212,0	0.22	1.80e-03	1.80e-03234,212,212			1.00	0.04	0.96
1030	0.13	0.25	0.0	234,235,0	0.21	2.44e-03	0.03234,212,235	0.35	234	0.85	0.06	0.94
	8.67e-03	6.90e-03	0.0	234,235,0	0.21	5.51e-04	5.51e-04234,212,212			1.00	0.04	0.96
1031	0.13	0.25	0.0	234,235,0	0.19	2.44e-03	0.03234,212,235	0.33	234	0.85	0.06	0.94
	5.78e-03	4.41e-03	0.0	234,235,0	0.19	4.26e-04	4.26e-04234,225,225			1.00	0.04	0.96
1032	0.09	0.21	0.0	234,235,0	0.21	1.91e-03	0.02234,212,235	0.35	234	0.85	0.06	0.94
	8.67e-03	6.90e-03	0.0	234,235,0	0.21	7.55e-04	7.55e-04234,212,212			1.00	0.04	0.96
1033	0.04	0.17	0.0	234,235,0	0.22	1.19e-03	0.02234,212,215	0.36	234	0.85	0.06	0.94
	5.44e-03	5.42e-03	0.0	214,215,0	0.22	1.03e-03	1.03e-03234,212,212			1.00	0.04	0.96
1034	0.13	0.25	0.0	234,235,0	0.16	2.00e-03	0.03234,212,235	0.30	234	0.85	0.06	0.94
	5.52e-03	4.16e-03	0.0	234,235,0	0.16	4.26e-04	4.26e-04234,225,225			1.00	0.04	0.96
1035	0.13	0.25	0.0	234,235,0	0.16	2.00e-03	0.03234,212,235	0.30	234	0.85	0.06	0.94
	3.95e-03	2.74e-03	0.0	234,235,0	0.16	4.26e-04	4.26e-04234,225,225			1.00	0.04	0.96
1036	0.09	0.21	0.0	234,235,0	0.13	1.73e-03	0.02234,212,235	0.28	234	0.85	0.06	0.94
	5.52e-03	4.16e-03	0.0	234,235,0	0.13	2.64e-04	2.64e-04234,213,213			1.00	0.04	0.96
1037	0.04	0.17	0.0	234,235,0	0.11	1.19e-03	0.02234,212,215	0.26	234	0.85	0.06	0.94
	2.03e-03	2.37e-03	0.0	214,215,0	0.11	4.25e-04	4.25e-04234,212,212			1.00	0.04	0.96
1038	0.16	0.17	0.0	237,240,0	0.19	0.04	0.07234,212,212	0.34	234	0.85	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.19	0.02	0.02234,212,212			1.00	0.04	0.96
1039	0.13	0.14	0.0	237,240,0	0.19	0.04	0.05234,209,212	0.33	234	0.85	0.06	0.94
	0.04	0.03	0.0	212,209,0	0.19	0.03	0.03234,212,212			1.00	0.04	0.96
1040	0.05	0.10	0.0	237,240,0	0.20	3.71e-03	0.01234,212,224	0.35	234	0.85	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.20	0.01	0.01234,209,209			1.00	0.04	0.96
1041	0.05	0.10	0.0	237,240,0	0.20	5.22e-03	0.02234,212,212	0.35	234	0.85	0.06	0.94
	0.04	0.03	0.0	212,209,0	0.20	0.01	0.01234,209,209			1.00	0.04	0.96
1042	4.06e-03	0.08	0.0	237,100,0	0.21	2.11e-03	9.38e-03234,212,216	0.35	234	0.85	0.06	0.94
	0.02	0.02	0.0	209,212,0	0.21	4.65e-03	4.65e-03234,212,212			1.00	0.04	0.96
1043	3.26e-03	0.08	0.0	237,100,0	0.21	2.11e-03	8.97e-03234,212,216	0.35	234	0.85	0.06	0.94
	0.01	0.01	0.0	209,212,0	0.21	0.01	0.01234,212,212			1.00	0.04	0.96
1044	0.0	0.09	0.0	0,100,0	0.21	2.11e-03	9.34e-03234,212,100	0.35	234	0.0	0.0	0.0
	0.01	0.01	0.0	209,212,0	0.21	1.86e-03	1.86e-03234,212,212			1.00	0.04	0.96
1045	0.0	0.09	0.0	0,100,0	0.21	2.11e-03	9.24e-03234,212,100	0.35	234	0.0	0.0	0.0
	6.67e-03	9.62e-03	0.0	209,216,0	0.21	2.96e-03	2.96e-03234,212,212			1.00	0.04	0.96
1046	0.0	0.10	0.0	0,100,0	0.22	1.22e-03	0.01234,212,215	0.36	234	0.0	0.0	0.0
	7.45e-03	8.95e-03	0.0	209,212,0	0.22	1.35e-03	1.35e-03234,212,212			1.00	0.04	0.96
1047	0.0	0.10	0.0	0,100,0	0.21	1.98e-03	0.01234,212,215	0.36	234	0.0	0.0	0.0
	5.50e-03	0.01	0.0	209,236,0	0.21	1.24e-03	1.24e-03234,209,209			1.00	0.04	0.96
1048	3.02e-03	0.14	0.0	234,100,0	0.22	8.99e-04	0.02234,209,215	0.36	234	0.85	0.06	0.94
	3.20e-03	6.58e-03	0.0	209,224,0	0.22	1.24e-03	1.24e-03234,209,209			1.00	0.04	0.96
1049	0.0	0.14	0.0	0,100,0	0.21	2.25e-03	0.02234,209,100	0.36	234	0.0	0.0	0.0
	1.62e-03	0.01	0.0	221,100,0	0.21	1.24e-03	1.24e-03234,209,209			1.00	0.04	0.96
1050	3.02e-03	0.14	0.0	234,100,0	0.11	8.99e-04	0.02234,209,215	0.26	234	0.85	0.06	0.94
	0.0	5.12e-03	0.0	0,100,0	0.11	5.43e-04	5.43e-04234,212,212			0.0	0.0	0.0
1051	0.0	0.14	0.0	0,100,0	0.13	2.25e-03	0.02234,209,100	0.28	234	0.0	0.0	0.0
	0.0	0.01	0.0	0,100,0	0.13	5.43e-04	5.43e-04234,212,212			0.0	0.0	0.0
1052	0.11	0.12	0.0	237,240,0	0.18	0.03	0.04235,209,212	0.33	235	0.85	0.06	0.94
	0.04	0.03	0.0	212,209,0	0.18	0.03	0.03235,212,212			1.00	0.04	0.96
1053	0.09	0.10	0.0	237,240,0	0.18	0.01	0.02234,212,212	0.32	234	0.85	0.06	0.94
	0.02	0.01	0.0	212,209,0	0.18	8.96e-03	8.96e-03234,211,211			1.00	0.04	0.96
1054	0.05	0.10	0.0	237,240,0	0.20	0.01	0.02235,212,212	0.34	235	0.85	0.06	0.94
	0.04	0.03	0.0	212,209,0	0.20	0.01	0.01235,212,212			1.00	0.04	0.96
1055	0.05	0.10	0.0	237,240,0	0.20	0.01	0.02234,212,212	0.34	234	0.85	0.06	0.94

	0.02	0.01	0.0	212,209,0	0.20	5.49e-03	5.49e-03234,212,212			1.00	0.04	0.96
1056	2.02e-03	0.08	0.0	237,100,0	0.21	1.84e-03	8.00e-03234,210,100	0.35	234	0.85	0.06	0.94
	0.01	0.01	0.0	209,212,0	0.21	0.01	0.01234,212,212			1.00	0.04	0.96
1057	8.56e-04	0.08	0.0	237,100,0	0.20	1.84e-03	7.96e-03234,210,100	0.35	234	0.85	0.06	0.94
	8.21e-03	9.41e-03	0.0	209,212,0	0.20	5.49e-03	5.49e-03234,212,212			1.00	0.04	0.96
1058	0.0	0.09	0.0	0,100,0	0.21	2.37e-03	9.15e-03234,209,100	0.35	234	0.0	0.0	0.0
	2.24e-03	9.62e-03	0.0	221,216,0	0.21	2.96e-03	2.96e-03234,212,212			1.00	0.04	0.96
1059	0.0	0.09	0.0	0,100,0	0.20	2.37e-03	9.13e-03234,209,100	0.35	234	0.0	0.0	0.0
	2.78e-04	6.03e-03	0.0	237,100,0	0.20	9.35e-04	9.35e-04234,219,219			1.00	0.04	0.96
1060	0.0	0.10	0.0	0,100,0	0.21	2.90e-03	0.01234,212,215	0.35	234	0.0	0.0	0.0
	2.24e-03	0.01	0.0	221,236,0	0.21	9.71e-04	9.71e-04234,213,213			1.00	0.04	0.96
1061	0.0	0.10	0.0	0,100,0	0.20	2.90e-03	0.01234,212,215	0.35	234	0.0	0.0	0.0
	2.78e-04	9.18e-03	0.0	237,100,0	0.20	8.86e-04	8.86e-04234,209,209			1.00	0.04	0.96
1062	0.0	0.14	0.0	0,100,0	0.21	3.57e-03	0.02234,209,216	0.35	234	0.0	0.0	0.0
	1.28e-03	0.02	0.0	237,100,0	0.21	1.55e-03	1.55e-03234,209,209			1.00	0.04	0.96
1063	0.0	0.14	0.0	0,100,0	0.19	3.57e-03	0.02234,209,216	0.34	234	0.0	0.0	0.0
	0.0	0.02	0.0	0,100,0	0.19	1.55e-03	1.55e-03234,209,209			0.0	0.0	0.0
1064	0.0	0.14	0.0	0,100,0	0.15	3.57e-03	0.02234,209,216	0.30	234	0.0	0.0	0.0
	0.0	0.02	0.0	0,100,0	0.15	1.55e-03	1.55e-03234,209,209			0.0	0.0	0.0
1065	0.0	0.14	0.0	0,100,0	0.15	3.57e-03	0.02234,209,216	0.30	234	0.0	0.0	0.0
	0.0	0.02	0.0	0,100,0	0.15	1.55e-03	1.55e-03234,209,209			0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.23	0.25	0.0	0.22	0.04	0.07	0.36

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
33	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.90	-136.3	203	0.90	-136.2	203	0.57	8281.7	2.656e+06	234

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1066	0.09	0.20	0.0	221,224,0	0.21	8.18e-03	0.03235,220,220		0.35	235	0.85	0.06	0.94
	4.01e-03	5.03e-03	0.0	221,224,0	0.21	1.48e-03	1.48e-03235,228,228				1.00	0.04	0.96
1067	0.09	0.20	0.0	221,224,0	0.21	8.18e-03	0.03235,220,220		0.35	235	0.85	0.06	0.94
	8.55e-03	7.88e-03	0.0	217,220,0	0.21	6.09e-03	6.09e-03235,220,220				1.00	0.04	0.96
1068	0.09	0.20	0.0	221,224,0	0.23	8.18e-03	0.03235,220,220		0.37	235	0.85	0.06	0.94
	0.02	0.02	0.0	209,212,0	0.23	6.09e-03	6.09e-03235,220,220				1.00	0.04	0.96
1069	0.09	0.20	0.0	221,224,0	0.21	8.18e-03	0.03235,220,220		0.36	235	0.85	0.06	0.94
	8.10e-03	8.42e-03	0.0	217,220,0	0.21	1.69e-03	1.69e-03235,224,224				1.00	0.04	0.96
1070	0.08	0.18	0.0	217,220,0	0.22	2.74e-03	0.03235,215,220		0.36	235	0.85	0.06	0.94
	8.55e-03	7.88e-03	0.0	217,220,0	0.22	6.09e-03	6.09e-03235,220,220				1.00	0.04	0.96
1071	0.08	0.18	0.0	217,220,0	0.24	2.74e-03	0.03235,215,220		0.38	235	0.85	0.06	0.94
	0.02	0.02	0.0	209,215,0	0.24	6.09e-03	6.09e-03235,220,220				1.00	0.04	0.96
1072	0.07	0.16	0.0	214,212,0	0.24	2.33e-03	0.02235,221,212		0.38	235	0.85	0.06	0.94
	7.15e-03	7.82e-03	0.0	209,215,0	0.24	5.10e-03	5.10e-03235,220,220				1.00	0.04	0.96
1073	0.07	0.16	0.0	214,212,0	0.25	2.33e-03	0.02235,221,212		0.39	235	0.85	0.06	0.94
	0.02	0.02	0.0	214,215,0	0.25	5.10e-03	5.10e-03235,220,220				1.00	0.04	0.96
1074	5.93e-03	0.07	0.0	214,100,0	0.23	1.45e-03	8.44e-03235,220,215		0.37	235	0.85	0.06	0.94
	0.02	0.02	0.0	209,212,0	0.23	1.69e-03	1.69e-03235,224,224				1.00	0.04	0.96
1075	5.57e-03	0.07	0.0	214,100,0	0.21	1.45e-03	8.44e-03235,220,215		0.36	235	0.85	0.06	0.94
	8.10e-03	8.42e-03	0.0	217,220,0	0.21	1.69e-03	1.69e-03235,224,224				1.00	0.04	0.96
1076	5.93e-03	0.07	0.0	214,100,0	0.24	9.46e-04	8.32e-03235,218,215		0.38	235	0.85	0.06	0.94
	0.02	0.02	0.0	214,215,0	0.24	1.23e-03	1.23e-03235,215,215				1.00	0.04	0.96
1077	4.19e-03	0.07	0.0	214,100,0	0.25	6.35e-04	7.94e-03235,213,100		0.39	235	0.85	0.06	0.94
	0.02	0.02	0.0	214,215,0	0.25	1.59e-03	1.59e-03235,212,212				1.00	0.04	0.96
1078	0.0	0.04	0.0	0,100,0	0.22	1.51e-03	4.32e-03235,217,100		0.36	235	0.0	0.0	0.0
	0.01	0.01	0.0	214,215,0	0.22	1.52e-03	1.52e-03235,219,219				1.00	0.04	0.96
1079	0.0	0.04	0.0	0,100,0	0.21	1.51e-03	4.31e-03235,217,100		0.35	235	0.0	0.0	0.0
	6.30e-03	6.86e-03	0.0	214,215,0	0.21	1.52e-03	1.52e-03235,219,219				1.00	0.04	0.96
1080	0.0	0.04	0.0	0,100,0	0.22	1.16e-03	4.32e-03235,218,100		0.36	235	0.0	0.0	0.0
	0.02	0.02	0.0	214,215,0	0.22	1.64e-03	1.64e-03235,220,220				1.00	0.04	0.96
1081	0.0	0.04	0.0	0,100,0	0.23	6.85e-04	4.17e-03235,218,100		0.37	235	0.0	0.0	0.0
	0.02	0.02	0.0	214,215,0	0.23	1.64e-03	1.64e-03235,220,220				1.00	0.04	0.96
1082	0.0	0.03	0.0	0,100,0	0.21	1.94e-03	4.08e-03235,220,221		0.36	235	0.0	0.0	0.0
	0.01	0.01	0.0	214,215,0	0.21	1.22e-03	1.22e-03235,212,212				1.00	0.04	0.96
1083	0.0	0.03	0.0	0,100,0	0.20	1.94e-03	3.60e-03235,220,221		0.35	235	0.0	0.0	0.0
	6.84e-03	5.81e-03	0.0	234,215,0	0.20	1.10e-03	1.10e-03235,219,219				1.00	0.04	0.96
1084	5.40e-03	0.03	0.0	234,100,0	0.22	1.52e-03	4.37e-03235,220,215		0.36	235	0.85	0.06	0.94

	0.01	0.01	0.0 214,215,0	0.22	1.64e-03	1.64e-03	235,220,220			1.00	0.04	0.96
1085	9.19e-03	0.03	0.0 234,235,0	0.22	9.73e-04	4.37e-03	235,223,215	0.36	235	0.85	0.06	0.94
	0.01	0.01	0.0 214,215,0	0.22	1.64e-03	1.64e-03	235,220,220			1.00	0.04	0.96
1086	0.18	0.17	0.0 234,235,0	0.21	2.42e-03	0.02	235,219,235	0.36	235	0.85	0.06	0.94
	0.01	0.01	0.0 234,235,0	0.21	1.01e-03	1.01e-03	235,212,212			1.00	0.04	0.96
1087	0.18	0.17	0.0 234,235,0	0.20	2.42e-03	0.02	235,219,235	0.35	235	0.85	0.06	0.94
	6.84e-03	5.76e-03	0.0 234,235,0	0.20	8.32e-04	8.32e-04	235,219,219			1.00	0.04	0.96
1088	0.15	0.14	0.0 234,235,0	0.22	2.00e-03	0.02	235,219,235	0.36	235	0.85	0.06	0.94
	0.01	0.01	0.0 234,235,0	0.22	1.45e-03	1.45e-03	235,212,212			1.00	0.04	0.96
1089	0.12	0.12	0.0 234,235,0	0.22	1.30e-03	0.01	235,223,235	0.36	235	0.85	0.06	0.94
	0.01	9.88e-03	0.0 214,215,0	0.22	1.54e-03	1.54e-03	235,215,215			1.00	0.04	0.96
1090	0.18	0.17	0.0 234,235,0	0.17	2.42e-03	0.02	235,219,235	0.32	235	0.85	0.06	0.94
	6.87e-03	5.40e-03	0.0 234,235,0	0.17	5.89e-04	5.89e-04	235,219,219			1.00	0.04	0.96
1091	0.18	0.17	0.0 234,235,0	0.17	2.42e-03	0.02	235,219,235	0.32	235	0.85	0.06	0.94
	4.00e-03	3.28e-03	0.0 234,235,0	0.17	5.89e-04	5.89e-04	235,219,219			1.00	0.04	0.96
1092	0.15	0.14	0.0 234,235,0	0.15	2.00e-03	0.02	235,219,235	0.29	235	0.85	0.06	0.94
	6.87e-03	5.40e-03	0.0 234,235,0	0.15	7.03e-04	7.03e-04	235,215,215			1.00	0.04	0.96
1093	0.12	0.12	0.0 234,235,0	0.12	1.30e-03	0.01	235,223,235	0.27	235	0.85	0.06	0.94
	4.75e-03	4.02e-03	0.0 234,235,0	0.12	8.07e-04	8.07e-04	235,212,212			1.00	0.04	0.96
1094	0.07	0.16	0.0 214,215,0	0.28	2.97e-03	0.02	235,212,215	0.41	235	0.85	0.06	0.94
	5.09e-03	0.01	0.0 214,215,0	0.28	4.67e-03	4.67e-03	235,212,212			1.00	0.04	0.96
1095	0.07	0.16	0.0 214,215,0	0.28	2.97e-03	0.02	235,212,215	0.41	235	0.85	0.06	0.94
	0.01	0.02	0.0 214,215,0	0.28	4.67e-03	4.67e-03	235,212,212			1.00	0.04	0.96
1096	0.07	0.15	0.0 214,215,0	0.33	5.41e-03	0.02	235,215,215	0.44	235	0.85	0.06	0.94
	3.00e-03	0.01	0.0 234,215,0	0.33	5.00e-03	5.00e-03	235,216,216			1.00	0.04	0.96
1097	0.07	0.15	0.0 214,215,0	0.33	5.41e-03	0.02	235,215,215	0.44	235	0.85	0.06	0.94
	9.84e-03	0.02	0.0 214,215,0	0.33	5.00e-03	5.00e-03	235,216,216			1.00	0.04	0.96
1098	1.23e-03	0.07	0.0 209,100,0	0.26	5.79e-04	7.96e-03	235,220,100	0.39	235	0.85	0.06	0.94
	0.01	0.02	0.0 214,215,0	0.26	1.59e-03	1.59e-03	235,212,212			1.00	0.04	0.96
1099	0.0	0.07	0.0 0,100,0	0.26	9.98e-04	8.66e-03	235,213,100	0.39	235	0.0	0.0	0.0
	0.01	0.02	0.0 214,215,0	0.26	2.01e-03	2.01e-03	235,212,212			1.00	0.04	0.96
1100	0.0	0.03	0.0 0,100,0	0.23	5.23e-04	3.92e-03	235,213,100	0.37	235	0.0	0.0	0.0
	0.01	0.02	0.0 214,215,0	0.23	1.51e-03	1.51e-03	235,212,212			1.00	0.04	0.96
1101	0.0	0.03	0.0 0,100,0	0.22	1.13e-03	3.84e-03	235,217,100	0.36	235	0.0	0.0	0.0
	0.01	0.02	0.0 214,215,0	0.22	1.38e-03	1.38e-03	235,211,211			1.00	0.04	0.96
1102	0.01	0.03	0.0 234,235,0	0.21	7.08e-04	4.48e-03	235,219,215	0.35	235	0.85	0.06	0.94
	0.01	0.01	0.0 214,215,0	0.21	1.54e-03	1.54e-03	235,215,215			1.00	0.04	0.96
1103	0.01	0.03	0.0 234,235,0	0.21	1.62e-03	4.89e-03	234,219,215	0.35	234	0.85	0.06	0.94
	9.26e-03	0.01	0.0 214,215,0	0.21	1.38e-03	1.38e-03	234,211,211			1.00	0.04	0.96
1104	0.08	0.09	0.0 234,235,0	0.21	9.97e-04	0.01	235,212,235	0.35	235	0.85	0.06	0.94
	8.94e-03	9.27e-03	0.0 214,215,0	0.21	1.54e-03	1.54e-03	235,215,215			1.00	0.04	0.96
1105	0.05	0.06	0.0 234,235,0	0.20	2.12e-03	7.36e-03	234,220,235	0.34	234	0.85	0.06	0.94
	5.65e-03	8.24e-03	0.0 214,215,0	0.20	1.38e-03	1.38e-03	234,215,215			1.00	0.04	0.96
1106	0.08	0.09	0.0 234,235,0	0.11	9.97e-04	0.01	235,212,235	0.25	235	0.85	0.06	0.94
	3.31e-03	3.35e-03	0.0 214,215,0	0.11	8.07e-04	8.07e-04	235,212,212			1.00	0.04	0.96
1107	0.05	0.06	0.0 234,235,0	0.10	2.12e-03	7.36e-03	234,220,235	0.24	234	0.85	0.06	0.94
	1.63e-03	2.90e-03	0.0 214,100,0	0.10	7.24e-04	7.24e-04	234,212,212			1.00	0.04	0.96
1108	0.11	0.29	0.0 234,235,0	0.38	5.41e-03	0.04	235,215,235	0.47	235	0.85	0.06	0.94
	0.02	6.36e-03	0.0 100,235,0	0.38	5.00e-03	5.00e-03	235,216,216			1.00	0.04	0.96
1109	0.11	0.29	0.0 234,235,0	0.42	5.41e-03	0.04	235,215,235	0.50	235	0.85	0.06	0.94
	0.03	0.03	0.0 234,235,0	0.42	5.00e-03	5.00e-03	235,216,216			1.00	0.04	0.96
1110	0.11	0.29	0.0 234,235,0	0.42	1.06e-03	0.04	235,214,235	0.50	235	0.85	0.06	0.94
	0.03	0.03	0.0 234,235,0	0.42	4.58e-03	4.58e-03	235,211,211			1.00	0.04	0.96
1111	0.02	0.08	0.0 214,215,0	0.42	1.63e-03	9.56e-03	235,215,215	0.50	235	0.85	0.06	0.94
	0.03	0.03	0.0 234,235,0	0.42	4.58e-03	4.58e-03	235,211,211			1.00	0.04	0.96
1112	3.22e-03	0.07	0.0 214,100,0	0.26	1.63e-03	8.66e-03	235,215,100	0.39	235	0.85	0.06	0.94
	9.51e-03	0.02	0.0 234,235,0	0.26	2.01e-03	2.01e-03	235,212,212			1.00	0.04	0.96
1113	3.22e-03	0.05	0.0 214,100,0	0.25	1.63e-03	6.40e-03	235,215,215	0.38	235	0.85	0.06	0.94
	9.51e-03	0.02	0.0 234,235,0	0.25	1.53e-03	1.53e-03	235,215,215			1.00	0.04	0.96
1114	0.0	0.03	0.0 0,100,0	0.22	2.04e-03	3.77e-03	235,218,100	0.36	235	0.0	0.0	0.0
	6.96e-03	0.02	0.0 234,215,0	0.22	1.53e-03	1.53e-03	235,215,215			1.00	0.04	0.96
1115	0.0	0.03	0.0 0,100,0	0.21	2.04e-03	3.53e-03	234,218,214	0.35	234	0.0	0.0	0.0
	6.96e-03	0.01	0.0 234,235,0	0.21	1.53e-03	1.53e-03	234,215,215			1.00	0.04	0.96
1116	0.01	0.03	0.0 234,235,0	0.21	2.70e-03	4.90e-03	234,219,215	0.35	234	0.85	0.06	0.94
	4.52e-03	0.01	0.0 214,215,0	0.21	1.53e-03	1.53e-03	234,211,211			1.00	0.04	0.96
1117	0.01	0.03	0.0 234,235,0	0.20	2.70e-03	4.90e-03	234,219,215	0.35	234	0.85	0.06	0.94
	2.61e-03	6.38e-03	0.0 240,235,0	0.20	1.53e-03	1.53e-03	234,211,211			1.00	0.04	0.96
1118	0.02	0.03	0.0 234,235,0	0.19	3.25e-03	5.46e-03	234,224,215	0.34	234	0.85	0.06	0.94
	1.87e-03	6.85e-03	0.0 214,215,0	0.19	1.03e-03	1.03e-03	234,212,212			1.00	0.04	0.96
1119	0.01	0.03	0.0 234,235,0	0.18	3.25e-03	4.90e-03	234,224,215	0.33	234	0.85	0.06	0.94
	0.0	3.56e-03	0.0 0,100,0	0.18	1.03e-03	1.03e-03	234,212,212			0.0	0.0	0.0
1120	0.02	0.03	0.0 234,235,0	0.10	3.25e-03	5.46e-03	234,224,215	0.24	234	0.85	0.06	0.94
	0.0	2.90e-03	0.0 0,100,0	0.10	5.71e-04	5.71e-04	234,212,212			0.0	0.0	0.0
1121	0.0	0.02	0.0 0,99,0	0.10	3.25e-03	4.72e-03	234,224,221	0.24	234	0.0	0.0	0.0
	0.0	2.70e-03	0.0 0,100,0	0.10	5.71e-04	5.71e-04	234,212,212			0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26

	0.18	0.29	0.0	0.42	8.18e-03	0.04	0.50

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
34	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.70	60.8	177	0.66	57.7	177	0.69	3671.7	2.052e+06	220

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1066	0.12	0.16	0.0	217,220,0	0.12	3.13e-03	0.02214,224,220		0.26	214	0.85	0.06	0.94
	0.0	5.09e-03	0.0	0,100,0	0.12	6.38e-04	6.38e-04214,224,224				0.0	0.0	0.0
1067	0.12	0.16	0.0	217,220,0	0.12	3.13e-03	0.02210,224,220		0.27	210	0.85	0.06	0.94
	2.39e-03	5.09e-03	0.0	235,100,0	0.12	2.45e-03	2.45e-03210,240,240				1.00	0.04	0.96
1070	0.09	0.16	0.0	209,215,0	0.12	1.09e-03	0.02210,237,212		0.27	210	0.85	0.06	0.94
	2.39e-03	4.58e-03	0.0	235,234,0	0.12	2.45e-03	2.45e-03210,240,240				1.00	0.04	0.96
1072	0.08	0.17	0.0	214,215,0	0.13	1.36e-03	0.02210,237,215		0.27	210	0.85	0.06	0.94
	1.18e-03	3.69e-03	0.0	235,100,0	0.13	1.76e-03	1.76e-03210,240,240				1.00	0.04	0.96
1094	0.08	0.17	0.0	214,215,0	0.13	1.36e-03	0.02210,237,215		0.28	210	0.85	0.06	0.94
	0.0	7.53e-03	0.0	0,100,0	0.13	1.59e-03	1.59e-03210,100,100				0.0	0.0	0.0
1096	0.09	0.18	0.0	234,235,0	0.13	3.02e-03	0.02210,100,235		0.28	210	0.85	0.06	0.94
	3.16e-03	7.53e-03	0.0	240,100,0	0.13	1.59e-03	1.59e-03210,100,100				1.00	0.04	0.96
1108	0.10	0.18	0.0	234,235,0	0.14	3.02e-03	0.02210,100,235		0.28	210	0.85	0.06	0.94
	3.51e-03	5.19e-03	0.0	224,221,0	0.14	2.02e-03	2.02e-03210,214,214				1.00	0.04	0.96
1110	0.10	0.17	0.0	234,235,0	0.14	6.37e-04	0.02210,223,235		0.28	210	0.85	0.06	0.94
	3.51e-03	5.19e-03	0.0	224,221,0	0.14	2.02e-03	2.02e-03210,214,214				1.00	0.04	0.96
1122	0.12	0.16	0.0	217,220,0	0.15	3.13e-03	0.02217,224,220		0.30	217	0.85	0.06	0.94
	7.57e-03	5.60e-03	0.0	235,234,0	0.15	2.45e-03	2.45e-03217,240,240				1.00	0.04	0.96
1123	0.12	0.16	0.0	217,220,0	0.13	3.13e-03	0.02217,224,220		0.28	217	0.85	0.06	0.94
	4.20e-03	5.09e-03	0.0	235,100,0	0.13	1.01e-03	1.01e-03217,228,228				1.00	0.04	0.96
1124	0.09	0.16	0.0	209,215,0	0.16	1.09e-03	0.02217,237,212		0.31	217	0.85	0.06	0.94
	7.57e-03	5.60e-03	0.0	235,234,0	0.16	2.45e-03	2.45e-03217,240,240				1.00	0.04	0.96
1125	0.08	0.17	0.0	214,215,0	0.17	1.36e-03	0.02217,237,215		0.32	217	0.85	0.06	0.94
	4.94e-03	3.88e-03	0.0	216,234,0	0.17	1.76e-03	1.76e-03217,240,240				1.00	0.04	0.96
1126	0.04	0.14	0.0	224,100,0	0.15	1.38e-03	0.02217,233,100		0.30	217	0.85	0.06	0.94
	9.01e-03	6.21e-03	0.0	211,214,0	0.15	1.15e-03	1.15e-03217,236,236				1.00	0.04	0.96
1127	0.03	0.14	0.0	224,100,0	0.13	1.38e-03	0.02217,233,100		0.28	217	0.85	0.06	0.94
	5.37e-03	4.22e-03	0.0	211,214,0	0.13	1.15e-03	1.15e-03217,236,236				1.00	0.04	0.96
1128	0.04	0.13	0.0	224,100,0	0.16	1.24e-03	0.02217,235,100		0.31	217	0.85	0.06	0.94
	9.01e-03	6.21e-03	0.0	211,214,0	0.16	7.38e-04	7.38e-04217,240,240				1.00	0.04	0.96
1129	0.04	0.13	0.0	224,100,0	0.17	8.62e-04	0.01217,235,100		0.32	217	0.85	0.06	0.94
	6.14e-03	4.09e-03	0.0	224,221,0	0.17	7.38e-04	7.38e-04217,240,240				1.00	0.04	0.96
1130	0.28	0.34	0.0	220,217,0	0.14	2.53e-03	0.04217,236,217		0.29	217	0.85	0.06	0.94
	9.01e-03	6.21e-03	0.0	211,214,0	0.14	1.15e-03	1.15e-03217,236,236				1.00	0.04	0.96
1131	0.28	0.34	0.0	220,217,0	0.13	2.53e-03	0.04217,236,217		0.27	217	0.85	0.06	0.94
	5.37e-03	4.22e-03	0.0	211,214,0	0.13	1.15e-03	1.15e-03217,236,236				1.00	0.04	0.96
1132	0.24	0.30	0.0	220,217,0	0.15	1.94e-03	0.04217,240,221		0.30	217	0.85	0.06	0.94
	9.01e-03	6.21e-03	0.0	211,214,0	0.15	7.38e-04	7.38e-04217,240,240				1.00	0.04	0.96
1133	0.21	0.26	0.0	220,217,0	0.15	1.14e-03	0.03217,234,221		0.30	217	0.85	0.06	0.94
	6.14e-03	4.09e-03	0.0	224,221,0	0.15	7.38e-04	7.38e-04217,240,240				1.00	0.04	0.96
1134	0.28	0.34	0.0	220,217,0	0.10	2.53e-03	0.04209,236,217		0.24	209	0.85	0.06	0.94
	5.25e-03	3.71e-03	0.0	211,210,0	0.10	7.76e-04	7.76e-04209,228,228				1.00	0.04	0.96
1135	0.28	0.34	0.0	220,217,0	0.10	2.53e-03	0.04209,236,217		0.24	209	0.85	0.06	0.94
	3.26e-03	2.66e-03	0.0	211,210,0	0.10	7.76e-04	7.76e-04209,228,228				1.00	0.04	0.96
1136	0.24	0.30	0.0	220,217,0	0.08	1.94e-03	0.04217,240,221		0.21	217	0.85	0.06	0.94
	5.25e-03	3.71e-03	0.0	211,210,0	0.08	5.73e-04	5.73e-04217,240,240				1.00	0.04	0.96
1137	0.21	0.26	0.0	220,217,0	0.06	1.14e-03	0.03217,234,221		0.19	217	0.85	0.06	0.94
	3.00e-03	2.12e-03	0.0	220,217,0	0.06	5.73e-04	5.73e-04217,240,240				1.00	0.04	0.96
1138	0.08	0.17	0.0	214,215,0	0.17	1.36e-03	0.02217,237,215		0.32	217	0.85	0.06	0.94
	3.58e-03	7.53e-03	0.0	224,100,0	0.17	1.59e-03	1.59e-03217,100,100				1.00	0.04	0.96
1139	0.09	0.18	0.0	234,235,0	0.18	3.02e-03	0.02217,100,235		0.32	217	0.85	0.06	0.94
	3.16e-03	0.01	0.0	240,100,0	0.18	1.59e-03	1.59e-03217,100,100				1.00	0.04	0.96
1140	0.04	0.13	0.0	224,100,0	0.17	4.91e-04	0.01217,233,100		0.32	217	0.85	0.06	0.94
	4.14e-03	7.11e-03	0.0	224,100,0	0.17	5.53e-04	5.53e-04217,236,236				1.00	0.04	0.96
1141	0.03	0.13	0.0	224,100,0	0.18	1.35e-03	0.02217,235,100		0.32	217	0.85	0.06	0.94
	2.37e-03	0.01	0.0	240,100,0	0.18	7.47e-04	7.47e-04217,224,224				1.00	0.04	0.96
1142	0.17	0.22	0.0	220,217,0	0.15	9.63e-04	0.03217,236,221		0.30	217	0.85	0.06	0.94
	4.14e-03	4.99e-03	0.0	224,100,0	0.15	5.53e-04	5.53e-04217,236,236				1.00	0.04	0.96
1143	0.14	0.19	0.0	220,217,0	0.15	1.94e-03	0.02217,240,221		0.30	217	0.85	0.06	0.94
	1.73e-03	9.95e-03	0.0	240,100,0	0.15	5.36e-04	5.36e-04217,238,238				1.00	0.04	0.96

1144	0.17	0.22	0.0	220,217,0	0.05	9.63e-04	0.03217,236,221	0.17	217	0.85	0.06	0.94
	1.88e-03	2.25e-03	0.0	220,100,0	0.05	5.05e-04	5.05e-04217,240,240			1.00	0.04	0.96
1145	0.14	0.19	0.0	220,217,0	0.05	1.94e-03	0.02217,240,221	0.16	217	0.85	0.06	0.94
	1.37e-04	5.63e-03	0.0	240,100,0	0.05	4.28e-04	4.28e-04217,240,240			1.00	0.04	0.96
1146	0.10	0.18	0.0	234,235,0	0.18	3.02e-03	0.02217,100,235	0.32	217	0.85	0.06	0.94
	3.51e-03	0.01	0.0	224,100,0	0.18	2.02e-03	2.02e-03217,214,214			1.00	0.04	0.96
1147	0.10	0.17	0.0	234,235,0	0.17	2.67e-03	0.02217,235,235	0.32	217	0.85	0.06	0.94
	3.51e-03	0.01	0.0	224,100,0	0.17	2.02e-03	2.02e-03217,214,214			1.00	0.04	0.96
1148	0.03	0.13	0.0	224,100,0	0.18	2.67e-03	0.02217,235,100	0.32	217	0.85	0.06	0.94
	0.0	0.01	0.0	0,100,0	0.18	7.47e-04	7.47e-04217,224,224			0.0	0.0	0.0
1149	0.02	0.12	0.0	224,100,0	0.17	2.67e-03	0.01217,235,235	0.32	217	0.85	0.06	0.94
	0.0	0.01	0.0	0,100,0	0.17	6.57e-04	6.57e-04217,224,224			0.0	0.0	0.0
1150	0.10	0.16	0.0	224,221,0	0.15	2.86e-03	0.02217,240,221	0.29	217	0.85	0.06	0.94
	0.0	9.95e-03	0.0	0,100,0	0.15	6.93e-04	6.93e-04217,232,232			0.0	0.0	0.0
1151	0.07	0.14	0.0	224,221,0	0.14	2.86e-03	0.02217,240,221	0.29	217	0.85	0.06	0.94
	0.0	9.45e-03	0.0	0,100,0	0.14	6.93e-04	6.93e-04217,232,232			0.0	0.0	0.0
1152	0.10	0.16	0.0	224,221,0	0.05	2.86e-03	0.02211,240,221	0.17	211	0.85	0.06	0.94
	0.0	9.45e-03	0.0	0,100,0	0.05	6.93e-04	6.93e-04211,232,232			0.0	0.0	0.0
1153	0.07	0.14	0.0	224,221,0	0.05	2.86e-03	0.02211,240,221	0.17	211	0.85	0.06	0.94
	0.0	9.45e-03	0.0	0,100,0	0.05	6.93e-04	6.93e-04211,232,232			0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.28	0.34	0.0	0.18	3.13e-03	0.04	0.32

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
35	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.83	210.0	186	0.71	-177.6	187	0.97	-1.679e+04	1.201e+07	219

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
490	6.20e-03	0.06	0.0	219,100,0	0.19	4.99e-03	7.27e-03218,239,230		0.33	218	0.87	0.06	0.94
	0.05	0.03	0.0	231,233,0	0.19	0.02	0.02218,233,233				1.00	0.04	0.96
534	0.13	0.11	0.0	219,218,0	0.08	3.57e-03	0.01218,228,218		0.21	218	0.87	0.06	0.94
	0.01	7.29e-03	0.0	231,230,0	0.08	3.90e-03	3.90e-03218,231,231				1.00	0.04	0.96
536	0.07	0.08	0.0	219,218,0	0.11	3.81e-03	9.69e-03218,228,230		0.25	218	0.87	0.06	0.94
	0.02	0.02	0.0	231,230,0	0.11	5.77e-03	5.77e-03218,231,231				1.00	0.04	0.96
538	0.04	0.05	0.0	224,218,0	0.12	4.34e-03	7.58e-03 218,44,44		0.26	218	0.87	0.06	0.94
	0.04	0.03	0.0	231,230,0	0.12	7.56e-03	7.56e-03218,227,227				1.00	0.04	0.96
540	9.34e-03	0.04	0.0	224,100,0	0.12	5.80e-03	0.01 218,44,44		0.27	218	0.87	0.06	0.94
	0.06	0.04	0.0	231,230,0	0.12	0.02	0.02 218,44,44				1.00	0.04	0.96
542	0.0	0.05	0.0	0,100,0	0.13	5.80e-03	0.01 218,44,44		0.28	218	0.0	0.0	0.0
	0.07	0.06	0.0	45,46,0	0.13	0.02	0.02218,233,233				1.00	0.04	0.96
544	0.0	0.06	0.0	0,100,0	0.13	3.08e-03	7.37e-03218,230,100		0.28	218	0.0	0.0	0.0
	0.07	0.06	0.0	45,46,0	0.13	0.02	0.02218,233,233				1.00	0.04	0.96
591	0.15	0.32	0.0	218,219,0	0.19	5.50e-03	0.04219,235,219		0.34	219	0.87	0.06	0.94
	5.17e-03	0.01	0.0	218,219,0	0.19	5.49e-04	5.49e-04219,227,227				1.00	0.04	0.96
592	0.15	0.32	0.0	218,219,0	0.14	5.50e-03	0.04219,235,219		0.29	219	0.87	0.06	0.94
	2.97e-03	0.01	0.0	218,219,0	0.14	1.37e-04	1.37e-04219,240,240				1.00	0.04	0.96
1192	9.47e-03	0.06	0.0	231,100,0	0.19	4.99e-03	7.27e-03218,239,230		0.33	218	0.87	0.06	0.94
	0.05	0.03	0.0	231,233,0	0.19	0.02	0.02218,233,233				1.00	0.04	0.96
1193	0.13	0.11	0.0	219,218,0	0.08	3.57e-03	0.01218,228,218		0.21	218	0.87	0.06	0.94
	0.01	7.29e-03	0.0	231,230,0	0.08	3.90e-03	3.90e-03218,231,231				1.00	0.04	0.96
1194	0.01	0.05	0.0	231,100,0	0.19	1.87e-03	6.64e-03218,228,230		0.33	218	0.87	0.06	0.94
	0.03	0.03	0.0	233,44,0	0.19	0.02	0.02218,231,231				1.00	0.04	0.96
1195	0.10	0.09	0.0	219,218,0	0.07	2.89e-03	0.01218,228,230		0.21	218	0.87	0.06	0.94
	6.94e-03	5.28e-03	0.0	231,230,0	0.07	3.42e-03	3.42e-03218,227,227				1.00	0.04	0.96
1196	0.01	0.05	0.0	231,100,0	0.18	1.93e-03	7.34e-03218,236,230		0.33	218	0.87	0.06	0.94
	0.02	0.03	0.0	226,44,0	0.18	0.01	0.01218,227,227				1.00	0.04	0.96
1197	0.08	0.07	0.0	219,218,0	0.07	1.86e-03	9.49e-03218,232,230		0.21	218	0.87	0.06	0.94
	4.60e-03	4.21e-03	0.0	225,228,0	0.07	2.69e-03	2.69e-03218,227,227				1.00	0.04	0.96
1198	0.07	0.08	0.0	219,218,0	0.11	3.81e-03	9.79e-03218,228,230		0.25	218	0.87	0.06	0.94
	0.02	0.02	0.0	231,230,0	0.11	5.77e-03	5.77e-03218,231,231				1.00	0.04	0.96
1199	0.07	0.07	0.0	219,218,0	0.10	2.93e-03	9.79e-03218,228,230		0.25	218	0.87	0.06	0.94
	0.02	0.01	0.0	231,230,0	0.10	5.43e-03	5.43e-03218,227,227				1.00	0.04	0.96
1200	0.06	0.07	0.0	219,218,0	0.10	1.95e-03	9.49e-03218,228,230		0.24	218	0.87	0.06	0.94
	0.01	0.01	0.0	227,227,0	0.10	4.87e-03	4.87e-03218,227,227				1.00	0.04	0.96
1201	0.04	0.05	0.0	224,218,0	0.12	4.34e-03	7.61e-03218,44,230		0.26	218	0.87	0.06	0.94
	0.04	0.03	0.0	231,230,0	0.12	7.56e-03	7.56e-03218,227,227				1.00	0.04	0.96

1202	0.04	0.05	0.0	224,218,0	0.12	2.93e-03	7.61e-03	218,228,230	0.26	218	0.87	0.06	0.94
	0.04	0.03	0.0	227,226,0	0.12	7.31e-03	7.31e-03	218,227,227			1.00	0.04	0.96
1203	0.03	0.05	0.0	224,218,0	0.12	1.95e-03	7.55e-03	218,228,230	0.26	218	0.87	0.06	0.94
	0.03	0.02	0.0	227,227,0	0.12	7.01e-03	7.01e-03	218,227,227			1.00	0.04	0.96
1204	0.01	0.04	0.0	220,100,0	0.12	5.80e-03	0.01	218,44,44	0.27	218	0.87	0.06	0.94
	0.06	0.04	0.0	231,230,0	0.12	0.02	0.02	218,44,44			1.00	0.04	0.96
1205	0.01	0.04	0.0	220,100,0	0.12	2.59e-03	5.98e-03	218,228,230	0.27	218	0.87	0.06	0.94
	0.06	0.04	0.0	227,227,0	0.12	9.28e-03	9.28e-03	218,231,231			1.00	0.04	0.96
1206	0.01	0.04	0.0	220,100,0	0.12	1.78e-03	5.87e-03	218,228,230	0.27	218	0.87	0.06	0.94
	0.05	0.04	0.0	227,227,0	0.12	8.57e-03	8.57e-03	218,225,225			1.00	0.04	0.96
1207	0.0	0.05	0.0	0,100,0	0.13	5.80e-03	0.01	218,44,44	0.28	218	0.0	0.0	0.0
	0.07	0.06	0.0	45,46,0	0.13	0.02	0.02	218,233,233			1.00	0.04	0.96
1208	0.0	0.05	0.0	0,100,0	0.13	2.36e-03	6.62e-03	218,230,28	0.28	218	0.0	0.0	0.0
	0.06	0.04	0.0	227,227,0	0.13	0.02	0.02	218,233,233			1.00	0.04	0.96
1209	0.0	0.05	0.0	0,100,0	0.13	1.51e-03	6.32e-03	218,230,100	0.28	218	0.0	0.0	0.0
	0.05	0.04	0.0	227,227,0	0.13	0.02	0.02	218,225,225			1.00	0.04	0.96
1210	0.0	0.06	0.0	0,100,0	0.13	3.08e-03	7.37e-03	218,230,100	0.28	218	0.0	0.0	0.0
	0.07	0.06	0.0	45,46,0	0.13	0.02	0.02	218,233,233			1.00	0.04	0.96
1211	0.0	0.05	0.0	0,100,0	0.13	2.15e-03	6.62e-03	218,44,28	0.28	218	0.0	0.0	0.0
	0.05	0.04	0.0	227,42,0	0.13	0.02	0.02	218,233,233			1.00	0.04	0.96
1212	0.0	0.05	0.0	0,100,0	0.14	1.93e-03	7.34e-03	218,236,230	0.28	218	0.0	0.0	0.0
	0.04	0.03	0.0	227,227,0	0.14	0.02	0.02	218,225,225			1.00	0.04	0.96
1216	0.02	0.04	0.0	231,100,0	0.18	1.93e-03	7.34e-03	218,236,230	0.32	218	0.87	0.06	0.94
	0.01	0.02	0.0	45,44,0	0.18	0.01	0.01	218,231,231			1.00	0.04	0.96
1217	0.06	0.06	0.0	219,218,0	0.07	2.30e-03	8.57e-03	219,226,230	0.20	219	0.87	0.06	0.94
	3.88e-03	4.32e-03	0.0	230,228,0	0.07	2.16e-03	2.16e-03	219,227,227			1.00	0.04	0.96
1218	0.02	0.04	0.0	227,100,0	0.17	2.04e-03	7.80e-03	218,230,226	0.32	218	0.87	0.06	0.94
	0.01	0.03	0.0	219,100,0	0.17	9.24e-03	9.24e-03	218,225,225			1.00	0.04	0.96
1219	0.05	0.06	0.0	219,218,0	0.07	3.72e-03	9.21e-03	219,226,230	0.20	219	0.87	0.06	0.94
	5.88e-03	6.07e-03	0.0	230,228,0	0.07	2.04e-03	2.04e-03	219,228,228			1.00	0.04	0.96
1220	0.06	0.06	0.0	219,218,0	0.10	9.06e-04	8.57e-03	219,228,230	0.24	219	0.87	0.06	0.94
	9.95e-03	9.47e-03	0.0	231,231,0	0.10	4.19e-03	4.19e-03	219,227,227			1.00	0.04	0.96
1221	0.05	0.06	0.0	219,218,0	0.10	2.84e-03	9.21e-03	219,228,230	0.24	219	0.87	0.06	0.94
	9.05e-03	0.01	0.0	225,228,0	0.10	3.20e-03	3.20e-03	219,227,227			1.00	0.04	0.96
1222	0.03	0.05	0.0	224,218,0	0.11	8.72e-04	7.50e-03	219,228,230	0.26	219	0.87	0.06	0.94
	0.02	0.02	0.0	227,227,0	0.11	6.25e-03	6.25e-03	219,227,227			1.00	0.04	0.96
1223	0.03	0.04	0.0	224,218,0	0.11	2.61e-03	8.19e-03	219,226,230	0.26	219	0.87	0.06	0.94
	0.02	0.02	0.0	231,230,0	0.11	4.56e-03	4.56e-03	219,231,231			1.00	0.04	0.96
1224	9.52e-03	0.04	0.0	224,100,0	0.12	9.62e-04	5.85e-03	218,236,230	0.27	218	0.87	0.06	0.94
	0.04	0.03	0.0	227,227,0	0.12	8.52e-03	8.52e-03	218,227,227			1.00	0.04	0.96
1225	8.40e-03	0.04	0.0	224,100,0	0.12	2.52e-03	6.90e-03	219,226,230	0.26	219	0.87	0.06	0.94
	0.03	0.03	0.0	231,229,0	0.12	7.41e-03	7.41e-03	219,44,44			1.00	0.04	0.96
1226	0.0	0.05	0.0	0,100,0	0.13	1.50e-03	6.18e-03	218,236,100	0.28	218	0.0	0.0	0.0
	0.04	0.03	0.0	227,227,0	0.13	0.01	0.01	218,225,225			1.00	0.04	0.96
1227	0.0	0.04	0.0	0,100,0	0.13	1.68e-03	6.04e-03	218,228,230	0.27	218	0.0	0.0	0.0
	0.03	0.03	0.0	231,229,0	0.13	0.01	0.01	218,225,225			1.00	0.04	0.96
1228	0.0	0.05	0.0	0,100,0	0.14	1.93e-03	7.34e-03	218,236,230	0.28	218	0.0	0.0	0.0
	0.03	0.03	0.0	227,229,0	0.14	0.01	0.01	218,225,225			1.00	0.04	0.96
1229	3.53e-03	0.04	0.0	227,100,0	0.13	1.49e-03	7.43e-03	218,226,226	0.28	218	0.87	0.06	0.94
	0.02	0.03	0.0	231,44,0	0.13	0.01	0.01	218,225,225			1.00	0.04	0.96
1232	0.02	0.04	0.0	227,100,0	0.15	6.10e-03	0.01	218,226,226	0.30	218	0.87	0.06	0.94
	0.01	0.03	0.0	219,100,0	0.15	7.72e-03	7.72e-03	218,233,233			1.00	0.04	0.96
1233	0.05	0.05	0.0	219,218,0	0.06	6.56e-03	0.01	219,226,226	0.19	219	0.87	0.06	0.94
	0.01	0.01	0.0	231,230,0	0.06	5.64e-03	5.64e-03	219,228,228			1.00	0.04	0.96
1234	0.01	0.03	0.0	227,226,0	0.12	6.10e-03	0.01	218,226,226	0.27	218	0.87	0.06	0.94
	8.89e-03	0.02	0.0	219,218,0	0.12	2.63e-03	2.63e-03	218,231,231			1.00	0.04	0.96
1235	0.03	0.04	0.0	219,218,0	0.06	6.56e-03	0.01	219,226,226	0.19	219	0.87	0.06	0.94
	0.01	0.01	0.0	231,230,0	0.06	5.64e-03	5.64e-03	219,228,228			1.00	0.04	0.96
1236	0.05	0.05	0.0	219,218,0	0.09	6.56e-03	0.01	219,226,226	0.23	219	0.87	0.06	0.94
	0.01	0.01	0.0	231,228,0	0.09	6.25e-03	6.25e-03	219,227,227			1.00	0.04	0.96
1237	0.03	0.04	0.0	219,218,0	0.09	6.56e-03	0.01	219,226,226	0.22	219	0.87	0.06	0.94
	0.01	0.01	0.0	231,228,0	0.09	6.25e-03	6.25e-03	219,227,227			1.00	0.04	0.96
1238	0.02	0.04	0.0	224,218,0	0.11	5.85e-03	9.52e-03	219,226,230	0.25	219	0.87	0.06	0.94
	0.01	0.01	0.0	225,230,0	0.11	6.25e-03	6.25e-03	219,227,227			1.00	0.04	0.96
1239	0.02	0.04	0.0	219,218,0	0.10	5.85e-03	9.52e-03	219,226,230	0.25	219	0.87	0.06	0.94
	0.01	0.01	0.0	225,228,0	0.10	6.25e-03	6.25e-03	219,227,227			1.00	0.04	0.96
1240	6.69e-03	0.04	0.0	224,100,0	0.11	3.83e-03	6.90e-03	219,232,230	0.26	219	0.87	0.06	0.94
	0.02	0.02	0.0	231,44,0	0.11	7.41e-03	7.41e-03	219,44,44			1.00	0.04	0.96
1241	3.34e-03	0.03	0.0	224,100,0	0.11	3.83e-03	6.51e-03	219,232,226	0.26	219	0.87	0.06	0.94
	9.19e-03	8.54e-03	0.0	231,221,0	0.11	2.52e-03	2.52e-03	219,232,232			1.00	0.04	0.96
1242	0.0	0.04	0.0	0,100,0	0.12	4.00e-03	7.12e-03	218,226,226	0.26	218	0.0	0.0	0.0
	0.02	0.03	0.0	231,44,0	0.12	8.24e-03	8.24e-03	218,225,225			1.00	0.04	0.96
1243	0.0	0.03	0.0	0,100,0	0.11	4.00e-03	7.12e-03	219,226,226	0.26	219	0.0	0.0	0.0
	9.19e-03	0.01	0.0	231,221,0	0.11	1.74e-03	1.74e-03	219,213,213			1.00	0.04	0.96
1244	5.79e-03	0.04	0.0	227,100,0	0.12	5.63e-03	0.01	218,226,226	0.27	218	0.87	0.06	0.94
	0.02	0.03	0.0	231,44,0	0.12	8.24e-03	8.24e-03	218,225,225			1.00	0.04	0.96
1245	5.79e-03	0.03	0.0	227,226,0	0.11	5.63e-03	0.01	219,226,226	0.25	219	0.87	0.06	0.94

	7.80e-03	0.01	0.0 231,218,0	0.11	2.07e-03	2.07e-03219,236,236			1.00	0.04	0.96
1248	0.02	0.03	0.0 239,218,0	0.19	5.66e-03	7.27e-03218,239,230	0.33	218	0.87	0.06	0.94
	0.03	0.03	0.0 239,233,0	0.19	0.02	0.02218,233,233			1.00	0.04	0.96
1249	0.01	0.03	0.0 235,218,0	0.19	5.66e-03	7.27e-03218,239,230	0.33	218	0.87	0.06	0.94
	0.03	0.03	0.0 239,233,0	0.19	0.02	0.02218,233,233			1.00	0.04	0.96
1250	0.02	0.03	0.0 231,230,0	0.19	2.86e-03	6.64e-03218,227,230	0.33	218	0.87	0.06	0.94
	0.02	0.03	0.0 233,239,0	0.19	4.66e-03	4.66e-03 218,44,44			1.00	0.04	0.96
1251	0.02	0.03	0.0 231,230,0	0.18	1.70e-03	6.87e-03218,232,230	0.33	218	0.87	0.06	0.94
	0.02	0.03	0.0 233,239,0	0.18	3.75e-03	3.75e-03218,232,232			1.00	0.04	0.96
1252	0.02	7.45e-03	0.0 239,238,0	0.16	5.83e-03	5.83e-03218,233,233	0.31	218	0.87	0.06	0.94
	8.65e-03	0.02	0.0 233,239,0	0.16	4.51e-03	4.51e-03218,233,233			1.00	0.04	0.96
1253	0.01	1.96e-03	0.0 235,234,0	0.15	5.83e-03	5.83e-03218,233,233	0.30	218	0.87	0.06	0.94
	7.13e-03	0.01	0.0 239,219,0	0.15	2.27e-03	2.27e-03218,233,233			1.00	0.04	0.96
1254	0.02	0.01	0.0 231,231,0	0.16	3.87e-03	6.49e-03218,239,239	0.31	218	0.87	0.06	0.94
	0.01	0.02	0.0 230,239,0	0.16	4.51e-03	4.51e-03218,233,233			1.00	0.04	0.96
1255	0.02	0.02	0.0 231,231,0	0.16	1.80e-03	6.49e-03218,227,239	0.31	218	0.87	0.06	0.94
	0.01	0.02	0.0 230,239,0	0.16	3.43e-03	3.43e-03218,239,239			1.00	0.04	0.96
1256	0.03	0.07	0.0 218,219,0	0.19	5.83e-03	0.01219,233,231	0.34	219	0.87	0.06	0.94
	5.17e-03	0.01	0.0 218,231,0	0.19	2.06e-03	2.06e-03219,233,233			1.00	0.04	0.96
1257	0.02	0.06	0.0 218,219,0	0.19	5.83e-03	0.01219,233,231	0.34	219	0.87	0.06	0.94
	5.17e-03	0.01	0.0 218,219,0	0.19	1.51e-03	1.51e-03219,231,231			1.00	0.04	0.96
1258	0.03	0.07	0.0 218,219,0	0.19	4.08e-03	0.01219,233,231	0.33	219	0.87	0.06	0.94
	4.41e-03	0.02	0.0 230,231,0	0.19	2.71e-03	2.71e-03219,233,233			1.00	0.04	0.96
1259	0.03	0.07	0.0 218,219,0	0.17	1.99e-03	0.01219,239,231	0.32	219	0.87	0.06	0.94
	4.41e-03	0.02	0.0 230,100,0	0.17	2.71e-03	2.71e-03219,233,233			1.00	0.04	0.96
1260	0.15	0.32	0.0 218,219,0	0.19	5.50e-03	0.04219,235,219	0.34	219	0.87	0.06	0.94
	5.17e-03	0.01	0.0 218,219,0	0.19	9.09e-04	9.09e-04219,239,239			1.00	0.04	0.96
1262	0.12	0.28	0.0 218,219,0	0.19	4.08e-03	0.04219,233,219	0.33	219	0.87	0.06	0.94
	3.62e-03	0.01	0.0 218,219,0	0.19	1.35e-03	1.35e-03219,233,233			1.00	0.04	0.96
1263	0.09	0.24	0.0 218,219,0	0.17	1.99e-03	0.03219,239,219	0.32	219	0.87	0.06	0.94
	1.24e-03	0.01	0.0 218,100,0	0.17	1.47e-03	1.47e-03219,233,233			1.00	0.04	0.96
1264	0.15	0.32	0.0 218,219,0	0.14	5.50e-03	0.04219,235,219	0.29	219	0.87	0.06	0.94
	2.97e-03	0.01	0.0 218,219,0	0.14	2.51e-04	2.51e-04219,237,237			1.00	0.04	0.96
1265	0.12	0.28	0.0 218,219,0	0.10	3.68e-03	0.04219,235,219	0.25	219	0.87	0.06	0.94
	9.02e-05	8.08e-03	0.0 218,100,0	0.10	3.40e-04	3.40e-04219,229,229			1.00	0.04	0.96
1266	0.09	0.24	0.0 218,219,0	0.07	1.98e-03	0.03219,235,219	0.21	219	0.87	0.06	0.94
	9.02e-05	7.77e-03	0.0 218,100,0	0.07	4.64e-04	4.64e-04219,233,233			1.00	0.04	0.96
1267	0.02	0.03	0.0 227,230,0	0.18	1.52e-03	6.87e-03218,239,230	0.32	218	0.87	0.06	0.94
	0.01	0.02	0.0 239,239,0	0.18	2.51e-03	2.51e-03218,231,231			1.00	0.04	0.96
1268	0.02	0.03	0.0 227,226,0	0.17	3.37e-03	7.80e-03218,235,226	0.32	218	0.87	0.06	0.94
	0.01	0.03	0.0 219,100,0	0.17	2.15e-03	2.15e-03218,239,239			1.00	0.04	0.96
1269	0.02	0.02	0.0 227,231,0	0.16	2.05e-03	7.21e-03218,239,235	0.31	218	0.87	0.06	0.94
	7.51e-03	0.02	0.0 233,100,0	0.16	2.51e-03	2.51e-03218,231,231			1.00	0.04	0.96
1270	0.01	0.02	0.0 227,231,0	0.16	3.80e-03	7.92e-03218,239,239	0.31	218	0.87	0.06	0.94
	0.01	0.04	0.0 219,100,0	0.16	1.86e-03	1.86e-03218,231,231			1.00	0.04	0.96
1271	0.03	0.07	0.0 218,219,0	0.16	2.12e-03	0.01219,233,231	0.31	219	0.87	0.06	0.94
	1.91e-03	0.02	0.0 230,100,0	0.16	2.37e-03	2.37e-03219,233,233			1.00	0.04	0.96
1272	0.03	0.07	0.0 218,219,0	0.15	4.13e-03	0.01219,233,231	0.30	219	0.87	0.06	0.94
	0.02	0.05	0.0 219,218,0	0.15	1.69e-03	1.69e-03219,239,239			1.00	0.04	0.96
1273	0.06	0.21	0.0 218,219,0	0.16	2.12e-03	0.03219,233,219	0.31	219	0.87	0.06	0.94
	7.54e-04	0.02	0.0 218,100,0	0.16	1.47e-03	1.47e-03219,233,233			1.00	0.04	0.96
1274	0.03	0.18	0.0 218,219,0	0.15	4.30e-03	0.02219,233,231	0.30	219	0.87	0.06	0.94
	0.03	0.07	0.0 219,218,0	0.15	1.26e-03	1.26e-03219,233,233			1.00	0.04	0.96
1275	0.06	0.21	0.0 218,219,0	0.06	2.10e-03	0.03218,233,219	0.19	218	0.87	0.06	0.94
	7.54e-04	0.01	0.0 218,100,0	0.06	4.85e-04	4.85e-04218,233,233			1.00	0.04	0.96
1276	0.03	0.18	0.0 218,219,0	0.11	4.30e-03	0.02218,233,231	0.26	218	0.87	0.06	0.94
	0.03	0.07	0.0 219,218,0	0.11	4.85e-04	4.85e-04218,233,233			1.00	0.04	0.96
1277	0.02	0.03	0.0 227,226,0	0.15	6.10e-03	0.01218,226,226	0.30	218	0.87	0.06	0.94
	0.01	0.03	0.0 219,100,0	0.15	2.63e-03	2.63e-03218,231,231			1.00	0.04	0.96
1278	0.01	0.03	0.0 227,226,0	0.12	6.10e-03	0.01218,226,226	0.27	218	0.87	0.06	0.94
	8.89e-03	0.02	0.0 219,218,0	0.12	2.63e-03	2.63e-03218,231,231			1.00	0.04	0.96
1279	9.36e-03	0.02	0.0 227,107,0	0.15	5.77e-03	8.17e-03218,235,235	0.30	218	0.87	0.06	0.94
	0.01	0.04	0.0 219,100,0	0.15	1.04e-03	1.04e-03218,233,233			1.00	0.04	0.96
1280	1.18e-03	0.02	0.0 231,107,0	0.11	5.77e-03	8.17e-03219,235,235	0.26	219	0.87	0.06	0.94
	0.01	0.03	0.0 219,218,0	0.11	1.04e-03	1.04e-03219,233,233			1.00	0.04	0.96
1281	0.02	0.07	0.0 218,219,0	0.15	5.86e-03	0.01219,239,231	0.29	219	0.87	0.06	0.94
	0.03	0.05	0.0 219,218,0	0.15	1.04e-03	1.04e-03219,233,233			1.00	0.04	0.96
1282	0.01	0.06	0.0 218,219,0	0.11	5.86e-03	0.01219,239,231	0.26	219	0.87	0.06	0.94
	0.03	0.05	0.0 219,218,0	0.11	1.04e-03	1.04e-03219,233,233			1.00	0.04	0.96
1283	0.02	0.17	0.0 218,100,0	0.15	6.51e-03	0.02219,233,231	0.29	219	0.87	0.06	0.94
	0.04	0.07	0.0 219,218,0	0.15	8.23e-04	8.23e-04219,239,239			1.00	0.04	0.96
1284	0.01	0.16	0.0 218,100,0	0.10	6.51e-03	0.02219,233,231	0.24	219	0.87	0.06	0.94
	0.04	0.07	0.0 219,218,0	0.10	8.04e-04	8.04e-04219,228,228			1.00	0.04	0.96
1285	3.97e-03	0.17	0.0 218,100,0	0.11	6.51e-03	0.02218,233,231	0.26	218	0.87	0.06	0.94
	0.04	0.07	0.0 219,218,0	0.11	8.04e-04	8.04e-04218,228,228			1.00	0.04	0.96
1286	0.0	0.16	0.0 0,100,0	0.02	6.51e-03	0.02218,233,231	0.10	218	0.0	0.0	0.0
	0.04	0.07	0.0 219,218,0	0.02	8.04e-04	8.04e-04218,228,228			1.00	0.04	0.96

2767	0.13	0.11	0.0	219,218,0	0.03	3.49e-03	0.01218,232,218	0.12	218	0.87	0.06	0.94
	2.29e-03	1.59e-03	0.0	47,238,0	0.03	1.89e-03	1.89e-03218,227,227			1.00	0.04	0.96
2768	0.13	0.11	0.0	219,218,0	0.03	3.49e-03	0.01218,232,218	0.12	218	0.87	0.06	0.94
	2.29e-03	1.59e-03	0.0	47,238,0	0.03	1.89e-03	1.89e-03218,227,227			1.00	0.04	0.96
2770	0.10	0.09	0.0	219,218,0	0.02	2.83e-03	0.01218,225,230	0.11	218	0.87	0.06	0.94
	1.53e-03	1.21e-03	0.0	231,230,0	0.02	9.76e-04	9.76e-04218,225,225			1.00	0.04	0.96
2771	0.08	0.07	0.0	219,218,0	0.02	9.70e-04	8.38e-03218,226,218	0.11	218	0.87	0.06	0.94
	1.09e-03	9.34e-04	0.0	230,231,0	0.02	7.50e-04	7.50e-04218,225,225			1.00	0.04	0.96
2773	0.06	0.05	0.0	219,218,0	0.02	2.30e-03	8.25e-03219,226,230	0.12	219	0.87	0.06	0.94
	1.52e-03	1.49e-03	0.0	218,224,0	0.02	7.36e-04	7.36e-04219,228,228			1.00	0.04	0.96
2774	0.03	0.03	0.0	231,218,0	0.03	3.72e-03	7.91e-03219,226,226	0.13	219	0.87	0.06	0.94
	2.87e-03	2.40e-03	0.0	226,227,0	0.03	1.52e-03	1.52e-03219,228,228			1.00	0.04	0.96
2776	0.03	0.03	0.0	218,219,0	0.03	4.08e-03	7.29e-03219,227,226	0.13	219	0.87	0.06	0.94
	4.90e-03	3.82e-03	0.0	227,226,0	0.03	2.14e-03	2.14e-03219,228,228			1.00	0.04	0.96
2777	0.03	0.03	0.0	218,218,0	0.03	5.13e-03	8.28e-03219,226,230	0.14	219	0.87	0.06	0.94
	4.90e-03	3.82e-03	0.0	227,226,0	0.03	3.32e-03	3.32e-03219,228,228			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.15	0.32	0.0	0.19	0.02	0.04	0.34

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
36	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.38	3.7	208	0.43	4.2	204	0.19	-1366.3	3.351e+04	219

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
489	0.02	0.05	0.0	218,219,0	5.39e-03	0.03	0.04240,222,218		0.06	240	0.87	0.06	0.94
	0.03	0.02	0.0	236,233,0	5.41e-03	0.02	0.02240,237,237				1.00	0.04	0.96
490	0.02	0.05	0.0	218,219,0	5.39e-03	0.03	0.04240,222,218		0.06	240	0.87	0.06	0.94
	0.03	0.02	0.0	236,233,0	5.41e-03	0.02	0.02240,237,237				1.00	0.04	0.96
1192	0.02	0.05	0.0	218,219,0	5.91e-03	0.03	0.04236,222,218		0.06	236	0.87	0.06	0.94
	0.03	0.02	0.0	236,233,0	5.91e-03	0.02	0.02236,237,237				1.00	0.04	0.96
1194	0.0	0.04	0.0	0,100,0	5.99e-03	9.24e-03	0.02236,221,221		0.06	236	0.0	0.0	0.0
	2.29e-03	3.69e-03	0.0	238,239,0	5.99e-03	3.99e-03	3.99e-03236,224,224				1.00	0.04	0.96
1196	0.0	0.04	0.0	0,100,0	6.03e-03	4.17e-03	7.21e-03236,221,224		0.06	236	0.0	0.0	0.0
	1.79e-03	1.76e-03	0.0	222,223,0	6.03e-03	1.79e-03	1.79e-03236,218,218				1.00	0.04	0.96
1216	7.15e-03	0.04	0.0	226,100,0	6.15e-03	2.68e-03	5.94e-03236,221,100		0.06	236	0.87	0.06	0.94
	1.79e-03	1.76e-03	0.0	222,223,0	6.15e-03	1.79e-03	1.79e-03236,218,218				1.00	0.04	0.96
1218	0.02	0.04	0.0	228,233,0	6.52e-03	1.97e-03	5.89e-03236,221,100		0.06	236	0.87	0.06	0.94
	1.85e-03	2.33e-03	0.0	224,100,0	6.52e-03	2.60e-03	2.60e-03236,100,100				1.00	0.04	0.96
1232	0.03	0.04	0.0	236,233,0	7.24e-03	4.01e-03	7.01e-03236,218,100		0.07	236	0.87	0.06	0.94
	1.85e-03	4.01e-03	0.0	224,100,0	7.24e-03	2.60e-03	2.60e-03236,100,100				1.00	0.04	0.96
1234	0.03	0.04	0.0	236,233,0	7.24e-03	4.01e-03	7.01e-03236,218,100		0.07	236	0.87	0.06	0.94
	0.0	4.01e-03	0.0	0,100,0	7.24e-03	1.51e-03	1.51e-03236,228,228				0.0	0.0	0.0
1287	0.02	0.05	0.0	218,219,0	5.91e-03	0.03	0.04236,222,218		0.06	236	0.87	0.06	0.94
	0.03	0.02	0.0	236,233,0	5.91e-03	0.02	0.02236,237,237				1.00	0.04	0.96
1288	0.0	0.04	0.0	0,100,0	5.99e-03	9.24e-03	0.02236,221,221		0.06	236	0.0	0.0	0.0
	2.29e-03	3.69e-03	0.0	238,239,0	5.99e-03	3.99e-03	3.99e-03236,224,224				1.00	0.04	0.96
1289	0.0	0.04	0.0	0,100,0	6.03e-03	4.17e-03	7.21e-03236,221,224		0.06	236	0.0	0.0	0.0
	1.79e-03	1.76e-03	0.0	222,223,0	6.03e-03	1.79e-03	1.79e-03236,218,218				1.00	0.04	0.96
1290	7.15e-03	0.04	0.0	226,100,0	6.15e-03	2.68e-03	5.94e-03236,221,100		0.06	236	0.87	0.06	0.94
	1.79e-03	1.76e-03	0.0	222,223,0	6.15e-03	1.79e-03	1.79e-03236,218,218				1.00	0.04	0.96
1291	0.02	0.04	0.0	228,233,0	6.52e-03	1.97e-03	5.89e-03236,221,100		0.06	236	0.87	0.06	0.94
	1.85e-03	2.33e-03	0.0	224,100,0	6.52e-03	2.60e-03	2.60e-03236,100,100				1.00	0.04	0.96
1292	0.03	0.04	0.0	236,233,0	7.24e-03	4.01e-03	7.01e-03236,218,100		0.07	236	0.87	0.06	0.94
	1.85e-03	4.01e-03	0.0	224,100,0	7.24e-03	2.60e-03	2.60e-03236,100,100				1.00	0.04	0.96
1293	0.03	0.04	0.0	236,233,0	7.24e-03	4.01e-03	7.01e-03236,218,100		0.07	236	0.87	0.06	0.94
	0.0	4.01e-03	0.0	0,100,0	7.24e-03	1.51e-03	1.51e-03236,228,228				0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.03	0.05	0.0	7.24e-03	0.03	0.04	0.07

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
37	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	NV

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
NV	1.11	146.0	186	0.67	-88.2	187	0.70	-4375.3	2.481e+06	240

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
458	0.03	0.09	0.0	218,219,0	0.14	3.57e-03	0.01	218,240,224	0.29	218	0.87	0.06	0.94
	0.01	9.70e-03	0.0	217,220,0	0.14	5.92e-03	5.92e-03	218,219,219			1.00	0.04	0.96
532	0.10	0.11	0.0	236,233,0	0.11	0.03	0.04	218,225,225	0.25	218	0.87	0.06	0.94
	0.03	0.02	0.0	225,225,0	0.11	0.03	0.03	218,225,225			1.00	0.04	0.96
546	0.10	0.11	0.0	236,233,0	0.11	0.02	0.04	218,225,225	0.25	218	0.87	0.06	0.94
	0.03	0.02	0.0	225,225,0	0.11	0.03	0.03	218,225,225			1.00	0.04	0.96
628	0.09	0.11	0.0	228,233,0	0.11	0.02	0.04	218,225,225	0.25	218	0.87	0.06	0.94
	0.03	0.02	0.0	225,225,0	0.11	0.03	0.03	218,225,225			1.00	0.04	0.96
630	0.06	0.07	0.0	236,233,0	0.10	0.02	0.03	218,225,225	0.25	218	0.87	0.06	0.94
	0.01	0.01	0.0	228,225,0	0.10	0.01	0.01	218,225,225			1.00	0.04	0.96
648	0.02	0.04	0.0	240,237,0	0.09	0.01	0.02	219,225,225	0.23	219	0.87	0.06	0.94
	7.71e-03	7.75e-03	0.0	236,233,0	0.09	3.57e-03	3.57e-03	219,236,236			1.00	0.04	0.96
652	0.09	0.10	0.0	240,237,0	0.13	0.03	0.04	218,225,225	0.28	218	0.87	0.06	0.94
	0.03	0.02	0.0	225,228,0	0.13	8.00e-03	8.00e-03	218,225,225			1.00	0.04	0.96
654	0.03	0.07	0.0	240,237,0	0.14	8.23e-03	0.02	219,233,233	0.29	219	0.87	0.06	0.94
	0.03	0.02	0.0	225,228,0	0.14	3.54e-03	3.54e-03	219,225,225			1.00	0.04	0.96
656	8.77e-03	0.05	0.0	240,100,0	0.15	3.83e-03	8.40e-03	219,44,44	0.30	219	0.87	0.06	0.94
	0.02	0.02	0.0	225,228,0	0.15	4.80e-03	4.80e-03	219,42,42			1.00	0.04	0.96
658	0.0	0.06	0.0	0,100,0	0.16	3.83e-03	9.00e-03	219,44,44	0.31	219	0.0	0.0	0.0
	0.04	0.03	0.0	44,44,0	0.16	0.02	0.02	219,44,44			1.00	0.04	0.96
660	0.0	0.06	0.0	0,100,0	0.16	3.70e-03	9.00e-03	219,44,44	0.31	219	0.0	0.0	0.0
	0.04	0.03	0.0	44,44,0	0.16	0.02	0.02	219,44,44			1.00	0.04	0.96
662	0.0	0.08	0.0	0,100,0	0.15	3.19e-03	0.01	218,44,28	0.30	218	0.0	0.0	0.0
	0.03	0.03	0.0	45,45,0	0.15	0.01	0.01	218,45,45			1.00	0.04	0.96
664	0.03	0.05	0.0	225,228,0	0.07	9.18e-03	0.02	219,225,228	0.20	219	0.87	0.06	0.94
	0.01	0.01	0.0	236,225,0	0.07	4.21e-03	4.21e-03	219,236,236			1.00	0.04	0.96
666	0.03	0.09	0.0	218,219,0	0.09	3.57e-03	0.01	221,240,224	0.23	221	0.87	0.06	0.94
	5.82e-03	5.15e-03	0.0	217,220,0	0.09	2.80e-03	2.80e-03	221,231,231			1.00	0.04	0.96
1214	0.03	0.05	0.0	225,228,0	0.07	8.16e-03	0.02	231,228,228	0.20	231	0.87	0.06	0.94
	0.01	0.01	0.0	236,225,0	0.07	4.21e-03	4.21e-03	231,236,236			1.00	0.04	0.96
1294	0.03	0.09	0.0	218,219,0	0.15	3.57e-03	0.01	218,240,224	0.30	218	0.87	0.06	0.94
	0.01	9.70e-03	0.0	217,220,0	0.15	6.72e-03	6.72e-03	218,18,18			1.00	0.04	0.96
1295	0.10	0.11	0.0	236,233,0	0.14	0.03	0.04	218,225,225	0.28	218	0.87	0.06	0.94
	0.06	0.04	0.0	225,225,0	0.14	0.03	0.03	218,225,225			1.00	0.04	0.96
1296	5.74e-04	0.08	0.0	218,100,0	0.15	2.33e-03	0.01	218,235,100	0.30	218	0.87	0.06	0.94
	9.91e-03	8.81e-03	0.0	224,221,0	0.15	6.72e-03	6.72e-03	218,18,18			1.00	0.04	0.96
1297	0.10	0.11	0.0	236,233,0	0.14	0.02	0.04	218,225,225	0.28	218	0.87	0.06	0.94
	0.06	0.05	0.0	228,225,0	0.14	0.03	0.03	218,225,225			1.00	0.04	0.96
1298	0.0	0.09	0.0	0,100,0	0.16	2.86e-03	0.01	218,219,237	0.30	218	0.0	0.0	0.0
	0.02	0.02	0.0	221,224,0	0.16	5.07e-03	5.07e-03	218,18,18			1.00	0.04	0.96
1299	0.09	0.11	0.0	228,233,0	0.13	0.02	0.04	218,225,225	0.28	218	0.87	0.06	0.94
	0.06	0.05	0.0	228,225,0	0.13	0.03	0.03	218,225,225			1.00	0.04	0.96
1300	0.04	0.07	0.0	240,237,0	0.15	8.23e-03	0.02	218,233,233	0.30	218	0.87	0.06	0.94
	0.06	0.04	0.0	225,225,0	0.15	7.21e-03	7.21e-03	218,225,225			1.00	0.04	0.96
1301	0.04	0.07	0.0	240,237,0	0.15	2.87e-03	0.01	218,225,233	0.30	218	0.87	0.06	0.94
	0.06	0.05	0.0	228,225,0	0.15	7.21e-03	7.21e-03	218,225,225			1.00	0.04	0.96
1302	0.04	0.07	0.0	236,233,0	0.15	4.49e-03	0.01	218,225,233	0.29	218	0.87	0.06	0.94
	0.06	0.05	0.0	228,225,0	0.15	6.89e-03	6.89e-03	218,228,228			1.00	0.04	0.96
1303	8.77e-03	0.05	0.0	240,100,0	0.16	3.83e-03	8.40e-03	219,44,44	0.30	219	0.87	0.06	0.94
	0.04	0.03	0.0	225,225,0	0.16	7.57e-03	7.57e-03	219,228,228			1.00	0.04	0.96
1304	6.68e-03	0.05	0.0	240,100,0	0.16	1.36e-03	6.50e-03	219,231,100	0.30	219	0.87	0.06	0.94
	0.05	0.04	0.0	228,225,0	0.16	9.24e-03	9.24e-03	219,228,228			1.00	0.04	0.96
1305	5.58e-03	0.05	0.0	240,100,0	0.16	9.93e-04	6.70e-03	219,218,100	0.30	219	0.87	0.06	0.94
	0.05	0.04	0.0	228,225,0	0.16	9.24e-03	9.24e-03	219,228,228			1.00	0.04	0.96
1306	0.0	0.06	0.0	0,100,0	0.16	3.83e-03	9.00e-03	219,44,44	0.31	219	0.0	0.0	0.0
	0.04	0.03	0.0	44,44,0	0.16	0.02	0.02	219,44,44			1.00	0.04	0.96
1307	0.0	0.06	0.0	0,100,0	0.16	1.73e-03	7.42e-03	219,225,100	0.31	219	0.0	0.0	0.0
	0.03	0.02	0.0	44,225,0	0.16	0.01	0.01	219,228,228			1.00	0.04	0.96
1308	0.0	0.06	0.0	0,100,0	0.16	1.29e-03	8.22e-03	219,225,100	0.31	219	0.0	0.0	0.0
	0.03	0.03	0.0	228,225,0	0.16	0.01	0.01	219,228,228			1.00	0.04	0.96
1309	0.0	0.06	0.0	0,100,0	0.16	3.70e-03	9.00e-03	219,44,44	0.31	219	0.0	0.0	0.0
	0.04	0.03	0.0	44,44,0	0.16	0.02	0.02	219,44,44			1.00	0.04	0.96
1310	0.0	0.06	0.0	0,100,0	0.16	1.87e-03	7.58e-03	219,231,100	0.31	219	0.0	0.0	0.0
	0.03	0.02	0.0	44,44,0	0.16	0.01	0.01	219,228,228			1.00	0.04	0.96
1311	0.0	0.06	0.0	0,100,0	0.16	1.88e-03	8.37e-03	219,233,100	0.31	219	0.0	0.0	0.0
	0.02	0.02	0.0	220,44,0	0.16	0.01	0.01	219,228,228			1.00	0.04	0.96
1312	0.0	0.08	0.0	0,100,0	0.15	3.19e-03	0.01	218,44,28	0.30	218	0.0	0.0	0.0
	0.03	0.03	0.0	45,45,0	0.15	0.01	0.01	218,45,45			1.00	0.04	0.96

1313	0.0	0.08	0.0	0,100,0	0.15	2.32e-03	9.58e-03218,231,100	0.30	218	0.0	0.0	0.0
	0.02	0.02	0.0	45,45,0	0.15	6.74e-03	6.74e-03 218,45,45			1.00	0.04	0.96
1314	0.0	0.08	0.0	0,100,0	0.16	2.32e-03	9.67e-03218,231,100	0.30	218	0.0	0.0	0.0
	0.02	0.02	0.0	224,218,0	0.16	5.07e-03	5.07e-03 218,18,18			1.00	0.04	0.96
1318	0.03	0.09	0.0	218,219,0	0.09	3.57e-03	0.01221,240,224	0.23	221	0.87	0.06	0.94
	5.82e-03	5.15e-03	0.0	217,220,0	0.09	3.00e-03	3.00e-03221,231,231			1.00	0.04	0.96
1319	5.74e-04	0.08	0.0	218,100,0	0.08	2.33e-03	0.01221,235,100	0.22	221	0.87	0.06	0.94
	8.45e-03	6.97e-03	0.0	219,218,0	0.08	3.00e-03	3.00e-03221,231,231			1.00	0.04	0.96
1320	0.0	0.09	0.0	0,100,0	0.09	2.86e-03	0.01221,219,237	0.23	221	0.0	0.0	0.0
	0.02	0.02	0.0	221,224,0	0.09	3.67e-03	3.67e-03221,218,218			1.00	0.04	0.96
1321	0.02	0.10	0.0	240,237,0	0.19	3.45e-03	0.01221,219,237	0.33	221	0.87	0.06	0.94
	0.12	0.10	0.0	224,221,0	0.19	5.75e-03	5.75e-03221,221,221			1.00	0.04	0.96
1322	0.06	0.07	0.0	236,233,0	0.13	0.02	0.03219,225,225	0.27	219	0.87	0.06	0.94
	0.04	0.03	0.0	228,225,0	0.13	0.01	0.01219,225,225			1.00	0.04	0.96
1323	0.02	0.10	0.0	240,237,0	0.19	3.45e-03	0.01221,219,237	0.33	221	0.87	0.06	0.94
	0.18	0.15	0.0	224,221,0	0.19	0.01	0.01221,221,221			1.00	0.04	0.96
1324	0.02	0.05	0.0	240,237,0	0.11	0.01	0.02219,225,225	0.25	219	0.87	0.06	0.94
	0.02	0.02	0.0	232,229,0	0.11	5.80e-03	5.80e-03219,225,225			1.00	0.04	0.96
1325	0.03	0.06	0.0	236,237,0	0.14	4.54e-03	0.01219,225,233	0.29	219	0.87	0.06	0.94
	0.04	0.03	0.0	228,225,0	0.14	5.50e-03	5.50e-03219,225,225			1.00	0.04	0.96
1326	0.02	0.05	0.0	240,237,0	0.12	4.54e-03	0.01219,225,233	0.27	219	0.87	0.06	0.94
	0.03	0.03	0.0	224,221,0	0.12	5.80e-03	5.80e-03219,225,225			1.00	0.04	0.96
1327	3.42e-03	0.05	0.0	240,100,0	0.15	9.93e-04	6.70e-03219,218,100	0.30	219	0.87	0.06	0.94
	0.04	0.04	0.0	224,221,0	0.15	7.67e-03	7.67e-03219,228,228			1.00	0.04	0.96
1328	0.0	0.05	0.0	0,100,0	0.13	1.38e-03	7.10e-03219,44,100	0.28	219	0.0	0.0	0.0
	0.05	0.04	0.0	224,221,0	0.13	4.71e-03	4.71e-03219,230,230			1.00	0.04	0.96
1329	0.0	0.06	0.0	0,100,0	0.16	1.26e-03	8.50e-03219,100,100	0.31	219	0.0	0.0	0.0
	0.05	0.05	0.0	224,221,0	0.16	0.01	0.01219,228,228			1.00	0.04	0.96
1330	0.0	0.06	0.0	0,100,0	0.15	1.38e-03	8.53e-03219,44,100	0.29	219	0.0	0.0	0.0
	0.07	0.07	0.0	224,221,0	0.15	9.47e-03	9.47e-03219,230,230			1.00	0.04	0.96
1331	0.0	0.06	0.0	0,100,0	0.16	1.88e-03	8.50e-03219,233,100	0.31	219	0.0	0.0	0.0
	0.08	0.06	0.0	224,221,0	0.16	0.01	0.01219,228,228			1.00	0.04	0.96
1332	0.0	0.06	0.0	0,100,0	0.15	1.06e-03	8.53e-03219,218,100	0.29	219	0.0	0.0	0.0
	0.10	0.08	0.0	224,221,0	0.15	0.01	0.01219,224,224			1.00	0.04	0.96
1333	0.0	0.08	0.0	0,100,0	0.17	2.22e-03	9.83e-03218,231,100	0.31	218	0.0	0.0	0.0
	0.10	0.09	0.0	224,221,0	0.17	6.48e-03	6.48e-03218,224,224			1.00	0.04	0.96
1334	0.0	0.08	0.0	0,100,0	0.17	1.59e-03	9.83e-03218,237,100	0.31	218	0.0	0.0	0.0
	0.14	0.12	0.0	224,221,0	0.17	0.01	0.01218,221,221			1.00	0.04	0.96
1337	0.02	0.10	0.0	240,237,0	0.19	3.45e-03	0.01221,219,237	0.33	221	0.87	0.06	0.94
	0.12	0.10	0.0	224,221,0	0.19	4.90e-03	4.90e-03221,240,240			1.00	0.04	0.96
1338	0.02	0.10	0.0	240,237,0	0.19	3.45e-03	0.01221,219,237	0.33	221	0.87	0.06	0.94
	0.18	0.15	0.0	224,221,0	0.19	6.74e-03	6.74e-03221,221,221			1.00	0.04	0.96
1339	0.02	0.09	0.0	240,237,0	0.06	7.02e-03	0.02218,227,229	0.19	218	0.87	0.06	0.94
	0.18	0.15	0.0	224,221,0	0.06	0.01	0.01218,221,221			1.00	0.04	0.96
1340	0.03	0.05	0.0	225,237,0	0.08	9.18e-03	0.02219,225,228	0.22	219	0.87	0.06	0.94
	0.02	0.02	0.0	224,221,0	0.08	5.80e-03	5.80e-03219,225,225			1.00	0.04	0.96
1341	0.02	0.08	0.0	240,237,0	0.03	7.02e-03	0.02218,227,229	0.13	218	0.87	0.06	0.94
	0.04	0.04	0.0	224,221,0	0.03	2.81e-03	2.81e-03218,221,221			1.00	0.04	0.96
1342	9.09e-03	0.04	0.0	240,233,0	0.07	5.64e-03	0.01219,228,225	0.20	219	0.87	0.06	0.94
	8.65e-03	8.23e-03	0.0	223,222,0	0.07	4.02e-03	4.02e-03219,225,225			1.00	0.04	0.96
1343	0.02	0.05	0.0	232,237,0	0.09	2.02e-03	6.56e-03219,228,229	0.23	219	0.87	0.06	0.94
	0.03	0.03	0.0	224,221,0	0.09	5.80e-03	5.80e-03219,225,225			1.00	0.04	0.96
1344	9.09e-03	0.04	0.0	240,100,0	0.07	2.02e-03	6.07e-03219,228,225	0.21	219	0.87	0.06	0.94
	0.01	0.01	0.0	224,221,0	0.07	3.36e-03	3.36e-03219,236,236			1.00	0.04	0.96
1345	0.0	0.05	0.0	0,100,0	0.10	2.09e-03	7.37e-03219,44,100	0.24	219	0.0	0.0	0.0
	0.05	0.04	0.0	224,221,0	0.10	3.99e-03	3.99e-03219,233,233			1.00	0.04	0.96
1346	0.0	0.05	0.0	0,100,0	0.08	2.09e-03	7.37e-03219,44,100	0.21	219	0.0	0.0	0.0
	0.02	0.02	0.0	224,221,0	0.08	1.11e-03	1.11e-03219,218,218			1.00	0.04	0.96
1347	0.0	0.06	0.0	0,100,0	0.10	3.60e-03	0.01219,100,100	0.24	219	0.0	0.0	0.0
	0.07	0.07	0.0	224,221,0	0.10	7.81e-03	7.81e-03219,230,230			1.00	0.04	0.96
1348	0.0	0.06	0.0	0,100,0	0.08	3.60e-03	0.01219,100,100	0.21	219	0.0	0.0	0.0
	0.03	0.03	0.0	224,221,0	0.08	3.11e-03	3.11e-03219,230,230			1.00	0.04	0.96
1349	0.0	0.06	0.0	0,100,0	0.10	4.01e-03	0.01219,225,100	0.24	219	0.0	0.0	0.0
	0.10	0.08	0.0	224,221,0	0.10	0.01	0.01219,224,224			1.00	0.04	0.96
1350	0.0	0.06	0.0	0,100,0	0.07	4.01e-03	0.01219,225,100	0.21	219	0.0	0.0	0.0
	0.04	0.03	0.0	224,221,0	0.07	3.11e-03	3.11e-03219,230,230			1.00	0.04	0.96
1351	0.0	0.07	0.0	0,100,0	0.07	4.92e-03	0.01218,227,227	0.20	218	0.0	0.0	0.0
	0.14	0.12	0.0	224,221,0	0.07	0.01	0.01218,221,221			1.00	0.04	0.96
1352	0.0	0.07	0.0	0,100,0	0.04	4.92e-03	0.01219,227,227	0.16	219	0.0	0.0	0.0
	0.04	0.04	0.0	224,221,0	0.04	3.00e-03	3.00e-03219,224,224			1.00	0.04	0.96
1355	0.02	0.09	0.0	240,237,0	0.03	7.02e-03	0.02221,227,229	0.14	221	0.87	0.06	0.94
	0.18	0.15	0.0	224,221,0	0.03	6.74e-03	6.74e-03221,221,221			1.00	0.04	0.96
1356	0.02	0.08	0.0	240,237,0	0.03	7.02e-03	0.02221,227,229	0.12	221	0.87	0.06	0.94
	0.04	0.04	0.0	224,221,0	0.03	1.77e-03	1.77e-03221,218,218			1.00	0.04	0.96
1380	0.09	0.10	0.0	240,237,0	0.10	0.03	0.04218,225,225	0.25	218	0.87	0.06	0.94
	0.02	0.01	0.0	225,228,0	0.10	8.00e-03	8.00e-03218,225,225			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.18	0.15	0.0	0.19	0.03	0.04	0.33

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
38	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.83	13.2	196	0.50	8.1	196	0.63	1.045e+04	-1.630e+05	225

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
507	0.17	0.17	0.0	225,228,0	0.08	0.03	0.03	228,45,44	0.21	228	0.85	0.06	0.94
	7.10e-03	8.64e-03	0.0	45,44,0	0.08	0.02	0.02	228,44,44			1.00	0.04	0.96
508	0.17	0.17	0.0	225,228,0	0.08	0.03	0.03	228,45,44	0.21	228	0.85	0.06	0.94
	7.10e-03	8.64e-03	0.0	45,44,0	0.08	0.02	0.02	228,44,44			1.00	0.04	0.96
509	0.15	0.15	0.0	225,228,0	0.06	0.02	0.03	228,45,44	0.19	228	0.85	0.06	0.94
	4.11e-03	3.94e-03	0.0	225,228,0	0.06	6.64e-03	6.64e-03	228,44,44			1.00	0.04	0.96
510	0.12	0.13	0.0	225,228,0	0.05	6.41e-03	0.03	228,45,44	0.17	228	0.85	0.06	0.94
	3.60e-03	3.47e-03	0.0	45,44,0	0.05	6.95e-03	6.95e-03	228,44,44			1.00	0.04	0.96
517	0.17	0.17	0.0	225,228,0	0.08	0.03	0.03	228,45,44	0.21	228	0.85	0.06	0.94
	7.10e-03	8.64e-03	0.0	45,44,0	0.08	0.02	0.02	228,44,44			1.00	0.04	0.96
518	0.17	0.17	0.0	225,228,0	0.08	0.03	0.03	228,45,44	0.21	228	0.85	0.06	0.94
	7.10e-03	8.64e-03	0.0	45,44,0	0.08	0.02	0.02	228,44,44			1.00	0.04	0.96
527	0.10	0.11	0.0	225,228,0	0.04	9.94e-03	0.03	228,44,44	0.15	228	0.85	0.06	0.94
	3.64e-03	3.15e-03	0.0	45,44,0	0.04	6.95e-03	6.95e-03	228,44,44			1.00	0.04	0.96
528	0.08	0.10	0.0	225,236,0	0.04	0.02	0.03	228,45,44	0.14	228	0.85	0.06	0.94
	3.64e-03	3.15e-03	0.0	45,44,0	0.04	6.35e-03	6.35e-03	228,44,44			1.00	0.04	0.96
541	0.07	0.09	0.0	233,236,0	0.03	0.03	0.03	228,45,44	0.14	228	0.85	0.06	0.94
	0.02	0.01	0.0	45,47,0	0.03	6.96e-03	6.96e-03	228,44,44			1.00	0.04	0.96
542	0.05	0.07	0.0	233,236,0	0.03	0.03	0.03	228,45,44	0.13	228	0.85	0.06	0.94
	0.02	0.01	0.0	45,47,0	0.03	6.96e-03	6.96e-03	228,44,44			1.00	0.04	0.96
545	0.15	0.15	0.0	225,228,0	0.06	0.02	0.03	228,45,44	0.19	228	0.85	0.06	0.94
	4.11e-03	3.94e-03	0.0	225,228,0	0.06	6.64e-03	6.64e-03	228,44,44			1.00	0.04	0.96
627	0.12	0.13	0.0	225,228,0	0.05	6.41e-03	0.03	228,45,44	0.17	228	0.85	0.06	0.94
	3.60e-03	3.47e-03	0.0	45,44,0	0.05	6.95e-03	6.95e-03	228,44,44			1.00	0.04	0.96
629	0.10	0.11	0.0	225,228,0	0.04	9.94e-03	0.03	228,44,44	0.15	228	0.85	0.06	0.94
	3.64e-03	3.15e-03	0.0	45,44,0	0.04	6.95e-03	6.95e-03	228,44,44			1.00	0.04	0.96
647	0.08	0.10	0.0	225,236,0	0.04	0.02	0.03	228,45,44	0.14	228	0.85	0.06	0.94
	3.64e-03	3.15e-03	0.0	45,44,0	0.04	6.35e-03	6.35e-03	228,44,44			1.00	0.04	0.96
663	0.07	0.09	0.0	233,236,0	0.03	0.03	0.03	228,45,44	0.14	228	0.85	0.06	0.94
	0.02	0.01	0.0	45,47,0	0.03	6.96e-03	6.96e-03	228,44,44			1.00	0.04	0.96
1213	0.05	0.07	0.0	233,236,0	0.03	0.03	0.03	228,45,44	0.13	228	0.85	0.06	0.94
	0.02	0.01	0.0	45,47,0	0.03	6.96e-03	6.96e-03	228,44,44			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.17	0.17	0.0	0.08	0.03	0.03	0.21

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
39	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.75	-9.7	195	0.63	-8.2	203	0.25	-977.4	-5.854e+04	230

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
458	0.05	0.09	0.0	218,219,0	0.05	0.04	0.06	227,217,217	0.17	227	0.87	0.06	0.94
	7.86e-03	0.01	0.0	221,224,0	0.05	0.01	0.01	227,224,224			1.00	0.04	0.96
472	0.05	0.10	0.0	218,100,0	0.05	0.04	0.06	227,217,217	0.17	227	0.87	0.06	0.94
	7.86e-03	0.01	0.0	221,224,0	0.05	0.01	0.01	227,224,224			1.00	0.04	0.96
474	0.0	0.10	0.0	0,100,0	6.16e-03	4.42e-03	0.02	227,218,219	0.06	227	0.0	0.0	0.0
	2.95e-03	9.97e-03	0.0	221,224,0	6.15e-03	2.34e-03	2.34e-03	227,224,224			1.00	0.04	0.96
1294	0.05	0.09	0.0	218,219,0	0.05	0.04	0.06	227,217,217	0.17	227	0.87	0.06	0.94
	7.86e-03	0.01	0.0	221,224,0	0.05	0.01	0.01	227,224,224			1.00	0.04	0.96
1296	6.43e-03	0.08	0.0	230,100,0	0.04	0.01	0.02	227,218,219	0.15	227	0.87	0.06	0.94

	0.01	8.49e-03	0.0	221,217,0	0.04	8.46e-03	8.46e-03	227,221,221			1.00	0.04	0.96
1298	0.0	0.08	0.0	0,100,0	0.03	0.01	0.02	227,221,221	0.14	227	0.0	0.0	0.0
	0.01	8.49e-03	0.0	221,217,0	0.03	0.01	0.01	227,221,221			1.00	0.04	0.96
1321	0.02	0.08	0.0	218,100,0	0.03	0.03	0.04	227,221,221	0.14	227	0.87	0.06	0.94
	0.02	0.01	0.0	221,221,0	0.03	0.01	0.01	227,221,221			1.00	0.04	0.96
1323	0.02	0.08	0.0	218,100,0	0.03	0.03	0.04	227,221,221	0.13	227	0.87	0.06	0.94
	0.03	0.02	0.0	221,221,0	0.03	0.03	0.03	227,221,221			1.00	0.04	0.96
1339	0.02	0.08	0.0	218,100,0	0.03	0.02	0.03	227,221,221	0.13	227	0.87	0.06	0.94
	0.03	0.02	0.0	221,221,0	0.03	0.03	0.03	227,221,221			1.00	0.04	0.96
1341	0.0	0.07	0.0	0,100,0	0.03	0.02	0.03	227,221,221	0.13	227	0.0	0.0	0.0
	4.72e-03	8.46e-03	0.0	221,224,0	0.03	3.42e-03	3.42e-03	227,221,221			1.00	0.04	0.96
1384	0.0	0.10	0.0	0,100,0	7.31e-03	4.42e-03	0.02	227,218,219	0.07	227	0.0	0.0	0.0
	4.01e-03	9.97e-03	0.0	219,224,0	7.31e-03	2.92e-03	2.92e-03	227,218,218			1.00	0.04	0.96
1385	0.05	0.10	0.0	218,100,0	0.05	0.04	0.06	227,217,217	0.17	227	0.87	0.06	0.94
	7.86e-03	0.01	0.0	221,224,0	0.05	0.01	0.01	227,224,224			1.00	0.04	0.96
1386	0.0	0.09	0.0	0,100,0	7.75e-03	4.90e-03	0.01	227,221,224	0.07	227	0.0	0.0	0.0
	4.01e-03	4.67e-03	0.0	219,218,0	7.75e-03	3.38e-03	3.38e-03	227,221,221			1.00	0.04	0.96
1387	6.43e-03	0.09	0.0	230,100,0	0.04	0.01	0.02	227,218,219	0.15	227	0.87	0.06	0.94
	0.01	8.49e-03	0.0	221,217,0	0.04	8.46e-03	8.46e-03	227,221,221			1.00	0.04	0.96
1388	0.0	0.08	0.0	0,100,0	7.78e-03	7.74e-03	0.02	227,221,224	0.07	227	0.0	0.0	0.0
	2.20e-03	1.73e-03	0.0	221,224,0	7.77e-03	3.38e-03	3.38e-03	227,221,221			1.00	0.04	0.96
1389	0.0	0.08	0.0	0,100,0	0.03	0.01	0.02	227,221,224	0.14	227	0.0	0.0	0.0
	0.01	8.49e-03	0.0	221,217,0	0.03	0.01	0.01	227,221,221			1.00	0.04	0.96
1390	0.01	0.08	0.0	221,100,0	7.78e-03	7.74e-03	0.02	227,221,224	0.07	227	0.87	0.06	0.94
	2.21e-03	1.87e-03	0.0	237,240,0	7.77e-03	3.12e-03	3.12e-03	227,221,221			1.00	0.04	0.96
1391	0.02	0.08	0.0	218,100,0	0.03	0.03	0.04	227,221,221	0.14	227	0.87	0.06	0.94
	0.02	0.01	0.0	221,221,0	0.03	0.01	0.01	227,221,221			1.00	0.04	0.96
1392	0.02	0.07	0.0	237,100,0	7.79e-03	6.13e-03	0.02	235,221,224	0.07	235	0.87	0.06	0.94
	2.21e-03	2.70e-03	0.0	237,224,0	7.79e-03	5.08e-03	5.08e-03	235,221,221			1.00	0.04	0.96
1393	0.02	0.08	0.0	237,100,0	0.03	0.03	0.04	227,221,221	0.13	227	0.87	0.06	0.94
	0.03	0.02	0.0	221,221,0	0.03	0.03	0.03	227,221,221			1.00	0.04	0.96
1394	0.03	0.07	0.0	233,236,0	7.79e-03	0.02	0.02	235,221,224	0.07	235	0.87	0.06	0.94
	2.19e-03	5.79e-03	0.0	221,100,0	7.79e-03	5.08e-03	5.08e-03	235,221,221			1.00	0.04	0.96
1395	0.03	0.08	0.0	233,100,0	0.03	0.02	0.03	227,221,221	0.13	227	0.87	0.06	0.94
	0.03	0.02	0.0	221,221,0	0.03	0.03	0.03	227,221,221			1.00	0.04	0.96
1396	0.03	0.07	0.0	233,236,0	7.75e-03	0.02	0.02	235,221,224	0.07	239	0.87	0.06	0.94
	0.0	5.79e-03	0.0	0,100,0	7.74e-03	2.18e-03	2.18e-03	239,224,224			0.0	0.0	0.0
1397	0.03	0.07	0.0	233,236,0	0.03	0.02	0.03	227,221,221	0.13	227	0.87	0.06	0.94
	4.72e-03	8.46e-03	0.0	221,224,0	0.03	3.42e-03	3.42e-03	227,221,221			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.05	0.10	0.0	0.05	0.04	0.06	0.17

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
40	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.41	27.7	198	0.72	-48.0	199	0.69	9291.8	-1.016e+06	231

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
452	0.17	0.16	0.0	231,230,0	0.03	0.02	0.03	226,46,42	0.13	226	0.87	0.06	0.94
	0.03	0.02	0.0	230,231,0	0.03	3.79e-03	3.79e-03	226,44,44			1.00	0.04	0.96
454	0.17	0.16	0.0	231,230,0	0.03	0.02	0.03	226,46,42	0.14	226	0.87	0.06	0.94
	0.03	0.02	0.0	230,231,0	0.03	3.79e-03	3.79e-03	226,44,44			1.00	0.04	0.96
456	0.10	0.11	0.0	224,221,0	0.03	0.04	0.06	226,218,218	0.14	226	0.87	0.06	0.94
	0.01	0.01	0.0	45,44,0	0.03	3.89e-03	3.89e-03	226,233,233			1.00	0.04	0.96
532	0.10	0.11	0.0	224,221,0	0.05	0.04	0.06	230,218,218	0.18	230	0.87	0.06	0.94
	0.04	0.02	0.0	225,228,0	0.05	0.01	0.01	230,46,46			1.00	0.04	0.96
546	0.06	0.07	0.0	224,237,0	0.18	0.01	0.02	231,218,221	0.33	231	0.87	0.06	0.94
	0.04	0.02	0.0	225,228,0	0.18	0.01	0.01	231,44,44			1.00	0.04	0.96
628	0.05	0.06	0.0	240,237,0	0.24	6.85e-03	0.01	227,218,221	0.37	227	0.87	0.06	0.94
	0.03	0.02	0.0	225,228,0	0.24	0.01	0.01	227,44,44			1.00	0.04	0.96
630	0.03	0.05	0.0	224,221,0	0.24	4.85e-03	0.01	227,221,221	0.38	227	0.87	0.06	0.94
	0.02	0.01	0.0	44,44,0	0.24	0.01	0.01	227,44,44			1.00	0.04	0.96
648	0.02	0.04	0.0	224,221,0	0.24	4.32e-03	0.01	227,221,221	0.38	227	0.87	0.06	0.94
	0.02	0.01	0.0	228,225,0	0.24	0.01	0.01	227,44,44			1.00	0.04	0.96
664	0.01	0.02	0.0	229,218,0	0.22	9.68e-03	0.01	227,221,221	0.36	227	0.87	0.06	0.94
	0.02	0.01	0.0	228,225,0	0.22	8.55e-03	8.55e-03	227,44,44			1.00	0.04	0.96
1214	0.01	0.02	0.0	229,230,0	0.13	9.68e-03	0.01	227,221,221	0.28	227	0.87	0.06	0.94

	0.02	0.01	0.0 228,225,0	0.13	3.10e-03	3.10e-03 227,45,45			1.00	0.04	0.96
1380	0.10	0.11	0.0 224,221,0	0.03	0.04	0.06230,218,218	0.13	230	0.87	0.06	0.94
	3.48e-03	4.88e-03	0.0 233,236,0	0.03	3.89e-03	3.89e-03230,233,233			1.00	0.04	0.96
1398	0.10	0.11	0.0 224,221,0	0.05	0.04	0.06230,218,218	0.18	230	0.87	0.06	0.94
	0.10	0.06	0.0 225,228,0	0.05	0.01	0.01 230,46,46			1.00	0.04	0.96
1399	0.06	0.07	0.0 224,237,0	0.26	0.01	0.02225,218,44	0.39	225	0.87	0.06	0.94
	0.10	0.06	0.0 225,228,0	0.26	0.01	0.01 225,44,44			1.00	0.04	0.96
1400	0.05	0.06	0.0 240,237,0	0.30	6.85e-03	0.02225,218,42	0.42	225	0.87	0.06	0.94
	0.09	0.06	0.0 225,228,0	0.30	0.01	0.01 225,44,44			1.00	0.04	0.96
1401	0.17	0.16	0.0 231,230,0	0.05	0.02	0.03 226,46,42	0.17	226	0.87	0.06	0.94
	0.17	0.11	0.0 225,228,0	0.05	4.29e-03	4.29e-03 226,45,45			1.00	0.04	0.96
1402	0.21	0.18	0.0 231,230,0	0.26	0.02	0.02 225,44,44	0.39	225	0.87	0.06	0.94
	0.17	0.11	0.0 225,228,0	0.26	4.29e-03	4.29e-03 225,45,45			1.00	0.04	0.96
1403	0.21	0.18	0.0 231,230,0	0.30	0.01	0.02225,44,230	0.42	225	0.87	0.06	0.94
	0.15	0.09	0.0 225,228,0	0.30	4.65e-03	4.65e-03 225,44,44			1.00	0.04	0.96
1404	0.17	0.16	0.0 231,230,0	0.03	0.02	0.03 226,46,42	0.13	226	0.87	0.06	0.94
	0.17	0.11	0.0 225,228,0	0.03	4.29e-03	4.29e-03 226,45,45			1.00	0.04	0.96
1405	0.21	0.18	0.0 231,230,0	0.25	0.02	0.02225,44,230	0.38	225	0.87	0.06	0.94
	0.17	0.11	0.0 225,228,0	0.25	4.29e-03	4.29e-03 225,45,45			1.00	0.04	0.96
1406	0.21	0.18	0.0 231,230,0	0.25	0.01	0.02225,44,230	0.38	225	0.87	0.06	0.94
	0.15	0.09	0.0 225,228,0	0.25	4.65e-03	4.65e-03 225,44,44			1.00	0.04	0.96
1413	0.05	0.05	0.0 45,221,0	0.31	5.90e-03	0.02 225,45,42	0.43	225	0.87	0.06	0.94
	0.02	0.02	0.0 44,44,0	0.31	0.01	0.01 225,44,44			1.00	0.04	0.96
1414	0.04	0.04	0.0 45,218,0	0.31	0.01	0.02 225,45,42	0.43	225	0.87	0.06	0.94
	0.04	0.03	0.0 228,225,0	0.31	0.01	0.01 225,44,44			1.00	0.04	0.96
1415	0.16	0.14	0.0 231,230,0	0.31	0.01	0.02 225,42,42	0.43	225	0.87	0.06	0.94
	0.03	0.02	0.0 228,44,0	0.31	4.65e-03	4.65e-03 225,44,44			1.00	0.04	0.96
1416	0.12	0.10	0.0 227,226,0	0.31	0.02	0.04 225,44,41	0.43	225	0.87	0.06	0.94
	0.07	0.05	0.0 228,225,0	0.31	4.06e-03	4.06e-03 225,44,44			1.00	0.04	0.96
1417	0.16	0.14	0.0 231,230,0	0.15	0.01	0.02 225,42,25	0.30	225	0.87	0.06	0.94
	0.03	0.02	0.0 228,225,0	0.15	4.65e-03	4.65e-03 225,44,44			1.00	0.04	0.96
1418	0.12	0.10	0.0 227,226,0	0.14	0.02	0.04 225,44,41	0.29	225	0.87	0.06	0.94
	0.07	0.05	0.0 228,225,0	0.14	4.06e-03	4.06e-03 225,44,44			1.00	0.04	0.96
1423	0.03	0.03	0.0 45,218,0	0.31	0.02	0.02 225,45,42	0.43	225	0.87	0.06	0.94
	0.05	0.04	0.0 228,225,0	0.31	8.55e-03	8.55e-03 225,44,44			1.00	0.04	0.96
1424	0.02	0.02	0.0 219,218,0	0.16	0.02	0.02 225,45,42	0.31	225	0.87	0.06	0.94
	0.05	0.04	0.0 228,225,0	0.16	5.95e-03	5.95e-03 225,44,44			1.00	0.04	0.96
1425	0.07	0.06	0.0 231,230,0	0.31	0.03	0.04 225,44,41	0.43	225	0.87	0.06	0.94
	0.09	0.06	0.0 228,225,0	0.31	5.95e-03	5.95e-03 225,44,44			1.00	0.04	0.96
1426	0.04	0.03	0.0 231,230,0	0.16	0.03	0.04 225,44,42	0.31	225	0.87	0.06	0.94
	0.09	0.06	0.0 228,225,0	0.16	5.95e-03	5.95e-03 225,44,44			1.00	0.04	0.96
1427	0.07	0.06	0.0 231,230,0	0.14	0.03	0.04 225,44,41	0.29	225	0.87	0.06	0.94
	0.09	0.06	0.0 228,225,0	0.14	3.53e-03	3.53e-03 225,44,44			1.00	0.04	0.96
1428	0.04	0.03	0.0 231,230,0	0.02	0.03	0.04 225,44,42	0.11	225	0.87	0.06	0.94
	0.09	0.06	0.0 228,225,0	0.02	1.46e-03	1.46e-03 225,44,44			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.21	0.18	0.0	0.31	0.04	0.06	0.43

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
41	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.52	-70.8	193	0.97	-133.5	193	0.91	-2236.7	-4.704e+06	231

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
384	0.20	0.22	0.0	225,228,0	0.02	0.02	0.03	228,43,44	0.12	228	0.87	0.06	0.94
	0.02	0.01	0.0	226,227,0	0.02	1.17e-03	1.17e-03	228,47,47			1.00	0.04	0.96
386	0.20	0.22	0.0	225,228,0	0.04	0.02	0.03	225,44,44	0.15	225	0.87	0.06	0.94
	0.02	0.01	0.0	226,227,0	0.04	1.22e-03	1.22e-03	225,45,45			1.00	0.04	0.96
388	0.05	0.08	0.0	231,230,0	0.06	0.02	0.03	225,44,44	0.19	225	0.87	0.06	0.94
	0.01	6.89e-03	0.0	44,45,0	0.06	1.26e-03	1.26e-03	225,43,43			1.00	0.04	0.96
390	0.02	0.05	0.0	231,230,0	0.07	0.02	0.03	227,42,44	0.21	227	0.87	0.06	0.94
	9.27e-03	5.36e-03	0.0	43,46,0	0.07	1.26e-03	1.26e-03	227,43,43			1.00	0.04	0.96
392	0.03	0.06	0.0	220,217,0	0.08	0.01	0.02	231,42,44	0.21	231	0.87	0.06	0.94
	0.01	0.01	0.0	45,44,0	0.08	5.61e-03	5.61e-03	231,45,45			1.00	0.04	0.96
394	0.04	0.08	0.0	228,225,0	0.08	4.06e-03	8.89e-03	231,44,225	0.21	231	0.87	0.06	0.94
	0.02	0.02	0.0	45,44,0	0.08	0.01	0.01	231,45,45			1.00	0.04	0.96
402	0.19	0.21	0.0	228,225,0	0.04	3.05e-03	0.02225,219,225		0.16	225	0.87	0.06	0.94

	0.02	0.02	0.0 45,44,0	0.04	0.01	0.01 225,45,45			1.00	0.04	0.96
447	0.07	0.09	0.0 228,225,0	0.16	1.70e-03	0.01225,211,225	0.31	225	0.87	0.06	0.94
	0.08	0.06	0.0 225,228,0	0.16	8.30e-03	8.30e-03 225,45,45			1.00	0.04	0.96
448	0.03	0.06	0.0 228,225,0	0.02	1.70e-03	6.61e-03225,211,225	0.11	225	0.87	0.06	0.94
	0.08	0.06	0.0 225,228,0	0.02	4.12e-03	4.12e-03 225,45,45			1.00	0.04	0.96
1430	0.16	0.19	0.0 228,225,0	0.18	1.19e-03	0.02225,42,225	0.32	225	0.87	0.06	0.94
	0.02	0.02	0.0 225,228,0	0.18	0.01	0.01 225,43,43			1.00	0.04	0.96
1432	0.12	0.14	0.0 228,225,0	0.16	1.47e-03	0.02225,47,225	0.31	225	0.87	0.06	0.94
	0.07	0.05	0.0 225,228,0	0.16	0.01	0.01 225,47,47			1.00	0.04	0.96
1435	0.04	0.08	0.0 228,225,0	0.13	4.06e-03	8.89e-03227,44,225	0.28	227	0.87	0.06	0.94
	0.12	0.09	0.0 228,225,0	0.13	0.02	0.02 227,45,45			1.00	0.04	0.96
1436	0.03	0.06	0.0 220,217,0	0.14	0.01	0.02 225,42,44	0.29	225	0.87	0.06	0.94
	0.06	0.04	0.0 228,225,0	0.14	0.02	0.02 225,45,45			1.00	0.04	0.96
1437	0.04	0.08	0.0 228,225,0	0.39	1.46e-03	8.51e-03227,44,225	0.48	227	0.87	0.06	0.94
	0.12	0.09	0.0 228,225,0	0.39	0.03	0.03 227,43,43			1.00	0.04	0.96
1438	0.02	0.05	0.0 212,209,0	0.39	6.23e-03	0.02 227,46,44	0.48	227	0.87	0.06	0.94
	0.06	0.04	0.0 228,225,0	0.39	0.03	0.03 227,43,43			1.00	0.04	0.96
1439	0.02	0.06	0.0 212,225,0	0.47	9.33e-04	6.51e-03227,219,44	0.53	227	0.87	0.06	0.94
	0.11	0.08	0.0 228,225,0	0.47	0.03	0.03 227,44,44			1.00	0.04	0.96
1440	0.02	0.05	0.0 212,44,0	0.48	2.48e-03	0.01 225,45,44	0.53	225	0.87	0.06	0.94
	0.06	0.04	0.0 228,225,0	0.48	0.03	0.03 225,44,44			1.00	0.04	0.96
1441	0.02	0.05	0.0 45,44,0	0.14	0.02	0.03 225,42,44	0.29	225	0.87	0.06	0.94
	0.07	0.04	0.0 225,228,0	0.14	8.78e-03	8.78e-03 225,45,45			1.00	0.04	0.96
1442	0.03	0.06	0.0 45,44,0	0.38	0.01	0.02 225,42,44	0.48	225	0.87	0.06	0.94
	0.07	0.04	0.0 225,228,0	0.38	0.01	0.01 225,47,47			1.00	0.04	0.96
1443	0.03	0.06	0.0 45,44,0	0.48	4.33e-03	0.02 225,46,44	0.53	225	0.87	0.06	0.94
	0.06	0.03	0.0 225,228,0	0.48	0.01	0.01 225,43,43			1.00	0.04	0.96
1444	0.05	0.08	0.0 231,230,0	0.13	0.02	0.03 225,44,44	0.27	225	0.87	0.06	0.94
	0.14	0.08	0.0 225,228,0	0.13	2.84e-03	2.84e-03 225,45,45			1.00	0.04	0.96
1445	0.05	0.08	0.0 231,230,0	0.38	0.01	0.03 225,44,44	0.47	225	0.87	0.06	0.94
	0.14	0.08	0.0 225,228,0	0.38	3.11e-03	3.11e-03 225,45,45			1.00	0.04	0.96
1446	0.04	0.08	0.0 45,44,0	0.46	6.18e-03	0.03 225,44,44	0.52	225	0.87	0.06	0.94
	0.12	0.07	0.0 225,228,0	0.46	3.29e-03	3.29e-03 225,44,44			1.00	0.04	0.96
1447	0.20	0.22	0.0 225,228,0	0.08	0.02	0.04 225,44,44	0.21	225	0.87	0.06	0.94
	0.21	0.12	0.0 225,228,0	0.08	3.62e-03	3.62e-03 225,43,43			1.00	0.04	0.96
1448	0.23	0.24	0.0 225,228,0	0.38	0.02	0.04 225,43,44	0.47	225	0.87	0.06	0.94
	0.21	0.12	0.0 225,228,0	0.38	3.62e-03	3.62e-03 225,43,43			1.00	0.04	0.96
1449	0.23	0.24	0.0 225,228,0	0.41	0.01	0.04 225,43,44	0.49	225	0.87	0.06	0.94
	0.17	0.10	0.0 225,228,0	0.41	3.29e-03	3.29e-03 225,44,44			1.00	0.04	0.96
1450	0.20	0.22	0.0 225,228,0	0.02	0.02	0.04 228,43,44	0.12	228	0.87	0.06	0.94
	0.21	0.12	0.0 225,228,0	0.02	3.62e-03	3.62e-03 228,43,43			1.00	0.04	0.96
1451	0.23	0.24	0.0 225,228,0	0.31	0.02	0.04 225,43,44	0.43	225	0.87	0.06	0.94
	0.21	0.12	0.0 225,228,0	0.31	3.62e-03	3.62e-03 225,43,43			1.00	0.04	0.96
1452	0.23	0.24	0.0 225,228,0	0.31	0.01	0.04 225,43,44	0.43	225	0.87	0.06	0.94
	0.17	0.10	0.0 225,228,0	0.31	3.05e-03	3.05e-03 225,43,43			1.00	0.04	0.96
1453	0.02	0.06	0.0 228,225,0	0.48	9.63e-04	6.48e-03225,215,44	0.53	225	0.87	0.06	0.94
	0.06	0.05	0.0 45,44,0	0.48	0.03	0.03 225,44,44			1.00	0.04	0.96
1454	0.02	0.05	0.0 45,44,0	0.49	3.10e-03	0.01 225,46,44	0.54	225	0.87	0.06	0.94
	0.05	0.04	0.0 45,44,0	0.49	0.03	0.03 225,44,44			1.00	0.04	0.96
1455	0.02	0.05	0.0 228,225,0	0.48	1.80e-03	6.92e-03 225,45,44	0.53	225	0.87	0.06	0.94
	0.05	0.04	0.0 45,44,0	0.48	0.03	0.03 225,43,43			1.00	0.04	0.96
1456	0.01	0.05	0.0 45,44,0	0.49	6.66e-03	0.02 225,46,44	0.54	225	0.87	0.06	0.94
	0.04	0.03	0.0 45,44,0	0.49	0.02	0.02 225,43,43			1.00	0.04	0.96
1457	0.03	0.06	0.0 45,44,0	0.49	5.52e-03	0.02 225,42,44	0.54	225	0.87	0.06	0.94
	0.02	0.01	0.0 45,44,0	0.49	0.01	0.01 225,43,43			1.00	0.04	0.96
1458	0.03	0.06	0.0 45,44,0	0.49	0.01	0.02 225,42,44	0.54	225	0.87	0.06	0.94
	0.02	0.02	0.0 226,227,0	0.49	0.01	0.01 225,47,47			1.00	0.04	0.96
1459	0.04	0.08	0.0 45,44,0	0.47	7.39e-03	0.03 225,44,44	0.53	225	0.87	0.06	0.94
	0.02	0.01	0.0 45,44,0	0.47	3.29e-03	3.29e-03 225,44,44			1.00	0.04	0.96
1460	0.04	0.07	0.0 45,44,0	0.47	0.01	0.03 225,44,44	0.53	225	0.87	0.06	0.94
	0.05	0.04	0.0 228,225,0	0.47	3.00e-03	3.00e-03 225,44,44			1.00	0.04	0.96
1461	0.17	0.19	0.0 225,228,0	0.43	9.32e-03	0.04 225,44,44	0.50	225	0.87	0.06	0.94
	0.03	0.02	0.0 228,225,0	0.43	3.29e-03	3.29e-03 225,44,44			1.00	0.04	0.96
1462	0.12	0.15	0.0 225,228,0	0.44	0.02	0.04 225,43,44	0.51	225	0.87	0.06	0.94
	0.07	0.06	0.0 228,225,0	0.44	3.00e-03	3.00e-03 225,44,44			1.00	0.04	0.96
1463	0.17	0.19	0.0 225,228,0	0.18	9.32e-03	0.04 225,44,44	0.32	225	0.87	0.06	0.94
	0.03	0.02	0.0 228,225,0	0.18	3.05e-03	3.05e-03 225,43,43			1.00	0.04	0.96
1464	0.12	0.15	0.0 225,228,0	0.19	0.02	0.04 225,43,44	0.34	225	0.87	0.06	0.94
	0.07	0.06	0.0 228,225,0	0.19	2.49e-03	2.49e-03 225,43,43			1.00	0.04	0.96
1465	9.06e-03	0.04	0.0 232,229,0	0.45	4.10e-03	7.53e-03 225,44,44	0.52	225	0.87	0.06	0.94
	0.06	0.04	0.0 233,236,0	0.45	0.02	0.02 225,45,45			1.00	0.04	0.96
1466	7.42e-03	0.04	0.0 45,44,0	0.45	0.01	0.02 225,44,44	0.52	225	0.87	0.06	0.94
	0.03	0.03	0.0 45,44,0	0.45	0.02	0.02 225,45,45			1.00	0.04	0.96
1467	3.85e-03	0.03	0.0 232,100,0	0.29	4.10e-03	7.53e-03 227,44,44	0.42	227	0.87	0.06	0.94
	0.06	0.04	0.0 233,236,0	0.29	9.70e-03	9.70e-03 227,45,45			1.00	0.04	0.96
1468	3.85e-03	0.03	0.0 232,100,0	0.31	0.01	0.02 225,44,44	0.43	225	0.87	0.06	0.94
	0.03	0.02	0.0 233,236,0	0.31	4.65e-03	4.65e-03 225,45,45			1.00	0.04	0.96

1469	0.02	0.05	0.0	45,44,0	0.45	0.02	0.03	225,42,44	0.52	225	0.87	0.06	0.94
	0.03	0.03	0.0	226,227,0	0.45	6.96e-03	6.96e-03	225,45,45			1.00	0.04	0.96
1470	9.18e-03	0.04	0.0	227,226,0	0.31	0.02	0.03	225,42,44	0.43	225	0.87	0.06	0.94
	0.03	0.03	0.0	226,227,0	0.31	2.81e-03	2.81e-03	225,43,43			1.00	0.04	0.96
1471	0.02	0.06	0.0	231,44,0	0.44	0.02	0.03	225,44,44	0.51	225	0.87	0.06	0.94
	0.06	0.05	0.0	228,225,0	0.44	2.81e-03	2.81e-03	225,43,43			1.00	0.04	0.96
1472	0.01	0.05	0.0	227,226,0	0.28	0.02	0.03	225,44,44	0.41	225	0.87	0.06	0.94
	0.06	0.05	0.0	228,225,0	0.28	2.81e-03	2.81e-03	225,43,43			1.00	0.04	0.96
1473	0.06	0.11	0.0	225,228,0	0.44	0.03	0.04	225,43,44	0.51	225	0.87	0.06	0.94
	0.09	0.08	0.0	228,225,0	0.44	2.59e-03	2.59e-03	225,43,43			1.00	0.04	0.96
1474	0.02	0.07	0.0	225,228,0	0.24	0.03	0.04	225,43,44	0.38	225	0.87	0.06	0.94
	0.09	0.08	0.0	228,225,0	0.24	2.59e-03	2.59e-03	225,43,43			1.00	0.04	0.96
1475	0.06	0.11	0.0	225,228,0	0.19	0.03	0.04	225,43,44	0.34	225	0.87	0.06	0.94
	0.09	0.08	0.0	228,225,0	0.19	1.97e-03	1.97e-03	225,43,43			1.00	0.04	0.96
1476	0.02	0.07	0.0	225,228,0	0.03	0.03	0.04	225,43,44	0.12	225	0.87	0.06	0.94
	0.09	0.08	0.0	228,225,0	0.03	1.13e-03	1.13e-03	225,46,46			1.00	0.04	0.96
2119	0.19	0.21	0.0	228,225,0	0.04	3.05e-03	0.02225,219,225		0.16	225	0.87	0.06	0.94
	0.02	0.02	0.0	233,236,0	0.04	4.42e-03	4.42e-03	225,45,45			1.00	0.04	0.96
2122	0.19	0.21	0.0	228,225,0	0.07	3.05e-03	0.02225,219,225		0.20	225	0.87	0.06	0.94
	0.16	0.12	0.0	228,225,0	0.07	0.02	0.02	225,45,45			1.00	0.04	0.96
2123	0.21	0.24	0.0	228,225,0	0.34	3.45e-03	0.03225,44,225		0.45	225	0.87	0.06	0.94
	0.16	0.12	0.0	228,225,0	0.34	0.03	0.03	225,43,43			1.00	0.04	0.96
2124	0.21	0.24	0.0	228,225,0	0.39	3.45e-03	0.03225,44,225		0.48	225	0.87	0.06	0.94
	0.14	0.10	0.0	228,225,0	0.39	0.03	0.03	225,44,44			1.00	0.04	0.96
2125	0.16	0.19	0.0	228,225,0	0.40	1.19e-03	0.02225,42,225		0.49	225	0.87	0.06	0.94
	0.06	0.05	0.0	45,44,0	0.40	0.03	0.03	225,44,44			1.00	0.04	0.96
2126	0.12	0.14	0.0	228,225,0	0.40	1.47e-03	0.02225,47,225		0.49	225	0.87	0.06	0.94
	0.07	0.05	0.0	225,228,0	0.40	0.03	0.03	225,43,43			1.00	0.04	0.96
2127	0.07	0.09	0.0	228,225,0	0.40	1.84e-03	0.01225,219,225		0.49	225	0.87	0.06	0.94
	0.08	0.06	0.0	225,228,0	0.40	0.02	0.02	225,45,45			1.00	0.04	0.96
2128	0.03	0.06	0.0	228,225,0	0.23	1.84e-03	6.61e-03	225,219,225	0.37	225	0.87	0.06	0.94
	0.08	0.06	0.0	225,228,0	0.23	9.70e-03	9.70e-03	225,45,45			1.00	0.04	0.96
2129	0.19	0.21	0.0	228,225,0	0.04	3.05e-03	0.02225,219,225		0.16	225	0.87	0.06	0.94
	0.16	0.12	0.0	228,225,0	0.04	9.10e-03	9.10e-03	225,45,45			1.00	0.04	0.96
2130	0.21	0.24	0.0	228,225,0	0.29	3.45e-03	0.03225,44,225		0.41	225	0.87	0.06	0.94
	0.16	0.12	0.0	228,225,0	0.29	0.01	0.01	225,43,43			1.00	0.04	0.96
2131	0.21	0.24	0.0	228,225,0	0.29	3.45e-03	0.03225,44,225		0.41	225	0.87	0.06	0.94
	0.14	0.10	0.0	228,225,0	0.29	0.01	0.01	225,43,43			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.23	0.24	0.0	0.49	0.03	0.04	0.54

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
42	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.17	1.9	193	0.17	1.9	193	0.16	-5062.6	-4.844e+04	225

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
335	0.0	0.14	0.0	0,100,0	2.62e-03	0.01	0.02228,212,212		0.04	228	0.0	0.0	0.0
	0.01	9.96e-03	0.0	226,227,0	2.59e-03	2.10e-04	2.10e-04	228,45,45			1.00	0.04	0.96
336	0.0	0.16	0.0	0,100,0	2.62e-03	0.01	0.02228,212,212		0.04	228	0.0	0.0	0.0
	0.02	0.01	0.0	233,236,0	2.59e-03	6.12e-04	6.12e-04	228,212,212			1.00	0.04	0.96
338	0.0	0.16	0.0	0,100,0	2.46e-03	8.28e-03	0.02225,212,209		0.04	225	0.0	0.0	0.0
	0.02	0.01	0.0	233,236,0	2.43e-03	6.12e-04	6.12e-04	225,212,212			1.00	0.04	0.96
1477	2.01e-03	0.17	0.0	228,100,0	0.02	8.28e-03	0.03225,212,209		0.10	225	0.87	0.06	0.94
	0.02	0.02	0.0	233,44,0	0.02	2.17e-03	2.17e-03	225,44,44			1.00	0.04	0.96
1478	0.02	0.17	0.0	225,100,0	0.02	0.01	0.03225,212,212		0.10	225	0.87	0.06	0.94
	0.03	0.03	0.0	225,228,0	0.02	3.43e-03	3.43e-03	225,212,212			1.00	0.04	0.96
1479	0.07	0.22	0.0	228,225,0	0.22	6.46e-03	0.03225,212,225		0.36	225	0.87	0.06	0.94
	0.02	0.03	0.0	228,225,0	0.22	2.17e-03	2.17e-03	225,44,44			1.00	0.04	0.96
1480	0.09	0.22	0.0	225,225,0	0.22	8.20e-03	0.03225,212,225		0.36	225	0.87	0.06	0.94
	0.03	0.03	0.0	225,228,0	0.22	3.43e-03	3.43e-03	225,212,212			1.00	0.04	0.96
1481	0.07	0.22	0.0	228,225,0	0.22	2.35e-03	0.03225,212,225		0.36	225	0.87	0.06	0.94
	0.02	0.03	0.0	228,225,0	0.22	1.75e-03	1.75e-03	225,219,219			1.00	0.04	0.96
1482	0.09	0.22	0.0	225,225,0	0.22	2.37e-03	0.03225,44,225		0.36	225	0.87	0.06	0.94
	0.03	0.03	0.0	225,228,0	0.22	3.06e-03	3.06e-03	225,212,212			1.00	0.04	0.96
1483	0.02	0.14	0.0	225,100,0	0.02	0.01	0.03228,212,212		0.10	228	0.87	0.06	0.94
	0.03	0.03	0.0	225,228,0	0.02	3.43e-03	3.43e-03	228,212,212			1.00	0.04	0.96

1484	0.09	0.21	0.0	225,228,0	0.21	8.20e-03	0.03225,212,228	0.35	225	0.87	0.06	0.94
	0.03	0.03	0.0	225,228,0	0.21	3.43e-03	3.43e-03225,212,212			1.00	0.04	0.96
1485	0.09	0.21	0.0	225,228,0	0.21	2.37e-03	0.03225,44,228	0.35	225	0.87	0.06	0.94
	0.03	0.03	0.0	225,228,0	0.21	3.06e-03	3.06e-03225,212,212			1.00	0.04	0.96
1486	0.0	0.17	0.0	0,100,0	0.22	4.27e-03	0.02225,212,212	0.36	225	0.0	0.0	0.0
	7.47e-03	6.73e-03	0.0	225,228,0	0.22	2.21e-04	2.21e-04225,215,215			1.00	0.04	0.96
1487	0.0	0.17	0.0	0,100,0	0.22	4.27e-03	0.02225,212,209	0.36	225	0.0	0.0	0.0
	9.35e-03	7.56e-03	0.0	228,225,0	0.22	3.36e-04	3.36e-04225,209,209			1.00	0.04	0.96
1488	0.10	0.23	0.0	225,228,0	0.21	6.29e-03	0.03225,212,228	0.35	225	0.87	0.06	0.94
	4.00e-03	0.01	0.0	228,228,0	0.21	5.35e-05	5.35e-05225,217,217			1.00	0.04	0.96
1489	0.10	0.23	0.0	225,225,0	0.21	6.29e-03	0.03225,212,228	0.35	225	0.87	0.06	0.94
	4.04e-03	0.02	0.0	225,100,0	0.21	1.04e-04	1.04e-04225,212,212			1.00	0.04	0.96
1490	0.0	0.17	0.0	0,100,0	0.21	4.06e-03	0.02225,212,209	0.35	225	0.0	0.0	0.0
	9.35e-03	7.56e-03	0.0	228,225,0	0.21	3.36e-04	3.36e-04225,209,209			1.00	0.04	0.96
1491	0.09	0.23	0.0	228,225,0	0.21	5.94e-03	0.03225,212,225	0.35	225	0.87	0.06	0.94
	4.04e-03	0.02	0.0	225,100,0	0.21	1.04e-04	1.04e-04225,212,212			1.00	0.04	0.96
1492	0.15	0.26	0.0	225,228,0	0.21	8.38e-03	0.04225,212,228	0.35	225	0.87	0.06	0.94
	3.49e-03	0.02	0.0	225,100,0	0.21	2.61e-04	2.61e-04225,224,224			1.00	0.04	0.96
1493	0.15	0.27	0.0	225,225,0	0.21	8.38e-03	0.04225,212,228	0.35	225	0.87	0.06	0.94
	3.49e-03	0.03	0.0	225,100,0	0.21	3.81e-04	3.81e-04225,229,229			1.00	0.04	0.96
1494	0.15	0.26	0.0	225,228,0	1.20e-03	8.38e-03	0.04225,212,228	0.03	225	0.87	0.06	0.94
	0.0	0.02	0.0	0,100,0	1.19e-03	2.61e-04	2.61e-04225,224,224			0.0	0.0	0.0
1495	0.15	0.27	0.0	225,225,0	1.34e-03	8.38e-03	0.04225,212,228	0.03	225	0.87	0.06	0.94
	0.0	0.03	0.0	0,100,0	1.20e-03	3.81e-04	3.81e-04225,229,229			0.0	0.0	0.0
1496	0.14	0.27	0.0	228,225,0	0.21	7.93e-03	0.04225,212,225	0.35	225	0.87	0.06	0.94
	1.55e-03	0.03	0.0	228,100,0	0.21	3.81e-04	3.81e-04225,229,229			1.00	0.04	0.96
1497	0.14	0.27	0.0	228,225,0	1.34e-03	7.93e-03	0.04225,212,225	0.03	225	0.87	0.06	0.94
	0.0	0.03	0.0	0,100,0	1.20e-03	3.81e-04	3.81e-04225,229,229			0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.15	0.27	0.0	0.22	0.01	0.04	0.36

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
43	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.29	17.4	196	0.73	43.1	196	0.70	7587.0	6.777e+05	228

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
282	0.06	0.08	0.0	215,214,0	0.03	0.02	0.03212,212,209		0.12	212	0.87	0.06	0.94
	9.91e-03	8.96e-03	0.0	209,212,0	0.03	3.44e-03	3.44e-03212,216,216				1.00	0.04	0.96
308	0.06	0.08	0.0	215,214,0	0.03	0.02	0.03212,212,209		0.12	212	0.87	0.06	0.94
	0.02	0.02	0.0	209,212,0	0.03	6.02e-03	6.02e-03212,212,212				1.00	0.04	0.96
310	0.16	0.20	0.0	228,225,0	0.02	0.02	0.03 228,44,44		0.10	228	0.87	0.06	0.94
	0.03	0.02	0.0	225,228,0	0.02	0.01	0.01228,212,212				1.00	0.04	0.96
312	0.16	0.20	0.0	228,225,0	0.01	0.02	0.03 225,44,44		0.09	225	0.87	0.06	0.94
	0.03	0.02	0.0	225,228,0	0.01	0.01	0.01225,212,212				1.00	0.04	0.96
1498	0.16	0.20	0.0	228,225,0	0.01	0.02	0.04 225,44,44		0.09	225	0.87	0.06	0.94
	0.20	0.13	0.0	228,225,0	0.01	0.01	0.01225,212,212				1.00	0.04	0.96
1499	0.16	0.20	0.0	228,225,0	0.04	0.02	0.04 228,44,44		0.15	228	0.87	0.06	0.94
	0.20	0.13	0.0	228,225,0	0.04	0.01	0.01228,212,212				1.00	0.04	0.96
1500	0.19	0.24	0.0	228,225,0	0.23	0.02	0.04 228,44,44		0.37	228	0.87	0.06	0.94
	0.20	0.13	0.0	228,225,0	0.23	5.02e-03	5.02e-03 228,44,44				1.00	0.04	0.96
1501	0.19	0.24	0.0	228,225,0	0.28	0.02	0.04 228,44,44		0.40	228	0.87	0.06	0.94
	0.20	0.13	0.0	228,225,0	0.28	5.02e-03	5.02e-03 228,44,44				1.00	0.04	0.96
1502	0.19	0.24	0.0	228,225,0	0.23	0.01	0.04 228,44,44		0.37	228	0.87	0.06	0.94
	0.17	0.11	0.0	228,225,0	0.23	5.14e-03	5.14e-03228,212,212				1.00	0.04	0.96
1503	0.19	0.24	0.0	228,225,0	0.32	0.01	0.04 228,44,44		0.43	228	0.87	0.06	0.94
	0.17	0.11	0.0	228,225,0	0.32	5.14e-03	5.14e-03228,212,212				1.00	0.04	0.96
1504	0.08	0.09	0.0	215,214,0	0.05	0.02	0.03228,212,209		0.17	228	0.87	0.06	0.94
	0.13	0.09	0.0	228,225,0	0.05	0.02	0.02228,212,212				1.00	0.04	0.96
1505	0.08	0.09	0.0	215,214,0	0.28	0.02	0.03228,212,209		0.40	228	0.87	0.06	0.94
	0.13	0.09	0.0	228,225,0	0.28	0.02	0.02228,212,212				1.00	0.04	0.96
1506	0.07	0.08	0.0	215,214,0	0.32	0.02	0.03228,212,209		0.43	228	0.87	0.06	0.94
	0.11	0.08	0.0	228,225,0	0.32	0.02	0.02228,212,212				1.00	0.04	0.96
1507	0.08	0.09	0.0	215,214,0	0.05	0.02	0.03228,212,209		0.17	228	0.87	0.06	0.94
	0.05	0.04	0.0	228,225,0	0.05	0.02	0.02228,212,212				1.00	0.04	0.96
1508	0.08	0.09	0.0	215,214,0	0.23	0.02	0.03228,212,209		0.37	228	0.87	0.06	0.94
	0.05	0.04	0.0	228,225,0	0.23	0.02	0.02228,212,212				1.00	0.04	0.96

1509	0.07	0.08	0.0 215,214,0	0.29	0.02	0.03228,212,209	0.41	228	0.87	0.06	0.94
	0.05	0.03	0.0 228,225,0	0.29	0.02	0.02228,212,212			1.00	0.04	0.96
1510	0.13	0.19	0.0 228,225,0	0.14	0.01	0.04 228,44,44	0.29	228	0.87	0.06	0.94
	0.03	0.02	0.0 225,228,0	0.14	5.14e-03	5.14e-03228,212,212			1.00	0.04	0.96
1511	0.13	0.19	0.0 228,225,0	0.32	0.01	0.04 228,44,44	0.44	228	0.87	0.06	0.94
	0.03	0.02	0.0 225,228,0	0.32	5.14e-03	5.14e-03228,212,212			1.00	0.04	0.96
1512	0.07	0.13	0.0 228,225,0	0.15	0.02	0.05 228,44,44	0.29	228	0.87	0.06	0.94
	0.06	0.05	0.0 225,228,0	0.15	3.56e-03	3.56e-03228,212,212			1.00	0.04	0.96
1513	0.07	0.13	0.0 228,225,0	0.32	0.02	0.05 228,44,44	0.44	228	0.87	0.06	0.94
	0.06	0.05	0.0 225,228,0	0.32	4.64e-03	4.64e-03228,212,212			1.00	0.04	0.96
1514	0.04	0.07	0.0 215,44,0	0.32	0.02	0.02228,212,209	0.44	228	0.87	0.06	0.94
	0.02	0.02	0.0 45,44,0	0.32	0.01	0.01 228,44,44			1.00	0.04	0.96
1515	0.03	0.07	0.0 45,44,0	0.32	0.01	0.03228,212,44	0.44	228	0.87	0.06	0.94
	0.05	0.04	0.0 225,228,0	0.32	0.01	0.01 228,42,42			1.00	0.04	0.96
1516	0.04	0.06	0.0 215,214,0	0.30	0.02	0.02228,212,209	0.42	228	0.87	0.06	0.94
	0.01	0.01	0.0 45,44,0	0.30	0.01	0.01 228,44,44			1.00	0.04	0.96
1517	5.82e-03	0.03	0.0 45,44,0	0.30	0.01	0.02228,212,209	0.42	228	0.87	0.06	0.94
	0.02	0.02	0.0 225,228,0	0.30	0.01	0.01 228,42,42			1.00	0.04	0.96
1518	0.02	0.10	0.0 45,44,0	0.15	0.03	0.05 228,46,44	0.29	228	0.87	0.06	0.94
	0.08	0.06	0.0 225,228,0	0.15	3.56e-03	3.56e-03228,212,212			1.00	0.04	0.96
1519	0.02	0.10	0.0 45,44,0	0.32	0.03	0.05 228,46,44	0.43	228	0.87	0.06	0.94
	0.08	0.06	0.0 225,228,0	0.32	5.02e-03	5.02e-03 228,42,42			1.00	0.04	0.96
1520	0.0	0.07	0.0 0,100,0	0.02	0.03	0.04 228,46,44	0.10	228	0.0	0.0	0.0
	0.08	0.06	0.0 225,228,0	0.02	2.33e-03	2.33e-03 228,42,42			1.00	0.04	0.96
1521	0.0	0.07	0.0 0,100,0	0.15	0.03	0.04 228,46,44	0.30	228	0.0	0.0	0.0
	0.08	0.06	0.0 225,228,0	0.15	5.02e-03	5.02e-03 228,42,42			1.00	0.04	0.96
1522	0.03	0.06	0.0 214,44,0	0.32	0.02	0.03 228,45,44	0.43	228	0.87	0.06	0.94
	0.05	0.04	0.0 225,228,0	0.32	8.34e-03	8.34e-03 228,44,44			1.00	0.04	0.96
1523	0.0	0.04	0.0 0,100,0	0.16	0.02	0.03 228,45,44	0.30	228	0.0	0.0	0.0
	0.05	0.04	0.0 225,228,0	0.16	8.34e-03	8.34e-03 228,44,44			1.00	0.04	0.96
1524	0.03	0.05	0.0 214,215,0	0.27	0.02	0.03228,212,212	0.40	228	0.87	0.06	0.94
	0.04	0.03	0.0 225,228,0	0.27	7.53e-03	7.53e-03 228,45,45			1.00	0.04	0.96
1525	0.03	0.05	0.0 214,215,0	0.16	0.02	0.03228,212,212	0.30	228	0.87	0.06	0.94
	0.04	0.03	0.0 225,228,0	0.16	8.34e-03	8.34e-03 228,44,44			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.20	0.24	0.0	0.32	0.03	0.05	0.44

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
44	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.31	-18.3	196	0.62	-36.9	180	0.75	1.233e+04	-2.656e+05	225

Nodo	V. 127	V. 128	V. 545 Rif. cmb	V. 129	V. 130	V. 131 Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
276	0.14	0.14	0.0 209,212,0	8.13e-03	0.02	0.03 212,70,68	0.07	212	0.87	0.06	0.94
	0.02	0.02	0.0 212,209,0	8.09e-03	0.01	0.01212,225,225			1.00	0.04	0.96
278	0.14	0.14	0.0 209,212,0	0.01	0.02	0.03 228,70,68	0.08	228	0.87	0.06	0.94
	0.03	0.02	0.0 236,233,0	0.01	0.01	0.01228,225,225			1.00	0.04	0.96
280	0.08	0.09	0.0 235,234,0	0.03	0.03	0.04228,225,228	0.14	228	0.87	0.06	0.94
	0.03	0.02	0.0 236,233,0	0.03	7.13e-03	7.13e-03228,225,225			1.00	0.04	0.96
282	0.08	0.09	0.0 235,234,0	0.03	0.03	0.04228,225,228	0.14	228	0.87	0.06	0.94
	0.01	0.01	0.0 236,233,0	0.03	4.91e-03	4.91e-03228,209,209			1.00	0.04	0.96
1507	0.11	0.11	0.0 239,238,0	0.05	0.03	0.04228,225,228	0.17	228	0.87	0.06	0.94
	0.05	0.04	0.0 225,228,0	0.05	0.03	0.03228,225,225			1.00	0.04	0.96
1508	0.11	0.11	0.0 239,238,0	0.16	0.02	0.04212,225,228	0.31	212	0.87	0.06	0.94
	0.05	0.04	0.0 225,228,0	0.16	0.03	0.03212,225,225			1.00	0.04	0.96
1509	0.10	0.10	0.0 239,238,0	0.20	0.02	0.04212,228,228	0.34	212	0.87	0.06	0.94
	0.04	0.03	0.0 225,228,0	0.20	0.02	0.02212,225,225			1.00	0.04	0.96
1516	0.06	0.07	0.0 239,234,0	0.21	0.02	0.03212,228,228	0.35	212	0.87	0.06	0.94
	0.01	0.01	0.0 68,68,0	0.21	0.01	0.01 212,68,68			1.00	0.04	0.96
1517	0.02	0.04	0.0 233,236,0	0.21	0.02	0.02212,228,228	0.35	212	0.87	0.06	0.94
	0.02	0.02	0.0 228,225,0	0.21	0.01	0.01212,228,228			1.00	0.04	0.96
1524	0.02	0.03	0.0 225,228,0	0.19	0.02	0.02212,228,228	0.34	212	0.87	0.06	0.94
	0.02	0.02	0.0 228,225,0	0.19	0.01	0.01212,228,228			1.00	0.04	0.96
1525	0.02	0.03	0.0 209,212,0	0.10	0.02	0.02212,228,228	0.25	212	0.87	0.06	0.94
	0.02	0.01	0.0 228,225,0	0.10	9.46e-03	9.46e-03212,228,228			1.00	0.04	0.96
1526	0.11	0.11	0.0 239,238,0	0.05	0.03	0.04228,225,228	0.17	228	0.87	0.06	0.94
	0.11	0.08	0.0 209,212,0	0.05	0.03	0.03228,225,225			1.00	0.04	0.96

1527	0.11	0.11	0.0 239,238,0	0.19	0.02	0.04212,225,228	0.33	212	0.87	0.06	0.94
	0.11	0.08	0.0 209,212,0	0.19	0.03	0.03212,225,225			1.00	0.04	0.96
1528	0.10	0.10	0.0 239,238,0	0.22	0.02	0.04212,228,228	0.36	212	0.87	0.06	0.94
	0.10	0.07	0.0 209,212,0	0.22	0.02	0.02212,225,225			1.00	0.04	0.96
1529	0.14	0.14	0.0 209,212,0	0.03	0.02	0.04 212,70,68	0.12	212	0.87	0.06	0.94
	0.16	0.11	0.0 209,212,0	0.03	0.01	0.01212,225,225			1.00	0.04	0.96
1530	0.16	0.17	0.0 209,212,0	0.19	0.02	0.04 212,66,68	0.33	212	0.87	0.06	0.94
	0.16	0.11	0.0 209,212,0	0.19	4.87e-03	4.87e-03 212,70,70			1.00	0.04	0.96
1531	0.16	0.17	0.0 209,212,0	0.22	0.01	0.04 212,68,68	0.36	212	0.87	0.06	0.94
	0.14	0.10	0.0 209,212,0	0.22	6.02e-03	6.02e-03212,225,225			1.00	0.04	0.96
1532	0.14	0.14	0.0 209,212,0	8.13e-03	0.02	0.04 212,70,68	0.07	212	0.87	0.06	0.94
	0.16	0.11	0.0 209,212,0	8.09e-03	0.01	0.01212,225,225			1.00	0.04	0.96
1533	0.16	0.17	0.0 209,212,0	0.16	0.02	0.04 212,66,68	0.31	212	0.87	0.06	0.94
	0.16	0.11	0.0 209,212,0	0.16	4.87e-03	4.87e-03 212,70,70			1.00	0.04	0.96
1534	0.16	0.17	0.0 209,212,0	0.16	0.01	0.04 212,68,68	0.31	212	0.87	0.06	0.94
	0.14	0.10	0.0 209,212,0	0.16	6.02e-03	6.02e-03212,225,225			1.00	0.04	0.96
1535	0.06	0.07	0.0 239,234,0	0.22	0.02	0.03212,228,228	0.36	212	0.87	0.06	0.94
	0.02	0.02	0.0 68,68,0	0.22	0.01	0.01 212,68,68			1.00	0.04	0.96
1536	0.04	0.05	0.0 225,228,0	0.22	0.02	0.02212,228,66	0.36	212	0.87	0.06	0.94
	0.05	0.03	0.0 212,209,0	0.22	0.01	0.01212,228,228			1.00	0.04	0.96
1537	0.12	0.12	0.0 225,228,0	0.22	9.98e-03	0.03 212,70,68	0.36	212	0.87	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.22	6.02e-03	6.02e-03212,225,225			1.00	0.04	0.96
1538	0.08	0.09	0.0 225,228,0	0.22	0.02	0.04 212,68,68	0.36	212	0.87	0.06	0.94
	0.06	0.04	0.0 212,209,0	0.22	6.09e-03	6.09e-03212,228,228			1.00	0.04	0.96
1539	0.12	0.12	0.0 225,228,0	0.10	9.98e-03	0.03 212,70,68	0.24	212	0.87	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.10	6.02e-03	6.02e-03212,225,225			1.00	0.04	0.96
1540	0.08	0.09	0.0 225,228,0	0.10	0.02	0.04 212,68,68	0.24	212	0.87	0.06	0.94
	0.06	0.04	0.0 212,209,0	0.10	4.50e-03	4.50e-03212,228,228			1.00	0.04	0.96
1541	0.03	0.04	0.0 225,228,0	0.22	0.02	0.02 212,69,66	0.36	212	0.87	0.06	0.94
	0.05	0.03	0.0 212,209,0	0.22	0.01	0.01212,228,228			1.00	0.04	0.96
1542	0.02	0.03	0.0 231,230,0	0.10	0.02	0.02 212,69,66	0.25	212	0.87	0.06	0.94
	0.05	0.03	0.0 212,209,0	0.10	9.46e-03	9.46e-03212,228,228			1.00	0.04	0.96
1543	0.05	0.06	0.0 225,228,0	0.22	0.03	0.04 212,68,68	0.36	212	0.87	0.06	0.94
	0.08	0.05	0.0 212,209,0	0.22	6.22e-03	6.22e-03 212,68,68			1.00	0.04	0.96
1544	0.03	0.04	0.0 227,226,0	0.10	0.03	0.04 212,68,68	0.25	212	0.87	0.06	0.94
	0.08	0.05	0.0 212,209,0	0.10	6.22e-03	6.22e-03 212,68,68			1.00	0.04	0.96
1545	0.05	0.06	0.0 225,228,0	0.10	0.03	0.04 212,68,68	0.24	212	0.87	0.06	0.94
	0.08	0.05	0.0 212,209,0	0.10	4.50e-03	4.50e-03212,228,228			1.00	0.04	0.96
1546	0.03	0.04	0.0 227,226,0	0.01	0.03	0.04 212,68,68	0.08	212	0.87	0.06	0.94
	0.08	0.05	0.0 212,209,0	0.01	2.94e-03	2.94e-03 212,68,68			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.16	0.17	0.0	0.22	0.03	0.04	0.36

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
45	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.25	2.9	180	0.15	1.7	180	0.15	-322.2	2.667e+04	212

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
239	0.01	0.02	0.0 225,228,0		2.84e-03	7.64e-03	0.01212,235,232		0.04	212	0.87	0.06	0.94
	0.02	0.01	0.0 212,209,0		2.84e-03	4.95e-03	4.95e-03212,222,222				1.00	0.04	0.96
240	0.02	0.02	0.0 212,228,0		2.84e-03	0.01	0.02212,227,227		0.04	212	0.87	0.06	0.94
	0.02	0.01	0.0 212,211,0		2.84e-03	5.29e-03	5.29e-03212,238,238				1.00	0.04	0.96
242	0.02	0.02	0.0 212,209,0		2.41e-03	0.01	0.02209,227,227		0.04	209	0.87	0.06	0.94
	0.02	0.01	0.0 210,211,0		2.41e-03	5.29e-03	5.29e-03209,238,238				1.00	0.04	0.96
1547	0.06	0.06	0.0 215,209,0		0.01	0.01	0.02212,227,229		0.09	212	0.87	0.06	0.94
	0.02	0.02	0.0 228,225,0		0.01	5.29e-03	5.29e-03212,238,238				1.00	0.04	0.96
1548	0.06	0.07	0.0 215,212,0		0.01	0.01	0.02212,227,229		0.09	212	0.87	0.06	0.94
	0.03	0.02	0.0 214,215,0		0.01	5.29e-03	5.29e-03212,238,238				1.00	0.04	0.96
1549	0.11	0.10	0.0 212,209,0		0.13	9.96e-03	0.02212,231,229		0.28	212	0.87	0.06	0.94
	0.02	0.02	0.0 228,225,0		0.13	4.13e-03	4.13e-03212,231,231				1.00	0.04	0.96
1550	0.11	0.11	0.0 212,212,0		0.14	9.96e-03	0.02212,231,229		0.28	212	0.87	0.06	0.94
	0.03	0.02	0.0 214,215,0		0.14	4.13e-03	4.13e-03212,231,231				1.00	0.04	0.96
1551	0.11	0.10	0.0 212,209,0		0.13	2.47e-03	0.02212,227,229		0.28	212	0.87	0.06	0.94
	0.02	0.02	0.0 212,209,0		0.13	3.20e-03	3.20e-03212,225,225				1.00	0.04	0.96
1552	0.11	0.11	0.0 212,212,0		0.14	2.47e-03	0.02212,227,228		0.28	212	0.87	0.06	0.94
	0.03	0.02	0.0 214,215,0		0.14	3.20e-03	3.20e-03212,225,225				1.00	0.04	0.96

1553	0.06	0.07	0.0 209,212,0	0.01	7.64e-03	0.02212,235,228	0.09	212	0.87	0.06	0.94
	0.03	0.02	0.0 214,215,0	0.01	4.95e-03	4.95e-03212,222,222			1.00	0.04	0.96
1554	0.11	0.11	0.0 209,212,0	0.14	6.98e-03	0.02212,225,228	0.28	212	0.87	0.06	0.94
	0.03	0.02	0.0 214,215,0	0.14	2.29e-03	2.29e-03212,234,234			1.00	0.04	0.96
1555	0.11	0.11	0.0 209,212,0	0.14	1.97e-03	0.02212,229,228	0.28	212	0.87	0.06	0.94
	0.03	0.02	0.0 214,215,0	0.14	2.29e-03	2.29e-03212,234,234			1.00	0.04	0.96
1556	0.05	0.06	0.0 209,212,0	0.13	3.96e-03	0.01212,231,228	0.28	212	0.87	0.06	0.94
	6.72e-03	4.59e-03	0.0 209,212,0	0.13	4.34e-04	4.34e-04212,212,212			1.00	0.04	0.96
1557	0.06	0.06	0.0 212,209,0	0.13	3.98e-03	0.01212,225,228	0.28	212	0.87	0.06	0.94
	8.03e-03	5.72e-03	0.0 215,214,0	0.13	4.49e-04	4.49e-04212,235,235			1.00	0.04	0.96
1558	0.13	0.13	0.0 209,212,0	0.13	6.11e-03	0.02212,227,228	0.28	212	0.87	0.06	0.94
	9.13e-03	6.82e-03	0.0 209,212,0	0.13	1.16e-04	1.16e-04212,225,225			1.00	0.04	0.96
1559	0.15	0.13	0.0 212,212,0	0.13	6.11e-03	0.02212,227,228	0.28	212	0.87	0.06	0.94
	9.95e-03	6.82e-03	0.0 212,212,0	0.13	1.16e-04	1.16e-04212,225,225			1.00	0.04	0.96
1560	0.06	0.06	0.0 212,209,0	0.13	3.98e-03	0.01212,225,225	0.28	212	0.87	0.06	0.94
	8.03e-03	5.72e-03	0.0 215,214,0	0.13	4.49e-04	4.49e-04212,235,235			1.00	0.04	0.96
1561	0.15	0.13	0.0 212,209,0	0.13	5.54e-03	0.02212,231,225	0.28	212	0.87	0.06	0.94
	9.95e-03	6.48e-03	0.0 212,209,0	0.13	9.28e-05	9.28e-05212,240,240			1.00	0.04	0.96
1562	0.17	0.16	0.0 209,212,0	0.13	7.61e-03	0.02212,227,228	0.28	212	0.87	0.06	0.94
	9.13e-03	6.82e-03	0.0 209,212,0	0.13	4.42e-04	4.42e-04212,209,209			1.00	0.04	0.96
1563	0.18	0.16	0.0 212,212,0	0.13	8.00e-03	0.02212,225,209	0.28	212	0.87	0.06	0.94
	0.02	0.01	0.0 212,209,0	0.13	4.42e-04	4.42e-04212,209,209			1.00	0.04	0.96
1564	0.17	0.16	0.0 209,212,0	9.47e-04	7.61e-03	0.02212,227,228	0.02	212	0.87	0.06	0.94
	6.74e-03	5.91e-03	0.0 238,239,0	8.98e-04	4.42e-04	4.42e-04212,209,209			1.00	0.04	0.96
1565	0.18	0.16	0.0 212,212,0	9.47e-04	8.00e-03	0.02212,225,209	0.02	212	0.87	0.06	0.94
	0.02	0.01	0.0 212,209,0	8.98e-04	4.42e-04	4.42e-04212,209,209			1.00	0.04	0.96
1566	0.18	0.16	0.0 212,209,0	0.13	8.00e-03	0.02212,225,209	0.28	212	0.87	0.06	0.94
	0.02	0.01	0.0 212,209,0	0.13	3.35e-04	3.35e-04212,237,237			1.00	0.04	0.96
1567	0.18	0.16	0.0 212,209,0	7.67e-04	8.00e-03	0.02212,225,209	0.02	212	0.87	0.06	0.94
	0.02	0.01	0.0 212,209,0	7.65e-04	3.35e-04	3.35e-04212,237,237			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.18	0.16	0.0	0.14	0.01	0.02	0.28

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
46	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	NV

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
NV	0.98	-216.7	187	1.03	-228.2	187	0.81	-5911.4	-5.320e+06	237

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
394	0.04	0.07	0.0	228,225,0	0.08	0.03	0.04219,225,225		0.22	219	0.87	0.06	0.94
	9.44e-03	9.35e-03	0.0	225,225,0	0.08	3.34e-03	3.34e-03219,225,225				1.00	0.04	0.96
774	0.08	0.09	0.0	237,240,0	0.02	0.03	0.04223,234,234		0.10	223	0.87	0.06	0.94
	0.08	0.07	0.0	222,223,0	0.02	0.01	0.01223,234,234				1.00	0.04	0.96
851	0.04	0.07	0.0	228,225,0	0.12	0.03	0.04219,225,225		0.26	219	0.87	0.06	0.94
	0.02	0.02	0.0	225,225,0	0.12	3.34e-03	3.34e-03219,225,225				1.00	0.04	0.96
853	0.02	0.05	0.0	212,209,0	0.13	6.03e-03	0.01219,233,233		0.28	219	0.87	0.06	0.94
	0.02	0.02	0.0	225,225,0	0.13	5.67e-03	5.67e-03219,225,225				1.00	0.04	0.96
855	3.55e-03	0.03	0.0	220,217,0	0.13	6.17e-03	9.77e-03219,225,225		0.28	219	0.87	0.06	0.94
	0.02	0.01	0.0	225,225,0	0.13	5.67e-03	5.67e-03219,225,225				1.00	0.04	0.96
857	0.0	0.03	0.0	0,100,0	0.13	6.41e-03	9.77e-03219,225,225		0.28	219	0.0	0.0	0.0
	8.47e-03	7.92e-03	0.0	228,225,0	0.13	2.66e-03	2.66e-03219,233,233				1.00	0.04	0.96
859	0.0	0.04	0.0	0,100,0	0.13	6.41e-03	9.31e-03224,225,225		0.28	224	0.0	0.0	0.0
	4.41e-03	4.93e-03	0.0	236,233,0	0.13	7.35e-04	7.35e-04224,233,233				1.00	0.04	0.96
861	0.0	0.04	0.0	0,100,0	0.13	6.20e-03	9.18e-03220,225,225		0.28	220	0.0	0.0	0.0
	3.17e-03	3.75e-03	0.0	238,223,0	0.13	6.21e-04	6.21e-04220,227,227				1.00	0.04	0.96
863	0.0	0.03	0.0	0,100,0	0.13	5.32e-03	8.05e-03220,227,226		0.28	220	0.0	0.0	0.0
	8.95e-03	8.24e-03	0.0	222,223,0	0.13	5.60e-04	5.60e-04220,227,227				1.00	0.04	0.96
865	1.77e-03	0.03	0.0	233,100,0	0.13	5.32e-03	8.21e-03220,227,228		0.27	220	0.87	0.06	0.94
	0.01	0.01	0.0	222,223,0	0.13	4.98e-04	4.98e-04220,224,224				1.00	0.04	0.96
867	0.01	0.03	0.0	237,240,0	0.12	5.57e-03	9.73e-03224,233,236		0.27	224	0.87	0.06	0.94
	0.02	0.02	0.0	222,223,0	0.12	6.70e-04	6.70e-04224,235,235				1.00	0.04	0.96
869	0.03	0.04	0.0	237,240,0	0.11	5.99e-03	0.01224,238,236		0.26	224	0.87	0.06	0.94
	0.03	0.03	0.0	222,223,0	0.11	2.37e-03	2.37e-03224,234,234				1.00	0.04	0.96
871	0.05	0.06	0.0	221,224,0	0.10	7.71e-03	0.02219,234,240		0.24	219	0.87	0.06	0.94
	0.06	0.05	0.0	214,215,0	0.10	8.80e-03	8.80e-03219,234,234				1.00	0.04	0.96
873	0.08	0.09	0.0	237,240,0	0.09	0.03	0.04219,234,234		0.23	219	0.87	0.06	0.94
	0.08	0.07	0.0	222,223,0	0.09	0.01	0.01219,234,234				1.00	0.04	0.96

1435	0.06	0.08	0.0	228,225,0	0.08	0.03	0.04219,225,225	0.22	219	0.87	0.06	0.94
	0.03	0.03	0.0	225,225,0	0.08	0.03	0.03219,225,225			1.00	0.04	0.96
1437	0.06	0.08	0.0	228,225,0	0.09	0.02	0.04219,225,225	0.22	219	0.87	0.06	0.94
	0.03	0.03	0.0	225,225,0	0.09	0.03	0.03219,225,225			1.00	0.04	0.96
1439	0.06	0.08	0.0	228,225,0	0.09	0.02	0.04219,225,225	0.23	219	0.87	0.06	0.94
	0.03	0.02	0.0	225,225,0	0.09	0.03	0.03219,225,225			1.00	0.04	0.96
1453	0.04	0.06	0.0	228,225,0	0.09	0.02	0.03219,225,225	0.23	219	0.87	0.06	0.94
	0.01	9.01e-03	0.0	225,231,0	0.09	8.63e-03	8.63e-03219,225,225			1.00	0.04	0.96
1455	0.02	0.04	0.0	228,229,0	0.09	0.01	0.02219,225,225	0.23	219	0.87	0.06	0.94
	9.59e-03	7.95e-03	0.0	233,233,0	0.09	4.86e-03	4.86e-03219,233,233			1.00	0.04	0.96
1465	0.02	0.05	0.0	228,231,0	0.09	0.01	0.02219,225,225	0.23	219	0.87	0.06	0.94
	0.02	0.01	0.0	225,228,0	0.09	6.89e-03	6.89e-03219,233,233			1.00	0.04	0.96
1467	0.02	0.05	0.0	230,231,0	0.09	0.01	0.02219,225,225	0.23	219	0.87	0.06	0.94
	0.02	0.01	0.0	225,228,0	0.09	6.89e-03	6.89e-03219,233,233			1.00	0.04	0.96
1569	0.0	0.03	0.0	0,100,0	0.13	6.71e-03	9.69e-03219,225,225	0.28	219	0.0	0.0	0.0
	7.70e-03	5.64e-03	0.0	211,213,0	0.13	1.27e-03	1.27e-03219,225,225			1.00	0.04	0.96
1570	0.0	0.03	0.0	0,100,0	0.14	6.14e-03	9.12e-03219,225,228	0.29	219	0.0	0.0	0.0
	0.01	8.30e-03	0.0	219,218,0	0.14	9.50e-04	9.50e-04219,225,225			1.00	0.04	0.96
1572	6.06e-03	0.03	0.0	232,229,0	0.12	4.07e-03	7.38e-03219,228,225	0.27	219	0.87	0.06	0.94
	0.01	9.44e-03	0.0	231,230,0	0.12	6.43e-03	6.43e-03219,225,225			1.00	0.04	0.96
1574	5.77e-03	0.03	0.0	228,100,0	0.12	4.07e-03	7.38e-03219,228,225	0.26	219	0.87	0.06	0.94
	0.01	9.44e-03	0.0	231,230,0	0.12	3.38e-03	3.38e-03219,233,233			1.00	0.04	0.96
1575	0.0	0.03	0.0	0,100,0	0.13	6.14e-03	8.83e-03219,225,230	0.28	219	0.0	0.0	0.0
	8.64e-03	6.17e-03	0.0	211,210,0	0.13	4.39e-04	4.39e-04219,228,228			1.00	0.04	0.96
1576	3.88e-03	0.03	0.0	237,100,0	0.14	5.87e-03	8.56e-03219,227,226	0.29	219	0.87	0.06	0.94
	0.01	0.01	0.0	219,218,0	0.14	1.18e-03	1.18e-03219,233,233			1.00	0.04	0.96
1577	0.0	0.03	0.0	0,100,0	0.13	5.87e-03	8.56e-03219,227,226	0.28	219	0.0	0.0	0.0
	0.01	7.74e-03	0.0	219,218,0	0.13	9.24e-04	9.24e-04219,228,228			1.00	0.04	0.96
1578	0.01	0.03	0.0	233,236,0	0.14	4.72e-03	7.89e-03219,227,228	0.29	219	0.87	0.06	0.94
	0.02	0.01	0.0	219,218,0	0.14	2.96e-03	2.96e-03219,235,235			1.00	0.04	0.96
1579	0.02	0.03	0.0	233,236,0	0.14	4.30e-03	8.79e-03219,228,236	0.29	219	0.87	0.06	0.94
	0.03	0.02	0.0	215,214,0	0.14	5.71e-03	5.71e-03219,235,235			1.00	0.04	0.96
1580	0.02	0.03	0.0	237,240,0	0.12	4.30e-03	7.74e-03219,228,236	0.27	219	0.87	0.06	0.94
	0.03	0.02	0.0	223,222,0	0.12	3.42e-03	3.42e-03219,235,235			1.00	0.04	0.96
1581	5.77e-03	0.02	0.0	233,100,0	0.13	4.72e-03	7.40e-03219,227,232	0.28	219	0.87	0.06	0.94
	0.01	9.74e-03	0.0	219,218,0	0.13	1.64e-03	1.64e-03219,235,235			1.00	0.04	0.96
1582	0.0	0.03	0.0	0,100,0	0.13	4.49e-03	7.03e-03219,226,229	0.28	219	0.0	0.0	0.0
	0.01	0.01	0.0	231,225,0	0.13	5.18e-03	5.18e-03219,225,225			1.00	0.04	0.96
1583	0.02	0.03	0.0	237,240,0	0.11	0.01	0.02219,235,234	0.25	219	0.87	0.06	0.94
	0.05	0.03	0.0	223,222,0	0.11	5.38e-03	5.38e-03219,239,239			1.00	0.04	0.96
1584	0.04	0.05	0.0	233,236,0	0.14	0.01	0.02219,235,234	0.29	219	0.87	0.06	0.94
	0.05	0.03	0.0	223,238,0	0.14	5.71e-03	5.71e-03219,235,235			1.00	0.04	0.96
1585	0.04	0.06	0.0	233,237,0	0.13	0.04	0.06219,235,235	0.28	219	0.87	0.06	0.94
	0.05	0.03	0.0	223,238,0	0.13	0.01	0.01219,239,239			1.00	0.04	0.96
1586	0.04	0.04	0.0	235,234,0	0.09	0.02	0.02219,235,234	0.23	219	0.87	0.06	0.94
	0.05	0.03	0.0	223,222,0	0.09	5.38e-03	5.38e-03219,239,239			1.00	0.04	0.96
1591	0.0	0.03	0.0	0,100,0	0.13	4.49e-03	6.78e-03219,226,227	0.27	219	0.0	0.0	0.0
	0.01	7.81e-03	0.0	227,209,0	0.13	1.48e-03	1.48e-03219,233,233			1.00	0.04	0.96
1593	0.0	0.03	0.0	0,100,0	0.14	5.68e-03	9.05e-03219,228,225	0.28	219	0.0	0.0	0.0
	0.01	0.01	0.0	231,225,0	0.14	1.29e-03	1.29e-03219,225,225			1.00	0.04	0.96
1594	0.0	0.03	0.0	0,100,0	0.13	5.68e-03	8.52e-03219,228,225	0.28	219	0.0	0.0	0.0
	0.01	7.81e-03	0.0	227,209,0	0.13	1.28e-03	1.28e-03219,225,225			1.00	0.04	0.96
1595	0.0	0.03	0.0	0,100,0	0.14	6.71e-03	9.86e-03219,225,225	0.29	219	0.0	0.0	0.0
	0.01	9.97e-03	0.0	231,230,0	0.14	1.38e-03	1.38e-03219,225,225			1.00	0.04	0.96
1596	0.0	0.03	0.0	0,100,0	0.13	6.71e-03	9.69e-03219,225,225	0.28	219	0.0	0.0	0.0
	8.93e-03	6.59e-03	0.0	231,230,0	0.13	1.27e-03	1.27e-03219,225,225			1.00	0.04	0.96
1597	0.02	0.05	0.0	228,231,0	0.11	0.01	0.02219,225,225	0.25	219	0.87	0.06	0.94
	0.02	0.01	0.0	225,228,0	0.11	6.89e-03	6.89e-03219,233,233			1.00	0.04	0.96
1603	0.0	0.03	0.0	0,100,0	0.14	6.71e-03	9.86e-03219,225,225	0.29	219	0.0	0.0	0.0
	0.01	7.77e-03	0.0	231,230,0	0.14	1.38e-03	1.38e-03219,225,225			1.00	0.04	0.96
1605	0.05	0.05	0.0	233,240,0	0.14	4.54e-03	0.01219,235,240	0.29	219	0.87	0.06	0.94
	0.03	0.02	0.0	236,233,0	0.14	3.92e-03	3.92e-03219,234,234			1.00	0.04	0.96
1606	7.39e-03	0.04	0.0	228,225,0	0.10	7.40e-03	0.01219,225,225	0.25	219	0.87	0.06	0.94
	0.01	9.44e-03	0.0	231,230,0	0.10	6.30e-03	6.30e-03219,225,225			1.00	0.04	0.96
1607	0.05	0.05	0.0	233,236,0	0.14	5.05e-03	0.01219,235,236	0.29	219	0.87	0.06	0.94
	0.05	0.03	0.0	223,238,0	0.14	5.71e-03	5.71e-03219,235,235			1.00	0.04	0.96
1608	0.05	0.05	0.0	233,240,0	0.13	0.01	0.02219,234,236	0.27	219	0.87	0.06	0.94
	0.03	0.02	0.0	236,233,0	0.13	0.01	0.01219,236,236			1.00	0.04	0.96
1609	0.05	0.05	0.0	233,236,0	0.13	0.01	0.02219,233,236	0.28	219	0.87	0.06	0.94
	0.05	0.03	0.0	223,238,0	0.13	0.01	0.01219,239,239			1.00	0.04	0.96
2019	0.08	0.09	0.0	237,240,0	0.10	0.03	0.04223,234,234	0.25	223	0.87	0.06	0.94
	0.08	0.07	0.0	222,223,0	0.10	0.02	0.02223,234,234			1.00	0.04	0.96
2020	0.07	0.08	0.0	237,240,0	0.10	0.03	0.04223,234,234	0.25	223	0.87	0.06	0.94
	0.07	0.06	0.0	222,223,0	0.10	0.02	0.02223,234,234			1.00	0.04	0.96
2021	0.04	0.06	0.0	221,224,0	0.07	0.01	0.02223,234,240	0.21	223	0.87	0.06	0.94
	8.07e-03	7.61e-03	0.0	219,218,0	0.07	1.73e-03	1.73e-03223,226,226			1.00	0.04	0.96
2032	0.03	0.04	0.0	233,216,0	0.07	0.01	0.02223,234,236	0.21	223	0.87	0.06	0.94

	0.01	0.01	0.0 236,238,0	0.07	0.01	0.01223,236,236			1.00	0.04	0.96
2033	0.03	0.04	0.0 234,236,0	0.08	0.01	0.02223,233,236	0.22	223	0.87	0.06	0.94
	0.02	0.02	0.0 234,235,0	0.08	0.01	0.01223,239,239			1.00	0.04	0.96
2044	0.03	0.06	0.0 240,237,0	0.08	0.04	0.06223,235,235	0.22	223	0.87	0.06	0.94
	0.04	0.03	0.0 234,235,0	0.08	0.01	0.01223,239,239			1.00	0.04	0.96
2045	0.04	0.06	0.0 235,237,0	0.05	0.04	0.06222,235,235	0.17	222	0.87	0.06	0.94
	0.04	0.03	0.0 234,235,0	0.05	7.94e-03	7.94e-03222,235,235			1.00	0.04	0.96
2049	0.06	0.08	0.0 228,225,0	0.12	0.03	0.04219,225,225	0.26	219	0.87	0.06	0.94
	0.06	0.04	0.0 225,225,0	0.12	0.03	0.03219,225,225			1.00	0.04	0.96
2050	0.06	0.08	0.0 228,225,0	0.12	0.02	0.04219,225,225	0.26	219	0.87	0.06	0.94
	0.06	0.04	0.0 225,225,0	0.12	0.03	0.03219,225,225			1.00	0.04	0.96
2051	0.06	0.08	0.0 228,225,0	0.12	0.02	0.04219,225,225	0.26	219	0.87	0.06	0.94
	0.06	0.04	0.0 225,225,0	0.12	0.03	0.03219,225,225			1.00	0.04	0.96
2052	0.02	0.05	0.0 212,209,0	0.13	6.03e-03	0.01219,233,233	0.28	219	0.87	0.06	0.94
	0.06	0.04	0.0 225,225,0	0.13	6.71e-03	6.71e-03219,225,225			1.00	0.04	0.96
2053	0.02	0.05	0.0 212,209,0	0.13	2.01e-03	8.84e-03219,226,233	0.28	219	0.87	0.06	0.94
	0.06	0.04	0.0 225,225,0	0.13	6.71e-03	6.71e-03219,225,225			1.00	0.04	0.96
2054	0.02	0.04	0.0 228,209,0	0.13	4.79e-03	0.01219,225,225	0.28	219	0.87	0.06	0.94
	0.06	0.04	0.0 225,225,0	0.13	6.49e-03	6.49e-03219,225,225			1.00	0.04	0.96
2055	4.39e-03	0.03	0.0 232,217,0	0.14	6.17e-03	9.77e-03219,225,225	0.28	219	0.87	0.06	0.94
	0.04	0.03	0.0 225,225,0	0.14	6.71e-03	6.71e-03219,225,225			1.00	0.04	0.96
2056	5.09e-03	0.03	0.0 232,100,0	0.14	3.31e-03	8.82e-03219,228,225	0.29	219	0.87	0.06	0.94
	0.04	0.03	0.0 225,225,0	0.14	6.71e-03	6.71e-03219,225,225			1.00	0.04	0.96
2057	5.09e-03	0.03	0.0 232,100,0	0.14	1.39e-03	7.56e-03219,225,225	0.29	219	0.87	0.06	0.94
	0.04	0.03	0.0 225,225,0	0.14	6.11e-03	6.11e-03219,225,225			1.00	0.04	0.96
2058	2.43e-03	0.03	0.0 228,100,0	0.14	6.41e-03	9.87e-03219,225,225	0.29	219	0.87	0.06	0.94
	0.02	0.02	0.0 230,231,0	0.14	4.84e-03	4.84e-03219,225,225			1.00	0.04	0.96
2059	4.88e-03	0.03	0.0 228,100,0	0.14	4.37e-03	9.87e-03219,225,225	0.29	219	0.87	0.06	0.94
	0.03	0.02	0.0 230,231,0	0.14	5.30e-03	5.30e-03219,225,225			1.00	0.04	0.96
2060	5.54e-03	0.03	0.0 228,100,0	0.14	1.78e-03	8.66e-03219,228,225	0.29	219	0.87	0.06	0.94
	0.03	0.02	0.0 230,231,0	0.14	5.30e-03	5.30e-03219,225,225			1.00	0.04	0.96
2061	0.0	0.04	0.0 0,100,0	0.14	6.41e-03	9.96e-03219,225,225	0.29	219	0.0	0.0	0.0
	0.01	0.01	0.0 230,231,0	0.14	2.97e-03	2.97e-03219,225,225			1.00	0.04	0.96
2062	4.87e-03	0.03	0.0 228,100,0	0.15	4.48e-03	9.96e-03219,225,225	0.29	219	0.87	0.06	0.94
	0.02	0.01	0.0 230,231,0	0.15	3.58e-03	3.58e-03219,225,225			1.00	0.04	0.96
2063	5.54e-03	0.03	0.0 228,100,0	0.15	2.34e-03	9.26e-03219,225,225	0.29	219	0.87	0.06	0.94
	0.02	0.01	0.0 228,231,0	0.15	3.58e-03	3.58e-03219,225,225			1.00	0.04	0.96
2064	0.0	0.04	0.0 0,100,0	0.14	6.20e-03	9.96e-03219,225,225	0.29	219	0.0	0.0	0.0
	0.01	0.01	0.0 222,223,0	0.14	1.49e-03	1.49e-03219,225,225			1.00	0.04	0.96
2065	0.0	0.03	0.0 0,100,0	0.15	4.48e-03	9.96e-03219,225,225	0.29	219	0.0	0.0	0.0
	0.01	0.01	0.0 222,223,0	0.15	2.16e-03	2.16e-03219,225,225			1.00	0.04	0.96
2066	0.0	0.03	0.0 0,100,0	0.15	2.34e-03	9.26e-03219,225,225	0.29	219	0.0	0.0	0.0
	0.01	9.56e-03	0.0 230,231,0	0.15	2.44e-03	2.44e-03219,225,225			1.00	0.04	0.96
2067	0.0	0.03	0.0 0,100,0	0.14	5.32e-03	8.72e-03219,227,226	0.29	219	0.0	0.0	0.0
	0.02	0.01	0.0 222,223,0	0.14	8.98e-04	8.98e-04219,231,231			1.00	0.04	0.96
2068	3.44e-03	0.03	0.0 227,100,0	0.15	3.86e-03	8.72e-03219,231,226	0.30	219	0.87	0.06	0.94
	0.02	0.01	0.0 222,223,0	0.15	1.36e-03	1.36e-03219,225,225			1.00	0.04	0.96
2069	4.70e-03	0.03	0.0 227,100,0	0.15	2.26e-03	8.35e-03219,225,228	0.30	219	0.87	0.06	0.94
	8.89e-03	7.92e-03	0.0 222,223,0	0.15	1.56e-03	1.56e-03219,225,225			1.00	0.04	0.96
2070	6.74e-03	0.03	0.0 237,100,0	0.14	5.32e-03	8.72e-03219,227,226	0.29	219	0.87	0.06	0.94
	0.02	0.02	0.0 222,223,0	0.14	5.77e-04	5.77e-04219,225,225			1.00	0.04	0.96
2071	9.37e-03	0.03	0.0 237,240,0	0.15	3.74e-03	8.72e-03219,227,226	0.30	219	0.87	0.06	0.94
	0.02	0.02	0.0 222,223,0	0.15	8.73e-04	8.73e-04219,225,225			1.00	0.04	0.96
2072	9.47e-03	0.03	0.0 237,240,0	0.15	1.94e-03	7.92e-03219,225,226	0.30	219	0.87	0.06	0.94
	9.87e-03	8.75e-03	0.0 222,223,0	0.15	9.78e-04	9.78e-04219,225,225			1.00	0.04	0.96
2073	0.02	0.03	0.0 233,236,0	0.14	5.57e-03	9.73e-03219,233,236	0.29	219	0.87	0.06	0.94
	0.03	0.03	0.0 222,223,0	0.14	1.92e-03	1.92e-03219,235,235			1.00	0.04	0.96
2074	0.02	0.03	0.0 233,236,0	0.15	3.52e-03	9.32e-03219,227,236	0.30	219	0.87	0.06	0.94
	0.03	0.03	0.0 222,223,0	0.15	1.92e-03	1.92e-03219,235,235			1.00	0.04	0.96
2075	0.02	0.03	0.0 233,236,0	0.15	1.47e-03	7.79e-03219,225,236	0.30	219	0.87	0.06	0.94
	0.01	9.84e-03	0.0 222,223,0	0.15	1.41e-03	1.41e-03219,235,235			1.00	0.04	0.96
2076	0.03	0.04	0.0 233,240,0	0.15	5.99e-03	0.01219,238,236	0.29	219	0.87	0.06	0.94
	0.04	0.04	0.0 222,223,0	0.15	4.82e-03	4.82e-03219,234,234			1.00	0.04	0.96
2077	0.03	0.04	0.0 233,240,0	0.15	3.23e-03	9.81e-03219,239,236	0.30	219	0.87	0.06	0.94
	0.04	0.04	0.0 222,223,0	0.15	4.82e-03	4.82e-03219,234,234			1.00	0.04	0.96
2078	0.03	0.04	0.0 233,236,0	0.15	1.49e-03	8.99e-03219,233,236	0.30	219	0.87	0.06	0.94
	0.01	0.01	0.0 238,239,0	0.15	2.15e-03	2.15e-03219,235,235			1.00	0.04	0.96
2079	0.05	0.06	0.0 221,224,0	0.15	7.71e-03	0.02219,234,240	0.30	219	0.87	0.06	0.94
	0.07	0.05	0.0 214,215,0	0.15	8.80e-03	8.80e-03219,234,234			1.00	0.04	0.96
2080	0.04	0.06	0.0 221,224,0	0.15	7.22e-03	0.01219,234,240	0.30	219	0.87	0.06	0.94
	0.07	0.05	0.0 214,215,0	0.15	5.07e-03	5.07e-03219,234,234			1.00	0.04	0.96
2081	0.04	0.05	0.0 237,240,0	0.15	7.22e-03	0.01219,234,240	0.30	219	0.87	0.06	0.94
	0.01	0.01	0.0 238,239,0	0.15	2.97e-03	2.97e-03219,234,234			1.00	0.04	0.96
2082	0.08	0.09	0.0 237,240,0	0.15	0.03	0.04219,234,234	0.30	219	0.87	0.06	0.94
	0.08	0.07	0.0 222,223,0	0.15	0.02	0.02219,234,234			1.00	0.04	0.96
2083	0.07	0.08	0.0 237,240,0	0.15	0.03	0.04219,234,234	0.30	219	0.87	0.06	0.94
	0.07	0.06	0.0 222,223,0	0.15	0.02	0.02219,234,234			1.00	0.04	0.96

2084	0.04	0.06	0.0 237,224,0	0.14	0.01	0.02219,234,240	0.28	219	0.87	0.06	0.94
	9.48e-03	7.61e-03	0.0 236,218,0	0.14	2.97e-03	2.97e-03219,234,234			1.00	0.04	0.96
2085	0.04	0.06	0.0 228,225,0	0.12	0.02	0.03219,225,225	0.26	219	0.87	0.06	0.94
	0.03	0.02	0.0 225,225,0	0.12	8.63e-03	8.63e-03219,225,225			1.00	0.04	0.96
2086	0.02	0.04	0.0 228,229,0	0.11	0.01	0.02219,225,225	0.26	219	0.87	0.06	0.94
	0.01	8.14e-03	0.0 225,225,0	0.11	6.43e-03	6.43e-03219,225,225			1.00	0.04	0.96
2087	0.01	0.04	0.0 212,209,0	0.13	4.79e-03	0.01219,225,225	0.28	219	0.87	0.06	0.94
	0.04	0.03	0.0 225,225,0	0.13	6.49e-03	6.49e-03219,225,225			1.00	0.04	0.96
2088	7.75e-03	0.03	0.0 220,213,0	0.13	4.29e-03	8.06e-03219,233,233	0.27	219	0.87	0.06	0.94
	0.02	0.02	0.0 228,225,0	0.13	6.43e-03	6.43e-03219,225,225			1.00	0.04	0.96
2089	4.52e-03	0.03	0.0 228,100,0	0.14	2.54e-03	7.66e-03219,225,229	0.29	219	0.87	0.06	0.94
	0.04	0.03	0.0 225,225,0	0.14	3.43e-03	3.43e-03219,225,225			1.00	0.04	0.96
2090	2.14e-03	0.03	0.0 232,100,0	0.14	3.02e-03	7.66e-03219,228,229	0.28	219	0.87	0.06	0.94
	0.02	0.02	0.0 225,225,0	0.14	5.18e-03	5.18e-03219,225,225			1.00	0.04	0.96
2091	5.54e-03	0.03	0.0 228,100,0	0.14	2.54e-03	8.67e-03219,225,225	0.29	219	0.87	0.06	0.94
	0.03	0.02	0.0 228,225,0	0.14	3.43e-03	3.43e-03219,225,225			1.00	0.04	0.96
2092	2.64e-03	0.03	0.0 228,100,0	0.14	4.13e-03	9.05e-03219,225,225	0.29	219	0.87	0.06	0.94
	0.02	0.02	0.0 225,225,0	0.14	2.49e-03	2.49e-03219,225,225			1.00	0.04	0.96
2093	5.54e-03	0.03	0.0 228,100,0	0.15	2.43e-03	8.91e-03219,225,225	0.29	219	0.87	0.06	0.94
	0.02	0.01	0.0 228,225,0	0.15	3.29e-03	3.29e-03219,225,225			1.00	0.04	0.96
2094	2.64e-03	0.03	0.0 228,100,0	0.14	4.44e-03	9.86e-03219,225,225	0.29	219	0.87	0.06	0.94
	0.02	0.01	0.0 228,225,0	0.14	2.49e-03	2.49e-03219,225,225			1.00	0.04	0.96
2095	0.0	0.03	0.0 0,100,0	0.15	2.05e-03	8.91e-03219,231,225	0.29	219	0.0	0.0	0.0
	9.82e-03	8.48e-03	0.0 230,231,0	0.15	2.44e-03	2.44e-03219,225,225			1.00	0.04	0.96
2096	0.0	0.03	0.0 0,100,0	0.15	4.44e-03	9.86e-03219,225,225	0.29	219	0.0	0.0	0.0
	0.01	8.14e-03	0.0 231,225,0	0.15	2.24e-03	2.24e-03219,225,225			1.00	0.04	0.96
2097	4.70e-03	0.03	0.0 227,100,0	0.15	1.84e-03	8.10e-03219,227,230	0.30	219	0.87	0.06	0.94
	5.36e-03	4.87e-03	0.0 212,231,0	0.15	1.56e-03	1.56e-03219,225,225			1.00	0.04	0.96
2098	3.11e-03	0.03	0.0 225,100,0	0.15	4.23e-03	9.12e-03219,225,228	0.29	219	0.87	0.06	0.94
	0.01	8.30e-03	0.0 219,218,0	0.15	1.45e-03	1.45e-03219,225,225			1.00	0.04	0.96
2099	9.47e-03	0.03	0.0 237,240,0	0.15	1.97e-03	7.68e-03219,227,232	0.30	219	0.87	0.06	0.94
	5.22e-03	4.72e-03	0.0 219,218,0	0.15	1.21e-03	1.21e-03219,225,225			1.00	0.04	0.96
2100	8.30e-03	0.03	0.0 233,236,0	0.15	3.89e-03	8.34e-03219,225,232	0.29	219	0.87	0.06	0.94
	0.01	0.01	0.0 219,218,0	0.15	1.21e-03	1.21e-03219,225,225			1.00	0.04	0.96
2101	0.02	0.03	0.0 233,236,0	0.15	2.19e-03	7.86e-03219,235,236	0.30	219	0.87	0.06	0.94
	7.31e-03	6.40e-03	0.0 216,213,0	0.15	2.89e-03	2.89e-03219,235,235			1.00	0.04	0.96
2102	0.02	0.03	0.0 233,236,0	0.15	3.39e-03	7.89e-03219,225,228	0.29	219	0.87	0.06	0.94
	0.02	0.01	0.0 219,218,0	0.15	2.96e-03	2.96e-03219,235,235			1.00	0.04	0.96
2103	0.03	0.04	0.0 233,236,0	0.15	2.19e-03	8.83e-03219,235,236	0.29	219	0.87	0.06	0.94
	0.02	0.01	0.0 236,233,0	0.15	3.92e-03	3.92e-03219,234,234			1.00	0.04	0.96
2104	0.03	0.04	0.0 233,236,0	0.14	3.24e-03	8.83e-03219,235,236	0.29	219	0.87	0.06	0.94
	0.03	0.02	0.0 215,214,0	0.14	5.71e-03	5.71e-03219,235,235			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.08	0.09	0.0	0.15	0.04	0.06	0.30

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
47	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.48	55.2	177	0.59	68.0	177	0.72	1.163e+04	1.647e+06	215

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
90	0.05	0.08	0.0	233,236,0	0.07	1.74e-03	8.32e-03	214,69,240	0.21	214	0.87	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.07	7.58e-03	7.58e-03	214,68,68			1.00	0.04	0.96
91	0.05	0.08	0.0	233,236,0	0.05	5.68e-03	9.53e-03	212,69,240	0.17	212	0.87	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.05	7.58e-03	7.58e-03	212,68,68			1.00	0.04	0.96
93	0.05	0.07	0.0	237,240,0	0.04	5.68e-03	9.53e-03	212,69,240	0.15	212	0.87	0.06	0.94
	0.02	0.01	0.0	212,209,0	0.04	3.54e-03	3.54e-03	212,68,68			1.00	0.04	0.96
146	0.04	0.06	0.0	235,234,0	0.07	6.68e-03	9.20e-03	214,69,66	0.21	214	0.87	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.07	5.45e-03	5.45e-03	214,68,68			1.00	0.04	0.96
148	0.05	0.06	0.0	215,214,0	0.05	0.01	0.01	214,69,68	0.17	214	0.87	0.06	0.94
	0.02	0.01	0.0	212,209,0	0.05	1.13e-03	1.13e-03	214,66,66			1.00	0.04	0.96
150	0.15	0.15	0.0	212,209,0	0.03	0.01	0.02209,69,209		0.14	209	0.87	0.06	0.94
	0.02	0.01	0.0	228,225,0	0.03	1.30e-03	1.30e-03	209,68,68			1.00	0.04	0.96
152	0.15	0.15	0.0	212,209,0	0.02	0.01	0.02209,69,209		0.11	209	0.87	0.06	0.94
	0.01	7.08e-03	0.0	232,229,0	0.02	1.30e-03	1.30e-03	209,68,68			1.00	0.04	0.96
1614	0.16	0.15	0.0	212,209,0	0.02	0.01	0.02	209,69,68	0.11	209	0.87	0.06	0.94
	0.17	0.11	0.0	212,209,0	0.02	2.58e-03	2.58e-03	209,236,236			1.00	0.04	0.96

1615	0.16	0.15	0.0 212,209,0	0.05	0.01	0.02 209,69,68	0.17	209	0.87	0.06	0.94
	0.17	0.11	0.0 212,209,0	0.05	2.58e-03	2.58e-03209,236,236			1.00	0.04	0.96
1616	0.18	0.17	0.0 212,209,0	0.17	0.01	0.02 212,68,68	0.31	212	0.87	0.06	0.94
	0.17	0.11	0.0 212,209,0	0.17	2.58e-03	2.58e-03212,236,236			1.00	0.04	0.96
1617	0.18	0.17	0.0 212,209,0	0.20	0.01	0.02 209,68,68	0.35	209	0.87	0.06	0.94
	0.17	0.11	0.0 212,209,0	0.20	3.08e-03	3.08e-03 209,68,68			1.00	0.04	0.96
1618	0.18	0.17	0.0 212,209,0	0.17	4.54e-03	0.02212,68,209	0.31	212	0.87	0.06	0.94
	0.12	0.08	0.0 212,209,0	0.17	2.14e-03	2.14e-03212,236,236			1.00	0.04	0.96
1619	0.18	0.17	0.0 212,209,0	0.28	4.54e-03	0.02212,68,209	0.41	212	0.87	0.06	0.94
	0.12	0.08	0.0 212,209,0	0.28	3.77e-03	3.77e-03 212,68,68			1.00	0.04	0.96
1620	0.05	0.06	0.0 215,214,0	0.07	0.01	0.01 209,69,68	0.21	209	0.87	0.06	0.94
	0.12	0.08	0.0 212,209,0	0.07	7.81e-03	7.81e-03 209,68,68			1.00	0.04	0.96
1621	0.05	0.05	0.0 215,214,0	0.20	6.41e-03	0.01 209,69,66	0.35	209	0.87	0.06	0.94
	0.12	0.08	0.0 212,209,0	0.20	0.01	0.01 209,68,68			1.00	0.04	0.96
1622	0.04	0.05	0.0 215,214,0	0.33	2.90e-03	0.01 209,69,66	0.44	209	0.87	0.06	0.94
	0.07	0.05	0.0 212,209,0	0.33	0.01	0.01 209,68,68			1.00	0.04	0.96
1623	0.04	0.06	0.0 235,234,0	0.09	6.68e-03	9.20e-03 214,69,66	0.23	214	0.87	0.06	0.94
	0.08	0.05	0.0 212,209,0	0.09	0.02	0.02 214,68,68			1.00	0.04	0.96
1624	0.03	0.05	0.0 235,234,0	0.20	2.97e-03	7.60e-03 209,69,66	0.34	209	0.87	0.06	0.94
	0.08	0.05	0.0 212,209,0	0.20	0.02	0.02 209,68,68			1.00	0.04	0.96
1625	0.03	0.04	0.0 235,234,0	0.37	1.13e-03	7.12e-03209,234,234	0.47	209	0.87	0.06	0.94
	0.07	0.05	0.0 213,68,0	0.37	0.02	0.02 209,68,68			1.00	0.04	0.96
1626	0.05	0.08	0.0 233,236,0	0.09	1.74e-03	8.32e-03214,69,240	0.23	214	0.87	0.06	0.94
	0.05	0.04	0.0 212,209,0	0.09	0.02	0.02 214,68,68			1.00	0.04	0.96
1627	0.04	0.06	0.0 233,240,0	0.18	1.57e-03	8.32e-03210,100,240	0.33	210	0.87	0.06	0.94
	0.12	0.08	0.0 209,212,0	0.18	0.02	0.02 210,68,68			1.00	0.04	0.96
1628	0.03	0.05	0.0 237,240,0	0.39	1.26e-03	7.37e-03212,100,234	0.48	212	0.87	0.06	0.94
	0.12	0.08	0.0 209,212,0	0.39	0.03	0.03 212,68,68			1.00	0.04	0.96
1629	0.12	0.12	0.0 212,209,0	0.13	5.66e-03	0.02 212,69,68	0.28	212	0.87	0.06	0.94
	0.03	0.02	0.0 209,212,0	0.13	6.63e-04	6.63e-04212,236,236			1.00	0.04	0.96
1630	0.12	0.12	0.0 212,209,0	0.28	5.66e-03	0.02 212,69,68	0.41	212	0.87	0.06	0.94
	0.03	0.02	0.0 212,209,0	0.28	3.77e-03	3.77e-03 212,68,68			1.00	0.04	0.96
1631	0.08	0.08	0.0 215,214,0	0.12	0.01	0.02 212,67,68	0.26	212	0.87	0.06	0.94
	0.04	0.03	0.0 214,215,0	0.12	4.89e-04	4.89e-04 212,68,68			1.00	0.04	0.96
1632	0.08	0.08	0.0 215,214,0	0.27	0.01	0.02 212,67,68	0.40	212	0.87	0.06	0.94
	0.04	0.03	0.0 214,215,0	0.27	3.26e-03	3.26e-03 212,68,68			1.00	0.04	0.96
1633	0.04	0.05	0.0 215,214,0	0.33	3.37e-03	0.01 209,69,66	0.44	209	0.87	0.06	0.94
	0.05	0.04	0.0 212,209,0	0.33	0.01	0.01 209,68,68			1.00	0.04	0.96
1634	0.04	0.05	0.0 215,214,0	0.32	6.83e-03	0.01 209,69,66	0.43	209	0.87	0.06	0.94
	0.05	0.04	0.0 212,209,0	0.32	0.01	0.01 209,68,68			1.00	0.04	0.96
1635	0.03	0.04	0.0 235,234,0	0.37	1.45e-03	6.68e-03 209,69,66	0.47	209	0.87	0.06	0.94
	0.09	0.06	0.0 212,209,0	0.37	0.02	0.02 209,68,68			1.00	0.04	0.96
1636	0.02	0.04	0.0 235,234,0	0.37	3.28e-03	7.36e-03 209,69,66	0.47	209	0.87	0.06	0.94
	0.10	0.07	0.0 212,209,0	0.37	0.02	0.02 209,68,68			1.00	0.04	0.96
1637	0.02	0.04	0.0 225,240,0	0.41	1.24e-03	6.88e-03212,236,234	0.49	212	0.87	0.06	0.94
	0.14	0.10	0.0 212,209,0	0.41	0.03	0.03 212,68,68			1.00	0.04	0.96
1638	0.02	0.04	0.0 225,240,0	0.41	1.82e-03	6.32e-03212,100,240	0.49	212	0.87	0.06	0.94
	0.17	0.11	0.0 212,209,0	0.41	0.03	0.03 212,68,68			1.00	0.04	0.96
1639	0.04	0.05	0.0 215,214,0	0.08	0.02	0.02 212,68,68	0.22	212	0.87	0.06	0.94
	0.06	0.04	0.0 214,215,0	0.08	9.45e-04	9.45e-04212,235,235			1.00	0.04	0.96
1640	0.04	0.05	0.0 215,214,0	0.18	0.02	0.02 209,68,68	0.33	209	0.87	0.06	0.94
	0.06	0.04	0.0 214,215,0	0.18	1.95e-03	1.95e-03 209,68,68			1.00	0.04	0.96
1641	9.50e-03	0.02	0.0 215,214,0	7.04e-03	0.02	0.02 209,68,68	0.06	209	0.87	0.06	0.94
	0.06	0.04	0.0 214,215,0	7.04e-03	9.45e-04	9.45e-04209,235,235			1.00	0.04	0.96
1642	0.03	0.03	0.0 215,214,0	0.07	0.02	0.02 209,68,68	0.21	209	0.87	0.06	0.94
	0.06	0.04	0.0 214,215,0	0.07	1.41e-03	1.41e-03 209,68,68			1.00	0.04	0.96
1643	0.04	0.04	0.0 215,214,0	0.19	0.01	0.01 209,69,66	0.33	209	0.87	0.06	0.94
	0.05	0.03	0.0 212,209,0	0.19	7.66e-03	7.66e-03 209,68,68			1.00	0.04	0.96
1644	0.03	0.03	0.0 215,214,0	0.09	0.01	0.01 209,69,66	0.23	209	0.87	0.06	0.94
	0.04	0.02	0.0 210,211,0	0.09	1.41e-03	1.41e-03 209,68,68			1.00	0.04	0.96
1645	0.02	0.03	0.0 235,234,0	0.19	6.52e-03	8.40e-03 209,69,66	0.33	209	0.87	0.06	0.94
	0.10	0.07	0.0 212,209,0	0.19	0.02	0.02 209,68,68			1.00	0.04	0.96
1646	0.02	0.03	0.0 215,214,0	0.10	6.52e-03	8.40e-03 210,69,66	0.25	210	0.87	0.06	0.94
	0.02	0.01	0.0 68,225,0	0.10	5.97e-03	5.97e-03 210,68,68			1.00	0.04	0.96
1647	0.01	0.03	0.0 209,236,0	0.18	3.10e-03	5.66e-03210,234,100	0.33	210	0.87	0.06	0.94
	0.17	0.11	0.0 212,209,0	0.18	0.02	0.02 210,68,68			1.00	0.04	0.96
1648	4.71e-03	0.02	0.0 233,236,0	0.10	3.10e-03	5.63e-03210,234,240	0.25	210	0.87	0.06	0.94
	0.03	0.02	0.0 212,209,0	0.10	7.64e-03	7.64e-03 210,68,68			1.00	0.04	0.96
1649	0.05	0.08	0.0 233,236,0	0.06	5.68e-03	0.01212,69,240	0.19	212	0.87	0.06	0.94
	0.05	0.03	0.0 68,68,0	0.06	0.02	0.02 212,68,68			1.00	0.04	0.96
1650	0.06	0.08	0.0 225,232,0	0.12	3.51e-03	0.01212,69,240	0.27	212	0.87	0.06	0.94
	0.16	0.11	0.0 209,212,0	0.12	0.02	0.02 212,68,68			1.00	0.04	0.96
1651	0.06	0.08	0.0 225,232,0	0.39	4.03e-03	0.01212,68,240	0.48	212	0.87	0.06	0.94
	0.17	0.12	0.0 209,212,0	0.39	0.03	0.03 212,68,68			1.00	0.04	0.96
1652	0.05	0.07	0.0 225,236,0	0.04	5.68e-03	0.01212,69,240	0.16	212	0.87	0.06	0.94
	0.03	0.02	0.0 212,209,0	0.04	0.01	0.01 212,68,68			1.00	0.04	0.96
1653	0.06	0.08	0.0 225,232,0	0.05	3.51e-03	0.01212,69,240	0.18	212	0.87	0.06	0.94

	0.16	0.11	0.0 209,212,0	0.05	0.02	0.02 212,68,68			1.00	0.04	0.96
1654	0.06	0.08	0.0 225,232,0	0.34	4.03e-03	0.01212,68,240	0.45	212	0.87	0.06	0.94
	0.17	0.12	0.0 209,212,0	0.34	0.02	0.02 212,68,68			1.00	0.04	0.96
1655	0.05	0.08	0.0 225,240,0	0.41	4.03e-03	0.01212,68,240	0.49	212	0.87	0.06	0.94
	0.19	0.13	0.0 212,209,0	0.41	0.03	0.03 212,68,68			1.00	0.04	0.96
1656	0.04	0.06	0.0 211,210,0	0.41	3.29e-03	9.86e-03212,92,234	0.49	212	0.87	0.06	0.94
	0.22	0.14	0.0 212,209,0	0.41	0.03	0.03 212,68,68			1.00	0.04	0.96
1657	0.05	0.08	0.0 225,240,0	0.37	4.03e-03	0.01212,68,240	0.46	212	0.87	0.06	0.94
	0.19	0.13	0.0 212,209,0	0.37	0.02	0.02 212,68,68			1.00	0.04	0.96
1658	0.04	0.06	0.0 211,210,0	0.37	3.29e-03	9.86e-03212,92,234	0.46	212	0.87	0.06	0.94
	0.22	0.14	0.0 212,209,0	0.37	0.02	0.02 212,68,68			1.00	0.04	0.96
1659	0.04	0.06	0.0 211,210,0	0.13	6.66e-03	9.86e-03212,69,234	0.28	212	0.87	0.06	0.94
	0.22	0.14	0.0 212,209,0	0.13	0.02	0.02 212,68,68			1.00	0.04	0.96
1660	0.02	0.04	0.0 215,214,0	0.08	6.66e-03	9.08e-03212,69,234	0.21	212	0.87	0.06	0.94
	0.03	0.02	0.0 212,209,0	0.08	7.64e-03	7.64e-03 212,68,68			1.00	0.04	0.96
1661	0.04	0.06	0.0 211,210,0	0.06	6.66e-03	9.86e-03212,69,234	0.19	212	0.87	0.06	0.94
	0.22	0.14	0.0 212,209,0	0.06	0.01	0.01 212,68,68			1.00	0.04	0.96
1662	0.02	0.04	0.0 215,214,0	0.06	6.66e-03	9.08e-03212,69,234	0.19	212	0.87	0.06	0.94
	0.02	0.01	0.0 212,209,0	0.06	3.96e-03	3.96e-03 212,68,68			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.22	0.17	0.0	0.41	0.03	0.03	0.49

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
48	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	NV

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
NV	0.84	-9.5	180	1.04	-11.8	180	0.07	-152.3	1.325e+04	209

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
45	0.02	0.04	0.0	235,234,0	0.03	0.03	0.03	212,65,68	0.13	212	0.87	0.06	0.94
	3.55e-03	3.62e-03	0.0	214,215,0	0.03	8.51e-04	8.51e-04	212,235,235			1.00	0.04	0.96
46	0.02	0.04	0.0	237,240,0	0.03	0.03	0.03	212,65,68	0.13	212	0.87	0.06	0.94
	3.55e-03	3.62e-03	0.0	214,215,0	0.03	8.51e-04	8.51e-04	212,235,235			1.00	0.04	0.96
48	0.02	0.04	0.0	237,240,0	0.03	0.03	0.03	212,69,68	0.13	212	0.87	0.06	0.94
	3.50e-03	3.40e-03	0.0	230,231,0	0.03	8.42e-04	8.42e-04	212,228,228			1.00	0.04	0.96
1663	0.04	0.05	0.0	69,68,0	0.03	0.03	0.04	212,69,68	0.13	212	0.87	0.06	0.94
	9.55e-03	5.77e-03	0.0	214,215,0	0.03	1.70e-03	1.70e-03	212,234,234			1.00	0.04	0.96
1664	0.04	0.06	0.0	69,240,0	0.03	0.03	0.04	212,65,68	0.13	212	0.87	0.06	0.94
	0.01	8.21e-03	0.0	212,209,0	0.03	1.70e-03	1.70e-03	212,234,234			1.00	0.04	0.96
1665	0.07	0.07	0.0	69,214,0	0.03	0.02	0.05	212,69,68	0.13	212	0.87	0.06	0.94
	0.02	0.01	0.0	236,233,0	0.03	5.19e-03	5.19e-03	212,69,69			1.00	0.04	0.96
1666	0.07	0.09	0.0	209,212,0	0.03	0.02	0.05	212,69,68	0.13	212	0.87	0.06	0.94
	0.03	0.02	0.0	214,215,0	0.03	5.83e-03	5.83e-03	212,69,69			1.00	0.04	0.96
1667	0.08	0.08	0.0	69,68,0	0.42	0.02	0.05	212,69,68	0.50	212	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.42	5.71e-03	5.71e-03	212,69,69			1.00	0.04	0.96
1668	0.08	0.09	0.0	69,212,0	0.42	0.02	0.05	212,69,68	0.50	212	0.87	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.42	6.62e-03	6.62e-03	212,69,69			1.00	0.04	0.96
1669	0.04	0.06	0.0	69,240,0	0.03	0.03	0.04	212,65,68	0.13	212	0.87	0.06	0.94
	0.01	8.21e-03	0.0	212,209,0	0.03	1.60e-03	1.60e-03	212,234,234			1.00	0.04	0.96
1670	0.07	0.09	0.0	209,212,0	0.03	0.02	0.05	212,69,68	0.12	212	0.87	0.06	0.94
	0.03	0.02	0.0	214,215,0	0.03	5.83e-03	5.83e-03	212,69,69			1.00	0.04	0.96
1671	0.08	0.09	0.0	69,212,0	0.41	0.02	0.05	212,69,68	0.49	212	0.87	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.41	6.62e-03	6.62e-03	212,69,69			1.00	0.04	0.96
1672	0.09	0.10	0.0	209,212,0	0.42	0.01	0.04	212,71,68	0.50	212	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.42	5.71e-03	5.71e-03	212,69,69			1.00	0.04	0.96
1673	0.09	0.10	0.0	209,212,0	0.42	0.01	0.04	212,71,68	0.50	212	0.87	0.06	0.94
	0.05	0.03	0.0	212,209,0	0.42	6.62e-03	6.62e-03	212,69,69			1.00	0.04	0.96
1674	0.09	0.10	0.0	209,212,0	0.42	0.02	0.04	212,69,68	0.50	212	0.87	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.42	3.24e-03	3.24e-03	212,69,69			1.00	0.04	0.96
1675	0.09	0.10	0.0	209,212,0	0.42	0.03	0.05	212,68,68	0.50	212	0.87	0.06	0.94
	0.05	0.03	0.0	212,209,0	0.42	4.16e-03	4.16e-03	212,69,69			1.00	0.04	0.96
1676	0.08	0.09	0.0	69,68,0	0.41	0.01	0.04	212,69,68	0.49	212	0.87	0.06	0.94
	0.05	0.03	0.0	212,209,0	0.41	6.62e-03	6.62e-03	212,69,69			1.00	0.04	0.96
1677	0.08	0.08	0.0	215,214,0	0.41	0.03	0.05	212,68,68	0.49	212	0.87	0.06	0.94
	0.05	0.03	0.0	212,209,0	0.41	4.16e-03	4.16e-03	212,69,69			1.00	0.04	0.96
1678	0.09	0.10	0.0	209,212,0	0.05	0.03	0.04	212,69,68	0.17	212	0.87	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.05	2.88e-03	2.88e-03	212,69,69			1.00	0.04	0.96
1679	0.09	0.10	0.0	209,212,0	0.05	0.03	0.05	212,71,68	0.17	212	0.87	0.06	0.94

	0.05	0.03	0.0	212,209,0	0.05	3.42e-03	3.42e-03	212,69,69			1.00	0.04	0.96
1680	0.04	0.05	0.0	209,212,0	0.05	0.03	0.04	212,69,68	0.17	212	0.87	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.05	1.41e-03	1.41e-03	212,68,68			1.00	0.04	0.96
1681	0.04	0.05	0.0	209,212,0	0.05	0.03	0.04	212,71,68	0.17	212	0.87	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.05	1.63e-03	1.63e-03	212,237,237			1.00	0.04	0.96
1682	0.08	0.08	0.0	215,214,0	0.04	0.03	0.05	209,71,68	0.15	209	0.87	0.06	0.94
	0.05	0.03	0.0	212,209,0	0.04	3.42e-03	3.42e-03	209,69,69			1.00	0.04	0.96
1683	0.03	0.04	0.0	215,214,0	0.04	0.03	0.04	209,71,68	0.15	209	0.87	0.06	0.94
	8.71e-03	6.26e-03	0.0	214,215,0	0.04	1.63e-03	1.63e-03	209,237,237			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.09	0.10	0.0	0.42	0.03	0.05	0.50

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
49	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.89	18.8	182	0.86	18.3	182	0.70	8367.3	-8.258e+04	237

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
21	0.12	0.12	0.0	237,240,0	0.04	0.04	0.06	214,234,234	0.15	214	0.87	0.06	0.94
	2.47e-03	3.68e-03	0.0	229,235,0	0.04	1.29e-03	1.29e-03	214,67,67			1.00	0.04	0.96
22	0.12	0.12	0.0	237,240,0	0.04	0.04	0.06	214,234,234	0.15	214	0.87	0.06	0.94
	8.31e-03	7.25e-03	0.0	69,68,0	0.04	4.06e-03	4.06e-03	214,68,68			1.00	0.04	0.96
24	0.06	0.07	0.0	237,240,0	0.03	0.02	0.02	211,69,68	0.13	211	0.87	0.06	0.94
	8.31e-03	7.25e-03	0.0	69,68,0	0.03	4.06e-03	4.06e-03	211,68,68			1.00	0.04	0.96
1684	0.06	0.07	0.0	237,240,0	0.03	0.02	0.03	211,69,68	0.13	211	0.87	0.06	0.94
	9.07e-03	7.25e-03	0.0	214,68,0	0.03	4.06e-03	4.06e-03	211,68,68			1.00	0.04	0.96
1685	0.12	0.12	0.0	237,240,0	0.04	0.04	0.06	214,234,234	0.15	214	0.87	0.06	0.94
	9.07e-03	7.25e-03	0.0	214,68,0	0.04	4.06e-03	4.06e-03	214,68,68			1.00	0.04	0.96
1686	0.06	0.07	0.0	235,234,0	0.03	0.02	0.03	215,69,68	0.14	215	0.87	0.06	0.94
	0.13	0.09	0.0	212,209,0	0.03	3.68e-03	3.68e-03	215,69,69			1.00	0.04	0.96
1687	0.08	0.08	0.0	237,240,0	0.06	0.02	0.03	214,69,68	0.19	214	0.87	0.06	0.94
	0.13	0.09	0.0	212,209,0	0.06	3.68e-03	3.68e-03	214,69,69			1.00	0.04	0.96
1688	0.06	0.07	0.0	235,234,0	0.37	0.01	0.03	212,68,68	0.47	212	0.87	0.06	0.94
	0.14	0.09	0.0	212,209,0	0.37	4.47e-03	4.47e-03	212,69,69			1.00	0.04	0.96
1689	0.06	0.07	0.0	237,240,0	0.37	0.01	0.03	212,68,68	0.47	212	0.87	0.06	0.94
	0.14	0.09	0.0	212,209,0	0.37	4.47e-03	4.47e-03	212,69,69			1.00	0.04	0.96
1690	0.12	0.12	0.0	237,240,0	0.04	0.04	0.06	214,234,234	0.15	214	0.87	0.06	0.94
	2.47e-03	3.68e-03	0.0	229,235,0	0.04	3.33e-03	3.33e-03	214,235,235			1.00	0.04	0.96
1691	0.08	0.08	0.0	237,240,0	0.06	0.01	0.02	214,234,234	0.19	214	0.87	0.06	0.94
	0.05	0.03	0.0	212,209,0	0.06	3.33e-03	3.33e-03	214,235,235			1.00	0.04	0.96
1692	0.06	0.07	0.0	237,240,0	0.32	4.42e-03	0.01	211,234,240	0.44	211	0.87	0.06	0.94
	0.05	0.03	0.0	212,209,0	0.32	9.78e-04	9.78e-04	211,68,68			1.00	0.04	0.96
1693	0.07	0.08	0.0	233,236,0	0.37	7.64e-03	0.03	212,69,68	0.47	212	0.87	0.06	0.94
	0.14	0.09	0.0	212,212,0	0.37	4.47e-03	4.47e-03	212,69,69			1.00	0.04	0.96
1694	0.07	0.08	0.0	233,236,0	0.37	7.64e-03	0.03	212,69,68	0.47	212	0.87	0.06	0.94
	0.14	0.09	0.0	212,212,0	0.37	4.47e-03	4.47e-03	212,69,69			1.00	0.04	0.96
1695	0.07	0.08	0.0	233,236,0	0.37	0.02	0.03	212,67,68	0.47	212	0.87	0.06	0.94
	0.13	0.09	0.0	209,212,0	0.37	3.09e-03	3.09e-03	212,69,69			1.00	0.04	0.96
1696	0.07	0.08	0.0	233,236,0	0.37	0.02	0.03	212,67,68	0.47	212	0.87	0.06	0.94
	0.13	0.09	0.0	209,212,0	0.37	3.09e-03	3.09e-03	212,69,69			1.00	0.04	0.96
1697	0.05	0.06	0.0	237,240,0	0.32	2.22e-03	0.01	211,234,240	0.44	211	0.87	0.06	0.94
	0.05	0.03	0.0	212,212,0	0.32	1.45e-03	1.45e-03	211,68,68			1.00	0.04	0.96
1698	0.03	0.04	0.0	235,234,0	0.29	3.67e-03	9.15e-03	215,69,66	0.42	215	0.87	0.06	0.94
	0.05	0.03	0.0	209,212,0	0.29	1.45e-03	1.45e-03	215,68,68			1.00	0.04	0.96
1699	0.07	0.07	0.0	237,240,0	0.04	0.02	0.03	215,69,68	0.15	215	0.87	0.06	0.94
	0.13	0.09	0.0	209,212,0	0.04	4.14e-03	4.14e-03	215,68,68			1.00	0.04	0.96
1700	0.07	0.07	0.0	237,240,0	0.06	0.02	0.03	214,69,68	0.20	214	0.87	0.06	0.94
	0.13	0.09	0.0	209,212,0	0.06	5.58e-03	5.58e-03	214,68,68			1.00	0.04	0.96
1701	0.04	0.05	0.0	233,236,0	0.03	0.02	0.03	212,69,68	0.14	212	0.87	0.06	0.94
	9.20e-03	8.47e-03	0.0	69,68,0	0.03	4.14e-03	4.14e-03	212,68,68			1.00	0.04	0.96
1702	0.04	0.05	0.0	233,236,0	0.03	0.02	0.03	214,69,68	0.14	214	0.87	0.06	0.94
	9.20e-03	8.47e-03	0.0	69,68,0	0.03	5.58e-03	5.58e-03	214,68,68			1.00	0.04	0.96
1703	0.02	0.03	0.0	215,214,0	0.06	6.05e-03	8.94e-03	214,69,66	0.20	214	0.87	0.06	0.94
	0.05	0.03	0.0	209,212,0	0.06	5.58e-03	5.58e-03	214,68,68			1.00	0.04	0.96
1704	8.46e-03	0.02	0.0	239,238,0	0.03	6.05e-03	8.44e-03	214,69,66	0.14	214	0.87	0.06	0.94
	1.24e-03	1.81e-03	0.0	234,235,0	0.03	5.58e-03	5.58e-03	214,68,68			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.14	0.12	0.0	0.37	0.04	0.06	0.47

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
50	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
48	6.41e-03	5.56e-03	0.0	212,209,0	0.15	7.31e-04	9.50e-04	212,68,68	0.29	212	0.56	0.09	0.91
	0.01	0.02	0.0	233,68,0	0.15	0.02	0.02	212,68,68			1.00	0.04	0.96
93	1.43e-03	1.95e-03	0.0	212,209,0	0.12	6.92e-04	8.97e-04	212,69,68	0.27	212	0.56	0.09	0.91
	0.02	0.03	0.0	237,240,0	0.12	1.83e-03	1.83e-03	212,69,69			1.00	0.04	0.96
108	1.43e-03	1.95e-03	0.0	212,209,0	0.15	1.49e-03	1.76e-03	212,68,68	0.29	212	0.56	0.09	0.91
	0.02	0.03	0.0	237,240,0	0.15	5.67e-03	5.67e-03	212,69,69			1.00	0.04	0.96
111	2.25e-03	2.54e-03	0.0	212,209,0	0.16	1.49e-03	1.76e-03	212,68,68	0.30	212	0.56	0.09	0.91
	9.76e-03	0.01	0.0	69,68,0	0.16	8.66e-03	8.66e-03	212,69,69			1.00	0.04	0.96
114	6.41e-03	5.56e-03	0.0	212,209,0	0.16	1.36e-03	1.43e-03	212,68,68	0.30	212	0.56	0.09	0.91
	0.01	0.02	0.0	233,68,0	0.16	0.02	0.02	212,68,68			1.00	0.04	0.96
1652	0.02	0.01	0.0	212,209,0	0.15	2.36e-03	3.37e-03	212,68,68	0.30	212	0.56	0.09	0.91
	0.03	0.04	0.0	209,228,0	0.15	3.59e-03	3.59e-03	212,68,68			1.00	0.04	0.96
1653	0.10	0.08	0.0	209,212,0	0.17	8.87e-03	0.01	212,69,68	0.32	212	0.56	0.09	0.91
	0.05	0.04	0.0	209,212,0	0.17	6.86e-03	6.86e-03	212,69,69			1.00	0.04	0.96
1654	0.10	0.08	0.0	209,212,0	0.17	8.87e-03	0.01	212,69,68	0.32	212	0.56	0.09	0.91
	0.05	0.04	0.0	209,212,0	0.17	6.86e-03	6.86e-03	212,69,69			1.00	0.04	0.96
1663	8.29e-03	6.22e-03	0.0	209,212,0	0.15	7.31e-04	9.50e-04	212,68,68	0.30	212	0.56	0.09	0.91
	0.03	0.03	0.0	69,68,0	0.15	0.02	0.02	212,68,68			1.00	0.04	0.96
1665	0.02	0.01	0.0	212,209,0	0.15	7.82e-03	0.01	212,69,69	0.30	212	0.56	0.09	0.91
	0.06	0.04	0.0	212,209,0	0.15	0.01	0.01	212,69,69			1.00	0.04	0.96
1667	0.02	0.01	0.0	212,209,0	0.13	7.82e-03	0.01	212,69,69	0.28	212	0.56	0.09	0.91
	0.06	0.04	0.0	212,209,0	0.13	0.01	0.01	212,69,69			1.00	0.04	0.96
1705	0.02	0.01	0.0	212,209,0	0.16	2.36e-03	3.37e-03	212,68,68	0.31	212	0.56	0.09	0.91
	0.03	0.04	0.0	209,228,0	0.16	5.67e-03	5.67e-03	212,69,69			1.00	0.04	0.96
1706	0.10	0.08	0.0	209,212,0	0.17	8.87e-03	0.01	212,69,68	0.32	212	0.56	0.09	0.91
	0.05	0.04	0.0	209,212,0	0.17	6.86e-03	6.86e-03	212,69,69			1.00	0.04	0.96
1707	0.10	0.08	0.0	209,212,0	0.17	8.87e-03	0.01	212,69,68	0.32	212	0.56	0.09	0.91
	0.05	0.04	0.0	209,212,0	0.17	6.86e-03	6.86e-03	212,69,69			1.00	0.04	0.96
1708	7.54e-03	6.28e-03	0.0	212,209,0	0.17	1.49e-03	2.29e-03	212,68,68	0.32	212	0.56	0.09	0.91
	0.02	0.02	0.0	69,68,0	0.17	8.66e-03	8.66e-03	212,69,69			1.00	0.04	0.96
1709	0.06	0.05	0.0	209,212,0	0.17	4.01e-03	0.01	212,68,68	0.32	212	0.56	0.09	0.91
	0.02	0.02	0.0	69,68,0	0.17	4.87e-03	4.87e-03	212,69,69			1.00	0.04	0.96
1710	0.06	0.05	0.0	209,212,0	0.12	4.01e-03	0.01	212,68,68	0.27	212	0.56	0.09	0.91
	0.01	0.01	0.0	209,212,0	0.12	4.87e-03	4.87e-03	212,69,69			1.00	0.04	0.96
1711	8.29e-03	6.22e-03	0.0	209,212,0	0.17	1.36e-03	2.29e-03	212,68,68	0.32	212	0.56	0.09	0.91
	0.03	0.03	0.0	69,68,0	0.17	0.02	0.02	212,68,68			1.00	0.04	0.96
1712	0.02	0.02	0.0	210,211,0	0.17	7.82e-03	0.01	212,69,69	0.32	212	0.56	0.09	0.91
	0.06	0.04	0.0	212,209,0	0.17	0.01	0.01	212,69,69			1.00	0.04	0.96
1713	0.02	0.02	0.0	210,211,0	0.13	7.82e-03	0.01	212,69,69	0.28	212	0.56	0.09	0.91
	0.06	0.04	0.0	212,209,0	0.13	0.01	0.01	212,69,69			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.10	0.08	0.0	0.17	0.02	0.02	0.32

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
51	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1677	0.03	0.02	0.0	212,209,0	0.13	5.67e-03	5.67e-03	209,68,68	0.27	209	0.33	0.14	0.86

	0.07	0.05	0.0 212,209,0	0.13	8.37e-03	8.37e-03 209,68,68			1.00	0.04	0.96
1682	0.03	0.02	0.0 212,209,0	0.16	5.67e-03	5.67e-03 209,68,68	0.30	209	0.33	0.14	0.86
	0.07	0.06	0.0 212,209,0	0.16	8.81e-03	8.81e-03 209,69,69			1.00	0.04	0.96
1683	0.01	0.01	0.0 209,212,0	0.16	5.94e-04	1.43e-03209,67,215	0.30	209	0.33	0.14	0.86
	0.07	0.06	0.0 212,209,0	0.16	8.81e-03	8.81e-03 209,69,69			1.00	0.04	0.96
1695	0.09	0.07	0.0 209,212,0	0.16	5.87e-03	1.00e-02 212,69,68	0.30	212	0.33	0.14	0.86
	0.05	0.04	0.0 209,212,0	0.16	9.82e-03	9.82e-03 212,68,68			1.00	0.04	0.96
1699	0.09	0.07	0.0 209,212,0	0.16	5.87e-03	1.00e-02 212,69,68	0.30	212	0.33	0.14	0.86
	0.07	0.06	0.0 209,212,0	0.16	9.82e-03	9.82e-03 212,68,68			1.00	0.04	0.96
1701	0.03	0.02	0.0 212,209,0	0.15	5.47e-04	2.31e-03212,69,209	0.30	212	0.33	0.14	0.86
	0.07	0.06	0.0 209,212,0	0.15	9.46e-03	9.46e-03 212,68,68			1.00	0.04	0.96
1714	0.03	0.02	0.0 212,209,0	0.16	5.67e-03	5.74e-03209,68,236	0.30	209	0.33	0.14	0.86
	0.07	0.06	0.0 212,209,0	0.16	8.81e-03	8.81e-03 209,69,69			1.00	0.04	0.96
1716	9.25e-03	6.93e-03	0.0 214,215,0	0.15	4.40e-04	1.41e-03212,234,235	0.30	212	0.33	0.14	0.86
	0.01	0.01	0.0 211,210,0	0.15	6.73e-03	6.73e-03 212,68,68			1.00	0.04	0.96
1718	0.05	0.04	0.0 209,212,0	0.15	2.05e-03	0.01 212,69,68	0.30	212	0.33	0.14	0.86
	0.02	0.01	0.0 209,212,0	0.15	2.74e-03	2.74e-03 212,68,68			1.00	0.04	0.96
1735	5.13e-03	4.10e-03	0.0 214,215,0	0.15	4.40e-04	1.41e-03212,234,235	0.30	212	0.33	0.14	0.86
	0.01	8.15e-03	0.0 209,212,0	0.15	2.74e-03	2.74e-03 212,68,68			1.00	0.04	0.96
1736	0.03	0.02	0.0 212,209,0	0.13	5.67e-03	5.74e-03209,68,236	0.27	209	0.33	0.14	0.86
	0.07	0.05	0.0 212,209,0	0.13	8.37e-03	8.37e-03 209,68,68			1.00	0.04	0.96
1737	0.09	0.07	0.0 209,212,0	0.16	5.87e-03	0.01 212,69,68	0.30	212	0.33	0.14	0.86
	0.07	0.06	0.0 209,212,0	0.16	9.82e-03	9.82e-03 212,68,68			1.00	0.04	0.96
1738	0.05	0.04	0.0 209,212,0	0.11	2.05e-03	0.01 212,69,68	0.26	212	0.33	0.14	0.86
	0.02	0.01	0.0 209,212,0	0.11	1.65e-03	1.65e-03 212,68,68			1.00	0.04	0.96
1739	4.28e-03	3.55e-03	0.0 232,229,0	0.15	2.63e-04	1.17e-03212,231,235	0.30	212	0.33	0.14	0.86
	0.02	0.01	0.0 209,212,0	0.15	7.62e-03	7.62e-03 212,68,68			1.00	0.04	0.96
1740	0.09	0.07	0.0 209,212,0	0.16	5.87e-03	0.01 212,69,68	0.30	212	0.33	0.14	0.86
	0.05	0.04	0.0 209,212,0	0.16	9.82e-03	9.82e-03 212,68,68			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.09	0.07	0.0	0.16	9.82e-03	0.01	0.30

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
52	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1658	0.13	0.09	0.0 212,209,0		0.16	6.85e-03	0.01209,68,209		0.31	209	0.33	0.14	0.86
	0.05	0.04	0.0 211,210,0		0.16	6.46e-03	6.46e-03 209,69,69				1.00	0.04	0.96
1661	0.13	0.09	0.0 212,209,0		0.16	6.85e-03	0.01212,68,209		0.31	212	0.33	0.14	0.86
	0.05	0.05	0.0 215,214,0		0.16	6.46e-03	6.46e-03 212,69,69				1.00	0.04	0.96
1662	0.02	0.01	0.0 209,212,0		0.16	3.21e-03	3.21e-03 212,68,68		0.31	212	0.33	0.14	0.86
	0.05	0.05	0.0 215,214,0		0.16	4.73e-03	4.73e-03 212,69,69				1.00	0.04	0.96
1674	5.48e-03	4.42e-03	0.0 233,236,0		0.16	4.66e-03	8.44e-03 212,69,71		0.30	212	0.33	0.14	0.86
	0.07	0.05	0.0 209,212,0		0.16	5.78e-03	5.78e-03 212,69,69				1.00	0.04	0.96
1678	0.03	0.02	0.0 212,209,0		0.19	4.66e-03	8.44e-03 212,69,71		0.34	212	0.33	0.14	0.86
	0.08	0.07	0.0 209,212,0		0.19	0.01	0.01 212,68,68				1.00	0.04	0.96
1680	0.03	0.02	0.0 212,209,0		0.19	1.78e-03	3.03e-03 212,68,68		0.34	212	0.33	0.14	0.86
	0.08	0.07	0.0 209,212,0		0.19	0.01	0.01 212,68,68				1.00	0.04	0.96
1715	0.13	0.09	0.0 212,209,0		0.16	6.85e-03	0.01209,68,209		0.31	209	0.33	0.14	0.86
	0.05	0.04	0.0 211,210,0		0.16	6.46e-03	6.46e-03 209,69,69				1.00	0.04	0.96
1717	0.08	0.06	0.0 212,209,0		0.13	3.02e-03	8.48e-03212,68,233		0.27	212	0.33	0.14	0.86
	0.02	0.01	0.0 212,209,0		0.13	1.52e-03	1.52e-03 212,71,71				1.00	0.04	0.96
1719	0.04	0.03	0.0 212,209,0		0.16	4.66e-03	8.44e-03 212,69,71		0.30	212	0.33	0.14	0.86
	0.07	0.05	0.0 209,212,0		0.16	5.78e-03	5.78e-03 212,69,69				1.00	0.04	0.96
1720	0.13	0.09	0.0 212,209,0		0.18	6.85e-03	0.01212,68,209		0.32	212	0.33	0.14	0.86
	0.05	0.05	0.0 215,214,0		0.18	6.46e-03	6.46e-03 212,69,69				1.00	0.04	0.96
1721	2.96e-03	2.18e-03	0.0 234,235,0		0.18	1.46e-03	3.09e-03212,233,66		0.32	212	0.33	0.14	0.86
	0.01	0.01	0.0 215,214,0		0.18	4.73e-03	4.73e-03 212,69,69				1.00	0.04	0.96
1722	0.08	0.06	0.0 212,209,0		0.19	3.02e-03	8.48e-03212,68,233		0.33	212	0.33	0.14	0.86
	0.02	0.01	0.0 212,209,0		0.19	2.90e-03	2.90e-03 212,68,68				1.00	0.04	0.96
1723	7.12e-03	5.33e-03	0.0 212,209,0		0.19	1.86e-03	3.41e-03 212,68,68		0.33	212	0.33	0.14	0.86
	9.53e-03	7.73e-03	0.0 215,214,0		0.19	2.90e-03	2.90e-03 212,68,68				1.00	0.04	0.96
1724	0.04	0.03	0.0 212,209,0		0.19	4.66e-03	8.44e-03 212,69,71		0.34	212	0.33	0.14	0.86
	0.08	0.07	0.0 209,212,0		0.19	0.01	0.01 212,68,68				1.00	0.04	0.96
1725	7.12e-03	5.33e-03	0.0 212,209,0		0.19	1.86e-03	3.41e-03 212,68,68		0.33	212	0.33	0.14	0.86

	0.01	0.01	0.0	209,212,0	0.19	5.71e-03	5.71e-03	212,69,69			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.13	0.09	0.0	0.19	0.01	0.01	0.34

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
53	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
24	1.63e-03	1.82e-03	0.0	212,209,0	0.13	1.14e-03	1.46e-03	212,72,68	0.28	212	0.56	0.09	0.91
	0.02	0.03	0.0	233,236,0	0.13	0.01	0.01	212,68,68			1.00	0.04	0.96
45	3.61e-03	3.31e-03	0.0	209,212,0	0.13	8.31e-04	1.08e-03	212,72,68	0.28	212	0.56	0.09	0.91
	0.01	0.02	0.0	235,68,0	0.13	0.01	0.01	212,69,69			1.00	0.04	0.96
63	1.63e-03	1.82e-03	0.0	212,209,0	0.15	1.14e-03	1.46e-03	212,72,68	0.30	212	0.56	0.09	0.91
	0.02	0.03	0.0	233,236,0	0.15	0.01	0.01	212,68,68			1.00	0.04	0.96
66	2.46e-03	2.54e-03	0.0	213,216,0	0.15	4.37e-04	1.44e-03	212,70,68	0.30	212	0.56	0.09	0.91
	0.01	0.01	0.0	69,68,0	0.15	9.37e-03	9.37e-03	212,68,68			1.00	0.04	0.96
69	3.61e-03	3.31e-03	0.0	209,212,0	0.15	8.31e-04	1.31e-03	212,72,68	0.30	212	0.56	0.09	0.91
	0.01	0.02	0.0	235,68,0	0.15	0.01	0.01	212,69,69			1.00	0.04	0.96
1669	9.67e-03	7.28e-03	0.0	212,209,0	0.15	8.71e-04	1.44e-03	212,234,233	0.29	212	0.56	0.09	0.91
	0.03	0.03	0.0	69,68,0	0.15	0.01	0.01	212,69,69			1.00	0.04	0.96
1670	0.02	0.02	0.0	214,215,0	0.15	9.18e-03	0.01	212,68,69	0.29	212	0.56	0.09	0.91
	0.06	0.05	0.0	209,212,0	0.15	0.02	0.02	212,69,69			1.00	0.04	0.96
1671	0.02	0.02	0.0	214,215,0	0.13	9.18e-03	0.01	212,68,69	0.28	212	0.56	0.09	0.91
	0.06	0.05	0.0	209,212,0	0.13	0.02	0.02	212,69,69			1.00	0.04	0.96
1684	0.01	0.01	0.0	209,212,0	0.13	1.14e-03	1.54e-03	212,72,236	0.28	212	0.56	0.09	0.91
	0.03	0.03	0.0	69,68,0	0.13	0.01	0.01	212,68,68			1.00	0.04	0.96
1686	0.09	0.07	0.0	212,209,0	0.14	9.43e-03	0.01	212,72,213	0.29	212	0.56	0.09	0.91
	0.04	0.03	0.0	215,68,0	0.14	0.02	0.02	212,68,68			1.00	0.04	0.96
1688	0.09	0.07	0.0	212,209,0	0.14	9.43e-03	0.01	212,72,213	0.29	212	0.56	0.09	0.91
	0.04	0.03	0.0	215,214,0	0.14	0.02	0.02	212,68,68			1.00	0.04	0.96
1726	9.67e-03	7.28e-03	0.0	212,209,0	0.16	8.71e-04	1.44e-03	212,234,233	0.30	212	0.56	0.09	0.91
	0.03	0.03	0.0	69,68,0	0.16	0.01	0.01	212,69,69			1.00	0.04	0.96
1727	0.02	0.02	0.0	214,215,0	0.16	9.18e-03	0.01	212,68,69	0.30	212	0.56	0.09	0.91
	0.06	0.05	0.0	209,212,0	0.16	0.02	0.02	212,69,69			1.00	0.04	0.96
1728	0.02	0.02	0.0	214,215,0	0.13	9.18e-03	0.01	212,68,69	0.28	212	0.56	0.09	0.91
	0.06	0.05	0.0	209,212,0	0.13	0.02	0.02	212,69,69			1.00	0.04	0.96
1729	4.98e-03	3.76e-03	0.0	209,212,0	0.16	4.37e-04	1.44e-03	212,70,68	0.30	212	0.56	0.09	0.91
	0.02	0.02	0.0	69,68,0	0.16	9.37e-03	9.37e-03	212,68,68			1.00	0.04	0.96
1730	0.06	0.04	0.0	212,209,0	0.16	3.23e-03	0.01	212,69,69	0.30	212	0.56	0.09	0.91
	0.02	0.02	0.0	69,68,0	0.16	5.36e-03	5.36e-03	212,68,68			1.00	0.04	0.96
1731	0.06	0.04	0.0	212,209,0	0.12	3.23e-03	0.01	212,69,69	0.26	212	0.56	0.09	0.91
	0.01	9.34e-03	0.0	212,209,0	0.12	5.36e-03	5.36e-03	212,68,68			1.00	0.04	0.96
1732	0.01	0.01	0.0	209,212,0	0.15	1.14e-03	1.54e-03	212,72,236	0.30	212	0.56	0.09	0.91
	0.03	0.03	0.0	69,68,0	0.15	0.01	0.01	212,68,68			1.00	0.04	0.96
1733	0.09	0.07	0.0	212,209,0	0.15	9.43e-03	0.01	212,72,213	0.30	212	0.56	0.09	0.91
	0.04	0.03	0.0	215,68,0	0.15	0.02	0.02	212,68,68			1.00	0.04	0.96
1734	0.09	0.07	0.0	212,209,0	0.14	9.43e-03	0.01	212,72,213	0.29	212	0.56	0.09	0.91
	0.04	0.03	0.0	215,214,0	0.14	0.02	0.02	212,68,68			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.09	0.07	0.0	0.16	0.02	0.02	0.30

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
54	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.95	227.6	202	0.82	-197.8	203	0.80	-2012.4	-4.069e+06	237

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B

21	0.08	0.09	0.0	237,240,0	0.09	0.01	0.02234,212,212	0.23	234	0.87	0.06	0.94
	6.36e-03	6.18e-03	0.0	215,214,0	0.09	7.93e-04	7.93e-04234,212,212			1.00	0.04	0.96
1053	0.08	0.09	0.0	237,240,0	0.14	0.01	0.02235,212,212	0.28	235	0.87	0.06	0.94
	0.01	8.07e-03	0.0	212,209,0	0.14	2.24e-03	2.24e-03235,212,212			1.00	0.04	0.96
1055	0.04	0.07	0.0	237,240,0	0.16	4.65e-03	0.01235,212,220	0.31	235	0.87	0.06	0.94
	0.01	8.69e-03	0.0	212,209,0	0.16	2.24e-03	2.24e-03235,212,212			1.00	0.04	0.96
1057	0.01	0.05	0.0	237,240,0	0.17	7.04e-03	0.01235,212,212	0.31	235	0.87	0.06	0.94
	0.01	8.69e-03	0.0	212,209,0	0.17	1.92e-03	1.92e-03235,212,212			1.00	0.04	0.96
1059	0.0	0.06	0.0	0,100,0	0.17	7.04e-03	0.01235,212,212	0.31	235	0.0	0.0	0.0
	6.60e-03	5.51e-03	0.0	209,212,0	0.17	1.92e-03	1.92e-03235,212,212			1.00	0.04	0.96
1061	0.0	0.06	0.0	0,100,0	0.16	6.63e-03	0.01235,212,212	0.31	235	0.0	0.0	0.0
	3.55e-03	2.92e-03	0.0	221,224,0	0.16	2.15e-03	2.15e-03235,209,209			1.00	0.04	0.96
1063	0.0	0.06	0.0	0,100,0	0.15	9.57e-03	0.02234,216,216	0.30	234	0.0	0.0	0.0
	0.03	0.02	0.0	213,214,0	0.15	0.02	0.02234,210,210			1.00	0.04	0.96
1065	0.02	0.06	0.0	237,100,0	0.23	0.01	0.02234,216,216	0.37	234	0.87	0.06	0.94
	0.03	0.02	0.0	213,216,0	0.23	0.02	0.02234,209,209			1.00	0.04	0.96
1110	0.09	0.15	0.0	234,235,0	0.32	3.66e-03	0.02235,235,235	0.43	235	0.87	0.06	0.94
	0.03	0.03	0.0	234,235,0	0.32	0.01	0.01235,216,216			1.00	0.04	0.96
1690	0.08	0.09	0.0	237,240,0	0.09	0.02	0.03235,212,212	0.23	235	0.87	0.06	0.94
	0.02	0.01	0.0	212,209,0	0.09	0.01	0.01235,212,212			1.00	0.04	0.96
1691	0.08	0.08	0.0	237,240,0	0.09	0.02	0.03235,212,212	0.23	235	0.87	0.06	0.94
	0.04	0.03	0.0	212,212,0	0.09	0.03	0.03235,212,212			1.00	0.04	0.96
1692	0.08	0.08	0.0	217,224,0	0.09	0.04	0.06235,212,212	0.23	235	0.87	0.06	0.94
	0.04	0.03	0.0	212,212,0	0.09	0.03	0.03235,212,212			1.00	0.04	0.96
1697	0.05	0.06	0.0	237,240,0	0.09	0.04	0.06235,212,212	0.23	235	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.09	0.02	0.02235,212,212			1.00	0.04	0.96
1698	0.04	0.05	0.0	215,214,0	0.09	0.04	0.05235,212,212	0.23	235	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.09	0.02	0.02235,212,212			1.00	0.04	0.96
1703	0.04	0.06	0.0	212,209,0	0.09	0.04	0.05235,212,209	0.23	235	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.09	0.02	0.02235,212,212			1.00	0.04	0.96
1704	0.04	0.06	0.0	212,209,0	0.09	0.04	0.05235,212,209	0.23	235	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.09	4.43e-03	4.43e-03235,212,212			1.00	0.04	0.96
1741	0.08	0.09	0.0	237,240,0	0.14	0.02	0.03235,212,212	0.29	235	0.87	0.06	0.94
	0.04	0.03	0.0	212,212,0	0.14	0.01	0.01235,212,212			1.00	0.04	0.96
1742	0.08	0.08	0.0	237,240,0	0.14	0.02	0.03235,212,212	0.29	235	0.87	0.06	0.94
	0.06	0.05	0.0	209,212,0	0.14	0.03	0.03235,212,212			1.00	0.04	0.96
1743	0.08	0.08	0.0	217,224,0	0.14	0.04	0.06235,212,212	0.29	235	0.87	0.06	0.94
	0.06	0.05	0.0	209,212,0	0.14	0.03	0.03235,212,212			1.00	0.04	0.96
1744	0.04	0.07	0.0	237,240,0	0.16	4.65e-03	0.01235,212,220	0.31	235	0.87	0.06	0.94
	0.04	0.03	0.0	212,212,0	0.16	5.54e-03	5.54e-03235,212,212			1.00	0.04	0.96
1745	0.04	0.06	0.0	237,240,0	0.16	4.67e-03	0.01235,212,212	0.31	235	0.87	0.06	0.94
	0.06	0.05	0.0	209,212,0	0.16	8.80e-03	8.80e-03235,212,212			1.00	0.04	0.96
1746	0.03	0.06	0.0	237,240,0	0.16	4.67e-03	0.01235,212,212	0.31	235	0.87	0.06	0.94
	0.06	0.05	0.0	209,212,0	0.16	8.80e-03	8.80e-03235,212,212			1.00	0.04	0.96
1747	0.01	0.05	0.0	237,240,0	0.17	7.04e-03	0.01235,212,212	0.31	235	0.87	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.17	5.54e-03	5.54e-03235,212,212			1.00	0.04	0.96
1748	0.01	0.05	0.0	221,240,0	0.17	4.81e-03	0.01235,212,212	0.31	235	0.87	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.17	8.80e-03	8.80e-03235,212,212			1.00	0.04	0.96
1749	0.01	0.05	0.0	221,224,0	0.17	2.41e-03	9.92e-03235,212,212	0.31	235	0.87	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.17	8.80e-03	8.80e-03235,212,212			1.00	0.04	0.96
1750	2.16e-03	0.06	0.0	209,100,0	0.17	7.04e-03	0.01235,212,212	0.31	235	0.87	0.06	0.94
	0.02	0.01	0.0	209,212,0	0.17	4.68e-03	4.68e-03235,212,212			1.00	0.04	0.96
1751	5.66e-03	0.05	0.0	209,100,0	0.17	4.81e-03	0.01235,212,212	0.31	235	0.87	0.06	0.94
	0.02	0.01	0.0	209,212,0	0.17	4.73e-03	4.73e-03235,212,212			1.00	0.04	0.96
1752	5.66e-03	0.05	0.0	209,100,0	0.17	2.25e-03	0.01235,211,215	0.31	235	0.87	0.06	0.94
	0.02	0.01	0.0	209,212,0	0.17	4.73e-03	4.73e-03235,212,212			1.00	0.04	0.96
1753	0.0	0.06	0.0	0,100,0	0.16	6.63e-03	0.01235,212,215	0.31	235	0.0	0.0	0.0
	5.91e-03	6.11e-03	0.0	213,212,0	0.16	3.02e-03	3.02e-03235,209,209			1.00	0.04	0.96
1754	0.0	0.06	0.0	0,100,0	0.16	5.44e-03	0.01235,215,215	0.31	235	0.0	0.0	0.0
	7.10e-03	7.74e-03	0.0	209,212,0	0.16	3.02e-03	3.02e-03235,209,209			1.00	0.04	0.96
1755	3.99e-03	0.06	0.0	214,100,0	0.16	2.48e-03	0.01235,211,215	0.31	235	0.87	0.06	0.94
	8.02e-03	8.84e-03	0.0	215,212,0	0.16	2.60e-03	2.60e-03235,209,209			1.00	0.04	0.96
1756	4.76e-03	0.06	0.0	213,100,0	0.15	9.57e-03	0.02234,216,216	0.30	234	0.87	0.06	0.94
	0.03	0.02	0.0	213,214,0	0.15	0.02	0.02234,210,210			1.00	0.04	0.96
1757	6.28e-03	0.06	0.0	213,100,0	0.16	5.44e-03	0.01234,215,215	0.31	234	0.87	0.06	0.94
	9.11e-03	8.36e-03	0.0	214,215,0	0.16	3.02e-03	3.02e-03234,209,209			1.00	0.04	0.96
1758	6.85e-03	0.06	0.0	209,100,0	0.17	2.48e-03	0.01234,211,215	0.31	234	0.87	0.06	0.94
	6.13e-03	9.59e-03	0.0	215,211,0	0.17	2.19e-03	2.19e-03234,215,215			1.00	0.04	0.96
1759	0.02	0.06	0.0	237,100,0	0.23	0.01	0.02234,216,216	0.37	234	0.87	0.06	0.94
	0.03	0.02	0.0	213,216,0	0.23	0.02	0.02234,209,209			1.00	0.04	0.96
1760	0.02	0.05	0.0	237,100,0	0.21	4.02e-03	0.01234,211,216	0.36	234	0.87	0.06	0.94
	9.11e-03	0.01	0.0	214,215,0	0.21	4.32e-03	4.32e-03234,211,211			1.00	0.04	0.96
1761	0.02	0.05	0.0	221,100,0	0.21	9.59e-04	0.01234,209,212	0.35	234	0.87	0.06	0.94
	8.79e-03	0.01	0.0	214,215,0	0.21	2.19e-03	2.19e-03234,215,215			1.00	0.04	0.96
1762	0.05	0.06	0.0	237,240,0	0.14	0.04	0.06235,212,212	0.28	235	0.87	0.06	0.94
	0.04	0.03	0.0	212,212,0	0.14	0.02	0.02235,212,212			1.00	0.04	0.96

1763	0.04	0.05	0.0 215,240,0	0.13	0.04	0.05235,212,212	0.28	235	0.87	0.06	0.94
	0.04	0.03	0.0 212,209,0	0.13	0.02	0.02235,212,212			1.00	0.04	0.96
1764	0.03	0.05	0.0 237,240,0	0.16	3.94e-03	9.57e-03235,212,216	0.30	235	0.87	0.06	0.94
	0.04	0.03	0.0 212,212,0	0.16	0.01	0.01235,212,212			1.00	0.04	0.96
1765	0.03	0.05	0.0 237,240,0	0.15	3.44e-03	9.57e-03235,212,216	0.30	235	0.87	0.06	0.94
	0.04	0.03	0.0 212,209,0	0.15	0.01	0.01235,212,212			1.00	0.04	0.96
1766	0.01	0.05	0.0 221,224,0	0.16	3.44e-03	0.01235,212,212	0.31	235	0.87	0.06	0.94
	0.02	0.02	0.0 209,212,0	0.16	5.05e-03	5.05e-03235,212,212			1.00	0.04	0.96
1767	7.49e-03	0.04	0.0 221,100,0	0.16	3.81e-03	0.01235,211,212	0.31	235	0.87	0.06	0.94
	0.01	0.01	0.0 215,214,0	0.16	9.82e-03	9.82e-03235,212,212			1.00	0.04	0.96
1768	4.92e-03	0.05	0.0 213,100,0	0.16	3.33e-03	0.01235,212,215	0.31	235	0.87	0.06	0.94
	0.01	0.01	0.0 209,214,0	0.16	2.20e-03	2.20e-03235,209,209			1.00	0.04	0.96
1769	2.07e-03	0.05	0.0 213,100,0	0.16	4.10e-03	0.01235,212,211	0.31	235	0.87	0.06	0.94
	0.01	0.02	0.0 235,214,0	0.16	3.08e-03	3.08e-03235,212,212			1.00	0.04	0.96
1770	3.99e-03	0.05	0.0 214,100,0	0.16	2.65e-03	0.01235,215,215	0.31	235	0.87	0.06	0.94
	0.01	0.01	0.0 215,214,0	0.16	1.39e-03	1.39e-03235,209,209			1.00	0.04	0.96
1771	0.0	0.05	0.0 0,100,0	0.16	4.65e-03	0.01235,211,215	0.31	235	0.0	0.0	0.0
	0.02	0.02	0.0 235,234,0	0.16	9.04e-04	9.04e-04235,211,211			1.00	0.04	0.96
1772	6.85e-03	0.05	0.0 209,100,0	0.17	2.65e-03	0.01234,215,215	0.31	234	0.87	0.06	0.94
	0.01	0.01	0.0 215,214,0	0.17	1.54e-03	1.54e-03234,215,215			1.00	0.04	0.96
1773	4.67e-03	0.05	0.0 209,100,0	0.16	4.65e-03	0.01234,211,215	0.31	234	0.87	0.06	0.94
	0.02	0.02	0.0 235,234,0	0.16	9.58e-04	9.58e-04234,211,211			1.00	0.04	0.96
1774	0.01	0.05	0.0 221,212,0	0.20	2.61e-03	0.01234,211,212	0.34	234	0.87	0.06	0.94
	0.01	0.01	0.0 235,224,0	0.20	1.54e-03	1.54e-03234,215,215			1.00	0.04	0.96
1775	0.01	0.04	0.0 213,100,0	0.19	4.56e-03	0.01234,211,212	0.34	234	0.87	0.06	0.94
	0.03	0.03	0.0 235,234,0	0.19	1.13e-03	1.13e-03234,213,213			1.00	0.04	0.96
1776	0.04	0.06	0.0 212,209,0	0.12	0.04	0.05235,212,209	0.27	235	0.87	0.06	0.94
	0.04	0.03	0.0 212,209,0	0.12	0.02	0.02235,212,212			1.00	0.04	0.96
1777	0.02	0.04	0.0 237,240,0	0.12	0.02	0.02235,212,212	0.26	235	0.87	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.12	2.07e-03	2.07e-03235,212,212			1.00	0.04	0.96
1778	0.03	0.05	0.0 237,240,0	0.14	9.95e-03	0.02235,212,212	0.29	235	0.87	0.06	0.94
	0.04	0.03	0.0 212,209,0	0.14	0.01	0.01235,212,212			1.00	0.04	0.96
1779	0.02	0.04	0.0 237,240,0	0.13	9.95e-03	0.02235,212,212	0.28	235	0.87	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.13	4.12e-03	4.12e-03235,212,212			1.00	0.04	0.96
1780	4.28e-03	0.04	0.0 237,100,0	0.15	4.28e-03	9.26e-03235,211,211	0.30	235	0.87	0.06	0.94
	0.01	0.01	0.0 215,214,0	0.15	9.82e-03	9.82e-03235,212,212			1.00	0.04	0.96
1781	3.89e-03	0.04	0.0 237,100,0	0.14	4.28e-03	7.85e-03235,211,211	0.29	235	0.87	0.06	0.94
	0.01	8.39e-03	0.0 215,214,0	0.14	4.12e-03	4.12e-03235,212,212			1.00	0.04	0.96
1782	0.0	0.05	0.0 0,100,0	0.15	6.50e-03	0.01235,211,211	0.30	235	0.0	0.0	0.0
	0.01	0.02	0.0 235,214,0	0.15	3.08e-03	3.08e-03235,212,212			1.00	0.04	0.96
1783	0.0	0.04	0.0 0,100,0	0.14	6.50e-03	0.01235,211,211	0.29	235	0.0	0.0	0.0
	0.01	0.01	0.0 215,214,0	0.14	7.86e-04	7.86e-04235,225,225			1.00	0.04	0.96
1784	0.0	0.05	0.0 0,100,0	0.15	6.50e-03	0.01235,211,215	0.30	235	0.0	0.0	0.0
	0.02	0.02	0.0 235,234,0	0.15	1.98e-03	1.98e-03235,211,211			1.00	0.04	0.96
1785	0.0	0.04	0.0 0,100,0	0.14	6.50e-03	0.01235,211,211	0.29	235	0.0	0.0	0.0
	0.02	0.01	0.0 215,214,0	0.14	1.98e-03	1.98e-03235,211,211			1.00	0.04	0.96
1786	0.0	0.05	0.0 0,100,0	0.15	6.40e-03	0.01234,216,215	0.30	234	0.0	0.0	0.0
	0.02	0.02	0.0 235,234,0	0.15	2.70e-03	2.70e-03234,210,210			1.00	0.04	0.96
1787	0.0	0.04	0.0 0,100,0	0.13	6.40e-03	0.01235,216,212	0.28	235	0.0	0.0	0.0
	0.02	0.02	0.0 235,234,0	0.13	2.70e-03	2.70e-03235,210,210			1.00	0.04	0.96
1788	6.67e-03	0.04	0.0 221,100,0	0.17	6.48e-03	0.01234,211,216	0.32	234	0.87	0.06	0.94
	0.03	0.03	0.0 235,234,0	0.17	2.70e-03	2.70e-03234,210,210			1.00	0.04	0.96
1789	1.95e-03	0.04	0.0 237,100,0	0.13	6.48e-03	0.01234,211,216	0.28	234	0.87	0.06	0.94
	0.02	0.02	0.0 235,234,0	0.13	2.70e-03	2.70e-03234,210,210			1.00	0.04	0.96
1790	0.02	0.03	0.0 99,240,0	0.23	0.01	0.01234,216,216	0.37	234	0.87	0.06	0.94
	0.04	0.03	0.0 213,216,0	0.23	0.02	0.02234,209,209			1.00	0.04	0.96
1791	0.02	0.03	0.0 99,240,0	0.23	0.01	0.01234,216,216	0.37	234	0.87	0.06	0.94
	0.04	0.03	0.0 213,216,0	0.23	0.02	0.02234,209,209			1.00	0.04	0.96
1792	0.02	0.03	0.0 99,240,0	0.21	4.31e-03	9.82e-03234,209,216	0.36	234	0.87	0.06	0.94
	0.02	0.03	0.0 214,215,0	0.21	8.21e-03	8.21e-03234,209,209			1.00	0.04	0.96
1793	0.02	0.03	0.0 213,240,0	0.21	2.46e-03	7.65e-03234,209,212	0.35	234	0.87	0.06	0.94
	0.01	0.02	0.0 214,215,0	0.21	2.62e-03	2.62e-03234,211,211			1.00	0.04	0.96
1794	0.03	0.0	0.0 99,0,0	0.19	4.31e-03	4.31e-03234,209,209	0.33	234	0.87	0.06	0.94
	0.06	0.05	0.0 214,215,0	0.19	0.02	0.02234,209,209			1.00	0.04	0.96
1795	0.03	0.0	0.0 99,0,0	0.18	3.85e-03	3.85e-03234,211,211	0.33	234	0.87	0.06	0.94
	0.06	0.05	0.0 214,215,0	0.18	0.02	0.02234,209,209			1.00	0.04	0.96
1796	0.02	4.23e-03	0.0 99,214,0	0.19	4.31e-03	4.31e-03234,209,209	0.34	234	0.87	0.06	0.94
	0.04	0.04	0.0 214,215,0	0.19	8.21e-03	8.21e-03234,209,209			1.00	0.04	0.96
1797	0.02	6.83e-03	0.0 99,214,0	0.19	2.66e-03	2.66e-03234,209,209	0.34	234	0.87	0.06	0.94
	0.02	0.03	0.0 214,215,0	0.19	2.62e-03	2.62e-03234,211,211			1.00	0.04	0.96
1798	0.03	0.02	0.0 99,214,0	0.20	3.85e-03	3.85e-03235,211,211	0.34	235	0.87	0.06	0.94
	0.06	0.05	0.0 214,215,0	0.20	0.01	0.01235,210,210			1.00	0.04	0.96
1799	0.03	0.02	0.0 99,214,0	0.18	3.85e-03	3.85e-03235,211,211	0.32	235	0.87	0.06	0.94
	0.06	0.05	0.0 214,215,0	0.18	0.01	0.01235,210,210			1.00	0.04	0.96
1800	0.02	0.02	0.0 99,107,0	0.20	2.66e-03	4.34e-03235,209,221	0.34	235	0.87	0.06	0.94
	0.04	0.04	0.0 214,215,0	0.20	4.54e-03	4.54e-03235,216,216			1.00	0.04	0.96
1801	0.02	0.02	0.0 99,107,0	0.20	2.66e-03	5.21e-03235,209,221	0.34	235	0.87	0.06	0.94

	0.02	0.03	0.0 214,215,0	0.20	2.98e-03	2.98e-03235,215,215			1.00	0.04	0.96
1802	0.09	0.15	0.0 234,235,0	0.32	3.66e-03	0.02235,235,235	0.43	235	0.87	0.06	0.94
	0.05	0.04	0.0 214,215,0	0.32	0.01	0.01235,210,210			1.00	0.04	0.96
1803	0.09	0.15	0.0 234,235,0	0.32	3.66e-03	0.02235,235,235	0.43	235	0.87	0.06	0.94
	0.05	0.04	0.0 214,215,0	0.32	0.01	0.01235,210,210			1.00	0.04	0.96
1804	0.07	0.14	0.0 234,235,0	0.24	2.00e-03	0.02235,221,235	0.38	235	0.87	0.06	0.94
	0.04	0.04	0.0 214,215,0	0.24	0.01	0.01235,211,211			1.00	0.04	0.96
1805	0.04	0.12	0.0 234,235,0	0.20	2.87e-03	0.01235,222,235	0.34	235	0.87	0.06	0.94
	0.02	0.03	0.0 214,215,0	0.20	7.96e-03	7.96e-03235,211,211			1.00	0.04	0.96
1806	0.09	0.15	0.0 234,235,0	0.32	3.66e-03	0.02235,235,235	0.43	235	0.87	0.06	0.94
	0.03	0.03	0.0 234,235,0	0.32	0.01	0.01235,211,211			1.00	0.04	0.96
1807	0.07	0.14	0.0 234,235,0	0.24	1.70e-03	0.02235,218,235	0.38	235	0.87	0.06	0.94
	0.01	0.02	0.0 214,215,0	0.24	0.01	0.01235,211,211			1.00	0.04	0.96
1808	0.04	0.12	0.0 234,235,0	0.17	2.87e-03	0.01237,222,235	0.31	237	0.87	0.06	0.94
	0.01	0.01	0.0 214,215,0	0.17	7.96e-03	7.96e-03237,211,211			1.00	0.04	0.96
1809	0.02	0.03	0.0 213,224,0	0.20	2.29e-03	8.54e-03234,209,212	0.34	234	0.87	0.06	0.94
	0.01	0.02	0.0 235,100,0	0.20	1.40e-03	1.40e-03234,221,221			1.00	0.04	0.96
1810	0.01	0.03	0.0 213,224,0	0.19	3.94e-03	8.66e-03234,212,216	0.34	234	0.87	0.06	0.94
	0.04	0.04	0.0 235,234,0	0.19	2.03e-03	2.03e-03234,221,221			1.00	0.04	0.96
1811	0.02	7.46e-03	0.0 99,214,0	0.19	1.74e-03	3.42e-03234,209,214	0.34	234	0.87	0.06	0.94
	0.01	0.02	0.0 235,100,0	0.19	1.40e-03	1.40e-03234,221,221			1.00	0.04	0.96
1812	0.02	7.46e-03	0.0 212,214,0	0.19	3.34e-03	5.68e-03234,209,214	0.34	234	0.87	0.06	0.94
	0.05	0.05	0.0 235,234,0	0.19	3.98e-03	3.98e-03234,221,221			1.00	0.04	0.96
1813	0.02	0.02	0.0 99,107,0	0.19	2.18e-03	5.62e-03235,209,221	0.34	235	0.87	0.06	0.94
	0.01	0.02	0.0 214,100,0	0.19	3.71e-03	3.71e-03235,237,237			1.00	0.04	0.96
1814	0.02	0.02	0.0 212,107,0	0.21	4.10e-03	7.91e-03235,221,221	0.35	235	0.87	0.06	0.94
	0.08	0.07	0.0 237,234,0	0.21	3.98e-03	3.98e-03235,221,221			1.00	0.04	0.96
1815	0.02	0.11	0.0 234,100,0	0.19	4.30e-03	0.02235,221,100	0.34	235	0.87	0.06	0.94
	0.01	0.02	0.0 214,215,0	0.19	5.48e-03	5.48e-03235,211,211			1.00	0.04	0.96
1816	4.77e-03	0.12	0.0 221,100,0	0.21	0.02	0.03235,221,221	0.35	235	0.87	0.06	0.94
	0.08	0.07	0.0 237,234,0	0.21	0.01	0.01235,100,100			1.00	0.04	0.96
1817	0.02	0.11	0.0 234,100,0	0.15	4.30e-03	0.02233,221,100	0.30	233	0.87	0.06	0.94
	5.22e-03	0.01	0.0 236,233,0	0.15	5.48e-03	5.48e-03233,211,211			1.00	0.04	0.96
1818	5.10e-04	0.12	0.0 234,100,0	0.16	0.02	0.03236,221,221	0.30	236	0.87	0.06	0.94
	0.07	0.06	0.0 235,234,0	0.16	0.01	0.01236,100,100			1.00	0.04	0.96
1819	0.01	0.02	0.0 215,224,0	0.18	6.48e-03	8.92e-03234,211,211	0.32	234	0.87	0.06	0.94
	0.04	0.04	0.0 235,234,0	0.18	2.03e-03	2.03e-03234,221,221			1.00	0.04	0.96
1820	5.47e-03	0.02	0.0 235,240,0	0.13	6.48e-03	8.92e-03234,211,211	0.28	234	0.87	0.06	0.94
	0.03	0.03	0.0 235,234,0	0.13	1.47e-03	1.47e-03234,100,100			1.00	0.04	0.96
1821	0.01	6.86e-03	0.0 212,214,0	0.18	4.83e-03	6.01e-03235,211,216	0.33	235	0.87	0.06	0.94
	0.05	0.05	0.0 235,234,0	0.18	3.98e-03	3.98e-03235,221,221			1.00	0.04	0.96
1822	7.07e-03	6.69e-03	0.0 212,234,0	0.13	4.83e-03	6.01e-03235,211,216	0.27	235	0.87	0.06	0.94
	0.05	0.04	0.0 235,234,0	0.13	3.42e-03	3.42e-03235,100,100			1.00	0.04	0.96
1823	0.01	0.02	0.0 212,107,0	0.21	6.75e-03	8.59e-03235,221,221	0.35	235	0.87	0.06	0.94
	0.08	0.07	0.0 237,234,0	0.21	6.83e-03	6.83e-03235,221,221			1.00	0.04	0.96
1824	7.07e-03	0.02	0.0 212,107,0	0.12	6.75e-03	8.59e-03235,221,221	0.27	235	0.87	0.06	0.94
	0.08	0.06	0.0 237,234,0	0.12	6.83e-03	6.83e-03235,221,221			1.00	0.04	0.96
1825	2.91e-03	0.23	0.0 217,100,0	0.21	0.03	0.06235,100,100	0.35	235	0.87	0.06	0.94
	0.16	0.13	0.0 237,240,0	0.21	0.01	0.01235,221,221			1.00	0.04	0.96
1826	1.97e-03	0.05	0.0 237,100,0	0.11	0.01	0.02235,221,100	0.25	235	0.87	0.06	0.94
	0.08	0.06	0.0 237,234,0	0.11	6.83e-03	6.83e-03235,221,221			1.00	0.04	0.96
1827	0.0	0.23	0.0 0,100,0	0.16	0.03	0.06236,100,100	0.30	236	0.0	0.0	0.0
	0.16	0.13	0.0 237,240,0	0.16	0.01	0.01236,221,221			1.00	0.04	0.96
1828	0.0	0.23	0.0 0,100,0	0.04	0.03	0.06235,100,100	0.16	235	0.0	0.0	0.0
	0.16	0.13	0.0 237,240,0	0.04	0.01	0.01235,221,221			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.16	0.23	0.0	0.32	0.04	0.06	0.43

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
55	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.79	45.6	189	0.33	19.1	189	0.81	4026.8	-6.086e+05	234

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1110	0.18	0.28	0.0	234,235,0	0.08	0.05	0.12221,235,235		0.21	221	0.87	0.06	0.94
	0.01	0.02	0.0	211,210,0	0.08	0.01	0.01221,216,216				1.00	0.04	0.96
1147	0.18	0.28	0.0	234,235,0	0.11	0.05	0.12221,235,235		0.25	221	0.87	0.06	0.94

	0.01	0.02	0.0 211,210,0	0.11	0.01	0.01221,216,216			1.00	0.04	0.96
1149	0.02	0.11	0.0 224,100,0	0.11	0.01	0.03221,235,235	0.25	221	0.87	0.06	0.94
	0.0	0.01	0.0 0,100,0	0.11	1.97e-03	1.97e-03221,213,213			0.0	0.0	0.0
1151	0.05	0.11	0.0 224,221,0	0.08	6.47e-03	0.02217,234,237	0.21	217	0.87	0.06	0.94
	0.0	9.26e-03	0.0 0,100,0	0.08	1.46e-03	1.46e-03217,233,233			0.0	0.0	0.0
1153	0.05	0.11	0.0 224,221,0	0.01	5.73e-03	0.02221,235,237	0.09	221	0.87	0.06	0.94
	0.0	9.00e-03	0.0 0,100,0	0.01	1.02e-03	1.02e-03221,239,239			0.0	0.0	0.0
1806	0.18	0.28	0.0 234,235,0	0.08	0.05	0.12221,235,235	0.21	221	0.87	0.06	0.94
	0.01	0.02	0.0 211,210,0	0.08	0.01	0.01221,216,216			1.00	0.04	0.96
1807	0.10	0.21	0.0 234,235,0	0.08	0.02	0.05221,235,235	0.21	221	0.87	0.06	0.94
	2.95e-03	6.67e-03	0.0 240,213,0	0.08	5.02e-03	5.02e-03221,237,237			1.00	0.04	0.96
1808	0.06	0.18	0.0 234,235,0	0.08	5.10e-03	0.03221,235,235	0.21	221	0.87	0.06	0.94
	5.30e-03	4.56e-03	0.0 240,237,0	0.08	4.15e-03	4.15e-03221,240,240			1.00	0.04	0.96
1817	0.03	0.16	0.0 234,235,0	0.08	3.92e-03	0.02221,234,235	0.21	221	0.87	0.06	0.94
	8.29e-03	0.01	0.0 237,240,0	0.08	8.17e-03	8.17e-03221,240,240			1.00	0.04	0.96
1818	0.02	0.15	0.0 234,100,0	0.10	0.03	0.04221,234,235	0.24	221	0.87	0.06	0.94
	0.03	0.05	0.0 224,237,0	0.10	0.01	0.01221,234,234			1.00	0.04	0.96
1827	0.01	0.15	0.0 240,100,0	0.10	0.03	0.04221,234,235	0.24	221	0.87	0.06	0.94
	0.04	0.06	0.0 240,237,0	0.10	0.02	0.02221,234,234			1.00	0.04	0.96
1828	0.01	0.13	0.0 240,100,0	0.01	0.03	0.04221,234,234	0.08	221	0.87	0.06	0.94
	0.04	0.06	0.0 240,237,0	0.01	0.02	0.02221,234,234			1.00	0.04	0.96
1829	0.18	0.28	0.0 234,235,0	0.11	0.05	0.12221,235,235	0.25	221	0.87	0.06	0.94
	0.01	0.02	0.0 211,210,0	0.11	0.01	0.01221,216,216			1.00	0.04	0.96
1830	0.10	0.21	0.0 234,235,0	0.11	0.02	0.05217,235,235	0.25	217	0.87	0.06	0.94
	6.98e-03	6.94e-03	0.0 236,235,0	0.11	5.02e-03	5.02e-03217,237,237			1.00	0.04	0.96
1831	0.06	0.18	0.0 234,235,0	0.10	5.10e-03	0.03217,235,235	0.25	217	0.87	0.06	0.94
	8.40e-03	6.96e-03	0.0 236,233,0	0.10	4.15e-03	4.15e-03217,240,240			1.00	0.04	0.96
1832	0.02	0.11	0.0 224,100,0	0.11	0.01	0.03221,235,235	0.25	221	0.87	0.06	0.94
	4.11e-03	0.01	0.0 234,100,0	0.11	2.48e-03	2.48e-03221,235,235			1.00	0.04	0.96
1833	0.02	0.10	0.0 240,100,0	0.11	3.36e-03	0.01217,240,237	0.25	217	0.87	0.06	0.94
	6.98e-03	7.46e-03	0.0 236,235,0	0.11	2.48e-03	2.48e-03217,235,235			1.00	0.04	0.96
1834	0.02	0.10	0.0 240,100,0	0.10	2.23e-03	0.01217,234,237	0.25	217	0.87	0.06	0.94
	8.40e-03	6.96e-03	0.0 236,233,0	0.10	2.24e-03	2.24e-03217,236,236			1.00	0.04	0.96
1835	0.05	0.11	0.0 224,221,0	0.08	6.47e-03	0.02217,234,237	0.21	217	0.87	0.06	0.94
	4.11e-03	9.26e-03	0.0 234,100,0	0.08	1.46e-03	1.46e-03217,233,233			1.00	0.04	0.96
1836	0.04	0.09	0.0 224,221,0	0.07	4.51e-03	0.02217,233,233	0.21	217	0.87	0.06	0.94
	5.65e-03	7.46e-03	0.0 234,235,0	0.07	1.34e-03	1.34e-03217,236,236			1.00	0.04	0.96
1837	0.03	0.08	0.0 216,237,0	0.07	2.23e-03	0.01217,234,233	0.20	217	0.87	0.06	0.94
	5.65e-03	5.65e-03	0.0 234,235,0	0.07	2.24e-03	2.24e-03217,236,236			1.00	0.04	0.96
1838	0.05	0.11	0.0 224,221,0	0.01	5.73e-03	0.02221,235,237	0.09	221	0.87	0.06	0.94
	0.0	9.00e-03	0.0 0,100,0	0.01	1.02e-03	1.02e-03221,239,239			0.0	0.0	0.0
1839	0.04	0.09	0.0 224,221,0	0.01	4.51e-03	0.02217,233,233	0.09	217	0.87	0.06	0.94
	1.70e-03	3.43e-03	0.0 234,100,0	0.01	1.03e-03	1.03e-03217,240,240			1.00	0.04	0.96
1840	0.03	0.08	0.0 216,221,0	0.01	2.00e-03	0.01217,235,233	0.09	217	0.87	0.06	0.94
	1.70e-03	2.20e-03	0.0 234,235,0	0.01	1.03e-03	1.03e-03217,240,240			1.00	0.04	0.96
1841	0.03	0.16	0.0 234,235,0	0.10	3.92e-03	0.02217,234,235	0.24	217	0.87	0.06	0.94
	8.40e-03	0.01	0.0 236,240,0	0.10	8.17e-03	8.17e-03217,240,240			1.00	0.04	0.96
1842	0.02	0.15	0.0 240,100,0	0.10	0.03	0.04221,234,235	0.24	221	0.87	0.06	0.94
	0.03	0.05	0.0 240,237,0	0.10	0.01	0.01221,234,234			1.00	0.04	0.96
1843	0.02	0.10	0.0 240,100,0	0.10	2.37e-03	0.01217,234,237	0.24	217	0.87	0.06	0.94
	8.40e-03	8.95e-03	0.0 236,236,0	0.10	5.43e-03	5.43e-03217,234,234			1.00	0.04	0.96
1844	0.02	0.09	0.0 240,237,0	0.10	5.01e-03	0.02221,236,237	0.24	221	0.87	0.06	0.94
	0.03	0.04	0.0 240,237,0	0.10	5.43e-03	5.43e-03221,234,234			1.00	0.04	0.96
1845	0.02	0.08	0.0 240,237,0	0.07	2.84e-03	0.01217,240,233	0.20	217	0.87	0.06	0.94
	5.06e-03	4.88e-03	0.0 238,239,0	0.07	2.24e-03	2.24e-03217,236,236			1.00	0.04	0.96
1846	0.02	0.07	0.0 240,237,0	0.06	5.01e-03	0.01217,236,233	0.19	217	0.87	0.06	0.94
	0.01	0.02	0.0 240,100,0	0.06	4.50e-03	4.50e-03217,234,234			1.00	0.04	0.96
1847	0.01	0.06	0.0 236,233,0	0.02	2.84e-03	0.01217,240,233	0.10	217	0.87	0.06	0.94
	1.56e-03	1.69e-03	0.0 213,220,0	0.02	8.42e-04	8.42e-04217,236,236			1.00	0.04	0.96
1848	0.01	0.05	0.0 236,233,0	0.02	3.92e-03	0.01217,235,233	0.10	217	0.87	0.06	0.94
	2.12e-03	6.68e-03	0.0 224,100,0	0.02	1.37e-03	1.37e-03217,234,234			1.00	0.04	0.96
1849	0.02	0.15	0.0 234,100,0	0.10	0.03	0.04221,234,235	0.24	221	0.87	0.06	0.94
	0.04	0.06	0.0 240,237,0	0.10	0.02	0.02221,234,234			1.00	0.04	0.96
1850	0.01	0.13	0.0 236,100,0	0.03	0.03	0.04217,234,234	0.14	217	0.87	0.06	0.94
	0.04	0.06	0.0 240,237,0	0.03	0.02	0.02217,234,234			1.00	0.04	0.96
1851	0.02	0.09	0.0 234,235,0	0.09	5.54e-03	0.02221,234,237	0.23	221	0.87	0.06	0.94
	0.04	0.04	0.0 240,237,0	0.09	0.01	0.01221,234,234			1.00	0.04	0.96
1852	0.01	0.08	0.0 236,233,0	0.03	5.54e-03	0.01217,234,237	0.14	217	0.87	0.06	0.94
	0.04	0.04	0.0 240,237,0	0.03	0.01	0.01217,234,234			1.00	0.04	0.96
1853	0.01	0.06	0.0 240,237,0	0.05	5.43e-03	0.01217,235,233	0.17	217	0.87	0.06	0.94
	0.01	0.02	0.0 240,100,0	0.05	4.50e-03	4.50e-03217,234,234			1.00	0.04	0.96
1854	9.17e-03	0.05	0.0 214,100,0	0.02	5.43e-03	0.01211,235,235	0.10	211	0.87	0.06	0.94
	0.01	0.02	0.0 240,100,0	0.02	3.86e-03	3.86e-03211,240,240			1.00	0.04	0.96
1855	9.17e-03	0.05	0.0 214,215,0	0.01	5.43e-03	0.01209,235,235	0.08	209	0.87	0.06	0.94
	2.12e-03	8.70e-03	0.0 224,100,0	0.01	1.37e-03	1.37e-03209,234,234			1.00	0.04	0.96
1856	9.17e-03	0.05	0.0 214,215,0	0.01	5.43e-03	0.01215,235,235	0.08	215	0.87	0.06	0.94
	1.44e-03	8.70e-03	0.0 234,100,0	0.01	1.01e-03	1.01e-03215,100,100			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.18	0.28	0.0	0.11	0.05	0.12	0.25

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
56	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.77	-44.3	183	0.71	-41.2	183	0.55	2055.7	-5.103e+05	214

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
961	0.0	0.09	0.0	0,100,0	0.09	2.35e-03	0.01211,100,100		0.23	211	0.0	0.0	0.0
	0.0	9.45e-03	0.0	0,100,0	0.09	5.12e-04	5.12e-04211,209,209				0.0	0.0	0.0
1179	0.0	0.09	0.0	0,100,0	0.10	3.15e-03	0.01215,234,100		0.24	215	0.0	0.0	0.0
	0.0	9.45e-03	0.0	0,100,0	0.10	1.23e-03	1.23e-03215,233,233				0.0	0.0	0.0
1181	0.04	0.09	0.0	214,215,0	0.10	4.21e-03	0.01215,236,216		0.24	215	0.87	0.06	0.94
	0.0	8.43e-03	0.0	0,100,0	0.10	1.41e-03	1.41e-03215,235,235				0.0	0.0	0.0
1183	0.06	0.12	0.0	214,215,0	0.07	6.11e-03	0.02212,235,215		0.20	212	0.87	0.06	0.94
	0.0	7.78e-03	0.0	0,100,0	0.07	1.41e-03	1.41e-03212,235,235				0.0	0.0	0.0
1185	0.06	0.12	0.0	214,215,0	0.01	6.11e-03	0.02215,235,215		0.08	215	0.87	0.06	0.94
	0.0	7.78e-03	0.0	0,100,0	0.01	1.09e-03	1.09e-03215,235,235				0.0	0.0	0.0
1857	0.06	0.12	0.0	214,215,0	0.01	6.11e-03	0.02212,235,215		0.08	212	0.87	0.06	0.94
	0.0	7.78e-03	0.0	0,100,0	0.01	1.09e-03	1.09e-03212,235,235				0.0	0.0	0.0
1858	0.06	0.12	0.0	214,215,0	0.07	6.11e-03	0.02212,235,215		0.20	212	0.87	0.06	0.94
	1.70e-03	7.78e-03	0.0	236,100,0	0.07	1.41e-03	1.41e-03212,235,235				1.00	0.04	0.96
1859	0.05	0.10	0.0	209,212,0	0.01	4.32e-03	0.01212,235,239		0.08	212	0.87	0.06	0.94
	1.12e-03	2.97e-03	0.0	236,100,0	0.01	9.98e-04	9.98e-04212,236,236				1.00	0.04	0.96
1860	0.05	0.10	0.0	209,212,0	0.07	4.32e-03	0.01212,235,239		0.20	212	0.87	0.06	0.94
	4.39e-03	4.71e-03	0.0	236,233,0	0.07	1.47e-03	1.47e-03212,236,236				1.00	0.04	0.96
1861	0.04	0.08	0.0	213,216,0	0.01	2.17e-03	0.01212,235,239		0.08	212	0.87	0.06	0.94
	1.12e-03	1.79e-03	0.0	236,233,0	0.01	9.98e-04	9.98e-04212,236,236				1.00	0.04	0.96
1862	0.04	0.08	0.0	213,216,0	0.06	2.17e-03	0.01212,235,239		0.19	212	0.87	0.06	0.94
	4.39e-03	4.46e-03	0.0	236,233,0	0.06	1.47e-03	1.47e-03212,236,236				1.00	0.04	0.96
1863	0.04	0.09	0.0	214,215,0	0.10	4.21e-03	0.01211,236,216		0.24	211	0.87	0.06	0.94
	3.43e-03	8.43e-03	0.0	233,100,0	0.10	1.41e-03	1.41e-03211,235,235				1.00	0.04	0.96
1864	0.03	0.08	0.0	214,215,0	0.10	3.00e-03	0.01211,236,239		0.24	211	0.87	0.06	0.94
	6.21e-03	6.02e-03	0.0	236,233,0	0.10	1.47e-03	1.47e-03211,236,236				1.00	0.04	0.96
1865	0.03	0.07	0.0	214,215,0	0.09	1.79e-03	0.01211,234,235		0.24	211	0.87	0.06	0.94
	6.66e-03	5.93e-03	0.0	236,236,0	0.09	1.47e-03	1.47e-03211,236,236				1.00	0.04	0.96
1866	0.0	0.09	0.0	0,100,0	0.10	3.15e-03	0.01211,234,100		0.24	211	0.0	0.0	0.0
	3.43e-03	9.45e-03	0.0	233,100,0	0.10	3.24e-03	3.24e-03211,235,235				1.00	0.04	0.96
1867	0.0	0.09	0.0	0,100,0	0.10	2.17e-03	0.01211,234,100		0.24	211	0.0	0.0	0.0
	6.21e-03	6.02e-03	0.0	236,233,0	0.10	3.40e-03	3.40e-03211,236,236				1.00	0.04	0.96
1868	1.80e-03	0.09	0.0	214,100,0	0.09	2.22e-03	0.01211,100,100		0.24	211	0.87	0.06	0.94
	6.66e-03	5.93e-03	0.0	236,236,0	0.09	4.15e-03	4.15e-03211,236,236				1.00	0.04	0.96
1869	0.0	0.09	0.0	0,100,0	0.09	2.35e-03	0.01211,100,100		0.23	211	0.0	0.0	0.0
	1.29e-03	9.45e-03	0.0	233,100,0	0.09	3.24e-03	3.24e-03211,235,235				1.00	0.04	0.96
1870	0.0	0.09	0.0	0,100,0	0.09	1.02e-03	0.01211,234,100		0.23	211	0.0	0.0	0.0
	3.41e-03	4.04e-03	0.0	238,100,0	0.09	3.40e-03	3.40e-03211,236,236				1.00	0.04	0.96
1871	0.0	0.09	0.0	0,100,0	0.09	2.22e-03	0.01211,100,100		0.23	211	0.0	0.0	0.0
	4.31e-03	3.94e-03	0.0	238,236,0	0.09	4.15e-03	4.15e-03211,236,236				1.00	0.04	0.96
1872	0.02	0.06	0.0	213,216,0	0.01	2.75e-03	0.01212,240,239		0.08	212	0.87	0.06	0.94
	1.03e-03	1.68e-03	0.0	236,100,0	0.01	8.51e-04	8.51e-04212,100,100				1.00	0.04	0.96
1873	0.02	0.07	0.0	213,215,0	0.06	2.75e-03	0.01212,240,239		0.19	212	0.87	0.06	0.94
	3.93e-03	4.73e-03	0.0	236,100,0	0.06	1.47e-03	1.47e-03212,236,236				1.00	0.04	0.96
1874	0.0	0.05	0.0	0,100,0	0.01	4.61e-03	0.01212,237,233		0.09	212	0.0	0.0	0.0
	8.73e-04	3.36e-03	0.0	223,100,0	0.01	1.53e-03	1.53e-03212,100,100				1.00	0.04	0.96
1875	0.02	0.06	0.0	214,215,0	0.05	4.61e-03	0.01212,237,233		0.18	212	0.87	0.06	0.94
	4.36e-03	9.38e-03	0.0	232,100,0	0.05	3.31e-03	3.31e-03212,100,100				1.00	0.04	0.96
1876	0.02	0.07	0.0	214,100,0	0.09	1.87e-03	9.42e-03211,234,100		0.23	211	0.87	0.06	0.94
	6.66e-03	5.83e-03	0.0	236,236,0	0.09	1.61e-03	1.61e-03211,236,236				1.00	0.04	0.96
1877	0.02	0.06	0.0	214,100,0	0.09	3.91e-03	9.77e-03211,234,235		0.22	211	0.87	0.06	0.94
	0.01	0.02	0.0	99,100,0	0.09	3.31e-03	3.31e-03211,100,100				1.00	0.04	0.96
1878	3.39e-03	0.09	0.0	214,100,0	0.09	5.55e-03	0.02211,236,100		0.23	211	0.87	0.06	0.94
	6.66e-03	5.83e-03	0.0	236,236,0	0.09	4.15e-03	4.15e-03211,236,236				1.00	0.04	0.96
1879	8.01e-03	0.09	0.0	234,100,0	0.09	8.50e-03	0.02211,236,100		0.24	211	0.87	0.06	0.94
	0.01	0.02	0.0	99,100,0	0.09	9.05e-03	9.05e-03211,100,100				1.00	0.04	0.96
1880	0.0	0.09	0.0	0,100,0	0.09	5.55e-03	0.02211,236,100		0.23	211	0.0	0.0	0.0
	4.31e-03	3.94e-03	0.0	238,236,0	0.09	4.15e-03	4.15e-03211,236,236				1.00	0.04	0.96

1881	8.01e-03	0.09	0.0	234,100,0	0.09	8.50e-03	0.02211,236,100	0.24	211	0.87	0.06	0.94
	6.09e-03	0.01	0.0	234,100,0	0.09	9.05e-03	9.05e-03211,100,100			1.00	0.04	0.96
1882	0.0	0.05	0.0	0,100,0	0.01	6.82e-03	0.01212,233,233	0.09	212	0.0	0.0	0.0
	5.66e-04	5.35e-03	0.0	224,100,0	0.01	1.53e-03	1.53e-03212,100,100			1.00	0.04	0.96
1883	0.01	0.05	0.0	214,215,0	0.05	6.82e-03	0.01212,233,233	0.17	212	0.87	0.06	0.94
	4.36e-03	9.38e-03	0.0	232,100,0	0.05	3.48e-03	3.48e-03212,100,100			1.00	0.04	0.96
1884	0.0	0.04	0.0	0,100,0	0.01	6.82e-03	0.01212,233,233	0.09	212	0.0	0.0	0.0
	0.0	5.35e-03	0.0	0,100,0	0.01	1.50e-03	1.50e-03212,100,100			0.0	0.0	0.0
1885	8.89e-03	0.04	0.0	214,215,0	0.05	6.82e-03	0.01212,233,233	0.16	212	0.87	0.06	0.94
	1.46e-03	8.12e-03	0.0	240,100,0	0.05	3.48e-03	3.48e-03212,100,100			1.00	0.04	0.96
1886	0.01	0.06	0.0	214,100,0	0.08	6.76e-03	9.77e-03211,234,235	0.22	211	0.87	0.06	0.94
	0.01	0.02	0.0	99,100,0	0.08	4.35e-03	4.35e-03211,100,100			1.00	0.04	0.96
1887	8.89e-03	0.04	0.0	214,100,0	0.07	6.76e-03	9.12e-03211,234,235	0.21	211	0.87	0.06	0.94
	8.72e-03	0.02	0.0	234,100,0	0.07	4.35e-03	4.35e-03211,100,100			1.00	0.04	0.96
1888	8.01e-03	0.15	0.0	234,100,0	0.12	0.02	0.04211,100,100	0.27	211	0.87	0.06	0.94
	0.01	0.02	0.0	234,100,0	0.12	0.01	0.01211,100,100			1.00	0.04	0.96
1889	3.45e-03	0.07	0.0	214,100,0	0.08	0.01	0.02211,234,100	0.21	211	0.87	0.06	0.94
	8.72e-03	0.02	0.0	234,100,0	0.08	4.35e-03	4.35e-03211,100,100			1.00	0.04	0.96
1890	8.01e-03	0.15	0.0	234,100,0	0.12	0.02	0.04211,100,100	0.27	211	0.87	0.06	0.94
	0.01	0.02	0.0	234,100,0	0.12	0.01	0.01211,100,100			1.00	0.04	0.96
1891	0.0	0.15	0.0	0,100,0	0.12	0.02	0.04211,100,100	0.27	211	0.0	0.0	0.0
	0.01	0.02	0.0	234,100,0	0.12	0.01	0.01211,100,100			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.06	0.15	0.0	0.12	0.02	0.04	0.27

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
57	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.71	296.8	202	0.68	-286.8	203	0.92	-1.703e+04	7.022e+06	236

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
90	0.05	0.07	0.0	233,236,0	0.16	0.01	0.02234,212,212		0.30	234	0.87	0.06	0.94
	5.52e-03	5.62e-03	0.0	212,209,0	0.16	8.45e-04	8.45e-04234,212,212				1.00	0.04	0.96
941	0.05	0.07	0.0	233,236,0	0.20	0.01	0.02234,212,212		0.34	234	0.87	0.06	0.94
	0.02	0.01	0.0	212,209,0	0.20	9.31e-04	9.31e-04234,212,212				1.00	0.04	0.96
943	0.02	0.05	0.0	233,236,0	0.21	4.21e-03	8.33e-03234,209,212		0.35	234	0.87	0.06	0.94
	0.02	0.01	0.0	212,209,0	0.21	2.97e-03	2.97e-03234,212,212				1.00	0.04	0.96
945	0.0	0.06	0.0	0,100,0	0.22	6.68e-03	0.01235,209,212		0.36	235	0.0	0.0	0.0
	0.01	0.01	0.0	212,209,0	0.22	2.97e-03	2.97e-03235,212,212				1.00	0.04	0.96
947	0.0	0.06	0.0	0,100,0	0.23	6.68e-03	0.01235,209,212		0.37	235	0.0	0.0	0.0
	8.61e-03	6.46e-03	0.0	212,209,0	0.23	2.30e-03	2.30e-03235,212,212				1.00	0.04	0.96
949	0.0	0.07	0.0	0,100,0	0.23	6.52e-03	0.01235,212,212		0.37	235	0.0	0.0	0.0
	4.40e-03	4.27e-03	0.0	212,213,0	0.23	5.31e-04	5.31e-04235,211,211				1.00	0.04	0.96
951	0.0	0.07	0.0	0,100,0	0.23	5.92e-03	0.01235,212,209		0.37	235	0.0	0.0	0.0
	3.48e-03	4.27e-03	0.0	216,213,0	0.23	5.40e-04	5.40e-04235,225,225				1.00	0.04	0.96
953	0.0	0.07	0.0	0,100,0	0.23	5.47e-03	0.01235,212,209		0.37	235	0.0	0.0	0.0
	2.42e-03	5.59e-03	0.0	240,237,0	0.23	8.22e-04	8.22e-04235,209,209				1.00	0.04	0.96
955	0.0	0.07	0.0	0,100,0	0.23	4.68e-03	9.43e-03235,215,214		0.37	235	0.0	0.0	0.0
	2.42e-03	6.90e-03	0.0	240,233,0	0.23	8.22e-04	8.22e-04235,209,209				1.00	0.04	0.96
957	0.0	0.07	0.0	0,100,0	0.22	3.77e-03	8.45e-03235,211,213		0.36	235	0.0	0.0	0.0
	2.25e-03	8.47e-03	0.0	236,100,0	0.22	7.83e-04	7.83e-04235,209,209				1.00	0.04	0.96
959	1.26e-03	0.08	0.0	240,100,0	0.21	2.38e-03	0.01235,211,100		0.35	235	0.87	0.06	0.94
	1.95e-03	0.01	0.0	236,100,0	0.21	2.25e-03	2.25e-03235,221,221				1.00	0.04	0.96
961	2.10e-03	0.11	0.0	240,100,0	0.21	1.43e-03	0.01235,100,100		0.35	235	0.87	0.06	0.94
	6.23e-03	0.02	0.0	234,237,0	0.21	3.19e-03	3.19e-03235,209,209				1.00	0.04	0.96
999	0.16	0.31	0.0	236,233,0	0.17	1.43e-03	0.04236,100,233		0.32	236	0.87	0.06	0.94
	6.23e-03	0.02	0.0	234,100,0	0.17	3.19e-03	3.19e-03236,209,209				1.00	0.04	0.96
1001	0.16	0.31	0.0	236,233,0	0.13	1.18e-03	0.04233,219,233		0.27	233	0.87	0.06	0.94
	0.0	0.02	0.0	0,100,0	0.13	7.92e-04	7.92e-04233,212,212				0.0	0.0	0.0
1626	0.05	0.07	0.0	233,236,0	0.16	0.01	0.03234,212,212		0.31	234	0.87	0.06	0.94
	0.02	0.01	0.0	212,212,0	0.16	0.01	0.01234,212,212				1.00	0.04	0.96
1627	0.05	0.06	0.0	233,236,0	0.16	0.01	0.03234,212,212		0.31	234	0.87	0.06	0.94
	0.03	0.03	0.0	212,212,0	0.16	0.03	0.03234,212,212				1.00	0.04	0.96
1628	0.04	0.06	0.0	225,236,0	0.16	0.03	0.04234,212,212		0.31	234	0.87	0.06	0.94
	0.03	0.03	0.0	212,212,0	0.16	0.03	0.03234,212,212				1.00	0.04	0.96
1637	0.03	0.05	0.0	233,236,0	0.16	0.03	0.04234,212,212		0.30	234	0.87	0.06	0.94
	0.02	0.02	0.0	212,212,0	0.16	0.02	0.02234,212,212				1.00	0.04	0.96

1638	0.02	0.05	0.0 209,212,0	0.15	0.03	0.04234,212,212	0.30	234	0.87	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.15	0.01	0.01234,212,212			1.00	0.04	0.96
1647	0.02	0.05	0.0 209,212,0	0.15	0.03	0.04234,212,212	0.30	234	0.87	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.15	0.01	0.01234,212,212			1.00	0.04	0.96
1648	6.95e-03	0.06	0.0 209,100,0	0.17	0.03	0.04234,212,212	0.31	234	0.87	0.06	0.94
	0.02	0.02	0.0 212,209,0	0.17	2.92e-03	2.92e-03234,212,212			1.00	0.04	0.96
1869	7.43e-03	0.11	0.0 240,100,0	0.21	1.43e-03	0.01235,100,100	0.35	235	0.87	0.06	0.94
	7.39e-03	0.02	0.0 236,233,0	0.21	5.80e-03	5.80e-03235,209,209			1.00	0.04	0.96
1870	7.43e-03	0.11	0.0 240,100,0	0.21	8.05e-04	0.01235,215,100	0.36	235	0.87	0.06	0.94
	8.24e-03	0.02	0.0 216,233,0	0.21	5.93e-03	5.93e-03235,209,209			1.00	0.04	0.96
1871	4.45e-03	0.11	0.0 240,100,0	0.21	7.62e-04	0.01235,211,100	0.36	235	0.87	0.06	0.94
	8.24e-03	0.02	0.0 216,100,0	0.21	5.93e-03	5.93e-03235,209,209			1.00	0.04	0.96
1880	2.97e-03	0.11	0.0 240,100,0	0.21	7.28e-04	0.01235,212,100	0.35	235	0.87	0.06	0.94
	4.93e-03	0.03	0.0 216,100,0	0.21	5.83e-03	5.83e-03235,209,209			1.00	0.04	0.96
1881	0.0	0.11	0.0 0,100,0	0.21	7.57e-04	0.01235,215,100	0.35	235	0.0	0.0	0.0
	0.0	0.09	0.0 0,100,0	0.21	5.07e-03	5.07e-03235,209,209			0.0	0.0	0.0
1890	0.0	0.11	0.0 0,100,0	0.21	2.39e-03	0.01235,211,100	0.35	235	0.0	0.0	0.0
	7.85e-03	0.09	0.0 235,100,0	0.21	4.08e-03	4.08e-03235,209,209			1.00	0.04	0.96
1891	0.0	0.11	0.0 0,100,0	0.20	2.39e-03	0.01235,211,100	0.34	235	0.0	0.0	0.0
	7.85e-03	0.08	0.0 235,100,0	0.20	1.86e-03	1.86e-03235,221,221			1.00	0.04	0.96
1892	0.05	0.07	0.0 233,236,0	0.20	0.01	0.03234,212,212	0.34	234	0.87	0.06	0.94
	0.04	0.03	0.0 212,209,0	0.20	0.01	0.01234,212,212			1.00	0.04	0.96
1893	0.05	0.06	0.0 233,236,0	0.20	0.01	0.03234,212,212	0.34	234	0.87	0.06	0.94
	0.06	0.04	0.0 212,212,0	0.20	0.03	0.03234,212,212			1.00	0.04	0.96
1894	0.04	0.06	0.0 225,236,0	0.20	0.03	0.04234,212,212	0.34	234	0.87	0.06	0.94
	0.06	0.04	0.0 212,212,0	0.20	0.03	0.03234,212,212			1.00	0.04	0.96
1895	0.02	0.05	0.0 233,100,0	0.21	4.21e-03	9.43e-03234,209,212	0.35	234	0.87	0.06	0.94
	0.04	0.03	0.0 212,209,0	0.21	5.00e-03	5.00e-03234,212,212			1.00	0.04	0.96
1896	0.02	0.05	0.0 233,100,0	0.21	3.66e-03	9.43e-03234,212,212	0.35	234	0.87	0.06	0.94
	0.06	0.04	0.0 212,212,0	0.21	6.66e-03	6.66e-03234,212,212			1.00	0.04	0.96
1897	0.01	0.05	0.0 233,100,0	0.21	3.66e-03	8.41e-03235,212,216	0.35	235	0.87	0.06	0.94
	0.06	0.04	0.0 212,212,0	0.21	6.66e-03	6.66e-03235,212,212			1.00	0.04	0.96
1898	0.0	0.06	0.0 0,100,0	0.22	6.68e-03	0.01235,209,212	0.36	235	0.0	0.0	0.0
	0.03	0.02	0.0 212,209,0	0.22	5.00e-03	5.00e-03235,212,212			1.00	0.04	0.96
1899	0.0	0.06	0.0 0,100,0	0.22	4.22e-03	0.01235,209,212	0.36	235	0.0	0.0	0.0
	0.03	0.03	0.0 212,209,0	0.22	6.66e-03	6.66e-03235,212,212			1.00	0.04	0.96
1900	0.0	0.06	0.0 0,100,0	0.23	1.77e-03	9.49e-03235,212,212	0.36	235	0.0	0.0	0.0
	0.03	0.03	0.0 212,209,0	0.23	6.66e-03	6.66e-03235,212,212			1.00	0.04	0.96
1901	0.0	0.06	0.0 0,100,0	0.23	6.68e-03	0.01235,209,212	0.37	235	0.0	0.0	0.0
	0.02	0.01	0.0 212,209,0	0.23	3.89e-03	3.89e-03235,212,212			1.00	0.04	0.96
1902	0.0	0.06	0.0 0,100,0	0.23	4.33e-03	0.01235,209,212	0.37	235	0.0	0.0	0.0
	0.02	0.02	0.0 212,209,0	0.23	3.89e-03	3.89e-03235,212,212			1.00	0.04	0.96
1903	0.0	0.06	0.0 0,100,0	0.24	1.75e-03	0.01235,209,212	0.37	235	0.0	0.0	0.0
	0.02	0.02	0.0 212,209,0	0.24	3.79e-03	3.79e-03235,212,212			1.00	0.04	0.96
1904	0.0	0.07	0.0 0,100,0	0.23	6.52e-03	0.01235,212,212	0.37	235	0.0	0.0	0.0
	6.38e-03	8.52e-03	0.0 212,209,0	0.23	1.77e-03	1.77e-03235,212,212			1.00	0.04	0.96
1905	0.0	0.07	0.0 0,100,0	0.24	4.33e-03	0.01235,209,212	0.37	235	0.0	0.0	0.0
	8.22e-03	0.01	0.0 212,209,0	0.24	1.92e-03	1.92e-03235,212,212			1.00	0.04	0.96
1906	0.0	0.07	0.0 0,100,0	0.24	2.18e-03	0.01235,209,209	0.38	235	0.0	0.0	0.0
	8.22e-03	0.01	0.0 212,209,0	0.24	1.92e-03	1.92e-03235,212,212			1.00	0.04	0.96
1907	0.0	0.07	0.0 0,100,0	0.23	5.92e-03	0.01235,212,209	0.37	235	0.0	0.0	0.0
	3.48e-03	8.15e-03	0.0 216,233,0	0.23	6.03e-04	6.03e-04235,212,212			1.00	0.04	0.96
1908	0.0	0.07	0.0 0,100,0	0.24	4.25e-03	0.01235,212,209	0.38	235	0.0	0.0	0.0
	3.77e-03	0.01	0.0 216,52,0	0.24	7.97e-04	7.97e-04235,212,212			1.00	0.04	0.96
1909	0.0	0.07	0.0 0,100,0	0.24	2.18e-03	0.01235,209,209	0.38	235	0.0	0.0	0.0
	3.77e-03	0.01	0.0 216,100,0	0.24	1.08e-03	1.08e-03235,212,212			1.00	0.04	0.96
1910	0.0	0.07	0.0 0,100,0	0.23	5.47e-03	0.01235,212,209	0.37	235	0.0	0.0	0.0
	3.04e-03	0.01	0.0 236,233,0	0.23	8.22e-04	8.22e-04235,209,209			1.00	0.04	0.96
1911	0.0	0.07	0.0 0,100,0	0.24	3.89e-03	0.01235,212,209	0.38	235	0.0	0.0	0.0
	3.04e-03	0.01	0.0 236,100,0	0.24	2.29e-04	2.29e-04235,212,212			1.00	0.04	0.96
1912	0.0	0.07	0.0 0,100,0	0.24	2.12e-03	0.01235,212,209	0.38	235	0.0	0.0	0.0
	2.15e-03	0.02	0.0 216,100,0	0.24	4.66e-04	4.66e-04235,212,212			1.00	0.04	0.96
1913	0.0	0.07	0.0 0,100,0	0.23	4.68e-03	9.75e-03235,215,209	0.37	235	0.0	0.0	0.0
	3.43e-03	0.01	0.0 236,233,0	0.23	8.22e-04	8.22e-04235,209,209			1.00	0.04	0.96
1914	0.0	0.07	0.0 0,100,0	0.24	3.19e-03	9.75e-03235,212,209	0.38	235	0.0	0.0	0.0
	3.43e-03	0.01	0.0 236,100,0	0.24	8.96e-04	8.96e-04235,209,209			1.00	0.04	0.96
1915	0.0	0.07	0.0 0,100,0	0.24	1.74e-03	9.35e-03235,212,209	0.38	235	0.0	0.0	0.0
	1.62e-03	0.02	0.0 216,100,0	0.24	1.20e-03	1.20e-03235,209,209			1.00	0.04	0.96
1916	0.0	0.07	0.0 0,100,0	0.23	3.77e-03	8.58e-03235,211,210	0.37	235	0.0	0.0	0.0
	3.43e-03	0.01	0.0 236,100,0	0.23	2.28e-03	2.28e-03235,209,209			1.00	0.04	0.96
1917	0.0	0.07	0.0 0,100,0	0.23	2.59e-03	8.58e-03235,211,210	0.37	235	0.0	0.0	0.0
	3.43e-03	0.01	0.0 236,100,0	0.23	2.91e-03	2.91e-03235,209,209			1.00	0.04	0.96
1918	0.0	0.07	0.0 0,100,0	0.24	1.45e-03	8.30e-03235,211,210	0.38	235	0.0	0.0	0.0
	1.30e-03	0.02	0.0 236,100,0	0.24	3.07e-03	3.07e-03235,209,209			1.00	0.04	0.96
1919	1.26e-03	0.08	0.0 240,100,0	0.22	2.38e-03	0.01235,211,100	0.36	235	0.87	0.06	0.94
	6.51e-03	0.02	0.0 236,233,0	0.22	5.80e-03	5.80e-03235,209,209			1.00	0.04	0.96
1920	0.0	0.08	0.0 0,100,0	0.23	1.59e-03	9.00e-03235,211,100	0.36	235	0.0	0.0	0.0

	6.51e-03	0.02	0.0	236,233,0	0.23	5.93e-03	5.93e-03	235,209,209			1.00	0.04	0.96
1921	0.0	0.08	0.0	0,100,0	0.23	1.08e-03	8.81e-03	235,211,100	0.37	235	0.0	0.0	0.0
	6.30e-03	0.02	0.0	216,100,0	0.23	5.93e-03	5.93e-03	235,209,209			1.00	0.04	0.96
1922	0.03	0.05	0.0	233,236,0	0.19	0.03	0.04	234,212,212	0.34	234	0.87	0.06	0.94
	0.04	0.03	0.0	212,212,0	0.19	0.02	0.02	234,212,212			1.00	0.04	0.96
1923	0.02	0.05	0.0	209,100,0	0.18	0.03	0.04	234,212,212	0.33	234	0.87	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.18	0.01	0.01	234,212,212			1.00	0.04	0.96
1924	5.05e-03	0.05	0.0	233,100,0	0.21	3.00e-03	8.76e-03	235,212,216	0.35	235	0.87	0.06	0.94
	0.04	0.03	0.0	212,212,0	0.21	9.10e-03	9.10e-03	235,212,212			1.00	0.04	0.96
1925	2.04e-03	0.06	0.0	233,100,0	0.21	2.97e-03	8.76e-03	235,212,216	0.35	235	0.87	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.21	9.87e-03	9.87e-03	235,212,212			1.00	0.04	0.96
1926	0.0	0.06	0.0	0,100,0	0.23	2.98e-03	0.01	235,212,216	0.37	235	0.0	0.0	0.0
	0.02	0.02	0.0	212,209,0	0.23	3.66e-03	3.66e-03	235,212,212			1.00	0.04	0.96
1927	0.0	0.06	0.0	0,100,0	0.23	3.58e-03	0.01	235,209,216	0.37	235	0.0	0.0	0.0
	9.13e-03	0.02	0.0	212,209,0	0.23	7.19e-03	7.19e-03	235,212,212			1.00	0.04	0.96
1928	0.0	0.06	0.0	0,100,0	0.24	2.98e-03	0.01	235,212,216	0.37	235	0.0	0.0	0.0
	0.01	0.02	0.0	212,209,0	0.24	1.95e-03	1.95e-03	235,212,212			1.00	0.04	0.96
1929	0.0	0.06	0.0	0,100,0	0.24	4.27e-03	0.01	235,209,212	0.38	235	0.0	0.0	0.0
	9.13e-03	0.02	0.0	212,214,0	0.24	1.65e-03	1.65e-03	235,212,212			1.00	0.04	0.96
1930	0.0	0.07	0.0	0,100,0	0.24	2.46e-03	0.01	235,212,209	0.38	235	0.0	0.0	0.0
	7.65e-03	0.02	0.0	212,100,0	0.24	1.69e-03	1.69e-03	235,212,212			1.00	0.04	0.96
1931	0.0	0.06	0.0	0,100,0	0.24	4.47e-03	0.01	235,212,212	0.38	235	0.0	0.0	0.0
	4.99e-03	0.02	0.0	215,100,0	0.24	1.36e-03	1.36e-03	235,212,212			1.00	0.04	0.96
1932	0.0	0.07	0.0	0,100,0	0.25	2.24e-03	0.01	235,212,209	0.38	235	0.0	0.0	0.0
	2.52e-03	0.02	0.0	212,100,0	0.25	1.19e-03	1.19e-03	235,212,212			1.00	0.04	0.96
1933	0.0	0.07	0.0	0,100,0	0.25	4.47e-03	0.01	235,212,212	0.38	235	0.0	0.0	0.0
	0.0	0.03	0.0	0,100,0	0.25	1.19e-03	1.19e-03	235,212,212			0.0	0.0	0.0
1934	0.0	0.07	0.0	0,100,0	0.25	1.92e-03	0.01	235,212,209	0.38	235	0.0	0.0	0.0
	0.0	0.02	0.0	0,100,0	0.25	6.36e-04	6.36e-04	235,212,212			0.0	0.0	0.0
1935	0.0	0.07	0.0	0,100,0	0.25	4.07e-03	0.01	235,212,209	0.38	235	0.0	0.0	0.0
	0.0	0.03	0.0	0,100,0	0.25	7.98e-04	7.98e-04	235,215,215			0.0	0.0	0.0
1936	0.0	0.07	0.0	0,100,0	0.25	1.56e-03	9.18e-03	235,212,209	0.38	235	0.0	0.0	0.0
	0.0	0.03	0.0	0,100,0	0.25	1.20e-03	1.20e-03	235,209,209			0.0	0.0	0.0
1937	0.0	0.07	0.0	0,100,0	0.25	3.31e-03	9.86e-03	235,212,210	0.38	235	0.0	0.0	0.0
	0.0	0.04	0.0	0,100,0	0.25	1.06e-03	1.06e-03	235,209,209			0.0	0.0	0.0
1938	0.0	0.07	0.0	0,100,0	0.24	1.13e-03	7.90e-03	235,215,210	0.38	235	0.0	0.0	0.0
	0.0	0.03	0.0	0,100,0	0.24	3.07e-03	3.07e-03	235,209,209			0.0	0.0	0.0
1939	0.0	0.07	0.0	0,100,0	0.24	2.79e-03	8.67e-03	235,211,210	0.38	235	0.0	0.0	0.0
	0.0	0.06	0.0	0,100,0	0.24	2.63e-03	2.63e-03	235,209,209			0.0	0.0	0.0
1940	0.0	0.08	0.0	0,100,0	0.23	6.59e-04	8.79e-03	235,212,100	0.37	235	0.0	0.0	0.0
	2.86e-03	0.03	0.0	216,100,0	0.23	5.83e-03	5.83e-03	235,209,209			1.00	0.04	0.96
1941	0.0	0.08	0.0	0,100,0	0.23	1.76e-03	8.69e-03	235,211,100	0.37	235	0.0	0.0	0.0
	0.0	0.07	0.0	0,100,0	0.23	5.07e-03	5.07e-03	235,209,209			0.0	0.0	0.0
1942	0.02	0.06	0.0	209,100,0	0.17	0.03	0.04	235,212,212	0.32	235	0.87	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.17	0.01	0.01	235,212,212			1.00	0.04	0.96
1943	0.0	0.06	0.0	0,100,0	0.17	0.01	0.02	235,212,212	0.31	235	0.0	0.0	0.0
	0.01	0.01	0.0	212,209,0	0.17	2.82e-03	2.82e-03	235,212,212			1.00	0.04	0.96
1944	7.36e-04	0.06	0.0	233,100,0	0.21	7.57e-03	0.01	235,209,212	0.35	235	0.87	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.21	9.87e-03	9.87e-03	235,212,212			1.00	0.04	0.96
1945	0.0	0.06	0.0	0,100,0	0.20	7.57e-03	0.01	235,209,212	0.35	235	0.0	0.0	0.0
	0.01	0.01	0.0	212,209,0	0.20	2.80e-03	2.80e-03	235,212,212			1.00	0.04	0.96
1946	0.0	0.06	0.0	0,100,0	0.23	4.93e-03	9.33e-03	235,210,216	0.36	235	0.0	0.0	0.0
	4.31e-03	0.01	0.0	215,214,0	0.23	7.19e-03	7.19e-03	235,212,212			1.00	0.04	0.96
1947	0.0	0.06	0.0	0,100,0	0.22	4.93e-03	8.81e-03	235,210,210	0.36	235	0.0	0.0	0.0
	2.81e-03	8.15e-03	0.0	211,210,0	0.22	2.80e-03	2.80e-03	235,212,212			1.00	0.04	0.96
1948	0.0	0.06	0.0	0,100,0	0.24	5.91e-03	0.01	235,209,212	0.38	235	0.0	0.0	0.0
	4.31e-03	0.02	0.0	215,214,0	0.24	1.65e-03	1.65e-03	235,212,212			1.00	0.04	0.96
1949	0.0	0.06	0.0	0,100,0	0.24	5.91e-03	0.01	235,209,216	0.37	235	0.0	0.0	0.0
	3.85e-03	0.01	0.0	211,210,0	0.24	9.99e-04	9.99e-04	235,226,226			1.00	0.04	0.96
1950	0.0	0.06	0.0	0,100,0	0.24	6.34e-03	0.01	235,209,212	0.38	235	0.0	0.0	0.0
	3.85e-03	0.02	0.0	211,100,0	0.24	9.99e-04	9.99e-04	235,226,226			1.00	0.04	0.96
1951	0.0	0.06	0.0	0,100,0	0.24	6.34e-03	0.01	235,209,212	0.38	235	0.0	0.0	0.0
	3.85e-03	0.01	0.0	211,210,0	0.24	9.99e-04	9.99e-04	235,226,226			1.00	0.04	0.96
1952	0.0	0.07	0.0	0,100,0	0.25	6.34e-03	0.01	235,209,212	0.38	235	0.0	0.0	0.0
	3.23e-03	0.03	0.0	211,100,0	0.25	1.88e-03	1.88e-03	235,211,211			1.00	0.04	0.96
1953	0.0	0.07	0.0	0,100,0	0.25	6.34e-03	0.01	235,209,212	0.38	235	0.0	0.0	0.0
	3.23e-03	0.02	0.0	211,100,0	0.25	1.88e-03	1.88e-03	235,211,211			1.00	0.04	0.96
1954	0.0	0.07	0.0	0,100,0	0.25	5.97e-03	0.01	235,212,209	0.38	235	0.0	0.0	0.0
	0.0	0.03	0.0	0,100,0	0.25	1.88e-03	1.88e-03	235,211,211			0.0	0.0	0.0
1955	0.0	0.07	0.0	0,100,0	0.25	5.97e-03	0.01	235,212,214	0.38	235	0.0	0.0	0.0
	0.0	0.02	0.0	0,100,0	0.25	1.88e-03	1.88e-03	235,211,211			0.0	0.0	0.0
1956	0.0	0.07	0.0	0,100,0	0.25	5.81e-03	0.01	235,211,210	0.38	235	0.0	0.0	0.0
	0.0	0.04	0.0	0,100,0	0.25	7.32e-04	7.32e-04	235,213,213			0.0	0.0	0.0
1957	0.0	0.06	0.0	0,100,0	0.25	5.81e-03	0.01	235,211,210	0.38	235	0.0	0.0	0.0
	0.0	0.03	0.0	0,100,0	0.25	6.35e-04	6.35e-04	235,230,230			0.0	0.0	0.0
1958	0.0	0.07	0.0	0,100,0	0.24	4.54e-03	8.79e-03	235,215,214	0.38	235	0.0	0.0	0.0
	0.0	0.06	0.0	0,100,0	0.24	1.86e-03	1.86e-03	235,213,213			0.0	0.0	0.0

1959	0.0	0.06	0.0	0,100,0	0.24	4.54e-03	8.79e-03235,215,214	0.38	235	0.0	0.0	0.0
	0.0	0.04	0.0	0,100,0	0.24	6.35e-04	6.35e-04235,230,230			0.0	0.0	0.0
1960	0.0	0.07	0.0	0,100,0	0.23	3.41e-03	9.22e-03235,215,100	0.37	235	0.0	0.0	0.0
	0.0	0.07	0.0	0,100,0	0.23	4.08e-03	4.08e-03235,209,209			0.0	0.0	0.0
1961	0.0	0.07	0.0	0,100,0	0.23	3.41e-03	9.22e-03235,215,100	0.37	235	0.0	0.0	0.0
	0.0	0.06	0.0	0,100,0	0.23	1.58e-03	1.58e-03235,209,209			0.0	0.0	0.0
1962	0.16	0.31	0.0	236,233,0	0.18	1.43e-03	0.04236,100,233	0.33	236	0.87	0.06	0.94
	7.39e-03	0.02	0.0	236,100,0	0.18	5.38e-03	5.38e-03236,217,217			1.00	0.04	0.96
1963	0.11	0.27	0.0	236,233,0	0.18	8.09e-04	0.03236,225,233	0.33	236	0.87	0.06	0.94
	8.24e-03	0.02	0.0	216,233,0	0.18	5.82e-03	5.82e-03236,209,209			1.00	0.04	0.96
1964	0.06	0.24	0.0	236,233,0	0.18	7.28e-04	0.03236,212,233	0.33	236	0.87	0.06	0.94
	8.24e-03	0.02	0.0	216,213,0	0.18	5.82e-03	5.82e-03236,209,209			1.00	0.04	0.96
1965	0.16	0.31	0.0	236,233,0	0.13	1.18e-03	0.04233,219,233	0.27	233	0.87	0.06	0.94
	0.0	0.02	0.0	0,100,0	0.13	1.42e-03	1.42e-03233,221,221			0.0	0.0	0.0
1966	0.11	0.27	0.0	236,233,0	0.09	8.09e-04	0.03236,225,233	0.23	236	0.87	0.06	0.94
	9.51e-04	0.01	0.0	236,100,0	0.09	2.04e-03	2.04e-03236,209,209			1.00	0.04	0.96
1967	0.06	0.24	0.0	236,233,0	0.08	5.15e-04	0.03236,231,233	0.22	236	0.87	0.06	0.94
	9.51e-04	9.06e-03	0.0	236,100,0	0.08	2.06e-03	2.06e-03236,209,209			1.00	0.04	0.96
1968	0.02	0.24	0.0	240,100,0	0.19	7.28e-04	0.03236,212,100	0.33	236	0.87	0.06	0.94
	4.93e-03	0.03	0.0	216,100,0	0.19	5.73e-03	5.73e-03236,209,209			1.00	0.04	0.96
1969	0.0	0.25	0.0	0,100,0	0.21	6.96e-04	0.03236,107,100	0.35	236	0.0	0.0	0.0
	0.0	0.10	0.0	0,100,0	0.21	5.04e-03	5.04e-03236,209,209			0.0	0.0	0.0
1970	0.02	0.24	0.0	240,100,0	0.09	6.33e-04	0.03236,221,100	0.23	236	0.87	0.06	0.94
	0.0	0.02	0.0	0,100,0	0.09	2.06e-03	2.06e-03236,209,209			0.0	0.0	0.0
1971	0.0	0.25	0.0	0,100,0	0.19	6.96e-04	0.03236,107,100	0.33	236	0.0	0.0	0.0
	0.0	0.10	0.0	0,100,0	0.19	1.80e-03	1.80e-03236,209,209			0.0	0.0	0.0
1972	0.0	0.25	0.0	0,100,0	0.21	1.81e-03	0.03236,223,100	0.35	236	0.0	0.0	0.0
	9.77e-03	0.10	0.0	235,100,0	0.21	4.03e-03	4.03e-03236,209,209			1.00	0.04	0.96
1973	0.0	0.25	0.0	0,100,0	0.07	1.81e-03	0.03233,223,100	0.21	233	0.0	0.0	0.0
	9.77e-03	0.10	0.0	235,100,0	0.07	1.86e-03	1.86e-03233,221,221			1.00	0.04	0.96
1974	0.0	0.25	0.0	0,100,0	0.19	1.61e-03	0.03236,223,100	0.33	236	0.0	0.0	0.0
	9.77e-03	0.10	0.0	235,100,0	0.19	1.27e-03	1.27e-03236,209,209			1.00	0.04	0.96
1975	0.0	0.25	0.0	0,100,0	0.02	1.61e-03	0.03240,223,100	0.12	240	0.0	0.0	0.0
	9.77e-03	0.10	0.0	235,100,0	0.02	6.39e-04	6.39e-04240,211,211			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.16	0.31	0.0	0.25	0.03	0.04	0.38

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
58	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.96	73.8	204	0.51	39.3	204	0.87	-4462.0	1.779e+06	234

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
682	0.12	0.19	0.0	230,237,0	0.02	0.04	0.08	236,221,221	0.09	236	0.87	0.06	0.94
	0.07	0.03	0.0	236,233,0	0.02	0.02	0.02	236,221,221			1.00	0.04	0.96
720	0.12	0.19	0.0	230,237,0	0.16	0.04	0.08	236,221,221	0.31	236	0.87	0.06	0.94
	0.07	0.03	0.0	99,233,0	0.16	0.02	0.02	236,221,221			1.00	0.04	0.96
722	0.05	0.15	0.0	234,239,0	0.17	9.66e-03	0.02	233,221,219	0.32	233	0.87	0.06	0.94
	0.07	0.02	0.0	99,237,0	0.17	6.36e-03	6.36e-03	233,221,221			1.00	0.04	0.96
724	0.0	0.11	0.0	0,100,0	0.18	9.50e-03	0.02	233,224,223	0.33	233	0.0	0.0	0.0
	0.05	8.14e-03	0.0	99,237,0	0.18	4.64e-03	4.64e-03	233,217,217			1.00	0.04	0.96
726	0.08	0.13	0.0	233,236,0	0.18	6.68e-03	0.02	233,217,238	0.33	233	0.87	0.06	0.94
	0.02	2.44e-03	0.0	99,105,0	0.18	1.92e-03	1.92e-03	233,217,217			1.00	0.04	0.96
1358	0.12	0.19	0.0	230,237,0	0.12	0.04	0.08	236,221,221	0.27	236	0.87	0.06	0.94
	0.07	0.03	0.0	236,233,0	0.12	0.02	0.02	236,221,221			1.00	0.04	0.96
1360	0.08	0.17	0.0	230,235,0	0.12	0.03	0.05	236,221,221	0.27	236	0.87	0.06	0.94
	0.07	0.03	0.0	240,237,0	0.12	0.02	0.02	236,221,221			1.00	0.04	0.96
1362	0.03	0.16	0.0	230,100,0	0.10	0.02	0.04	236,221,224	0.24	236	0.87	0.06	0.94
	0.02	7.11e-03	0.0	237,240,0	0.10	5.94e-03	5.94e-03	236,221,221			1.00	0.04	0.96
1364	0.03	0.19	0.0	221,100,0	0.10	0.02	0.05	236,221,224	0.24	236	0.87	0.06	0.94
	0.02	0.03	0.0	218,221,0	0.10	0.03	0.03	236,221,221			1.00	0.04	0.96
1366	0.03	0.19	0.0	221,100,0	0.13	0.03	0.06	100,221,224	0.28	100	0.87	0.06	0.94
	0.02	0.08	0.0	218,100,0	0.13	0.03	0.03	100,221,221			1.00	0.04	0.96
1368	0.02	0.19	0.0	221,100,0	0.13	0.03	0.06	100,221,224	0.28	100	0.87	0.06	0.94
	9.45e-03	0.08	0.0	221,100,0	0.13	0.02	0.02	100,221,221			1.00	0.04	0.96
1370	0.0	0.17	0.0	0,100,0	0.02	0.02	0.03	100,221,100	0.10	100	0.0	0.0	0.0
	0.0	0.07	0.0	0,100,0	0.02	6.20e-03	6.20e-03	100,224,224			0.0	0.0	0.0

1976	0.12	0.19	0.0	230,237,0	0.30	0.04	0.08236,221,221	0.42	236	0.87	0.06	0.94
	0.09	0.03	0.0	99,233,0	0.30	0.02	0.02236,221,221			1.00	0.04	0.96
1977	0.08	0.17	0.0	230,235,0	0.30	0.03	0.05236,221,221	0.42	236	0.87	0.06	0.94
	0.09	0.03	0.0	99,237,0	0.30	0.02	0.02236,221,221			1.00	0.04	0.96
1978	0.03	0.16	0.0	230,100,0	0.28	0.02	0.04236,221,224	0.41	236	0.87	0.06	0.94
	0.02	9.77e-03	0.0	221,224,0	0.28	5.94e-03	5.94e-03236,221,221			1.00	0.04	0.96
1979	0.05	0.15	0.0	234,239,0	0.30	9.66e-03	0.02236,221,219	0.42	236	0.87	0.06	0.94
	0.09	0.02	0.0	99,237,0	0.30	6.68e-03	6.68e-03236,221,221			1.00	0.04	0.96
1980	0.03	0.14	0.0	234,239,0	0.30	7.64e-03	0.02236,221,219	0.42	236	0.87	0.06	0.94
	0.09	0.02	0.0	99,237,0	0.30	6.68e-03	6.68e-03236,221,221			1.00	0.04	0.96
1981	0.02	0.13	0.0	226,100,0	0.29	7.64e-03	0.02236,221,219	0.41	236	0.87	0.06	0.94
	0.02	0.01	0.0	221,224,0	0.29	3.69e-03	3.69e-03236,221,221			1.00	0.04	0.96
1982	0.0	0.11	0.0	0,100,0	0.28	9.50e-03	0.02236,224,223	0.41	236	0.0	0.0	0.0
	0.06	0.01	0.0	99,237,0	0.28	6.68e-03	6.68e-03236,221,221			1.00	0.04	0.96
1983	0.0	0.11	0.0	0,100,0	0.29	4.88e-03	0.02236,220,223	0.41	236	0.0	0.0	0.0
	0.06	0.01	0.0	99,237,0	0.29	6.68e-03	6.68e-03236,221,221			1.00	0.04	0.96
1984	0.0	0.10	0.0	0,100,0	0.29	2.35e-03	0.02236,221,223	0.41	236	0.0	0.0	0.0
	0.01	0.01	0.0	221,224,0	0.29	3.44e-03	3.44e-03236,221,221			1.00	0.04	0.96
1985	0.08	0.13	0.0	233,236,0	0.24	6.68e-03	0.02236,217,238	0.37	236	0.87	0.06	0.94
	0.03	4.17e-03	0.0	99,237,0	0.24	3.85e-03	3.85e-03236,221,221			1.00	0.04	0.96
1986	0.04	0.09	0.0	237,240,0	0.26	3.98e-03	0.01236,219,220	0.39	236	0.87	0.06	0.94
	0.03	4.33e-03	0.0	99,235,0	0.26	3.85e-03	3.85e-03236,221,221			1.00	0.04	0.96
1987	8.56e-03	0.07	0.0	221,100,0	0.26	1.71e-03	0.01236,223,224	0.39	236	0.87	0.06	0.94
	0.02	0.01	0.0	233,236,0	0.26	2.45e-03	2.45e-03236,221,221			1.00	0.04	0.96
1988	0.03	0.19	0.0	221,100,0	0.27	0.02	0.05236,221,224	0.40	236	0.87	0.06	0.94
	0.04	0.05	0.0	218,237,0	0.27	0.03	0.03236,221,221			1.00	0.04	0.96
1989	0.03	0.19	0.0	221,100,0	0.23	0.03	0.06236,221,224	0.36	236	0.87	0.06	0.94
	0.04	0.08	0.0	218,100,0	0.23	0.03	0.03236,221,221			1.00	0.04	0.96
1990	0.01	0.12	0.0	218,100,0	0.28	7.27e-03	0.02236,221,219	0.41	236	0.87	0.06	0.94
	0.05	0.05	0.0	240,237,0	0.28	6.84e-03	6.84e-03236,221,221			1.00	0.04	0.96
1991	0.01	0.12	0.0	218,100,0	0.24	4.68e-03	0.02236,217,219	0.38	236	0.87	0.06	0.94
	0.05	0.07	0.0	240,100,0	0.24	6.84e-03	6.84e-03236,221,221			1.00	0.04	0.96
1992	0.0	0.09	0.0	0,100,0	0.28	2.88e-03	0.01236,217,219	0.41	236	0.0	0.0	0.0
	0.08	0.07	0.0	234,235,0	0.28	6.84e-03	6.84e-03236,221,221			1.00	0.04	0.96
1993	0.0	0.08	0.0	0,100,0	0.24	3.85e-03	0.01236,219,219	0.38	236	0.0	0.0	0.0
	0.08	0.08	0.0	234,235,0	0.24	6.84e-03	6.84e-03236,221,221			1.00	0.04	0.96
1994	0.04	0.07	0.0	234,235,0	0.25	2.88e-03	0.01236,217,224	0.39	236	0.87	0.06	0.94
	0.12	0.09	0.0	236,233,0	0.25	4.68e-03	4.68e-03236,221,221			1.00	0.04	0.96
1995	0.04	0.07	0.0	234,235,0	0.23	4.79e-03	0.01236,219,219	0.37	236	0.87	0.06	0.94
	0.14	0.11	0.0	236,233,0	0.23	4.68e-03	4.68e-03236,221,221			1.00	0.04	0.96
1996	0.02	0.19	0.0	221,100,0	0.13	0.03	0.06240,221,224	0.28	240	0.87	0.06	0.94
	0.03	0.08	0.0	218,100,0	0.13	0.02	0.02240,221,221			1.00	0.04	0.96
1997	0.0	0.17	0.0	0,100,0	0.05	0.02	0.03240,221,100	0.17	240	0.0	0.0	0.0
	0.0	0.07	0.0	0,100,0	0.05	6.20e-03	6.20e-03240,224,224			0.0	0.0	0.0
1998	0.01	0.11	0.0	218,100,0	0.13	0.01	0.02240,221,224	0.28	240	0.87	0.06	0.94
	0.03	0.07	0.0	226,100,0	0.13	6.07e-03	6.07e-03240,221,221			1.00	0.04	0.96
1999	0.0	0.10	0.0	0,100,0	0.05	0.01	0.02240,221,224	0.17	240	0.0	0.0	0.0
	2.33e-03	0.06	0.0	218,100,0	0.05	4.29e-03	4.29e-03240,224,224			1.00	0.04	0.96
2000	0.0	0.07	0.0	0,100,0	0.11	7.19e-03	0.01236,224,219	0.26	236	0.0	0.0	0.0
	0.08	0.08	0.0	234,235,0	0.11	6.07e-03	6.07e-03236,221,221			1.00	0.04	0.96
2001	0.0	0.06	0.0	0,100,0	0.04	7.19e-03	0.01236,224,219	0.16	236	0.0	0.0	0.0
	2.33e-03	0.04	0.0	218,100,0	0.04	3.56e-03	3.56e-03236,221,221			1.00	0.04	0.96
2002	0.03	0.06	0.0	234,235,0	0.07	6.23e-03	0.01236,219,219	0.20	236	0.87	0.06	0.94
	0.14	0.11	0.0	236,233,0	0.07	4.61e-03	4.61e-03236,221,221			1.00	0.04	0.96
2003	0.0	0.05	0.0	0,100,0	0.03	6.23e-03	0.01236,219,219	0.13	236	0.0	0.0	0.0
	2.31e-03	0.03	0.0	218,100,0	0.03	3.07e-03	3.07e-03236,221,221			1.00	0.04	0.96
2004	0.04	0.07	0.0	234,235,0	0.19	4.79e-03	0.01236,219,219	0.33	236	0.87	0.06	0.94
	0.14	0.11	0.0	236,233,0	0.19	3.25e-03	3.25e-03236,221,221			1.00	0.04	0.96
2005	0.03	0.06	0.0	234,235,0	0.02	6.23e-03	0.01233,219,219	0.12	233	0.87	0.06	0.94
	0.14	0.11	0.0	236,233,0	0.02	3.25e-03	3.25e-03233,221,221			1.00	0.04	0.96
2006	0.0	0.03	0.0	0,100,0	0.02	6.23e-03	0.01233,219,219	0.12	233	0.0	0.0	0.0
	0.0	0.02	0.0	0,100,0	0.02	1.37e-03	1.37e-03233,209,209			0.0	0.0	0.0
2027	0.08	0.13	0.0	233,236,0	0.11	5.81e-03	0.02233,217,238	0.25	233	0.87	0.06	0.94
	1.56e-03	2.44e-03	0.0	211,105,0	0.11	5.63e-04	5.63e-04233,231,231			1.00	0.04	0.96
2558	0.08	0.13	0.0	233,236,0	0.11	5.81e-03	0.02236,217,238	0.25	236	0.87	0.06	0.94
	5.97e-03	2.44e-03	0.0	99,105,0	0.11	9.61e-04	9.61e-04236,100,100			1.00	0.04	0.96
2559	8.56e-03	0.06	0.0	221,100,0	0.12	1.71e-03	0.01236,223,224	0.27	236	0.87	0.06	0.94
	0.02	0.01	0.0	233,236,0	0.12	1.23e-03	1.23e-03236,221,221			1.00	0.04	0.96
2560	0.04	0.07	0.0	234,235,0	0.19	8.82e-04	0.01236,217,223	0.33	236	0.87	0.06	0.94
	0.12	0.09	0.0	236,233,0	0.19	3.15e-03	3.15e-03236,221,221			1.00	0.04	0.96
2573	0.04	0.09	0.0	237,240,0	0.12	3.65e-03	0.01236,218,224	0.27	236	0.87	0.06	0.94
	5.97e-03	4.33e-03	0.0	99,235,0	0.12	9.61e-04	9.61e-04236,100,100			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.14	0.19	0.0	0.30	0.04	0.08	0.42

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
59	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
338	4.39e-03	5.13e-03	0.0	233,236,0	0.13	6.08e-04	3.46e-03228,209,44		0.28	228	0.36	0.13	0.87
	0.01	0.02	0.0	228,225,0	0.13	4.28e-03	4.28e-03228,209,209				1.00	0.04	0.96
383	0.01	9.08e-03	0.0	228,225,0	0.24	8.39e-04	1.67e-03225,221,220		0.38	225	0.36	0.13	0.87
	0.09	0.08	0.0	225,228,0	0.24	5.98e-03	5.98e-03 225,47,47				1.00	0.04	0.96
384	1.54e-03	2.24e-03	0.0	221,224,0	0.08	8.39e-04	1.67e-03225,221,220		0.22	225	0.36	0.13	0.87
	0.09	0.08	0.0	225,228,0	0.08	5.98e-03	5.98e-03 225,47,47				1.00	0.04	0.96
1450	0.04	0.02	0.0	225,228,0	0.09	1.96e-03	3.55e-03225,217,212		0.23	225	0.36	0.13	0.87
	0.32	0.22	0.0	225,228,0	0.09	0.01	0.01 225,43,43				1.00	0.04	0.96
1451	0.20	0.13	0.0	225,228,0	0.12	4.81e-03	0.02225,209,228		0.27	225	0.36	0.13	0.87
	0.32	0.22	0.0	225,228,0	0.12	0.01	0.01 225,43,43				1.00	0.04	0.96
1477	0.01	0.01	0.0	233,236,0	0.13	9.17e-04	3.46e-03 228,44,44		0.28	228	0.36	0.13	0.87
	0.12	0.11	0.0	228,225,0	0.13	4.28e-03	4.28e-03228,209,209				1.00	0.04	0.96
1479	0.01	0.03	0.0	228,225,0	0.11	6.55e-03	9.20e-03225,209,209		0.25	225	0.36	0.13	0.87
	0.12	0.11	0.0	228,225,0	0.11	0.02	0.02225,210,210				1.00	0.04	0.96
3199	0.20	0.13	0.0	225,228,0	0.24	4.81e-03	0.02225,209,228		0.38	225	0.36	0.13	0.87
	0.32	0.22	0.0	225,228,0	0.24	0.01	0.01 225,43,43				1.00	0.04	0.96
3200	0.20	0.13	0.0	225,228,0	0.16	4.81e-03	0.02225,209,228		0.31	225	0.36	0.13	0.87
	1.70e-03	7.76e-03	0.0	230,44,0	0.16	3.67e-03	3.67e-03225,210,210				1.00	0.04	0.96
3205	4.39e-03	5.13e-03	0.0	233,236,0	0.19	6.08e-04	3.46e-03225,209,44		0.34	225	0.36	0.13	0.87
	0.04	0.02	0.0	225,225,0	0.19	4.28e-03	4.28e-03225,209,209				1.00	0.04	0.96
3206	0.03	0.03	0.0	225,228,0	0.19	6.55e-03	9.20e-03225,209,209		0.34	225	0.36	0.13	0.87
	0.12	0.11	0.0	228,225,0	0.19	0.02	0.02225,210,210				1.00	0.04	0.96
3207	0.01	9.08e-03	0.0	228,225,0	0.24	3.32e-04	1.92e-03225,225,43		0.38	225	0.36	0.13	0.87
	0.05	0.04	0.0	228,225,0	0.24	1.67e-03	1.67e-03 225,44,44				1.00	0.04	0.96
3208	0.09	0.06	0.0	225,228,0	0.24	2.31e-03	8.05e-03225,43,230		0.38	225	0.36	0.13	0.87
	0.05	0.04	0.0	228,225,0	0.24	2.21e-03	2.21e-03225,212,212				1.00	0.04	0.96
3209	0.03	0.03	0.0	225,228,0	0.13	6.55e-03	9.20e-03225,209,209		0.28	225	0.36	0.13	0.87
	7.06e-03	1.04e-03	0.0	100,214,0	0.13	0.02	0.02225,210,210				1.00	0.04	0.96
3210	0.09	0.06	0.0	225,228,0	0.16	2.31e-03	8.05e-03225,43,230		0.31	225	0.36	0.13	0.87
	7.06e-03	3.06e-03	0.0	100,44,0	0.16	2.21e-03	2.21e-03225,212,212				1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.32	0.22	0.0	0.24	0.02	0.02	0.38

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
60	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.72	-36.6	207	0.41	-20.8	203	0.78	795.9	7.097e+05	234

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
727	0.04	0.06	0.0	222,223,0	0.15	1.86e-03	0.01235,221,219		0.30	235	0.87	0.06	0.94
	0.02	0.01	0.0	236,233,0	0.15	6.39e-04	6.39e-04235,218,218				1.00	0.04	0.96
728	0.05	0.06	0.0	233,236,0	0.19	1.47e-03	0.01235,223,224		0.34	235	0.87	0.06	0.94
	0.10	0.07	0.0	233,236,0	0.19	9.67e-04	9.67e-04235,219,219				1.00	0.04	0.96
731	0.05	0.06	0.0	233,236,0	0.19	5.56e-03	0.01235,217,224		0.34	235	0.87	0.06	0.94
	0.10	0.07	0.0	233,236,0	0.19	1.94e-03	1.94e-03235,218,218				1.00	0.04	0.96
733	0.04	0.05	0.0	233,236,0	0.02	6.81e-03	0.01235,220,224		0.12	235	0.87	0.06	0.94
	0.09	0.07	0.0	233,236,0	0.02	1.94e-03	1.94e-03235,218,218				1.00	0.04	0.96
751	0.02	0.03	0.0	221,224,0	0.02	6.81e-03	0.01235,220,220		0.11	235	0.87	0.06	0.94
	0.04	0.03	0.0	234,235,0	0.02	7.25e-04	7.25e-04235,212,212				1.00	0.04	0.96
768	0.10	0.11	0.0	234,235,0	0.06	8.69e-03	0.02233,219,223		0.19	233	0.87	0.06	0.94
	0.01	0.01	0.0	215,214,0	0.06	4.00e-03	4.00e-03233,219,219				1.00	0.04	0.96
770	0.10	0.11	0.0	234,235,0	0.12	8.69e-03	0.02235,219,223		0.27	235	0.87	0.06	0.94
	0.06	0.04	0.0	235,234,0	0.12	0.01	0.01235,223,223				1.00	0.04	0.96
772	0.09	0.10	0.0	221,224,0	0.12	0.01	0.03235,217,224		0.27	235	0.87	0.06	0.94

	0.09	0.06	0.0 235,234,0	0.12	0.01	0.01235,223,223			1.00	0.04	0.96
774	0.09	0.10	0.0 221,224,0	0.02	0.01	0.03235,217,224	0.11	235	0.87	0.06	0.94
	0.09	0.06	0.0 235,234,0	0.02	0.01	0.01235,223,223			1.00	0.04	0.96
2010	0.10	0.11	0.0 234,235,0	0.14	8.69e-03	0.02235,219,223	0.28	235	0.87	0.06	0.94
	0.02	0.01	0.0 235,234,0	0.14	4.00e-03	4.00e-03235,219,219			1.00	0.04	0.96
2011	0.06	0.08	0.0 234,235,0	0.15	3.78e-03	0.01235,221,223	0.30	235	0.87	0.06	0.94
	0.02	0.01	0.0 235,234,0	0.15	2.76e-03	2.76e-03235,223,223			1.00	0.04	0.96
2013	0.10	0.11	0.0 234,235,0	0.28	8.69e-03	0.02235,219,223	0.40	235	0.87	0.06	0.94
	0.06	0.04	0.0 235,234,0	0.28	0.01	0.01235,223,223			1.00	0.04	0.96
2014	0.06	0.08	0.0 234,235,0	0.28	3.78e-03	0.01235,221,223	0.40	235	0.87	0.06	0.94
	0.06	0.04	0.0 235,234,0	0.28	4.43e-03	4.43e-03235,223,223			1.00	0.04	0.96
2015	0.04	0.06	0.0 222,223,0	0.27	3.56e-03	0.01235,223,219	0.40	235	0.87	0.06	0.94
	0.02	0.01	0.0 236,233,0	0.27	4.43e-03	4.43e-03235,223,223			1.00	0.04	0.96
2016	0.09	0.10	0.0 221,224,0	0.28	0.03	0.04235,223,223	0.40	235	0.87	0.06	0.94
	0.09	0.06	0.0 235,234,0	0.28	0.01	0.01235,223,223			1.00	0.04	0.96
2017	0.05	0.07	0.0 221,224,0	0.28	0.03	0.04235,223,223	0.40	235	0.87	0.06	0.94
	0.07	0.05	0.0 235,234,0	0.28	0.01	0.01235,223,223			1.00	0.04	0.96
2018	0.03	0.05	0.0 221,240,0	0.27	3.90e-03	0.01235,223,220	0.40	235	0.87	0.06	0.94
	0.02	0.01	0.0 234,235,0	0.27	4.43e-03	4.43e-03235,223,223			1.00	0.04	0.96
2019	0.09	0.10	0.0 221,224,0	0.16	0.03	0.04235,223,223	0.31	235	0.87	0.06	0.94
	0.09	0.06	0.0 235,234,0	0.16	0.01	0.01235,223,223			1.00	0.04	0.96
2020	0.05	0.07	0.0 221,224,0	0.16	0.03	0.04235,223,223	0.31	235	0.87	0.06	0.94
	0.07	0.05	0.0 235,234,0	0.16	0.01	0.01235,223,223			1.00	0.04	0.96
2021	0.03	0.05	0.0 237,240,0	0.15	3.90e-03	9.00e-03235,223,224	0.30	235	0.87	0.06	0.94
	0.02	0.01	0.0 234,235,0	0.15	3.97e-03	3.97e-03235,215,215			1.00	0.04	0.96
2028	0.05	0.06	0.0 233,236,0	0.26	1.62e-03	0.01235,223,224	0.39	235	0.87	0.06	0.94
	0.10	0.07	0.0 233,236,0	0.26	1.76e-03	1.76e-03235,222,222			1.00	0.04	0.96
2029	0.05	0.06	0.0 233,236,0	0.22	5.56e-03	0.01235,217,224	0.36	235	0.87	0.06	0.94
	0.10	0.07	0.0 233,236,0	0.22	1.94e-03	1.94e-03235,218,218			1.00	0.04	0.96
2030	0.03	0.05	0.0 222,223,0	0.26	1.76e-03	9.17e-03235,209,220	0.39	235	0.87	0.06	0.94
	0.06	0.04	0.0 235,234,0	0.26	1.76e-03	1.76e-03235,222,222			1.00	0.04	0.96
2031	0.03	0.05	0.0 222,223,0	0.22	5.14e-03	0.01235,222,223	0.36	235	0.87	0.06	0.94
	0.06	0.04	0.0 235,234,0	0.22	3.15e-03	3.15e-03235,222,222			1.00	0.04	0.96
2032	0.01	0.04	0.0 213,216,0	0.15	1.76e-03	6.07e-03235,209,212	0.30	235	0.87	0.06	0.94
	0.02	0.02	0.0 235,234,0	0.15	1.72e-03	1.72e-03235,218,218			1.00	0.04	0.96
2033	6.51e-03	0.03	0.0 238,239,0	0.12	5.14e-03	0.01235,222,223	0.27	235	0.87	0.06	0.94
	0.02	0.02	0.0 235,223,0	0.12	3.15e-03	3.15e-03235,222,222			1.00	0.04	0.96
2040	0.04	0.05	0.0 233,236,0	0.07	6.81e-03	0.01235,220,224	0.21	235	0.87	0.06	0.94
	0.09	0.07	0.0 233,236,0	0.07	1.94e-03	1.94e-03235,218,218			1.00	0.04	0.96
2041	0.02	0.04	0.0 222,223,0	0.03	6.81e-03	0.01235,220,220	0.13	235	0.87	0.06	0.94
	0.04	0.03	0.0 234,239,0	0.03	1.72e-03	1.72e-03235,218,218			1.00	0.04	0.96
2042	0.03	0.05	0.0 222,223,0	0.07	9.16e-03	0.01235,218,219	0.21	235	0.87	0.06	0.94
	0.05	0.04	0.0 238,239,0	0.07	4.41e-03	4.41e-03235,222,222			1.00	0.04	0.96
2043	0.02	0.04	0.0 222,223,0	0.03	9.16e-03	0.01235,218,219	0.13	235	0.87	0.06	0.94
	0.05	0.04	0.0 238,239,0	0.03	4.41e-03	4.41e-03235,222,222			1.00	0.04	0.96
2044	0.01	0.03	0.0 234,235,0	0.05	9.16e-03	0.01235,218,219	0.17	235	0.87	0.06	0.94
	0.05	0.04	0.0 238,239,0	0.05	4.41e-03	4.41e-03235,222,222			1.00	0.04	0.96
2045	0.01	0.03	0.0 234,235,0	5.14e-03	9.16e-03	0.01235,218,219	0.06	235	0.87	0.06	0.94
	0.05	0.04	0.0 238,239,0	5.13e-03	4.41e-03	4.41e-03235,222,222			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.10	0.11	0.0	0.28	0.03	0.04	0.40

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
61	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2860	0.08	0.07	0.0 228,225,0		0.09	4.51e-03	0.01225,211,213		0.23	225	0.33	0.14	0.86
	0.03	0.03	0.0 228,225,0		0.09	4.94e-03	4.94e-03225,211,211				1.00	0.04	0.96
2871	0.08	0.07	0.0 228,225,0		0.09	4.51e-03	0.01225,211,213		0.23	225	0.33	0.14	0.86
	0.03	0.03	0.0 228,225,0		0.09	0.01	0.01 225,42,42				1.00	0.04	0.96
2872	0.01	0.01	0.0 210,211,0		0.09	2.41e-03	4.81e-03 225,45,44		0.24	225	0.33	0.14	0.86
	0.02	0.03	0.0 228,35,0		0.09	0.01	0.01 225,42,42				1.00	0.04	0.96
2884	0.02	2.57e-03	0.0 213,216,0		0.04	4.58e-03	4.58e-03225,209,209		0.15	225	0.33	0.14	0.86
	0.05	0.03	0.0 225,228,0		0.04	5.34e-03	5.34e-03225,209,209				1.00	0.04	0.96
2888	0.02	0.01	0.0 226,227,0		0.05	4.58e-03	4.58e-03225,209,209		0.18	225	0.33	0.14	0.86

	0.05	0.03	0.0	225,228,0	0.05	8.08e-03	8.08e-03	225,211,211			1.00	0.04	0.96
2890	0.02	0.01	0.0	226,227,0	0.05	1.44e-03	2.36e-03	225,212,215	0.18	225	0.33	0.14	0.86
	0.03	0.03	0.0	231,230,0	0.05	8.08e-03	8.08e-03	225,211,211			1.00	0.04	0.96
3190	0.03	0.01	0.0	230,231,0	0.04	4.58e-03	9.29e-03	225,209,213	0.16	225	0.33	0.14	0.86
	0.05	0.03	0.0	225,228,0	0.04	5.34e-03	5.34e-03	225,209,209			1.00	0.04	0.96
3191	0.03	0.01	0.0	230,231,0	0.08	4.58e-03	9.29e-03	225,209,213	0.21	225	0.33	0.14	0.86
	0.05	0.03	0.0	225,228,0	0.08	8.08e-03	8.08e-03	225,211,211			1.00	0.04	0.96
3192	0.06	0.04	0.0	228,225,0	0.06	1.43e-03	0.01	225,211,213	0.19	225	0.33	0.14	0.86
	0.01	0.01	0.0	228,225,0	0.06	1.22e-04	1.22e-04	225,211,211			1.00	0.04	0.96
3193	0.06	0.04	0.0	228,225,0	0.09	1.46e-03	0.01	225,45,213	0.23	225	0.33	0.14	0.86
	0.01	0.02	0.0	228,107,0	0.09	1.30e-03	1.30e-03	225,209,209			1.00	0.04	0.96
3194	0.08	0.07	0.0	228,225,0	0.09	4.51e-03	0.01	225,211,213	0.23	225	0.33	0.14	0.86
	0.03	0.03	0.0	228,225,0	0.09	4.94e-03	4.94e-03	225,211,211			1.00	0.04	0.96
3195	0.08	0.07	0.0	228,225,0	0.09	4.51e-03	0.01	225,211,213	0.24	225	0.33	0.14	0.86
	0.03	0.03	0.0	228,225,0	0.09	0.01	0.01	225,42,42			1.00	0.04	0.96
3196	9.06e-03	6.61e-03	0.0	210,211,0	0.08	1.41e-03	3.14e-03	225,45,212	0.21	225	0.33	0.14	0.86
	0.0	0.03	0.0	0,105,0	0.08	4.74e-03	4.74e-03	225,209,209			0.0	0.0	0.0
3197	9.24e-03	7.69e-03	0.0	210,211,0	0.09	1.46e-03	3.21e-03	225,45,212	0.23	225	0.33	0.14	0.86
	0.0	0.02	0.0	0,107,0	0.09	1.30e-03	1.30e-03	225,209,209			0.0	0.0	0.0
3198	0.01	0.01	0.0	210,211,0	0.09	1.46e-03	3.21e-03	225,45,212	0.24	225	0.33	0.14	0.86
	0.0	0.03	0.0	0,107,0	0.09	2.64e-03	2.64e-03	225,43,43			0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.08	0.07	0.0	0.09	0.01	0.01	0.24

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
62	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.37	-153.7	203	0.25	-104.3	203	0.74	-2673.0	1.844e+06	236

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1648	6.65e-03	9.67e-03	0.0	209,105,0	0.02	1.35e-03	2.16e-03	234,232,228	0.11	234	0.87	0.06	0.94
	4.09e-03	1.84e-03	0.0	212,209,0	0.02	1.18e-03	1.18e-03	234,229,229			1.00	0.04	0.96
1891	0.01	0.06	0.0	234,107,0	0.08	1.81e-03	6.49e-03	235,211,239	0.21	235	0.87	0.06	0.94
	0.19	0.0	0.0	100,0,0	0.08	2.10e-03	2.10e-03	235,212,212			1.00	0.04	0.96
1943	0.02	0.02	0.0	233,236,0	0.03	4.32e-03	5.38e-03	235,210,210	0.14	235	0.87	0.06	0.94
	0.01	4.08e-03	0.0	212,209,0	0.03	1.18e-03	1.18e-03	235,229,229			1.00	0.04	0.96
1945	0.02	0.02	0.0	233,105,0	0.05	7.26e-03	9.63e-03	235,209,212	0.17	235	0.87	0.06	0.94
	0.01	4.08e-03	0.0	215,209,0	0.05	1.35e-03	1.35e-03	235,212,212			1.00	0.04	0.96
1947	8.89e-03	0.02	0.0	233,105,0	0.06	8.46e-03	0.01	235,212,212	0.18	235	0.87	0.06	0.94
	0.01	3.65e-03	0.0	215,209,0	0.06	1.35e-03	1.35e-03	235,212,212			1.00	0.04	0.96
1949	4.46e-03	0.02	0.0	213,105,0	0.07	8.46e-03	0.01	235,212,212	0.20	235	0.87	0.06	0.94
	0.02	1.83e-03	0.0	99,210,0	0.07	2.01e-03	2.01e-03	235,210,210			1.00	0.04	0.96
1951	0.0	0.03	0.0	0,105,0	0.07	8.30e-03	0.01	235,212,212	0.20	235	0.0	0.0	0.0
	0.02	1.56e-03	0.0	100,210,0	0.07	2.01e-03	2.01e-03	235,210,210			1.00	0.04	0.96
1953	0.0	0.03	0.0	0,105,0	0.08	8.16e-03	0.01	235,209,209	0.21	235	0.0	0.0	0.0
	0.03	0.0	0.0	100,0,0	0.08	1.66e-03	1.66e-03	235,215,215			1.00	0.04	0.96
1955	0.0	0.02	0.0	0,105,0	0.08	7.33e-03	9.86e-03	235,212,210	0.22	235	0.0	0.0	0.0
	0.05	0.0	0.0	100,0,0	0.08	1.66e-03	1.66e-03	235,215,215			1.00	0.04	0.96
1957	7.64e-04	0.02	0.0	224,107,0	0.08	7.29e-03	9.74e-03	235,211,210	0.22	235	0.87	0.06	0.94
	0.07	0.0	0.0	100,0,0	0.08	5.13e-04	5.13e-04	235,225,225			1.00	0.04	0.96
1959	1.32e-03	0.03	0.0	240,107,0	0.08	5.56e-03	8.04e-03	235,211,213	0.22	235	0.87	0.06	0.94
	0.10	0.0	0.0	100,0,0	0.08	5.76e-04	5.76e-04	235,210,210			1.00	0.04	0.96
1961	1.32e-03	0.04	0.0	240,107,0	0.08	4.01e-03	6.68e-03	235,212,213	0.22	235	0.87	0.06	0.94
	0.14	0.0	0.0	100,0,0	0.08	2.08e-03	2.08e-03	235,212,212			1.00	0.04	0.96
1973	0.12	0.06	0.0	99,107,0	0.02	1.96e-03	6.49e-03	237,223,239	0.11	237	0.87	0.06	0.94
	0.19	0.0	0.0	100,0,0	0.02	2.10e-03	2.10e-03	237,212,212			1.00	0.04	0.96
1975	0.12	0.04	0.0	99,108,0	2.04e-03	1.96e-03	4.18e-03	107,223,108	0.03	107	0.87	0.06	0.94
	0.13	0.0	0.0	100,0,0	2.04e-03	4.80e-04	4.80e-04	107,217,217			1.00	0.04	0.96
2132	0.01	0.02	0.0	212,105,0	0.06	5.17e-03	0.01	235,216,213	0.19	235	0.87	0.06	0.94
	0.07	0.0	0.0	99,0,0	0.06	3.49e-04	3.49e-04	235,210,210			1.00	0.04	0.96
2133	0.01	0.02	0.0	211,214,0	0.05	2.71e-03	9.69e-03	235,209,209	0.18	235	0.87	0.06	0.94
	0.04	4.62e-03	0.0	99,60,0	0.05	3.45e-04	3.45e-04	235,217,217			1.00	0.04	0.96
2134	6.96e-03	0.02	0.0	211,107,0	0.08	7.29e-03	9.89e-03	235,211,210	0.22	235	0.87	0.06	0.94
	0.10	0.0	0.0	99,0,0	0.08	6.80e-04	6.80e-04	235,210,210			1.00	0.04	0.96
2135	0.01	0.02	0.0	211,107,0	0.06	4.71e-03	9.89e-03	235,211,210	0.19	235	0.87	0.06	0.94
	0.10	0.0	0.0	99,0,0	0.06	1.10e-03	1.10e-03	235,210,210			1.00	0.04	0.96
2136	0.01	0.02	0.0	211,210,0	0.05	2.32e-03	8.72e-03	235,212,210	0.17	235	0.87	0.06	0.94

	0.04	4.91e-03	0.0	99,60,0	0.05	1.19e-03	1.19e-03	235,210,210			1.00	0.04	0.96
2137	6.13e-03	0.03	0.0	216,107,0	0.08	5.56e-03	8.30e-03	235,211,210	0.22	235	0.87	0.06	0.94
	0.13	0.0	0.0	99,0,0	0.08	2.13e-03	2.13e-03	235,209,209			1.00	0.04	0.96
2138	9.93e-03	0.03	0.0	216,107,0	0.05	3.81e-03	8.30e-03	235,211,210	0.18	235	0.87	0.06	0.94
	0.13	0.0	0.0	99,0,0	0.05	3.19e-03	3.19e-03	235,209,209			1.00	0.04	0.96
2139	0.01	0.02	0.0	211,107,0	0.04	1.74e-03	7.32e-03	235,212,210	0.16	235	0.87	0.06	0.94
	0.04	4.95e-03	0.0	99,60,0	0.04	3.54e-03	3.54e-03	235,209,209			1.00	0.04	0.96
2140	2.25e-03	0.04	0.0	216,107,0	0.08	4.01e-03	6.68e-03	235,212,213	0.22	235	0.87	0.06	0.94
	0.17	0.0	0.0	100,0,0	0.08	4.90e-03	4.90e-03	235,212,212			1.00	0.04	0.96
2141	5.26e-03	0.04	0.0	216,107,0	0.04	2.44e-03	6.05e-03	235,211,213	0.16	235	0.87	0.06	0.94
	0.17	0.0	0.0	100,0,0	0.04	6.52e-03	6.52e-03	235,209,209			1.00	0.04	0.96
2142	6.32e-03	0.03	0.0	216,107,0	0.03	1.17e-03	5.32e-03	235,211,210	0.14	235	0.87	0.06	0.94
	0.04	8.86e-03	0.0	99,214,0	0.03	7.36e-03	7.36e-03	235,209,209			1.00	0.04	0.96
2143	0.02	0.02	0.0	209,212,0	0.03	0.02	0.02234	212,212	0.12	234	0.87	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.03	0.01	0.01234	212,212			1.00	0.04	0.96
2144	0.02	0.02	0.0	209,212,0	0.02	0.01	0.02234	212,212	0.12	234	0.87	0.06	0.94
	0.01	0.01	0.0	212,220,0	0.02	7.32e-03	7.32e-03	234,212,212			1.00	0.04	0.96
2145	0.02	0.02	0.0	209,212,0	0.03	3.64e-03	9.57e-03	235,212,216	0.13	235	0.87	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.03	5.77e-03	5.77e-03	235,212,212			1.00	0.04	0.96
2146	0.01	0.02	0.0	213,105,0	0.03	4.70e-03	9.57e-03	235,209,216	0.13	235	0.87	0.06	0.94
	0.01	0.01	0.0	220,220,0	0.03	5.77e-03	5.77e-03	235,212,212			1.00	0.04	0.96
2147	0.02	0.02	0.0	209,212,0	0.04	3.64e-03	0.01235	212,210	0.15	235	0.87	0.06	0.94
	0.02	0.01	0.0	216,213,0	0.04	1.97e-03	1.97e-03	235,212,212			1.00	0.04	0.96
2148	0.01	0.02	0.0	211,105,0	0.04	5.81e-03	0.01235	209,212	0.15	235	0.87	0.06	0.94
	9.07e-03	7.89e-03	0.0	211,210,0	0.04	3.88e-03	3.88e-03	235,212,212			1.00	0.04	0.96
2149	0.02	0.02	0.0	209,212,0	0.05	3.63e-03	0.01235	212,212	0.17	235	0.87	0.06	0.94
	0.01	7.89e-03	0.0	211,210,0	0.05	1.01e-03	1.01e-03	235,212,212			1.00	0.04	0.96
2150	0.01	0.02	0.0	211,105,0	0.04	5.81e-03	0.01235	209,216	0.16	235	0.87	0.06	0.94
	9.07e-03	9.59e-03	0.0	211,57,0	0.04	9.76e-04	9.76e-04	235,220,220			1.00	0.04	0.96
2151	0.02	0.02	0.0	209,212,0	0.05	3.25e-03	0.01235	212,212	0.17	235	0.87	0.06	0.94
	0.01	9.13e-03	0.0	210,57,0	0.05	8.49e-04	8.49e-04	235,211,211			1.00	0.04	0.96
2152	0.01	0.02	0.0	209,212,0	0.05	5.57e-03	0.01235	209,212	0.17	235	0.87	0.06	0.94
	7.45e-03	0.01	0.0	211,105,0	0.05	6.65e-04	6.65e-04	235,211,211			1.00	0.04	0.96
2153	0.02	0.02	0.0	209,212,0	0.05	3.00e-03	0.01235	212,212	0.17	235	0.87	0.06	0.94
	0.01	0.01	0.0	211,105,0	0.05	3.61e-04	3.61e-04	235,211,211			1.00	0.04	0.96
2154	0.01	0.02	0.0	209,212,0	0.05	5.51e-03	0.01235	210,212	0.17	235	0.87	0.06	0.94
	5.80e-03	0.02	0.0	211,105,0	0.05	3.50e-04	3.50e-04	235,212,212			1.00	0.04	0.96
2155	0.01	0.02	0.0	211,214,0	0.05	2.58e-03	9.47e-03	235,212,209	0.17	235	0.87	0.06	0.94
	0.01	0.01	0.0	211,105,0	0.05	3.45e-04	3.45e-04	235,217,217			1.00	0.04	0.96
2279	0.01	0.02	0.0	211,105,0	0.05	5.16e-03	0.01235	212,209	0.17	235	0.87	0.06	0.94
	4.91e-03	0.02	0.0	211,107,0	0.05	2.66e-04	2.66e-04	235,221,221			1.00	0.04	0.96
2280	0.01	0.02	0.0	211,210,0	0.05	2.40e-03	8.96e-03	235,211,210	0.17	235	0.87	0.06	0.94
	0.01	0.02	0.0	211,105,0	0.05	1.19e-03	1.19e-03	235,210,210			1.00	0.04	0.96
2281	0.01	0.02	0.0	211,210,0	0.05	4.86e-03	9.50e-03	235,211,210	0.17	235	0.87	0.06	0.94
	4.48e-03	0.03	0.0	211,107,0	0.05	9.74e-04	9.74e-04	235,210,210			1.00	0.04	0.96
2282	0.01	0.02	0.0	211,213,0	0.04	1.87e-03	7.29e-03	235,211,210	0.16	235	0.87	0.06	0.94
	0.01	0.02	0.0	99,105,0	0.04	3.54e-03	3.54e-03	235,209,209			1.00	0.04	0.96
2283	0.01	0.02	0.0	211,210,0	0.04	3.88e-03	7.94e-03	235,211,210	0.16	235	0.87	0.06	0.94
	2.82e-03	0.04	0.0	211,107,0	0.04	3.15e-03	3.15e-03	235,209,209			1.00	0.04	0.96
2284	6.32e-03	0.03	0.0	216,107,0	0.03	1.18e-03	5.09e-03	235,211,210	0.14	235	0.87	0.06	0.94
	0.02	0.02	0.0	215,105,0	0.03	7.36e-03	7.36e-03	235,209,209			1.00	0.04	0.96
2285	5.88e-03	0.03	0.0	216,107,0	0.03	2.61e-03	5.49e-03	235,211,210	0.14	235	0.87	0.06	0.94
	8.69e-03	0.05	0.0	215,107,0	0.03	6.93e-03	6.93e-03	235,209,209			1.00	0.04	0.96
2286	0.02	0.03	0.0	209,105,0	0.02	0.02	0.02234	212,212	0.12	234	0.87	0.06	0.94
	0.01	0.01	0.0	212,220,0	0.02	7.32e-03	7.32e-03	234,212,212			1.00	0.04	0.96
2287	0.0	0.03	0.0	0,105,0	0.02	0.01	0.01234	212,212	0.12	234	0.0	0.0	0.0
	7.46e-03	6.24e-03	0.0	212,209,0	0.02	1.75e-03	1.75e-03	234,212,212			1.00	0.04	0.96
2292	2.42e-03	0.06	0.0	234,107,0	0.08	5.74e-04	6.86e-03	107,210,107	0.21	107	0.87	0.06	0.94
	0.02	0.02	0.0	215,105,0	0.08	7.36e-03	7.36e-03	107,209,209			1.00	0.04	0.96
2293	2.00e-03	0.06	0.0	234,107,0	0.09	1.19e-03	6.32e-03	107,211,107	0.24	107	0.87	0.06	0.94
	0.01	0.07	0.0	212,107,0	0.09	6.93e-03	6.93e-03	107,209,209			1.00	0.04	0.96
2295	8.37e-03	0.02	0.0	209,105,0	0.03	9.14e-03	0.01235	212,212	0.13	235	0.87	0.06	0.94
	0.01	0.01	0.0	220,220,0	0.03	4.95e-03	4.95e-03	235,212,212			1.00	0.04	0.96
2298	0.01	0.08	0.0	234,107,0	0.11	1.81e-03	8.24e-03	100,211,107	0.25	100	0.87	0.06	0.94
	0.21	0.0	0.0	100,0,0	0.11	4.90e-03	4.90e-03	100,212,212			1.00	0.04	0.96
2305	2.38e-03	0.08	0.0	234,107,0	0.11	1.19e-03	8.24e-03	100,211,107	0.25	100	0.87	0.06	0.94
	0.21	0.0	0.0	100,0,0	0.11	6.52e-03	6.52e-03	100,209,209			1.00	0.04	0.96
2306	2.42e-03	0.07	0.0	234,107,0	0.07	4.25e-04	7.48e-03	100,211,107	0.21	100	0.87	0.06	0.94
	0.04	9.59e-03	0.0	99,209,0	0.07	7.36e-03	7.36e-03	100,209,209			1.00	0.04	0.96
2307	1.10e-03	0.01	0.0	211,105,0	0.05	6.15e-03	8.01e-03	235,211,210	0.17	235	0.87	0.06	0.94
	0.0	0.03	0.0	0,107,0	0.05	4.63e-04	4.63e-04	235,210,210			0.0	0.0	0.0
2308	4.08e-03	0.02	0.0	216,107,0	0.04	4.45e-03	5.71e-03	235,211,211	0.15	235	0.87	0.06	0.94
	0.0	0.05	0.0	0,107,0	0.04	5.12e-03	5.12e-03	235,209,209			0.0	0.0	0.0
2309	1.82e-03	0.05	0.0	214,107,0	0.09	2.75e-03	6.34e-03	107,211,107	0.24	107	0.87	0.06	0.94
	0.0	0.07	0.0	0,107,0	0.09	5.12e-03	5.12e-03	107,209,209			0.0	0.0	0.0
2310	0.0	0.05	0.0	0,107,0	0.02	2.75e-03	6.34e-03	235,211,107	0.11	235	0.0	0.0	0.0
	0.0	0.06	0.0	0,107,0	0.02	2.68e-03	2.68e-03	235,210,210			0.0	0.0	0.0

2311	0.02	0.02	0.0	233,236,0	0.03	5.44e-03	7.46e-03	235,212,212	0.14	235	0.87	0.06	0.94
	0.03	0.01	0.0	212,209,0	0.03	7.20e-03	7.20e-03	235,212,212			1.00	0.04	0.96
2312	0.0	0.02	0.0	0,107,0	0.04	4.45e-03	5.71e-03	235,211,211	0.15	235	0.0	0.0	0.0
	0.0	0.04	0.0	0,107,0	0.04	1.81e-03	1.81e-03	235,214,214			0.0	0.0	0.0
2313	0.12	0.08	0.0	99,107,0	0.35	1.96e-03	8.24e-03	100,223,107	0.45	100	0.87	0.06	0.94
	0.21	0.0	0.0	100,0,0	0.35	4.82e-03	4.82e-03	100,209,209			1.00	0.04	0.96
2314	0.07	0.08	0.0	103,105,0	0.35	7.89e-04	8.72e-03	100,219,105	0.45	100	0.87	0.06	0.94
	0.21	0.0	0.0	100,0,0	0.35	6.33e-03	6.33e-03	100,209,209			1.00	0.04	0.96
2315	0.04	0.10	0.0	103,105,0	0.11	3.32e-04	0.01	100,231,105	0.26	100	0.87	0.06	0.94
	0.04	9.59e-03	0.0	99,209,0	0.11	7.08e-03	7.08e-03	100,209,209			1.00	0.04	0.96
2316	0.12	0.06	0.0	99,105,0	0.35	1.96e-03	6.55e-03	100,223,105	0.45	100	0.87	0.06	0.94
	0.13	0.0	0.0	100,0,0	0.35	1.36e-03	1.36e-03	100,209,209			1.00	0.04	0.96
2317	0.0	0.02	0.0	0,105,0	0.03	9.14e-03	0.01	235,212,212	0.12	235	0.0	0.0	0.0
	6.15e-03	6.05e-03	0.0	212,209,0	0.03	1.49e-03	1.49e-03	235,212,212			1.00	0.04	0.96
2318	6.95e-03	0.02	0.0	211,105,0	0.04	8.04e-03	0.01	235,210,212	0.15	235	0.87	0.06	0.94
	3.80e-03	7.50e-03	0.0	211,57,0	0.04	3.88e-03	3.88e-03	235,212,212			1.00	0.04	0.96
2319	0.0	0.02	0.0	0,105,0	0.04	8.04e-03	0.01	235,210,210	0.15	235	0.0	0.0	0.0
	1.20e-03	4.79e-03	0.0	215,59,0	0.04	1.49e-03	1.49e-03	235,212,212			1.00	0.04	0.96
2320	0.07	0.08	0.0	103,105,0	0.35	7.89e-04	8.72e-03	100,219,105	0.45	100	0.87	0.06	0.94
	0.13	0.0	0.0	100,0,0	0.35	2.13e-03	2.13e-03	100,209,209			1.00	0.04	0.96
2321	0.04	0.10	0.0	103,105,0	0.11	3.32e-04	0.01	100,231,105	0.26	100	0.87	0.06	0.94
	0.02	2.62e-03	0.0	99,105,0	0.11	2.36e-03	2.36e-03	100,209,209			1.00	0.04	0.96
2322	0.02	0.11	0.0	103,105,0	0.08	2.49e-04	0.01	107,210,105	0.22	107	0.87	0.06	0.94
	0.02	0.01	0.0	215,105,0	0.08	7.08e-03	7.08e-03	107,209,209			1.00	0.04	0.96
2323	0.0	0.13	0.0	0,105,0	0.17	8.20e-04	0.01	107,223,105	0.31	107	0.0	0.0	0.0
	0.01	0.07	0.0	212,107,0	0.17	6.65e-03	6.65e-03	107,209,209			1.00	0.04	0.96
2324	0.01	0.02	0.0	213,105,0	0.03	5.44e-03	8.33e-03	234,212,212	0.12	234	0.87	0.06	0.94
	0.04	0.02	0.0	212,209,0	0.03	0.02	0.02	234,212,212			1.00	0.04	0.96
2326	0.02	0.11	0.0	103,105,0	0.08	1.74e-04	0.01	107,223,105	0.22	107	0.87	0.06	0.94
	5.43e-03	0.01	0.0	215,105,0	0.08	2.36e-03	2.36e-03	107,209,209			1.00	0.04	0.96
2327	0.0	0.13	0.0	0,105,0	0.17	8.20e-04	0.01	107,223,105	0.31	107	0.0	0.0	0.0
	0.0	0.07	0.0	0,107,0	0.17	2.10e-03	2.10e-03	107,213,213			0.0	0.0	0.0
2328	7.48e-03	0.02	0.0	213,105,0	0.04	8.14e-03	0.01	235,213,216	0.16	235	0.87	0.06	0.94
	3.80e-03	9.59e-03	0.0	211,57,0	0.04	9.76e-04	9.76e-04	235,220,220			1.00	0.04	0.96
2329	0.0	0.02	0.0	0,105,0	0.04	8.14e-03	0.01	235,213,216	0.16	235	0.0	0.0	0.0
	1.78e-03	5.74e-03	0.0	211,107,0	0.04	3.70e-04	3.70e-04	235,227,227			1.00	0.04	0.96
2330	0.0	0.14	0.0	0,105,0	0.17	2.29e-03	0.02	107,223,105	0.31	107	0.0	0.0	0.0
	0.0	0.07	0.0	0,107,0	0.17	4.84e-03	4.84e-03	107,213,213			0.0	0.0	0.0
2332	0.01	0.02	0.0	213,216,0	0.03	0.02	0.02	234,212,212	0.12	234	0.87	0.06	0.94
	0.04	0.02	0.0	212,209,0	0.03	0.02	0.02	234,212,212			1.00	0.04	0.96
2333	0.02	0.02	0.0	233,105,0	0.05	7.26e-03	0.01	235,209,212	0.17	235	0.87	0.06	0.94
	0.03	0.01	0.0	212,209,0	0.05	2.55e-03	2.55e-03	235,212,212			1.00	0.04	0.96
2334	0.02	0.02	0.0	209,212,0	0.04	5.60e-03	0.01	235,212,212	0.15	235	0.87	0.06	0.94
	0.04	0.02	0.0	212,209,0	0.04	3.57e-03	3.57e-03	235,212,212			1.00	0.04	0.96
2335	0.0	0.14	0.0	0,105,0	0.02	2.29e-03	0.02	100,223,105	0.11	100	0.0	0.0	0.0
	0.0	0.07	0.0	0,107,0	0.02	2.68e-03	2.68e-03	100,210,210			0.0	0.0	0.0
2336	0.0	0.14	0.0	0,105,0	0.17	2.29e-03	0.02	107,223,105	0.31	107	0.0	0.0	0.0
	0.0	0.07	0.0	0,107,0	0.17	1.51e-03	1.51e-03	107,213,213			0.0	0.0	0.0
2337	0.0	0.14	0.0	0,105,0	0.02	2.29e-03	0.02	107,223,105	0.11	107	0.0	0.0	0.0
	0.0	0.07	0.0	0,107,0	0.02	2.04e-04	2.04e-04	107,240,240			0.0	0.0	0.0
2340	8.11e-03	0.02	0.0	209,105,0	0.05	8.69e-03	0.01	235,209,212	0.17	235	0.87	0.06	0.94
	3.19e-03	0.01	0.0	211,105,0	0.05	3.89e-04	3.89e-04	235,210,210			1.00	0.04	0.96
2341	0.0	0.02	0.0	0,105,0	0.05	8.69e-03	0.01	235,209,212	0.17	235	0.0	0.0	0.0
	1.78e-03	7.26e-03	0.0	211,107,0	0.05	3.76e-04	3.76e-04	235,212,212			1.00	0.04	0.96
2342	0.02	0.02	0.0	209,212,0	0.03	3.77e-03	9.78e-03	235,212,212	0.14	235	0.87	0.06	0.94
	0.04	0.02	0.0	212,209,0	0.03	3.57e-03	3.57e-03	235,212,212			1.00	0.04	0.96
2343	0.01	0.02	0.0	213,105,0	0.06	8.46e-03	0.01	235,212,212	0.18	235	0.87	0.06	0.94
	0.02	8.40e-03	0.0	212,209,0	0.06	2.55e-03	2.55e-03	235,212,212			1.00	0.04	0.96
2347	0.02	0.02	0.0	209,212,0	0.05	5.75e-03	0.01	235,212,212	0.17	235	0.87	0.06	0.94
	0.03	0.01	0.0	212,209,0	0.05	3.57e-03	3.57e-03	235,212,212			1.00	0.04	0.96
2444	8.27e-03	0.02	0.0	212,105,0	0.05	8.69e-03	0.01	235,209,212	0.17	235	0.87	0.06	0.94
	1.03e-03	0.02	0.0	211,105,0	0.05	3.76e-04	3.76e-04	235,212,212			1.00	0.04	0.96
2445	0.0	0.02	0.0	0,105,0	0.05	8.69e-03	0.01	235,209,212	0.17	235	0.0	0.0	0.0
	0.0	9.56e-03	0.0	0,107,0	0.05	3.76e-04	3.76e-04	235,212,212			0.0	0.0	0.0
2446	8.27e-03	0.02	0.0	212,105,0	0.05	8.28e-03	0.01	235,212,209	0.17	235	0.87	0.06	0.94
	0.0	0.02	0.0	0,107,0	0.05	3.30e-04	3.30e-04	235,213,213			0.0	0.0	0.0
2453	0.0	0.02	0.0	0,105,0	0.05	8.28e-03	0.01	235,212,209	0.17	235	0.0	0.0	0.0
	0.0	0.01	0.0	0,107,0	0.05	3.30e-04	3.30e-04	235,213,213			0.0	0.0	0.0
2454	7.64e-03	0.02	0.0	215,105,0	0.05	7.00e-03	9.50e-03	235,212,210	0.17	235	0.87	0.06	0.94
	0.0	0.03	0.0	0,107,0	0.05	7.99e-04	7.99e-04	235,211,211			0.0	0.0	0.0
2461	1.10e-03	0.02	0.0	211,105,0	0.05	7.00e-03	9.13e-03	235,212,209	0.17	235	0.87	0.06	0.94
	0.0	0.02	0.0	0,107,0	0.05	4.63e-04	4.63e-04	235,210,210			0.0	0.0	0.0
2462	7.30e-03	0.02	0.0	211,105,0	0.05	6.15e-03	8.01e-03	235,211,210	0.17	235	0.87	0.06	0.94
	0.0	0.04	0.0	0,107,0	0.05	2.29e-03	2.29e-03	235,209,209			0.0	0.0	0.0
2512	0.02	0.02	0.0	209,212,0	0.04	2.39e-03	0.01	235,209,212	0.16	235	0.87	0.06	0.94
	0.03	0.01	0.0	212,209,0	0.04	3.57e-03	3.57e-03	235,212,212			1.00	0.04	0.96
2513	0.01	0.02	0.0	209,105,0	0.07	8.46e-03	0.01	235,212,212	0.20	235	0.87	0.06	0.94

	0.03	1.83e-03	0.0	99,210,0	0.07	2.01e-03	2.01e-03	235,210,210			1.00	0.04	0.96
2514	0.02	0.02	0.0	209,212,0	0.06	5.86e-03	0.01	235,209,212	0.19	235	0.87	0.06	0.94
	0.03	4.53e-03	0.0	99,211,0	0.06	1.92e-03	1.92e-03	235,212,212			1.00	0.04	0.96
2515	0.02	0.02	0.0	209,212,0	0.05	2.71e-03	0.01	235,210,212	0.17	235	0.87	0.06	0.94
	0.02	6.97e-03	0.0	99,211,0	0.05	1.92e-03	1.92e-03	235,212,212			1.00	0.04	0.96
2516	0.01	0.03	0.0	209,105,0	0.07	8.30e-03	0.01	235,212,212	0.20	235	0.87	0.06	0.94
	0.04	1.56e-03	0.0	99,210,0	0.07	2.01e-03	2.01e-03	235,210,210			1.00	0.04	0.96
2517	0.02	0.02	0.0	209,105,0	0.06	5.86e-03	0.01	235,209,212	0.19	235	0.87	0.06	0.94
	0.04	4.50e-04	0.0	99,70,0	0.06	9.80e-04	9.80e-04	235,212,212			1.00	0.04	0.96
2518	0.02	0.02	0.0	209,212,0	0.05	2.74e-03	0.01	235,210,209	0.18	235	0.87	0.06	0.94
	0.03	4.58e-03	0.0	99,211,0	0.05	8.49e-04	8.49e-04	235,211,211			1.00	0.04	0.96
2519	6.93e-03	0.03	0.0	212,105,0	0.08	8.16e-03	0.01	235,209,209	0.21	235	0.87	0.06	0.94
	0.06	0.0	0.0	99,0,0	0.08	1.66e-03	1.66e-03	235,215,215			1.00	0.04	0.96
2524	0.01	0.02	0.0	212,105,0	0.06	5.86e-03	0.01	235,209,209	0.19	235	0.87	0.06	0.94
	0.06	0.0	0.0	99,0,0	0.06	3.17e-04	3.17e-04	235,217,217			1.00	0.04	0.96
2530	0.02	0.02	0.0	209,212,0	0.05	2.74e-03	0.01	235,210,209	0.18	235	0.87	0.06	0.94
	0.03	4.25e-03	0.0	99,60,0	0.05	3.61e-04	3.61e-04	235,211,211			1.00	0.04	0.96
2531	6.96e-03	0.02	0.0	211,105,0	0.08	7.33e-03	0.01	235,212,213	0.22	235	0.87	0.06	0.94
	0.07	0.0	0.0	99,0,0	0.08	1.66e-03	1.66e-03	235,215,215			1.00	0.04	0.96
3022	6.65e-03	0.01	0.0	209,105,0	0.02	5.44e-03	7.46e-03	234,212,212	0.12	234	0.87	0.06	0.94
	0.01	6.60e-03	0.0	212,209,0	0.02	7.20e-03	7.20e-03	234,212,212			1.00	0.04	0.96
3023	8.58e-03	0.01	0.0	209,212,0	0.02	5.44e-03	7.46e-03	234,212,212	0.12	234	0.87	0.06	0.94
	0.02	0.01	0.0	212,209,0	0.02	0.02	0.02	234,212,212			1.00	0.04	0.96
3024	8.58e-03	0.01	0.0	209,212,0	0.02	0.02	0.02	234,212,212	0.12	234	0.87	0.06	0.94
	0.02	0.01	0.0	212,209,0	0.02	0.02	0.02	234,212,212			1.00	0.04	0.96
3033	0.02	0.02	0.0	209,212,0	0.02	0.02	0.02	234,212,212	0.12	234	0.87	0.06	0.94
	0.02	9.84e-03	0.0	212,209,0	0.02	0.01	0.01	234,212,212			1.00	0.04	0.96
3034	0.02	0.02	0.0	209,212,0	0.02	0.01	0.02	234,212,212	0.12	234	0.87	0.06	0.94
	0.01	9.84e-03	0.0	212,209,0	0.02	7.32e-03	7.32e-03	234,212,212			1.00	0.04	0.96
3043	0.02	0.02	0.0	209,212,0	0.02	0.02	0.02	234,212,212	0.12	234	0.87	0.06	0.94
	0.01	9.84e-03	0.0	212,209,0	0.02	7.32e-03	7.32e-03	234,212,212			1.00	0.04	0.96
3044	8.95e-03	0.03	0.0	212,105,0	0.02	0.02	0.02	234,212,212	0.12	234	0.87	0.06	0.94
	0.01	9.54e-03	0.0	212,209,0	0.02	1.75e-03	1.75e-03	234,212,212			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.21	0.14	0.0	0.35	0.02	0.02	0.45

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
63	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.33	-79.5	203	0.28	-66.6	203	0.25	-3799.8	1.394e+06	216

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1704	6.72e-03	9.55e-03	0.0	211,210,0	0.02	2.03e-03	2.49e-03	215,232,232	0.10	215	0.87	0.06	0.94
	5.42e-03	4.16e-03	0.0	212,209,0	0.02	7.94e-04	7.94e-04	215,212,212			1.00	0.04	0.96
1777	0.02	0.02	0.0	237,240,0	0.02	2.84e-03	4.50e-03	215,210,216	0.11	215	0.87	0.06	0.94
	0.01	7.10e-03	0.0	212,209,0	0.02	1.33e-03	1.33e-03	215,212,212			1.00	0.04	0.96
1779	0.02	0.02	0.0	237,240,0	0.02	7.23e-03	9.83e-03	235,209,216	0.12	235	0.87	0.06	0.94
	0.01	7.50e-03	0.0	212,209,0	0.02	1.33e-03	1.33e-03	235,212,212			1.00	0.04	0.96
1781	0.01	0.02	0.0	237,240,0	0.03	9.29e-03	0.01	235,212,212	0.13	235	0.87	0.06	0.94
	0.01	7.50e-03	0.0	212,209,0	0.03	9.92e-04	9.92e-04	235,212,212			1.00	0.04	0.96
1783	7.80e-03	0.02	0.0	213,212,0	0.03	9.29e-03	0.01	235,212,212	0.13	235	0.87	0.06	0.94
	0.01	5.68e-03	0.0	212,209,0	0.03	9.92e-04	9.92e-04	235,212,212			1.00	0.04	0.96
1785	5.79e-03	0.02	0.0	209,212,0	0.03	8.72e-03	0.01	235,212,212	0.13	235	0.87	0.06	0.94
	0.01	6.50e-03	0.0	215,214,0	0.03	2.21e-03	2.21e-03	235,214,214			1.00	0.04	0.96
1787	6.21e-03	0.02	0.0	221,212,0	0.02	7.77e-03	0.01	235,213,212	0.12	235	0.87	0.06	0.94
	0.01	6.50e-03	0.0	215,214,0	0.02	2.36e-03	2.36e-03	235,215,215			1.00	0.04	0.96
1789	8.67e-03	0.02	0.0	221,224,0	0.02	8.29e-03	0.01	233,213,216	0.12	233	0.87	0.06	0.94
	0.01	5.19e-03	0.0	216,209,0	0.02	2.36e-03	2.36e-03	233,215,215			1.00	0.04	0.96
1820	8.67e-03	0.01	0.0	221,224,0	0.03	8.29e-03	0.01	233,213,216	0.13	233	0.87	0.06	0.94
	0.02	3.71e-03	0.0	99,221,0	0.03	1.10e-03	1.10e-03	233,100,100			1.00	0.04	0.96
1822	7.08e-03	8.37e-03	0.0	213,100,0	0.03	7.76e-03	8.65e-03	233,209,212	0.14	233	0.87	0.06	0.94
	0.03	6.21e-03	0.0	99,221,0	0.03	2.95e-03	2.95e-03	233,100,100			1.00	0.04	0.96
1824	0.01	0.04	0.0	236,233,0	0.03	6.47e-03	9.38e-03	233,209,215	0.14	233	0.87	0.06	0.94
	0.05	0.01	0.0	99,237,0	0.03	4.91e-03	4.91e-03	233,235,235			1.00	0.04	0.96
1826	0.06	0.04	0.0	216,233,0	0.03	0.02	0.02	233,215,239	0.13	233	0.87	0.06	0.94
	0.05	0.02	0.0	99,237,0	0.03	0.01	0.01	233,100,100			1.00	0.04	0.96
1828	0.06	0.03	0.0	216,213,0	3.00e-03	0.02	0.02	240,215,239	0.04	240	0.87	0.06	0.94

	0.04	0.02	0.0	99,237,0	3.00e-03	0.01	0.01240,100,100			1.00	0.04	0.96
2156	0.02	0.01	0.0	211,210,0	0.03	2.84e-03	8.40e-03236,211,216	0.13	236	0.87	0.06	0.94
	0.02	9.63e-03	0.0	99,221,0	0.03	1.33e-03	1.33e-03236,237,237			1.00	0.04	0.96
2157	0.01	0.04	0.0	236,233,0	0.03	6.47e-03	9.38e-03240,209,215	0.14	240	0.87	0.06	0.94
	0.06	0.01	0.0	99,237,0	0.03	4.91e-03	4.91e-03240,235,235			1.00	0.04	0.96
2158	0.02	0.03	0.0	211,239,0	0.03	4.73e-03	9.35e-03240,211,215	0.14	240	0.87	0.06	0.94
	0.06	0.01	0.0	99,237,0	0.03	3.40e-03	3.40e-03240,100,100			1.00	0.04	0.96
2159	0.02	0.02	0.0	211,235,0	0.03	2.31e-03	7.80e-03240,100,211	0.13	240	0.87	0.06	0.94
	0.02	9.63e-03	0.0	99,221,0	0.03	2.48e-03	2.48e-03240,237,237			1.00	0.04	0.96
2160	0.06	0.04	0.0	216,233,0	0.03	0.02	0.02240,215,239	0.14	240	0.87	0.06	0.94
	0.06	0.02	0.0	99,237,0	0.03	0.01	0.01240,100,100			1.00	0.04	0.96
2161	0.05	0.03	0.0	212,105,0	0.03	0.01	0.02240,235,239	0.14	240	0.87	0.06	0.94
	0.06	0.01	0.0	99,237,0	0.03	0.01	0.01240,100,100			1.00	0.04	0.96
2162	0.03	0.04	0.0	216,105,0	0.03	5.13e-03	8.51e-03240,100,107	0.13	240	0.87	0.06	0.94
	0.02	9.27e-03	0.0	99,214,0	0.03	4.82e-03	4.82e-03240,214,214			1.00	0.04	0.96
2163	0.06	0.03	0.0	216,105,0	0.02	0.02	0.02240,215,239	0.11	240	0.87	0.06	0.94
	0.05	0.02	0.0	99,237,0	0.02	0.01	0.01240,100,100			1.00	0.04	0.96
2164	0.05	0.03	0.0	212,105,0	0.02	0.01	0.02240,235,239	0.11	240	0.87	0.06	0.94
	0.05	0.01	0.0	99,237,0	0.02	0.01	0.01240,100,100			1.00	0.04	0.96
2165	0.03	0.04	0.0	216,105,0	0.01	5.13e-03	8.51e-03240,100,107	0.08	240	0.87	0.06	0.94
	9.22e-03	4.62e-03	0.0	221,214,0	0.01	4.82e-03	4.82e-03240,214,214			1.00	0.04	0.96
2166	0.02	0.02	0.0	213,216,0	0.03	2.87e-03	9.38e-03236,209,212	0.12	236	0.87	0.06	0.94
	0.01	0.01	0.0	216,105,0	0.03	1.49e-03	1.49e-03236,215,215			1.00	0.04	0.96
2167	0.02	0.02	0.0	211,216,0	0.02	5.36e-03	0.01233,212,211	0.12	233	0.87	0.06	0.94
	9.94e-03	0.02	0.0	235,105,0	0.02	1.85e-03	1.85e-03233,107,107			1.00	0.04	0.96
2168	0.02	0.01	0.0	211,210,0	0.03	2.63e-03	7.32e-03236,209,210	0.12	236	0.87	0.06	0.94
	0.01	0.01	0.0	215,105,0	0.03	1.49e-03	1.49e-03236,215,215			1.00	0.04	0.96
2169	0.02	0.01	0.0	211,211,0	0.03	5.26e-03	7.85e-03236,211,210	0.12	236	0.87	0.06	0.94
	0.02	0.03	0.0	235,105,0	0.03	3.34e-03	3.34e-03236,107,107			1.00	0.04	0.96
2170	0.02	0.02	0.0	211,213,0	0.03	2.96e-03	7.32e-03236,215,210	0.12	236	0.87	0.06	0.94
	0.01	0.01	0.0	215,105,0	0.03	2.54e-03	2.54e-03236,215,215			1.00	0.04	0.96
2171	0.02	0.02	0.0	211,213,0	0.03	4.08e-03	7.85e-03240,210,210	0.13	240	0.87	0.06	0.94
	0.03	0.04	0.0	235,107,0	0.03	3.34e-03	3.34e-03240,107,107			1.00	0.04	0.96
2172	0.01	0.05	0.0	216,105,0	0.03	5.42e-03	0.01240,107,105	0.12	240	0.87	0.06	0.94
	0.01	0.01	0.0	215,105,0	0.03	4.19e-03	4.19e-03240,216,216			1.00	0.04	0.96
2173	8.29e-03	0.07	0.0	216,105,0	0.03	0.01	0.02240,107,107	0.13	240	0.87	0.06	0.94
	0.03	0.04	0.0	235,107,0	0.03	0.01	0.01240,107,107			1.00	0.04	0.96
2174	0.01	0.05	0.0	216,105,0	0.01	5.42e-03	0.01240,107,105	0.09	240	0.87	0.06	0.94
	6.76e-03	6.09e-03	0.0	215,105,0	0.01	4.19e-03	4.19e-03240,216,216			1.00	0.04	0.96
2175	1.48e-03	0.07	0.0	216,105,0	0.02	0.01	0.02234,107,107	0.11	234	0.87	0.06	0.94
	0.02	0.04	0.0	235,107,0	0.02	0.01	0.01234,107,107			1.00	0.04	0.96
2176	0.02	0.01	0.0	211,211,0	0.02	8.79e-03	0.01233,211,211	0.12	233	0.87	0.06	0.94
	9.94e-03	0.02	0.0	235,105,0	0.02	1.85e-03	1.85e-03233,107,107			1.00	0.04	0.96
2177	6.76e-03	5.44e-03	0.0	215,216,0	0.02	8.79e-03	0.01233,211,211	0.11	233	0.87	0.06	0.94
	7.94e-03	0.01	0.0	235,105,0	0.02	1.03e-03	1.03e-03233,211,211			1.00	0.04	0.96
2178	0.02	9.56e-03	0.0	211,211,0	0.02	8.32e-03	8.32e-03236,211,211	0.12	236	0.87	0.06	0.94
	0.02	0.03	0.0	235,105,0	0.02	3.34e-03	3.34e-03236,107,107			1.00	0.04	0.96
2179	7.07e-03	3.23e-03	0.0	216,214,0	0.02	8.32e-03	8.32e-03233,211,211	0.11	233	0.87	0.06	0.94
	0.01	0.02	0.0	235,105,0	0.02	3.18e-03	3.18e-03233,107,107			1.00	0.04	0.96
2218	0.03	0.03	0.0	212,209,0	0.01	0.02	0.03215,212,209	0.08	215	0.87	0.06	0.94
	0.02	0.01	0.0	212,212,0	0.01	9.46e-03	9.46e-03215,212,212			1.00	0.04	0.96
2219	0.02	0.02	0.0	212,209,0	0.01	0.02	0.03215,212,209	0.08	215	0.87	0.06	0.94
	0.01	0.01	0.0	212,209,0	0.01	2.47e-03	2.47e-03215,212,212			1.00	0.04	0.96
2225	0.02	0.02	0.0	237,240,0	0.02	7.75e-03	8.61e-03215,212,209	0.11	215	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.02	7.65e-03	7.65e-03215,212,212			1.00	0.04	0.96
2226	0.01	0.02	0.0	237,240,0	0.02	7.75e-03	9.83e-03215,212,212	0.10	215	0.87	0.06	0.94
	0.04	0.03	0.0	212,209,0	0.02	0.02	0.02215,212,212			1.00	0.04	0.96
2227	0.02	0.02	0.0	213,216,0	0.02	0.02	0.02215,212,212	0.10	215	0.87	0.06	0.94
	0.04	0.03	0.0	212,209,0	0.02	0.02	0.02215,212,212			1.00	0.04	0.96
2228	0.02	0.02	0.0	237,216,0	0.02	7.23e-03	0.01235,209,212	0.12	235	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.02	2.73e-03	2.73e-03235,212,212			1.00	0.04	0.96
2229	0.02	0.02	0.0	213,216,0	0.02	5.70e-03	0.01235,212,212	0.11	235	0.87	0.06	0.94
	0.04	0.03	0.0	212,209,0	0.02	4.48e-03	4.48e-03235,212,212			1.00	0.04	0.96
2230	0.02	0.02	0.0	213,216,0	0.02	3.51e-03	9.71e-03235,212,212	0.11	235	0.87	0.06	0.94
	0.04	0.03	0.0	212,209,0	0.02	4.48e-03	4.48e-03235,212,212			1.00	0.04	0.96
2231	0.02	0.02	0.0	213,212,0	0.03	9.29e-03	0.01235,212,212	0.13	235	0.87	0.06	0.94
	0.02	0.02	0.0	212,209,0	0.03	2.73e-03	2.73e-03235,212,212			1.00	0.04	0.96
2235	0.02	0.03	0.0	209,212,0	0.03	6.14e-03	0.01235,212,212	0.12	235	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.03	4.48e-03	4.48e-03235,212,212			1.00	0.04	0.96
2236	0.02	0.03	0.0	209,212,0	0.02	2.72e-03	0.01235,209,212	0.12	235	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.02	4.48e-03	4.48e-03235,212,212			1.00	0.04	0.96
2237	0.02	0.03	0.0	209,212,0	0.03	9.29e-03	0.01235,212,212	0.13	235	0.87	0.06	0.94
	0.02	9.60e-03	0.0	212,209,0	0.03	2.39e-03	2.39e-03235,212,212			1.00	0.04	0.96
2238	0.02	0.03	0.0	209,212,0	0.03	6.14e-03	0.01235,212,212	0.12	235	0.87	0.06	0.94
	0.02	0.01	0.0	212,209,0	0.03	2.54e-03	2.54e-03235,212,212			1.00	0.04	0.96
2239	0.02	0.03	0.0	209,212,0	0.02	2.60e-03	0.01235,213,212	0.12	235	0.87	0.06	0.94
	0.02	0.01	0.0	212,209,0	0.02	2.54e-03	2.54e-03235,212,212			1.00	0.04	0.96

2240	0.02	0.03	0.0 209,212,0	0.03	8.72e-03	0.01235,212,212	0.13	235	0.87	0.06	0.94
	0.02	6.50e-03	0.0 216,214,0	0.03	2.21e-03	2.21e-03235,214,214			1.00	0.04	0.96
2241	6.72e-03	9.55e-03	0.0 211,210,0	0.02	7.75e-03	8.61e-03215,212,209	0.10	215	0.87	0.06	0.94
	0.01	7.60e-03	0.0 212,209,0	0.02	7.65e-03	7.65e-03215,212,212			1.00	0.04	0.96
2242	0.01	0.01	0.0 212,228,0	0.02	7.75e-03	9.83e-03215,212,212	0.10	215	0.87	0.06	0.94
	0.02	0.02	0.0 212,212,0	0.02	0.02	0.02215,212,212			1.00	0.04	0.96
2243	0.02	0.03	0.0 209,212,0	0.03	5.93e-03	0.01235,209,212	0.12	235	0.87	0.06	0.94
	0.02	7.16e-03	0.0 216,210,0	0.03	1.27e-03	1.27e-03235,212,212			1.00	0.04	0.96
2244	0.02	0.03	0.0 209,212,0	0.02	2.73e-03	0.01235,211,212	0.12	235	0.87	0.06	0.94
	0.01	8.47e-03	0.0 211,210,0	0.02	1.27e-03	1.27e-03235,212,212			1.00	0.04	0.96
2245	0.01	0.02	0.0 209,212,0	0.02	7.77e-03	0.01235,213,212	0.12	235	0.87	0.06	0.94
	0.02	6.50e-03	0.0 216,214,0	0.02	2.36e-03	2.36e-03235,215,215			1.00	0.04	0.96
2246	0.02	0.03	0.0 209,212,0	0.02	5.89e-03	0.01235,209,212	0.12	235	0.87	0.06	0.94
	0.02	5.58e-03	0.0 216,213,0	0.02	5.41e-04	5.41e-04235,215,215			1.00	0.04	0.96
2247	0.02	0.03	0.0 209,212,0	0.02	2.91e-03	0.01236,215,212	0.11	236	0.87	0.06	0.94
	0.01	6.89e-03	0.0 216,210,0	0.02	7.40e-04	7.40e-04236,211,211			1.00	0.04	0.96
2248	0.02	0.02	0.0 213,212,0	0.03	8.29e-03	0.01236,213,212	0.12	236	0.87	0.06	0.94
	0.02	5.19e-03	0.0 224,209,0	0.03	2.36e-03	2.36e-03236,215,215			1.00	0.04	0.96
2249	0.01	0.01	0.0 212,228,0	0.02	0.02	0.02215,212,212	0.09	215	0.87	0.06	0.94
	0.02	0.02	0.0 212,212,0	0.02	0.02	0.02215,212,212			1.00	0.04	0.96
2251	3.20e-03	0.01	0.0 213,107,0	0.02	7.67e-03	9.66e-03235,210,211	0.10	235	0.87	0.06	0.94
	7.35e-03	5.66e-03	0.0 215,214,0	0.02	1.79e-03	1.79e-03235,212,212			1.00	0.04	0.96
2252	0.01	0.02	0.0 209,212,0	0.02	8.75e-03	0.01235,210,216	0.11	235	0.87	0.06	0.94
	8.93e-03	9.42e-03	0.0 215,214,0	0.02	1.17e-03	1.17e-03235,220,220			1.00	0.04	0.96
2253	2.56e-03	0.01	0.0 210,107,0	0.02	8.75e-03	0.01235,210,211	0.10	235	0.87	0.06	0.94
	8.43e-03	6.70e-03	0.0 215,214,0	0.02	4.92e-04	4.92e-04235,212,212			1.00	0.04	0.96
2254	0.01	0.02	0.0 209,212,0	0.02	8.75e-03	0.01235,210,212	0.11	235	0.87	0.06	0.94
	9.17e-03	9.68e-03	0.0 215,214,0	0.02	7.71e-04	7.71e-04235,214,214			1.00	0.04	0.96
2255	2.65e-03	0.01	0.0 213,107,0	0.02	8.75e-03	0.01235,210,211	0.10	235	0.87	0.06	0.94
	9.17e-03	8.09e-03	0.0 215,214,0	0.02	7.71e-04	7.71e-04235,214,214			1.00	0.04	0.96
2256	0.01	0.02	0.0 209,212,0	0.02	8.59e-03	0.01235,213,212	0.11	235	0.87	0.06	0.94
	9.17e-03	0.01	0.0 215,105,0	0.02	1.13e-03	1.13e-03235,215,215			1.00	0.04	0.96
2257	3.58e-03	9.87e-03	0.0 213,107,0	0.02	8.59e-03	0.01235,213,216	0.10	235	0.87	0.06	0.94
	9.17e-03	8.09e-03	0.0 215,214,0	0.02	1.13e-03	1.13e-03235,215,215			1.00	0.04	0.96
2258	0.01	0.01	0.0 211,107,0	0.03	7.34e-03	7.85e-03240,211,210	0.13	240	0.87	0.06	0.94
	0.03	0.04	0.0 235,107,0	0.03	5.03e-03	5.03e-03240,107,107			1.00	0.04	0.96
2259	7.07e-03	6.89e-03	0.0 216,214,0	0.02	7.34e-03	7.50e-03233,211,213	0.10	233	0.87	0.06	0.94
	0.03	0.03	0.0 235,107,0	0.02	5.03e-03	5.03e-03233,107,107			1.00	0.04	0.96
2260	6.25e-03	0.14	0.0 216,105,0	0.03	0.03	0.05240,107,107	0.13	240	0.87	0.06	0.94
	0.05	0.06	0.0 235,107,0	0.03	0.01	0.01240,107,107			1.00	0.04	0.96
2261	6.14e-03	0.03	0.0 235,105,0	0.01	0.01	0.02237,107,107	0.08	237	0.87	0.06	0.94
	0.03	0.03	0.0 235,107,0	0.01	5.03e-03	5.03e-03237,107,107			1.00	0.04	0.96
2262	0.0	0.14	0.0 0,105,0	0.02	0.03	0.05234,107,107	0.11	234	0.0	0.0	0.0
	0.05	0.06	0.0 235,107,0	0.02	0.01	0.01234,107,107			1.00	0.04	0.96
2263	6.14e-03	0.14	0.0 235,105,0	7.96e-03	0.03	0.05105,107,107	0.07	105	0.87	0.06	0.94
	0.05	0.06	0.0 235,107,0	7.76e-03	0.01	0.01105,107,107			1.00	0.04	0.96
2377	0.02	0.02	0.0 209,212,0	0.03	5.74e-03	0.01236,209,212	0.12	236	0.87	0.06	0.94
	0.02	6.59e-03	0.0 224,213,0	0.03	8.77e-04	8.77e-04236,221,221			1.00	0.04	0.96
2380	0.02	0.02	0.0 209,212,0	0.03	2.91e-03	0.01236,215,212	0.12	236	0.87	0.06	0.94
	0.01	7.26e-03	0.0 216,209,0	0.03	8.77e-04	8.77e-04236,221,221			1.00	0.04	0.96
2381	0.02	0.02	0.0 212,209,0	0.02	0.02	0.03215,212,209	0.10	215	0.87	0.06	0.94
	0.03	0.02	0.0 212,209,0	0.02	0.01	0.01215,212,212			1.00	0.04	0.96
2382	0.03	0.03	0.0 212,209,0	0.01	0.02	0.03215,212,209	0.09	215	0.87	0.06	0.94
	0.02	0.01	0.0 212,209,0	0.01	9.46e-03	9.46e-03215,212,212			1.00	0.04	0.96
2383	0.02	0.02	0.0 213,216,0	0.02	3.63e-03	9.37e-03235,212,216	0.11	235	0.87	0.06	0.94
	0.03	0.02	0.0 212,209,0	0.02	6.02e-03	6.02e-03235,212,212			1.00	0.04	0.96
2384	0.02	0.02	0.0 213,216,0	0.02	4.67e-03	9.37e-03235,210,216	0.10	235	0.87	0.06	0.94
	0.02	0.01	0.0 212,209,0	0.02	6.02e-03	6.02e-03235,212,212			1.00	0.04	0.96
2385	0.02	0.03	0.0 213,216,0	0.02	3.71e-03	0.01235,212,216	0.11	235	0.87	0.06	0.94
	0.02	0.01	0.0 212,209,0	0.02	2.39e-03	2.39e-03235,212,212			1.00	0.04	0.96
2386	0.02	0.02	0.0 213,216,0	0.02	5.70e-03	0.01235,210,211	0.11	235	0.87	0.06	0.94
	0.01	0.01	0.0 211,210,0	0.02	4.83e-03	4.83e-03235,212,212			1.00	0.04	0.96
2387	0.02	0.03	0.0 209,212,0	0.02	3.71e-03	0.01235,212,216	0.12	235	0.87	0.06	0.94
	0.02	0.01	0.0 215,214,0	0.02	1.44e-03	1.44e-03235,216,216			1.00	0.04	0.96
2388	0.02	0.02	0.0 213,216,0	0.02	5.78e-03	0.01235,213,216	0.11	235	0.87	0.06	0.94
	0.01	0.01	0.0 211,210,0	0.02	1.17e-03	1.17e-03235,220,220			1.00	0.04	0.96
2389	0.02	0.03	0.0 209,212,0	0.02	3.30e-03	0.01235,212,212	0.12	235	0.87	0.06	0.94
	0.01	9.52e-03	0.0 211,210,0	0.02	1.08e-03	1.08e-03235,212,212			1.00	0.04	0.96
2391	0.02	0.02	0.0 212,209,0	0.01	0.02	0.03215,212,209	0.09	215	0.87	0.06	0.94
	0.02	0.01	0.0 212,212,0	0.01	0.01	0.01215,212,212			1.00	0.04	0.96
2392	0.01	0.01	0.0 210,216,0	0.02	8.79e-03	0.01233,211,212	0.11	233	0.87	0.06	0.94
	6.91e-03	0.02	0.0 215,105,0	0.02	1.13e-03	1.13e-03233,215,215			1.00	0.04	0.96
2393	0.02	0.02	0.0 209,212,0	0.02	6.09e-03	0.01235,209,212	0.11	235	0.87	0.06	0.94
	0.01	9.68e-03	0.0 211,214,0	0.02	9.15e-04	9.15e-04235,211,211			1.00	0.04	0.96
2394	0.02	0.03	0.0 209,212,0	0.02	3.15e-03	0.01236,209,212	0.11	236	0.87	0.06	0.94
	9.82e-03	8.56e-03	0.0 211,214,0	0.02	8.14e-04	8.14e-04236,211,211			1.00	0.04	0.96
2395	0.02	0.02	0.0 209,212,0	0.02	6.09e-03	0.01235,209,212	0.11	235	0.87	0.06	0.94

	8.51e-03	0.01	0.0 215,105,0	0.02	8.14e-04	8.14e-04	235,211,211			1.00	0.04	0.96
2396	0.02	0.02	0.0 209,212,0	0.02	3.05e-03	0.01	236,209,212	0.12	236	0.87	0.06	0.94
	8.98e-03	8.92e-03	0.0 212,105,0	0.02	8.42e-04	8.42e-04	236,219,219			1.00	0.04	0.96
2397	5.28e-03	7.09e-03	0.0 213,216,0	0.02	8.79e-03	0.01	233,211,211	0.11	233	0.87	0.06	0.94
	6.91e-03	8.75e-03	0.0 215,105,0	0.02	1.13e-03	1.13e-03	233,215,215			1.00	0.04	0.96
2398	0.02	0.02	0.0 213,216,0	0.03	8.29e-03	0.01	233,213,212	0.13	233	0.87	0.06	0.94
	0.03	6.90e-03	0.0 99,221,0	0.03	1.95e-03	1.95e-03	233,100,100			1.00	0.04	0.96
2399	0.02	0.02	0.0 209,216,0	0.03	5.39e-03	0.01	233,209,212	0.13	233	0.87	0.06	0.94
	0.03	8.09e-03	0.0 99,221,0	0.03	1.95e-03	1.95e-03	233,100,100			1.00	0.04	0.96
2400	0.02	0.02	0.0 213,216,0	0.03	2.84e-03	9.80e-03	236,211,212	0.13	236	0.87	0.06	0.94
	0.01	8.46e-03	0.0 216,213,0	0.03	1.33e-03	1.33e-03	236,237,237			1.00	0.04	0.96
2463	0.02	0.01	0.0 213,213,0	0.03	7.76e-03	9.23e-03	233,209,212	0.14	233	0.87	0.06	0.94
	0.04	9.96e-03	0.0 99,221,0	0.03	3.40e-03	3.40e-03	233,100,100			1.00	0.04	0.96
2464	0.02	0.01	0.0 213,210,0	0.03	4.78e-03	9.23e-03	233,212,212	0.13	233	0.87	0.06	0.94
	0.04	9.96e-03	0.0 99,221,0	0.03	3.40e-03	3.40e-03	233,100,100			1.00	0.04	0.96
2467	0.03	0.03	0.0 212,209,0	0.01	0.02	0.03	215,212,209	0.09	215	0.87	0.06	0.94
	0.02	0.01	0.0 212,212,0	0.01	9.46e-03	9.46e-03	215,212,212			1.00	0.04	0.96
2470	0.02	0.02	0.0 209,212,0	0.02	5.98e-03	0.01	236,212,212	0.12	236	0.87	0.06	0.94
	7.10e-03	0.02	0.0 215,105,0	0.02	8.42e-04	8.42e-04	236,219,219			1.00	0.04	0.96
2478	0.03	0.03	0.0 212,209,0	0.01	0.02	0.03	215,212,209	0.09	215	0.87	0.06	0.94
	0.02	0.01	0.0 212,209,0	0.01	9.46e-03	9.46e-03	215,212,212			1.00	0.04	0.96
2481	4.91e-03	0.01	0.0 212,105,0	0.01	0.01	0.02	215,212,212	0.09	215	0.87	0.06	0.94
	0.01	7.51e-03	0.0 212,209,0	0.01	2.47e-03	2.47e-03	215,212,212			1.00	0.04	0.96
2482	0.01	0.02	0.0 213,216,0	0.02	9.12e-03	0.01	235,212,212	0.10	235	0.87	0.06	0.94
	0.02	0.01	0.0 212,209,0	0.02	6.01e-03	6.01e-03	235,212,212			1.00	0.04	0.96
2486	3.69e-03	0.01	0.0 213,105,0	0.01	9.12e-03	0.01	235,212,212	0.09	235	0.87	0.06	0.94
	0.01	7.51e-03	0.0 212,209,0	0.01	1.79e-03	1.79e-03	235,212,212			1.00	0.04	0.96
2492	0.01	0.02	0.0 210,216,0	0.02	7.67e-03	0.01	235,210,211	0.11	235	0.87	0.06	0.94
	8.49e-03	8.24e-03	0.0 215,214,0	0.02	4.83e-03	4.83e-03	235,212,212			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.06	0.14	0.0	0.03	0.03	0.05	0.14

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
64	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.47	-5.4	180	0.13	-1.5	180	0.17	-6.2	2.996e+04	209

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1680	0.02	0.03	0.0	233,236,0	0.01	0.03	0.03	212,67,68	0.08	212	0.87	0.06	0.94
	0.01	0.01	0.0	214,215,0	0.01	5.78e-04	5.78e-04	212,70,70			1.00	0.04	0.96
1681	0.02	0.03	0.0	233,236,0	0.01	0.03	0.03	212,69,68	0.08	212	0.87	0.06	0.94
	0.02	0.01	0.0	214,215,0	0.01	8.98e-04	8.98e-04	212,234,234			1.00	0.04	0.96
1683	0.02	0.03	0.0	215,214,0	7.57e-03	0.03	0.03	212,69,68	0.07	212	0.87	0.06	0.94
	0.02	0.01	0.0	214,215,0	7.57e-03	8.98e-04	8.98e-04	212,234,234			1.00	0.04	0.96
2204	0.05	0.05	0.0	69,68,0	7.57e-03	0.03	0.04	212,69,68	0.07	212	0.87	0.06	0.94
	0.02	0.01	0.0	210,215,0	7.57e-03	2.25e-03	2.25e-03	212,235,235			1.00	0.04	0.96
2205	0.08	0.07	0.0	69,68,0	6.66e-03	0.02	0.05	212,69,68	0.06	212	0.87	0.06	0.94
	0.04	0.03	0.0	210,211,0	6.66e-03	5.83e-03	5.83e-03	212,67,67			1.00	0.04	0.96
2206	0.09	0.08	0.0	69,68,0	0.09	0.02	0.05	212,69,68	0.23	212	0.87	0.06	0.94
	0.04	0.03	0.0	210,211,0	0.09	6.63e-03	6.63e-03	212,67,67			1.00	0.04	0.96
2207	0.09	0.07	0.0	72,65,0	0.09	0.01	0.04	212,68,68	0.23	212	0.87	0.06	0.94
	0.02	0.02	0.0	213,216,0	0.09	5.79e-03	5.79e-03	212,67,67			1.00	0.04	0.96
2208	0.09	0.08	0.0	69,68,0	0.09	0.01	0.04	212,68,68	0.23	212	0.87	0.06	0.94
	0.03	0.02	0.0	210,211,0	0.09	6.63e-03	6.63e-03	212,67,67			1.00	0.04	0.96
2209	0.07	0.06	0.0	69,68,0	0.09	0.02	0.04	212,67,67	0.23	212	0.87	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.09	3.30e-03	3.30e-03	212,67,67			1.00	0.04	0.96
2210	0.08	0.06	0.0	72,68,0	0.09	0.03	0.05	212,68,65	0.23	212	0.87	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.09	4.16e-03	4.16e-03	212,67,67			1.00	0.04	0.96
2211	0.09	0.08	0.0	69,68,0	0.09	0.01	0.04	212,71,68	0.23	212	0.87	0.06	0.94
	0.03	0.02	0.0	210,211,0	0.09	6.63e-03	6.63e-03	212,67,67			1.00	0.04	0.96
2212	0.08	0.06	0.0	72,67,0	0.08	0.03	0.05	212,68,65	0.22	212	0.87	0.06	0.94
	0.02	0.01	0.0	215,214,0	0.08	4.16e-03	4.16e-03	212,67,67			1.00	0.04	0.96
2213	0.05	0.05	0.0	69,68,0	1.11e-03	0.03	0.04	232,67,67	0.03	228	0.87	0.06	0.94
	0.03	0.02	0.0	209,212,0	1.10e-03	2.93e-03	2.93e-03	228,67,67			1.00	0.04	0.96
2214	0.06	0.05	0.0	72,68,0	1.11e-03	0.03	0.05	232,68,65	0.03	228	0.87	0.06	0.94
	0.03	0.02	0.0	209,212,0	1.10e-03	3.44e-03	3.44e-03	228,67,67			1.00	0.04	0.96
2215	0.02	0.02	0.0	69,68,0	1.11e-03	0.03	0.03	232,67,67	0.03	228	0.87	0.06	0.94

	0.02	0.01	0.0	214,215,0	1.10e-03	1.47e-03	1.47e-03	228,216,216			1.00	0.04	0.96
2353	0.02	0.02	0.0	72,68,0	1.11e-03	0.03	0.04	232,68,67	0.03	228	0.87	0.06	0.94
	0.02	0.02	0.0	210,215,0	1.10e-03	2.27e-03	2.27e-03	228,240,240			1.00	0.04	0.96
2354	0.06	0.04	0.0	72,65,0	4.73e-04	0.03	0.05	209,68,65	0.02	209	0.87	0.06	0.94
	0.02	0.02	0.0	210,215,0	4.71e-04	3.44e-03	3.44e-03	209,67,67			1.00	0.04	0.96
2355	0.02	0.01	0.0	72,65,0	4.73e-04	0.03	0.04	209,68,67	0.02	209	0.87	0.06	0.94
	0.02	0.02	0.0	210,215,0	4.71e-04	2.27e-03	2.27e-03	209,240,240			1.00	0.04	0.96
3059	0.05	0.04	0.0	70,67,0	0.01	0.03	0.04	212,67,67	0.08	212	0.87	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.01	2.44e-03	2.44e-03	212,235,235			1.00	0.04	0.96
3060	0.05	0.05	0.0	70,68,0	0.01	0.03	0.04	212,69,68	0.08	212	0.87	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.01	2.44e-03	2.44e-03	212,235,235			1.00	0.04	0.96
3061	0.08	0.06	0.0	72,65,0	8.95e-03	0.02	0.04	212,67,67	0.07	212	0.87	0.06	0.94
	0.03	0.02	0.0	209,212,0	8.94e-03	5.24e-03	5.24e-03	212,67,67			1.00	0.04	0.96
3062	0.08	0.07	0.0	72,68,0	8.95e-03	0.02	0.05	212,69,68	0.07	212	0.87	0.06	0.94
	0.04	0.03	0.0	210,211,0	8.94e-03	5.83e-03	5.83e-03	212,67,67			1.00	0.04	0.96
3063	0.09	0.07	0.0	72,65,0	0.09	0.02	0.04	212,67,67	0.23	212	0.87	0.06	0.94
	0.03	0.02	0.0	214,215,0	0.09	5.79e-03	5.79e-03	212,67,67			1.00	0.04	0.96
3064	0.09	0.08	0.0	69,68,0	0.09	0.02	0.05	212,69,68	0.23	212	0.87	0.06	0.94
	0.04	0.03	0.0	210,211,0	0.09	6.63e-03	6.63e-03	212,67,67			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.09	0.08	0.0	0.09	0.03	0.05	0.23

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
65	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.35	7.5	202	0.23	4.9	208	0.14	1230.2	8.885e+04	221

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1701	0.04	0.04	0.0	237,240,0	5.09e-03	0.02	0.02	215,67,68	0.05	215	0.87	0.06	0.94
	8.32e-03	6.81e-03	0.0	71,66,0	5.08e-03	4.53e-03	4.53e-03	215,236,236			1.00	0.04	0.96
1702	0.04	0.04	0.0	237,240,0	0.01	0.02	0.02	234,67,68	0.08	234	0.87	0.06	0.94
	8.32e-03	6.81e-03	0.0	71,66,0	0.01	4.53e-03	4.53e-03	234,236,236			1.00	0.04	0.96
1704	0.02	0.02	0.0	215,214,0	0.01	0.02	0.02	234,215,214	0.08	234	0.87	0.06	0.94
	5.48e-03	4.43e-03	0.0	240,237,0	0.01	2.40e-03	2.40e-03	234,229,229			1.00	0.04	0.96
2216	0.01	0.01	0.0	69,68,0	1.07e-03	0.02	0.03	237,71,67	0.02	237	0.87	0.06	0.94
	9.46e-03	8.21e-03	0.0	69,68,0	1.05e-03	4.30e-03	4.30e-03	237,235,235			1.00	0.04	0.96
2217	0.01	0.01	0.0	69,68,0	4.34e-03	0.02	0.03	240,71,67	0.05	240	0.87	0.06	0.94
	9.46e-03	8.21e-03	0.0	69,68,0	4.34e-03	5.53e-03	5.53e-03	240,69,69			1.00	0.04	0.96
2218	0.02	0.02	0.0	215,214,0	4.34e-03	6.15e-03	8.63e-03	240,71,71	0.05	240	0.87	0.06	0.94
	0.03	0.02	0.0	209,212,0	4.34e-03	5.53e-03	5.53e-03	240,69,69			1.00	0.04	0.96
2219	5.33e-03	6.00e-03	0.0	240,237,0	4.34e-03	6.15e-03	8.03e-03	240,71,71	0.05	240	0.87	0.06	0.94
	2.19e-03	1.92e-03	0.0	234,235,0	4.34e-03	5.53e-03	5.53e-03	240,69,69			1.00	0.04	0.96
2232	0.05	0.04	0.0	69,67,0	6.11e-03	0.02	0.03	240,71,67	0.06	240	0.87	0.06	0.94
	0.06	0.04	0.0	212,209,0	6.10e-03	3.76e-03	3.76e-03	240,68,68			1.00	0.04	0.96
2233	0.06	0.05	0.0	69,67,0	0.06	0.01	0.03	212,66,67	0.19	212	0.87	0.06	0.94
	0.07	0.04	0.0	212,209,0	0.06	4.48e-03	4.48e-03	212,71,71			1.00	0.04	0.96
2234	0.06	0.05	0.0	69,67,0	0.06	0.01	0.03	212,66,67	0.19	212	0.87	0.06	0.94
	0.07	0.04	0.0	212,209,0	0.06	4.48e-03	4.48e-03	212,71,71			1.00	0.04	0.96
2241	0.02	0.02	0.0	215,214,0	0.01	0.02	0.02	234,215,214	0.08	234	0.87	0.06	0.94
	5.48e-03	4.43e-03	0.0	240,237,0	0.01	3.09e-03	3.09e-03	234,70,70			1.00	0.04	0.96
2242	0.02	0.02	0.0	71,68,0	6.11e-03	5.38e-03	9.33e-03	240,235,67	0.06	240	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	6.10e-03	3.09e-03	3.09e-03	240,70,70			1.00	0.04	0.96
2249	0.02	0.02	0.0	71,68,0	0.05	2.01e-03	8.98e-03	211,71,67	0.16	211	0.87	0.06	0.94
	0.03	0.02	0.0	212,209,0	0.05	8.29e-04	8.29e-04	211,70,70			1.00	0.04	0.96
2250	0.06	0.05	0.0	69,67,0	0.06	7.65e-03	0.03	212,69,67	0.19	212	0.87	0.06	0.94
	0.07	0.05	0.0	212,212,0	0.06	4.48e-03	4.48e-03	212,71,71			1.00	0.04	0.96
2359	0.06	0.05	0.0	69,67,0	0.06	7.65e-03	0.03	212,69,67	0.19	212	0.87	0.06	0.94
	0.07	0.05	0.0	212,212,0	0.06	4.48e-03	4.48e-03	212,71,71			1.00	0.04	0.96
2360	0.05	0.04	0.0	69,68,0	0.06	0.02	0.03	212,67,68	0.19	212	0.87	0.06	0.94
	0.07	0.05	0.0	209,212,0	0.06	3.07e-03	3.07e-03	212,69,69			1.00	0.04	0.96
2367	0.04	0.04	0.0	237,240,0	5.09e-03	0.02	0.03	215,67,67	0.05	215	0.87	0.06	0.94
	8.61e-03	6.81e-03	0.0	214,66,0	5.08e-03	4.53e-03	4.53e-03	215,236,236			1.00	0.04	0.96
2368	0.04	0.04	0.0	237,240,0	0.01	0.02	0.03	234,67,67	0.08	234	0.87	0.06	0.94
	8.61e-03	6.81e-03	0.0	214,66,0	0.01	4.53e-03	4.53e-03	234,236,236			1.00	0.04	0.96
2369	0.05	0.04	0.0	69,67,0	3.34e-03	0.02	0.03	215,71,67	0.04	215	0.87	0.06	0.94
	0.06	0.04	0.0	212,209,0	3.33e-03	3.76e-03	3.76e-03	215,68,68			1.00	0.04	0.96
2390	0.05	0.04	0.0	69,68,0	0.06	0.02	0.03	212,67,68	0.19	212	0.87	0.06	0.94

	0.07	0.05	0.0	209,212,0	0.06	3.07e-03	3.07e-03	212,69,69			1.00	0.04	0.96
2391	0.02	0.02	0.0	71,68,0	0.05	2.30e-03	9.09e-03	211,67,67	0.16	211	0.87	0.06	0.94
	0.03	0.02	0.0	212,212,0	0.05	1.39e-03	1.39e-03	211,66,66			1.00	0.04	0.96
2467	0.02	0.02	0.0	71,214,0	0.04	3.86e-03	9.09e-03	211,71,67	0.16	211	0.87	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.04	1.39e-03	1.39e-03	211,66,66			1.00	0.04	0.96
2468	0.04	0.03	0.0	69,68,0	1.12e-03	0.02	0.03	235,71,68	0.03	235	0.87	0.06	0.94
	0.07	0.05	0.0	209,212,0	1.11e-03	4.30e-03	4.30e-03	235,235,235			1.00	0.04	0.96
2469	0.04	0.03	0.0	69,68,0	4.34e-03	0.02	0.03	240,71,68	0.05	240	0.87	0.06	0.94
	0.07	0.05	0.0	209,212,0	4.34e-03	5.53e-03	5.53e-03	240,69,69			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.07	0.05	0.0	0.06	0.02	0.03	0.19

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
66	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.22	25.3	177	0.03	3.3	184	0.03	-2469.8	1.511e+05	228

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1641	0.01	0.02	0.0	237,240,0	6.04e-04	0.02	0.02	209,69,67	0.02	209	0.87	0.06	0.94
	0.03	0.02	0.0	214,215,0	6.04e-04	9.26e-04	9.26e-04	209,236,236			1.00	0.04	0.96
1642	0.04	0.04	0.0	215,214,0	0.01	0.02	0.02	209,69,67	0.08	209	0.87	0.06	0.94
	0.03	0.02	0.0	214,215,0	0.01	1.08e-03	1.08e-03	209,70,70			1.00	0.04	0.96
1644	0.04	0.04	0.0	215,214,0	0.02	0.01	0.01	214,67,67	0.11	214	0.87	0.06	0.94
	0.03	0.02	0.0	214,215,0	0.02	1.08e-03	1.08e-03	214,70,70			1.00	0.04	0.96
1646	0.02	0.02	0.0	235,234,0	0.03	7.75e-03	0.01	214,67,67	0.13	214	0.87	0.06	0.94
	0.03	0.02	0.0	214,215,0	0.03	4.90e-03	4.90e-03	214,70,70			1.00	0.04	0.96
1648	4.06e-03	0.01	0.0	209,212,0	0.03	3.82e-03	5.54e-03	214,67,67	0.13	214	0.87	0.06	0.94
	0.02	0.02	0.0	209,212,0	0.03	6.94e-03	6.94e-03	214,70,70			1.00	0.04	0.96
1660	0.02	0.03	0.0	235,234,0	0.02	7.26e-03	9.70e-03	228,67,67	0.10	228	0.87	0.06	0.94
	0.02	0.01	0.0	213,216,0	0.02	6.94e-03	6.94e-03	228,70,70			1.00	0.04	0.96
1662	0.02	0.03	0.0	235,234,0	0.01	7.26e-03	9.70e-03	212,67,67	0.08	212	0.87	0.06	0.94
	0.01	0.01	0.0	210,211,0	0.01	3.34e-03	3.34e-03	212,70,70			1.00	0.04	0.96
3010	0.03	0.02	0.0	70,67,0	1.82e-03	0.02	0.02	209,69,67	0.03	209	0.87	0.06	0.94
	0.03	0.02	0.0	214,215,0	1.82e-03	9.26e-04	9.26e-04	209,236,236			1.00	0.04	0.96
3011	0.04	0.04	0.0	215,214,0	0.01	0.02	0.02	209,69,67	0.08	209	0.87	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.01	2.12e-03	2.12e-03	209,68,68			1.00	0.04	0.96
3012	0.04	0.03	0.0	70,67,0	1.86e-03	0.01	0.02	212,70,67	0.03	212	0.87	0.06	0.94
	0.02	0.02	0.0	209,212,0	1.86e-03	5.55e-04	5.55e-04	212,233,233			1.00	0.04	0.96
3013	0.04	0.03	0.0	70,214,0	0.01	0.01	0.02	209,70,67	0.09	209	0.87	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.01	3.37e-03	3.37e-03	209,66,66			1.00	0.04	0.96
3014	0.04	0.03	0.0	70,67,0	0.01	4.87e-03	0.02	212,68,67	0.09	212	0.87	0.06	0.94
	0.01	8.18e-03	0.0	209,212,0	0.01	1.16e-03	1.16e-03	212,233,233			1.00	0.04	0.96
3015	0.04	0.03	0.0	70,67,0	0.03	4.87e-03	0.02	212,68,67	0.14	212	0.87	0.06	0.94
	0.03	0.02	0.0	209,212,0	0.03	3.63e-03	3.63e-03	212,70,70			1.00	0.04	0.96
3016	0.04	0.04	0.0	215,214,0	0.02	0.01	0.01	214,67,67	0.11	214	0.87	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.02	7.13e-03	7.13e-03	214,70,70			1.00	0.04	0.96
3017	0.03	0.03	0.0	215,214,0	0.03	6.79e-03	0.01	210,67,67	0.12	210	0.87	0.06	0.94
	0.06	0.04	0.0	209,212,0	0.03	0.01	0.01	210,70,70			1.00	0.04	0.96
3018	0.03	0.03	0.0	215,214,0	0.05	2.92e-03	0.01	209,71,67	0.18	209	0.87	0.06	0.94
	0.06	0.04	0.0	209,212,0	0.05	0.01	0.01	209,70,70			1.00	0.04	0.96
3019	0.02	0.02	0.0	235,234,0	0.03	7.75e-03	0.01	214,67,67	0.13	214	0.87	0.06	0.94
	0.05	0.04	0.0	209,212,0	0.03	0.01	0.01	214,70,70			1.00	0.04	0.96
3020	0.02	0.02	0.0	235,234,0	0.03	3.70e-03	8.78e-03	214,67,67	0.14	214	0.87	0.06	0.94
	0.09	0.06	0.0	213,216,0	0.03	0.02	0.02	214,70,70			1.00	0.04	0.96
3021	0.02	0.02	0.0	235,234,0	0.06	1.50e-03	7.20e-03	214,100,67	0.19	214	0.87	0.06	0.94
	0.09	0.06	0.0	213,216,0	0.06	0.02	0.02	214,70,70			1.00	0.04	0.96
3022	4.06e-03	0.01	0.0	209,212,0	0.03	3.82e-03	5.54e-03	214,67,67	0.13	214	0.87	0.06	0.94
	0.05	0.04	0.0	209,216,0	0.03	0.02	0.02	214,70,70			1.00	0.04	0.96
3023	3.72e-03	0.01	0.0	71,68,0	0.03	1.23e-03	4.47e-03	214,51,68	0.14	214	0.87	0.06	0.94
	0.12	0.09	0.0	209,212,0	0.03	0.02	0.02	214,70,70			1.00	0.04	0.96
3024	3.72e-03	0.01	0.0	71,68,0	0.08	1.60e-03	4.47e-03	212,100,68	0.22	212	0.87	0.06	0.94
	0.12	0.09	0.0	209,212,0	0.08	0.03	0.03	212,70,70			1.00	0.04	0.96
3025	0.04	0.04	0.0	237,240,0	0.05	5.35e-03	0.02	212,69,67	0.16	212	0.87	0.06	0.94
	0.10	0.07	0.0	209,212,0	0.05	3.66e-03	3.66e-03	212,234,234			1.00	0.04	0.96
3026	0.04	0.04	0.0	237,240,0	0.05	5.35e-03	0.02	212,69,67	0.16	212	0.87	0.06	0.94
	0.10	0.07	0.0	209,212,0	0.05	3.66e-03	3.66e-03	212,234,234			1.00	0.04	0.96
3027	0.04	0.04	0.0	237,240,0	0.05	0.01	0.02	212,68,68	0.16	212	0.87	0.06	0.94

	0.14	0.10	0.0	209,212,0	0.05	4.49e-03	4.49e-03	212,234,234			1.00	0.04	0.96
3028	0.04	0.04	0.0	237,240,0	0.05	0.01	0.02	212,68,68	0.16	212	0.87	0.06	0.94
	0.14	0.10	0.0	209,212,0	0.05	4.49e-03	4.49e-03	212,234,234			1.00	0.04	0.96
3029	0.03	0.02	0.0	71,214,0	0.05	3.66e-03	0.01	209,67,67	0.18	209	0.87	0.06	0.94
	0.07	0.05	0.0	209,212,0	0.05	0.01	0.01	209,70,70			1.00	0.04	0.96
3030	0.03	0.02	0.0	215,214,0	0.05	7.07e-03	0.01	209,67,67	0.17	209	0.87	0.06	0.94
	0.09	0.06	0.0	209,212,0	0.05	0.01	0.01	209,66,66			1.00	0.04	0.96
3031	0.02	0.02	0.0	235,67,0	0.06	1.97e-03	7.40e-03	214,67,67	0.19	214	0.87	0.06	0.94
	0.07	0.06	0.0	213,216,0	0.06	0.02	0.02	214,70,70			1.00	0.04	0.96
3032	0.01	0.01	0.0	71,67,0	0.05	3.74e-03	7.80e-03	214,67,67	0.17	214	0.87	0.06	0.94
	0.06	0.04	0.0	66,70,0	0.05	0.02	0.02	214,66,66			1.00	0.04	0.96
3033	5.11e-03	0.01	0.0	237,68,0	0.08	1.60e-03	4.34e-03	212,100,67	0.22	212	0.87	0.06	0.94
	0.09	0.07	0.0	213,216,0	0.08	0.03	0.03	212,70,70			1.00	0.04	0.96
3034	5.11e-03	0.01	0.0	237,212,0	0.06	1.41e-03	3.62e-03	212,99,67	0.19	212	0.87	0.06	0.94
	0.06	0.04	0.0	68,70,0	0.06	0.03	0.03	212,66,66			1.00	0.04	0.96
3035	0.03	0.03	0.0	237,240,0	2.45e-03	0.01	0.02	209,68,68	0.04	209	0.87	0.06	0.94
	0.14	0.10	0.0	209,212,0	2.45e-03	4.49e-03	4.49e-03	209,234,234			1.00	0.04	0.96
3036	0.03	0.03	0.0	237,240,0	2.45e-03	0.01	0.02	209,68,68	0.04	209	0.87	0.06	0.94
	0.14	0.10	0.0	209,212,0	2.45e-03	4.49e-03	4.49e-03	209,234,234			1.00	0.04	0.96
3037	0.01	9.73e-03	0.0	237,240,0	2.45e-03	0.01	0.02	209,68,68	0.04	209	0.87	0.06	0.94
	0.03	0.02	0.0	214,215,0	2.45e-03	1.18e-03	1.18e-03	209,66,66			1.00	0.04	0.96
3038	0.01	9.73e-03	0.0	237,240,0	2.45e-03	0.01	0.02	209,68,68	0.04	209	0.87	0.06	0.94
	0.03	0.02	0.0	210,211,0	2.45e-03	1.18e-03	1.18e-03	209,66,66			1.00	0.04	0.96
3039	0.02	0.02	0.0	215,214,0	8.03e-03	0.01	0.01	214,67,67	0.07	214	0.87	0.06	0.94
	0.09	0.06	0.0	209,212,0	8.02e-03	7.43e-03	7.43e-03	214,66,66			1.00	0.04	0.96
3040	7.09e-03	5.86e-03	0.0	71,67,0	2.31e-03	0.01	0.01	212,67,67	0.04	212	0.87	0.06	0.94
	0.03	0.02	0.0	210,211,0	2.31e-03	9.66e-04	9.66e-04	212,234,234			1.00	0.04	0.96
3041	0.01	0.01	0.0	71,67,0	0.01	7.10e-03	8.69e-03	214,71,71	0.09	214	0.87	0.06	0.94
	0.06	0.04	0.0	209,212,0	0.01	0.02	0.02	214,66,66			1.00	0.04	0.96
3042	4.10e-03	4.10e-03	0.0	71,105,0	5.68e-03	7.10e-03	8.69e-03	234,71,71	0.06	234	0.87	0.06	0.94
	0.03	0.02	0.0	214,211,0	5.68e-03	5.63e-03	5.63e-03	234,66,66			1.00	0.04	0.96
3043	4.17e-03	8.48e-03	0.0	237,212,0	0.01	1.99e-03	2.75e-03	214,234,67	0.09	214	0.87	0.06	0.94
	0.05	0.03	0.0	68,70,0	0.01	0.02	0.02	214,66,66			1.00	0.04	0.96
3044	6.81e-04	4.63e-03	0.0	237,105,0	6.03e-03	1.99e-03	2.72e-03	234,234,234	0.06	234	0.87	0.06	0.94
	0.02	0.02	0.0	209,212,0	6.03e-03	7.03e-03	7.03e-03	234,66,66			1.00	0.04	0.96
3045	0.02	0.03	0.0	235,234,0	0.02	7.26e-03	9.70e-03	228,67,67	0.10	228	0.87	0.06	0.94
	0.05	0.04	0.0	213,216,0	0.02	0.02	0.02	228,70,70			1.00	0.04	0.96
3046	0.02	0.03	0.0	237,240,0	0.02	4.73e-03	9.52e-03	212,67,67	0.11	212	0.87	0.06	0.94
	0.13	0.10	0.0	209,212,0	0.02	0.02	0.02	212,70,70			1.00	0.04	0.96
3047	0.02	0.03	0.0	237,240,0	0.09	4.48e-03	9.71e-03	212,68,67	0.23	212	0.87	0.06	0.94
	0.13	0.10	0.0	209,212,0	0.09	0.03	0.03	212,70,70			1.00	0.04	0.96
3048	0.02	0.03	0.0	235,234,0	0.01	7.26e-03	9.70e-03	212,67,67	0.08	212	0.87	0.06	0.94
	0.04	0.03	0.0	209,212,0	0.01	0.01	0.01	212,70,70			1.00	0.04	0.96
3049	0.02	0.03	0.0	237,240,0	0.01	4.73e-03	9.52e-03	212,67,67	0.08	212	0.87	0.06	0.94
	0.13	0.10	0.0	209,212,0	0.01	0.02	0.02	212,70,70			1.00	0.04	0.96
3050	0.02	0.03	0.0	237,240,0	0.09	4.48e-03	9.71e-03	212,68,67	0.23	212	0.87	0.06	0.94
	0.13	0.10	0.0	209,212,0	0.09	0.02	0.02	212,70,70			1.00	0.04	0.96
3051	0.03	0.03	0.0	215,240,0	0.09	4.48e-03	9.71e-03	212,68,67	0.23	212	0.87	0.06	0.94
	0.10	0.07	0.0	209,212,0	0.09	0.03	0.03	212,70,70			1.00	0.04	0.96
3052	0.03	0.03	0.0	215,214,0	0.06	4.39e-03	8.29e-03	212,67,67	0.19	212	0.87	0.06	0.94
	0.07	0.05	0.0	212,209,0	0.06	0.03	0.03	212,66,66			1.00	0.04	0.96
3053	0.03	0.03	0.0	215,240,0	0.09	4.48e-03	9.71e-03	212,68,67	0.23	212	0.87	0.06	0.94
	0.10	0.07	0.0	209,212,0	0.09	0.02	0.02	212,70,70			1.00	0.04	0.96
3054	0.03	0.03	0.0	215,214,0	0.05	4.39e-03	8.29e-03	212,67,67	0.18	212	0.87	0.06	0.94
	0.07	0.05	0.0	212,209,0	0.05	0.01	0.01	212,66,66			1.00	0.04	0.96
3055	0.02	0.02	0.0	215,209,0	9.16e-03	7.68e-03	9.19e-03	232,71,67	0.07	232	0.87	0.06	0.94
	0.05	0.03	0.0	212,70,0	9.17e-03	0.02	0.02	232,66,66			1.00	0.04	0.96
3056	6.76e-03	6.36e-03	0.0	215,214,0	6.03e-03	7.68e-03	9.19e-03	234,71,67	0.06	234	0.87	0.06	0.94
	0.02	0.02	0.0	213,216,0	6.03e-03	7.03e-03	7.03e-03	234,66,66			1.00	0.04	0.96
3057	0.02	0.02	0.0	215,209,0	3.27e-03	7.68e-03	9.19e-03	232,71,67	0.04	232	0.87	0.06	0.94
	0.05	0.03	0.0	212,209,0	3.27e-03	0.01	0.01	232,66,66			1.00	0.04	0.96
3058	6.76e-03	6.36e-03	0.0	215,214,0	2.82e-03	7.68e-03	9.19e-03	240,71,67	0.04	240	0.87	0.06	0.94
	0.02	0.01	0.0	209,212,0	2.82e-03	3.77e-03	3.77e-03	240,70,70			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.14	0.10	0.0	0.09	0.03	0.03	0.23

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
67	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	

ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0	

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1662	6.62e-03	5.59e-03	0.0	214,215,0	0.06	8.49e-04	1.43e-03	212,235,215	0.19	212	0.56	0.09	0.91
	0.02	0.02	0.0	215,214,0	0.06	2.69e-03	2.69e-03	212,67,67			1.00	0.04	0.96
1680	5.99e-04	8.61e-04	0.0	238,239,0	0.07	6.34e-04	8.01e-04	212,70,70	0.21	212	0.56	0.09	0.91
	0.03	0.02	0.0	213,216,0	0.07	0.02	0.02	212,70,70			1.00	0.04	0.96
1721	6.62e-03	5.59e-03	0.0	214,215,0	0.07	1.43e-03	1.60e-03	212,70,70	0.21	212	0.56	0.09	0.91
	0.02	0.02	0.0	215,214,0	0.07	5.94e-03	5.94e-03	212,67,67			1.00	0.04	0.96
1723	6.43e-03	5.41e-03	0.0	214,215,0	0.08	1.43e-03	1.60e-03	212,70,70	0.22	212	0.56	0.09	0.91
	0.01	0.01	0.0	69,68,0	0.08	8.72e-03	8.72e-03	212,67,67			1.00	0.04	0.96
1725	4.82e-03	4.14e-03	0.0	214,215,0	0.08	1.26e-03	1.36e-03	212,70,66	0.22	212	0.56	0.09	0.91
	0.03	0.02	0.0	213,216,0	0.08	0.02	0.02	212,70,70			1.00	0.04	0.96
2220	8.05e-03	7.04e-03	0.0	209,212,0	0.07	2.20e-03	3.13e-03	212,70,70	0.21	212	0.56	0.09	0.91
	0.02	0.02	0.0	215,214,0	0.07	5.94e-03	5.94e-03	212,67,67			1.00	0.04	0.96
2221	0.07	0.06	0.0	209,212,0	0.07	8.92e-03	0.01	212,67,68	0.20	212	0.56	0.09	0.91
	0.02	0.02	0.0	237,234,0	0.07	7.55e-03	7.55e-03	212,67,67			1.00	0.04	0.96
2222	0.07	0.06	0.0	209,212,0	0.05	8.92e-03	0.01	212,67,68	0.17	212	0.56	0.09	0.91
	0.02	0.02	0.0	237,212,0	0.05	7.55e-03	7.55e-03	212,67,67			1.00	0.04	0.96
2356	0.01	8.41e-03	0.0	209,212,0	0.08	1.43e-03	2.14e-03	212,70,70	0.22	212	0.56	0.09	0.91
	0.02	0.02	0.0	69,68,0	0.08	8.72e-03	8.72e-03	212,67,67			1.00	0.04	0.96
2357	0.05	0.04	0.0	209,212,0	0.07	3.97e-03	0.01	212,70,68	0.21	212	0.56	0.09	0.91
	0.02	0.02	0.0	69,68,0	0.07	4.91e-03	4.91e-03	212,67,67			1.00	0.04	0.96
2358	0.05	0.04	0.0	209,212,0	0.05	3.97e-03	0.01	212,70,68	0.16	212	0.56	0.09	0.91
	8.50e-03	6.09e-03	0.0	213,216,0	0.05	4.91e-03	4.91e-03	212,67,67			1.00	0.04	0.96
2370	0.01	0.01	0.0	209,212,0	0.08	1.26e-03	2.14e-03	212,70,70	0.22	212	0.56	0.09	0.91
	0.04	0.03	0.0	72,65,0	0.08	0.02	0.02	212,70,70			1.00	0.04	0.96
2372	0.03	0.02	0.0	214,215,0	0.07	7.92e-03	0.01	212,67,69	0.21	212	0.56	0.09	0.91
	0.04	0.03	0.0	72,65,0	0.07	0.01	0.01	212,67,67			1.00	0.04	0.96
2373	0.03	0.02	0.0	214,215,0	0.04	7.92e-03	0.01	212,67,69	0.16	212	0.56	0.09	0.91
	0.03	0.02	0.0	216,213,0	0.04	0.01	0.01	212,67,67			1.00	0.04	0.96
3048	6.62e-03	5.59e-03	0.0	214,215,0	0.06	2.20e-03	3.13e-03	212,70,70	0.19	212	0.56	0.09	0.91
	0.02	0.02	0.0	215,214,0	0.06	3.37e-03	3.37e-03	212,70,70			1.00	0.04	0.96
3049	0.07	0.06	0.0	209,212,0	0.06	8.92e-03	0.01	212,67,68	0.18	212	0.56	0.09	0.91
	0.02	0.02	0.0	237,234,0	0.06	7.55e-03	7.55e-03	212,67,67			1.00	0.04	0.96
3050	0.07	0.06	0.0	209,212,0	0.05	8.92e-03	0.01	212,67,68	0.17	212	0.56	0.09	0.91
	0.02	0.02	0.0	237,212,0	0.05	7.55e-03	7.55e-03	212,67,67			1.00	0.04	0.96
3059	0.01	0.01	0.0	209,212,0	0.07	8.41e-04	1.55e-03	212,235,215	0.21	212	0.56	0.09	0.91
	0.04	0.03	0.0	72,65,0	0.07	0.02	0.02	212,70,70			1.00	0.04	0.96
3061	0.01	0.01	0.0	209,212,0	0.06	7.92e-03	0.01	212,67,69	0.20	212	0.56	0.09	0.91
	0.04	0.03	0.0	72,65,0	0.06	0.01	0.01	212,67,67			1.00	0.04	0.96
3063	0.01	7.86e-03	0.0	214,215,0	0.04	7.92e-03	0.01	212,67,69	0.16	212	0.56	0.09	0.91
	0.03	0.02	0.0	216,213,0	0.04	0.01	0.01	212,67,67			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.07	0.06	0.0	0.08	0.02	0.02	0.22

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
68	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2181	0.01	8.92e-03	0.0	214,215,0	0.03	5.59e-04	1.82e-03	212,235,235	0.13	212	0.33	0.14	0.86
	5.25e-03	3.62e-03	0.0	68,69,0	0.03	6.73e-03	6.73e-03	212,68,68			1.00	0.04	0.96
2183	0.03	0.03	0.0	209,212,0	0.03	2.05e-03	0.01	212,69,68	0.13	212	0.33	0.14	0.86
	7.68e-03	5.12e-03	0.0	209,212,0	0.03	2.73e-03	2.73e-03	212,69,69			1.00	0.04	0.96
2200	7.97e-03	6.35e-03	0.0	214,215,0	0.03	5.59e-04	1.82e-03	212,235,235	0.13	212	0.33	0.14	0.86
	3.29e-03	2.46e-03	0.0	69,68,0	0.03	2.73e-03	2.73e-03	212,69,69			1.00	0.04	0.96
2201	0.02	0.01	0.0	213,216,0	0.02	5.67e-03	0.01	212,68,68	0.12	212	0.33	0.14	0.86
	0.03	0.02	0.0	212,209,0	0.02	8.37e-03	8.37e-03	212,68,68			1.00	0.04	0.96
2202	0.05	0.04	0.0	209,212,0	0.03	5.87e-03	0.01	212,69,68	0.13	212	0.33	0.14	0.86
	0.02	0.01	0.0	209,212,0	0.03	9.82e-03	9.82e-03	212,66,66			1.00	0.04	0.96
2203	0.03	0.03	0.0	209,212,0	0.02	2.05e-03	0.01	212,69,68	0.12	212	0.33	0.14	0.86
	7.68e-03	5.12e-03	0.0	209,212,0	0.02	1.64e-03	1.64e-03	212,69,69			1.00	0.04	0.96
2212	4.59e-03	3.45e-03	0.0	69,234,0	0.02	5.67e-03	6.89e-03	212,68,236	0.12	212	0.33	0.14	0.86

	0.03	0.02	0.0	212,209,0	0.02	8.37e-03	8.37e-03	212,68,68			1.00	0.04	0.96
2216	8.71e-03	7.73e-03	0.0	212,209,0	0.02	5.49e-04	1.13e-03	212,71,237	0.12	212	0.33	0.14	0.86
	0.02	0.01	0.0	214,68,0	0.02	9.46e-03	9.46e-03	212,68,68			1.00	0.04	0.96
2223	6.12e-03	4.73e-03	0.0	240,237,0	0.03	3.15e-04	1.49e-03	212,240,235	0.13	212	0.33	0.14	0.86
	5.67e-03	4.20e-03	0.0	69,68,0	0.03	7.62e-03	7.62e-03	212,66,66			1.00	0.04	0.96
2224	0.05	0.04	0.0	209,212,0	0.03	5.87e-03	0.01	212,69,68	0.13	212	0.33	0.14	0.86
	0.02	0.01	0.0	209,212,0	0.03	9.82e-03	9.82e-03	212,66,66			1.00	0.04	0.96
2354	0.01	9.58e-03	0.0	210,211,0	0.02	5.67e-03	6.89e-03	212,68,236	0.12	212	0.33	0.14	0.86
	0.03	0.02	0.0	212,209,0	0.02	8.81e-03	8.81e-03	212,71,71			1.00	0.04	0.96
2355	0.01	9.58e-03	0.0	210,211,0	0.02	6.07e-04	1.67e-03	212,68,215	0.12	212	0.33	0.14	0.86
	0.02	0.01	0.0	215,214,0	0.02	8.81e-03	8.81e-03	212,71,71			1.00	0.04	0.96
2360	0.05	0.04	0.0	209,212,0	0.03	5.87e-03	0.01	212,69,68	0.13	212	0.33	0.14	0.86
	0.02	0.01	0.0	209,212,0	0.03	9.82e-03	9.82e-03	212,66,66			1.00	0.04	0.96
2376	0.02	0.01	0.0	213,216,0	0.03	5.67e-03	0.01	212,68,68	0.13	212	0.33	0.14	0.86
	0.03	0.02	0.0	212,209,0	0.03	8.81e-03	8.81e-03	212,71,71			1.00	0.04	0.96
2468	0.05	0.04	0.0	209,212,0	0.03	5.87e-03	0.01	212,69,68	0.13	212	0.33	0.14	0.86
	0.02	0.01	0.0	209,212,0	0.03	9.82e-03	9.82e-03	212,66,66			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.05	0.04	0.0	0.03	9.82e-03	0.01	0.13

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
69	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2180	0.04	0.02	0.0	212,209,0	0.03	6.79e-03	8.62e-03	212,70,233	0.13	212	0.33	0.14	0.86
	0.02	0.01	0.0	212,209,0	0.03	6.59e-03	6.59e-03	212,67,67			1.00	0.04	0.96
2182	0.02	0.01	0.0	236,233,0	0.03	2.97e-03	8.32e-03	212,70,237	0.13	212	0.33	0.14	0.86
	7.61e-03	5.28e-03	0.0	212,209,0	0.03	1.53e-03	1.53e-03	212,67,67			1.00	0.04	0.96
2184	0.02	0.02	0.0	209,212,0	0.03	4.72e-03	8.63e-03	212,67,68	0.14	212	0.33	0.14	0.86
	0.03	0.02	0.0	209,212,0	0.03	5.93e-03	5.93e-03	212,67,67			1.00	0.04	0.96
2185	0.04	0.02	0.0	212,209,0	0.03	6.79e-03	8.62e-03	212,70,233	0.14	212	0.33	0.14	0.86
	0.02	0.01	0.0	212,209,0	0.03	6.59e-03	6.59e-03	212,67,67			1.00	0.04	0.96
2186	9.98e-03	7.97e-03	0.0	209,212,0	0.03	1.93e-03	3.02e-03	212,236,70	0.14	212	0.33	0.14	0.86
	3.87e-03	2.54e-03	0.0	216,233,0	0.03	4.85e-03	4.85e-03	212,67,67			1.00	0.04	0.96
2187	0.02	0.01	0.0	236,233,0	0.04	2.97e-03	8.32e-03	212,70,237	0.15	212	0.33	0.14	0.86
	7.61e-03	5.28e-03	0.0	212,209,0	0.04	2.88e-03	2.88e-03	212,69,69			1.00	0.04	0.96
2188	8.46e-03	6.28e-03	0.0	209,212,0	0.04	1.76e-03	3.29e-03	212,70,70	0.15	212	0.33	0.14	0.86
	3.39e-03	2.36e-03	0.0	65,72,0	0.04	2.88e-03	2.88e-03	212,69,69			1.00	0.04	0.96
2189	0.02	0.02	0.0	209,212,0	0.04	4.72e-03	8.63e-03	212,67,68	0.15	212	0.33	0.14	0.86
	0.03	0.02	0.0	209,212,0	0.04	0.01	0.01	212,236,236			1.00	0.04	0.96
2190	4.41e-03	3.37e-03	0.0	214,215,0	0.04	1.80e-03	3.29e-03	212,236,70	0.15	212	0.33	0.14	0.86
	5.31e-03	3.85e-03	0.0	69,68,0	0.04	5.78e-03	5.78e-03	212,67,67			1.00	0.04	0.96
2209	0.02	0.02	0.0	209,212,0	0.03	4.72e-03	8.63e-03	212,67,68	0.14	212	0.33	0.14	0.86
	0.03	0.02	0.0	209,212,0	0.03	5.93e-03	5.93e-03	212,67,67			1.00	0.04	0.96
2213	0.02	0.02	0.0	209,212,0	0.03	4.72e-03	8.63e-03	212,67,68	0.14	212	0.33	0.14	0.86
	0.03	0.02	0.0	209,212,0	0.03	0.01	0.01	212,236,236			1.00	0.04	0.96
2215	5.27e-03	4.48e-03	0.0	232,229,0	0.03	1.80e-03	3.11e-03	212,236,233	0.14	212	0.33	0.14	0.86
	0.02	0.02	0.0	213,216,0	0.03	0.01	0.01	212,236,236			1.00	0.04	0.96
3054	0.04	0.02	0.0	212,209,0	0.03	6.79e-03	8.62e-03	212,70,233	0.13	212	0.33	0.14	0.86
	0.02	0.01	0.0	212,209,0	0.03	6.59e-03	6.59e-03	212,67,67			1.00	0.04	0.96
3057	0.04	0.02	0.0	212,209,0	0.03	6.79e-03	8.62e-03	212,70,233	0.13	212	0.33	0.14	0.86
	0.02	0.01	0.0	212,209,0	0.03	6.59e-03	6.59e-03	212,67,67			1.00	0.04	0.96
3058	0.02	0.01	0.0	209,212,0	0.03	3.06e-03	3.06e-03	212,70,70	0.13	212	0.33	0.14	0.86
	0.02	0.01	0.0	212,209,0	0.03	4.85e-03	4.85e-03	212,67,67			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.04	0.02	0.0	0.04	0.01	0.01	0.15

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
70	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.10	6.1	105	0.22	13.0	183	0.25	-4355.3	-3.217e+05	99

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1828	0.08	0.04	0.0	99,107,0	5.78e-03	0.03	0.04235,214,107		0.06	235	0.87	0.06	0.94
	0.05	0.01	0.0	235,234,0	5.78e-03	0.02	0.02 235,99,99				1.00	0.04	0.96
1850	0.08	0.04	0.0	99,235,0	7.78e-03	0.03	0.04107,214,107		0.07	107	0.87	0.06	0.94
	0.05	0.01	0.0	235,234,0	7.78e-03	0.02	0.02 107,99,99				1.00	0.04	0.96
1852	9.31e-03	0.05	0.0	240,237,0	7.78e-03	7.57e-03	0.01107,233,233		0.07	107	0.87	0.06	0.94
	0.05	0.01	0.0	100,234,0	7.78e-03	5.10e-03	5.10e-03107,240,240				1.00	0.04	0.96
1854	0.01	0.05	0.0	214,215,0	3.10e-03	0.01	0.02221,236,239		0.04	221	0.87	0.06	0.94
	0.02	7.07e-03	0.0	100,234,0	3.10e-03	3.82e-03	3.82e-03221,236,236				1.00	0.04	0.96
1856	0.01	0.05	0.0	214,215,0	3.10e-03	0.01	0.02221,236,239		0.04	221	0.87	0.06	0.94
	4.89e-03	3.94e-03	0.0	221,224,0	3.10e-03	2.17e-03	2.17e-03221,236,236				1.00	0.04	0.96
2163	0.08	0.04	0.0	99,105,0	0.05	0.03	0.04100,214,107		0.17	100	0.87	0.06	0.94
	0.05	0.01	0.0	235,234,0	0.05	0.02	0.02 100,99,99				1.00	0.04	0.96
2164	0.04	0.04	0.0	99,105,0	0.05	0.02	0.03100,99,107		0.17	100	0.87	0.06	0.94
	0.05	0.01	0.0	235,234,0	0.05	7.34e-03	7.34e-03100,240,240				1.00	0.04	0.96
2165	0.02	0.05	0.0	103,105,0	0.03	7.63e-03	0.01235,100,100		0.14	235	0.87	0.06	0.94
	0.01	4.43e-03	0.0	99,235,0	0.03	4.48e-03	4.48e-03235,235,235				1.00	0.04	0.96
2174	0.0	0.06	0.0	0,105,0	0.03	3.36e-03	0.01107,107,105		0.14	107	0.0	0.0	0.0
	6.86e-03	7.43e-03	0.0	235,234,0	0.03	5.29e-03	5.29e-03107,235,235				1.00	0.04	0.96
2175	0.0	0.07	0.0	0,105,0	0.05	8.59e-03	0.02107,234,105		0.17	107	0.0	0.0	0.0
	6.86e-03	0.04	0.0	235,107,0	0.05	6.69e-03	6.69e-03107,107,107				1.00	0.04	0.96
2262	0.0	0.07	0.0	0,105,0	0.05	0.01	0.02107,234,105		0.17	107	0.0	0.0	0.0
	0.01	0.04	0.0	234,107,0	0.05	6.69e-03	6.69e-03107,107,107				1.00	0.04	0.96
2263	0.0	0.06	0.0	0,105,0	5.28e-03	0.01	0.02107,234,105		0.06	107	0.0	0.0	0.0
	0.01	0.03	0.0	234,107,0	5.23e-03	6.51e-03	6.51e-03107,234,234				1.00	0.04	0.96
2264	0.08	0.04	0.0	99,235,0	0.05	0.03	0.04100,214,107		0.17	100	0.87	0.06	0.94
	0.05	0.01	0.0	235,234,0	0.05	0.02	0.02 100,99,99				1.00	0.04	0.96
2265	0.04	0.04	0.0	99,235,0	0.05	0.02	0.03100,99,107		0.17	100	0.87	0.06	0.94
	0.05	0.01	0.0	100,234,0	0.05	7.34e-03	7.34e-03100,240,240				1.00	0.04	0.96
2266	0.02	0.05	0.0	103,105,0	0.04	7.63e-03	0.01100,100,100		0.16	100	0.87	0.06	0.94
	0.01	5.73e-03	0.0	99,235,0	0.04	4.48e-03	4.48e-03100,235,235				1.00	0.04	0.96
2267	0.01	0.05	0.0	240,237,0	0.04	7.57e-03	0.01100,233,233		0.16	100	0.87	0.06	0.94
	0.05	0.01	0.0	100,234,0	0.04	5.10e-03	5.10e-03100,240,240				1.00	0.04	0.96
2268	0.02	0.05	0.0	240,237,0	0.04	4.68e-03	0.01100,235,235		0.16	100	0.87	0.06	0.94
	0.05	0.01	0.0	100,234,0	0.04	2.51e-03	2.51e-03100,240,240				1.00	0.04	0.96
2269	0.02	0.04	0.0	234,237,0	0.04	2.98e-03	0.01100,236,237		0.16	100	0.87	0.06	0.94
	0.01	5.73e-03	0.0	235,235,0	0.04	2.51e-03	2.51e-03100,240,240				1.00	0.04	0.96
2270	0.02	0.05	0.0	234,215,0	0.01	0.01	0.02107,236,239		0.09	107	0.87	0.06	0.94
	0.03	7.07e-03	0.0	100,234,0	0.01	3.82e-03	3.82e-03107,236,236				1.00	0.04	0.96
2271	0.02	0.05	0.0	238,235,0	0.02	6.26e-03	0.02100,233,239		0.10	100	0.87	0.06	0.94
	0.03	7.01e-03	0.0	100,234,0	0.02	2.10e-03	2.10e-03100,240,240				1.00	0.04	0.96
2272	0.03	0.05	0.0	234,235,0	0.02	3.18e-03	0.01100,233,239		0.11	100	0.87	0.06	0.94
	6.42e-03	4.26e-03	0.0	235,235,0	0.02	1.58e-03	1.58e-03100,235,235				1.00	0.04	0.96
2273	0.02	0.05	0.0	234,215,0	3.61e-03	0.01	0.02215,236,239		0.05	215	0.87	0.06	0.94
	7.14e-03	3.94e-03	0.0	235,224,0	3.61e-03	2.17e-03	2.17e-03215,236,236				1.00	0.04	0.96
2274	0.02	0.05	0.0	238,235,0	5.50e-03	6.26e-03	0.02215,233,239		0.06	215	0.87	0.06	0.94
	7.14e-03	2.92e-03	0.0	235,234,0	5.50e-03	1.21e-03	1.21e-03215,240,240				1.00	0.04	0.96
2275	0.03	0.05	0.0	234,235,0	5.50e-03	3.18e-03	0.01215,233,239		0.06	215	0.87	0.06	0.94
	2.05e-03	1.66e-03	0.0	234,240,0	5.50e-03	1.21e-03	1.21e-03215,240,240				1.00	0.04	0.96
2276	0.01	0.06	0.0	234,105,0	0.04	3.36e-03	0.01100,107,105		0.16	100	0.87	0.06	0.94
	0.01	7.43e-03	0.0	235,234,0	0.04	5.29e-03	5.29e-03100,235,235				1.00	0.04	0.96
2277	0.01	0.07	0.0	234,105,0	0.05	8.59e-03	0.02107,234,105		0.17	107	0.87	0.06	0.94
	9.73e-03	0.04	0.0	235,107,0	0.05	6.69e-03	6.69e-03107,107,107				1.00	0.04	0.96
2278	0.02	0.04	0.0	234,235,0	0.04	2.61e-03	0.01100,235,235		0.16	100	0.87	0.06	0.94
	0.01	6.63e-03	0.0	235,234,0	0.04	1.72e-03	1.72e-03100,240,240				1.00	0.04	0.96
2371	0.02	0.03	0.0	234,235,0	0.04	5.29e-03	0.01100,234,235		0.16	100	0.87	0.06	0.94
	9.73e-03	0.03	0.0	235,107,0	0.04	2.50e-03	2.50e-03100,107,107				1.00	0.04	0.96
2374	0.03	0.04	0.0	234,235,0	0.02	3.95e-03	0.01100,234,235		0.11	100	0.87	0.06	0.94
	6.42e-03	4.26e-03	0.0	235,235,0	0.02	1.58e-03	1.58e-03100,235,235				1.00	0.04	0.96
2375	0.02	0.03	0.0	234,235,0	0.02	7.00e-03	0.01100,235,235		0.11	100	0.87	0.06	0.94
	4.73e-03	0.02	0.0	235,107,0	0.02	2.50e-03	2.50e-03100,107,107				1.00	0.04	0.96
2378	0.03	0.04	0.0	234,235,0	5.15e-03	3.95e-03	0.01215,234,235		0.06	215	0.87	0.06	0.94
	1.64e-03	1.38e-03	0.0	237,235,0	5.14e-03	1.09e-03	1.09e-03215,235,235				1.00	0.04	0.96
2379	0.02	0.03	0.0	234,235,0	5.08e-03	7.00e-03	0.01215,235,235		0.05	215	0.87	0.06	0.94
	1.31e-03	5.08e-03	0.0	235,107,0	5.07e-03	1.19e-03	1.19e-03215,107,107				1.00	0.04	0.96
2465	9.84e-03	0.07	0.0	234,105,0	0.05	0.01	0.02107,234,105		0.17	107	0.87	0.06	0.94
	0.01	0.04	0.0	234,107,0	0.05	6.69e-03	6.69e-03107,107,107				1.00	0.04	0.96
2466	5.55e-03	0.06	0.0	234,105,0	0.02	0.01	0.02235,234,105		0.10	235	0.87	0.06	0.94
	0.01	0.03	0.0	234,107,0	0.02	6.51e-03	6.51e-03235,234,234				1.00	0.04	0.96
2471	0.01	0.03	0.0	234,107,0	0.04	7.32e-03	0.01100,233,235		0.16	100	0.87	0.06	0.94
	9.94e-03	0.03	0.0	234,107,0	0.04	3.21e-03	3.21e-03100,105,105				1.00	0.04	0.96

2473	5.55e-03	0.02	0.0	234,107,0	0.02	7.32e-03	8.96e-03	235,233,233	0.10	235	0.87	0.06	0.94
	9.94e-03	0.03	0.0	234,107,0	0.02	3.21e-03	3.21e-03	235,105,105			1.00	0.04	0.96
2474	0.02	0.02	0.0	234,235,0	0.02	9.28e-03	0.01	215,235,235	0.10	215	0.87	0.06	0.94
	2.44e-03	0.02	0.0	234,107,0	0.02	2.59e-03	2.59e-03	215,105,105			1.00	0.04	0.96
2477	6.43e-03	6.31e-03	0.0	234,235,0	4.96e-03	9.28e-03	0.01	215,235,235	0.05	215	0.87	0.06	0.94
	2.44e-03	0.01	0.0	234,107,0	4.96e-03	2.59e-03	2.59e-03	215,105,105			1.00	0.04	0.96
2491	0.02	0.02	0.0	234,235,0	3.41e-03	9.28e-03	0.01	215,235,235	0.04	215	0.87	0.06	0.94
	6.74e-04	5.08e-03	0.0	234,107,0	3.40e-03	1.40e-03	1.40e-03	215,235,235			1.00	0.04	0.96
2493	6.43e-03	6.31e-03	0.0	234,235,0	1.39e-03	9.28e-03	0.01	105,235,235	0.03	105	0.87	0.06	0.94
	1.19e-04	2.97e-03	0.0	226,105,0	1.39e-03	1.40e-03	1.40e-03	105,235,235			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.08	0.07	0.0	0.05	0.03	0.04	0.17

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
71	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.33	-19.6	100	0.33	-19.7	100	0.15	-1292.3	1.898e+05	214

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1884	6.51e-03	0.04	0.0	224,100,0	3.07e-03	9.63e-03	0.01	217,234,234	0.04	217	0.87	0.06	0.94
	0.0	6.35e-03	0.0	0,100,0	3.07e-03	2.38e-03	2.38e-03	217,99,99			0.0	0.0	0.0
1885	6.51e-03	0.04	0.0	224,100,0	6.58e-03	9.63e-03	0.01	100,234,234	0.06	100	0.87	0.06	0.94
	5.95e-03	0.01	0.0	99,100,0	6.58e-03	5.74e-03	5.74e-03	100,100,100			1.00	0.04	0.96
1887	6.47e-03	0.04	0.0	214,100,0	0.02	6.97e-03	0.01	100,239,235	0.10	100	0.87	0.06	0.94
	0.02	0.02	0.0	99,100,0	0.02	6.03e-03	6.03e-03	100,100,100			1.00	0.04	0.96
1889	9.77e-03	0.04	0.0	214,100,0	0.05	0.02	0.03	100,100,100	0.17	100	0.87	0.06	0.94
	0.02	0.02	0.0	99,100,0	0.05	0.01	0.01	100,100,100			1.00	0.04	0.96
1891	9.77e-03	0.04	0.0	214,100,0	0.05	0.02	0.03	100,100,100	0.17	100	0.87	0.06	0.94
	0.01	0.01	0.0	99,100,0	0.05	0.01	0.01	100,100,100			1.00	0.04	0.96
2288	0.02	0.03	0.0	234,100,0	0.02	3.03e-03	9.80e-03	100,100,239	0.11	100	0.87	0.06	0.94
	8.46e-03	7.11e-03	0.0	234,235,0	0.02	2.17e-03	2.17e-03	100,99,99			1.00	0.04	0.96
2289	9.77e-03	0.05	0.0	214,100,0	0.05	0.02	0.03	100,100,100	0.17	100	0.87	0.06	0.94
	0.03	0.02	0.0	100,100,0	0.05	0.01	0.01	100,100,100			1.00	0.04	0.96
2290	7.67e-03	0.05	0.0	214,100,0	0.05	0.01	0.03	100,100,100	0.16	100	0.87	0.06	0.94
	0.03	0.02	0.0	100,100,0	0.05	0.01	0.01	100,100,100			1.00	0.04	0.96
2291	0.01	0.03	0.0	234,107,0	0.05	5.51e-03	0.01	100,107,107	0.17	100	0.87	0.06	0.94
	0.01	0.01	0.0	107,107,0	0.05	8.24e-03	8.24e-03	100,107,107			1.00	0.04	0.96
2292	7.66e-03	0.03	0.0	234,107,0	0.05	5.25e-03	0.01	100,107,107	0.16	100	0.87	0.06	0.94
	4.88e-03	4.50e-03	0.0	237,235,0	0.05	4.75e-03	4.75e-03	100,235,235			1.00	0.04	0.96
2293	7.78e-03	0.03	0.0	234,107,0	0.05	5.51e-03	0.01	100,107,107	0.17	100	0.87	0.06	0.94
	8.03e-03	9.59e-03	0.0	107,107,0	0.05	8.24e-03	8.24e-03	100,107,107			1.00	0.04	0.96
2294	0.01	0.02	0.0	240,237,0	1.29e-03	9.69e-03	0.01	217,233,233	0.03	217	0.87	0.06	0.94
	3.29e-03	1.55e-03	0.0	228,229,0	1.29e-03	1.58e-03	1.58e-03	217,233,233			1.00	0.04	0.96
2296	0.01	0.02	0.0	240,237,0	6.74e-03	9.69e-03	0.01	100,233,233	0.06	100	0.87	0.06	0.94
	6.62e-03	6.80e-03	0.0	107,107,0	6.75e-03	3.20e-03	3.20e-03	100,107,107			1.00	0.04	0.96
2297	9.40e-03	0.04	0.0	234,100,0	0.04	8.98e-03	0.02	100,100,100	0.16	100	0.87	0.06	0.94
	8.46e-03	7.11e-03	0.0	234,235,0	0.04	4.66e-03	4.66e-03	100,235,235			1.00	0.04	0.96
2298	9.77e-03	0.05	0.0	214,100,0	0.05	0.02	0.03	100,100,100	0.17	100	0.87	0.06	0.94
	0.02	0.02	0.0	100,100,0	0.05	0.01	0.01	100,100,100			1.00	0.04	0.96
2299	5.11e-03	6.32e-03	0.0	240,237,0	1.29e-03	9.69e-03	0.01	217,233,233	0.03	217	0.87	0.06	0.94
	3.29e-03	1.55e-03	0.0	228,229,0	1.29e-03	1.58e-03	1.58e-03	217,233,233			1.00	0.04	0.96
2300	5.11e-03	6.32e-03	0.0	240,237,0	6.08e-03	9.69e-03	0.01	100,233,233	0.06	100	0.87	0.06	0.94
	6.40e-03	2.97e-03	0.0	107,107,0	6.08e-03	2.68e-03	2.68e-03	100,107,107			1.00	0.04	0.96
2301	0.01	0.02	0.0	234,235,0	0.02	7.68e-03	9.90e-03	100,235,235	0.11	100	0.87	0.06	0.94
	0.01	0.01	0.0	107,107,0	0.02	3.20e-03	3.20e-03	100,107,107			1.00	0.04	0.96
2302	4.43e-03	5.52e-03	0.0	234,235,0	0.02	7.68e-03	9.57e-03	100,235,235	0.11	100	0.87	0.06	0.94
	9.58e-03	9.41e-03	0.0	107,107,0	0.02	3.16e-03	3.16e-03	100,107,107			1.00	0.04	0.96
2303	7.78e-03	0.06	0.0	234,107,0	0.07	0.02	0.03	100,107,107	0.20	100	0.87	0.06	0.94
	0.01	0.01	0.0	107,107,0	0.07	8.91e-03	8.91e-03	100,107,107			1.00	0.04	0.96
2304	3.61e-03	6.98e-03	0.0	234,107,0	0.04	9.11e-03	0.01	100,107,107	0.16	100	0.87	0.06	0.94
	9.58e-03	9.41e-03	0.0	107,107,0	0.04	3.16e-03	3.16e-03	100,107,107			1.00	0.04	0.96
2305	7.67e-03	0.05	0.0	214,100,0	0.05	0.01	0.03	100,100,100	0.16	100	0.87	0.06	0.94
	0.02	0.02	0.0	100,100,0	0.05	0.01	0.01	100,100,100			1.00	0.04	0.96
2306	6.40e-03	0.04	0.0	234,100,0	0.04	8.98e-03	0.02	100,100,100	0.16	100	0.87	0.06	0.94
	4.88e-03	4.45e-03	0.0	237,235,0	0.04	4.66e-03	4.66e-03	100,235,235			1.00	0.04	0.96
2309	7.78e-03	0.06	0.0	234,107,0	0.07	0.02	0.03	100,107,107	0.20	100	0.87	0.06	0.94
	0.01	0.01	0.0	107,107,0	0.07	8.91e-03	8.91e-03	100,107,107			1.00	0.04	0.96

2310	3.61e-03	0.06	0.0	238,107,0	0.07	0.02	0.03100,107,107	0.20	100	0.87	0.06	0.94
	0.01	0.01	0.0	107,107,0	0.07	8.91e-03	8.91e-03100,107,107			1.00	0.04	0.96
2325	0.02	0.03	0.0	240,237,0	1.34e-03	3.72e-03	0.01221,236,233	0.03	221	0.87	0.06	0.94
	1.69e-03	1.52e-03	0.0	235,235,0	1.34e-03	1.39e-03	1.39e-03221,235,235			1.00	0.04	0.96
2331	0.02	0.03	0.0	240,237,0	7.41e-03	3.72e-03	0.01100,236,233	0.07	100	0.87	0.06	0.94
	6.33e-03	5.33e-03	0.0	235,235,0	7.41e-03	1.87e-03	1.87e-03100,235,235			1.00	0.04	0.96
2348	0.02	0.03	0.0	240,237,0	1.29e-03	6.34e-03	0.01217,236,233	0.03	217	0.87	0.06	0.94
	1.69e-03	1.52e-03	0.0	235,235,0	1.29e-03	1.55e-03	1.55e-03217,107,107			1.00	0.04	0.96
2361	0.02	0.03	0.0	240,237,0	7.18e-03	6.34e-03	0.01100,236,233	0.07	100	0.87	0.06	0.94
	6.62e-03	6.80e-03	0.0	107,107,0	7.18e-03	3.20e-03	3.20e-03100,107,107			1.00	0.04	0.96
2494	0.01	0.04	0.0	236,100,0	3.07e-03	9.63e-03	0.01217,234,233	0.04	217	0.87	0.06	0.94
	1.81e-03	6.35e-03	0.0	216,100,0	3.07e-03	2.63e-03	2.63e-03217,100,100			1.00	0.04	0.96
2520	0.01	0.04	0.0	236,100,0	7.32e-03	9.63e-03	0.01100,234,233	0.07	100	0.87	0.06	0.94
	0.01	0.01	0.0	100,100,0	7.32e-03	5.74e-03	5.74e-03100,100,100			1.00	0.04	0.96
2521	0.02	0.03	0.0	236,233,0	2.15e-03	6.07e-03	0.01217,234,233	0.04	217	0.87	0.06	0.94
	2.03e-03	3.37e-03	0.0	236,100,0	2.14e-03	2.63e-03	2.63e-03217,100,100			1.00	0.04	0.96
2522	0.02	0.03	0.0	236,233,0	7.48e-03	6.07e-03	0.01100,234,233	0.07	100	0.87	0.06	0.94
	0.01	0.01	0.0	100,100,0	7.48e-03	5.48e-03	5.48e-03100,100,100			1.00	0.04	0.96
2523	0.02	0.03	0.0	240,233,0	1.58e-03	3.67e-03	0.01221,235,233	0.03	221	0.87	0.06	0.94
	2.03e-03	1.56e-03	0.0	236,238,0	1.57e-03	1.33e-03	1.33e-03221,236,236			1.00	0.04	0.96
2525	0.02	0.03	0.0	234,235,0	0.02	3.03e-03	9.58e-03100,100,235	0.11	100	0.87	0.06	0.94
	8.78e-03	7.87e-03	0.0	235,235,0	0.02	1.87e-03	1.87e-03100,235,235			1.00	0.04	0.96
2526	0.02	0.02	0.0	234,235,0	0.02	4.83e-03	9.90e-03100,234,235	0.11	100	0.87	0.06	0.94
	0.01	0.01	0.0	107,107,0	0.02	3.20e-03	3.20e-03100,107,107			1.00	0.04	0.96
2527	0.01	0.03	0.0	234,107,0	0.05	5.25e-03	0.01100,107,107	0.16	100	0.87	0.06	0.94
	8.78e-03	7.87e-03	0.0	235,235,0	0.05	4.75e-03	4.75e-03100,235,235			1.00	0.04	0.96
2528	0.02	0.03	0.0	240,233,0	7.48e-03	3.67e-03	0.01100,235,233	0.07	100	0.87	0.06	0.94
	6.92e-03	4.83e-03	0.0	236,238,0	7.48e-03	1.61e-03	1.61e-03100,235,235			1.00	0.04	0.96
2529	6.47e-03	0.04	0.0	214,100,0	0.02	6.97e-03	0.01100,239,235	0.11	100	0.87	0.06	0.94
	0.03	0.02	0.0	100,100,0	0.02	6.03e-03	6.03e-03100,100,100			1.00	0.04	0.96
2532	0.01	0.04	0.0	234,100,0	0.02	4.68e-03	0.01100,233,235	0.11	100	0.87	0.06	0.94
	0.03	0.02	0.0	100,100,0	0.02	5.48e-03	5.48e-03100,100,100			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.03	0.06	0.0	0.07	0.02	0.03	0.20

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
72	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.39	23.0	196	0.37	21.8	207	0.15	1033.1	2.118e+05	215

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1520	0.04	0.04	0.0	215,214,0	6.77e-04	0.03	0.04	228,44,42	0.02	228	0.87	0.06	0.94
	0.01	5.23e-03	0.0	43,46,0	6.70e-04	3.50e-03	3.50e-03	228,44,44			1.00	0.04	0.96
1521	0.04	0.04	0.0	215,225,0	0.05	0.03	0.04	228,44,42	0.18	228	0.87	0.06	0.94
	0.01	5.23e-03	0.0	43,46,0	0.05	5.69e-03	5.69e-03	228,44,44			1.00	0.04	0.96
1523	0.04	0.04	0.0	228,225,0	0.05	0.02	0.03	228,44,42	0.18	228	0.87	0.06	0.94
	0.01	3.38e-03	0.0	44,46,0	0.05	5.69e-03	5.69e-03	228,44,44			1.00	0.04	0.96
1525	0.02	0.02	0.0	214,215,0	0.05	6.93e-03	0.01	228,214,215	0.17	228	0.87	0.06	0.94
	4.50e-03	2.34e-03	0.0	43,46,0	0.05	2.53e-03	2.53e-03	228,45,45			1.00	0.04	0.96
2894	0.05	0.06	0.0	47,42,0	3.87e-03	0.03	0.04	100,44,42	0.05	100	0.87	0.06	0.94
	0.01	5.23e-03	0.0	43,46,0	3.87e-03	3.50e-03	3.50e-03	100,44,44			1.00	0.04	0.96
2895	0.05	0.06	0.0	47,42,0	0.05	0.03	0.04	228,44,42	0.18	228	0.87	0.06	0.94
	0.02	6.88e-03	0.0	44,46,0	0.05	5.69e-03	5.69e-03	228,44,44			1.00	0.04	0.96
2896	0.07	0.07	0.0	47,42,0	7.72e-03	0.02	0.04	228,45,42	0.07	228	0.87	0.06	0.94
	8.16e-03	4.25e-03	0.0	99,228,0	7.70e-03	3.19e-03	3.19e-03	228,44,44			1.00	0.04	0.96
2897	0.07	0.07	0.0	47,42,0	0.05	0.02	0.04	228,45,42	0.17	228	0.87	0.06	0.94
	0.02	0.01	0.0	44,42,0	0.05	3.19e-03	3.19e-03	228,44,44			1.00	0.04	0.96
2898	0.07	0.08	0.0	47,42,0	0.01	9.31e-03	0.04	228,45,42	0.08	228	0.87	0.06	0.94
	0.01	9.63e-03	0.0	228,225,0	0.01	3.30e-03	3.30e-03	228,45,45			1.00	0.04	0.96
2899	0.07	0.08	0.0	47,42,0	0.04	9.31e-03	0.04	228,45,42	0.15	228	0.87	0.06	0.94
	0.01	0.01	0.0	45,42,0	0.04	3.30e-03	3.30e-03	228,45,45			1.00	0.04	0.96
2900	0.04	0.04	0.0	228,225,0	0.05	0.02	0.03	228,44,42	0.18	228	0.87	0.06	0.94
	0.02	6.88e-03	0.0	44,46,0	0.05	7.81e-03	7.81e-03	228,44,44			1.00	0.04	0.96
2901	0.04	0.05	0.0	47,42,0	0.05	0.01	0.03	228,44,44	0.17	228	0.87	0.06	0.94
	0.02	0.01	0.0	44,42,0	0.05	9.70e-03	9.70e-03	228,44,44			1.00	0.04	0.96
2902	0.04	0.05	0.0	47,42,0	0.04	6.03e-03	0.02	228,212,44	0.16	228	0.87	0.06	0.94
	0.01	0.01	0.0	45,42,0	0.04	0.01	0.01	228,45,45			1.00	0.04	0.96

2903	0.02	0.03	0.0	210,211,0	0.05	6.93e-03	0.01228,214,215	0.17	228	0.87	0.06	0.94
	9.85e-03	5.53e-03	0.0	44,46,0	0.05	7.81e-03	7.81e-03 228,44,44			1.00	0.04	0.96
2904	0.03	0.03	0.0	214,215,0	0.05	3.36e-03	9.83e-03228,212,212	0.17	228	0.87	0.06	0.94
	9.85e-03	7.43e-03	0.0	44,44,0	0.05	9.70e-03	9.70e-03 228,44,44			1.00	0.04	0.96
2905	0.03	0.03	0.0	214,215,0	0.04	6.03e-03	0.01228,212,212	0.16	228	0.87	0.06	0.94
	0.01	7.96e-03	0.0	45,42,0	0.04	0.01	0.01 228,45,45			1.00	0.04	0.96
2906	0.07	0.08	0.0	47,42,0	0.03	0.01	0.04 228,44,42	0.13	228	0.87	0.06	0.94
	0.09	0.06	0.0	225,228,0	0.03	4.13e-03	4.13e-03228,212,212			1.00	0.04	0.96
2907	0.07	0.08	0.0	47,42,0	0.03	0.01	0.04 228,44,42	0.14	228	0.87	0.06	0.94
	0.09	0.06	0.0	225,228,0	0.03	4.13e-03	4.13e-03228,212,212			1.00	0.04	0.96
2908	0.06	0.08	0.0	47,42,0	0.03	0.02	0.04 228,45,42	0.13	228	0.87	0.06	0.94
	0.12	0.08	0.0	225,228,0	0.03	5.55e-03	5.55e-03228,212,212			1.00	0.04	0.96
2909	0.06	0.08	0.0	47,42,0	0.03	0.02	0.04 228,45,42	0.13	228	0.87	0.06	0.94
	0.12	0.08	0.0	225,228,0	0.03	5.55e-03	5.55e-03228,212,212			1.00	0.04	0.96
2910	0.04	0.05	0.0	47,42,0	0.04	6.55e-03	0.02 228,48,44	0.16	228	0.87	0.06	0.94
	0.06	0.04	0.0	225,228,0	0.04	0.01	0.01 228,45,45			1.00	0.04	0.96
2911	0.04	0.04	0.0	47,44,0	0.03	0.01	0.02 228,44,44	0.12	228	0.87	0.06	0.94
	0.08	0.05	0.0	225,228,0	0.03	9.70e-03	9.70e-03 228,45,45			1.00	0.04	0.96
2912	0.03	0.04	0.0	214,215,0	0.04	6.03e-03	0.02228,212,212	0.16	228	0.87	0.06	0.94
	0.02	0.02	0.0	225,228,0	0.04	0.01	0.01 228,45,45			1.00	0.04	0.96
2913	0.03	0.04	0.0	214,215,0	0.03	9.26e-03	0.02228,212,212	0.12	228	0.87	0.06	0.94
	0.03	0.02	0.0	225,228,0	0.03	9.70e-03	9.70e-03 228,45,45			1.00	0.04	0.96
2914	0.04	0.06	0.0	47,42,0	0.02	0.03	0.04 225,45,42	0.12	225	0.87	0.06	0.94
	0.12	0.08	0.0	225,228,0	0.02	5.55e-03	5.55e-03225,212,212			1.00	0.04	0.96
2915	0.04	0.06	0.0	47,42,0	0.03	0.03	0.04 235,45,42	0.13	235	0.87	0.06	0.94
	0.12	0.08	0.0	225,228,0	0.03	5.55e-03	5.55e-03235,212,212			1.00	0.04	0.96
2916	9.91e-03	0.02	0.0	47,42,0	0.02	0.03	0.03 225,45,42	0.12	225	0.87	0.06	0.94
	0.01	9.30e-03	0.0	44,45,0	0.02	4.60e-03	4.60e-03 225,45,45			1.00	0.04	0.96
2917	9.91e-03	0.02	0.0	47,42,0	0.03	0.03	0.03 235,45,42	0.13	235	0.87	0.06	0.94
	0.01	9.33e-03	0.0	44,215,0	0.03	4.60e-03	4.60e-03 235,45,45			1.00	0.04	0.96
2918	0.03	0.03	0.0	47,44,0	0.03	0.02	0.02 235,44,44	0.13	235	0.87	0.06	0.94
	0.08	0.05	0.0	225,228,0	0.03	8.46e-03	8.46e-03 235,45,45			1.00	0.04	0.96
2919	8.10e-03	0.02	0.0	47,44,0	0.03	0.02	0.02 235,44,44	0.13	235	0.87	0.06	0.94
	0.01	9.33e-03	0.0	214,215,0	0.03	7.88e-03	7.88e-03 235,45,45			1.00	0.04	0.96
2920	0.02	0.03	0.0	214,215,0	0.01	0.02	0.02235,212,212	0.09	235	0.87	0.06	0.94
	0.03	0.02	0.0	225,228,0	0.01	8.46e-03	8.46e-03 235,45,45			1.00	0.04	0.96
2921	0.01	0.02	0.0	228,215,0	0.02	0.02	0.02235,212,212	0.10	235	0.87	0.06	0.94
	0.01	0.01	0.0	209,212,0	0.02	7.88e-03	7.88e-03 235,45,45			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.12	0.08	0.0	0.05	0.03	0.04	0.18

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
73	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1683	7.82e-03	6.18e-03	0.0	214,215,0	0.06	8.22e-04	1.22e-03	212,70,216	0.18	212	0.56	0.09	0.91
	0.02	0.02	0.0	215,214,0	0.06	0.01	0.01	212,67,67			1.00	0.04	0.96
1701	2.04e-03	1.72e-03	0.0	234,235,0	0.06	1.12e-03	1.40e-03	212,72,66	0.18	212	0.56	0.09	0.91
	0.03	0.02	0.0	237,240,0	0.06	0.01	0.01	212,70,70			1.00	0.04	0.96
1716	7.82e-03	6.18e-03	0.0	214,215,0	0.06	8.22e-04	1.26e-03	212,70,66	0.19	212	0.56	0.09	0.91
	0.02	0.02	0.0	215,214,0	0.06	0.01	0.01	212,67,67			1.00	0.04	0.96
1735	6.58e-03	5.23e-03	0.0	214,215,0	0.06	5.59e-04	1.42e-03	212,233,67	0.19	212	0.56	0.09	0.91
	0.01	0.01	0.0	69,68,0	0.06	9.35e-03	9.35e-03	212,70,70			1.00	0.04	0.96
1739	5.54e-03	4.43e-03	0.0	210,211,0	0.06	1.12e-03	1.42e-03	212,72,67	0.19	212	0.56	0.09	0.91
	0.03	0.02	0.0	237,240,0	0.06	0.01	0.01	212,70,70			1.00	0.04	0.96
2191	7.82e-03	6.18e-03	0.0	214,215,0	0.06	1.24e-03	1.65e-03	212,240,239	0.19	212	0.56	0.09	0.91
	0.04	0.03	0.0	69,68,0	0.06	0.01	0.01	212,67,67			1.00	0.04	0.96
2192	0.02	0.02	0.0	210,211,0	0.06	9.18e-03	0.01	212,69,70	0.19	212	0.56	0.09	0.91
	0.04	0.03	0.0	69,68,0	0.06	0.02	0.02	212,71,71			1.00	0.04	0.96
2193	0.02	0.02	0.0	210,211,0	0.04	9.18e-03	0.01	212,69,70	0.15	212	0.56	0.09	0.91
	0.02	0.02	0.0	233,236,0	0.04	0.02	0.02	212,71,71			1.00	0.04	0.96
2194	6.61e-03	5.23e-03	0.0	209,215,0	0.06	5.59e-04	1.42e-03	212,233,67	0.19	212	0.56	0.09	0.91
	0.02	0.02	0.0	70,68,0	0.06	9.35e-03	9.35e-03	212,70,70			1.00	0.04	0.96
2195	0.03	0.02	0.0	216,213,0	0.06	3.24e-03	0.01	212,67,69	0.19	212	0.56	0.09	0.91
	0.02	0.02	0.0	70,68,0	0.06	5.34e-03	5.34e-03	212,70,70			1.00	0.04	0.96

2196	0.03	0.02	0.0	216,213,0	0.04	3.24e-03	0.01	212,67,69	0.15	212	0.56	0.09	0.91
	9.13e-03	6.75e-03	0.0	216,213,0	0.04	5.34e-03	5.34e-03	212,70,70			1.00	0.04	0.96
2197	9.73e-03	6.94e-03	0.0	209,212,0	0.06	1.17e-03	1.70e-03	3212,240,236	0.19	212	0.56	0.09	0.91
	0.04	0.03	0.0	70,67,0	0.06	0.01	0.01	212,70,70			1.00	0.04	0.96
2198	0.04	0.03	0.0	212,209,0	0.06	9.42e-03	0.01	212,71,233	0.18	212	0.56	0.09	0.91
	0.04	0.03	0.0	70,67,0	0.06	0.02	0.02	212,70,70			1.00	0.04	0.96
2199	0.04	0.03	0.0	212,209,0	0.04	9.42e-03	0.01	212,71,233	0.15	212	0.56	0.09	0.91
	0.02	0.02	0.0	72,65,0	0.04	0.02	0.02	212,70,70			1.00	0.04	0.96
2204	7.82e-03	6.18e-03	0.0	214,215,0	0.06	1.24e-03	1.65e-03	3212,240,239	0.18	212	0.56	0.09	0.91
	0.04	0.03	0.0	69,68,0	0.06	0.01	0.01	212,67,67			1.00	0.04	0.96
2205	0.02	0.02	0.0	210,211,0	0.05	9.18e-03	0.01	212,69,70	0.17	212	0.56	0.09	0.91
	0.04	0.03	0.0	69,68,0	0.05	0.02	0.02	212,71,71			1.00	0.04	0.96
2206	0.02	0.02	0.0	210,211,0	0.04	9.18e-03	0.01	212,69,70	0.15	212	0.56	0.09	0.91
	0.02	0.02	0.0	233,236,0	0.04	0.02	0.02	212,71,71			1.00	0.04	0.96
2233	0.04	0.03	0.0	212,209,0	0.04	9.42e-03	0.01	212,71,233	0.15	212	0.56	0.09	0.91
	0.02	0.02	0.0	72,65,0	0.04	0.02	0.02	212,70,70			1.00	0.04	0.96
2367	9.73e-03	6.94e-03	0.0	209,212,0	0.06	1.17e-03	1.70e-03	3212,240,236	0.18	212	0.56	0.09	0.91
	0.04	0.03	0.0	70,67,0	0.06	0.01	0.01	212,70,70			1.00	0.04	0.96
2369	0.04	0.03	0.0	212,209,0	0.05	9.42e-03	0.01	212,71,233	0.17	212	0.56	0.09	0.91
	0.04	0.03	0.0	70,67,0	0.05	0.02	0.02	212,70,70			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.04	0.03	0.0	0.06	0.02	0.02	0.19

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
74	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.31	-77.2	187	0.18	45.8	186	0.27	-3576.2	2.189e+06	219

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1230	0.01	0.02	0.0	230,219,0	7.73e-04	0.01	0.01	105,226,226	0.02	105	0.87	0.06	0.94
	6.93e-03	5.19e-03	0.0	226,227,0	7.73e-04	1.70e-03	1.70e-03	105,226,226			1.00	0.04	0.96
1234	0.02	0.03	0.0	227,226,0	0.02	7.21e-03	0.01	219,225,228	0.11	219	0.87	0.06	0.94
	0.03	1.84e-03	0.0	99,46,0	0.02	2.33e-03	2.33e-03	219,45,45			1.00	0.04	0.96
1235	0.03	0.03	0.0	219,218,0	3.95e-03	0.01	0.01	219,227,226	0.05	219	0.87	0.06	0.94
	0.02	0.01	0.0	231,230,0	3.95e-03	5.36e-03	5.36e-03	219,226,226			1.00	0.04	0.96
1237	0.03	0.03	0.0	219,218,0	0.01	0.01	0.01	219,227,226	0.08	219	0.87	0.06	0.94
	0.02	0.01	0.0	231,230,0	0.01	5.95e-03	5.95e-03	219,231,231			1.00	0.04	0.96
1239	0.02	0.03	0.0	219,218,0	0.02	9.59e-03	0.01	219,227,230	0.10	219	0.87	0.06	0.94
	0.02	8.54e-03	0.0	225,228,0	0.02	5.95e-03	5.95e-03	219,231,231			1.00	0.04	0.96
1241	0.01	0.02	0.0	219,107,0	0.02	6.98e-03	9.54e-03	219,229,230	0.12	219	0.87	0.06	0.94
	0.01	2.37e-03	0.0	99,221,0	0.02	2.35e-03	2.35e-03	219,232,232			1.00	0.04	0.96
1243	3.41e-03	0.02	0.0	231,107,0	0.02	6.54e-03	9.39e-03	219,225,228	0.12	219	0.87	0.06	0.94
	0.02	0.0	0.0	27,0,0	0.02	1.18e-03	1.18e-03	219,46,46			1.00	0.04	0.96
1245	0.01	0.03	0.0	227,226,0	0.02	7.21e-03	0.01	219,225,228	0.11	219	0.87	0.06	0.94
	0.02	1.68e-03	0.0	99,46,0	0.02	2.16e-03	2.16e-03	219,46,46			1.00	0.04	0.96
1246	0.02	0.02	0.0	229,232,0	1.32e-03	7.47e-03	0.01	100,226,226	0.03	100	0.87	0.06	0.94
	3.66e-03	2.20e-03	0.0	227,226,0	1.32e-03	2.60e-03	2.60e-03	100,227,227			1.00	0.04	0.96
1247	0.02	0.02	0.0	227,232,0	5.91e-04	6.10e-03	0.01	100,226,226	0.02	100	0.87	0.06	0.94
	3.15e-03	1.18e-03	0.0	230,231,0	5.91e-04	1.02e-03	1.02e-03	100,227,227			1.00	0.04	0.96
1278	0.02	0.02	0.0	227,226,0	0.03	6.54e-03	0.01	219,231,230	0.13	219	0.87	0.06	0.94
	0.05	1.84e-03	0.0	99,46,0	0.03	2.33e-03	2.33e-03	219,45,45			1.00	0.04	0.96
1280	6.20e-03	0.01	0.0	227,219,0	0.03	6.32e-03	8.66e-03	219,234,227	0.14	219	0.87	0.06	0.94
	0.07	0.0	0.0	100,0,0	0.03	9.78e-04	9.78e-04	219,45,45			1.00	0.04	0.96
1282	0.03	0.05	0.0	218,219,0	0.03	7.09e-03	0.01	219,234,231	0.14	219	0.87	0.06	0.94
	0.09	0.0	0.0	100,0,0	0.03	4.30e-04	4.30e-04	219,46,46			1.00	0.04	0.96
1284	0.04	0.05	0.0	230,219,0	0.03	7.69e-03	0.01	219,234,231	0.14	219	0.87	0.06	0.94
	0.09	0.0	0.0	100,0,0	0.03	4.77e-04	4.77e-04	219,219,219			1.00	0.04	0.96
1286	0.04	0.04	0.0	230,105,0	1.90e-04	7.69e-03	0.01	105,234,227	0.01	105	0.87	0.06	0.94
	0.06	0.0	0.0	99,0,0	1.89e-04	4.77e-04	4.77e-04	105,219,219			1.00	0.04	0.96
1315	0.02	0.02	0.0	227,232,0	1.59e-04	3.15e-03	0.01	229,231,226	9.67e-03	229	0.87	0.06	0.94
	1.62e-03	6.28e-04	0.0	221,219,0	1.58e-04	2.50e-04	2.50e-04	229,226,226			1.00	0.04	0.96
1316	0.02	0.02	0.0	226,227,0	1.49e-04	3.09e-03	0.01	229,226,227	9.04e-03	229	0.87	0.06	0.94
	1.10e-03	1.00e-03	0.0	218,231,0	1.38e-04	2.50e-04	2.50e-04	229,226,226			1.00	0.04	0.96
2591	0.02	0.03	0.0	227,230,0	0.02	7.21e-03	0.01	218,225,228	0.11	218	0.87	0.06	0.94
	0.05	8.31e-03	0.0	3,46,0	0.02	4.19e-03	4.19e-03	218,45,45			1.00	0.04	0.96
2592	0.03	0.03	0.0	231,218,0	3.95e-03	0.01	0.01	219,227,226	0.05	219	0.87	0.06	0.94
	0.02	0.01	0.0	231,230,0	3.95e-03	5.36e-03	5.36e-03	219,226,226			1.00	0.04	0.96

2593	0.02	0.03	0.0	227,230,0	0.02	2.75e-03	8.79e-03	218,228,228	0.12	218	0.87	0.06	0.94
	0.05	0.02	0.0	3,46,0	0.02	4.42e-03	4.42e-03	218,47,47			1.00	0.04	0.96
2594	0.03	0.03	0.0	231,230,0	2.68e-03	6.10e-03	0.01	219,226,226	0.04	219	0.87	0.06	0.94
	8.19e-03	2.48e-03	0.0	230,231,0	2.68e-03	1.02e-03	1.02e-03	219,227,227			1.00	0.04	0.96
2595	0.02	0.03	0.0	227,230,0	0.02	1.16e-03	7.06e-03	218,225,228	0.12	218	0.87	0.06	0.94
	0.04	0.02	0.0	43,42,0	0.02	4.94e-03	4.94e-03	218,227,227			1.00	0.04	0.96
2596	0.03	0.03	0.0	231,230,0	1.84e-03	3.15e-03	0.01	219,231,226	0.03	219	0.87	0.06	0.94
	4.22e-03	1.35e-03	0.0	221,219,0	1.84e-03	2.80e-04	2.80e-04	219,226,226			1.00	0.04	0.96
2597	0.03	0.03	0.0	231,218,0	0.01	0.01	0.01	219,227,226	0.08	219	0.87	0.06	0.94
	0.02	0.01	0.0	231,230,0	0.01	5.95e-03	5.95e-03	219,231,231			1.00	0.04	0.96
2598	0.03	0.03	0.0	231,230,0	9.04e-03	5.59e-03	0.01	219,227,226	0.07	219	0.87	0.06	0.94
	0.01	2.48e-03	0.0	99,231,0	9.04e-03	9.52e-04	9.52e-04	219,229,229			1.00	0.04	0.96
2599	0.03	0.03	0.0	231,230,0	6.90e-03	2.79e-03	0.01	219,225,230	0.06	219	0.87	0.06	0.94
	6.90e-03	1.35e-03	0.0	99,219,0	6.90e-03	4.76e-04	4.76e-04	219,43,43			1.00	0.04	0.96
2600	0.02	0.03	0.0	231,218,0	0.02	9.59e-03	0.01	219,227,230	0.10	219	0.87	0.06	0.94
	0.02	8.54e-03	0.0	225,228,0	0.02	5.95e-03	5.95e-03	219,231,231			1.00	0.04	0.96
2601	0.03	0.03	0.0	231,230,0	0.02	5.52e-03	0.01	219,227,230	0.09	219	0.87	0.06	0.94
	0.02	1.51e-03	0.0	99,225,0	0.02	1.24e-03	1.24e-03	219,226,226			1.00	0.04	0.96
2602	0.03	0.03	0.0	231,230,0	0.01	2.60e-03	0.01	219,226,230	0.08	219	0.87	0.06	0.94
	0.01	1.79e-03	0.0	27,12,0	0.01	1.30e-03	1.30e-03	219,46,46			1.00	0.04	0.96
2603	0.01	0.02	0.0	231,230,0	0.02	6.98e-03	0.01	219,229,230	0.12	219	0.87	0.06	0.94
	0.02	2.37e-03	0.0	27,221,0	0.02	2.35e-03	2.35e-03	219,232,232			1.00	0.04	0.96
2604	0.02	0.02	0.0	231,230,0	0.02	5.26e-03	0.01	219,227,230	0.10	219	0.87	0.06	0.94
	0.02	1.82e-03	0.0	27,46,0	0.02	2.26e-03	2.26e-03	219,46,46			1.00	0.04	0.96
2605	0.02	0.02	0.0	231,230,0	0.02	2.60e-03	9.80e-03	219,226,228	0.09	219	0.87	0.06	0.94
	0.02	4.15e-03	0.0	43,46,0	0.02	2.48e-03	2.48e-03	219,42,42			1.00	0.04	0.96
2606	0.01	0.02	0.0	231,230,0	0.02	6.54e-03	0.01	219,225,228	0.12	219	0.87	0.06	0.94
	0.03	1.81e-03	0.0	43,46,0	0.02	2.74e-03	2.74e-03	219,46,46			1.00	0.04	0.96
2607	0.01	0.02	0.0	231,230,0	0.02	4.66e-03	0.01	219,225,228	0.10	219	0.87	0.06	0.94
	0.03	6.77e-03	0.0	43,46,0	0.02	3.46e-03	3.46e-03	219,46,46			1.00	0.04	0.96
2608	0.02	0.02	0.0	231,230,0	0.02	2.41e-03	9.26e-03	219,228,228	0.09	219	0.87	0.06	0.94
	0.03	0.01	0.0	43,46,0	0.02	3.74e-03	3.74e-03	219,42,42			1.00	0.04	0.96
2609	0.02	0.03	0.0	231,230,0	0.02	7.21e-03	0.01	219,225,228	0.11	219	0.87	0.06	0.94
	0.05	7.18e-03	0.0	43,46,0	0.02	4.04e-03	4.04e-03	219,46,46			1.00	0.04	0.96
2610	0.02	0.03	0.0	231,230,0	0.02	3.85e-03	9.23e-03	218,225,228	0.11	218	0.87	0.06	0.94
	0.05	0.01	0.0	43,46,0	0.02	4.37e-03	4.37e-03	218,46,46			1.00	0.04	0.96
2611	0.02	0.03	0.0	231,230,0	0.02	1.57e-03	8.05e-03	218,228,228	0.11	218	0.87	0.06	0.94
	0.04	0.02	0.0	43,42,0	0.02	4.94e-03	4.94e-03	218,227,227			1.00	0.04	0.96
2614	0.02	0.02	0.0	226,227,0	2.14e-04	6.44e-03	0.01	105,226,227	0.01	105	0.87	0.06	0.94
	1.02e-03	1.51e-03	0.0	228,225,0	2.14e-04	8.21e-04	8.21e-04	105,226,226			1.00	0.04	0.96
2615	0.02	0.02	0.0	227,230,0	0.02	2.22e-03	7.27e-03	218,225,228	0.11	218	0.87	0.06	0.94
	0.03	0.03	0.0	43,42,0	0.02	5.54e-03	5.54e-03	218,227,227			1.00	0.04	0.96
2616	0.03	0.03	0.0	231,230,0	1.42e-03	3.09e-03	0.01	219,226,227	0.03	219	0.87	0.06	0.94
	2.91e-03	1.70e-03	0.0	218,219,0	1.42e-03	4.69e-04	4.69e-04	219,226,226			1.00	0.04	0.96
2617	0.02	0.02	0.0	227,230,0	0.02	3.29e-03	7.27e-03	218,228,228	0.11	218	0.87	0.06	0.94
	0.03	0.03	0.0	47,44,0	0.02	5.70e-03	5.70e-03	218,44,44			1.00	0.04	0.96
2618	0.02	0.02	0.0	231,230,0	1.19e-03	6.44e-03	0.01	219,226,227	0.03	219	0.87	0.06	0.94
	1.71e-03	2.18e-03	0.0	218,107,0	1.19e-03	8.21e-04	8.21e-04	219,226,226			1.00	0.04	0.96
2619	0.03	0.03	0.0	231,230,0	5.68e-03	3.07e-03	0.01	219,225,230	0.06	219	0.87	0.06	0.94
	3.31e-03	2.41e-03	0.0	218,105,0	5.68e-03	4.76e-04	4.76e-04	219,43,43			1.00	0.04	0.96
2620	0.02	0.02	0.0	231,230,0	4.94e-03	6.01e-03	0.01	219,225,230	0.05	219	0.87	0.06	0.94
	1.87e-03	3.30e-03	0.0	230,107,0	4.94e-03	4.69e-04	4.69e-04	219,226,226			1.00	0.04	0.96
2621	0.03	0.03	0.0	231,230,0	0.01	3.07e-03	0.01	219,225,228	0.08	219	0.87	0.06	0.94
	5.75e-03	3.74e-03	0.0	43,9,0	0.01	1.30e-03	1.30e-03	219,46,46			1.00	0.04	0.96
2622	0.02	0.02	0.0	231,230,0	9.53e-03	6.01e-03	0.01	219,225,228	0.07	219	0.87	0.06	0.94
	2.76e-03	4.53e-03	0.0	47,105,0	9.53e-03	1.16e-03	1.16e-03	219,46,46			1.00	0.04	0.96
2623	0.02	0.02	0.0	231,230,0	0.01	2.75e-03	9.84e-03	219,225,228	0.09	219	0.87	0.06	0.94
	0.01	5.93e-03	0.0	43,42,0	0.01	2.48e-03	2.48e-03	219,42,42			1.00	0.04	0.96
2624	0.02	0.02	0.0	231,230,0	0.01	5.53e-03	0.01	219,225,228	0.09	219	0.87	0.06	0.94
	7.43e-03	6.66e-03	0.0	47,33,0	0.01	2.29e-03	2.29e-03	219,42,42			1.00	0.04	0.96
2625	0.02	0.02	0.0	231,230,0	0.01	2.41e-03	8.94e-03	218,225,228	0.09	218	0.87	0.06	0.94
	0.02	0.01	0.0	43,42,0	0.01	3.76e-03	3.76e-03	218,42,42			1.00	0.04	0.96
2626	0.01	0.02	0.0	225,230,0	0.01	4.83e-03	9.71e-03	218,225,228	0.09	218	0.87	0.06	0.94
	0.02	0.01	0.0	47,42,0	0.01	3.76e-03	3.76e-03	218,42,42			1.00	0.04	0.96
2627	0.02	0.02	0.0	231,230,0	0.02	2.23e-03	7.99e-03	218,225,228	0.10	218	0.87	0.06	0.94
	0.03	0.02	0.0	43,42,0	0.02	5.54e-03	5.54e-03	218,227,227			1.00	0.04	0.96
2628	0.01	0.02	0.0	231,230,0	0.02	3.95e-03	8.39e-03	218,228,228	0.10	218	0.87	0.06	0.94
	0.03	0.02	0.0	47,42,0	0.02	5.70e-03	5.70e-03	218,44,44			1.00	0.04	0.96
2629	0.02	0.02	0.0	226,231,0	7.73e-04	7.63e-03	0.01	105,226,227	0.02	105	0.87	0.06	0.94
	3.83e-03	3.42e-03	0.0	228,225,0	7.73e-04	1.70e-03	1.70e-03	105,226,226			1.00	0.04	0.96
2631	0.01	0.01	0.0	231,228,0	0.02	4.68e-03	7.02e-03	218,226,228	0.10	218	0.87	0.06	0.94
	0.02	0.03	0.0	47,44,0	0.02	5.70e-03	5.70e-03	218,44,44			1.00	0.04	0.96
2632	0.02	0.02	0.0	231,230,0	1.04e-03	0.01	0.01	219,226,227	0.02	219	0.87	0.06	0.94
	6.93e-03	5.19e-03	0.0	226,227,0	1.04e-03	1.70e-03	1.70e-03	219,226,226			1.00	0.04	0.96
2633	3.05e-03	8.07e-03	0.0	227,107,0	0.01	4.68e-03	6.03e-03	218,226,226	0.09	218	0.87	0.06	0.94
	3.31e-03	9.38e-03	0.0	47,35,0	0.01	1.11e-03	1.11e-03	218,227,227			1.00	0.04	0.96
2634	5.28e-03	9.74e-03	0.0	231,105,0	9.11e-04	0.01	0.01	219,226,226	0.02	219	0.87	0.06	0.94

	6.93e-03	5.19e-03	0.0	226,227,0	9.10e-04	1.10e-03	1.10e-03	219,226,226			1.00	0.04	0.96
2635	0.02	0.02	0.0	231,230,0	4.44e-03	9.04e-03	0.01	219,225,230	0.05	219	0.87	0.06	0.94
	1.67e-03	3.30e-03	0.0	230,107,0	4.44e-03	9.46e-04	9.46e-04	219,226,226			1.00	0.04	0.96
2636	5.73e-03	9.50e-03	0.0	231,230,0	3.97e-03	9.04e-03	0.01	219,225,228	0.05	219	0.87	0.06	0.94
	1.67e-03	2.09e-03	0.0	230,107,0	3.97e-03	9.46e-04	9.46e-04	219,226,226			1.00	0.04	0.96
2637	0.02	0.02	0.0	231,230,0	8.81e-03	9.04e-03	0.01	219,225,228	0.07	219	0.87	0.06	0.94
	1.67e-03	4.53e-03	0.0	230,105,0	8.81e-03	7.91e-04	7.91e-04	219,45,45			1.00	0.04	0.96
2638	5.73e-03	9.50e-03	0.0	231,230,0	8.15e-03	9.04e-03	0.01	219,225,228	0.07	219	0.87	0.06	0.94
	1.67e-03	2.27e-03	0.0	230,107,0	8.15e-03	3.57e-04	3.57e-04	219,229,229			1.00	0.04	0.96
2639	0.01	0.02	0.0	231,230,0	0.01	8.46e-03	0.01	219,225,228	0.08	219	0.87	0.06	0.94
	3.47e-03	6.66e-03	0.0	47,33,0	0.01	1.67e-03	1.67e-03	219,42,42			1.00	0.04	0.96
2640	3.03e-03	0.01	0.0	231,107,0	0.01	8.46e-03	0.01	219,225,228	0.08	219	0.87	0.06	0.94
	1.56e-03	3.10e-03	0.0	47,33,0	0.01	5.63e-04	5.63e-04	219,44,44			1.00	0.04	0.96
2641	9.51e-03	0.02	0.0	225,228,0	0.01	7.49e-03	9.71e-03	219,228,228	0.09	219	0.87	0.06	0.94
	8.98e-03	0.01	0.0	47,42,0	0.01	3.13e-03	3.13e-03	219,42,42			1.00	0.04	0.96
2642	3.47e-03	0.01	0.0	225,107,0	0.01	7.49e-03	9.58e-03	219,228,228	0.09	219	0.87	0.06	0.94
	3.27e-03	5.16e-03	0.0	47,42,0	0.01	1.00e-03	1.00e-03	219,42,42			1.00	0.04	0.96
2643	9.51e-03	0.02	0.0	225,228,0	0.02	6.28e-03	8.39e-03	218,228,228	0.09	218	0.87	0.06	0.94
	0.02	0.02	0.0	47,42,0	0.02	5.70e-03	5.70e-03	218,44,44			1.00	0.04	0.96
2644	3.47e-03	0.01	0.0	225,107,0	0.01	6.28e-03	8.35e-03	219,228,228	0.09	219	0.87	0.06	0.94
	3.31e-03	7.00e-03	0.0	47,33,0	0.01	1.11e-03	1.11e-03	219,227,227			1.00	0.04	0.96
2647	0.02	0.03	0.0	227,226,0	0.03	6.54e-03	0.01	219,231,230	0.13	219	0.87	0.06	0.94
	0.06	8.31e-03	0.0	99,46,0	0.03	4.19e-03	4.19e-03	219,45,45			1.00	0.04	0.96
2648	0.02	0.03	0.0	227,226,0	0.02	3.51e-03	8.15e-03	218,239,230	0.12	218	0.87	0.06	0.94
	0.06	0.02	0.0	99,46,0	0.02	4.42e-03	4.42e-03	218,47,47			1.00	0.04	0.96
2649	0.02	0.03	0.0	227,226,0	0.02	1.37e-03	6.65e-03	218,235,234	0.12	218	0.87	0.06	0.94
	0.03	0.02	0.0	43,42,0	0.02	4.69e-03	4.69e-03	218,228,228			1.00	0.04	0.96
2650	0.01	0.02	0.0	227,231,0	0.03	6.32e-03	9.09e-03	219,234,227	0.14	219	0.87	0.06	0.94
	0.08	0.0	0.0	99,0,0	0.03	2.46e-03	2.46e-03	219,45,45			1.00	0.04	0.96
2651	0.02	0.02	0.0	227,231,0	0.02	4.26e-03	9.09e-03	218,234,227	0.12	218	0.87	0.06	0.94
	0.08	8.55e-03	0.0	99,46,0	0.02	3.18e-03	3.18e-03	218,47,47			1.00	0.04	0.96
2652	0.02	0.02	0.0	227,231,0	0.02	2.14e-03	8.25e-03	218,235,227	0.12	218	0.87	0.06	0.94
	0.02	0.01	0.0	43,42,0	0.02	3.45e-03	3.45e-03	218,47,47			1.00	0.04	0.96
2653	0.03	0.05	0.0	218,219,0	0.03	7.09e-03	0.01	219,234,231	0.14	219	0.87	0.06	0.94
	0.11	0.0	0.0	99,0,0	0.03	1.24e-03	1.24e-03	219,45,45			1.00	0.04	0.96
2654	0.02	0.05	0.0	218,219,0	0.02	4.78e-03	0.01	218,234,231	0.12	218	0.87	0.06	0.94
	0.11	3.00e-03	0.0	99,46,0	0.02	1.81e-03	1.81e-03	218,45,45			1.00	0.04	0.96
2655	0.02	0.04	0.0	226,231,0	0.02	2.45e-03	0.01	218,235,227	0.12	218	0.87	0.06	0.94
	0.02	6.91e-03	0.0	99,42,0	0.02	2.03e-03	2.03e-03	218,47,47			1.00	0.04	0.96
2656	0.04	0.05	0.0	230,219,0	0.09	7.69e-03	0.01	100,234,231	0.23	100	0.87	0.06	0.94
	0.11	0.0	0.0	99,0,0	0.09	4.87e-04	4.87e-04	100,46,46			1.00	0.04	0.96
2658	0.03	0.05	0.0	230,105,0	0.09	5.23e-03	0.01	100,234,231	0.23	100	0.87	0.06	0.94
	0.11	0.0	0.0	99,0,0	0.09	7.56e-04	7.56e-04	100,46,46			1.00	0.04	0.96
2659	0.02	0.06	0.0	230,105,0	0.03	2.62e-03	0.01	100,234,227	0.13	100	0.87	0.06	0.94
	0.02	3.67e-03	0.0	99,33,0	0.03	8.62e-04	8.62e-04	100,46,46			1.00	0.04	0.96
2660	0.04	0.05	0.0	230,105,0	0.09	7.69e-03	0.01	100,234,227	0.23	100	0.87	0.06	0.94
	0.07	0.0	0.0	99,0,0	0.09	4.77e-04	4.77e-04	100,219,219			1.00	0.04	0.96
2661	0.03	0.05	0.0	230,105,0	0.09	5.23e-03	0.01	100,234,227	0.23	100	0.87	0.06	0.94
	0.07	0.0	0.0	99,0,0	0.09	2.72e-04	2.72e-04	100,226,226			1.00	0.04	0.96
2662	0.02	0.06	0.0	230,105,0	0.03	2.62e-03	0.01	100,234,235	0.13	100	0.87	0.06	0.94
	0.01	2.10e-03	0.0	99,105,0	0.03	2.95e-04	2.95e-04	100,226,226			1.00	0.04	0.96
2663	0.02	0.02	0.0	227,226,0	0.02	2.13e-03	6.85e-03	218,225,226	0.12	218	0.87	0.06	0.94
	0.03	0.03	0.0	47,42,0	0.02	4.98e-03	4.98e-03	218,228,228			1.00	0.04	0.96
2664	0.02	0.02	0.0	227,226,0	0.02	3.74e-03	7.37e-03	218,235,226	0.11	218	0.87	0.06	0.94
	0.02	0.03	0.0	47,44,0	0.02	4.98e-03	4.98e-03	218,228,228			1.00	0.04	0.96
2665	0.02	0.02	0.0	227,227,0	0.02	2.19e-03	8.06e-03	218,234,227	0.12	218	0.87	0.06	0.94
	0.01	0.02	0.0	47,42,0	0.02	3.45e-03	3.45e-03	218,47,47			1.00	0.04	0.96
2666	0.02	0.02	0.0	226,227,0	0.02	4.47e-03	8.80e-03	218,235,235	0.11	218	0.87	0.06	0.94
	7.26e-03	0.03	0.0	47,107,0	0.02	3.34e-03	3.34e-03	218,43,43			1.00	0.04	0.96
2667	0.02	0.04	0.0	226,231,0	0.02	2.38e-03	0.01	218,234,227	0.11	218	0.87	0.06	0.94
	6.01e-03	0.01	0.0	47,33,0	0.02	2.03e-03	2.03e-03	218,47,47			1.00	0.04	0.96
2668	0.02	0.03	0.0	226,231,0	0.02	4.95e-03	0.01	218,235,235	0.11	218	0.87	0.06	0.94
	0.0	0.04	0.0	0,107,0	0.02	1.88e-03	1.88e-03	218,43,43			0.0	0.0	0.0
2669	0.02	0.07	0.0	230,105,0	0.02	2.57e-03	0.01	107,233,239	0.12	107	0.87	0.06	0.94
	4.71e-03	8.98e-03	0.0	7,105,0	0.02	8.62e-04	8.62e-04	107,46,46			1.00	0.04	0.96
2670	0.02	0.07	0.0	230,105,0	0.05	5.13e-03	0.01	107,233,239	0.17	107	0.87	0.06	0.94
	0.0	0.04	0.0	0,107,0	0.05	7.83e-04	7.83e-04	107,42,42			0.0	0.0	0.0
2671	0.02	0.07	0.0	230,105,0	0.02	2.57e-03	0.01	107,233,239	0.12	107	0.87	0.06	0.94
	2.26e-03	7.44e-03	0.0	103,105,0	0.02	2.95e-04	2.95e-04	107,226,226			1.00	0.04	0.96
2672	6.85e-03	0.07	0.0	230,105,0	0.05	5.13e-03	0.01	107,233,239	0.17	107	0.87	0.06	0.94
	0.0	0.04	0.0	0,107,0	0.05	2.72e-04	2.72e-04	107,228,228			0.0	0.0	0.0
2673	0.01	0.01	0.0	227,230,0	0.02	5.93e-03	7.50e-03	218,227,226	0.11	218	0.87	0.06	0.94
	0.01	0.03	0.0	45,44,0	0.02	4.79e-03	4.79e-03	218,43,43			1.00	0.04	0.96
2674	6.30e-03	5.78e-03	0.0	227,226,0	0.01	5.93e-03	7.50e-03	218,227,226	0.09	218	0.87	0.06	0.94
	0.0	0.01	0.0	0,35,0	0.01	9.80e-04	9.80e-04	218,44,44			0.0	0.0	0.0
2675	0.01	0.01	0.0	227,227,0	0.02	6.98e-03	8.80e-03	218,235,235	0.11	218	0.87	0.06	0.94
	0.0	0.03	0.0	0,107,0	0.02	2.66e-03	2.66e-03	218,44,44			0.0	0.0	0.0

2676	6.30e-03	6.56e-03	0.0	227,231,0	0.01	6.98e-03	8.78e-03	218,235	0.09	218	0.87	0.06	0.94
	0.0	0.02	0.0	0,107,0	0.01	9.80e-04	9.80e-04	218,44,44			0.0	0.0	0.0
2677	0.01	0.03	0.0	226,231,0	0.02	7.70e-03	0.01	218,234,235	0.10	218	0.87	0.06	0.94
	0.0	0.04	0.0	0,107,0	0.02	1.35e-03	1.35e-03	218,44,44			0.0	0.0	0.0
2678	4.56e-03	0.02	0.0	230,107,0	0.01	7.70e-03	0.01	218,234,235	0.08	218	0.87	0.06	0.94
	0.0	0.03	0.0	0,107,0	0.01	8.44e-04	8.44e-04	218,226,226			0.0	0.0	0.0
2679	0.01	0.07	0.0	230,105,0	0.05	7.70e-03	0.01	107,234,239	0.17	107	0.87	0.06	0.94
	0.0	0.04	0.0	0,107,0	0.05	5.38e-04	5.38e-04	107,42,42			0.0	0.0	0.0
2680	1.53e-03	0.07	0.0	230,105,0	6.67e-03	7.70e-03	0.01	218,234,237	0.06	218	0.87	0.06	0.94
	0.0	0.04	0.0	0,107,0	6.67e-03	5.07e-04	5.07e-04	218,228,228			0.0	0.0	0.0
2681	0.0	0.07	0.0	0,105,0	0.05	7.69e-03	0.01	107,239,239	0.17	107	0.0	0.0	0.0
	0.0	0.04	0.0	0,107,0	0.05	4.21e-04	4.21e-04	107,213,213			0.0	0.0	0.0
2682	0.0	0.07	0.0	0,105,0	6.39e-03	7.69e-03	0.01	107,239,237	0.06	107	0.0	0.0	0.0
	0.0	0.04	0.0	0,107,0	6.39e-03	4.21e-04	4.21e-04	107,213,213			0.0	0.0	0.0
2777	0.01	0.01	0.0	229,232,0	1.32e-03	7.47e-03	9.99e-03	100,226,226	0.03	100	0.87	0.06	0.94
	3.66e-03	2.20e-03	0.0	227,226,0	1.32e-03	2.60e-03	2.60e-03	100,227,227			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.11	0.07	0.0	0.09	0.01	0.01	0.23

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
75	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.36	-47.7	187	0.27	35.9	186	0.18	2328.8	-3.890e+05	236

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1214	7.50e-03	0.01	0.0	229,232,0	0.03	5.86e-03	8.37e-03	231,228,228	0.14	231	0.87	0.06	0.94
	4.68e-03	3.61e-03	0.0	227,226,0	0.03	2.16e-03	2.16e-03	231,227,227			1.00	0.04	0.96
1215	0.04	0.04	0.0	225,228,0	0.02	0.02	0.02	231,225,228	0.10	231	0.87	0.06	0.94
	0.02	0.01	0.0	233,225,0	0.02	8.74e-03	8.74e-03	231,233,233			1.00	0.04	0.96
1231	0.02	0.02	0.0	225,228,0	0.02	0.02	0.02	231,225,225	0.10	231	0.87	0.06	0.94
	0.02	0.01	0.0	225,225,0	0.02	1.79e-03	1.79e-03	231,233,233			1.00	0.04	0.96
1341	0.03	0.05	0.0	240,237,0	0.01	6.55e-03	0.01	221,228,233	0.08	221	0.87	0.06	0.94
	0.03	1.48e-03	0.0	99,240,0	0.01	2.51e-03	2.51e-03	221,4,4			1.00	0.04	0.96
1342	0.01	0.02	0.0	232,237,0	0.03	7.34e-03	0.01	231,231,225	0.14	231	0.87	0.06	0.94
	9.86e-03	5.96e-03	0.0	229,232,0	0.03	2.16e-03	2.16e-03	231,227,227			1.00	0.04	0.96
1344	0.01	0.02	0.0	232,237,0	0.03	8.19e-03	0.01	231,231,225	0.12	231	0.87	0.06	0.94
	9.86e-03	5.96e-03	0.0	229,232,0	0.02	1.29e-03	1.29e-03	231,237,237			1.00	0.04	0.96
1346	0.01	0.02	0.0	228,225,0	0.02	8.19e-03	0.01	219,231,225	0.12	219	0.87	0.06	0.94
	9.03e-03	4.40e-03	0.0	225,228,0	0.02	1.29e-03	1.29e-03	219,237,237			1.00	0.04	0.96
1348	6.66e-03	0.03	0.0	230,107,0	0.02	7.53e-03	0.01	219,225,225	0.12	219	0.87	0.06	0.94
	9.65e-03	2.55e-03	0.0	99,232,0	0.02	8.82e-04	8.82e-04	219,229,229			1.00	0.04	0.96
1350	9.45e-03	0.03	0.0	230,231,0	0.02	6.54e-03	0.01	219,230,231	0.12	219	0.87	0.06	0.94
	0.01	1.52e-03	0.0	99,232,0	0.02	8.82e-04	8.82e-04	219,229,229			1.00	0.04	0.96
1352	0.02	0.04	0.0	230,239,0	0.01	6.55e-03	0.01	219,228,225	0.09	219	0.87	0.06	0.94
	0.02	1.48e-03	0.0	99,240,0	0.01	2.51e-03	2.51e-03	219,4,4			1.00	0.04	0.96
1356	0.03	0.05	0.0	240,237,0	0.01	6.05e-03	0.01	221,236,233	0.08	221	0.87	0.06	0.94
	0.03	9.85e-04	0.0	99,46,0	0.01	1.74e-03	1.74e-03	221,44,44			1.00	0.04	0.96
2630	0.02	0.02	0.0	225,228,0	0.03	5.86e-03	8.54e-03	231,228,228	0.14	231	0.87	0.06	0.94
	8.96e-03	4.91e-03	0.0	229,232,0	0.03	4.46e-03	4.46e-03	231,227,227			1.00	0.04	0.96
2645	0.02	0.03	0.0	225,228,0	0.03	5.78e-03	0.01	231,225,228	0.13	231	0.87	0.06	0.94
	8.96e-03	5.44e-03	0.0	229,232,0	0.03	5.49e-03	5.49e-03	231,226,226			1.00	0.04	0.96
2646	0.04	0.03	0.0	225,228,0	0.03	9.64e-03	0.02	231,225,228	0.12	231	0.87	0.06	0.94
	8.86e-03	5.44e-03	0.0	229,232,0	0.03	5.49e-03	5.49e-03	231,226,226			1.00	0.04	0.96
2690	0.03	0.05	0.0	236,237,0	0.02	6.55e-03	0.01	221,228,233	0.10	221	0.87	0.06	0.94
	0.04	5.25e-03	0.0	99,46,0	0.02	3.68e-03	3.68e-03	221,18,18			1.00	0.04	0.96
2691	0.02	0.03	0.0	228,225,0	0.03	7.34e-03	0.01	231,231,225	0.14	231	0.87	0.06	0.94
	0.02	8.45e-03	0.0	229,232,0	0.03	4.46e-03	4.46e-03	231,227,227			1.00	0.04	0.96
2692	0.03	0.04	0.0	236,233,0	0.02	2.25e-03	9.31e-03	221,233,233	0.11	221	0.87	0.06	0.94
	0.04	0.01	0.0	99,46,0	0.02	5.04e-03	5.04e-03	221,225,225			1.00	0.04	0.96
2693	0.02	0.03	0.0	225,225,0	0.03	6.12e-03	0.01	231,225,225	0.13	231	0.87	0.06	0.94
	0.02	9.44e-03	0.0	229,232,0	0.03	5.49e-03	5.49e-03	231,226,226			1.00	0.04	0.96
2694	0.03	0.04	0.0	236,233,0	0.02	1.17e-03	7.64e-03	221,228,233	0.12	221	0.87	0.06	0.94
	0.03	0.01	0.0	43,46,0	0.02	6.55e-03	6.55e-03	221,226,226			1.00	0.04	0.96
2695	0.04	0.03	0.0	225,228,0	0.03	9.64e-03	0.02	231,225,228	0.12	231	0.87	0.06	0.94
	0.02	9.44e-03	0.0	229,232,0	0.03	5.49e-03	5.49e-03	231,226,226			1.00	0.04	0.96
2696	0.02	0.03	0.0	228,225,0	0.03	8.19e-03	0.01	231,231,225	0.12	231	0.87	0.06	0.94
	0.02	8.45e-03	0.0	229,232,0	0.02	1.44e-03	1.44e-03	231,231,231			1.00	0.04	0.96

2697	0.02	0.03	0.0 228,225,0	0.02	6.12e-03	0.01231,225,225	0.12	231	0.87	0.06	0.94
	0.02	9.44e-03	0.0 229,232,0	0.02	1.67e-03	1.67e-03231,233,233			1.00	0.04	0.96
2698	0.03	0.03	0.0 228,225,0	0.02	4.55e-03	0.01231,225,225	0.11	231	0.87	0.06	0.94
	0.02	9.44e-03	0.0 229,232,0	0.02	1.88e-03	1.88e-03231,233,233			1.00	0.04	0.96
2699	0.02	0.03	0.0 228,225,0	0.02	8.19e-03	0.01219,231,225	0.12	219	0.87	0.06	0.94
	0.02	6.67e-03	0.0 229,232,0	0.02	1.44e-03	1.44e-03219,231,231			1.00	0.04	0.96
2700	0.02	0.03	0.0 228,225,0	0.02	5.67e-03	0.01219,225,225	0.11	219	0.87	0.06	0.94
	0.02	6.73e-03	0.0 229,232,0	0.02	1.61e-03	1.61e-03219,225,225			1.00	0.04	0.96
2701	0.02	0.03	0.0 228,225,0	0.02	2.85e-03	0.01219,225,225	0.11	219	0.87	0.06	0.94
	0.01	6.73e-03	0.0 229,232,0	0.02	1.61e-03	1.61e-03219,225,225			1.00	0.04	0.96
2702	0.01	0.03	0.0 228,107,0	0.02	7.53e-03	0.01219,225,225	0.12	219	0.87	0.06	0.94
	0.02	3.48e-03	0.0 99,232,0	0.02	1.29e-03	1.29e-03219,225,225			1.00	0.04	0.96
2703	0.02	0.03	0.0 228,231,0	0.02	5.17e-03	0.01219,227,225	0.11	219	0.87	0.06	0.94
	0.02	4.14e-03	0.0 99,232,0	0.02	1.60e-03	1.60e-03 219,42,42			1.00	0.04	0.96
2704	0.02	0.03	0.0 228,225,0	0.02	2.22e-03	9.77e-03219,226,225	0.11	219	0.87	0.06	0.94
	0.01	4.18e-03	0.0 99,226,0	0.02	1.85e-03	1.85e-03 219,42,42			1.00	0.04	0.96
2705	0.01	0.03	0.0 230,231,0	0.02	6.54e-03	0.01219,230,231	0.12	219	0.87	0.06	0.94
	0.03	2.03e-03	0.0 99,46,0	0.02	2.04e-03	2.04e-03219,229,229			1.00	0.04	0.96
2706	0.02	0.03	0.0 230,231,0	0.02	4.41e-03	0.01219,226,231	0.11	219	0.87	0.06	0.94
	0.03	5.12e-03	0.0 99,46,0	0.02	2.66e-03	2.66e-03219,225,225			1.00	0.04	0.96
2707	0.02	0.03	0.0 230,225,0	0.02	1.81e-03	9.17e-03219,227,225	0.10	219	0.87	0.06	0.94
	0.02	7.24e-03	0.0 3,46,0	0.02	3.07e-03	3.07e-03219,232,232			1.00	0.04	0.96
2708	0.02	0.04	0.0 228,239,0	0.01	6.55e-03	0.01219,228,225	0.09	219	0.87	0.06	0.94
	0.04	4.73e-03	0.0 99,46,0	0.01	3.68e-03	3.68e-03 219,18,18			1.00	0.04	0.96
2709	0.02	0.04	0.0 228,225,0	0.01	3.46e-03	9.17e-03219,226,231	0.08	219	0.87	0.06	0.94
	0.04	9.83e-03	0.0 99,46,0	0.01	5.04e-03	5.04e-03219,225,225			1.00	0.04	0.96
2710	0.02	0.04	0.0 228,225,0	0.01	1.30e-03	7.82e-03221,227,231	0.08	221	0.87	0.06	0.94
	0.03	0.01	0.0 229,46,0	0.01	6.34e-03	6.34e-03221,228,228			1.00	0.04	0.96
2711	0.05	0.04	0.0 225,228,0	0.02	9.64e-03	0.02231,225,228	0.11	231	0.87	0.06	0.94
	0.01	5.95e-03	0.0 233,233,0	0.02	8.82e-03	8.82e-03231,233,233			1.00	0.04	0.96
2712	0.05	0.04	0.0 225,228,0	0.02	0.01	0.02231,225,228	0.11	231	0.87	0.06	0.94
	0.02	0.01	0.0 233,233,0	0.02	8.82e-03	8.82e-03231,233,233			1.00	0.04	0.96
2714	0.03	0.05	0.0 236,237,0	0.02	6.05e-03	0.01221,236,233	0.10	221	0.87	0.06	0.94
	0.04	5.25e-03	0.0 99,46,0	0.02	2.98e-03	2.98e-03 221,44,44			1.00	0.04	0.96
2715	0.03	0.04	0.0 236,233,0	0.02	2.25e-03	9.31e-03221,233,233	0.11	221	0.87	0.06	0.94
	0.04	0.01	0.0 99,46,0	0.02	5.00e-03	5.00e-03221,227,227			1.00	0.04	0.96
2716	0.03	0.04	0.0 236,233,0	0.02	1.05e-03	7.64e-03221,228,233	0.12	221	0.87	0.06	0.94
	0.03	0.01	0.0 43,46,0	0.02	6.55e-03	6.55e-03221,226,226			1.00	0.04	0.96
2717	0.02	0.03	0.0 236,233,0	0.02	1.97e-03	7.20e-03221,228,233	0.12	221	0.87	0.06	0.94
	0.02	0.02	0.0 43,42,0	0.02	6.71e-03	6.71e-03221,226,226			1.00	0.04	0.96
2718	0.05	0.04	0.0 225,228,0	0.02	9.64e-03	0.02231,225,228	0.11	231	0.87	0.06	0.94
	0.02	9.91e-03	0.0 233,233,0	0.02	8.82e-03	8.82e-03231,233,233			1.00	0.04	0.96
2719	0.02	0.03	0.0 236,233,0	0.02	2.65e-03	7.17e-03221,228,233	0.11	221	0.87	0.06	0.94
	0.02	0.02	0.0 43,42,0	0.02	6.71e-03	6.71e-03221,226,226			1.00	0.04	0.96
2720	0.05	0.04	0.0 225,228,0	0.02	0.01	0.02231,225,228	0.11	231	0.87	0.06	0.94
	0.02	0.01	0.0 233,233,0	0.02	8.82e-03	8.82e-03231,233,233			1.00	0.04	0.96
2721	0.03	0.03	0.0 228,225,0	0.02	3.48e-03	0.01231,225,225	0.11	231	0.87	0.06	0.94
	0.02	9.91e-03	0.0 233,233,0	0.02	2.66e-03	2.66e-03231,233,233			1.00	0.04	0.96
2722	0.02	0.03	0.0 228,225,0	0.02	6.47e-03	0.01231,225,225	0.11	231	0.87	0.06	0.94
	0.02	0.01	0.0 233,233,0	0.02	3.57e-03	3.57e-03231,225,225			1.00	0.04	0.96
2723	0.02	0.03	0.0 228,225,0	0.02	3.48e-03	0.01219,225,225	0.10	219	0.87	0.06	0.94
	0.01	4.77e-03	0.0 233,233,0	0.02	2.66e-03	2.66e-03219,233,233			1.00	0.04	0.96
2724	0.02	0.03	0.0 228,225,0	0.02	5.84e-03	0.01231,225,225	0.10	231	0.87	0.06	0.94
	0.01	6.64e-03	0.0 233,233,0	0.02	3.57e-03	3.57e-03231,225,225			1.00	0.04	0.96
2725	0.02	0.03	0.0 228,225,0	0.02	3.04e-03	9.80e-03219,225,225	0.10	219	0.87	0.06	0.94
	9.54e-03	4.62e-03	0.0 3,230,0	0.02	1.85e-03	1.85e-03 219,42,42			1.00	0.04	0.96
2726	0.01	0.02	0.0 228,227,0	0.02	4.85e-03	9.80e-03219,230,225	0.10	219	0.87	0.06	0.94
	5.75e-03	4.65e-03	0.0 231,230,0	0.02	1.90e-03	1.90e-03219,233,233			1.00	0.04	0.96
2727	0.02	0.03	0.0 228,225,0	0.02	2.45e-03	8.75e-03219,228,227	0.10	219	0.87	0.06	0.94
	0.01	7.83e-03	0.0 43,42,0	0.02	3.26e-03	3.26e-03219,226,226			1.00	0.04	0.96
2728	0.01	0.02	0.0 226,227,0	0.01	4.18e-03	8.97e-03219,230,227	0.09	219	0.87	0.06	0.94
	9.89e-03	7.83e-03	0.0 47,42,0	0.01	3.26e-03	3.26e-03219,226,226			1.00	0.04	0.96
2729	0.02	0.03	0.0 228,225,0	0.01	2.10e-03	7.18e-03221,228,231	0.08	221	0.87	0.06	0.94
	0.02	0.01	0.0 43,42,0	0.01	6.60e-03	6.60e-03221,232,232			1.00	0.04	0.96
2730	0.01	0.03	0.0 228,225,0	0.01	3.32e-03	7.25e-03221,230,231	0.08	221	0.87	0.06	0.94
	0.02	0.01	0.0 43,42,0	0.01	6.60e-03	6.60e-03221,232,232			1.00	0.04	0.96
2733	0.02	0.03	0.0 236,233,0	0.02	1.87e-03	7.20e-03221,236,233	0.12	221	0.87	0.06	0.94
	0.02	0.02	0.0 43,42,0	0.02	6.71e-03	6.71e-03221,226,226			1.00	0.04	0.96
2734	0.02	0.03	0.0 236,233,0	0.02	2.65e-03	7.17e-03221,228,233	0.11	221	0.87	0.06	0.94
	0.02	0.02	0.0 231,42,0	0.02	6.71e-03	6.71e-03221,226,226			1.00	0.04	0.96
2735	0.01	0.02	0.0 236,233,0	0.02	4.50e-03	6.89e-03221,225,233	0.11	221	0.87	0.06	0.94
	0.01	0.01	0.0 47,42,0	0.02	6.06e-03	6.06e-03221,226,226			1.00	0.04	0.96
2736	0.04	0.04	0.0 225,228,0	0.02	0.02	0.02231,225,228	0.11	231	0.87	0.06	0.94
	0.02	0.01	0.0 233,233,0	0.02	8.74e-03	8.74e-03231,233,233			1.00	0.04	0.96
2737	1.73e-03	0.02	0.0 240,107,0	0.02	4.50e-03	6.56e-03221,225,225	0.10	221	0.87	0.06	0.94
	5.21e-03	3.09e-03	0.0 43,230,0	0.02	1.74e-03	1.74e-03221,226,226			1.00	0.04	0.96
2738	2.27e-03	0.02	0.0 225,107,0	0.02	0.02	0.02231,225,225	0.11	231	0.87	0.06	0.94

	0.01	7.21e-03	0.0	233,226,0	0.02	1.93e-03	1.93e-03	231,231,231			1.00	0.04	0.96
2739	0.02	0.02	0.0	228,225,0	0.02	0.01	0.02	231,225,225	0.11	231	0.87	0.06	0.94
	0.02	0.01	0.0	233,233,0	0.02	3.57e-03	3.57e-03	231,225,225			1.00	0.04	0.96
2740	1.65e-03	0.02	0.0	228,105,0	0.02	0.01	0.02	231,225,225	0.11	231	0.87	0.06	0.94
	0.01	6.87e-03	0.0	233,236,0	0.02	2.76e-03	2.76e-03	231,233,233			1.00	0.04	0.96
2741	0.01	0.02	0.0	228,105,0	0.02	8.35e-03	0.01	231,225,225	0.10	231	0.87	0.06	0.94
	0.01	6.64e-03	0.0	233,233,0	0.02	3.57e-03	3.57e-03	231,225,225			1.00	0.04	0.96
2742	0.0	0.02	0.0	0,105,0	0.02	8.35e-03	0.01	231,225,225	0.10	231	0.0	0.0	0.0
	8.74e-03	4.13e-03	0.0	233,236,0	0.02	2.76e-03	2.76e-03	231,233,233			1.00	0.04	0.96
2743	7.75e-03	0.02	0.0	228,107,0	0.02	7.01e-03	9.75e-03	219,230,231	0.09	219	0.87	0.06	0.94
	5.96e-03	4.65e-03	0.0	231,230,0	0.02	1.90e-03	1.90e-03	219,233,233			1.00	0.04	0.96
2744	0.0	0.02	0.0	0,107,0	0.01	7.01e-03	9.16e-03	219,230,225	0.09	219	0.0	0.0	0.0
	5.96e-03	3.54e-03	0.0	231,230,0	0.01	1.44e-03	1.44e-03	219,233,233			1.00	0.04	0.96
2745	6.47e-03	0.02	0.0	226,107,0	0.01	6.69e-03	8.97e-03	219,226,227	0.09	219	0.87	0.06	0.94
	7.02e-03	6.78e-03	0.0	231,42,0	0.01	2.61e-03	2.61e-03	219,226,226			1.00	0.04	0.96
2746	0.0	0.02	0.0	0,107,0	0.01	6.69e-03	8.74e-03	219,226,227	0.09	219	0.0	0.0	0.0
	7.02e-03	3.54e-03	0.0	231,230,0	0.01	7.81e-04	7.81e-04	219,233,233			1.00	0.04	0.96
2747	6.15e-03	0.02	0.0	230,107,0	0.01	5.30e-03	7.25e-03	221,231,231	0.08	221	0.87	0.06	0.94
	0.01	0.01	0.0	47,42,0	0.01	6.06e-03	6.06e-03	221,226,226			1.00	0.04	0.96
2748	0.0	0.02	0.0	0,107,0	9.97e-03	5.30e-03	6.91e-03	221,231,231	0.08	221	0.0	0.0	0.0
	7.02e-03	3.37e-03	0.0	231,230,0	9.97e-03	1.74e-03	1.74e-03	221,226,226			1.00	0.04	0.96
2751	0.01	0.02	0.0	236,233,0	0.02	4.40e-03	6.89e-03	221,225,233	0.11	221	0.87	0.06	0.94
	9.90e-03	0.01	0.0	47,42,0	0.02	4.87e-03	4.87e-03	221,226,226			1.00	0.04	0.96
2752	1.73e-03	0.02	0.0	240,107,0	0.02	4.40e-03	6.56e-03	221,225,225	0.10	221	0.87	0.06	0.94
	4.19e-03	3.09e-03	0.0	231,230,0	0.02	1.11e-03	1.11e-03	221,228,228			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.05	0.05	0.0	0.03	0.02	0.02	0.14

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
76	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.43	-4.3	201	0.19	1.8	203	0.27	2513.3	-2.267e+04	233

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
542	0.06	0.07	0.0	237,240,0	7.97e-03	0.03	0.04	236,221,218	0.07	236	0.87	0.06	0.94
	0.13	0.09	0.0	44,45,0	7.91e-03	0.09	0.09	236,45,45			1.00	0.04	0.96
1207	0.06	0.07	0.0	237,240,0	7.97e-03	0.03	0.04	236,221,218	0.07	236	0.87	0.06	0.94
	0.13	0.09	0.0	44,45,0	7.91e-03	0.09	0.09	236,45,45			1.00	0.04	0.96
1208	0.03	0.04	0.0	231,236,0	5.51e-03	0.01	0.02	236,218,218	0.06	236	0.87	0.06	0.94
	0.04	0.03	0.0	45,46,0	5.50e-03	0.03	0.03	236,45,45			1.00	0.04	0.96
1209	0.02	0.03	0.0	239,236,0	3.81e-03	6.29e-03	0.01	236,45,44	0.05	236	0.87	0.06	0.94
	0.03	0.02	0.0	45,42,0	3.81e-03	0.02	0.02	236,44,44			1.00	0.04	0.96
1213	0.06	0.07	0.0	237,240,0	7.97e-03	0.03	0.04	236,221,218	0.07	236	0.87	0.06	0.94
	0.13	0.09	0.0	44,45,0	7.91e-03	0.09	0.09	236,45,45			1.00	0.04	0.96
1226	2.47e-03	0.02	0.0	234,100,0	2.68e-03	3.98e-03	6.70e-03	236,45,44	0.04	236	0.87	0.06	0.94
	0.03	0.02	0.0	44,44,0	2.68e-03	0.02	0.02	236,44,44			1.00	0.04	0.96
1227	0.0	0.02	0.0	0,100,0	1.93e-03	2.55e-03	4.75e-03	236,46,100	0.03	236	0.0	0.0	0.0
	0.03	0.02	0.0	44,44,0	1.93e-03	0.02	0.02	236,44,44			1.00	0.04	0.96
1242	0.0	0.02	0.0	0,100,0	1.32e-03	4.58e-03	7.11e-03	235,18,18	0.03	235	0.0	0.0	0.0
	0.03	0.02	0.0	44,44,0	1.32e-03	0.02	0.02	235,44,44			1.00	0.04	0.96
1243	0.0	0.02	0.0	0,100,0	1.32e-03	4.58e-03	7.11e-03	235,18,18	0.03	235	0.0	0.0	0.0
	2.79e-03	4.82e-03	0.0	45,44,0	1.32e-03	1.74e-03	1.74e-03	235,43,43			1.00	0.04	0.96
1317	0.06	0.07	0.0	237,240,0	7.97e-03	0.03	0.04	236,221,218	0.07	236	0.87	0.06	0.94
	0.13	0.09	0.0	44,45,0	7.91e-03	0.09	0.09	236,45,45			1.00	0.04	0.96
1335	0.03	0.04	0.0	231,236,0	5.51e-03	0.01	0.02	236,218,218	0.06	236	0.87	0.06	0.94
	0.04	0.03	0.0	45,46,0	5.50e-03	0.03	0.03	236,45,45			1.00	0.04	0.96
1336	0.02	0.03	0.0	239,236,0	3.81e-03	6.29e-03	0.01	236,45,44	0.05	236	0.87	0.06	0.94
	0.03	0.02	0.0	45,42,0	3.81e-03	0.02	0.02	236,44,44			1.00	0.04	0.96
1353	2.47e-03	0.02	0.0	234,100,0	2.68e-03	3.98e-03	6.70e-03	236,45,44	0.04	236	0.87	0.06	0.94
	0.03	0.02	0.0	44,44,0	2.68e-03	0.02	0.02	236,44,44			1.00	0.04	0.96
1354	0.0	0.02	0.0	0,100,0	1.93e-03	2.55e-03	4.75e-03	236,46,100	0.03	236	0.0	0.0	0.0
	0.03	0.02	0.0	44,44,0	1.93e-03	0.02	0.02	236,44,44			1.00	0.04	0.96
2612	0.0	0.02	0.0	0,100,0	1.32e-03	4.58e-03	7.11e-03	235,18,18	0.03	235	0.0	0.0	0.0
	0.03	0.02	0.0	44,44,0	1.32e-03	0.02	0.02	235,44,44			1.00	0.04	0.96
2613	0.0	0.02	0.0	0,100,0	1.32e-03	4.58e-03	7.11e-03	235,18,18	0.03	235	0.0	0.0	0.0
	2.79e-03	4.82e-03	0.0	45,44,0	1.32e-03	1.74e-03	1.74e-03	235,43,43			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.13	0.09	0.0	7.97e-03	0.09	0.09	0.07

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
77	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.47	-23.0	180	0.34	17.0	180	0.09	-31.5	-2.478e+05	215

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
445	0.04	0.03	0.0	209,212,0	0.04	0.02	0.02	209,68,68	0.15	209	0.87	0.06	0.94
	0.01	0.01	0.0	226,227,0	0.04	9.60e-04	9.60e-04	209,227,227			1.00	0.04	0.96
446	0.03	0.03	0.0	212,209,0	0.04	0.02	0.03	209,68,67	0.15	209	0.87	0.06	0.94
	0.03	0.02	0.0	232,229,0	0.04	4.23e-03	4.23e-03	209,229,229			1.00	0.04	0.96
1429	0.03	0.03	0.0	209,212,0	7.21e-03	0.02	0.03	99,67,71	0.07	99	0.87	0.06	0.94
	0.05	0.03	0.0	214,215,0	7.21e-03	6.51e-03	6.51e-03	99,215,215			1.00	0.04	0.96
1433	0.04	0.03	0.0	209,212,0	0.03	0.02	0.03	209,68,69	0.13	209	0.87	0.06	0.94
	0.01	0.01	0.0	226,229,0	0.03	8.28e-04	8.28e-04	209,69,69			1.00	0.04	0.96
1604	0.03	0.03	0.0	209,212,0	7.21e-03	0.02	0.03	99,67,71	0.07	99	0.87	0.06	0.94
	0.05	0.03	0.0	214,215,0	7.21e-03	6.51e-03	6.51e-03	99,215,215			1.00	0.04	0.96
1613	0.03	0.02	0.0	215,214,0	1.02e-04	0.02	0.03	69,68,69	6.14e-03	212	0.87	0.06	0.94
	9.86e-03	7.30e-03	0.0	226,227,0	6.39e-05	8.28e-04	8.28e-04	212,69,69			1.00	0.04	0.96
2344	0.05	0.04	0.0	66,212,0	0.01	0.02	0.03	209,67,71	0.08	209	0.87	0.06	0.94
	0.05	0.03	0.0	214,215,0	0.01	6.51e-03	6.51e-03	209,215,215			1.00	0.04	0.96
2575	0.05	0.03	0.0	68,212,0	0.04	0.02	0.02	209,68,68	0.15	209	0.87	0.06	0.94
	0.01	0.01	0.0	226,227,0	0.04	9.60e-04	9.60e-04	209,227,227			1.00	0.04	0.96
2576	0.07	0.04	0.0	68,69,0	0.04	0.02	0.02	209,66,66	0.15	209	0.87	0.06	0.94
	0.01	0.01	0.0	212,209,0	0.04	8.30e-04	8.30e-04	209,234,234			1.00	0.04	0.96
2577	0.05	0.04	0.0	68,67,0	0.04	0.02	0.03	209,68,67	0.15	209	0.87	0.06	0.94
	0.03	0.02	0.0	232,229,0	0.04	4.23e-03	4.23e-03	209,229,229			1.00	0.04	0.96
2578	0.07	0.05	0.0	68,71,0	0.04	0.02	0.03	209,68,67	0.15	209	0.87	0.06	0.94
	0.01	0.01	0.0	212,209,0	0.04	7.91e-04	7.91e-04	209,240,240			1.00	0.04	0.96
2579	0.07	0.05	0.0	68,69,0	0.03	7.42e-03	0.01	209,66,236	0.13	209	0.87	0.06	0.94
	6.97e-03	5.83e-03	0.0	233,236,0	0.03	1.51e-03	1.51e-03	209,236,236			1.00	0.04	0.96
2580	0.07	0.05	0.0	66,71,0	0.03	7.34e-03	0.03	209,68,71	0.13	209	0.87	0.06	0.94
	6.97e-03	5.83e-03	0.0	233,236,0	0.03	1.55e-03	1.55e-03	209,238,238			1.00	0.04	0.96
2581	0.07	0.05	0.0	68,69,0	0.02	8.83e-03	0.01	209,69,233	0.12	209	0.87	0.06	0.94
	0.02	0.02	0.0	228,225,0	0.02	1.51e-03	1.51e-03	209,236,236			1.00	0.04	0.96
2582	0.07	0.05	0.0	66,71,0	0.02	8.94e-03	0.03	209,69,71	0.12	209	0.87	0.06	0.94
	0.04	0.04	0.0	209,212,0	0.02	1.55e-03	1.55e-03	209,238,238			1.00	0.04	0.96
2583	0.07	0.04	0.0	68,69,0	0.01	0.02	0.02	209,68,68	0.09	209	0.87	0.06	0.94
	0.03	0.02	0.0	228,225,0	0.01	8.82e-04	8.82e-04	209,69,69			1.00	0.04	0.96
2584	0.07	0.04	0.0	66,71,0	0.01	0.02	0.03	209,66,71	0.09	209	0.87	0.06	0.94
	0.04	0.04	0.0	209,212,0	0.01	7.27e-04	7.27e-04	209,69,69			1.00	0.04	0.96
2585	0.05	0.03	0.0	68,69,0	9.52e-03	0.02	0.02	212,68,68	0.07	212	0.87	0.06	0.94
	0.03	0.02	0.0	228,225,0	9.52e-03	1.29e-03	1.29e-03	212,68,68			1.00	0.04	0.96
2586	0.05	0.03	0.0	66,71,0	9.52e-03	0.02	0.02	212,68,68	0.07	212	0.87	0.06	0.94
	0.03	0.03	0.0	209,212,0	9.52e-03	3.25e-03	3.25e-03	212,234,234			1.00	0.04	0.96
2587	0.02	0.01	0.0	68,69,0	9.52e-03	0.02	0.02	212,68,68	0.07	212	0.87	0.06	0.94
	0.03	0.02	0.0	214,211,0	9.52e-03	1.29e-03	1.29e-03	212,68,68			1.00	0.04	0.96
2588	0.03	0.01	0.0	66,69,0	9.52e-03	0.02	0.02	212,68,68	0.07	212	0.87	0.06	0.94
	0.03	0.02	0.0	226,211,0	9.52e-03	3.25e-03	3.25e-03	212,234,234			1.00	0.04	0.96
2803	0.07	0.05	0.0	66,71,0	0.01	0.02	0.03	209,69,71	0.08	209	0.87	0.06	0.94
	0.01	0.01	0.0	212,209,0	0.01	9.71e-04	9.71e-04	209,210,210			1.00	0.04	0.96
2804	0.07	0.06	0.0	66,215,0	0.01	7.34e-03	0.03	209,68,71	0.08	209	0.87	0.06	0.94
	9.84e-03	7.29e-03	0.0	212,209,0	0.01	1.55e-03	1.55e-03	209,238,238			1.00	0.04	0.96
2805	0.07	0.06	0.0	66,212,0	0.02	9.54e-03	0.03	212,68,71	0.10	212	0.87	0.06	0.94
	0.05	0.04	0.0	209,212,0	0.02	3.83e-03	3.83e-03	212,234,234			1.00	0.04	0.96
2806	0.05	0.03	0.0	68,69,0	0.03	0.02	0.03	209,68,69	0.13	209	0.87	0.06	0.94
	0.01	0.01	0.0	212,209,0	0.03	8.28e-04	8.28e-04	209,69,69			1.00	0.04	0.96
2807	0.07	0.05	0.0	68,69,0	0.02	0.02	0.03	209,70,69	0.12	209	0.87	0.06	0.94
	0.01	0.01	0.0	212,209,0	0.02	8.30e-04	8.30e-04	209,234,234			1.00	0.04	0.96
2808	0.07	0.05	0.0	68,69,0	0.02	7.59e-03	0.03	209,69,69	0.11	209	0.87	0.06	0.94
	7.85e-03	5.53e-03	0.0	209,212,0	0.02	1.51e-03	1.51e-03	209,236,236			1.00	0.04	0.96
2815	0.07	0.06	0.0	214,212,0	0.02	0.02	0.03	212,69,71	0.10	212	0.87	0.06	0.94
	0.10	0.08	0.0	209,212,0	0.02	3.83e-03	3.83e-03	212,234,234			1.00	0.04	0.96
2816	0.06	0.05	0.0	209,212,0	7.62e-03	0.02	0.03	212,68,71	0.07	212	0.87	0.06	0.94
	0.10	0.08	0.0	209,212,0	7.61e-03	4.48e-03	4.48e-03	212,226,226			1.00	0.04	0.96
2817	0.07	0.05	0.0	68,69,0	0.02	9.13e-03	0.03	209,67,69	0.10	209	0.87	0.06	0.94

	0.05	0.04	0.0	212,209,0	0.02	4.04e-03	4.04e-03	209,233,233			1.00	0.04	0.96
2818	0.06	0.05	0.0	68,214,0	0.01	0.02	0.03	209,69,69	0.08	209	0.87	0.06	0.94
	0.05	0.04	0.0	212,225,0	0.01	4.56e-03	4.56e-03	209,233,233			1.00	0.04	0.96
2825	0.04	0.03	0.0	209,212,0	3.01e-03	0.02	0.02	212,68,68	0.04	212	0.87	0.06	0.94
	0.05	0.03	0.0	210,211,0	3.01e-03	4.48e-03	4.48e-03	212,226,226			1.00	0.04	0.96
2827	0.04	0.03	0.0	68,214,0	7.55e-03	0.02	0.03	212,68,69	0.07	212	0.87	0.06	0.94
	0.05	0.04	0.0	228,225,0	7.55e-03	4.56e-03	4.56e-03	212,233,233			1.00	0.04	0.96
2829	0.02	0.01	0.0	68,69,0	7.55e-03	0.02	0.03	212,68,69	0.07	212	0.87	0.06	0.94
	0.03	0.02	0.0	214,215,0	7.55e-03	1.59e-03	1.59e-03	212,68,68			1.00	0.04	0.96
2964	0.05	0.04	0.0	66,212,0	8.26e-03	0.02	0.03	212,67,71	0.07	212	0.87	0.06	0.94
	0.05	0.03	0.0	214,215,0	8.26e-03	6.51e-03	6.51e-03	212,215,215			1.00	0.04	0.96
2967	0.07	0.05	0.0	66,71,0	8.26e-03	0.02	0.03	212,69,71	0.07	212	0.87	0.06	0.94
	0.01	5.75e-03	0.0	215,214,0	8.26e-03	9.71e-04	9.71e-04	212,210,210			1.00	0.04	0.96
2969	0.07	0.06	0.0	66,215,0	5.99e-03	7.22e-03	0.03	212,69,71	0.06	212	0.87	0.06	0.94
	9.84e-03	7.29e-03	0.0	212,209,0	5.99e-03	1.16e-03	1.16e-03	212,234,234			1.00	0.04	0.96
2983	0.05	0.03	0.0	68,69,0	4.81e-04	0.02	0.03	225,68,69	0.02	225	0.87	0.06	0.94
	9.86e-03	7.30e-03	0.0	226,227,0	4.73e-04	8.28e-04	8.28e-04	225,69,69			1.00	0.04	0.96
2984	0.07	0.05	0.0	68,69,0	3.10e-03	0.02	0.03	209,70,69	0.04	209	0.87	0.06	0.94
	6.46e-03	5.29e-03	0.0	212,209,0	3.10e-03	5.73e-04	5.73e-04	209,236,236			1.00	0.04	0.96
2985	0.07	0.05	0.0	68,69,0	4.83e-03	7.59e-03	0.03	209,69,69	0.05	209	0.87	0.06	0.94
	7.85e-03	5.53e-03	0.0	209,212,0	4.83e-03	1.21e-03	1.21e-03	209,236,236			1.00	0.04	0.96
2986	0.07	0.06	0.0	66,212,0	0.02	9.54e-03	0.03	212,68,71	0.10	212	0.87	0.06	0.94
	0.05	0.04	0.0	209,212,0	0.02	3.83e-03	3.83e-03	212,234,234			1.00	0.04	0.96
2988	0.07	0.06	0.0	214,212,0	0.02	0.02	0.03	212,69,71	0.10	212	0.87	0.06	0.94
	0.10	0.08	0.0	209,212,0	0.02	3.83e-03	3.83e-03	212,234,234			1.00	0.04	0.96
2996	0.07	0.05	0.0	68,69,0	0.01	9.13e-03	0.03	209,67,69	0.08	209	0.87	0.06	0.94
	0.05	0.04	0.0	212,209,0	0.01	4.04e-03	4.04e-03	209,233,233			1.00	0.04	0.96
2997	0.06	0.05	0.0	68,214,0	0.01	0.02	0.03	209,69,69	0.08	209	0.87	0.06	0.94
	0.05	0.04	0.0	212,225,0	0.01	4.56e-03	4.56e-03	209,233,233			1.00	0.04	0.96
2998	0.06	0.05	0.0	209,212,0	7.62e-03	0.02	0.03	212,69,71	0.07	212	0.87	0.06	0.94
	0.10	0.08	0.0	209,212,0	7.61e-03	4.48e-03	4.48e-03	212,226,226			1.00	0.04	0.96
3000	0.04	0.03	0.0	209,212,0	1.51e-03	0.02	0.02	212,69,69	0.03	212	0.87	0.06	0.94
	0.05	0.03	0.0	210,211,0	1.51e-03	4.48e-03	4.48e-03	212,226,226			1.00	0.04	0.96
3008	0.04	0.03	0.0	68,214,0	5.65e-03	0.02	0.03	212,69,69	0.06	212	0.87	0.06	0.94
	0.05	0.04	0.0	228,225,0	5.65e-03	4.56e-03	4.56e-03	212,233,233			1.00	0.04	0.96
3009	0.01	0.01	0.0	68,69,0	2.69e-03	0.02	0.03	212,69,69	0.04	212	0.87	0.06	0.94
	0.03	0.02	0.0	214,215,0	2.69e-03	1.59e-03	1.59e-03	212,68,68			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.10	0.08	0.0	0.04	0.02	0.03	0.15

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
78	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.59	-80.9	193	0.16	-22.1	196	0.19	-758.8	-9.581e+05	225

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
448	0.02	0.04	0.0	211,210,0	7.96e-04	1.42e-03	5.63e-03	225,211,210	0.02	225	0.87	0.06	0.94
	2.88e-03	0.01	0.0	45,44,0	7.95e-04	4.06e-03	4.06e-03	225,45,45			1.00	0.04	0.96
1467	0.05	0.06	0.0	228,225,0	0.14	4.26e-03	7.48e-03	227,44,231	0.28	227	0.87	0.06	0.94
	0.01	0.02	0.0	45,44,0	0.14	9.54e-03	9.54e-03	227,45,45			1.00	0.04	0.96
1468	9.60e-03	0.02	0.0	223,222,0	0.14	0.01	0.02	227,44,42	0.28	227	0.87	0.06	0.94
	0.01	0.01	0.0	226,44,0	0.14	4.77e-03	4.77e-03	227,45,45			1.00	0.04	0.96
1470	0.01	0.02	0.0	231,230,0	0.13	0.02	0.02	231,43,42	0.27	231	0.87	0.06	0.94
	0.02	5.62e-03	0.0	226,227,0	0.13	2.63e-03	2.63e-03	231,45,45			1.00	0.04	0.96
1472	0.06	0.06	0.0	231,230,0	0.12	0.02	0.03	225,45,42	0.27	225	0.87	0.06	0.94
	0.02	4.54e-03	0.0	226,227,0	0.12	2.88e-03	2.88e-03	225,45,45			1.00	0.04	0.96
1474	0.06	0.06	0.0	231,230,0	0.10	0.03	0.03	225,45,42	0.24	225	0.87	0.06	0.94
	0.02	4.54e-03	0.0	226,227,0	0.10	2.88e-03	2.88e-03	225,45,45			1.00	0.04	0.96
1476	0.02	0.02	0.0	47,42,0	2.31e-03	0.03	0.03	100,45,42	0.04	100	0.87	0.06	0.94
	0.02	3.05e-03	0.0	226,227,0	2.31e-03	9.61e-04	9.61e-04	100,45,45			1.00	0.04	0.96
2128	0.05	0.06	0.0	228,225,0	0.09	1.42e-03	7.48e-03	225,211,231	0.24	225	0.87	0.06	0.94
	0.01	0.02	0.0	45,44,0	0.09	9.54e-03	9.54e-03	225,45,45			1.00	0.04	0.96
2345	0.05	0.06	0.0	228,225,0	0.09	1.66e-03	7.48e-03	225,44,231	0.24	225	0.87	0.06	0.94
	0.04	0.03	0.0	45,44,0	0.09	0.02	0.02	225,45,45			1.00	0.04	0.96
2346	0.03	0.05	0.0	228,225,0	0.07	1.66e-03	5.92e-03	225,44,231	0.21	225	0.87	0.06	0.94
	0.05	0.04	0.0	43,46,0	0.07	0.03	0.03	225,46,46			1.00	0.04	0.96
2349	0.04	0.04	0.0	231,230,0	0.06	2.38e-03	6.47e-03	225,218,230	0.19	225	0.87	0.06	0.94

	0.06	0.04	0.0 43,42,0	0.06	0.03	0.03 225,42,42			1.00	0.04	0.96
2350	0.06	0.05	0.0 231,228,0	0.05	4.08e-03	8.16e-03225,217,218	0.17	225	0.87	0.06	0.94
	0.11	0.06	0.0 225,228,0	0.05	0.03	0.03 225,42,42			1.00	0.04	0.96
2351	0.06	0.05	0.0 231,228,0	0.04	4.08e-03	8.16e-03225,217,218	0.15	225	0.87	0.06	0.94
	0.13	0.07	0.0 225,228,0	0.04	0.03	0.03 225,44,44			1.00	0.04	0.96
2352	0.04	0.03	0.0 231,230,0	0.02	6.38e-03	8.00e-03226,218,218	0.10	226	0.87	0.06	0.94
	0.13	0.07	0.0 225,228,0	0.02	0.02	0.02 226,44,44			1.00	0.04	0.96
2363	0.01	0.01	0.0 231,230,0	0.02	6.38e-03	8.00e-03226,218,218	0.10	226	0.87	0.06	0.94
	0.03	0.01	0.0 44,227,0	0.02	0.01	0.01 226,44,44			1.00	0.04	0.96
2364	0.02	0.04	0.0 211,210,0	6.74e-03	1.66e-03	5.63e-03225,44,210	0.06	225	0.87	0.06	0.94
	0.01	0.01	0.0 45,44,0	6.74e-03	8.29e-03	8.29e-03 225,45,45			1.00	0.04	0.96
2365	0.03	0.04	0.0 231,210,0	0.01	1.66e-03	4.73e-03225,44,230	0.08	225	0.87	0.06	0.94
	0.02	0.01	0.0 45,44,0	0.01	0.01	0.01 225,45,45			1.00	0.04	0.96
2366	0.04	0.04	0.0 231,230,0	0.01	2.38e-03	6.47e-03225,218,230	0.09	225	0.87	0.06	0.94
	0.02	0.01	0.0 44,45,0	0.01	0.01	0.01 225,42,42			1.00	0.04	0.96
2589	0.04	0.03	0.0 231,230,0	8.86e-03	6.38e-03	8.00e-03227,218,218	0.07	227	0.87	0.06	0.94
	0.13	0.07	0.0 225,228,0	8.86e-03	9.32e-03	9.32e-03 227,44,44			1.00	0.04	0.96
2590	0.01	0.01	0.0 231,230,0	8.86e-03	6.38e-03	8.00e-03227,218,218	0.07	227	0.87	0.06	0.94
	0.03	0.01	0.0 226,227,0	8.86e-03	4.96e-03	4.96e-03 227,44,44			1.00	0.04	0.96
2826	0.06	0.05	0.0 231,228,0	0.04	4.08e-03	8.16e-03225,217,218	0.15	225	0.87	0.06	0.94
	0.11	0.06	0.0 225,228,0	0.04	0.01	0.01 225,42,42			1.00	0.04	0.96
2828	0.06	0.05	0.0 231,228,0	0.04	4.08e-03	8.16e-03225,217,218	0.15	225	0.87	0.06	0.94
	0.13	0.07	0.0 225,228,0	0.04	0.01	0.01 225,44,44			1.00	0.04	0.96
2831	0.05	0.06	0.0 228,225,0	0.14	4.26e-03	7.48e-03227,44,231	0.28	227	0.87	0.06	0.94
	0.04	0.03	0.0 45,44,0	0.14	0.02	0.02 227,45,45			1.00	0.04	0.96
2832	0.02	0.02	0.0 47,42,0	0.14	0.01	0.02 225,44,42	0.28	225	0.87	0.06	0.94
	0.03	0.02	0.0 47,46,0	0.14	0.02	0.02 225,45,45			1.00	0.04	0.96
2833	0.03	0.05	0.0 228,225,0	0.13	1.68e-03	5.92e-03227,45,231	0.28	227	0.87	0.06	0.94
	0.05	0.04	0.0 43,46,0	0.13	0.03	0.03 227,46,46			1.00	0.04	0.96
2834	0.02	0.03	0.0 47,42,0	0.14	6.40e-03	0.01 225,47,42	0.28	225	0.87	0.06	0.94
	0.04	0.03	0.0 47,46,0	0.14	0.02	0.02 225,46,46			1.00	0.04	0.96
2835	0.02	0.04	0.0 228,225,0	0.12	8.47e-04	4.96e-03227,218,44	0.27	227	0.87	0.06	0.94
	0.06	0.04	0.0 43,42,0	0.12	0.03	0.03 227,42,42			1.00	0.04	0.96
2836	0.02	0.03	0.0 47,42,0	0.13	2.58e-03	0.01 225,45,42	0.28	225	0.87	0.06	0.94
	0.05	0.03	0.0 47,42,0	0.13	0.03	0.03 225,42,42			1.00	0.04	0.96
2837	0.03	0.03	0.0 47,42,0	0.14	0.02	0.02 225,43,42	0.28	225	0.87	0.06	0.94
	0.02	5.62e-03	0.0 44,227,0	0.14	6.86e-03	6.86e-03 225,45,45			1.00	0.04	0.96
2838	0.04	0.04	0.0 47,42,0	0.14	0.01	0.02 225,47,42	0.28	225	0.87	0.06	0.94
	0.02	0.01	0.0 44,42,0	0.14	0.01	0.01 225,45,45			1.00	0.04	0.96
2839	0.04	0.04	0.0 47,42,0	0.13	4.70e-03	0.02 225,45,42	0.28	225	0.87	0.06	0.94
	0.01	0.01	0.0 47,44,0	0.13	0.01	0.01 225,42,42			1.00	0.04	0.96
2840	0.06	0.06	0.0 231,230,0	0.12	0.02	0.03 225,45,42	0.27	225	0.87	0.06	0.94
	0.02	5.38e-03	0.0 226,45,0	0.12	2.88e-03	2.88e-03 225,45,45			1.00	0.04	0.96
2841	0.05	0.05	0.0 47,42,0	0.12	0.01	0.03 225,45,42	0.27	225	0.87	0.06	0.94
	0.02	0.01	0.0 28,42,0	0.12	2.63e-03	2.63e-03 225,45,45			1.00	0.04	0.96
2842	0.06	0.05	0.0 47,42,0	0.12	6.55e-03	0.03 225,45,42	0.26	225	0.87	0.06	0.94
	0.01	0.01	0.0 47,44,0	0.12	2.90e-03	2.90e-03 225,45,45			1.00	0.04	0.96
2843	0.06	0.06	0.0 231,230,0	0.10	0.03	0.04 225,45,42	0.24	225	0.87	0.06	0.94
	0.02	4.54e-03	0.0 226,227,0	0.10	2.88e-03	2.88e-03 225,45,45			1.00	0.04	0.96
2844	0.06	0.07	0.0 47,42,0	0.10	0.02	0.04 225,45,42	0.24	225	0.87	0.06	0.94
	0.02	7.27e-03	0.0 28,42,0	0.10	2.63e-03	2.63e-03 225,45,45			1.00	0.04	0.96
2845	0.06	0.08	0.0 47,42,0	0.09	8.40e-03	0.03 225,46,42	0.23	225	0.87	0.06	0.94
	0.01	0.01	0.0 225,228,0	0.09	2.90e-03	2.90e-03 225,45,45			1.00	0.04	0.96
2846	0.05	0.05	0.0 47,42,0	0.02	0.03	0.04 100,45,42	0.10	100	0.87	0.06	0.94
	0.02	3.05e-03	0.0 226,227,0	0.02	1.95e-03	1.95e-03 100,45,45			1.00	0.04	0.96
2847	0.06	0.07	0.0 47,42,0	0.02	0.02	0.04 225,45,42	0.10	225	0.87	0.06	0.94
	0.02	6.05e-03	0.0 100,225,0	0.02	2.16e-03	2.16e-03 225,45,45			1.00	0.04	0.96
2848	0.06	0.08	0.0 47,42,0	0.02	8.40e-03	0.03 225,46,42	0.12	225	0.87	0.06	0.94
	0.01	0.01	0.0 225,228,0	0.02	2.40e-03	2.40e-03 225,46,46			1.00	0.04	0.96
2849	0.02	0.03	0.0 230,225,0	0.12	8.47e-04	5.07e-03227,218,44	0.26	227	0.87	0.06	0.94
	0.08	0.05	0.0 225,228,0	0.12	0.03	0.03 227,42,42			1.00	0.04	0.96
2850	0.02	0.03	0.0 47,42,0	0.12	3.21e-03	0.01 225,44,42	0.27	225	0.87	0.06	0.94
	0.05	0.03	0.0 43,42,0	0.12	0.03	0.03 225,42,42			1.00	0.04	0.96
2851	0.02	0.03	0.0 230,225,0	0.09	1.89e-03	5.30e-03 227,43,44	0.23	227	0.87	0.06	0.94
	0.09	0.05	0.0 225,228,0	0.09	0.03	0.03 227,44,44			1.00	0.04	0.96
2852	0.02	0.03	0.0 47,42,0	0.09	6.79e-03	0.01 227,43,42	0.23	227	0.87	0.06	0.94
	0.05	0.03	0.0 225,46,0	0.09	0.02	0.02 227,44,44			1.00	0.04	0.96
2853	0.04	0.04	0.0 47,42,0	0.12	5.59e-03	0.02 225,44,42	0.27	225	0.87	0.06	0.94
	0.03	0.03	0.0 226,227,0	0.12	0.01	0.01 225,42,42			1.00	0.04	0.96
2854	0.04	0.04	0.0 47,42,0	0.09	0.01	0.02 227,47,42	0.23	227	0.87	0.06	0.94
	0.04	0.04	0.0 226,227,0	0.09	0.01	0.01 227,44,44			1.00	0.04	0.96
2855	0.06	0.05	0.0 47,42,0	0.11	8.05e-03	0.03 225,43,42	0.26	225	0.87	0.06	0.94
	0.06	0.06	0.0 228,225,0	0.11	2.91e-03	2.91e-03 225,45,45			1.00	0.04	0.96
2856	0.05	0.05	0.0 47,42,0	0.08	0.01	0.03 225,45,42	0.22	225	0.87	0.06	0.94
	0.08	0.07	0.0 228,225,0	0.08	2.91e-03	2.91e-03 225,45,45			1.00	0.04	0.96
2857	0.06	0.08	0.0 47,44,0	0.08	0.01	0.04 225,45,44	0.21	225	0.87	0.06	0.94
	0.09	0.08	0.0 228,225,0	0.08	2.91e-03	2.91e-03 225,45,45			1.00	0.04	0.96

2858	0.05	0.08	0.0	47,44,0	0.06	0.02	0.04	225,46,44	0.20	225	0.87	0.06	0.94
	0.12	0.11	0.0	228,225,0	0.06	3.97e-03	3.97e-03	225,42,42			1.00	0.04	0.96
2859	0.06	0.08	0.0	47,44,0	0.06	0.01	0.04	225,45,44	0.19	225	0.87	0.06	0.94
	0.09	0.08	0.0	228,225,0	0.06	2.47e-03	2.47e-03	225,46,46			1.00	0.04	0.96
2860	0.05	0.08	0.0	45,44,0	0.06	0.02	0.04	225,46,44	0.19	225	0.87	0.06	0.94
	0.12	0.11	0.0	228,225,0	0.06	3.97e-03	3.97e-03	225,42,42			1.00	0.04	0.96
2861	0.02	0.02	0.0	230,231,0	0.02	4.00e-03	5.73e-03	226,45,42	0.10	226	0.87	0.06	0.94
	0.09	0.05	0.0	225,228,0	0.02	0.02	0.02	226,44,44			1.00	0.04	0.96
2862	0.02	0.02	0.0	47,42,0	0.02	0.01	0.02	231,45,42	0.10	231	0.87	0.06	0.94
	0.05	0.03	0.0	225,228,0	0.02	0.02	0.02	231,44,44			1.00	0.04	0.96
2863	2.93e-03	9.83e-03	0.0	230,33,0	0.02	4.00e-03	5.73e-03	226,45,42	0.10	226	0.87	0.06	0.94
	0.03	0.01	0.0	44,45,0	0.02	0.01	0.01	226,44,44			1.00	0.04	0.96
2864	3.38e-03	0.01	0.0	47,33,0	6.83e-03	0.01	0.02	223,45,42	0.06	223	0.87	0.06	0.94
	0.02	0.01	0.0	210,211,0	6.83e-03	5.58e-03	5.58e-03	223,44,44			1.00	0.04	0.96
2865	0.03	0.03	0.0	47,42,0	0.02	0.02	0.02	231,45,42	0.10	231	0.87	0.06	0.94
	0.04	0.04	0.0	226,227,0	0.02	7.45e-03	7.45e-03	231,44,44			1.00	0.04	0.96
2866	7.23e-03	0.02	0.0	47,42,0	5.12e-03	0.02	0.02	223,45,42	0.05	223	0.87	0.06	0.94
	0.02	0.01	0.0	226,227,0	5.12e-03	2.19e-03	2.19e-03	223,45,45			1.00	0.04	0.96
2867	0.03	0.04	0.0	47,42,0	0.01	0.02	0.03	235,45,42	0.09	235	0.87	0.06	0.94
	0.08	0.07	0.0	228,225,0	0.01	2.19e-03	2.19e-03	235,45,45			1.00	0.04	0.96
2868	0.01	0.02	0.0	47,42,0	7.84e-03	0.02	0.03	228,45,42	0.07	228	0.87	0.06	0.94
	0.02	0.02	0.0	226,227,0	7.84e-03	2.19e-03	2.19e-03	228,45,45			1.00	0.04	0.96
2869	0.03	0.06	0.0	47,44,0	0.02	0.02	0.04	228,44,44	0.09	228	0.87	0.06	0.94
	0.12	0.11	0.0	228,225,0	0.02	3.97e-03	3.97e-03	228,42,42			1.00	0.04	0.96
2870	0.01	0.03	0.0	47,44,0	0.02	0.02	0.03	228,44,44	0.09	228	0.87	0.06	0.94
	0.02	0.02	0.0	226,227,0	0.02	1.52e-03	1.52e-03	228,44,44			1.00	0.04	0.96
2871	0.03	0.06	0.0	45,44,0	0.02	0.02	0.04	228,44,44	0.09	228	0.87	0.06	0.94
	0.12	0.11	0.0	228,225,0	0.02	3.97e-03	3.97e-03	228,42,42			1.00	0.04	0.96
2872	7.43e-03	0.03	0.0	45,44,0	0.02	0.02	0.03	228,44,44	0.09	228	0.87	0.06	0.94
	0.02	0.02	0.0	226,227,0	0.02	1.08e-03	1.08e-03	228,223,223			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.13	0.11	0.0	0.14	0.03	0.04	0.28

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
79	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.31	-15.9	207	0.12	-6.0	192	0.15	-3092.0	-1.801e+05	224

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
729	0.04	0.04	0.0	221,224,0	0.02	6.01e-03	0.01	235,219,224	0.11	235	0.87	0.06	0.94
	6.87e-03	5.08e-03	0.0	215,214,0	0.02	1.12e-03	1.12e-03	235,235,235			1.00	0.04	0.96
730	0.04	0.04	0.0	237,240,0	0.02	3.34e-03	0.01	235,220,224	0.11	235	0.87	0.06	0.94
	0.01	6.85e-03	0.0	236,233,0	0.02	8.00e-04	8.00e-04	235,219,219			1.00	0.04	0.96
732	0.01	0.01	0.0	233,236,0	1.74e-03	0.01	0.01	239,220,220	0.03	239	0.87	0.06	0.94
	2.70e-03	4.68e-03	0.0	211,210,0	1.74e-03	1.80e-03	1.80e-03	239,217,217			1.00	0.04	0.96
734	0.06	0.06	0.0	233,236,0	0.03	8.26e-03	0.02	235,220,220	0.14	235	0.87	0.06	0.94
	0.06	0.05	0.0	235,234,0	0.03	1.58e-03	1.58e-03	235,218,218			1.00	0.04	0.96
751	0.02	0.03	0.0	217,220,0	0.01	9.55e-03	0.01	233,219,219	0.09	233	0.87	0.06	0.94
	5.19e-03	4.86e-03	0.0	216,213,0	0.01	2.46e-03	2.46e-03	233,218,218			1.00	0.04	0.96
752	0.03	0.04	0.0	221,224,0	0.02	9.55e-03	0.01	235,219,224	0.11	235	0.87	0.06	0.94
	6.87e-03	5.08e-03	0.0	215,214,0	0.02	2.46e-03	2.46e-03	235,218,218			1.00	0.04	0.96
754	0.06	0.06	0.0	233,236,0	0.03	1.92e-03	0.01	235,220,220	0.14	235	0.87	0.06	0.94
	0.06	0.04	0.0	235,234,0	0.03	9.32e-04	9.32e-04	235,218,218			1.00	0.04	0.96
764	0.04	0.04	0.0	233,236,0	1.74e-03	0.01	0.02	239,220,220	0.03	239	0.87	0.06	0.94
	0.06	0.05	0.0	235,234,0	1.74e-03	1.80e-03	1.80e-03	239,217,217			1.00	0.04	0.96
2041	0.02	0.03	0.0	217,220,0	0.02	9.55e-03	0.01	235,219,219	0.11	235	0.87	0.06	0.94
	0.02	0.01	0.0	211,210,0	0.02	4.46e-03	4.46e-03	235,234,234			1.00	0.04	0.96
2043	0.02	0.03	0.0	240,210,0	0.02	0.01	0.02	235,237,100	0.11	235	0.87	0.06	0.94
	0.03	0.02	0.0	211,210,0	0.02	4.46e-03	4.46e-03	235,234,234			1.00	0.04	0.96
2045	0.02	0.03	0.0	240,210,0	2.89e-03	0.01	0.02	235,237,100	0.04	235	0.87	0.06	0.94
	0.03	0.02	0.0	211,210,0	2.87e-03	4.00e-03	4.00e-03	235,238,238			1.00	0.04	0.96
2362	0.04	0.04	0.0	233,236,0	7.50e-03	0.01	0.02	224,220,220	0.07	224	0.87	0.06	0.94
	0.06	0.05	0.0	235,234,0	7.49e-03	1.80e-03	1.80e-03	224,217,217			1.00	0.04	0.96
2403	0.06	0.06	0.0	233,236,0	0.03	1.92e-03	0.01	235,220,220	0.14	235	0.87	0.06	0.94
	0.06	0.04	0.0	235,234,0	0.03	1.23e-03	1.23e-03	235,219,219			1.00	0.04	0.96
2404	0.06	0.06	0.0	233,236,0	0.03	8.26e-03	0.02	235,220,220	0.14	235	0.87	0.06	0.94
	0.06	0.05	0.0	235,234,0	0.03	1.58e-03	1.58e-03	235,218,218			1.00	0.04	0.96

2405	0.02	0.02	0.0 217,220,0	0.03	1.87e-03	7.43e-03	5,220,220	0.12	235	0.87	0.06	0.94
	0.03	0.02	0.0 235,234,0	0.03	2.47e-03	2.47e-03	5,220,220			1.00	0.04	0.96
2406	0.02	0.02	0.0 217,223,0	0.02	3.59e-03	7.75e-03	5,219,220	0.10	235	0.87	0.06	0.94
	0.03	0.03	0.0 235,234,0	0.02	1.95e-03	1.95e-03	5,223,223			1.00	0.04	0.96
2407	0.01	0.02	0.0 224,237,0	0.02	7.30e-04	3.76e-03	5,100,217	0.10	235	0.87	0.06	0.94
	9.42e-03	6.42e-03	0.0 235,234,0	0.02	2.47e-03	2.47e-03	5,220,220			1.00	0.04	0.96
2408	0.01	0.01	0.0 233,236,0	5.82e-03	0.01	0.01	240,220,220	0.06	240	0.87	0.06	0.94
	0.01	0.01	0.0 227,226,0	5.82e-03	1.80e-03	1.80e-03	240,217,217			1.00	0.04	0.96
2409	0.01	0.02	0.0 217,237,0	7.50e-03	6.23e-03	8.33e-03	224,217,220	0.07	224	0.87	0.06	0.94
	0.03	0.03	0.0 235,234,0	7.49e-03	2.89e-03	2.89e-03	224,218,218			1.00	0.04	0.96
2410	7.86e-03	0.01	0.0 217,105,0	5.82e-03	6.23e-03	8.33e-03	240,217,220	0.06	240	0.87	0.06	0.94
	0.01	0.01	0.0 229,232,0	5.82e-03	2.89e-03	2.89e-03	240,218,218			1.00	0.04	0.96
2411	9.53e-03	0.02	0.0 224,237,0	5.01e-03	3.67e-03	5.08e-03	220,222,222	0.05	220	0.87	0.06	0.94
	0.02	0.02	0.0 237,240,0	5.01e-03	2.89e-03	2.89e-03	220,218,218			1.00	0.04	0.96
2412	2.66e-03	0.01	0.0 224,105,0	8.08e-04	3.67e-03	5.08e-03	224,222,222	0.02	224	0.87	0.06	0.94
	0.01	0.01	0.0 229,232,0	8.07e-04	2.89e-03	2.89e-03	224,218,218			1.00	0.04	0.96
2495	0.01	0.02	0.0 240,237,0	0.01	1.44e-03	3.40e-03	5,234,217	0.09	235	0.87	0.06	0.94
	0.02	0.02	0.0 237,240,0	0.01	1.95e-03	1.95e-03	5,223,223			1.00	0.04	0.96
2561	0.03	0.04	0.0 221,224,0	0.03	9.55e-03	0.01	235,219,224	0.14	235	0.87	0.06	0.94
	0.02	0.01	0.0 211,210,0	0.03	4.46e-03	4.46e-03	5,234,234			1.00	0.04	0.96
2562	0.04	0.04	0.0 221,224,0	0.03	6.01e-03	0.01	235,219,224	0.14	235	0.87	0.06	0.94
	0.02	0.01	0.0 223,222,0	0.03	1.88e-03	1.88e-03	5,234,234			1.00	0.04	0.96
2563	0.04	0.04	0.0 237,240,0	0.03	3.34e-03	0.01	235,220,224	0.13	235	0.87	0.06	0.94
	0.01	6.85e-03	0.0 236,233,0	0.03	1.88e-03	1.88e-03	5,234,234			1.00	0.04	0.96
2564	0.02	0.03	0.0 240,210,0	0.03	0.01	0.02	235,237,100	0.14	235	0.87	0.06	0.94
	0.03	0.02	0.0 211,210,0	0.03	6.29e-03	6.29e-03	5,214,214			1.00	0.04	0.96
2565	0.02	0.02	0.0 240,240,0	0.03	0.01	0.01	235,234,226	0.14	235	0.87	0.06	0.94
	0.02	0.01	0.0 239,238,0	0.03	6.29e-03	6.29e-03	5,214,214			1.00	0.04	0.96
2566	0.02	0.02	0.0 217,220,0	0.03	2.45e-03	7.66e-03	5,222,220	0.13	235	0.87	0.06	0.94
	7.43e-03	3.95e-03	0.0 234,235,0	0.03	2.55e-03	2.55e-03	5,240,240			1.00	0.04	0.96
2567	0.02	0.03	0.0 240,210,0	0.02	0.01	0.02	235,237,100	0.10	235	0.87	0.06	0.94
	0.03	0.02	0.0 211,210,0	0.02	6.29e-03	6.29e-03	5,214,214			1.00	0.04	0.96
2568	0.02	0.02	0.0 240,221,0	0.02	0.01	0.01	235,234,226	0.10	235	0.87	0.06	0.94
	0.02	0.01	0.0 239,238,0	0.02	6.29e-03	6.29e-03	5,214,214			1.00	0.04	0.96
2569	0.01	0.02	0.0 224,221,0	0.02	2.36e-03	4.63e-03	5,222,217	0.10	235	0.87	0.06	0.94
	7.43e-03	3.95e-03	0.0 234,235,0	0.02	2.55e-03	2.55e-03	5,240,240			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.06	0.06	0.0	0.03	0.01	0.02	0.14

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
80	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.22	2.2	201	0.37	3.6	193	0.32	2049.3	-3.025e+04	236

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1234	0.04	0.04	0.0	230,225,0	1.91e-03	0.01	0.02	233,219,219	0.03	233	0.87	0.06	0.94
	0.01	9.26e-03	0.0	45,46,0	1.91e-03	8.89e-03	8.89e-03	233,45,45			1.00	0.04	0.96
1293	0.04	0.04	0.0	230,225,0	1.91e-03	0.01	0.02	233,219,219	0.03	233	0.87	0.06	0.94
	0.01	9.26e-03	0.0	45,46,0	1.91e-03	8.89e-03	8.89e-03	233,45,45			1.00	0.04	0.96
2591	0.04	0.04	0.0	230,225,0	1.91e-03	0.01	0.02	233,219,219	0.03	233	0.87	0.06	0.94
	0.03	0.02	0.0	45,46,0	1.91e-03	0.02	0.02	233,45,45			1.00	0.04	0.96
2593	0.03	0.04	0.0	228,233,0	2.03e-03	3.79e-03	6.27e-03	233,219,221	0.03	233	0.87	0.06	0.94
	0.03	0.02	0.0	45,45,0	2.03e-03	0.02	0.02	233,45,45			1.00	0.04	0.96
2595	0.03	0.03	0.0	228,233,0	2.64e-03	2.68e-03	6.06e-03	233,100,44	0.04	233	0.87	0.06	0.94
	0.03	0.02	0.0	44,44,0	2.64e-03	0.03	0.03	233,43,43			1.00	0.04	0.96
2615	0.02	0.03	0.0	228,233,0	3.51e-03	2.37e-03	4.22e-03	225,100,44	0.05	225	0.87	0.06	0.94
	0.03	0.02	0.0	44,44,0	3.51e-03	0.03	0.03	225,44,44			1.00	0.04	0.96
2617	0.02	0.02	0.0	228,225,0	4.60e-03	1.58e-03	3.39e-03	225,4,18	0.05	225	0.87	0.06	0.94
	0.03	0.02	0.0	44,44,0	4.60e-03	0.03	0.03	225,44,44			1.00	0.04	0.96
2631	0.01	0.01	0.0	228,225,0	5.58e-03	4.68e-03	5.89e-03	225,47,47	0.06	225	0.87	0.06	0.94
	0.03	0.02	0.0	44,44,0	5.58e-03	0.02	0.02	225,44,44			1.00	0.04	0.96
2633	4.05e-03	6.50e-03	0.0	230,229,0	5.58e-03	4.68e-03	5.89e-03	225,47,47	0.06	225	0.87	0.06	0.94
	3.65e-03	3.18e-03	0.0	42,42,0	5.58e-03	2.02e-03	2.02e-03	225,42,42			1.00	0.04	0.96
2683	0.04	0.04	0.0	230,225,0	1.91e-03	0.01	0.02	233,219,219	0.03	233	0.87	0.06	0.94
	0.03	0.02	0.0	45,46,0	1.91e-03	0.02	0.02	233,45,45			1.00	0.04	0.96
2684	0.03	0.04	0.0	228,233,0	2.03e-03	3.79e-03	6.27e-03	233,219,221	0.03	233	0.87	0.06	0.94
	0.03	0.02	0.0	45,45,0	2.03e-03	0.02	0.02	233,45,45			1.00	0.04	0.96

2685	0.03	0.03	0.0	228,233,0	2.64e-03	2.68e-03	6.06e-03	233,100,44	0.04	233	0.87	0.06	0.94
	0.03	0.02	0.0	44,44,0	2.64e-03	0.03	0.03	233,43,43			1.00	0.04	0.96
2686	0.02	0.03	0.0	228,233,0	3.51e-03	2.37e-03	4.22e-03	225,100,44	0.05	225	0.87	0.06	0.94
	0.03	0.02	0.0	44,44,0	3.51e-03	0.03	0.03	225,44,44			1.00	0.04	0.96
2687	0.02	0.02	0.0	228,225,0	4.60e-03	1.58e-03	3.39e-03	225,4,18	0.05	225	0.87	0.06	0.94
	0.03	0.02	0.0	44,44,0	4.60e-03	0.03	0.03	225,44,44			1.00	0.04	0.96
2688	0.01	0.01	0.0	228,225,0	5.58e-03	4.68e-03	5.89e-03	225,47,47	0.06	225	0.87	0.06	0.94
	0.03	0.02	0.0	44,44,0	5.58e-03	0.02	0.02	225,44,44			1.00	0.04	0.96
2689	4.05e-03	6.50e-03	0.0	230,229,0	5.58e-03	4.68e-03	5.89e-03	225,47,47	0.06	225	0.87	0.06	0.94
	3.65e-03	3.18e-03	0.0	42,42,0	5.58e-03	2.02e-03	2.02e-03	225,42,42			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.04	0.04	0.0	5.58e-03	0.03	0.03	0.06

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
81	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.64	-8.2	193	0.48	-6.2	207	0.16	2910.3	1.740e+04	228

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
516	0.05	0.10	0.0	228,225,0	4.92e-03	0.01	0.02	225,44,44	0.05	225	0.87	0.06	0.94
	0.03	0.02	0.0	44,45,0	4.91e-03	0.03	0.03	225,43,43			1.00	0.04	0.96
531	5.11e-03	0.04	0.0	218,100,0	0.02	0.02	0.02	235,221,221	0.12	235	0.87	0.06	0.94
	4.42e-03	6.49e-03	0.0	221,224,0	0.02	4.11e-03	4.11e-03	235,221,221			1.00	0.04	0.96
660	0.06	0.08	0.0	218,219,0	0.04	0.04	0.07	225,218,219	0.14	225	0.87	0.06	0.94
	0.12	0.07	0.0	44,45,0	0.04	0.06	0.06	225,45,45			1.00	0.04	0.96
667	0.03	0.05	0.0	236,100,0	0.02	0.01	0.02	225,221,221	0.11	225	0.87	0.06	0.94
	0.02	0.02	0.0	44,44,0	0.02	0.02	0.02	225,44,44			1.00	0.04	0.96
668	0.02	0.04	0.0	236,233,0	3.40e-03	5.45e-03	0.01	225,221,221	0.04	225	0.87	0.06	0.94
	4.47e-03	3.65e-03	0.0	43,44,0	3.40e-03	5.51e-03	5.51e-03	225,44,44			1.00	0.04	0.96
671	0.02	0.05	0.0	236,100,0	0.02	0.01	0.02	225,221,221	0.11	225	0.87	0.06	0.94
	0.02	0.02	0.0	44,44,0	0.02	0.02	0.02	225,221,221			1.00	0.04	0.96
673	0.02	0.02	0.0	218,237,0	2.41e-03	0.01	0.02	233,221,221	0.04	233	0.87	0.06	0.94
	3.39e-03	3.17e-03	0.0	45,44,0	2.40e-03	4.37e-03	4.37e-03	233,44,44			1.00	0.04	0.96
675	0.02	0.05	0.0	218,100,0	0.02	0.02	0.02	235,221,221	0.12	235	0.87	0.06	0.94
	0.02	0.02	0.0	221,221,0	0.02	0.02	0.02	235,221,221			1.00	0.04	0.96
677	5.11e-03	9.77e-03	0.0	218,221,0	1.22e-03	0.01	0.02	233,221,221	0.03	233	0.87	0.06	0.94
	2.38e-03	2.60e-03	0.0	221,224,0	1.21e-03	1.10e-03	1.10e-03	233,212,212			1.00	0.04	0.96
1309	0.06	0.08	0.0	218,219,0	0.04	0.04	0.07	225,218,219	0.14	225	0.87	0.06	0.94
	0.12	0.07	0.0	44,45,0	0.04	0.06	0.06	225,45,45			1.00	0.04	0.96
1310	0.02	0.05	0.0	230,231,0	0.03	0.02	0.02	225,218,219	0.13	225	0.87	0.06	0.94
	0.05	0.03	0.0	45,45,0	0.03	0.03	0.03	225,45,45			1.00	0.04	0.96
1311	5.56e-03	0.05	0.0	230,100,0	0.02	0.01	0.02	225,221,221	0.12	225	0.87	0.06	0.94
	0.03	0.02	0.0	45,45,0	0.02	0.02	0.02	225,45,45			1.00	0.04	0.96
1331	9.69e-03	0.05	0.0	218,100,0	0.02	0.01	0.02	225,221,221	0.11	225	0.87	0.06	0.94
	0.02	0.02	0.0	44,44,0	0.02	0.02	0.02	225,44,44			1.00	0.04	0.96
1332	0.01	0.05	0.0	218,100,0	0.02	0.01	0.02	225,221,221	0.11	225	0.87	0.06	0.94
	0.02	0.02	0.0	44,44,0	0.02	0.02	0.02	225,221,221			1.00	0.04	0.96
1349	0.01	0.05	0.0	218,100,0	0.02	0.02	0.02	235,221,221	0.12	235	0.87	0.06	0.94
	0.02	0.02	0.0	221,221,0	0.02	0.02	0.02	235,221,221			1.00	0.04	0.96
1350	0.0	0.04	0.0	0,100,0	0.02	0.02	0.02	235,221,221	0.12	235	0.0	0.0	0.0
	4.42e-03	6.49e-03	0.0	221,224,0	0.02	4.11e-03	4.11e-03	235,221,221			1.00	0.04	0.96
1365	0.06	0.10	0.0	218,225,0	0.04	0.04	0.07	225,218,219	0.14	225	0.87	0.06	0.94
	0.12	0.07	0.0	44,45,0	0.04	0.06	0.06	225,45,45			1.00	0.04	0.96
2713	0.05	0.10	0.0	228,225,0	5.01e-03	0.01	0.02	225,44,44	0.05	225	0.87	0.06	0.94
	0.03	0.02	0.0	44,45,0	5.00e-03	0.03	0.03	225,43,43			1.00	0.04	0.96
2731	0.06	0.10	0.0	218,225,0	0.04	0.04	0.07	225,218,219	0.14	225	0.87	0.06	0.94
	0.12	0.07	0.0	44,45,0	0.04	0.06	0.06	225,45,45			1.00	0.04	0.96
2732	0.04	0.08	0.0	228,225,0	5.01e-03	6.27e-03	0.01	225,221,221	0.05	225	0.87	0.06	0.94
	9.52e-03	7.16e-03	0.0	45,44,0	5.00e-03	0.01	0.01	225,45,45			1.00	0.04	0.96
2749	0.04	0.08	0.0	228,225,0	0.03	0.02	0.02	225,218,219	0.13	225	0.87	0.06	0.94
	0.05	0.03	0.0	45,45,0	0.03	0.03	0.03	225,45,45			1.00	0.04	0.96
2750	0.03	0.06	0.0	236,233,0	4.93e-03	6.80e-03	0.01	225,221,221	0.05	225	0.87	0.06	0.94
	5.93e-03	4.50e-03	0.0	45,44,0	4.92e-03	6.58e-03	6.58e-03	225,45,45			1.00	0.04	0.96
3065	0.03	0.06	0.0	236,233,0	0.02	0.01	0.02	225,221,221	0.12	225	0.87	0.06	0.94
	0.03	0.02	0.0	45,45,0	0.02	0.02	0.02	225,45,45			1.00	0.04	0.96
3066	0.03	0.05	0.0	236,233,0	4.23e-03	6.80e-03	0.01	225,221,221	0.05	225	0.87	0.06	0.94
	4.96e-03	3.87e-03	0.0	43,44,0	4.22e-03	5.56e-03	5.56e-03	225,44,44			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.12	0.10	0.0	0.04	0.06	0.07	0.14

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
82	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.31	-4.0	204	0.45	-5.8	204	0.28	-3115.2	-8.391e+04	236

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1341	9.17e-03	0.04	0.0	222,100,0	9.41e-03	0.01	0.02	100,220,220	0.07	100	0.87	0.06	0.94
	6.56e-03	7.39e-03	0.0	45,18,0	9.40e-03	5.92e-03	5.92e-03	100,219,219			1.00	0.04	0.96
1396	0.03	0.07	0.0	233,236,0	2.53e-03	7.49e-03	0.01	236,43,44	0.04	236	0.87	0.06	0.94
	3.87e-04	4.61e-03	0.0	211,100,0	2.52e-03	2.49e-03	2.49e-03	236,219,219			1.00	0.04	0.96
1397	0.03	0.07	0.0	233,236,0	9.41e-03	0.01	0.02	100,220,220	0.07	100	0.87	0.06	0.94
	6.56e-03	7.39e-03	0.0	45,18,0	9.40e-03	5.92e-03	5.92e-03	100,219,219			1.00	0.04	0.96
2690	9.17e-03	0.04	0.0	222,100,0	9.41e-03	0.01	0.02	100,220,220	0.07	100	0.87	0.06	0.94
	0.02	0.01	0.0	45,46,0	9.40e-03	0.01	0.01	100,46,46			1.00	0.04	0.96
2692	1.21e-03	0.04	0.0	238,100,0	7.27e-03	3.20e-03	7.34e-03	100,221,100	0.07	100	0.87	0.06	0.94
	0.02	0.02	0.0	45,46,0	7.27e-03	0.02	0.02	100,45,45			1.00	0.04	0.96
2694	0.0	0.03	0.0	0,107,0	7.10e-03	2.64e-03	7.34e-03	236,221,100	0.06	236	0.0	0.0	0.0
	0.03	0.02	0.0	42,42,0	7.10e-03	0.02	0.02	236,44,44			1.00	0.04	0.96
2717	0.0	0.03	0.0	0,107,0	8.90e-03	2.13e-03	5.48e-03	236,100,100	0.07	236	0.0	0.0	0.0
	0.03	0.02	0.0	42,42,0	8.90e-03	0.02	0.02	236,44,44			1.00	0.04	0.96
2719	0.0	0.02	0.0	0,107,0	0.01	1.40e-03	3.98e-03	228,221,107	0.08	228	0.0	0.0	0.0
	0.03	0.02	0.0	44,44,0	0.01	0.02	0.02	228,44,44			1.00	0.04	0.96
2735	0.0	0.02	0.0	0,107,0	0.01	2.36e-03	3.50e-03	228,221,221	0.09	228	0.0	0.0	0.0
	0.02	0.02	0.0	44,44,0	0.01	0.02	0.02	228,44,44			1.00	0.04	0.96
2737	0.0	0.02	0.0	0,107,0	0.01	2.36e-03	3.50e-03	228,221,221	0.09	228	0.0	0.0	0.0
	1.54e-03	3.00e-03	0.0	45,44,0	0.01	1.85e-03	1.85e-03	228,44,44			1.00	0.04	0.96
2780	0.03	0.07	0.0	233,236,0	2.53e-03	7.49e-03	0.01	236,43,44	0.04	236	0.87	0.06	0.94
	3.43e-03	4.61e-03	0.0	45,100,0	2.52e-03	4.17e-03	4.17e-03	236,45,45			1.00	0.04	0.96
2781	0.03	0.07	0.0	233,236,0	9.41e-03	0.01	0.02	100,220,220	0.07	100	0.87	0.06	0.94
	0.02	0.01	0.0	45,46,0	9.40e-03	0.01	0.01	100,46,46			1.00	0.04	0.96
2782	0.03	0.06	0.0	225,236,0	2.08e-03	1.70e-03	8.50e-03	236,43,44	0.03	236	0.87	0.06	0.94
	4.80e-03	3.59e-03	0.0	45,46,0	2.07e-03	5.79e-03	5.79e-03	236,46,46			1.00	0.04	0.96
2783	0.03	0.06	0.0	225,236,0	7.27e-03	3.20e-03	8.50e-03	100,221,44	0.07	100	0.87	0.06	0.94
	0.02	0.02	0.0	45,46,0	7.27e-03	0.02	0.02	100,45,45			1.00	0.04	0.96
2784	0.03	0.05	0.0	225,236,0	2.34e-03	1.60e-03	6.86e-03	236,100,44	0.04	236	0.87	0.06	0.94
	5.24e-03	3.84e-03	0.0	46,42,0	2.34e-03	6.37e-03	6.37e-03	236,42,42			1.00	0.04	0.96
2785	0.03	0.05	0.0	225,236,0	7.10e-03	2.64e-03	7.34e-03	236,221,100	0.06	236	0.87	0.06	0.94
	0.03	0.02	0.0	42,42,0	7.10e-03	0.02	0.02	236,44,44			1.00	0.04	0.96
2786	0.02	0.04	0.0	225,236,0	2.78e-03	1.60e-03	5.90e-03	236,100,44	0.04	236	0.87	0.06	0.94
	5.24e-03	3.84e-03	0.0	46,42,0	2.78e-03	6.37e-03	6.37e-03	236,42,42			1.00	0.04	0.96
2787	0.02	0.04	0.0	225,236,0	8.90e-03	2.13e-03	5.90e-03	236,100,44	0.07	236	0.87	0.06	0.94
	0.03	0.02	0.0	42,42,0	8.90e-03	0.02	0.02	236,44,44			1.00	0.04	0.96
2788	0.02	0.03	0.0	233,236,0	3.29e-03	1.16e-03	4.42e-03	228,47,44	0.04	228	0.87	0.06	0.94
	5.09e-03	3.78e-03	0.0	44,44,0	3.29e-03	6.31e-03	6.31e-03	228,44,44			1.00	0.04	0.96
2789	0.02	0.03	0.0	233,236,0	0.01	1.40e-03	4.42e-03	228,221,44	0.08	228	0.87	0.06	0.94
	0.03	0.02	0.0	44,44,0	0.01	0.02	0.02	228,44,44			1.00	0.04	0.96
2790	0.01	0.02	0.0	233,228,0	3.60e-03	5.87e-03	7.25e-03	228,47,47	0.05	228	0.87	0.06	0.94
	4.10e-03	3.17e-03	0.0	44,44,0	3.60e-03	4.94e-03	4.94e-03	228,44,44			1.00	0.04	0.96
2791	0.01	0.02	0.0	233,107,0	0.01	5.87e-03	7.25e-03	228,47,47	0.09	228	0.87	0.06	0.94
	0.02	0.02	0.0	44,44,0	0.01	0.02	0.02	228,44,44			1.00	0.04	0.96
2792	3.58e-03	6.93e-03	0.0	237,230,0	3.60e-03	5.87e-03	7.25e-03	228,47,47	0.05	228	0.87	0.06	0.94
	6.71e-04	6.66e-04	0.0	239,226,0	3.60e-03	4.59e-04	4.59e-04	228,210,210			1.00	0.04	0.96
2793	3.58e-03	0.02	0.0	237,107,0	0.01	5.87e-03	7.25e-03	228,47,47	0.09	228	0.87	0.06	0.94
	1.54e-03	3.00e-03	0.0	45,44,0	0.01	1.85e-03	1.85e-03	228,44,44			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.03	0.07	0.0	0.01	0.02	0.02	0.09

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
83	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.38	-25.7	199	0.28	18.8	193	0.09	1827.6	-1.872e+05	212

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1214	0.02	0.03	0.0	231,230,0	0.04	0.02	0.02	231,231,230	0.16	231	0.87	0.06	0.94
	4.65e-03	3.62e-03	0.0	213,216,0	0.04	2.83e-03	2.83e-03	231,236,236			1.00	0.04	0.96
1215	0.02	0.01	0.0	231,230,0	9.09e-03	6.66e-03	8.60e-03	229,47,43	0.07	229	0.87	0.06	0.94
	0.02	0.02	0.0	228,225,0	9.09e-03	8.97e-03	8.97e-03	229,42,42			1.00	0.04	0.96
1231	4.13e-03	6.09e-03	0.0	47,42,0	9.09e-03	6.66e-03	8.60e-03	229,47,43	0.07	229	0.87	0.06	0.94
	7.20e-03	4.43e-03	0.0	226,227,0	9.09e-03	2.54e-03	2.54e-03	229,45,45			1.00	0.04	0.96
1424	0.04	0.04	0.0	231,230,0	0.06	0.02	0.03	227,43,44	0.19	227	0.87	0.06	0.94
	9.82e-03	4.67e-03	0.0	230,231,0	0.06	5.38e-03	5.38e-03	227,46,46			1.00	0.04	0.96
1426	0.04	0.04	0.0	231,230,0	0.06	0.03	0.04	227,46,42	0.19	227	0.87	0.06	0.94
	0.01	6.50e-03	0.0	232,229,0	0.06	5.38e-03	5.38e-03	227,46,46			1.00	0.04	0.96
1428	0.03	0.03	0.0	216,213,0	5.28e-04	0.03	0.04	225,46,42	0.02	225	0.87	0.06	0.94
	0.01	6.50e-03	0.0	232,229,0	5.26e-04	3.07e-03	3.07e-03	225,46,46			1.00	0.04	0.96
2630	0.02	0.03	0.0	231,230,0	0.04	0.02	0.02	231,231,230	0.16	231	0.87	0.06	0.94
	7.96e-03	5.77e-03	0.0	45,46,0	0.04	7.96e-03	7.96e-03	231,46,46			1.00	0.04	0.96
2645	0.02	0.02	0.0	231,44,0	0.04	5.67e-03	9.83e-03	231,231,44	0.16	231	0.87	0.06	0.94
	0.01	8.23e-03	0.0	45,46,0	0.04	9.97e-03	9.97e-03	231,46,46			1.00	0.04	0.96
2646	0.02	0.02	0.0	231,44,0	0.04	1.69e-03	8.36e-03	231,218,44	0.15	231	0.87	0.06	0.94
	0.01	9.47e-03	0.0	45,42,0	0.04	0.01	0.01	231,46,46			1.00	0.04	0.96
2711	0.02	0.02	0.0	231,230,0	0.04	1.83e-03	8.26e-03	231,43,43	0.15	231	0.87	0.06	0.94
	0.02	0.01	0.0	228,225,0	0.04	0.01	0.01	231,46,46			1.00	0.04	0.96
2712	0.02	0.02	0.0	231,230,0	0.02	3.50e-03	8.26e-03	231,43,43	0.12	231	0.87	0.06	0.94
	0.02	0.02	0.0	228,225,0	0.02	0.01	0.01	231,42,42			1.00	0.04	0.96
2794	0.04	0.04	0.0	231,230,0	0.06	0.02	0.03	227,43,44	0.19	227	0.87	0.06	0.94
	0.01	8.36e-03	0.0	44,45,0	0.06	7.96e-03	7.96e-03	227,46,46			1.00	0.04	0.96
2795	0.05	0.04	0.0	47,44,0	0.05	0.01	0.02	227,43,44	0.17	227	0.87	0.06	0.94
	0.02	0.01	0.0	45,46,0	0.05	9.97e-03	9.97e-03	227,46,46			1.00	0.04	0.96
2796	0.05	0.04	0.0	47,44,0	0.04	5.42e-03	0.02	231,43,43	0.15	231	0.87	0.06	0.94
	0.02	0.01	0.0	45,42,0	0.04	0.01	0.01	231,46,46			1.00	0.04	0.96
2797	0.05	0.04	0.0	45,44,0	0.06	0.03	0.04	227,46,42	0.19	227	0.87	0.06	0.94
	0.01	8.36e-03	0.0	44,45,0	0.06	5.38e-03	5.38e-03	227,46,46			1.00	0.04	0.96
2798	0.07	0.06	0.0	45,44,0	0.05	0.02	0.04	227,46,42	0.17	227	0.87	0.06	0.94
	0.02	0.01	0.0	45,46,0	0.05	3.43e-03	3.43e-03	227,46,46			1.00	0.04	0.96
2799	0.08	0.07	0.0	45,44,0	0.04	9.60e-03	0.04	227,42,44	0.15	227	0.87	0.06	0.94
	0.02	0.01	0.0	45,42,0	0.04	3.71e-03	3.71e-03	227,46,46			1.00	0.04	0.96
2800	0.05	0.04	0.0	45,44,0	4.68e-03	0.03	0.04	227,46,42	0.05	227	0.87	0.06	0.94
	0.01	6.50e-03	0.0	232,229,0	4.68e-03	3.28e-03	3.28e-03	227,46,46			1.00	0.04	0.96
2801	0.07	0.06	0.0	45,44,0	6.92e-03	0.02	0.04	231,46,42	0.06	231	0.87	0.06	0.94
	9.90e-03	5.87e-03	0.0	230,225,0	6.91e-03	3.43e-03	3.43e-03	231,46,46			1.00	0.04	0.96
2802	0.08	0.07	0.0	45,44,0	9.30e-03	9.60e-03	0.04	231,42,44	0.07	231	0.87	0.06	0.94
	0.01	0.01	0.0	225,228,0	9.30e-03	3.71e-03	3.71e-03	231,46,46			1.00	0.04	0.96
2809	0.05	0.04	0.0	47,44,0	0.04	6.77e-03	0.02	231,43,43	0.15	231	0.87	0.06	0.94
	0.05	0.04	0.0	228,225,0	0.04	0.01	0.01	231,46,46			1.00	0.04	0.96
2810	0.05	0.04	0.0	47,44,0	0.02	0.01	0.02	231,43,43	0.12	231	0.87	0.06	0.94
	0.06	0.05	0.0	228,225,0	0.02	0.01	0.01	231,42,42			1.00	0.04	0.96
2811	0.08	0.07	0.0	45,233,0	0.03	0.01	0.04	227,46,44	0.13	227	0.87	0.06	0.94
	0.08	0.07	0.0	228,225,0	0.03	3.76e-03	3.76e-03	227,42,42			1.00	0.04	0.96
2812	0.07	0.07	0.0	45,233,0	0.03	0.02	0.04	225,42,44	0.13	225	0.87	0.06	0.94
	0.11	0.09	0.0	228,225,0	0.03	5.61e-03	5.61e-03	225,42,42			1.00	0.04	0.96
2813	0.08	0.07	0.0	45,233,0	0.03	0.01	0.04	225,46,44	0.13	225	0.87	0.06	0.94
	0.08	0.07	0.0	228,225,0	0.03	3.76e-03	3.76e-03	225,42,42			1.00	0.04	0.96
2814	0.07	0.07	0.0	45,233,0	0.03	0.02	0.04	225,42,44	0.13	225	0.87	0.06	0.94
	0.11	0.09	0.0	228,225,0	0.03	5.61e-03	5.61e-03	225,42,42			1.00	0.04	0.96
2819	0.03	0.03	0.0	47,44,0	0.02	0.02	0.02	225,43,43	0.11	225	0.87	0.06	0.94
	0.06	0.05	0.0	228,225,0	0.02	8.97e-03	8.97e-03	225,42,42			1.00	0.04	0.96
2820	0.01	9.92e-03	0.0	47,44,0	0.02	0.02	0.02	225,43,43	0.11	225	0.87	0.06	0.94
	0.01	8.29e-03	0.0	210,45,0	0.02	4.55e-03	4.55e-03	225,42,42			1.00	0.04	0.96
2821	0.05	0.04	0.0	45,44,0	0.02	0.03	0.04	225,42,44	0.11	225	0.87	0.06	0.94
	0.11	0.09	0.0	228,225,0	0.02	5.61e-03	5.61e-03	225,42,42			1.00	0.04	0.96
2822	0.02	0.01	0.0	45,44,0	0.02	0.03	0.03	225,42,44	0.11	225	0.87	0.06	0.94
	0.01	0.01	0.0	45,44,0	0.02	4.55e-03	4.55e-03	225,42,42			1.00	0.04	0.96
2823	0.05	0.04	0.0	45,44,0	0.01	0.03	0.04	225,42,44	0.08	225	0.87	0.06	0.94
	0.11	0.09	0.0	228,225,0	0.01	5.61e-03	5.61e-03	225,42,42			1.00	0.04	0.96
2824	0.02	0.01	0.0	45,44,0	0.01	0.03	0.03	225,42,44	0.08	225	0.87	0.06	0.94
	0.01	0.01	0.0	45,44,0	0.01	3.52e-03	3.52e-03	225,42,42			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.11	0.09	0.0	0.06	0.03	0.04	0.19

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
84	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.51	5.8	193	0.25	2.8	193	0.72	-885.0	-1.431e+05	225

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1494	0.07	0.10	0.0	228,225,0	0.01	9.62e-03	0.02225,212,209		0.08	225	0.87	0.06	0.94
	0.01	4.32e-03	0.0	213,216,0	0.01	2.02e-04	2.02e-04225,221,221				1.00	0.04	0.96
1495	0.09	0.10	0.0	225,225,0	0.01	0.01	0.02225,209,209		0.08	225	0.87	0.06	0.94
	0.02	7.50e-03	0.0	226,227,0	0.01	2.48e-04	2.48e-04225,240,240				1.00	0.04	0.96
1497	0.09	0.09	0.0	225,228,0	9.35e-03	0.01	0.02225,209,212		0.07	225	0.87	0.06	0.94
	0.02	7.50e-03	0.0	226,227,0	9.35e-03	2.48e-04	2.48e-04225,240,240				1.00	0.04	0.96
2873	0.07	0.10	0.0	228,225,0	0.07	9.62e-03	0.02225,212,213		0.20	225	0.87	0.06	0.94
	0.01	4.32e-03	0.0	213,216,0	0.07	2.02e-04	2.02e-04225,221,221				1.00	0.04	0.96
2874	0.09	0.10	0.0	225,225,0	0.08	0.01	0.02225,209,213		0.21	225	0.87	0.06	0.94
	0.02	7.50e-03	0.0	226,227,0	0.08	2.48e-04	2.48e-04225,240,240				1.00	0.04	0.96
2875	0.05	0.09	0.0	236,233,0	0.07	7.71e-03	0.02225,211,213		0.20	225	0.87	0.06	0.94
	8.05e-03	2.50e-03	0.0	225,228,0	0.07	1.08e-04	1.08e-04225,217,217				1.00	0.04	0.96
2876	0.07	0.09	0.0	233,233,0	0.08	7.84e-03	0.02225,209,213		0.21	225	0.87	0.06	0.94
	0.01	3.70e-03	0.0	226,227,0	0.08	1.14e-04	1.14e-04225,211,211				1.00	0.04	0.96
2877	0.05	0.06	0.0	225,105,0	0.07	5.12e-03	0.02225,211,216		0.20	225	0.87	0.06	0.94
	5.55e-03	2.16e-03	0.0	236,233,0	0.07	7.22e-04	7.22e-04225,211,211				1.00	0.04	0.96
2878	0.05	0.06	0.0	225,105,0	0.07	5.35e-03	0.02225,209,213		0.21	225	0.87	0.06	0.94
	5.55e-03	2.88e-03	0.0	236,228,0	0.07	7.22e-04	7.22e-04225,211,211				1.00	0.04	0.96
2879	0.09	0.09	0.0	225,228,0	0.08	0.01	0.02225,209,216		0.21	225	0.87	0.06	0.94
	0.02	7.50e-03	0.0	226,227,0	0.08	2.48e-04	2.48e-04225,240,240				1.00	0.04	0.96
2880	0.07	0.07	0.0	233,236,0	0.08	7.84e-03	0.02225,209,216		0.21	225	0.87	0.06	0.94
	0.01	3.70e-03	0.0	226,227,0	0.08	1.14e-04	1.14e-04225,211,211				1.00	0.04	0.96
2881	0.04	0.06	0.0	216,231,0	0.07	5.35e-03	0.02225,209,213		0.21	225	0.87	0.06	0.94
	5.39e-03	2.88e-03	0.0	225,228,0	0.07	6.66e-04	6.66e-04225,210,210				1.00	0.04	0.96
2882	0.11	0.11	0.0	225,228,0	0.07	2.49e-03	0.02225,211,212		0.20	225	0.87	0.06	0.94
	0.03	6.24e-03	0.0	233,236,0	0.07	3.69e-03	3.69e-03225,210,210				1.00	0.04	0.96
2883	0.11	0.11	0.0	225,231,0	0.07	2.82e-03	0.02225,209,213		0.21	225	0.87	0.06	0.94
	0.03	9.58e-03	0.0	233,225,0	0.07	3.85e-03	3.85e-03225,210,210				1.00	0.04	0.96
2884	0.11	0.11	0.0	225,228,0	0.07	0.01	0.03225,209,216		0.20	225	0.87	0.06	0.94
	0.03	6.24e-03	0.0	213,236,0	0.07	3.69e-03	3.69e-03225,210,210				1.00	0.04	0.96
2885	0.11	0.11	0.0	225,231,0	0.07	0.01	0.03225,210,213		0.20	225	0.87	0.06	0.94
	0.04	0.01	0.0	230,231,0	0.07	3.92e-03	3.92e-03225,210,210				1.00	0.04	0.96
2886	0.08	0.11	0.0	230,231,0	0.07	2.82e-03	0.02225,209,213		0.21	225	0.87	0.06	0.94
	0.03	9.58e-03	0.0	228,225,0	0.07	3.85e-03	3.85e-03225,210,210				1.00	0.04	0.96
2887	0.08	0.11	0.0	230,231,0	0.07	0.01	0.03225,210,213		0.20	225	0.87	0.06	0.94
	0.04	0.01	0.0	230,231,0	0.07	3.92e-03	3.92e-03225,210,210				1.00	0.04	0.96
2888	0.07	0.07	0.0	233,236,0	0.02	0.02	0.03225,209,216		0.09	225	0.87	0.06	0.94
	0.03	0.01	0.0	213,227,0	0.02	3.57e-03	3.57e-03225,210,210				1.00	0.04	0.96
2889	0.07	0.07	0.0	233,231,0	0.02	0.02	0.03225,209,213		0.09	225	0.87	0.06	0.94
	0.04	0.01	0.0	230,227,0	0.02	3.92e-03	3.92e-03225,210,210				1.00	0.04	0.96
2890	0.02	0.02	0.0	225,228,0	4.33e-03	0.02	0.02105,209,212		0.05	105	0.87	0.06	0.94
	0.03	0.01	0.0	226,227,0	4.33e-03	1.21e-03	1.21e-03105,210,210				1.00	0.04	0.96
2891	0.02	0.03	0.0	225,105,0	4.33e-03	0.02	0.02105,209,212		0.05	105	0.87	0.06	0.94
	0.03	0.01	0.0	226,227,0	4.33e-03	1.21e-03	1.21e-03105,210,210				1.00	0.04	0.96
2892	0.05	0.07	0.0	230,231,0	0.01	0.01	0.03228,212,213		0.08	228	0.87	0.06	0.94
	0.04	0.01	0.0	230,231,0	0.01	3.92e-03	3.92e-03228,210,210				1.00	0.04	0.96
2893	8.52e-03	0.03	0.0	228,105,0	3.85e-03	0.01	0.02228,212,209		0.05	228	0.87	0.06	0.94
	0.02	5.63e-03	0.0	210,211,0	3.85e-03	6.98e-04	6.98e-04228,214,214				1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.11	0.11	0.0	0.08	0.02	0.03	0.21

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
85	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.34	-20.3	196	0.24	-14.0	182	0.14	-1703.3	2.321e+05	210

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1525	0.02	0.02	0.0	214,215,0	0.05	7.73e-03	0.01	228,67,68	0.17	228	0.87	0.06	0.94
	1.93e-03	3.16e-03	0.0	69,68,0	0.05	3.03e-03	3.03e-03	228,68,68			1.00	0.04	0.96
1542	0.04	0.05	0.0	225,228,0	0.05	0.02	0.03	228,67,68	0.17	228	0.87	0.06	0.94
	0.01	8.32e-03	0.0	212,209,0	0.05	5.49e-03	5.49e-03	228,70,70			1.00	0.04	0.96
1544	0.04	0.05	0.0	227,226,0	0.03	0.03	0.04	212,70,68	0.14	212	0.87	0.06	0.94
	0.01	8.32e-03	0.0	212,209,0	0.03	5.49e-03	5.49e-03	212,70,70			1.00	0.04	0.96
1546	0.04	0.05	0.0	227,226,0	3.01e-04	0.03	0.04	228,70,68	0.01	228	0.87	0.06	0.94
	7.46e-03	8.28e-03	0.0	215,214,0	2.71e-04	3.43e-03	3.43e-03	228,70,70			1.00	0.04	0.96
2903	0.02	0.03	0.0	214,215,0	0.05	7.73e-03	0.01	228,67,68	0.17	228	0.87	0.06	0.94
	6.72e-03	5.74e-03	0.0	69,70,0	0.05	7.26e-03	7.26e-03	228,70,70			1.00	0.04	0.96
2904	0.02	0.03	0.0	234,215,0	0.04	5.50e-03	0.01	228,228,231	0.16	228	0.87	0.06	0.94
	9.40e-03	7.27e-03	0.0	70,66,0	0.04	9.59e-03	9.59e-03	228,70,70			1.00	0.04	0.96
2905	0.03	0.03	0.0	238,239,0	0.04	9.30e-03	0.02	228,228,225	0.15	228	0.87	0.06	0.94
	0.01	8.07e-03	0.0	68,68,0	0.04	0.01	0.01	228,66,66			1.00	0.04	0.96
2912	0.04	0.04	0.0	230,231,0	0.04	9.30e-03	0.02	228,228,225	0.15	228	0.87	0.06	0.94
	0.02	0.01	0.0	228,225,0	0.04	0.01	0.01	228,66,66			1.00	0.04	0.96
2913	0.04	0.04	0.0	230,231,0	0.03	0.01	0.02	228,228,225	0.13	228	0.87	0.06	0.94
	0.03	0.02	0.0	228,225,0	0.03	0.01	0.01	228,233,233			1.00	0.04	0.96
2920	0.04	0.03	0.0	230,231,0	9.19e-03	0.02	0.03	234,225,225	0.07	234	0.87	0.06	0.94
	0.03	0.02	0.0	228,225,0	9.18e-03	0.01	0.01	234,233,233			1.00	0.04	0.96
2921	0.01	0.01	0.0	230,231,0	8.38e-03	0.02	0.03	214,225,225	0.07	214	0.87	0.06	0.94
	9.20e-03	6.20e-03	0.0	228,225,0	8.38e-03	3.89e-03	3.89e-03	214,225,225			1.00	0.04	0.96
2922	0.04	0.05	0.0	225,228,0	0.05	0.02	0.03	228,67,68	0.17	228	0.87	0.06	0.94
	0.01	8.38e-03	0.0	212,66,0	0.05	7.26e-03	7.26e-03	228,70,70			1.00	0.04	0.96
2923	0.05	0.05	0.0	225,228,0	0.04	0.01	0.02	228,67,68	0.16	228	0.87	0.06	0.94
	0.01	0.01	0.0	70,66,0	0.04	9.59e-03	9.59e-03	228,70,70			1.00	0.04	0.96
2924	0.05	0.04	0.0	69,228,0	0.04	9.30e-03	0.02	228,228,68	0.15	228	0.87	0.06	0.94
	0.02	0.01	0.0	68,66,0	0.04	0.01	0.01	228,66,66			1.00	0.04	0.96
2925	0.05	0.05	0.0	69,226,0	0.03	0.03	0.04	212,70,68	0.14	212	0.87	0.06	0.94
	0.01	8.38e-03	0.0	212,66,0	0.03	5.49e-03	5.49e-03	212,70,70			1.00	0.04	0.96
2926	0.07	0.06	0.0	69,68,0	0.03	0.02	0.04	228,66,68	0.13	228	0.87	0.06	0.94
	0.01	0.01	0.0	70,66,0	0.03	3.13e-03	3.13e-03	228,70,70			1.00	0.04	0.96
2927	0.08	0.06	0.0	69,68,0	0.02	9.42e-03	0.03	228,68,68	0.12	228	0.87	0.06	0.94
	0.02	0.01	0.0	68,66,0	0.02	3.38e-03	3.38e-03	228,66,66			1.00	0.04	0.96
2928	0.05	0.05	0.0	69,226,0	2.05e-03	0.03	0.04	226,70,68	0.03	226	0.87	0.06	0.94
	7.46e-03	8.28e-03	0.0	215,214,0	2.02e-03	3.43e-03	3.43e-03	226,70,70			1.00	0.04	0.96
2929	0.07	0.06	0.0	69,68,0	2.76e-03	0.02	0.04	228,66,68	0.04	228	0.87	0.06	0.94
	6.98e-03	7.21e-03	0.0	228,234,0	2.76e-03	3.13e-03	3.13e-03	228,70,70			1.00	0.04	0.96
2930	0.08	0.06	0.0	69,68,0	4.08e-03	9.42e-03	0.03	228,68,68	0.05	228	0.87	0.06	0.94
	9.33e-03	5.80e-03	0.0	209,212,0	4.08e-03	3.38e-03	3.38e-03	228,66,66			1.00	0.04	0.96
2931	0.05	0.04	0.0	69,228,0	0.04	9.30e-03	0.02	228,228,67	0.15	228	0.87	0.06	0.94
	0.05	0.03	0.0	228,225,0	0.04	0.01	0.01	228,66,66			1.00	0.04	0.96
2932	0.05	0.04	0.0	225,231,0	0.03	0.01	0.02	228,67,225	0.13	228	0.87	0.06	0.94
	0.06	0.04	0.0	228,225,0	0.03	0.01	0.01	228,233,233			1.00	0.04	0.96
2933	0.08	0.06	0.0	69,68,0	0.02	0.01	0.04	228,66,66	0.11	228	0.87	0.06	0.94
	0.07	0.04	0.0	212,209,0	0.02	5.13e-03	5.13e-03	228,228,228			1.00	0.04	0.96
2934	0.07	0.05	0.0	72,65,0	0.02	0.02	0.04	228,66,66	0.10	228	0.87	0.06	0.94
	0.08	0.05	0.0	212,209,0	0.02	6.87e-03	6.87e-03	228,225,225			1.00	0.04	0.96
2935	0.08	0.06	0.0	69,68,0	0.01	0.01	0.04	228,66,66	0.08	228	0.87	0.06	0.94
	0.07	0.04	0.0	212,209,0	0.01	5.13e-03	5.13e-03	228,228,228			1.00	0.04	0.96
2936	0.07	0.05	0.0	72,65,0	0.01	0.02	0.04	228,66,66	0.08	228	0.87	0.06	0.94
	0.08	0.05	0.0	212,209,0	0.01	6.87e-03	6.87e-03	228,225,225			1.00	0.04	0.96
2937	0.04	0.03	0.0	230,231,0	0.01	0.02	0.03	214,225,225	0.09	214	0.87	0.06	0.94
	0.06	0.04	0.0	228,225,0	0.01	0.01	0.01	214,233,233			1.00	0.04	0.96
2938	0.01	0.01	0.0	230,231,0	0.01	0.02	0.03	214,225,225	0.09	214	0.87	0.06	0.94
	0.02	0.01	0.0	238,239,0	0.01	4.26e-03	4.26e-03	214,70,70			1.00	0.04	0.96
2939	0.05	0.04	0.0	72,65,0	0.01	0.03	0.04	214,70,66	0.09	214	0.87	0.06	0.94
	0.08	0.05	0.0	212,209,0	0.01	6.87e-03	6.87e-03	214,225,225			1.00	0.04	0.96
2940	0.02	0.01	0.0	72,65,0	0.01	0.03	0.03	214,70,66	0.09	214	0.87	0.06	0.94
	0.02	0.01	0.0	238,239,0	0.01	4.42e-03	4.42e-03	214,70,70			1.00	0.04	0.96
2941	0.05	0.04	0.0	72,65,0	7.68e-03	0.03	0.04	212,70,66	0.07	212	0.87	0.06	0.94
	0.08	0.05	0.0	212,209,0	7.68e-03	6.87e-03	6.87e-03	212,225,225			1.00	0.04	0.96
2942	0.02	0.01	0.0	72,65,0	7.68e-03	0.03	0.03	212,70,66	0.07	212	0.87	0.06	0.94
	0.02	9.39e-03	0.0	238,239,0	7.68e-03	4.42e-03	4.42e-03	212,70,70			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.08	0.06	0.0	0.05	0.03	0.04	0.17

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
86	Legno XLAM n. 1 verticali -legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.29	-39.0	192	0.27	35.7	189	0.13	3315.7	-6.366e+05	237

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
1356	0.02	0.03	0.0	224,221,0	0.03	5.75e-03	8.65e-03	221,236,233	0.14	221	0.87	0.06	0.94
	0.03	0.0	0.0	99,0,0	0.03	6.44e-04	6.44e-04	221,211,211			1.00	0.04	0.96
1369	0.08	0.02	0.0	99,108,0	0.05	0.03	0.0399	100,100,100	0.17	99	0.87	0.06	0.94
	0.12	0.02	0.0	99,224,0	0.05	0.01	0.0199	100,100,100			1.00	0.04	0.96
1370	0.08	0.02	0.0	99,108,0	7.73e-03	0.03	0.03224	100,100,100	0.07	224	0.87	0.06	0.94
	0.08	0.02	0.0	99,224,0	7.69e-03	0.01	0.01224	100,100,100			1.00	0.04	0.96
1373	0.02	0.03	0.0	224,221,0	0.03	6.46e-03	8.65e-03	221,236,233	0.14	221	0.87	0.06	0.94
	0.04	0.0	0.0	99,0,0	0.03	8.36e-04	8.36e-04	221,230,230			1.00	0.04	0.96
1376	0.02	2.08e-03	0.0	99,237,0	0.02	7.05e-03	7.05e-03	224,236,236	0.12	224	0.87	0.06	0.94
	0.06	0.0	0.0	99,0,0	0.02	1.37e-03	1.37e-03	224,100,100			1.00	0.04	0.96
1379	0.02	1.17e-03	0.0	99,233,0	0.03	7.06e-03	7.06e-03	224,236,236	0.13	224	0.87	0.06	0.94
	0.09	0.0	0.0	99,0,0	0.03	3.36e-03	3.36e-03	224,100,100			1.00	0.04	0.96
1382	0.01	0.01	0.0	99,224,0	0.05	7.06e-03	7.84e-03	99,236,239	0.17	99	0.87	0.06	0.94
	0.12	7.26e-03	0.0	99,224,0	0.05	5.44e-03	5.44e-03	99,100,100			1.00	0.04	0.96
2714	0.02	0.03	0.0	240,221,0	0.04	5.75e-03	8.65e-03	221,236,233	0.15	221	0.87	0.06	0.94
	0.05	0.0	0.0	99,0,0	0.04	1.92e-03	1.92e-03	221,230,230			1.00	0.04	0.96
2715	0.02	0.03	0.0	240,237,0	0.04	3.41e-03	8.41e-03	221,236,233	0.16	221	0.87	0.06	0.94
	0.05	5.41e-03	0.0	99,46,0	0.04	2.90e-03	2.90e-03	221,226,226			1.00	0.04	0.96
2716	0.02	0.03	0.0	240,237,0	0.04	1.29e-03	7.27e-03	221,233,233	0.16	221	0.87	0.06	0.94
	0.02	8.64e-03	0.0	27,46,0	0.04	3.44e-03	3.44e-03	221,226,226			1.00	0.04	0.96
2733	0.02	0.02	0.0	240,237,0	0.04	1.94e-03	7.17e-03	221,236,233	0.15	221	0.87	0.06	0.94
	0.01	0.01	0.0	43,42,0	0.04	3.44e-03	3.44e-03	221,226,226			1.00	0.04	0.96
2734	0.02	0.02	0.0	240,237,0	0.04	3.32e-03	7.56e-03	221,233,233	0.14	221	0.87	0.06	0.94
	8.21e-03	0.01	0.0	47,33,0	0.04	3.15e-03	3.15e-03	221,227,227			1.00	0.04	0.96
2751	0.01	0.02	0.0	240,237,0	0.03	5.43e-03	7.66e-03	221,233,233	0.13	221	0.87	0.06	0.94
	6.71e-03	0.01	0.0	224,33,0	0.03	2.21e-03	2.21e-03	221,227,227			1.00	0.04	0.96
2752	4.33e-03	0.01	0.0	240,105,0	0.02	5.43e-03	7.66e-03	221,233,233	0.12	221	0.87	0.06	0.94
	2.62e-03	4.82e-03	0.0	224,35,0	0.02	3.00e-04	3.00e-04	221,231,231			1.00	0.04	0.96
2754	0.08	0.04	0.0	99,105,0	0.06	0.03	0.03221	100,100,100	0.19	221	0.87	0.06	0.94
	0.08	0.02	0.0	99,224,0	0.06	0.01	0.01221	100,100,100			1.00	0.04	0.96
2756	0.05	0.04	0.0	237,105,0	0.06	0.01	0.02221	100,107,107	0.19	221	0.87	0.06	0.94
	0.08	0.02	0.0	99,224,0	0.06	0.01	0.01221	100,100,100			1.00	0.04	0.96
2758	0.04	0.04	0.0	237,105,0	0.02	5.78e-03	0.01221	100,236,236	0.12	221	0.87	0.06	0.94
	0.01	2.93e-03	0.0	240,234,0	0.02	4.92e-03	4.92e-03	221,238,238			1.00	0.04	0.96
2760	0.03	0.05	0.0	233,105,0	0.02	5.40e-03	0.01221	236,236,236	0.11	221	0.87	0.06	0.94
	6.32e-03	6.12e-03	0.0	235,105,0	0.02	3.10e-03	3.10e-03	221,236,236			1.00	0.04	0.96
2762	0.03	0.06	0.0	233,105,0	0.02	0.01	0.02221	239,107,107	0.12	221	0.87	0.06	0.94
	0.03	0.03	0.0	224,107,0	0.02	9.59e-03	9.59e-03	221,107,107			1.00	0.04	0.96
2764	8.71e-03	0.06	0.0	233,105,0	0.02	0.02	0.03221	107,107,107	0.12	221	0.87	0.06	0.94
	0.03	0.03	0.0	224,107,0	0.02	9.59e-03	9.59e-03	221,107,107			1.00	0.04	0.96
2765	1.48e-03	0.06	0.0	239,105,0	0.01	0.02	0.03221	107,107,107	0.09	221	0.87	0.06	0.94
	0.03	0.03	0.0	224,107,0	0.01	9.06e-03	9.06e-03	221,107,107			1.00	0.04	0.96
2766	0.0	0.06	0.0	0,105,0	3.66e-03	0.02	0.03221	107,107,107	0.05	221	0.0	0.0	0.0
	0.03	0.03	0.0	224,107,0	3.66e-03	9.06e-03	9.06e-03	221,107,107			1.00	0.04	0.96
2769	4.33e-03	0.01	0.0	240,105,0	0.03	6.51e-03	8.21e-03	221,233,233	0.12	221	0.87	0.06	0.94
	3.77e-03	7.91e-03	0.0	224,107,0	0.03	4.44e-04	4.44e-04	221,33,33			1.00	0.04	0.96
2772	4.11e-03	9.49e-03	0.0	240,105,0	0.03	6.55e-03	8.21e-03	221,235,233	0.12	221	0.87	0.06	0.94
	5.32e-03	0.01	0.0	224,107,0	0.03	1.43e-03	1.43e-03	221,107,107			1.00	0.04	0.96
2775	4.31e-03	5.62e-03	0.0	237,105,0	0.02	7.26e-03	8.89e-03	221,235,235	0.11	221	0.87	0.06	0.94
	0.01	0.02	0.0	224,107,0	0.02	3.45e-03	3.45e-03	221,107,107			1.00	0.04	0.96
2778	4.31e-03	0.02	0.0	237,105,0	0.02	7.74e-03	0.01221	238,238,238	0.10	221	0.87	0.06	0.94
	0.03	0.03	0.0	224,107,0	0.02	4.92e-03	4.92e-03	221,107,107			1.00	0.04	0.96
3067	0.02	0.03	0.0	240,221,0	0.04	6.46e-03	8.65e-03	221,236,233	0.15	221	0.87	0.06	0.94
	0.06	0.0	0.0	99,0,0	0.04	1.92e-03	1.92e-03	221,230,230			1.00	0.04	0.96
3068	0.02	0.03	0.0	240,237,0	0.04	4.00e-03	8.41e-03	221,236,233	0.16	221	0.87	0.06	0.94
	0.06	5.41e-03	0.0	99,46,0	0.04	2.90e-03	2.90e-03	221,226,226			1.00	0.04	0.96
3069	0.02	0.03	0.0	240,237,0	0.04	1.80e-03	7.27e-03	221,237,233	0.16	221	0.87	0.06	0.94
	0.03	8.64e-03	0.0	99,46,0	0.04	3.44e-03	3.44e-03	221,226,226			1.00	0.04	0.96
3070	0.02	0.02	0.0	240,237,0	0.04	2.16e-03	7.17e-03	221,236,233	0.15	221	0.87	0.06	0.94
	0.01	0.01	0.0	43,42,0	0.04	3.44e-03	3.44e-03	221,226,226			1.00	0.04	0.96
3071	0.02	0.02	0.0	236,237,0	0.04	4.00e-03	7.93e-03	221,233,233	0.15	221	0.87	0.06	0.94
	8.21e-03	0.01	0.0	47,105,0	0.04	3.15e-03	3.15e-03	221,227,227			1.00	0.04	0.96
3072	0.01	0.02	0.0	236,237,0	0.03	6.51e-03	8.21e-03	221,233,233	0.14	221	0.87	0.06	0.94
	8.11e-03	0.01	0.0	224,105,0	0.03	2.21e-03	2.21e-03	221,227,227			1.00	0.04	0.96
3073	0.02	8.32e-03	0.0	236,233,0	0.04	7.05e-03	7.54e-03	221,236,233	0.15	221	0.87	0.06	0.94
	0.08	0.0	0.0	99,0,0	0.04	2.50e-03	2.50e-03	221,100,100			1.00	0.04	0.96
3074	0.02	0.01	0.0	236,233,0	0.04	4.42e-03	7.54e-03	221,233,233	0.16	221	0.87	0.06	0.94
	0.08	7.24e-03	0.0	99,236,0	0.04	2.50e-03	2.50e-03	221,100,100			1.00	0.04	0.96

3075	0.02	0.01	0.0	236,233,0	0.04	2.21e-03	6.79e-03	221,235,233	0.16	221	0.87	0.06	0.94
	0.03	7.24e-03	0.0	99,236,0	0.04	1.94e-03	1.94e-03	221,230,230			1.00	0.04	0.96
3076	0.02	0.01	0.0	236,233,0	0.04	2.31e-03	7.07e-03	221,236,233	0.15	221	0.87	0.06	0.94
	0.01	8.42e-03	0.0	237,105,0	0.04	1.95e-03	1.95e-03	221,44,44			1.00	0.04	0.96
3077	0.02	0.01	0.0	236,233,0	0.04	4.38e-03	7.93e-03	221,233,233	0.15	221	0.87	0.06	0.94
	8.11e-03	0.02	0.0	224,105,0	0.04	2.22e-03	2.22e-03	221,35,35			1.00	0.04	0.96
3078	0.01	0.01	0.0	240,233,0	0.03	6.55e-03	8.21e-03	221,235,233	0.14	221	0.87	0.06	0.94
	8.11e-03	0.02	0.0	224,105,0	0.03	2.22e-03	2.22e-03	221,35,35			1.00	0.04	0.96
3079	0.02	7.24e-03	0.0	236,233,0	0.04	7.06e-03	7.06e-03	221,236,236	0.15	221	0.87	0.06	0.94
	0.11	4.77e-03	0.0	99,240,0	0.04	4.14e-03	4.14e-03	221,100,100			1.00	0.04	0.96
3080	0.02	9.72e-03	0.0	236,239,0	0.04	4.42e-03	4.42e-03	221,233,233	0.15	221	0.87	0.06	0.94
	0.11	9.13e-03	0.0	99,240,0	0.04	4.14e-03	4.14e-03	221,100,100			1.00	0.04	0.96
3081	0.02	0.01	0.0	236,233,0	0.04	2.21e-03	2.21e-03	221,235,235	0.15	221	0.87	0.06	0.94
	0.03	9.13e-03	0.0	99,240,0	0.04	1.69e-03	1.69e-03	221,236,236			1.00	0.04	0.96
3082	0.02	0.01	0.0	236,233,0	0.04	2.31e-03	2.31e-03	221,236,236	0.15	221	0.87	0.06	0.94
	0.01	0.01	0.0	235,105,0	0.04	1.76e-03	1.76e-03	221,44,44			1.00	0.04	0.96
3083	0.02	0.01	0.0	236,233,0	0.03	4.38e-03	7.77e-03	221,233,236	0.14	221	0.87	0.06	0.94
	0.02	0.03	0.0	224,107,0	0.03	3.39e-03	3.39e-03	221,107,107			1.00	0.04	0.96
3084	0.01	8.13e-03	0.0	237,240,0	0.03	7.26e-03	8.89e-03	221,235,235	0.14	221	0.87	0.06	0.94
	0.02	0.03	0.0	224,107,0	0.03	3.45e-03	3.45e-03	221,107,107			1.00	0.04	0.96
3085	0.01	0.03	0.0	233,107,0	0.05	7.06e-03	8.95e-03	99,236,239	0.17	99	0.87	0.06	0.94
	0.14	9.46e-03	0.0	99,240,0	0.05	5.44e-03	5.44e-03	99,100,100			1.00	0.04	0.96
3086	0.02	0.03	0.0	233,107,0	0.04	4.40e-03	8.95e-03	221,239,239	0.15	221	0.87	0.06	0.94
	0.14	9.46e-03	0.0	99,240,0	0.04	4.14e-03	4.14e-03	221,100,100			1.00	0.04	0.96
3087	0.02	0.03	0.0	233,107,0	0.03	3.47e-03	8.33e-03	221,236,240	0.14	221	0.87	0.06	0.94
	0.03	9.13e-03	0.0	99,240,0	0.03	2.84e-03	2.84e-03	221,100,100			1.00	0.04	0.96
3088	0.02	0.02	0.0	233,236,0	0.03	2.75e-03	8.18e-03	221,239,236	0.14	221	0.87	0.06	0.94
	0.01	0.01	0.0	235,105,0	0.03	3.28e-03	3.28e-03	221,227,227			1.00	0.04	0.96
3089	0.02	0.02	0.0	233,236,0	0.03	4.22e-03	8.91e-03	221,236,236	0.14	221	0.87	0.06	0.94
	0.03	0.04	0.0	224,107,0	0.03	3.39e-03	3.39e-03	221,107,107			1.00	0.04	0.96
3090	0.01	0.02	0.0	237,107,0	0.03	7.74e-03	0.01	221,238,238	0.13	221	0.87	0.06	0.94
	0.03	0.04	0.0	224,107,0	0.03	4.92e-03	4.92e-03	221,107,107			1.00	0.04	0.96
3091	0.08	0.04	0.0	99,105,0	0.06	0.03	0.03	221,100,100	0.19	221	0.87	0.06	0.94
	0.14	0.02	0.0	99,224,0	0.06	0.01	0.01	221,100,100			1.00	0.04	0.96
3092	0.05	0.04	0.0	237,105,0	0.06	0.01	0.02	221,100,107	0.19	221	0.87	0.06	0.94
	0.14	0.02	0.0	99,224,0	0.06	0.01	0.01	221,100,100			1.00	0.04	0.96
3093	0.04	0.04	0.0	237,105,0	0.03	5.78e-03	0.01	221,100,236	0.13	221	0.87	0.06	0.94
	0.03	6.54e-03	0.0	99,234,0	0.03	4.92e-03	4.92e-03	221,238,238			1.00	0.04	0.96
3094	0.03	0.05	0.0	233,105,0	0.03	5.40e-03	0.01	221,236,236	0.13	221	0.87	0.06	0.94
	0.01	8.72e-03	0.0	235,105,0	0.03	3.28e-03	3.28e-03	221,227,227			1.00	0.04	0.96
3095	0.03	0.06	0.0	233,105,0	0.03	0.01	0.02	221,239,107	0.13	221	0.87	0.06	0.94
	0.03	0.04	0.0	224,107,0	0.03	9.59e-03	9.59e-03	221,107,107			1.00	0.04	0.96
3096	8.71e-03	0.06	0.0	233,105,0	0.03	0.02	0.03	221,107,107	0.13	221	0.87	0.06	0.94
	0.03	0.04	0.0	224,107,0	0.03	9.59e-03	9.59e-03	221,107,107			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.14	0.06	0.0	0.06	0.03	0.03	0.19

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
87	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
152	0.02	0.01	0.0	214,215,0	0.04	4.56e-04	2.05e-03	212,68,215	0.14	212	0.36	0.13	0.87
	0.06	0.05	0.0	212,209,0	0.04	3.29e-03	3.29e-03	212,68,68			1.00	0.04	0.96
154	0.02	0.01	0.0	214,215,0	0.15	8.35e-04	2.57e-03	212,235,235	0.30	212	0.36	0.13	0.87
	0.06	0.05	0.0	212,209,0	0.15	3.29e-03	3.29e-03	212,68,68			1.00	0.04	0.96
193	0.02	0.01	0.0	212,209,0	0.15	8.56e-04	2.64e-03	209,234,233	0.29	209	0.36	0.13	0.87
	0.06	0.04	0.0	212,212,0	0.15	5.44e-03	5.44e-03	209,70,70			1.00	0.04	0.96
194	0.02	0.01	0.0	212,209,0	0.03	4.68e-04	1.78e-03	209,69,209	0.14	209	0.36	0.13	0.87
	0.06	0.04	0.0	209,212,0	0.03	5.44e-03	5.44e-03	209,70,70			1.00	0.04	0.96
1587	0.06	0.04	0.0	209,212,0	0.06	3.36e-03	7.08e-03	209,235,240	0.18	209	0.36	0.13	0.87
	0.10	0.06	0.0	209,212,0	0.06	5.44e-03	5.44e-03	209,70,70			1.00	0.04	0.96
1588	0.06	0.04	0.0	209,212,0	0.06	3.36e-03	7.08e-03	209,235,240	0.18	209	0.36	0.13	0.87
	0.10	0.06	0.0	209,212,0	0.06	5.02e-03	5.02e-03	209,67,67			1.00	0.04	0.96
1614	0.10	0.07	0.0	212,209,0	0.05	3.43e-03	0.01	209,236,213	0.18	212	0.36	0.13	0.87
	0.09	0.07	0.0	212,209,0	0.05	4.16e-03	4.16e-03	212,68,68			1.00	0.04	0.96

1616	0.10	0.07	0.0 212,209,0	0.05	3.43e-03	0.01209,236,213	0.18	212	0.36	0.13	0.87
	0.09	0.07	0.0 212,209,0	0.05	4.16e-03	4.16e-03 212,68,68			1.00	0.04	0.96
3099	0.06	0.04	0.0 209,212,0	0.15	3.36e-03	8.85e-03209,235,235	0.29	209	0.36	0.13	0.87
	0.10	0.06	0.0 209,212,0	0.15	5.44e-03	5.44e-03 209,70,70			1.00	0.04	0.96
3100	0.06	0.04	0.0 209,212,0	0.08	3.36e-03	8.85e-03209,235,235	0.22	209	0.36	0.13	0.87
	0.10	0.06	0.0 209,212,0	0.08	5.02e-03	5.02e-03 209,67,67			1.00	0.04	0.96
3101	0.10	0.07	0.0 212,209,0	0.15	3.43e-03	0.01212,236,213	0.30	212	0.36	0.13	0.87
	0.09	0.07	0.0 212,209,0	0.15	4.16e-03	4.16e-03 212,68,68			1.00	0.04	0.96
3102	0.10	0.07	0.0 212,209,0	0.08	3.43e-03	0.01212,236,213	0.22	212	0.36	0.13	0.87
	0.09	0.07	0.0 212,209,0	0.08	4.16e-03	4.16e-03 212,68,68			1.00	0.04	0.96
3103	0.01	9.26e-03	0.0 210,211,0	0.15	8.35e-04	2.90e-03212,235,235	0.30	212	0.36	0.13	0.87
	0.06	0.04	0.0 209,212,0	0.15	6.88e-04	6.88e-04212,236,236			1.00	0.04	0.96
3104	0.07	0.05	0.0 212,209,0	0.15	1.76e-03	0.01212,236,233	0.30	212	0.36	0.13	0.87
	0.06	0.04	0.0 209,212,0	0.15	6.88e-04	6.88e-04212,236,236			1.00	0.04	0.96
3105	9.03e-03	6.61e-03	0.0 226,227,0	0.15	4.40e-04	2.90e-03212,230,235	0.30	212	0.36	0.13	0.87
	8.82e-03	5.69e-03	0.0 209,209,0	0.15	6.88e-04	6.88e-04212,236,236			1.00	0.04	0.96
3106	0.04	0.03	0.0 212,209,0	0.15	6.61e-04	9.12e-03212,233,233	0.30	212	0.36	0.13	0.87
	8.82e-03	5.69e-03	0.0 209,209,0	0.15	6.88e-04	6.88e-04212,236,236			1.00	0.04	0.96
3107	0.01	8.04e-03	0.0 212,209,0	0.15	8.56e-04	2.86e-03209,234,235	0.29	209	0.36	0.13	0.87
	0.06	0.04	0.0 212,209,0	0.15	7.79e-04	7.79e-04 209,70,70			1.00	0.04	0.96
3108	0.03	0.02	0.0 214,215,0	0.15	1.79e-03	8.85e-03209,235,235	0.29	209	0.36	0.13	0.87
	0.06	0.04	0.0 212,209,0	0.15	7.79e-04	7.79e-04 209,70,70			1.00	0.04	0.96
3109	0.07	0.05	0.0 212,209,0	0.09	1.76e-03	0.01212,236,233	0.24	212	0.36	0.13	0.87
	0.03	0.02	0.0 209,212,0	0.09	2.11e-04	2.11e-04212,228,228			1.00	0.04	0.96
3110	0.04	0.03	0.0 212,209,0	0.09	6.61e-04	9.12e-03212,233,233	0.24	212	0.36	0.13	0.87
	6.93e-03	4.49e-03	0.0 209,212,0	0.09	2.31e-04	2.31e-04 212,70,70			1.00	0.04	0.96
3111	0.03	0.02	0.0 214,215,0	0.09	1.79e-03	8.85e-03212,235,235	0.23	212	0.36	0.13	0.87
	0.04	0.02	0.0 212,209,0	0.09	2.31e-04	2.31e-04 212,70,70			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.10	0.07	0.0	0.15	5.44e-03	0.01	0.30

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
88	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2997	0.03	0.02	0.0 228,225,0		0.04	6.61e-03	0.01209,236,233		0.15	209	0.33	0.14	0.86
	0.03	0.02	0.0 212,209,0		0.04	7.08e-03	7.08e-03209,236,236				1.00	0.04	0.96
3008	0.03	0.02	0.0 228,225,0		0.05	6.61e-03	0.01209,236,233		0.17	209	0.33	0.14	0.86
	0.03	0.02	0.0 212,209,0		0.05	8.12e-03	8.12e-03 209,68,68				1.00	0.04	0.96
3009	0.03	0.02	0.0 214,215,0		0.05	1.89e-03	3.72e-03209,235,235		0.17	209	0.33	0.14	0.86
	0.02	0.02	0.0 215,214,0		0.05	8.12e-03	8.12e-03 209,68,68				1.00	0.04	0.96
3027	0.08	0.06	0.0 209,212,0		0.05	6.48e-03	0.01212,235,240		0.16	212	0.33	0.14	0.86
	0.03	0.02	0.0 209,212,0		0.05	6.86e-03	6.86e-03212,235,235				1.00	0.04	0.96
3035	0.08	0.06	0.0 209,212,0		0.05	6.48e-03	0.01212,235,240		0.16	212	0.33	0.14	0.86
	0.03	0.02	0.0 209,212,0		0.05	6.86e-03	6.86e-03212,235,235				1.00	0.04	0.96
3037	0.01	0.01	0.0 234,235,0		0.04	1.94e-03	3.51e-03212,233,233		0.15	212	0.33	0.14	0.86
	0.03	0.02	0.0 209,212,0		0.04	6.86e-03	6.86e-03212,233,233				1.00	0.04	0.96
3112	0.08	0.06	0.0 209,212,0		0.05	6.48e-03	0.02212,235,240		0.16	212	0.33	0.14	0.86
	0.03	0.02	0.0 209,212,0		0.05	6.86e-03	6.86e-03212,235,235				1.00	0.04	0.96
3113	0.08	0.06	0.0 209,212,0		0.05	6.48e-03	0.02212,235,240		0.17	212	0.33	0.14	0.86
	0.03	0.02	0.0 209,212,0		0.05	6.86e-03	6.86e-03212,235,235				1.00	0.04	0.96
3114	0.06	0.04	0.0 209,212,0		0.03	3.37e-03	0.02212,235,239		0.14	212	0.33	0.14	0.86
	4.89e-03	3.46e-03	0.0 212,209,0		0.03	2.75e-04	2.75e-04212,236,236				1.00	0.04	0.96
3115	0.06	0.04	0.0 209,212,0		0.05	3.37e-03	0.02212,235,239		0.17	212	0.33	0.14	0.86
	4.89e-03	3.46e-03	0.0 212,209,0		0.05	1.93e-03	1.93e-03212,235,235				1.00	0.04	0.96
3116	0.04	0.03	0.0 209,212,0		0.03	1.25e-03	0.02212,236,239		0.13	212	0.33	0.14	0.86
	3.49e-03	2.30e-03	0.0 209,212,0		0.03	2.93e-04	2.93e-04212,236,236				1.00	0.04	0.96
3117	0.04	0.03	0.0 209,212,0		0.05	1.25e-03	0.02209,236,239		0.17	209	0.33	0.14	0.86
	3.49e-03	2.30e-03	0.0 209,212,0		0.05	1.40e-03	1.40e-03209,236,236				1.00	0.04	0.96
3118	0.02	0.02	0.0 234,235,0		0.03	3.55e-03	0.02209,236,235		0.13	209	0.33	0.14	0.86
	6.71e-03	4.48e-03	0.0 209,212,0		0.03	2.93e-04	2.93e-04209,236,236				1.00	0.04	0.96
3119	0.02	0.02	0.0 234,235,0		0.05	3.55e-03	0.02209,236,235		0.18	209	0.33	0.14	0.86
	6.71e-03	4.48e-03	0.0 209,212,0		0.05	1.88e-03	1.88e-03209,234,234				1.00	0.04	0.96
3120	0.03	0.02	0.0 228,225,0		0.04	6.61e-03	0.01209,236,235		0.15	209	0.33	0.14	0.86
	0.03	0.02	0.0 212,209,0		0.04	7.08e-03	7.08e-03209,236,236				1.00	0.04	0.96

3121	0.03	0.02	0.0 228,225,0	0.05	6.61e-03	0.01209,236,235	0.18	209	0.33	0.14	0.86
	0.03	0.02	0.0 212,209,0	0.05	8.12e-03	8.12e-03 209,68,68			1.00	0.04	0.96
3122	0.02	0.01	0.0 214,215,0	0.05	1.32e-03	5.13e-03212,233,235	0.17	212	0.33	0.14	0.86
	5.21e-03	3.61e-03	0.0 214,215,0	0.05	5.41e-03	5.41e-03212,235,235			1.00	0.04	0.96
3123	0.02	0.02	0.0 214,215,0	0.05	1.32e-03	6.44e-03212,233,235	0.17	212	0.33	0.14	0.86
	3.03e-03	2.07e-03	0.0 214,215,0	0.05	1.93e-03	1.93e-03212,235,235			1.00	0.04	0.96
3124	0.02	0.02	0.0 214,215,0	0.05	5.11e-04	6.44e-03209,235,235	0.17	209	0.33	0.14	0.86
	1.27e-03	8.52e-04	0.0 234,235,0	0.05	1.40e-03	1.40e-03209,236,236			1.00	0.04	0.96
3125	0.02	0.02	0.0 214,215,0	0.05	1.15e-03	5.76e-03209,235,239	0.18	209	0.33	0.14	0.86
	2.77e-03	1.90e-03	0.0 236,233,0	0.05	1.88e-03	1.88e-03209,234,234			1.00	0.04	0.96
3126	0.03	0.02	0.0 214,215,0	0.05	1.15e-03	4.86e-03209,235,235	0.18	209	0.33	0.14	0.86
	4.86e-03	3.32e-03	0.0 236,233,0	0.05	3.73e-03	3.73e-03 209,69,69			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.08	0.06	0.0	0.05	8.12e-03	0.02	0.18

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
89	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2957	0.01	7.05e-03	0.0 226,227,0		0.02	4.88e-03	7.85e-03212,236,235		0.11	212	0.33	0.14	0.86
	0.04	0.02	0.0 212,209,0		0.02	6.09e-03	6.09e-03212,236,236				1.00	0.04	0.96
2962	0.02	0.01	0.0 214,215,0		0.03	4.88e-03	7.85e-03212,236,235		0.13	212	0.33	0.14	0.86
	0.04	0.02	0.0 212,209,0		0.03	6.09e-03	6.09e-03212,236,236				1.00	0.04	0.96
2963	0.02	0.01	0.0 214,215,0		0.03	1.68e-03	4.47e-03212,227,227		0.13	212	0.33	0.14	0.86
	0.03	0.02	0.0 228,225,0		0.03	2.84e-03	2.84e-03212,234,234				1.00	0.04	0.96
2988	0.06	0.05	0.0 209,212,0		0.02	5.07e-03	0.01212,233,228		0.12	212	0.33	0.14	0.86
	0.03	0.02	0.0 209,212,0		0.02	6.61e-03	6.61e-03212,234,234				1.00	0.04	0.96
2998	0.06	0.05	0.0 209,212,0		0.04	5.07e-03	0.01212,233,228		0.14	212	0.33	0.14	0.86
	0.04	0.03	0.0 209,212,0		0.04	9.57e-03	9.57e-03 212,69,69				1.00	0.04	0.96
3000	0.02	0.01	0.0 226,215,0		0.04	2.41e-03	4.55e-03 212,68,68		0.14	212	0.33	0.14	0.86
	0.04	0.03	0.0 209,212,0		0.04	9.57e-03	9.57e-03 212,69,69				1.00	0.04	0.96
3127	0.06	0.05	0.0 209,212,0		0.02	5.07e-03	0.01212,233,228		0.12	212	0.33	0.14	0.86
	0.03	0.02	0.0 209,212,0		0.02	6.61e-03	6.61e-03212,234,234				1.00	0.04	0.96
3128	0.06	0.05	0.0 209,212,0		0.04	5.07e-03	0.01212,233,228		0.15	212	0.33	0.14	0.86
	0.04	0.03	0.0 209,212,0		0.04	9.57e-03	9.57e-03 212,69,69				1.00	0.04	0.96
3129	0.04	0.04	0.0 209,212,0		0.02	2.15e-03	0.01212,233,228		0.10	212	0.33	0.14	0.86
	6.01e-03	4.58e-03	0.0 212,209,0		0.02	4.03e-04	4.03e-04212,233,233				1.00	0.04	0.96
3130	0.04	0.04	0.0 209,212,0		0.04	2.15e-03	0.01212,233,228		0.15	212	0.33	0.14	0.86
	6.01e-03	4.58e-03	0.0 212,209,0		0.04	1.73e-03	1.73e-03212,235,235				1.00	0.04	0.96
3131	0.03	0.03	0.0 209,212,0		0.02	2.12e-03	0.01212,233,236		0.10	212	0.33	0.14	0.86
	7.32e-03	4.37e-03	0.0 209,212,0		0.02	4.03e-04	4.03e-04212,233,233				1.00	0.04	0.96
3132	0.03	0.03	0.0 209,212,0		0.04	2.12e-03	0.01212,233,236		0.15	212	0.33	0.14	0.86
	7.32e-03	4.37e-03	0.0 209,212,0		0.04	1.94e-03	1.94e-03212,226,226				1.00	0.04	0.96
3133	0.02	0.01	0.0 209,212,0		0.02	4.88e-03	0.01212,236,236		0.11	212	0.33	0.14	0.86
	0.04	0.02	0.0 212,209,0		0.02	6.09e-03	6.09e-03212,236,236				1.00	0.04	0.96
3134	0.02	0.01	0.0 209,212,0		0.04	4.88e-03	0.01212,236,236		0.15	212	0.33	0.14	0.86
	0.04	0.02	0.0 212,209,0		0.04	6.09e-03	6.09e-03212,236,236				1.00	0.04	0.96
3135	0.02	0.02	0.0 210,211,0		0.04	1.32e-03	4.84e-03212,226,227		0.15	212	0.33	0.14	0.86
	5.46e-03	3.57e-03	0.0 229,232,0		0.04	4.21e-03	4.21e-03212,236,236				1.00	0.04	0.96
3136	0.02	0.02	0.0 214,215,0		0.04	1.35e-03	4.84e-03212,68,227		0.15	212	0.33	0.14	0.86
	2.40e-03	1.75e-03	0.0 225,232,0		0.04	1.73e-03	1.73e-03212,235,235				1.00	0.04	0.96
3137	0.02	0.02	0.0 214,215,0		0.04	1.35e-03	4.80e-03212,68,227		0.15	212	0.33	0.14	0.86
	2.75e-03	1.59e-03	0.0 232,229,0		0.04	1.94e-03	1.94e-03212,226,226				1.00	0.04	0.96
3138	0.02	0.01	0.0 234,235,0		0.04	1.68e-03	4.47e-03212,227,227		0.15	212	0.33	0.14	0.86
	4.36e-03	2.48e-03	0.0 232,229,0		0.04	2.84e-03	2.84e-03212,234,234				1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.06	0.05	0.0	0.04	9.57e-03	0.01	0.15

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
90	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
216	9.17e-03	6.34e-03	0.0	209,212,0	0.04	1.06e-03	2.22e-03	212,214,215	0.15	212	0.36	0.13	0.87
	0.04	0.02	0.0	212,209,0	0.04	5.22e-03	5.22e-03	212,69,69			1.00	0.04	0.96
218	0.02	0.01	0.0	214,215,0	0.10	1.06e-03	2.66e-03	214,215	0.24	212	0.36	0.13	0.87
	0.04	0.02	0.0	212,212,0	0.10	5.22e-03	5.22e-03	212,69,69			1.00	0.04	0.96
239	0.02	0.02	0.0	223,222,0	0.07	9.20e-03	0.02	212,222,222	0.21	212	0.36	0.13	0.87
	0.03	0.03	0.0	209,212,0	0.07	2.19e-03	2.19e-03	212,230,230			1.00	0.04	0.96
1553	2.94e-03	2.49e-03	0.0	220,217,0	0.07	3.31e-03	4.29e-03	212,234,235	0.21	212	0.36	0.13	0.87
	0.13	0.09	0.0	209,212,0	0.07	5.65e-03	5.65e-03	212,223,223			1.00	0.04	0.96
1554	0.03	0.03	0.0	209,212,0	0.07	6.73e-03	0.01	212,228,228	0.20	212	0.36	0.13	0.87
	0.13	0.09	0.0	209,212,0	0.07	5.65e-03	5.65e-03	212,223,223			1.00	0.04	0.96
1568	0.01	6.60e-03	0.0	212,209,0	0.06	1.99e-03	2.63e-03	212,235,237	0.19	212	0.36	0.13	0.87
	0.21	0.12	0.0	212,209,0	0.06	9.43e-03	9.43e-03	212,69,69			1.00	0.04	0.96
1571	0.14	0.10	0.0	212,209,0	0.08	5.34e-03	0.01	212,236,209	0.22	212	0.36	0.13	0.87
	0.21	0.12	0.0	212,209,0	0.08	0.01	0.01	212,228,228			1.00	0.04	0.96
3139	0.14	0.10	0.0	212,209,0	0.10	5.34e-03	0.01	212,236,209	0.24	212	0.36	0.13	0.87
	0.21	0.12	0.0	212,209,0	0.10	0.01	0.01	212,228,228			1.00	0.04	0.96
3140	0.14	0.10	0.0	212,209,0	0.09	5.34e-03	0.01	212,236,209	0.23	212	0.36	0.13	0.87
	0.01	2.52e-03	0.0	68,212,0	0.09	0.01	0.01	212,228,228			1.00	0.04	0.96
3141	0.02	0.01	0.0	214,215,0	0.10	1.73e-03	4.05e-03	212,215,215	0.24	212	0.36	0.13	0.87
	0.04	0.02	0.0	209,212,0	0.10	2.52e-03	2.52e-03	212,68,68			1.00	0.04	0.96
3142	0.06	0.05	0.0	212,209,0	0.10	1.73e-03	7.15e-03	212,215,225	0.24	212	0.36	0.13	0.87
	0.04	0.02	0.0	209,212,0	0.10	2.52e-03	2.52e-03	212,68,68			1.00	0.04	0.96
3143	6.78e-03	5.58e-03	0.0	215,214,0	0.10	2.75e-03	7.80e-03	212,223,222	0.24	212	0.36	0.13	0.87
	0.01	9.85e-03	0.0	212,209,0	0.10	1.27e-03	1.27e-03	212,225,225			1.00	0.04	0.96
3144	0.03	0.03	0.0	212,209,0	0.10	2.75e-03	7.80e-03	212,223,222	0.24	212	0.36	0.13	0.87
	0.01	9.85e-03	0.0	212,209,0	0.10	2.23e-03	2.23e-03	212,229,229			1.00	0.04	0.96
3145	0.02	0.02	0.0	223,222,0	0.09	9.20e-03	0.02	212,222,222	0.23	212	0.36	0.13	0.87
	9.41e-03	7.84e-03	0.0	215,214,0	0.09	1.78e-03	1.78e-03	212,225,225			1.00	0.04	0.96
3146	0.03	0.03	0.0	209,212,0	0.09	9.20e-03	0.02	212,222,222	0.23	212	0.36	0.13	0.87
	0.13	0.09	0.0	209,212,0	0.09	5.65e-03	5.65e-03	212,223,223			1.00	0.04	0.96
3147	0.06	0.05	0.0	212,209,0	0.09	1.70e-03	7.15e-03	212,68,225	0.23	212	0.36	0.13	0.87
	3.19e-03	2.47e-03	0.0	215,214,0	0.09	1.89e-03	1.89e-03	212,236,236			1.00	0.04	0.96
3148	0.03	0.03	0.0	212,209,0	0.08	2.06e-03	5.28e-03	212,235,229	0.22	212	0.36	0.13	0.87
	3.19e-03	2.47e-03	0.0	215,214,0	0.08	2.23e-03	2.23e-03	212,229,229			1.00	0.04	0.96
3149	0.03	0.03	0.0	209,212,0	0.07	6.73e-03	0.01	212,228,228	0.20	212	0.36	0.13	0.87
	4.77e-03	4.45e-03	0.0	209,212,0	0.07	4.42e-03	4.42e-03	212,229,229			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.21	0.12	0.0	0.10	0.01	0.02	0.24

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
91	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
242	6.26e-03	5.48e-03	0.0	210,211,0	0.08	3.26e-03	4.18e-03	212,225,225	0.21	212	0.36	0.13	0.87
	0.04	0.03	0.0	212,209,0	0.08	5.48e-03	5.48e-03	212,225,225			1.00	0.04	0.96
275	0.02	0.01	0.0	212,209,0	0.10	2.36e-03	4.23e-03	209,225,225	0.24	209	0.36	0.13	0.87
	0.06	0.06	0.0	233,236,0	0.10	7.92e-03	7.92e-03	209,68,68			1.00	0.04	0.96
276	7.75e-03	6.58e-03	0.0	212,209,0	0.02	2.36e-03	4.23e-03	212,225,225	0.12	212	0.36	0.13	0.87
	0.06	0.06	0.0	233,236,0	0.02	7.92e-03	7.92e-03	212,68,68			1.00	0.04	0.96
1532	0.03	0.02	0.0	209,212,0	0.04	5.01e-03	8.46e-03	212,225,228	0.16	212	0.36	0.13	0.87
	0.22	0.16	0.0	209,212,0	0.04	0.02	0.02	212,68,68			1.00	0.04	0.96
1533	0.15	0.12	0.0	209,212,0	0.05	5.01e-03	0.04	212,225,228	0.18	212	0.36	0.13	0.87
	0.22	0.16	0.0	209,212,0	0.05	0.02	0.02	212,68,68			1.00	0.04	0.96
1547	6.47e-03	5.48e-03	0.0	210,211,0	0.08	3.26e-03	4.18e-03	212,225,225	0.21	212	0.36	0.13	0.87
	0.14	0.09	0.0	212,209,0	0.08	9.85e-03	9.85e-03	212,225,225			1.00	0.04	0.96
1549	0.03	0.02	0.0	212,209,0	0.07	0.01	0.01	212,227,229	0.20	212	0.36	0.13	0.87
	0.14	0.09	0.0	212,209,0	0.07	0.03	0.03	212,226,226			1.00	0.04	0.96

3150	0.15	0.12	0.0 209,212,0	0.10	5.01e-03	0.04209,225,228	0.24	209	0.36	0.13	0.87
	0.22	0.16	0.0 209,212,0	0.10	0.02	0.02 209,68,68			1.00	0.04	0.96
3151	0.15	0.12	0.0 209,212,0	0.07	3.43e-03	0.04209,227,228	0.20	209	0.36	0.13	0.87
	0.01	0.01	0.0 235,234,0	0.07	4.58e-03	4.58e-03 209,68,68			1.00	0.04	0.96
3152	2.70e-03	2.27e-03	0.0 215,214,0	0.09	1.64e-03	2.15e-03 212,68,68	0.23	212	0.36	0.13	0.87
	6.29e-03	5.68e-03	0.0 209,212,0	0.09	5.48e-03	5.48e-03212,225,225			1.00	0.04	0.96
3153	0.03	0.02	0.0 212,209,0	0.09	0.01	0.01212,227,229	0.23	212	0.36	0.13	0.87
	0.14	0.09	0.0 212,209,0	0.09	0.03	0.03212,226,226			1.00	0.04	0.96
3154	8.88e-03	7.39e-03	0.0 212,209,0	0.10	8.06e-04	2.28e-03209,70,225	0.24	209	0.36	0.13	0.87
	0.02	0.01	0.0 209,212,0	0.10	1.41e-03	1.41e-03209,226,226			1.00	0.04	0.96
3155	0.05	0.04	0.0 209,212,0	0.10	4.12e-03	0.02209,227,228	0.24	209	0.36	0.13	0.87
	0.02	0.01	0.0 209,212,0	0.10	3.05e-03	3.05e-03209,226,226			1.00	0.04	0.96
3156	0.02	0.01	0.0 212,209,0	0.10	1.72e-03	3.39e-03209,225,225	0.24	209	0.36	0.13	0.87
	0.05	0.04	0.0 212,209,0	0.10	2.67e-03	2.67e-03 209,70,70			1.00	0.04	0.96
3157	0.08	0.06	0.0 209,212,0	0.10	3.18e-03	0.02209,68,228	0.24	209	0.36	0.13	0.87
	0.05	0.04	0.0 212,209,0	0.10	2.67e-03	2.67e-03 209,70,70			1.00	0.04	0.96
3158	0.03	0.02	0.0 212,209,0	0.07	0.01	0.01212,227,229	0.20	212	0.36	0.13	0.87
	4.65e-03	2.99e-03	0.0 232,229,0	0.07	0.03	0.03212,226,226			1.00	0.04	0.96
3159	0.05	0.04	0.0 209,212,0	0.07	4.12e-03	0.02209,227,228	0.21	209	0.36	0.13	0.87
	2.83e-03	2.26e-03	0.0 209,212,0	0.07	3.05e-03	3.05e-03209,226,226			1.00	0.04	0.96
3160	0.08	0.06	0.0 209,212,0	0.07	3.18e-03	0.02209,68,228	0.21	209	0.36	0.13	0.87
	5.13e-03	5.18e-03	0.0 215,214,0	0.07	1.72e-03	1.72e-03209,225,225			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.22	0.16	0.0	0.10	0.03	0.04	0.24

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
92	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2936	0.05	0.03	0.0	212,209,0	0.02	5.69e-03	0.01212,227,229		0.11	212	0.33	0.14	0.86
	0.03	0.02	0.0	212,209,0	0.02	5.78e-03	5.78e-03212,226,226				1.00	0.04	0.96
2941	0.05	0.03	0.0	212,209,0	0.02	5.69e-03	0.01212,227,229		0.11	212	0.33	0.14	0.86
	0.03	0.02	0.0	212,209,0	0.02	0.01	0.01 212,70,70				1.00	0.04	0.96
2942	0.02	0.01	0.0	214,215,0	0.02	3.40e-03	3.40e-03 212,66,66		0.10	212	0.33	0.14	0.86
	0.02	0.01	0.0	212,225,0	0.02	0.01	0.01 212,70,70				1.00	0.04	0.96
2954	0.02	0.01	0.0	214,215,0	0.02	5.31e-03	8.82e-03212,226,227		0.11	212	0.33	0.14	0.86
	0.03	0.03	0.0	209,212,0	0.02	6.36e-03	6.36e-03212,226,226				1.00	0.04	0.96
2958	0.02	0.01	0.0	214,215,0	0.03	5.31e-03	8.82e-03212,226,227		0.12	212	0.33	0.14	0.86
	0.03	0.03	0.0	209,212,0	0.03	8.71e-03	8.71e-03212,228,228				1.00	0.04	0.96
2960	0.02	0.01	0.0	226,227,0	0.03	1.73e-03	2.65e-03212,68,225		0.12	212	0.33	0.14	0.86
	0.03	0.02	0.0	209,212,0	0.03	8.71e-03	8.71e-03212,228,228				1.00	0.04	0.96
3161	0.02	0.01	0.0	214,215,0	0.02	5.31e-03	0.01212,226,227		0.11	212	0.33	0.14	0.86
	0.03	0.03	0.0	209,212,0	0.02	6.36e-03	6.36e-03212,226,226				1.00	0.04	0.96
3162	0.02	0.01	0.0	226,227,0	0.03	5.31e-03	0.01212,226,227		0.13	212	0.33	0.14	0.86
	0.03	0.03	0.0	209,212,0	0.03	8.71e-03	8.71e-03212,228,228				1.00	0.04	0.96
3163	0.03	0.02	0.0	228,225,0	0.02	2.17e-03	0.01212,226,227		0.10	212	0.33	0.14	0.86
	7.03e-03	4.75e-03	0.0	212,209,0	0.02	4.04e-04	4.04e-04212,239,239				1.00	0.04	0.96
3164	0.03	0.02	0.0	228,225,0	0.03	2.17e-03	0.01212,226,227		0.13	212	0.33	0.14	0.86
	7.03e-03	4.75e-03	0.0	212,209,0	0.03	2.09e-03	2.09e-03212,225,225				1.00	0.04	0.96
3165	0.04	0.02	0.0	228,225,0	0.02	2.62e-03	0.01212,225,229		0.10	212	0.33	0.14	0.86
	5.53e-03	3.07e-03	0.0	209,212,0	0.02	3.83e-04	3.83e-04 212,70,70				1.00	0.04	0.96
3166	0.04	0.02	0.0	228,225,0	0.03	2.62e-03	0.01212,225,229		0.12	212	0.33	0.14	0.86
	5.53e-03	3.07e-03	0.0	209,212,0	0.03	1.61e-03	1.61e-03212,226,226				1.00	0.04	0.96
3167	0.05	0.03	0.0	212,209,0	0.02	5.69e-03	0.01212,227,229		0.11	212	0.33	0.14	0.86
	0.03	0.02	0.0	212,209,0	0.02	5.78e-03	5.78e-03212,226,226				1.00	0.04	0.96
3168	0.05	0.03	0.0	212,209,0	0.02	5.69e-03	0.01212,227,229		0.12	212	0.33	0.14	0.86
	0.03	0.02	0.0	212,209,0	0.02	0.01	0.01 212,70,70				1.00	0.04	0.96
3169	0.02	0.01	0.0	226,227,0	0.03	1.73e-03	3.74e-03212,68,225		0.13	212	0.33	0.14	0.86
	4.73e-03	3.29e-03	0.0	229,232,0	0.03	4.87e-03	4.87e-03212,226,226				1.00	0.04	0.96
3170	0.01	8.44e-03	0.0	226,227,0	0.03	1.72e-03	3.81e-03212,69,225		0.13	212	0.33	0.14	0.86
	2.46e-03	1.48e-03	0.0	229,232,0	0.03	2.09e-03	2.09e-03212,225,225				1.00	0.04	0.96
3171	0.01	6.69e-03	0.0	234,235,0	0.03	1.72e-03	3.81e-03212,69,225		0.12	212	0.33	0.14	0.86
	3.02e-03	1.77e-03	0.0	228,225,0	0.03	1.61e-03	1.61e-03212,226,226				1.00	0.04	0.96
3172	0.02	0.01	0.0	214,215,0	0.02	1.61e-03	3.21e-03212,66,231		0.12	212	0.33	0.14	0.86
	5.51e-03	3.52e-03	0.0	68,69,0	0.02	4.29e-03	4.29e-03 212,66,66				1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.05	0.03	0.0	0.03	0.01	0.01	0.13

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
93	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
312	6.20e-03	6.33e-03	0.0	233,236,0	0.05	2.19e-03	3.90e-03	228,212	0.17	228	0.36	0.13	0.87
	0.06	0.08	0.0	228,225,0	0.05	7.76e-03	7.76e-03	228,44,44			1.00	0.04	0.96
314	0.01	0.01	0.0	225,228,0	0.21	2.19e-03	3.90e-03	228,212	0.35	228	0.36	0.13	0.87
	0.06	0.08	0.0	228,225,0	0.21	7.76e-03	7.76e-03	228,44,44			1.00	0.04	0.96
335	1.73e-03	4.48e-03	0.0	45,44,0	0.15	9.35e-04	3.22e-03	225,212,44	0.30	225	0.36	0.13	0.87
	0.02	0.02	0.0	225,228,0	0.15	4.57e-03	4.57e-03	225,212,212			1.00	0.04	0.96
1483	5.17e-03	6.52e-03	0.0	232,229,0	0.15	2.45e-03	4.79e-03	225,212,209	0.30	225	0.36	0.13	0.87
	0.14	0.11	0.0	225,228,0	0.15	4.57e-03	4.57e-03	225,212,212			1.00	0.04	0.96
1484	0.03	0.03	0.0	225,228,0	0.10	9.96e-03	0.01	225,212,212	0.25	225	0.36	0.13	0.87
	0.14	0.11	0.0	225,228,0	0.10	6.81e-03	6.81e-03	225,212,212			1.00	0.04	0.96
1498	0.03	0.02	0.0	228,225,0	0.07	4.80e-03	8.07e-03	225,212,209	0.21	225	0.36	0.13	0.87
	0.27	0.22	0.0	228,225,0	0.07	0.02	0.02	225,212,212			1.00	0.04	0.96
1500	0.19	0.13	0.0	228,225,0	0.09	4.80e-03	0.03	225,212,209	0.23	225	0.36	0.13	0.87
	0.27	0.22	0.0	228,225,0	0.09	0.02	0.02	225,212,212			1.00	0.04	0.96
3173	0.19	0.13	0.0	228,225,0	0.21	4.80e-03	0.03	228,212,209	0.35	228	0.36	0.13	0.87
	0.27	0.22	0.0	228,225,0	0.21	0.02	0.02	228,212,212			1.00	0.04	0.96
3174	0.19	0.13	0.0	228,225,0	0.15	3.20e-03	0.03	228,44,209	0.29	228	0.36	0.13	0.87
	4.61e-03	0.01	0.0	215,214,0	0.15	0.01	0.01	228,210,210			1.00	0.04	0.96
3175	0.01	0.01	0.0	225,228,0	0.21	1.51e-03	3.05e-03	228,212,212	0.35	228	0.36	0.13	0.87
	0.05	0.04	0.0	225,228,0	0.21	1.72e-03	1.72e-03	228,45,45			1.00	0.04	0.96
3176	0.08	0.06	0.0	228,225,0	0.21	3.36e-03	0.02	228,212,209	0.35	228	0.36	0.13	0.87
	0.05	0.04	0.0	225,228,0	0.21	1.82e-03	1.82e-03	228,209,209			1.00	0.04	0.96
3177	1.73e-03	4.48e-03	0.0	45,44,0	0.17	9.35e-04	3.22e-03	228,212,44	0.31	228	0.36	0.13	0.87
	0.03	0.02	0.0	228,228,0	0.17	4.57e-03	4.57e-03	228,212,212			1.00	0.04	0.96
3178	0.03	0.03	0.0	228,228,0	0.17	9.96e-03	0.01	228,212,212	0.31	228	0.36	0.13	0.87
	0.14	0.11	0.0	225,228,0	0.17	6.81e-03	6.81e-03	228,212,212			1.00	0.04	0.96
3179	0.08	0.06	0.0	228,225,0	0.15	3.36e-03	0.02	228,212,209	0.29	228	0.36	0.13	0.87
	5.03e-03	3.84e-03	0.0	100,210,0	0.15	1.82e-03	1.82e-03	228,209,209			1.00	0.04	0.96
3180	0.03	0.03	0.0	228,228,0	0.11	9.96e-03	0.01	228,212,212	0.26	228	0.36	0.13	0.87
	7.56e-03	6.75e-04	0.0	99,231,0	0.11	6.81e-03	6.81e-03	228,212,212			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.27	0.22	0.0	0.21	0.02	0.03	0.35

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
94	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
2887	0.02	5.89e-03	0.0	230,231,0	0.05	4.93e-03	4.93e-03	225,210,210	0.17	225	0.33	0.14	0.86
	0.04	0.04	0.0	228,225,0	0.05	5.67e-03	5.67e-03	225,210,210			1.00	0.04	0.96
2892	0.02	5.89e-03	0.0	230,231,0	0.06	4.93e-03	4.93e-03	225,210,210	0.18	225	0.33	0.14	0.86
	0.04	0.04	0.0	228,225,0	0.06	5.67e-03	5.67e-03	225,210,210			1.00	0.04	0.96
2893	0.01	8.79e-03	0.0	225,211,0	0.06	1.69e-03	2.80e-03	225,212,212	0.19	225	0.33	0.14	0.86
	0.02	0.03	0.0	228,225,0	0.06	2.33e-03	2.33e-03	225,45,45			1.00	0.04	0.96
2908	0.07	0.05	0.0	225,228,0	0.06	5.21e-03	0.01	228,211,216	0.19	228	0.33	0.14	0.86
	0.03	0.03	0.0	225,228,0	0.06	5.48e-03	5.48e-03	228,210,210			1.00	0.04	0.96
2914	0.07	0.05	0.0	225,228,0	0.06	5.21e-03	0.01	228,211,216	0.19	228	0.33	0.14	0.86
	0.03	0.03	0.0	225,228,0	0.06	0.01	0.01	228,45,45			1.00	0.04	0.96

2916	0.02	0.02	0.0	226,227,0	0.06	2.84e-03	3.28e-03	228,45,209	0.19	228	0.33	0.14	0.86
	0.02	0.03	0.0	225,33,0	0.06	0.01	0.01	228,45,45			1.00	0.04	0.96
3181	0.07	0.05	0.0	225,228,0	0.06	5.21e-03	0.01	228,211,216	0.19	228	0.33	0.14	0.86
	0.03	0.03	0.0	225,228,0	0.06	5.48e-03	5.48e-03	228,210,210			1.00	0.04	0.96
3182	0.07	0.05	0.0	225,228,0	0.06	5.21e-03	0.01	228,211,216	0.19	228	0.33	0.14	0.86
	0.03	0.03	0.0	225,228,0	0.06	0.01	0.01	228,45,45			1.00	0.04	0.96
3183	0.05	0.02	0.0	225,228,0	0.04	1.57e-03	0.01	228,212,216	0.15	228	0.33	0.14	0.86
	0.01	0.01	0.0	225,228,0	0.04	1.37e-04	1.37e-04	228,228,228			1.00	0.04	0.96
3184	0.05	0.02	0.0	225,228,0	0.06	1.73e-03	0.01	228,45,216	0.18	228	0.33	0.14	0.86
	0.01	0.02	0.0	225,105,0	0.06	1.45e-03	1.45e-03	228,209,209			1.00	0.04	0.96
3185	0.03	6.41e-03	0.0	213,216,0	0.05	4.93e-03	4.93e-03	225,210,210	0.17	225	0.33	0.14	0.86
	0.04	0.04	0.0	228,225,0	0.05	5.67e-03	5.67e-03	225,210,210			1.00	0.04	0.96
3186	0.03	8.79e-03	0.0	213,211,0	0.06	4.93e-03	4.93e-03	225,210,210	0.19	225	0.33	0.14	0.86
	0.04	0.04	0.0	228,225,0	0.06	5.67e-03	5.67e-03	225,210,210			1.00	0.04	0.96
3187	0.02	0.02	0.0	226,227,0	0.06	1.73e-03	3.42e-03	228,45,46	0.19	228	0.33	0.14	0.86
	0.0	0.03	0.0	0,107,0	0.06	5.31e-03	5.31e-03	228,210,210			0.0	0.0	0.0
3188	8.71e-03	7.02e-03	0.0	210,211,0	0.06	1.73e-03	3.81e-03	228,45,212	0.18	228	0.33	0.14	0.86
	0.0	0.02	0.0	0,105,0	0.06	1.45e-03	1.45e-03	228,209,209			0.0	0.0	0.0
3189	9.41e-03	8.79e-03	0.0	210,211,0	0.06	1.69e-03	3.81e-03	225,45,212	0.19	225	0.33	0.14	0.86
	0.0	0.03	0.0	0,105,0	0.06	2.29e-03	2.29e-03	225,209,209			0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.07	0.05	0.0	0.06	0.01	0.01	0.19

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
95	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
732	0.01	9.79e-03	0.0	211,233,0	0.12	2.61e-04	1.29e-03	233,217,210	0.27	233	0.33	0.14	0.86
	0.03	0.02	0.0	233,236,0	0.12	6.35e-03	6.35e-03	233,219,219			1.00	0.04	0.96
734	0.03	0.03	0.0	235,234,0	0.10	3.03e-03	5.58e-03	233,217,222	0.25	233	0.33	0.14	0.86
	0.03	0.02	0.0	233,236,0	0.10	4.77e-03	4.77e-03	233,217,217			1.00	0.04	0.96
764	0.03	0.03	0.0	235,234,0	0.12	3.03e-03	5.58e-03	233,217,222	0.27	233	0.33	0.14	0.86
	0.03	0.02	0.0	233,236,0	0.12	6.35e-03	6.35e-03	233,219,219			1.00	0.04	0.96
2008	0.03	0.03	0.0	235,234,0	0.10	3.03e-03	5.58e-03	233,217,222	0.25	233	0.33	0.14	0.86
	0.03	0.02	0.0	233,236,0	0.10	4.77e-03	4.77e-03	233,217,217			1.00	0.04	0.96
2009	0.03	0.03	0.0	235,234,0	0.14	3.03e-03	5.58e-03	233,217,222	0.29	233	0.33	0.14	0.86
	0.03	0.02	0.0	233,236,0	0.14	6.35e-03	6.35e-03	233,219,219			1.00	0.04	0.96
2012	0.04	0.04	0.0	236,233,0	0.11	2.97e-03	6.06e-03	233,219,223	0.25	233	0.33	0.14	0.86
	0.03	0.02	0.0	236,233,0	0.11	4.67e-03	4.67e-03	233,219,219			1.00	0.04	0.96
2022	0.04	0.04	0.0	236,233,0	0.14	2.97e-03	6.06e-03	233,219,223	0.29	233	0.33	0.14	0.86
	0.03	0.02	0.0	236,233,0	0.14	4.67e-03	4.67e-03	233,219,219			1.00	0.04	0.96
2023	0.01	9.46e-03	0.0	211,210,0	0.14	2.61e-04	1.29e-03	233,217,210	0.29	233	0.33	0.14	0.86
	4.55e-03	2.92e-03	0.0	233,236,0	0.14	2.86e-03	2.86e-03	233,217,217			1.00	0.04	0.96
2025	0.03	0.02	0.0	227,226,0	0.14	2.59e-04	2.18e-03	233,211,210	0.29	233	0.33	0.14	0.86
	4.83e-03	3.17e-03	0.0	238,239,0	0.14	2.34e-03	2.34e-03	233,220,220			1.00	0.04	0.96
2034	0.04	0.04	0.0	236,233,0	0.11	2.97e-03	6.06e-03	233,219,223	0.25	233	0.33	0.14	0.86
	0.03	0.02	0.0	236,233,0	0.11	4.67e-03	4.67e-03	233,219,219			1.00	0.04	0.96
2496	0.04	0.04	0.0	236,233,0	0.13	2.97e-03	6.06e-03	235,219,223	0.28	235	0.33	0.14	0.86
	0.03	0.02	0.0	236,233,0	0.13	4.67e-03	4.67e-03	235,219,219			1.00	0.04	0.96
2574	0.03	0.02	0.0	227,226,0	0.13	2.59e-04	2.18e-03	235,211,210	0.28	235	0.33	0.14	0.86
	0.03	0.02	0.0	236,233,0	0.13	2.36e-03	2.36e-03	235,217,217			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.04	0.04	0.0	0.14	6.35e-03	6.35e-03	0.29

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
96	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
731	0.06	0.04	0.0	233,236,0	0.31	2.03e-03	5.70e-03	233,217,228	0.43	233	0.33	0.14	0.86
	0.04	0.03	0.0	233,236,0	0.31	2.83e-03	2.83e-03	217,217			1.00	0.04	0.96
733	0.06	0.04	0.0	233,236,0	0.36	2.03e-03	5.70e-03	217,228	0.46	233	0.33	0.14	0.86
	0.04	0.03	0.0	233,236,0	0.36	5.27e-03	5.27e-03	219,219			1.00	0.04	0.96
751	0.03	0.03	0.0	234,235,0	0.37	4.61e-04	2.94e-03	218,235	0.47	233	0.33	0.14	0.86
	0.01	0.03	0.0	237,240,0	0.37	5.27e-03	5.27e-03	219,219			1.00	0.04	0.96
2004	0.07	0.06	0.0	236,233,0	0.32	2.39e-03	7.73e-03	219,231	0.44	233	0.33	0.14	0.86
	0.04	0.03	0.0	234,235,0	0.32	3.24e-03	3.24e-03	219,219			1.00	0.04	0.96
2005	0.07	0.06	0.0	236,233,0	0.36	2.39e-03	7.73e-03	219,231	0.46	233	0.33	0.14	0.86
	0.04	0.03	0.0	234,235,0	0.36	3.24e-03	3.24e-03	219,219			1.00	0.04	0.96
2006	0.04	0.03	0.0	226,227,0	0.37	4.64e-04	3.81e-03	219,227	0.47	233	0.33	0.14	0.86
	5.35e-03	0.03	0.0	234,235,0	0.37	1.42e-03	1.42e-03	219,219			1.00	0.04	0.96
2038	0.06	0.04	0.0	233,236,0	0.31	2.03e-03	5.70e-03	217,228	0.43	233	0.33	0.14	0.86
	0.04	0.03	0.0	233,236,0	0.31	2.83e-03	2.83e-03	217,217			1.00	0.04	0.96
2039	0.06	0.04	0.0	233,236,0	0.39	2.03e-03	5.70e-03	217,228	0.48	233	0.33	0.14	0.86
	0.04	0.03	0.0	233,236,0	0.39	5.27e-03	5.27e-03	219,219			1.00	0.04	0.96
2401	0.07	0.06	0.0	236,233,0	0.32	2.39e-03	7.73e-03	219,231	0.44	233	0.33	0.14	0.86
	0.04	0.03	0.0	234,235,0	0.32	3.24e-03	3.24e-03	219,219			1.00	0.04	0.96
2402	0.07	0.06	0.0	236,233,0	0.39	2.39e-03	7.73e-03	219,231	0.48	233	0.33	0.14	0.86
	0.04	0.03	0.0	234,235,0	0.39	3.24e-03	3.24e-03	219,219			1.00	0.04	0.96
2500	9.84e-03	8.45e-03	0.0	240,237,0	0.39	2.65e-04	1.17e-03	218,237	0.48	233	0.33	0.14	0.86
	4.45e-03	4.19e-03	0.0	233,236,0	0.39	2.25e-03	2.25e-03	217,217			1.00	0.04	0.96
2501	0.04	0.03	0.0	226,227,0	0.39	4.64e-04	3.81e-03	219,227	0.48	233	0.33	0.14	0.86
	3.80e-03	4.19e-03	0.0	238,239,0	0.39	1.47e-03	1.47e-03	220,220			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.07	0.06	0.0	0.39	5.27e-03	7.73e-03	0.48

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
97	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
756	0.06	0.05	0.0	233,236,0	0.30	8.56e-04	5.28e-03	223,236	0.42	233	0.29	0.16	0.84
	0.01	0.02	0.0	234,235,0	0.30	1.03e-03	1.03e-03	217,217			1.00	0.04	0.96
767	0.06	0.05	0.0	233,236,0	0.40	8.56e-04	5.28e-03	223,236	0.49	233	0.29	0.16	0.84
	0.10	0.10	0.0	234,235,0	0.40	2.62e-03	2.62e-03	221,221			1.00	0.04	0.96
768	0.03	0.03	0.0	234,235,0	0.44	6.40e-04	3.14e-03	219,227	0.51	233	0.29	0.16	0.84
	0.10	0.10	0.0	234,235,0	0.44	2.62e-03	2.62e-03	221,221			1.00	0.04	0.96
777	0.09	0.08	0.0	234,235,0	0.32	1.34e-03	8.57e-03	217,235	0.44	233	0.29	0.16	0.84
	9.92e-03	0.02	0.0	237,240,0	0.32	1.24e-03	1.24e-03	219,219			1.00	0.04	0.96
2026	0.09	0.08	0.0	234,235,0	0.40	1.34e-03	8.57e-03	217,235	0.48	233	0.29	0.16	0.84
	0.09	0.10	0.0	233,236,0	0.40	1.37e-03	1.37e-03	221,221			1.00	0.04	0.96
2027	0.01	0.02	0.0	210,240,0	0.43	8.14e-04	2.15e-03	218,219	0.50	233	0.29	0.16	0.84
	0.09	0.10	0.0	233,236,0	0.43	1.37e-03	1.37e-03	221,221			1.00	0.04	0.96
3222	0.06	0.05	0.0	233,236,0	0.31	8.56e-04	5.28e-03	223,236	0.43	233	0.29	0.16	0.84
	0.01	0.02	0.0	234,235,0	0.31	1.03e-03	1.03e-03	217,217			1.00	0.04	0.96
3223	0.06	0.05	0.0	233,236,0	0.44	8.56e-04	5.28e-03	223,236	0.51	233	0.29	0.16	0.84
	0.10	0.10	0.0	234,235,0	0.44	2.62e-03	2.62e-03	221,221			1.00	0.04	0.96
3224	0.09	0.08	0.0	234,235,0	0.32	1.34e-03	8.57e-03	217,235	0.44	233	0.29	0.16	0.84
	9.92e-03	0.02	0.0	237,240,0	0.32	1.24e-03	1.24e-03	219,219			1.00	0.04	0.96
3225	0.09	0.08	0.0	234,235,0	0.43	1.34e-03	8.57e-03	217,235	0.50	233	0.29	0.16	0.84
	0.09	0.10	0.0	233,236,0	0.43	1.37e-03	1.37e-03	221,221			1.00	0.04	0.96
3226	6.13e-03	7.80e-03	0.0	236,235,0	0.44	4.99e-04	1.21e-03	217,217	0.51	233	0.29	0.16	0.84
	1.71e-03	2.97e-03	0.0	234,235,0	0.44	1.17e-03	1.17e-03	217,217			1.00	0.04	0.96
3227	0.01	0.01	0.0	210,211,0	0.43	8.14e-04	2.15e-03	218,219	0.50	233	0.29	0.16	0.84
	1.43e-03	3.12e-03	0.0	210,240,0	0.43	4.75e-04	4.75e-04	233,217,217			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.10	0.10	0.0	0.44	2.62e-03	8.57e-03	0.51

Setto	Mat.	N. strati	Spessore	Incoll.	Stato

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
98	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
650	0.15	0.11	0.0	224,221,0	0.10	2.69e-03	0.01	221,228,221	0.25	221	0.29	0.16	0.84
	0.0	0.04	0.0	0,100,0	0.10	1.86e-03	1.86e-03	221,228,228			0.0	0.0	0.0
665	0.15	0.11	0.0	224,221,0	0.10	2.69e-03	0.01	221,228,221	0.25	221	0.29	0.16	0.84
	0.0	0.13	0.0	0,100,0	0.10	4.49e-03	4.49e-03	221,228,228			0.0	0.0	0.0
666	0.01	0.01	0.0	221,224,0	0.08	1.79e-03	2.78e-03	217,228,216	0.22	217	0.29	0.16	0.84
	0.0	0.13	0.0	0,100,0	0.08	4.49e-03	4.49e-03	217,228,228			0.0	0.0	0.0
678	8.40e-03	4.14e-03	0.0	224,218,0	0.04	2.26e-03	4.00e-03	224,233,238	0.15	224	0.29	0.16	0.84
	0.06	0.12	0.0	234,100,0	0.04	0.04	0.04	224,100,100			1.00	0.04	0.96
680	8.40e-03	0.01	0.0	224,100,0	0.04	0.01	0.02	221,100,100	0.16	221	0.29	0.16	0.84
	0.06	0.40	0.0	234,100,0	0.04	0.05	0.05	221,100,100			1.00	0.04	0.96
681	0.02	0.02	0.0	224,221,0	0.07	3.13e-03	0.01	224,228,100	0.20	224	0.29	0.16	0.84
	0.09	0.10	0.0	224,221,0	0.07	0.03	0.03	224,100,100			1.00	0.04	0.96
682	7.03e-03	0.01	0.0	224,100,0	0.05	0.01	0.02	224,100,100	0.17	224	0.29	0.16	0.84
	0.09	0.40	0.0	224,100,0	0.05	0.05	0.05	224,100,100			1.00	0.04	0.96
684	0.01	0.02	0.0	224,221,0	0.07	1.76e-03	4.72e-03	221,228,100	0.20	221	0.29	0.16	0.84
	0.0	0.02	0.0	0,100,0	0.07	8.70e-04	8.70e-04	221,227,227			0.0	0.0	0.0
687	0.02	0.02	0.0	224,221,0	0.07	2.76e-03	9.03e-03	224,100,100	0.21	224	0.29	0.16	0.84
	5.21e-03	0.01	0.0	237,99,0	0.07	8.70e-04	8.70e-04	224,227,227			1.00	0.04	0.96
690	0.02	0.02	0.0	224,221,0	0.07	3.13e-03	0.01	224,228,100	0.21	224	0.29	0.16	0.84
	0.04	0.04	0.0	224,221,0	0.07	2.71e-03	2.71e-03	224,240,240			1.00	0.04	0.96
693	0.01	0.01	0.0	221,224,0	0.08	1.79e-03	2.93e-03	217,228,226	0.22	217	0.29	0.16	0.84
	0.0	0.04	0.0	0,100,0	0.08	6.96e-04	6.96e-04	217,227,227			0.0	0.0	0.0
3228	0.15	0.11	0.0	224,221,0	0.10	2.69e-03	0.01	221,228,221	0.25	221	0.29	0.16	0.84
	0.0	0.13	0.0	0,100,0	0.10	4.49e-03	4.49e-03	221,228,228			0.0	0.0	0.0
3229	0.13	0.09	0.0	224,221,0	0.07	2.08e-03	0.01	221,228,221	0.20	221	0.29	0.16	0.84
	1.36e-03	0.02	0.0	231,100,0	0.07	8.70e-04	8.70e-04	221,227,227			1.00	0.04	0.96
3230	0.10	0.07	0.0	224,221,0	0.07	2.76e-03	9.50e-03	224,100,237	0.21	224	0.29	0.16	0.84
	5.21e-03	0.01	0.0	237,99,0	0.07	1.11e-03	1.11e-03	224,100,100			1.00	0.04	0.96
3231	0.07	0.05	0.0	224,221,0	0.07	3.13e-03	0.01	224,228,100	0.21	224	0.29	0.16	0.84
	0.04	0.04	0.0	224,221,0	0.07	2.71e-03	2.71e-03	224,240,240			1.00	0.04	0.96
3232	0.05	0.03	0.0	224,221,0	0.07	0.01	0.02	224,100,100	0.20	224	0.29	0.16	0.84
	0.09	0.40	0.0	224,100,0	0.07	0.05	0.05	224,100,100			1.00	0.04	0.96
3233	0.05	0.03	0.0	224,221,0	0.04	2.26e-03	5.82e-03	224,233,237	0.15	224	0.29	0.16	0.84
	0.06	0.12	0.0	234,100,0	0.04	0.04	0.04	224,100,100			1.00	0.04	0.96
3234	0.07	0.05	0.0	224,221,0	0.04	7.86e-04	7.71e-03	224,228,237	0.14	224	0.29	0.16	0.84
	0.02	0.02	0.0	235,234,0	0.04	1.15e-03	1.15e-03	224,237,237			1.00	0.04	0.96
3235	0.10	0.07	0.0	224,221,0	0.04	1.36e-03	9.50e-03	221,228,237	0.15	221	0.29	0.16	0.84
	3.76e-03	3.35e-03	0.0	236,99,0	0.04	1.11e-03	1.11e-03	221,100,100			1.00	0.04	0.96
3236	0.13	0.09	0.0	224,221,0	0.06	2.08e-03	0.01	221,228,221	0.18	221	0.29	0.16	0.84
	1.36e-03	9.65e-03	0.0	231,100,0	0.06	6.82e-04	6.82e-04	221,100,100			1.00	0.04	0.96
3237	0.15	0.11	0.0	224,221,0	0.10	2.69e-03	0.01	221,228,221	0.25	221	0.29	0.16	0.84
	0.0	0.04	0.0	0,100,0	0.10	1.86e-03	1.86e-03	221,228,228			0.0	0.0	0.0

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.15	0.40	0.0	0.10	0.05	0.05	0.25

Setto	Mat.	N. strati	Spessore	Incoll.	Stato
			cm		
99	Legno XLAM n. 3 verticale-legno E = 8.250e+04	5	16.0	NO	ok

V. connes.	V. piede	Azione V	Rif. cmb	V. testa	Azione V	Rif. cmb	V. h-d	Azione N	Azione M	Rif. cmb
		kN			kN			kN	kN m	
ok	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0

Nodo	V. 127	V. 128	V. 545	Rif. cmb	V. 129	V. 130	V. 131	Rif. cmb	V. D.26	Rif. cmb	Fac. B-A	Qsup. A	Qsup. B
765	0.10	0.09	0.0	224,221,0	0.10	4.92e-03	0.01	221,227,237	0.25	221	0.33	0.14	0.86
	0.04	0.06	0.0	224,221,0	0.10	5.30e-03	5.30e-03	221,226,226			1.00	0.04	0.96
766	0.08	0.07	0.0	224,221,0	0.04	2.86e-03	0.01	221,236,237	0.15	221	0.33	0.14	0.86

	3.36e-03	8.87e-03	0.0 224,100,0	0.04	8.28e-04	8.28e-04221,100,100			1.00	0.04	0.96
775	0.07	0.05	0.0 224,221,0	0.03	1.41e-03	0.01221,236,233	0.12	221	0.33	0.14	0.86
	3.36e-03	4.60e-03	0.0 224,221,0	0.03	1.15e-03	1.15e-03221,100,100			1.00	0.04	0.96
1338	0.10	0.09	0.0 224,221,0	0.10	4.92e-03	0.01221,227,237	0.25	221	0.33	0.14	0.86
	0.04	0.06	0.0 224,221,0	0.10	5.30e-03	5.30e-03221,226,226			1.00	0.04	0.96
1355	0.10	0.09	0.0 224,221,0	0.10	4.92e-03	0.01221,227,237	0.25	221	0.33	0.14	0.86
	0.05	0.12	0.0 224,221,0	0.10	5.30e-03	5.30e-03221,226,226			1.00	0.04	0.96
1356	0.0	0.01	0.0 0,100,0	0.07	1.49e-03	3.22e-03221,228,237	0.21	221	0.0	0.0	0.0
	0.05	0.12	0.0 224,221,0	0.07	2.50e-03	2.50e-03221,240,240			1.00	0.04	0.96
1366	6.87e-03	4.32e-03	0.0 240,237,0	0.02	5.48e-03	8.50e-03224,236,233	0.10	224	0.33	0.14	0.86
	5.66e-03	0.09	0.0 237,100,0	0.02	0.04	0.04224,100,100			1.00	0.04	0.96
1368	8.68e-03	9.82e-03	0.0 224,100,0	0.03	0.01	0.02221,100,100	0.14	221	0.33	0.14	0.86
	5.66e-03	0.27	0.0 237,100,0	0.03	0.05	0.05221,240,240			1.00	0.04	0.96
1369	0.01	0.02	0.0 224,100,0	0.05	3.28e-03	0.01224,236,100	0.17	224	0.33	0.14	0.86
	0.07	0.06	0.0 224,221,0	0.05	0.03	0.03224,100,100			1.00	0.04	0.96
1370	8.68e-03	0.01	0.0 224,100,0	0.03	0.01	0.02221,100,100	0.14	221	0.33	0.14	0.86
	0.07	0.27	0.0 224,100,0	0.03	0.05	0.05221,240,240			1.00	0.04	0.96
1373	6.17e-03	0.01	0.0 224,221,0	0.07	1.49e-03	3.98e-03221,228,237	0.20	221	0.33	0.14	0.86
	6.42e-03	0.04	0.0 224,100,0	0.07	1.66e-03	1.66e-03221,227,227			1.00	0.04	0.96
1376	8.31e-03	0.02	0.0 224,221,0	0.05	1.57e-03	5.07e-03221,100,237	0.17	221	0.33	0.14	0.86
	5.69e-03	0.02	0.0 224,221,0	0.05	1.34e-03	1.34e-03221,231,231			1.00	0.04	0.96
1379	0.01	0.02	0.0 224,221,0	0.04	2.63e-03	8.89e-03224,100,100	0.16	224	0.33	0.14	0.86
	0.0	0.01	0.0 0,100,0	0.04	1.09e-03	1.09e-03224,231,231			0.0	0.0	0.0
1382	0.01	0.02	0.0 224,100,0	0.05	3.28e-03	0.01224,236,100	0.17	224	0.33	0.14	0.86
	0.03	0.03	0.0 224,221,0	0.05	4.93e-03	4.93e-03224,240,240			1.00	0.04	0.96
2047	0.05	0.04	0.0 224,221,0	0.02	2.26e-03	0.01224,231,233	0.11	224	0.33	0.14	0.86
	0.01	8.09e-03	0.0 224,221,0	0.02	1.64e-03	1.64e-03224,100,100			1.00	0.04	0.96
2413	0.08	0.07	0.0 224,221,0	0.05	2.86e-03	0.01221,236,237	0.17	221	0.33	0.14	0.86
	5.69e-03	0.02	0.0 224,221,0	0.05	1.34e-03	1.34e-03221,231,231			1.00	0.04	0.96
2414	0.07	0.05	0.0 224,221,0	0.04	2.63e-03	0.01224,100,233	0.16	224	0.33	0.14	0.86
	3.36e-03	0.01	0.0 224,100,0	0.04	1.15e-03	1.15e-03224,100,100			1.00	0.04	0.96
2415	0.05	0.04	0.0 224,221,0	0.05	3.28e-03	0.01224,236,100	0.17	224	0.33	0.14	0.86
	0.03	0.03	0.0 224,221,0	0.05	4.93e-03	4.93e-03224,240,240			1.00	0.04	0.96
2498	0.03	0.02	0.0 224,221,0	0.05	0.01	0.02224,100,100	0.17	224	0.33	0.14	0.86
	0.07	0.27	0.0 224,100,0	0.05	0.05	0.05224,240,240			1.00	0.04	0.96
2499	0.03	0.02	0.0 224,221,0	0.02	5.48e-03	0.01224,236,233	0.10	224	0.33	0.14	0.86
	0.01	0.09	0.0 224,100,0	0.02	0.04	0.04224,100,100			1.00	0.04	0.96
3238	0.10	0.09	0.0 224,221,0	0.10	4.92e-03	0.01221,227,237	0.25	221	0.33	0.14	0.86
	0.05	0.12	0.0 224,221,0	0.10	5.30e-03	5.30e-03221,226,226			1.00	0.04	0.96

Nodo	V. 127	V. 128	V. 545	V. 129	V. 130	V. 131	V. D.26
	0.10	0.27	0.0	0.10	0.05	0.05	0.25

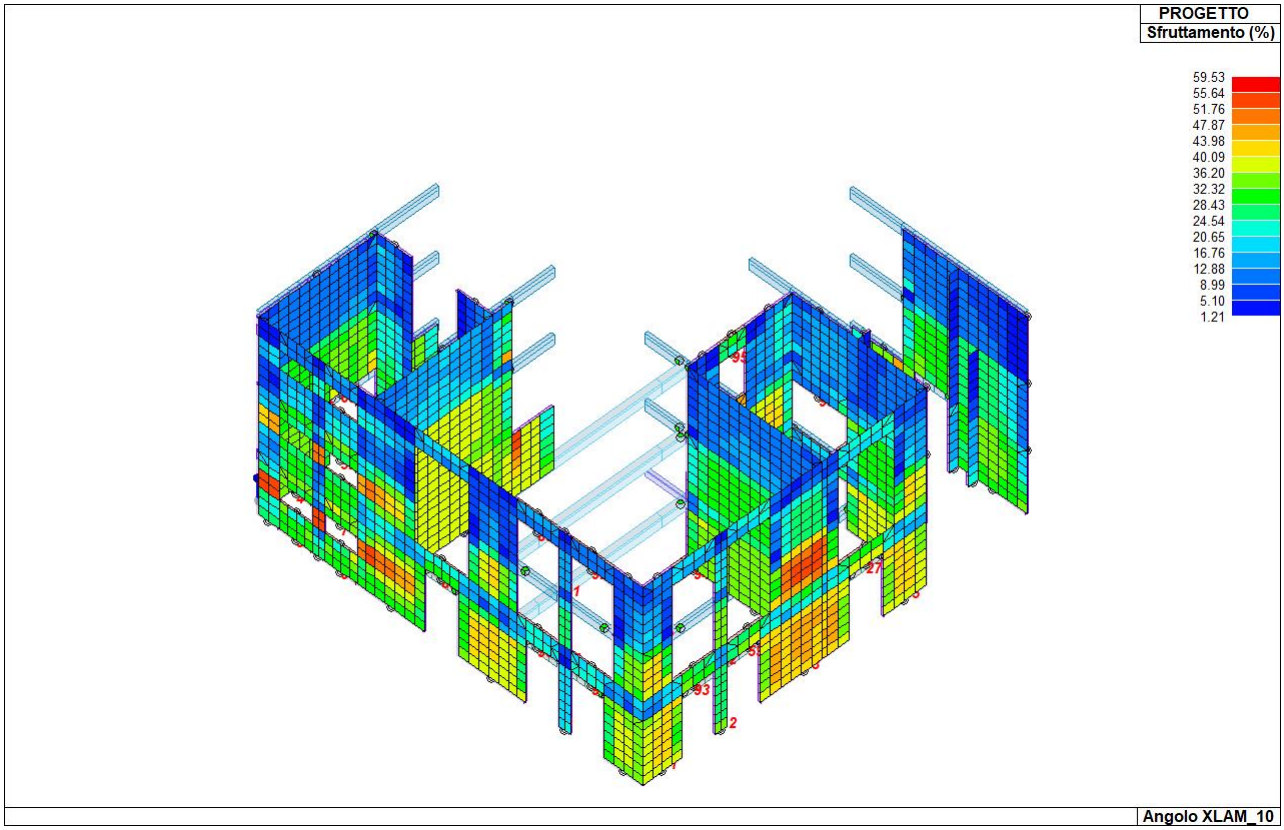


Figura 49: Sfruttamento elementi D3 [%]

13.4 VERIFICHE US 02-S

13.4.1 LEGENDA TABELLA VERIFICHE PER ELEMENTI IN ACCIAIO

Il programma consente la verifica dei seguenti tipi di elementi:

1. **aste** 2. **travi** 3. **pilastri**

L'esito delle verifiche è espresso con un codice come di seguito indicato

Ok: verifica con esito positivo

NV: verifica con esito negativo

Nr: verifica non richiesta.

Per comodità gli elementi vengono raggruppati in tabelle in relazione al tipo.

Ai fini delle verifiche (come da D.M. 17 Gennaio 2018 e circolare del 21 gennaio 2019) i tipi elementi differiscono per i seguenti aspetti:

Verifica		Aste	Travi	Pilastri
4.2.3.1	Classificazione	X	X	X
4.2.4.1.2.1	Trazione	X	X	X
4.2.4.1.2.2	Compressione	X	X	X
4.2.4.1.2.4	Taglio		X	X
4.2.4.1.2.5	Torsione		X	X
	Flessione, taglio e forza assiale		X	X
4.2.4.1.3.1	Aste compresse	X	X	X
4.2.4.1.3.2	Instabilità flesso-torsionale		X	X
4.2.4.1.3.3	Membrature inflesse e compresse		X	X

Ai fini delle verifiche per strutture dissipative (come da D.M. 17 Gennaio 2018 e circolare del 21 gennaio 2019) per strutture intelaiate e a controventi concentrici) si considerano le verifiche del capitolo 4 con azioni amplificate e le verifiche del capitolo 7:

Verifica		Travi	Pilastri
4.2.4.1.2.1	Trazione	X	X
4.2.4.1.2.2	Compressione	X	X
4.2.4.1.2.4	Taglio	X	X
4.2.4.1.2.5	Torsione	X	X
	Flessione, taglio e forza assiale	X	X
4.2.4.1.3.1	Aste compresse	X	X
4.2.4.1.3.2	Instabilità flesso-torsionale		X
7.5.3	Sfruttamento per momento	X	
7.5.4	Sfruttamento per sforzo normale	X	
7.5.5	Sfruttamento per taglio da capacità flessionale	X	
7.5.9	Sfruttamento per taglio amplificato		X

Viene inoltre riportata la verifica della "Gerarchia delle resistenze trave-colonna" per ogni colonna, considerando piede e testa in entrambe le direzioni globali X e Y.

L' insieme delle verifiche sopra riportate è condotto sugli elementi purché dotati di sezione idonea come da tabella seguente:

Azione		SEZIONI GENERICHE	PROFILI SEMPLICI	PROFILI ACCOPPIATI
4.2.3.1	Classificazione automatica	L, doppio T, C, rettangolare cava, circolare cava	Tutti	Da profilo semplice
4.2.3.1	Classificazione di default 2	Circolare		
4.2.3.1	Classificazione di default 3	restanti		
4.2.4.1.2.1	Trazione	si	si	si
4.2.4.1.2.2	Compressione	si	si	si
4.2.4.1.2.4	Taglio	si	si	si

4.2.4.1.2.5	Torsione	si	si	si
	Flessione, taglio e forza assiale	si	si	si
4.2.4.1.3.1	Aste compresse	si	si	per elementi ravvicinati e a croce o coppie calastrellate
4.2.4.1.3.2	Travi inflesse	doppio T simmetrica	doppio T	no

Le verifiche sono riportate in tabelle con il significato sotto indicato; le verifiche sono espresse dal rapporto tra l' azione di progetto e la capacità ultima, pertanto la verifica ha esito positivo per rapporti non superiori all' unità.

Asta | Trave | Pilastro	numero dell'elemento
Stato	codice di verifica per resistenza, stabilità, svergolamento
Note	sezione e materiali adottati per l'elemento
V N	(ASTE) verifica come da par. 4.2.4.1.2 per punto (4.2.6) e (4.2.10)
V V/T	(TRAVI E PILASTRI) verifica di resistenza come da par. 4.2.4.1.2 per azioni taglio-torsione (4.2.16 e 4.2.28)
V N/M	(TRAVI E PILASTRI) verifica di resistenza come da par. 4.2.4.1.2 per azioni composte (4.2.33) con riduzione per taglio (4.2.40) ove richiesto
N | M3 | M2 | V2 | V3 | T	sollecitazioni di interesse per la verifica
V stab	(ASTE) verifica come da par. 4.2.4.1.3.1 per punto (4.2.41)
V stab	(TRAVI E PILASTRI) verifica come da par. 4.2.4.1.3 per punti (C4.2.32) o (C4.2.36) (membrature inflesse e compresse senza/con presenza di instabilità flesso-torsionale)
BetaxL | B22xL | B33xL	lunghezze libere di inflessione (se indicato riferiti al piano di normale 22 o 33 rispettivamente)
Snellezza	snellezza massima
Classe	classe del profilo
Chi mn	coefficiente di riduzione (della capacità) per la modalità di instabilità pertinente
Rif. cmb	combinazioni in cui si sono rispettivamente attinti i valori di verifica più elevati
V flst	(TRAVI E PILASTRI) verifica di stabilità come da par. 4.2.4.1.3.2 per punto (4.2.48)
B1-1 x L	Beta1-1 x L: interasse tra i ritegni torsionali
Chi LT	coefficiente di riduzione (della capacità) per la modalità di instabilità flesso-torsionale
Snell adim	Valore della snellezza adimensionale, utilizzato per il controllo previsto al par. 7.5.5
v.Omeg	Valore del rapporto capacità/domanda per l' azione di interesse (momento per travi e azione assiale per aste) utilizzato per l' amplificazione delle azioni
f.Om. N	Fattore di amplificazione delle azioni assiali per travi e colonne (prodotto di 1.1 x Omega x gamma rd materiale); utilizzato come specificato al par. 7.5.5
f.Om. T	Fattore di amplificazione delle azioni (assiali, flettenti e taglianti) per colonne (prodotto di 1.1 x Omega x gamma rd materiale); utilizzato come specificato al par. 7.5.4
V.7.5.4 M Ed	Verifica come prevista al punto 7.5.4 e valore dell' azione flettente
V.7.5.5 N Ed	Verifica come prevista al punto 7.5.5 e valore dell' azione assiale
V.7.5.6 V Ed,G V Ed,M	Verifica come prevista al punto 7.5.6 e valore dei tagli dovuti ai carichi e alla capacità
V.7.5.10 V Ed	Verifica come prevista al punto 7.5.10 e valore dell' azione di taglio
sovr. Xi (Xf, Yi, Yf)	Valore della sovraresistenza come prevista al par. 7.5.4.2 (i valori non sono normalizzati pertanto saranno maggiori uguali a gamma rd in base alla classe di duttilità)

Con riferimento al **Documento di Affidabilità** "Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST" - versione Settembre 2014, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
56	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO - METODO OMEGA
57	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO
58	LUCE LIBERA DI COLONNE IN ACCIAIO
59	SVERGOLAMENTO DI TRAVI IN ACCIAIO
61	ACCIAIO D.M. 2008
63	GERARCHIA RESISTENZE STRUTTURE IN ACCIAIO
64	STABILITA' DI ASTE COMPOSTE IN ACCIAIO
73	VALUTAZIONE EFFETTO P-□ SU PILASTRATA
74	VALUTAZIONE EFFETTO P-□ SU TELAIO 3D

Asta	Stato	Note	V N	N	V stab	N	Cl.	Beta x L	Snell.	LambDaS	Chi mn	v.Omeg	Rif. cmb
				kN		kN		cm					
2	ok	s=7,m=12	0.11	-95.4	0.44	-95.4	1	315.2	147.0	1.69	0.26	0.0	120,120
3	ok	s=7,m=12	0.14	-114.3	0.52	-114.3	1	315.2	147.0	1.69	0.26	0.0	118,118

4	ok s=7,m=12	0.10	-83.5	0.38	-83.5	1	315.2	147.0	1.69	0.26	0.0	120,120
5	ok s=7,m=12	0.10	-83.5	0.38	-83.5	1	315.2	147.0	1.69	0.26	0.0	122,122
6	ok s=7,m=12	0.10	-84.6	0.39	-84.6	1	315.2	147.0	1.69	0.26	0.0	134,134
7	ok s=7,m=12	0.10	-85.8	0.39	-85.8	1	315.2	147.0	1.69	0.26	0.0	131,131
8	ok s=7,m=12	0.10	-85.7	0.39	-85.7	1	315.2	147.0	1.69	0.26	0.0	136,136
9	ok s=7,m=12	0.11	-96.6	0.44	-96.6	1	315.2	147.0	1.69	0.26	0.0	131,131
10	ok s=7,m=12	0.11	-95.6	0.44	-95.6	1	315.2	147.0	1.69	0.26	0.0	125,125
11	ok s=7,m=12	0.17	-145.4	0.66	-145.4	1	315.2	147.0	1.69	0.26	0.0	127,127
12	ok s=7,m=12	0.12	-98.6	0.45	-98.6	1	315.2	147.0	1.69	0.26	0.0	125,125
13	ok s=7,m=12	0.13	-111.7	0.51	-111.7	1	315.2	147.0	1.69	0.26	0.0	127,127
14	ok s=7,m=12	0.13	-105.6	0.48	-105.6	1	315.2	147.0	1.69	0.26	0.0	143,143
15	ok s=7,m=12	0.14	-114.1	0.52	-114.1	1	315.2	147.0	1.69	0.26	0.0	146,146
16	ok s=7,m=12	0.16	-136.7	0.62	-136.7	1	315.2	147.0	1.69	0.26	0.0	146,146
17	ok s=7,m=12	0.14	-114.2	0.52	-114.2	1	315.2	147.0	1.69	0.26	0.0	120,120
18	ok s=7,m=12	0.18	-149.7	0.68	-149.7	1	315.2	147.0	1.69	0.26	0.0	118,118
19	ok s=7,m=12	0.15	-129.8	0.59	-129.8	1	315.2	147.0	1.69	0.26	0.0	115,115
20	ok s=7,m=12	0.13	-110.7	0.51	-110.7	1	315.2	147.0	1.69	0.26	0.0	136,136
21	ok s=7,m=12	0.06	-47.2			1	143.1	66.8	0.77	0.68	0.0	131,0
22	ok s=7,m=12	0.06	-47.1			1	143.1	66.8	0.77	0.68	0.0	136,0
23	ok s=7,m=12	0.06	-51.8			1	143.1	66.8	0.77	0.68	0.0	120,0
24	ok s=7,m=12	0.07	-54.8			1	143.1	66.8	0.77	0.68	0.0	122,0
25	ok s=7,m=12	0.12	-99.8	0.46	-99.8	1	315.2	147.0	1.69	0.26	0.0	125,125
26	ok s=7,m=12	0.19	-163.9	0.75	-163.9	1	315.2	147.0	1.69	0.26	0.0	130,130
27	ok s=7,m=12	0.14	-116.3	0.53	-116.3	1	315.2	147.0	1.69	0.26	0.0	145,145
28	ok s=7,m=12	0.20	-167.0	0.76	-167.0	1	315.2	147.0	1.69	0.26	0.0	127,127
29	ok s=7,m=12	0.06	-47.4			1	143.1	66.8	0.77	0.68	0.0	125,0
30	ok s=7,m=12	0.06	-53.6			1	143.1	66.8	0.77	0.68	0.0	145,0
31	ok s=7,m=12	0.07	-58.6			1	143.1	66.8	0.77	0.68	0.0	146,0
32	ok s=7,m=12	0.07	-57.5			1	143.1	66.8	0.77	0.68	0.0	127,0
33	ok s=7,m=12	0.04	37.3			1	128.0	59.7	0.69	0.73	0.0	143,0
34	ok s=7,m=12	0.04	36.7			1	128.0	59.7	0.69	0.73	0.0	130,0
35	ok s=7,m=12	0.03	29.2			1	128.0	59.7	0.69	0.73	0.0	134,0
36	ok s=7,m=12	0.04	32.2			1	128.0	59.7	0.69	0.73	0.0	119,0
37	ok s=9,m=12	0.03	-9.8	0.07	-9.8	1	160.0	109.0	1.26	0.41	0.0	120,120
38	ok s=9,m=12	0.02	-8.8			1	160.0	109.0	1.26	0.41	0.0	121,0
39	ok s=9,m=12	0.03	-11.4	0.08	-11.4	1	160.0	109.0	1.26	0.41	0.0	126,126
40	ok s=9,m=12	0.03	-10.6	0.07	-10.6	1	160.0	109.0	1.26	0.41	0.0	115,115
41	ok s=9,m=12	0.04	-12.5	0.09	-12.5	1	160.0	109.0	1.26	0.41	0.0	132,132
42	ok s=9,m=12	0.04	12.6	0.09	-12.4	1	160.0	109.0	1.26	0.41	0.0	136,137
43	ok s=7,m=12	0.12	-101.0	0.46	-101.0	1	315.2	147.0	1.69	0.26	0.0	145,145
44	ok s=9,m=12	0.02	-7.0			1	160.0	109.0	1.26	0.41	0.0	120,0
45	ok s=9,m=12	0.02	-5.4			1	160.0	109.0	1.26	0.41	0.0	121,0
46	ok s=9,m=12	0.03	-11.4	0.08	-11.4	1	160.0	109.0	1.26	0.41	0.0	126,126
47	ok s=9,m=12	0.03	-11.5	0.08	-11.5	1	160.0	109.0	1.26	0.41	0.0	115,115
48	ok s=9,m=12	0.04	-13.2	0.09	-13.2	1	160.0	109.0	1.26	0.41	0.0	136,136
49	ok s=9,m=12	0.04	13.2	0.09	-12.8	1	160.0	109.0	1.26	0.41	0.0	136,137
50	ok s=9,m=12	0.02	-6.9			1	160.0	109.0	1.26	0.41	0.0	120,0
51	ok s=9,m=12	0.02	-7.2			1	160.0	109.0	1.26	0.41	0.0	121,0
52	ok s=9,m=12	0.03	-11.9	0.08	-11.9	1	160.0	109.0	1.26	0.41	0.0	126,126
53	ok s=9,m=12	0.03	-11.4	0.08	-11.4	1	160.0	109.0	1.26	0.41	0.0	115,115
54	ok s=9,m=12	0.04	-13.4	0.09	-13.4	1	160.0	109.0	1.26	0.41	0.0	132,132
55	ok s=9,m=12	0.04	13.7	0.09	-13.4	1	160.0	109.0	1.26	0.41	0.0	136,137
56	ok s=9,m=12	0.03	-9.8	0.07	-9.8	1	160.0	109.0	1.26	0.41	0.0	120,120
57	ok s=9,m=12	0.03	-9.5	0.07	-9.5	1	160.0	109.0	1.26	0.41	0.0	121,121
58	ok s=9,m=12	0.04	-13.4	0.09	-13.4	1	160.0	109.0	1.26	0.41	0.0	125,125
59	ok s=9,m=12	0.04	-12.7	0.09	-12.7	1	160.0	109.0	1.26	0.41	0.0	123,123
60	ok s=9,m=12	0.05	-16.4	0.11	-16.4	1	160.0	109.0	1.26	0.41	0.0	132,132
61	ok s=9,m=12	0.05	17.0	0.12	-16.9	1	160.0	109.0	1.26	0.41	0.0	136,137
62	ok s=9,m=12	0.03	-10.3	0.07	-10.3	1	160.0	109.0	1.26	0.41	0.0	120,120
63	ok s=9,m=12	0.03	-9.9	0.07	-9.9	1	160.0	109.0	1.26	0.41	0.0	121,121
64	ok s=9,m=12	0.04	-13.7	0.09	-13.7	1	160.0	109.0	1.26	0.41	0.0	125,125
65	ok s=9,m=12	0.04	-13.3	0.09	-13.3	1	160.0	109.0	1.26	0.41	0.0	123,123
66	ok s=9,m=12	0.05	-17.0	0.12	-17.0	1	160.0	109.0	1.26	0.41	0.0	136,136
67	ok s=9,m=12	0.05	17.1	0.12	-16.7	1	160.0	109.0	1.26	0.41	0.0	136,137
68	ok s=9,m=12	0.03	-10.9	0.08	-10.9	1	160.0	109.0	1.26	0.41	0.0	120,120
69	ok s=9,m=12	0.03	-10.2	0.07	-10.2	1	160.0	109.0	1.26	0.41	0.0	121,121
70	ok s=9,m=12	0.04	-14.3	0.10	-14.3	1	160.0	109.0	1.26	0.41	0.0	125,125
71	ok s=9,m=12	0.04	-13.3	0.09	-13.3	1	160.0	109.0	1.26	0.41	0.0	123,123
72	ok s=9,m=12	0.05	-16.9	0.12	-16.9	1	160.0	109.0	1.26	0.41	0.0	132,132
73	ok s=9,m=12	0.05	17.5	0.12	-17.2	1	160.0	109.0	1.26	0.41	0.0	136,137
74	ok s=9,m=12	0.03	-12.0	0.08	-12.0	1	160.0	109.0	1.26	0.41	0.0	120,120
75	ok s=9,m=12	0.03	-11.4	0.08	-11.4	1	160.0	109.0	1.26	0.41	0.0	121,121
76	ok s=9,m=12	0.04	-14.3	0.10	-14.3	1	160.0	109.0	1.26	0.41	0.0	125,125
77	ok s=9,m=12	0.04	-14.2	0.10	-14.2	1	160.0	109.0	1.26	0.41	0.0	123,123
78	ok s=9,m=12	0.05	-18.4	0.13	-18.4	1	160.0	109.0	1.26	0.41	0.0	132,132
79	ok s=9,m=12	0.05	-18.1	0.13	-18.1	1	160.0	109.0	1.26	0.41	0.0	137,137
80	ok s=9,m=12	0.03	-12.0	0.08	-12.0	1	160.0	109.0	1.26	0.41	0.0	120,120

81	ok	s=9,m=12	0.03	-11.5	0.08	-11.5	1	160.0	109.0	1.26	0.41	0.0	121,121
82	ok	s=9,m=12	0.05	-16.9	0.12	-16.9	1	160.0	109.0	1.26	0.41	0.0	125,125
83	ok	s=9,m=12	0.04	-14.3	0.10	-14.3	1	160.0	109.0	1.26	0.41	0.0	123,123
84	ok	s=9,m=12	0.05	-17.6	0.12	-17.6	1	160.0	109.0	1.26	0.41	0.0	136,136
85	ok	s=9,m=12	0.06	21.8	0.15	-21.5	1	160.0	109.0	1.26	0.41	0.0	136,137
86	ok	s=9,m=12	0.04	-12.7	0.09	-12.7	1	160.0	109.0	1.26	0.41	0.0	120,120
87	ok	s=9,m=12	0.03	-11.5	0.08	-11.5	1	160.0	109.0	1.26	0.41	0.0	121,121
88	ok	s=9,m=12	0.04	-13.4	0.09	-13.4	1	160.0	109.0	1.26	0.41	0.0	125,125
89	ok	s=9,m=12	0.02	-7.5			1	160.0	109.0	1.26	0.41	0.0	124,0
90	ok	s=9,m=12	0.03	-8.8			1	160.0	109.0	1.26	0.41	0.0	136,0
91	ok	s=9,m=12	0.05	17.9	0.12	-17.5	1	160.0	109.0	1.26	0.41	0.0	136,137
92	ok	s=9,m=12	7.32e-03	2.6			1	143.1	97.5	1.12	0.47	0.0	137,0
93	ok	s=9,m=12	9.41e-03	-3.3			1	143.1	97.5	1.12	0.47	0.0	125,0
94	ok	s=9,m=12	0.02	-7.0			1	143.1	97.5	1.12	0.47	0.0	121,0
95	ok	s=9,m=12	0.02	-7.6			1	143.1	97.5	1.12	0.47	0.0	120,0
96	ok	s=9,m=12	8.50e-03	3.0			1	143.1	97.5	1.12	0.47	0.0	137,0
97	ok	s=9,m=12	0.02	5.9			1	143.1	97.5	1.12	0.47	0.0	136,0

Asta		V N	N	V stab	N	Beta x L	Snell.	LambDaS	Chi mn	v.Omeg	
			-167.01		-167.01			0.69	0.26	0.0	
		0.20	37.33	0.76		315.16	147.01	1.69		0.0	

Trave	Stato	Note	V V/T	V N/M	V stab	Cl.	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT	Rif. cmb
130	ok	s=2,m=12	0.24	0.04		1					0.03	7.32e-03	1.00	125,2,0,2
131	ok	s=2,m=12	4.37e-03	0.10		1					0.03	2.05e-02	1.00	2,124,0,125
133	ok	s=2,m=12	0.02	0.03		1					0.03	0.3	1.00	2,1,0,1
136	ok	s=2,m=12	0.02	0.03		1					0.03	0.3	1.00	6,6,0,1
139	ok	s=2,m=12	8.80e-03	0.06		1					0.03	0.4	1.00	144,115,0,144
140	ok	s=2,m=12	0.01	0.08		1					0.03	0.2	1.00	125,124,0,125
142	ok	s=2,m=12	7.67e-03	0.04		1					0.02	0.4	1.00	144,115,0,144
143	ok	s=2,m=12	0.01	0.10		1					0.03	0.2	1.00	125,124,0,125
148	ok	s=2,m=12	6.50e-03	0.07		1					0.04	0.2	1.00	137,140,0,133
149	ok	s=2,m=12	0.03	0.06		1					0.05	0.2	1.00	120,120,0,120
150	ok	s=2,m=12	0.02	0.05		1					0.03	0.2	1.00	120,120,0,120
151	ok	s=2,m=12	0.02	0.05		1					0.03	0.2	1.00	120,121,0,121
152	ok	s=2,m=12	0.04	0.07		1					0.06	0.2	1.00	120,116,0,120
153	ok	s=2,m=12	0.01	0.03		1					0.01	0.2	1.00	2,115,0,122
154	ok	s=2,m=12	0.01	0.03		1					0.01	0.2	1.00	6,135,0,131
155	ok	s=2,m=12	0.04	0.07		1					0.06	0.2	1.00	136,133,0,136
156	ok	s=2,m=12	0.02	0.05		1					0.03	0.2	1.00	136,137,0,137
157	ok	s=2,m=12	0.02	0.04		1					0.03	0.2	1.00	136,137,0,136
158	ok	s=2,m=12	0.03	0.06		1					0.05	0.2	1.00	136,136,0,136
159	ok	s=2,m=12	0.03	0.07		1					0.05	0.2	1.00	125,124,0,124
160	ok	s=2,m=12	0.03	0.26		1					0.06	0.2	1.00	2,124,0,2
161	ok	s=2,m=12	0.02	0.28		1					0.06	2.14e-02	1.00	125,124,0,124
162	ok	s=2,m=12	0.04	0.09		1					0.07	0.2	1.00	124,115,0,125
163	ok	s=2,m=12	0.01	0.06	0.10	1	1.8	0.2	158.0	0.23	0.02	0.2	1.00	115,125,130,127
164	ok	s=2,m=12	0.03	0.06		1					0.05	0.2	1.00	145,144,0,144
167	ok	s=2,m=12	0.04	0.07		1					0.07	0.2	1.00	144,145,0,145
168	ok	s=2,m=12	0.01	0.04	0.10	1	1.8	0.2	158.0	0.23	0.02	0.2	1.00	2,133,127,146
169	ok	s=2,m=12	0.03	0.08		1					0.05	0.2	1.00	120,120,0,120
170	ok	s=2,m=12	0.03	0.07		1					0.03	0.2	1.00	120,140,0,120
171	ok	s=2,m=12	0.03	0.07		1					0.03	0.2	1.00	120,132,0,120
172	ok	s=2,m=12	0.04	0.09		1					0.07	0.2	1.00	120,116,0,120
173	ok	s=2,m=12	0.01	0.05		1					0.02	0.2	1.00	140,115,0,120
174	ok	s=2,m=12	0.01	0.04		1					0.02	0.2	1.00	136,134,0,136
175	ok	s=2,m=12	0.04	0.13		1					0.07	0.2	1.00	136,132,0,136
176	ok	s=2,m=12	0.02	0.06		1					0.03	0.2	1.00	136,137,0,137
177	ok	s=2,m=12	0.03	0.06		1					0.03	0.2	1.00	132,137,0,131
178	ok	s=2,m=12	0.03	0.08		1					0.05	0.2	1.00	136,136,0,136
179	ok	s=2,m=12	0.03	0.10		1					0.05	0.2	1.00	125,137,0,125
180	ok	s=2,m=12	0.03	0.28		1					0.06	0.2	1.00	2,124,0,124
181	ok	s=2,m=12	0.21	0.04		1					9.48e-03	7.32e-03	1.00	124,124,0,2
182	ok	s=2,m=12	0.04	0.11		1					0.07	0.2	1.00	124,115,0,124
183	ok	s=2,m=12	0.01	0.08		1					0.03	0.2	1.00	125,133,0,125
184	ok	s=2,m=12	0.04	0.08		1					0.06	0.2	1.00	145,121,0,145
186	ok	s=2,m=12	0.05	0.02		1					0.01	7.32e-03	1.00	2,2,0,2
187	ok	s=2,m=12	0.05	0.10		1					0.08	0.2	1.00	144,140,0,144
188	ok	s=2,m=12	0.01	0.05		1					0.02	0.2	1.00	2,133,0,145
189	ok	s=2,m=12	0.03	0.10		1					0.07	0.1	1.00	140,140,0,140
190	ok	s=2,m=12	0.02	0.18		1					0.14	9.58e-02	1.00	137,141,0,137
191	ok	s=2,m=12	0.01	0.27		1					0.15	0.1	1.00	120,140,0,136
192	ok	s=2,m=12	0.03	0.40		1					0.15	0.1	1.00	120,121,0,136
193	ok	s=2,m=12	0.03	0.28		1					0.10	0.1	1.00	135,120,0,136
194	ok	s=2,m=12	0.02	0.25		1					0.07	0.1	1.00	132,136,0,136

195	ok	s=2,m=12	0.03	0.26	1	0.14	0.1	1.00	116,136,0,132
196	ok	s=2,m=12	0.02	0.15	1	0.12	0.1	1.00	118,136,0,118
197	ok	s=2,m=12	0.03	0.17	1	0.15	0.1	1.00	118,118,0,118
198	ok	s=2,m=12	0.02	0.13	1	0.06	0.1	1.00	118,136,0,118
199	ok	s=2,m=12	0.01	0.11	1	0.05	9.56e-02	1.00	133,125,0,145
200	ok	s=2,m=12	0.26	0.04	1	0.01	7.32e-03	1.00	124,2,0,2
201	ok	s=2,m=12	0.03	0.18	1	0.07	0.2	1.00	2,2,0,2
202	ok	s=2,m=12	0.06	0.37	1	0.23	0.1	1.00	115,126,0,115
203	ok	s=2,m=12	0.07	0.29	1	0.23	9.61e-02	1.00	135,126,0,115
206	ok	s=2,m=12	8.47e-03	0.05	1	0.04	0.2	1.00	115,115,0,115
208	ok	s=2,m=12	0.07	0.29	1	0.23	9.65e-02	1.00	118,118,0,118
211	ok	s=2,m=12	0.05	0.22	1	0.16	9.11e-02	1.00	2,2,0,2
213	ok	s=2,m=12	0.01	0.10	1	0.03	0.2	1.00	125,124,0,125
214	ok	s=2,m=12	0.01	6.86e-03	1	2.82e-03	7.32e-03	1.00	124,125,0,124
216	ok	s=2,m=12	0.14	0.04	1	0.03	7.32e-03	1.00	2,2,0,2
219	ok	s=2,m=12	0.01	4.10e-03	1	1.51e-03	0.2	1.00	133,115,0,2
220	ok	s=2,m=12	0.03	0.18	1	0.07	0.2	1.00	2,2,0,2
221	ok	s=2,m=12	8.11e-03	0.01	1	0.01	0.5	0.99	118,1,0,1
222	ok	s=2,m=12	0.08	0.24	1	0.24	9.09e-02	1.00	2,2,0,2
224	ok	s=2,m=12	0.02	0.02	1	4.76e-03	7.32e-03	1.00	125,125,0,125
225	ok	s=2,m=12	7.72e-03	0.09	1	0.02	0.4	1.00	124,134,0,124
226	ok	s=2,m=12	8.14e-03	0.07	1	0.02	0.4	1.00	118,134,0,124
240	ok	s=2,m=12	9.80e-03	0.01	1	0.01	0.3	1.00	125,123,0,1
241	ok	s=2,m=12	0.01	0.02	1	0.02	0.3	1.00	2,1,0,1
250	ok	s=2,m=12	0.01	0.17	1	9.10e-03	0.2	1.00	136,136,0,116
251	ok	s=2,m=12	0.01	0.12	1	2.00e-03	0.2	1.00	132,132,0,115
252	ok	s=2,m=12	7.47e-03	0.07	1	2.76e-03	0.2	1.00	132,132,0,136
253	ok	s=2,m=12	3.73e-03	0.07	1	2.23e-03	0.2	1.00	136,136,0,120
255	ok	s=2,m=12	2.86e-03	0.05	1	3.18e-03	0.2	1.00	126,134,0,123
256	ok	s=2,m=12	2.67e-03	0.03	1	2.80e-03	0.2	1.00	120,132,0,120
257	ok	s=6,m=12	0.01	0.02	1	3.85e-03	0.2	1.00	136,132,0,1
258	ok	s=2,m=12	3.04e-03	0.02	1	3.60e-03	0.2	1.00	126,131,0,123
276	ok	s=2,m=12	0.12	0.03	1	0.03	7.32e-03	1.00	2,2,0,2
277	ok	s=2,m=12	0.05	0.23	1	0.16	9.18e-02	1.00	125,125,0,2
278	ok	s=2,m=12	0.06	0.23	1	0.16	2.14e-02	1.00	125,125,0,2
279	ok	s=2,m=12	0.08	0.28	1	0.24	9.11e-02	1.00	2,2,0,2
280	ok	s=2,m=12	0.04	0.28	1	0.24	2.11e-02	1.00	2,2,0,2
281	ok	s=2,m=12	7.25e-03	0.10	1	0.03	2.06e-02	1.00	125,124,0,125
282	ok	s=2,m=12	0.01	0.10	1	0.03	0.2	1.00	125,124,0,125
283	ok	s=2,m=12	0.01	0.02	1	2.03e-03	7.32e-03	1.00	128,128,0,125
289	ok	s=6,m=12	0.02	6.19e-03	1	3.85e-03	0.2	1.00	136,137,0,1
290	ok	s=6,m=12	7.15e-03	5.09e-03	1	3.85e-03	0.2	1.00	136,117,0,1
291	ok	s=6,m=12	0.02	0.01	1	3.85e-03	0.2	1.00	136,117,0,1
292	ok	s=6,m=12	7.54e-03	0.01	1	3.85e-03	0.2	1.00	136,119,0,1
293	ok	s=6,m=12	0.01	7.26e-03	1	3.85e-03	0.2	1.00	136,137,0,1
294	ok	s=6,m=12	6.72e-03	6.63e-03	1	3.85e-03	0.2	1.00	136,118,0,1
295	ok	s=6,m=12	0.01	7.98e-03	1	3.85e-03	0.2	1.00	136,132,0,1
297	ok	s=6,m=12	0.01	0.01	1	3.85e-03	0.2	1.00	136,137,0,1
298	ok	s=6,m=12	6.14e-03	0.01	1	3.85e-03	0.2	1.00	136,117,0,1
299	ok	s=6,m=12	0.02	9.77e-03	1	3.85e-03	0.2	1.00	136,136,0,1
300	ok	s=6,m=12	6.35e-03	6.31e-03	1	3.85e-03	0.2	1.00	136,136,0,1
301	ok	s=6,m=12	0.02	0.01	1	3.85e-03	0.2	1.00	136,137,0,1
302	ok	s=6,m=12	4.37e-03	0.01	1	3.85e-03	0.2	1.00	136,118,0,1
303	ok	s=6,m=12	0.02	0.01	1	3.85e-03	0.2	1.00	136,132,0,1
305	ok	s=6,m=12	8.81e-03	0.02	1	3.85e-03	0.2	1.00	136,137,0,1
306	ok	s=6,m=12	3.30e-03	0.02	1	3.85e-03	0.2	1.00	136,137,0,1
307	ok	s=6,m=12	9.12e-03	0.02	1	3.85e-03	0.2	1.00	136,136,0,1
308	ok	s=6,m=12	3.62e-03	6.62e-03	1	3.85e-03	0.2	1.00	136,136,0,1
309	ok	s=6,m=12	9.03e-03	0.02	1	3.85e-03	0.2	1.00	136,115,0,1
357	ok	s=2,m=12	0.11	0.02	1	0.02	7.32e-03	1.00	2,2,0,2
358	ok	s=2,m=12	0.06	0.26	1	0.18	9.33e-02	1.00	145,145,0,145
359	ok	s=2,m=12	0.09	0.26	1	0.18	2.09e-02	1.00	145,145,0,145
362	ok	s=2,m=12	0.07	0.23	1	0.22	9.12e-02	1.00	2,2,0,2
365	ok	s=2,m=12	0.03	0.24	1	0.22	2.14e-02	1.00	143,2,0,2
366	ok	s=2,m=12	9.66e-03	0.11	1	0.04	2.07e-02	1.00	144,144,0,145
367	ok	s=2,m=12	0.01	0.11	1	0.04	0.2	1.00	145,144,0,145
368	ok	s=2,m=12	0.01	0.01	1	2.68e-03	7.32e-03	1.00	145,142,0,145
370	ok	s=2,m=12	0.23	0.03	1	0.03	7.32e-03	1.00	145,2,0,2
371	ok	s=2,m=12	0.01	0.11	1	0.04	0.2	1.00	145,144,0,145
372	ok	s=2,m=12	0.02	0.02	1	4.53e-03	7.32e-03	1.00	145,145,0,145
373	ok	s=2,m=12	0.06	0.23	1	0.16	9.24e-02	1.00	145,145,0,145
374	ok	s=2,m=12	0.11	0.02	1	0.02	7.32e-03	1.00	145,2,0,2
377	ok	s=2,m=12	0.15	0.04	1	0.03	7.32e-03	1.00	145,2,0,2
378	ok	s=2,m=12	0.07	0.24	1	0.22	9.12e-02	1.00	2,2,0,2
380	ok	s=2,m=12	0.01	0.08	1	0.03	0.2	1.00	145,145,0,145
394	ok	s=2,m=12	0.01	0.07	1	0.03	0.2	1.00	145,145,0,145
395	ok	s=2,m=12	0.02	0.02	1	5.51e-03	7.32e-03	1.00	145,141,0,145

400	ok	s=2,m=12	0.01	0.01	1			2.83e-03	7.32e-03	1.00	144,8,0,144
404	ok	s=2,m=12	0.02	0.01	1			3.85e-03	7.32e-03	1.00	125,125,0,125
405	ok	s=2,m=12	0.10	0.02	1			0.02	7.32e-03	1.00	2,2,0,2
406	ok	s=2,m=12	5.86e-03	0.08	1			0.03	1.91e-02	1.00	143,145,0,145
411	ok	s=2,m=12	0.07	0.02	1			0.01	7.32e-03	1.00	2,2,0,2
412	ok	s=2,m=12	0.05	0.21	1			0.14	0.2	1.00	144,144,0,144
413	ok	s=2,m=12	0.04	0.26	1			0.14	2.14e-02	1.00	145,144,0,144
414	ok	s=2,m=12	0.05	0.26	1			0.13	0.2	1.00	144,144,0,144
415	ok	s=2,m=12	0.06	0.03	1			0.01	7.32e-03	1.00	144,144,0,144
416	ok	s=2,m=12	0.05	0.04	1			0.01	7.32e-03	1.00	2,2,0,2
417	ok	s=2,m=12	0.03	0.15	1			0.07	0.2	1.00	2,145,0,2
418	ok	s=2,m=12	0.03	0.15	1			0.07	0.2	1.00	2,145,0,2
419	ok	s=2,m=12	5.06e-03	0.01	1			0.01	0.5	0.99	5,1,0,1
420	ok	s=2,m=12	0.01	0.10	1			0.06	0.1	1.00	118,139,0,131
426	ok	s=2,m=12	7.71e-03	4.39e-03	1			1.51e-03	0.2	1.00	121,117,0,1
427	ok	s=2,m=12	0.02	0.01	1			0.01	0.3	1.00	143,118,0,1
428	ok	s=2,m=12	0.06	0.37	1			0.23	0.1	1.00	118,139,0,118
430	ok	s=2,m=12	0.02	0.02	1			0.02	0.3	1.00	145,1,0,1

Trave	V V/T	V N/M	V stab	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT
							0.23			0.99
	0.26	0.40	0.10	1.82	0.22	157.97		0.24	0.48	

Trave	v.Omeg	f.Om. N	Stato	V N/M	V stab	Rif. cmb	V[7.5.4]	M Ed	V[7.5.5]	N Ed	V[7.5.6]	V Ed,G	V Ed,M
								kN m		kN		kN	kN
130							0.0	0.0	0.0	0.0	0.0	0.0	0.0
131							0.0	0.0	0.0	0.0	0.0	0.0	0.0
133							0.0	0.0	0.0	0.0	0.0	0.0	0.0
136							0.0	0.0	0.0	0.0	0.0	0.0	0.0
139							0.0	0.0	0.0	0.0	0.0	0.0	0.0
140							0.0	0.0	0.0	0.0	0.0	0.0	0.0
142							0.0	0.0	0.0	0.0	0.0	0.0	0.0
143							0.0	0.0	0.0	0.0	0.0	0.0	0.0
148							0.0	0.0	0.0	0.0	0.0	0.0	0.0
149							0.0	0.0	0.0	0.0	0.0	0.0	0.0
150							0.0	0.0	0.0	0.0	0.0	0.0	0.0
151							0.0	0.0	0.0	0.0	0.0	0.0	0.0
152							0.0	0.0	0.0	0.0	0.0	0.0	0.0
153							0.0	0.0	0.0	0.0	0.0	0.0	0.0
154							0.0	0.0	0.0	0.0	0.0	0.0	0.0
155							0.0	0.0	0.0	0.0	0.0	0.0	0.0
156							0.0	0.0	0.0	0.0	0.0	0.0	0.0
157							0.0	0.0	0.0	0.0	0.0	0.0	0.0
158							0.0	0.0	0.0	0.0	0.0	0.0	0.0
159							0.0	0.0	0.0	0.0	0.0	0.0	0.0
160							0.0	0.0	0.0	0.0	0.0	0.0	0.0
161							0.0	0.0	0.0	0.0	0.0	0.0	0.0
162							0.0	0.0	0.0	0.0	0.0	0.0	0.0
163							0.0	0.0	0.0	0.0	0.0	0.0	0.0
164							0.0	0.0	0.0	0.0	0.0	0.0	0.0
167							0.0	0.0	0.0	0.0	0.0	0.0	0.0
168							0.0	0.0	0.0	0.0	0.0	0.0	0.0
169							0.0	0.0	0.0	0.0	0.0	0.0	0.0
170							0.0	0.0	0.0	0.0	0.0	0.0	0.0
171							0.0	0.0	0.0	0.0	0.0	0.0	0.0
172							0.0	0.0	0.0	0.0	0.0	0.0	0.0
173							0.0	0.0	0.0	0.0	0.0	0.0	0.0
174							0.0	0.0	0.0	0.0	0.0	0.0	0.0
175							0.0	0.0	0.0	0.0	0.0	0.0	0.0
176							0.0	0.0	0.0	0.0	0.0	0.0	0.0
177							0.0	0.0	0.0	0.0	0.0	0.0	0.0
178							0.0	0.0	0.0	0.0	0.0	0.0	0.0
179							0.0	0.0	0.0	0.0	0.0	0.0	0.0
180							0.0	0.0	0.0	0.0	0.0	0.0	0.0
181							0.0	0.0	0.0	0.0	0.0	0.0	0.0
182							0.0	0.0	0.0	0.0	0.0	0.0	0.0
183							0.0	0.0	0.0	0.0	0.0	0.0	0.0
184							0.0	0.0	0.0	0.0	0.0	0.0	0.0
186							0.0	0.0	0.0	0.0	0.0	0.0	0.0
187							0.0	0.0	0.0	0.0	0.0	0.0	0.0
188							0.0	0.0	0.0	0.0	0.0	0.0	0.0
189							0.0	0.0	0.0	0.0	0.0	0.0	0.0
190							0.0	0.0	0.0	0.0	0.0	0.0	0.0
191							0.0	0.0	0.0	0.0	0.0	0.0	0.0
192							0.0	0.0	0.0	0.0	0.0	0.0	0.0
193							0.0	0.0	0.0	0.0	0.0	0.0	0.0

194	0.0	0.0	0.0	0.0	0.0	0.0	0.0
195	0.0	0.0	0.0	0.0	0.0	0.0	0.0
196	0.0	0.0	0.0	0.0	0.0	0.0	0.0
197	0.0	0.0	0.0	0.0	0.0	0.0	0.0
198	0.0	0.0	0.0	0.0	0.0	0.0	0.0
199	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200	0.0	0.0	0.0	0.0	0.0	0.0	0.0
201	0.0	0.0	0.0	0.0	0.0	0.0	0.0
202	0.0	0.0	0.0	0.0	0.0	0.0	0.0
203	0.0	0.0	0.0	0.0	0.0	0.0	0.0
206	0.0	0.0	0.0	0.0	0.0	0.0	0.0
208	0.0	0.0	0.0	0.0	0.0	0.0	0.0
211	0.0	0.0	0.0	0.0	0.0	0.0	0.0
213	0.0	0.0	0.0	0.0	0.0	0.0	0.0
214	0.0	0.0	0.0	0.0	0.0	0.0	0.0
216	0.0	0.0	0.0	0.0	0.0	0.0	0.0
219	0.0	0.0	0.0	0.0	0.0	0.0	0.0
220	0.0	0.0	0.0	0.0	0.0	0.0	0.0
221	0.0	0.0	0.0	0.0	0.0	0.0	0.0
222	0.0	0.0	0.0	0.0	0.0	0.0	0.0
224	0.0	0.0	0.0	0.0	0.0	0.0	0.0
225	0.0	0.0	0.0	0.0	0.0	0.0	0.0
226	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240	0.0	0.0	0.0	0.0	0.0	0.0	0.0
241	0.0	0.0	0.0	0.0	0.0	0.0	0.0
250	0.0	0.0	0.0	0.0	0.0	0.0	0.0
251	0.0	0.0	0.0	0.0	0.0	0.0	0.0
252	0.0	0.0	0.0	0.0	0.0	0.0	0.0
253	0.0	0.0	0.0	0.0	0.0	0.0	0.0
255	0.0	0.0	0.0	0.0	0.0	0.0	0.0
256	0.0	0.0	0.0	0.0	0.0	0.0	0.0
257	0.0	0.0	0.0	0.0	0.0	0.0	0.0
258	0.0	0.0	0.0	0.0	0.0	0.0	0.0
276	0.0	0.0	0.0	0.0	0.0	0.0	0.0
277	0.0	0.0	0.0	0.0	0.0	0.0	0.0
278	0.0	0.0	0.0	0.0	0.0	0.0	0.0
279	0.0	0.0	0.0	0.0	0.0	0.0	0.0
280	0.0	0.0	0.0	0.0	0.0	0.0	0.0
281	0.0	0.0	0.0	0.0	0.0	0.0	0.0
282	0.0	0.0	0.0	0.0	0.0	0.0	0.0
283	0.0	0.0	0.0	0.0	0.0	0.0	0.0
289	0.0	0.0	0.0	0.0	0.0	0.0	0.0
290	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291	0.0	0.0	0.0	0.0	0.0	0.0	0.0
292	0.0	0.0	0.0	0.0	0.0	0.0	0.0
293	0.0	0.0	0.0	0.0	0.0	0.0	0.0
294	0.0	0.0	0.0	0.0	0.0	0.0	0.0
295	0.0	0.0	0.0	0.0	0.0	0.0	0.0
297	0.0	0.0	0.0	0.0	0.0	0.0	0.0
298	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301	0.0	0.0	0.0	0.0	0.0	0.0	0.0
302	0.0	0.0	0.0	0.0	0.0	0.0	0.0
303	0.0	0.0	0.0	0.0	0.0	0.0	0.0
305	0.0	0.0	0.0	0.0	0.0	0.0	0.0
306	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307	0.0	0.0	0.0	0.0	0.0	0.0	0.0
308	0.0	0.0	0.0	0.0	0.0	0.0	0.0
309	0.0	0.0	0.0	0.0	0.0	0.0	0.0
357	0.0	0.0	0.0	0.0	0.0	0.0	0.0
358	0.0	0.0	0.0	0.0	0.0	0.0	0.0
359	0.0	0.0	0.0	0.0	0.0	0.0	0.0
362	0.0	0.0	0.0	0.0	0.0	0.0	0.0
365	0.0	0.0	0.0	0.0	0.0	0.0	0.0
366	0.0	0.0	0.0	0.0	0.0	0.0	0.0
367	0.0	0.0	0.0	0.0	0.0	0.0	0.0
368	0.0	0.0	0.0	0.0	0.0	0.0	0.0
370	0.0	0.0	0.0	0.0	0.0	0.0	0.0
371	0.0	0.0	0.0	0.0	0.0	0.0	0.0
372	0.0	0.0	0.0	0.0	0.0	0.0	0.0
373	0.0	0.0	0.0	0.0	0.0	0.0	0.0
374	0.0	0.0	0.0	0.0	0.0	0.0	0.0
377	0.0	0.0	0.0	0.0	0.0	0.0	0.0
378	0.0	0.0	0.0	0.0	0.0	0.0	0.0
380	0.0	0.0	0.0	0.0	0.0	0.0	0.0
394	0.0	0.0	0.0	0.0	0.0	0.0	0.0

395				0.0	0.0	0.0	0.0	0.0	0.0	0.0
400				0.0	0.0	0.0	0.0	0.0	0.0	0.0
404				0.0	0.0	0.0	0.0	0.0	0.0	0.0
405				0.0	0.0	0.0	0.0	0.0	0.0	0.0
406				0.0	0.0	0.0	0.0	0.0	0.0	0.0
411				0.0	0.0	0.0	0.0	0.0	0.0	0.0
412				0.0	0.0	0.0	0.0	0.0	0.0	0.0
413				0.0	0.0	0.0	0.0	0.0	0.0	0.0
414				0.0	0.0	0.0	0.0	0.0	0.0	0.0
415				0.0	0.0	0.0	0.0	0.0	0.0	0.0
416				0.0	0.0	0.0	0.0	0.0	0.0	0.0
417				0.0	0.0	0.0	0.0	0.0	0.0	0.0
418				0.0	0.0	0.0	0.0	0.0	0.0	0.0
419				0.0	0.0	0.0	0.0	0.0	0.0	0.0
420				0.0	0.0	0.0	0.0	0.0	0.0	0.0
426				0.0	0.0	0.0	0.0	0.0	0.0	0.0
427				0.0	0.0	0.0	0.0	0.0	0.0	0.0
428				0.0	0.0	0.0	0.0	0.0	0.0	0.0
430				0.0	0.0	0.0	0.0	0.0	0.0	0.0

Trave	v.Omeg	V N/M	V stab	V[7.5.4]	M Ed	V[7.5.5]	N Ed	V[7.5.6]	V Ed,G	V Ed,M
					0.0		0.0		0.0	0.0
				0.0	0.0	0.0	0.0	0.0	0.0	0.0

Pilas.	Stato	Note	V V/T	V N/M	V stab	Cl.	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT	Rif. cmb
98	ok	s=2,m=12	4.13e-03	0.10	0.39	1	1.6	1.0	142.2	0.27	0.02	0.3	1.00	141,131,137,118
99	ok	s=2,m=12	2.00e-03	0.05	0.14	1	1.6	1.0	142.2	0.27	0.02	0.2	1.00	118,136,131,118
100	ok	s=10,m=12	0.02	0.15	0.15	1	1.1	1.1	96.4	0.59				141,144,144,0
101	ok	s=2,m=12	2.93e-03	0.24		1					0.03	8.24e-02	1.00	115,131,0,115
102	ok	s=2,m=12	2.37e-03	0.07		1					1.45e-03	8.79e-02	1.00	136,136,0,120
103	ok	s=2,m=12	7.21e-03	0.08		1					0.02	6.06e-02	1.00	123,123,0,124
104	ok	s=2,m=12	4.68e-03	0.10		1					6.37e-03	9.03e-02	1.00	136,136,0,124
105	ok	s=2,m=12	1.52e-03	0.06		1					3.62e-03	8.85e-02	1.00	132,136,0,115
106	ok	s=2,m=12	2.31e-03	0.08	0.14	1	2.0	1.2	173.8	0.20	0.03	0.4	1.00	124,136,136,124
107	ok	s=2,m=12	4.23e-03	0.10		1					0.01	0.2	1.00	136,132,0,126
108	ok	s=2,m=12	1.40e-03	0.07		1					0.01	0.2	1.00	136,136,0,124
109	ok	s=10,m=12	0.02	0.13	0.15	1	1.4	1.4	117.8	0.44				123,124,124,0
110	ok	s=10,m=12	0.02	0.11		1								123,124,0,0
111	ok	s=10,m=12	0.01	0.12		1								125,119,0,0
112	ok	s=2,m=12	9.69e-03	0.13	0.17	1	2.0	1.2	173.8	0.20	0.09	0.4	1.00	134,132,137,132
113	ok	s=2,m=12	3.88e-03	0.10		1					0.04	0.3	1.00	124,128,0,115
114	ok	s=2,m=12	4.91e-03	0.07		1					0.04	0.2	1.00	115,137,0,115
115	ok	s=2,m=12	0.02	0.22		1					0.18	0.2	1.00	134,137,0,134
116	ok	s=2,m=12	4.78e-03	0.09		1					0.05	0.3	1.00	125,118,0,125
117	ok	s=2,m=12	5.28e-03	0.17		1					0.06	0.3	1.00	123,115,0,123
118	ok	s=2,m=12	0.03	0.27	0.29	1	1.5	0.9	128.5	0.32	0.22	0.3	1.00	118,118,115,134
119	ok	s=2,m=12	0.02	0.22	0.19	1	1.1	0.7	97.0	0.48	0.17	0.2	1.00	134,118,128,115
120	ok	s=2,m=12	0.02	0.16		1					0.13	0.2	1.00	115,131,0,115
121	ok	s=2,m=12	0.02	0.30		1					0.14	7.96e-02	1.00	118,127,0,134
122	ok	s=2,m=12	9.87e-03	0.13	0.33	1	1.1	0.7	97.0	0.48	0.08	0.2	1.00	132,129,123,118
123	ok	s=2,m=12	0.01	0.15	0.21	1	1.6	1.0	142.2	0.27	0.07	0.2	1.00	117,129,123,118
124	ok	s=10,m=12	0.04	0.41		1								118,145,0,0
125	ok	s=10,m=12	0.03	0.15	0.22	1	1.1	1.1	96.4	0.59				118,145,145,0
126	ok	s=10,m=12	0.02	0.12	0.11	1	1.1	1.1	96.4	0.59				118,143,141,0
127	ok	s=10,m=12	0.01	0.13		1								142,144,0,0
129	ok	s=2,m=12	0.02	0.28		1					0.04	0.1	1.00	132,136,0,116
132	ok	s=10,m=12	0.01	0.17		1								139,119,0,0
134	ok	s=2,m=12	7.21e-03	0.06		1					0.06	0.2	1.00	123,123,0,123
135	ok	s=2,m=12	0.02	0.26		1					0.02	0.1	1.00	117,117,0,133
137	ok	s=10,m=12	0.01	0.13		1								122,130,0,0
138	ok	s=10,m=12	7.20e-03	0.12		1								129,126,0,0
141	ok	s=2,m=12	0.03	0.30		1					8.92e-03	0.1	1.00	120,120,0,118
144	ok	s=2,m=12	0.02	0.24		1					0.02	0.2	1.00	143,143,0,117
145	ok	s=2,m=12	8.23e-03	0.13	0.18	1	2.0	1.2	173.8	0.20	0.08	0.4	1.00	116,120,141,116
146	ok	s=2,m=12	4.15e-03	0.10		1					0.03	0.3	1.00	144,141,0,117
147	ok	s=2,m=12	3.57e-03	0.08		1					0.03	0.2	1.00	117,141,0,117
165	ok	s=2,m=12	0.01	0.06		1					0.06	0.2	1.00	2,123,0,123
204	ok	s=2,m=12	0.01	0.12		1					0.08	0.4	1.00	118,121,0,118
205	ok	s=2,m=12	0.02	0.08		1					0.05	0.1	1.00	118,125,0,115
207	ok	s=2,m=12	0.02	0.15	0.11	1	1.1	0.7	97.0	0.48	0.10	0.2	1.00	116,145,2,118
212	ok	s=2,m=12	4.01e-03	0.09		1					0.05	0.2	1.00	123,118,0,125
215	ok	s=2,m=12	4.72e-03	0.13		1					0.04	0.2	1.00	123,123,0,127
223	ok	s=2,m=12	0.01	0.17	0.15	1	1.6	1.0	142.2	0.27	0.09	0.4	1.00	127,115,121,128
231	ok	s=2,m=12	6.15e-03	0.12	0.32	1	1.1	0.7	97.0	0.48	0.04	0.2	1.00	145,146,146,118
237	ok	s=2,m=12	5.92e-03	0.13	0.22	1	1.6	1.0	142.2	0.27	0.04	0.2	1.00	145,145,146,115

244	ok	s=3,m=12	5.03e-03	0.12		3								136,118,0,0
245	ok	s=3,m=12	8.13e-03	0.05		3								136,118,0,0
246	ok	s=3,m=12	3.00e-03	0.02		3								124,134,0,0
247	ok	s=3,m=12	2.95e-03	0.04		3								136,137,0,0
248	ok	s=3,m=12	7.87e-03	0.08		3								136,137,0,0
249	ok	s=3,m=12	4.72e-03	0.04		3								136,137,0,0
254	ok	s=2,m=12	3.02e-03	0.06	0.11	1	1.6	1.0	142.2	0.27	0.02	0.2	1.00	137,116,122,137
267	ok	s=2,m=12	0.01	0.12	0.16	1	2.0	1.2	173.8	0.20	0.10	0.2	1.00	125,125,124,125
275	ok	s=2,m=12	3.53e-03	0.13	0.07	1	1.5	0.9	128.5	0.32	4.16e-03	0.3	1.00	134,138,2,2
284	ok	s=2,m=12	0.02	0.18	0.13	1	1.5	0.9	128.5	0.32	0.09	0.2	1.00	128,115,2,128
296	ok	s=10,m=12	0.02	0.41		1								132,132,0,0
304	ok	s=10,m=12	0.03	0.15	0.21	1	1.1	1.1	96.4	0.59				140,140,140,0
310	ok	s=2,m=12	1.93e-03	0.06		1					7.73e-03	7.23e-02	1.00	136,120,0,118
311	ok	s=2,m=12	4.88e-03	0.04		1					3.34e-03	9.61e-02	1.00	136,136,0,115
312	ok	s=2,m=12	2.05e-03	0.04		1					4.14e-03	9.04e-02	1.00	121,136,0,117
313	ok	s=2,m=12	2.28e-03	0.07		1					0.01	9.55e-02	1.00	124,123,0,124
314	ok	s=2,m=12	4.50e-03	0.04		1					5.10e-03	0.1	1.00	136,115,0,136
315	ok	s=2,m=12	1.19e-03	0.04		1					1.79e-03	9.47e-02	1.00	132,136,0,136
316	ok	s=3,m=12	5.03e-03	0.09		3								136,134,0,0
317	ok	s=3,m=12	8.13e-03	0.04		3								136,134,0,0
318	ok	s=3,m=12	3.00e-03	0.01		3								124,118,0,0
319	ok	s=3,m=12	2.95e-03	0.02		3								136,137,0,0
320	ok	s=3,m=12	7.87e-03	0.06		3								136,137,0,0
321	ok	s=3,m=12	0.01	0.06		3								136,137,0,0
322	ok	s=2,m=12	1.87e-03	0.05		1					5.53e-03	9.40e-02	1.00	136,120,0,115
323	ok	s=2,m=12	5.43e-03	0.11		1					2.79e-03	0.1	1.00	136,136,0,115
324	ok	s=2,m=12	0.01	0.08		1					0.03	7.29e-02	1.00	117,116,0,117
325	ok	s=2,m=12	2.18e-03	0.06		1					0.01	9.83e-02	1.00	136,123,0,124
326	ok	s=2,m=12	3.93e-03	0.08		1					4.00e-03	0.1	1.00	136,136,0,124
327	ok	s=2,m=12	2.14e-03	0.03		1					1.09e-03	8.68e-02	1.00	142,142,0,115
328	ok	s=3,m=12	5.03e-03	0.08		3								136,134,0,0
329	ok	s=3,m=12	8.13e-03	0.03		3								136,134,0,0
330	ok	s=3,m=12	3.00e-03	0.01		3								124,118,0,0
331	ok	s=3,m=12	2.95e-03	0.01		3								136,137,0,0
332	ok	s=3,m=12	7.87e-03	0.05		3								136,137,0,0
333	ok	s=3,m=12	0.02	0.25		3								134,137,0,0
334	ok	s=2,m=12	2.67e-03	0.05		1					5.38e-03	9.35e-02	1.00	136,137,0,115
335	ok	s=2,m=12	2.36e-03	0.05		1					8.02e-03	9.75e-02	1.00	137,123,0,124
336	ok	s=3,m=12	5.03e-03	0.07		3								136,134,0,0
337	ok	s=3,m=12	6.78e-03	0.12	0.15	3	0.7	0.4	61.3	0.78				136,137,137,0
338	ok	s=3,m=12	6.78e-03	0.10		3								136,137,0,0
348	ok	s=2,m=12	4.41e-03	0.14	0.19	1	2.0	1.2	173.8	0.20	0.05	0.3	1.00	120,141,144,120
350	ok	s=10,m=12	0.02	0.14	0.13	1	1.4	1.4	117.8	0.44				136,140,140,0
356	ok	s=2,m=12	0.01	0.09	0.07	1	1.5	0.9	128.5	0.32	0.09	0.2	1.00	115,119,2,115
363	ok	s=2,m=12	0.01	0.14		1					0.09	0.2	1.00	115,121,0,115
364	ok	s=2,m=12	0.02	0.23	0.25	1	1.5	0.9	128.5	0.32	0.16	0.3	1.00	115,121,120,116
369	ok	s=2,m=12	0.02	0.18	0.19	1	1.5	0.9	128.5	0.32	0.16	0.3	1.00	115,120,141,116
375	ok	s=2,m=12	0.01	0.31		1					0.11	8.00e-02	1.00	115,146,0,115
376	ok	s=2,m=12	0.01	0.08		1					0.03	0.1	1.00	115,145,0,116
379	ok	s=2,m=12	0.02	0.21	0.17	1	1.6	1.0	142.2	0.27	0.10	0.3	1.00	115,142,139,118
381	ok	s=2,m=12	0.01	0.22	0.53	1	1.1	0.7	97.0	0.48	0.09	0.2	1.00	115,146,146,115
382	ok	s=2,m=12	7.80e-03	0.18	0.74	1	1.6	1.0	142.2	0.27	0.07	0.3	1.00	136,121,121,136
383	ok	s=10,m=12	0.02	0.25	0.36	1	1.1	1.1	96.4	0.59				132,132,132,0
384	ok	s=2,m=12	2.93e-03	0.17	0.67	1	1.6	1.0	142.2	0.27	0.03	0.3	1.00	115,131,131,115
385	ok	s=2,m=12	0.02	0.22	0.53	1	1.1	0.7	97.0	0.48	0.11	0.2	1.00	118,123,123,134
386	ok	s=10,m=12	0.04	0.26	0.40	1	1.1	1.1	96.4	0.59				118,145,145,0
390	ok	s=2,m=12	0.01	0.15		1					0.10	0.3	1.00	115,140,0,116
392	ok	s=2,m=12	0.01	0.22	0.30	1	0.5	0.3	45.2	0.83	0.03	0.1	1.00	115,146,146,124
393	ok	s=2,m=12	9.54e-03	0.11		1					0.05	0.2	1.00	115,145,0,118
396	ok	s=2,m=12	0.01	0.07		1					0.02	5.38e-02	1.00	120,132,0,120
397	ok	s=2,m=12	5.07e-03	0.11		1					4.55e-03	8.86e-02	1.00	136,136,0,120
398	ok	s=2,m=12	0.02	0.22		1					0.17	9.94e-02	1.00	133,118,0,115
399	ok	s=2,m=12	0.02	0.22	0.29	1	0.5	0.3	45.2	0.83	0.03	0.1	1.00	118,123,127,115
403	ok	s=2,m=12	9.20e-03	0.13		1					0.08	0.1	1.00	125,129,0,118
407	ok	s=2,m=12	4.04e-03	0.16		1					7.60e-03	0.3	1.00	145,145,0,144
408	ok	s=10,m=12	0.02	0.11		1								137,140,0,0
421	ok	s=2,m=12	6.99e-03	0.13		1					0.05	7.55e-02	1.00	2,146,0,115
422	ok	s=2,m=12	4.91e-03	0.11		1					0.05	0.3	1.00	118,145,0,118
423	ok	s=2,m=12	8.19e-03	0.15		1					0.10	9.31e-02	1.00	121,120,0,118
424	ok	s=2,m=12	9.32e-03	0.21		1					0.10	0.3	1.00	118,142,0,118
425	ok	s=2,m=12	3.80e-03	0.16		1					7.60e-03	0.2	1.00	145,145,0,144
429	ok	s=10,m=12	8.94e-03	0.08		1								126,126,0,0
433	ok	s=2,m=12	6.86e-03	0.13	0.16	1	2.0	1.2	173.8	0.20	0.08	0.3	1.00	140,140,140,140
434	ok	s=2,m=12	4.32e-03	0.10		1					0.02	0.2	1.00	120,120,0,140
435	ok	s=2,m=12	2.15e-03	0.07		1					0.02	0.2	1.00	140,140,0,140
436	ok	s=2,m=12	9.73e-03	0.15	0.17	1	2.0	1.2	173.8	0.20	0.10	0.3	1.00	144,140,141,144
437	ok	s=2,m=12	5.35e-03	0.12		1					0.04	0.3	1.00	144,120,0,145

438	ok	s=2,m=12	4.39e-03	0.09		1					0.04	0.2	1.00	145,140,0,145
439	ok	s=2,m=12	0.01	0.16	0.22	1	2.0	1.2	173.8	0.20	0.11	0.4	1.00	136,132,121,136
440	ok	s=2,m=12	5.62e-03	0.13	0.15	1	1.6	1.0	142.2	0.27	0.04	0.3	1.00	136,120,121,135
441	ok	s=2,m=12	5.22e-03	0.14		1					0.04	0.3	1.00	135,120,0,135
442	ok	s=2,m=12	7.80e-03	0.26		1					0.08	8.18e-02	1.00	136,122,0,136
443	ok	s=2,m=12	4.47e-03	0.09	0.39	1	1.6	1.0	142.2	0.27	0.02	0.3	1.00	140,121,121,137

Pilas.	V V/T	V N/M	V stab	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT
							0.20			1.00
	0.04	0.41	0.74	2.00	1.36	173.77		0.22	0.38	

Pilas.	f.Om. N	f.Om. T	Stato	V V/T	V N/M	V stab	V flst	Rif. cmbV[7.5.10]	V Ed kN	sovr. Xi	sovr. Xf	sovr. Yi	sovr. Yf
98	0.0	0.0	ok	0.0	0.0			0,0,0,0					
99	0.0	0.0	ok	0.0	0.0			0,0,0,0					
100	0.0	0.0	ok	0.0	0.0			0,0,0,0					
101	0.0	0.0	ok	0.0	0.0			0,0,0,0					
102	0.0	0.0	ok	0.0	0.0			0,0,0,0					
103	0.0	0.0	ok	0.0	0.0			0,0,0,0					
104	0.0	0.0	ok	0.0	0.0			0,0,0,0					
105	0.0	0.0	ok	0.0	0.0			0,0,0,0					
106	0.0	0.0	ok	0.0	0.0			0,0,0,0					
107	0.0	0.0	ok	0.0	0.0			0,0,0,0					
108	0.0	0.0	ok	0.0	0.0			0,0,0,0					
109	0.0	0.0	ok	0.0	0.0			0,0,0,0					
110	0.0	0.0	ok	0.0	0.0			0,0,0,0					
111	0.0	0.0	ok	0.0	0.0			0,0,0,0					
112	0.0	0.0	ok	0.0	0.0			0,0,0,0					
113	0.0	0.0	ok	0.0	0.0			0,0,0,0					
114	0.0	0.0	ok	0.0	0.0			0,0,0,0					
115	0.0	0.0	ok	0.0	0.0			0,0,0,0					
116	0.0	0.0	ok	0.0	0.0			0,0,0,0					
117	0.0	0.0	ok	0.0	0.0			0,0,0,0					
118	0.0	0.0	ok	0.0	0.0			0,0,0,0					
119	0.0	0.0	ok	0.0	0.0			0,0,0,0					
120	0.0	0.0	ok	0.0	0.0			0,0,0,0					
121	0.0	0.0	ok	0.0	0.0			0,0,0,0					
122	0.0	0.0	ok	0.0	0.0			0,0,0,0					
123	0.0	0.0	ok	0.0	0.0			0,0,0,0					
124	0.0	0.0	ok	0.0	0.0			0,0,0,0					
125	0.0	0.0	ok	0.0	0.0			0,0,0,0					
126	0.0	0.0	ok	0.0	0.0			0,0,0,0					
127	0.0	0.0	ok	0.0	0.0			0,0,0,0					
129	0.0	0.0	ok	0.0	0.0			0,0,0,0					
132	0.0	0.0	ok	0.0	0.0			0,0,0,0					
134	0.0	0.0	ok	0.0	0.0			0,0,0,0					
135	0.0	0.0	ok	0.0	0.0			0,0,0,0					
137	0.0	0.0	ok	0.0	0.0			0,0,0,0					
138	0.0	0.0	ok	0.0	0.0			0,0,0,0					
141	0.0	0.0	ok	0.0	0.0			0,0,0,0					
144	0.0	0.0	ok	0.0	0.0			0,0,0,0					
145	0.0	0.0	ok	0.0	0.0			0,0,0,0					
146	0.0	0.0	ok	0.0	0.0			0,0,0,0					
147	0.0	0.0	ok	0.0	0.0			0,0,0,0					
165	0.0	0.0	ok	0.0	0.0			0,0,0,0					
204	0.0	0.0	ok	0.0	0.0			0,0,0,0					
205	0.0	0.0	ok	0.0	0.0			0,0,0,0					
207	0.0	0.0	ok	0.0	0.0			0,0,0,0					
212	0.0	0.0	ok	0.0	0.0			0,0,0,0					
215	0.0	0.0	ok	0.0	0.0			0,0,0,0					
223	0.0	0.0	ok	0.0	0.0			0,0,0,0					
231	0.0	0.0	ok	0.0	0.0			0,0,0,0					
237	0.0	0.0	ok	0.0	0.0			0,0,0,0					
244	0.0	0.0	ok	0.0	0.0			0,0,0,0					
245	0.0	0.0	ok	0.0	0.0			0,0,0,0					
246	0.0	0.0	ok	0.0	0.0			0,0,0,0					
247	0.0	0.0	ok	0.0	0.0			0,0,0,0					
248	0.0	0.0	ok	0.0	0.0			0,0,0,0					
249	0.0	0.0	ok	0.0	0.0			0,0,0,0					
254	0.0	0.0	ok	0.0	0.0			0,0,0,0					
267	0.0	0.0	ok	0.0	0.0			0,0,0,0					
275	0.0	0.0	ok	0.0	0.0			0,0,0,0					
284	0.0	0.0	ok	0.0	0.0			0,0,0,0					
296	0.0	0.0	ok	0.0	0.0			0,0,0,0					
304	0.0	0.0	ok	0.0	0.0			0,0,0,0					
310	0.0	0.0	ok	0.0	0.0			0,0,0,0					

311	0.0	0.0	ok	0.0	0.0		0,0,0,0
312	0.0	0.0	ok	0.0	0.0		0,0,0,0
313	0.0	0.0	ok	0.0	0.0		0,0,0,0
314	0.0	0.0	ok	0.0	0.0		0,0,0,0
315	0.0	0.0	ok	0.0	0.0		0,0,0,0
316	0.0	0.0	ok	0.0	0.0		0,0,0,0
317	0.0	0.0	ok	0.0	0.0		0,0,0,0
318	0.0	0.0	ok	0.0	0.0		0,0,0,0
319	0.0	0.0	ok	0.0	0.0		0,0,0,0
320	0.0	0.0	ok	0.0	0.0		0,0,0,0
321	0.0	0.0	ok	0.0	0.0		0,0,0,0
322	0.0	0.0	ok	0.0	0.0		0,0,0,0
323	0.0	0.0	ok	0.0	0.0		0,0,0,0
324	0.0	0.0	ok	0.0	0.0		0,0,0,0
325	0.0	0.0	ok	0.0	0.0		0,0,0,0
326	0.0	0.0	ok	0.0	0.0		0,0,0,0
327	0.0	0.0	ok	0.0	0.0		0,0,0,0
328	0.0	0.0	ok	0.0	0.0		0,0,0,0
329	0.0	0.0	ok	0.0	0.0		0,0,0,0
330	0.0	0.0	ok	0.0	0.0		0,0,0,0
331	0.0	0.0	ok	0.0	0.0		0,0,0,0
332	0.0	0.0	ok	0.0	0.0		0,0,0,0
333	0.0	0.0	ok	0.0	0.0		0,0,0,0
334	0.0	0.0	ok	0.0	0.0		0,0,0,0
335	0.0	0.0	ok	0.0	0.0		0,0,0,0
336	0.0	0.0	ok	0.0	0.0		0,0,0,0
337	0.0	0.0	ok	0.0	0.0		0,0,0,0
338	0.0	0.0	ok	0.0	0.0		0,0,0,0
348	0.0	0.0	ok	0.0	0.0		0,0,0,0
350	0.0	0.0	ok	0.0	0.0		0,0,0,0
356	0.0	0.0	ok	0.0	0.0		0,0,0,0
363	0.0	0.0	ok	0.0	0.0		0,0,0,0
364	0.0	0.0	ok	0.0	0.0		0,0,0,0
369	0.0	0.0	ok	0.0	0.0		0,0,0,0
375	0.0	0.0	ok	0.0	0.0		0,0,0,0
376	0.0	0.0	ok	0.0	0.0		0,0,0,0
379	0.0	0.0	ok	0.0	0.0		0,0,0,0
381	0.0	0.0	ok	0.0	0.0		0,0,0,0
382	0.0	0.0	ok	0.0	0.0		0,0,0,0
383	0.0	0.0	ok	0.0	0.0		0,0,0,0
384	0.0	0.0	ok	0.0	0.0		0,0,0,0
385	0.0	0.0	ok	0.0	0.0		0,0,0,0
386	0.0	0.0	ok	0.0	0.0		0,0,0,0
390	0.0	0.0	ok	0.0	0.0		0,0,0,0
392	0.0	0.0	ok	0.0	0.0		0,0,0,0
393	0.0	0.0	ok	0.0	0.0		0,0,0,0
396	0.0	0.0	ok	0.0	0.0		0,0,0,0
397	0.0	0.0	ok	0.0	0.0		0,0,0,0
398	0.0	0.0	ok	0.0	0.0		0,0,0,0
399	0.0	0.0	ok	0.0	0.0		0,0,0,0
403	0.0	0.0	ok	0.0	0.0		0,0,0,0
407	0.0	0.0	ok	0.0	0.0		0,0,0,0
408	0.0	0.0	ok	0.0	0.0		0,0,0,0
421	0.0	0.0	ok	0.0	0.0		0,0,0,0
422	0.0	0.0	ok	0.0	0.0		0,0,0,0
423	0.0	0.0	ok	0.0	0.0		0,0,0,0
424	0.0	0.0	ok	0.0	0.0		0,0,0,0
425	0.0	0.0	ok	0.0	0.0		0,0,0,0
429	0.0	0.0	ok	0.0	0.0		0,0,0,0
433	0.0	0.0	ok	0.0	0.0		0,0,0,0
434	0.0	0.0	ok	0.0	0.0		0,0,0,0
435	0.0	0.0	ok	0.0	0.0		0,0,0,0
436	0.0	0.0	ok	0.0	0.0		0,0,0,0
437	0.0	0.0	ok	0.0	0.0		0,0,0,0
438	0.0	0.0	ok	0.0	0.0		0,0,0,0
439	0.0	0.0	ok	0.0	0.0		0,0,0,0
440	0.0	0.0	ok	0.0	0.0		0,0,0,0
441	0.0	0.0	ok	0.0	0.0		0,0,0,0
442	0.0	0.0	ok	0.0	0.0		0,0,0,0
443	0.0	0.0	ok	0.0	0.0		0,0,0,0

Pilas.	V V/T	V N/M	V stab	V flst	V[7.5.10]	V Ed sovr.	Xi sovr.	Xf sovr.	Yi sovr.	Yf
	0.0	0.0								

13.4.2 STATI LIMITE D' ESERCIZIO ACCIAIO

13.4.2.1 LEGENDA TABELLA STATI LIMITE D' ESERCIZIO ACCIAIO

In tabella vengono riportati i valori di interesse per il controllo degli stati limite d'esercizio.
In particolare vengono riportati, per gli elementi trave, i risultati relativi alle combinazioni considerate (rare o caratteristiche).
I valori di interesse sono i seguenti:

f*1000/L	massima deformazione normalizzata in combinazioni rare

Si precisa che i valori di massima deformazione per travi sono riferiti ai due piani locali (1-2 con momenti flettenti 3-3 e 1-3 con momenti flettenti 2-2). Il valore riportato (massimo) è espresso in 1000/L per rendere agevole il confronto di più valori e in particolare di più range di valori (ad esempio 2 rappresenta L/500, 4 L/250 e cosi via).

Trave	f*1000/L	Trave	f*1000/L	Trave	f*1000/L	Trave	f*1000/L	Trave	f*1000/L	Trave	f*1000/L	Trave	f*1000/L
130	1.9	131	0.4	133	8.29e-02	136	0.1	139	5.55e-02	140	0.3	142	3.52e-02
143	0.5	148	6.55e-02	149	6.39e-02	150	3.53e-02	151	2.35e-02	152	1.84e-02	153	5.22e-02
154	4.87e-02	155	2.15e-02	156	2.52e-02	157	3.67e-02	158	5.88e-02	159	6.97e-02	160	0.5
161	0.1	162	4.24e-02	163	7.33e-02	164	7.52e-02	167	2.68e-02	168	9.88e-02	169	0.1
170	7.86e-02	171	5.65e-02	172	5.32e-02	173	8.30e-02	174	0.1	175	5.22e-02	176	6.89e-02
177	0.1	178	0.1	179	0.1	180	0.5	181	0.7	182	9.09e-02	183	0.1
184	0.1	186	0.7	187	4.34e-02	188	0.1	189	0.1	190	8.48e-02	191	8.87e-02
192	9.38e-02	193	0.1	194	0.2	195	0.1	196	0.1	197	0.1	198	0.1
199	0.1	200	1.8	201	1.3	202	9.78e-02	203	0.1	206	8.20e-02	208	0.1
211	0.8	213	0.3	214	0.2	216	1.8	219	0.1	220	0.4	221	7.89e-02
222	1.2	224	0.5	225	6.21e-02	226	3.61e-02	240	6.34e-02	241	6.58e-02	250	0.3
251	0.3	252	0.1	253	0.1	255	0.1	256	4.18e-02	257	1.52e-02	258	4.33e-02
276	1.3	277	0.8	278	0.1	279	1.2	280	0.5	281	0.1	282	0.5
283	0.6	289	0.2	290	0.1	291	0.2	292	0.1	293	0.2	294	6.90e-02
295	0.1	297	0.1	298	5.36e-02	299	0.1	300	5.29e-02	301	6.77e-02	302	2.53e-02
303	6.26e-02	305	3.42e-02	306	1.52e-02	307	3.31e-02	308	1.52e-02	309	2.04e-02	357	1.1
358	0.7	359	0.1	362	1.1	365	1.0	366	7.44e-02	367	0.3	368	0.5
370	1.7	371	0.3	372	0.4	373	0.7	374	1.1	377	1.7	378	1.1
380	1.1	394	0.8	395	0.7	400	1.2	404	0.5	405	1.3	406	1.0
411	1.1	412	1.0	413	0.7	414	0.5	415	0.7	416	2.2	417	1.9
418	1.0	419	7.29e-02	420	0.1	426	0.1	427	0.1	428	4.77e-02	430	0.1

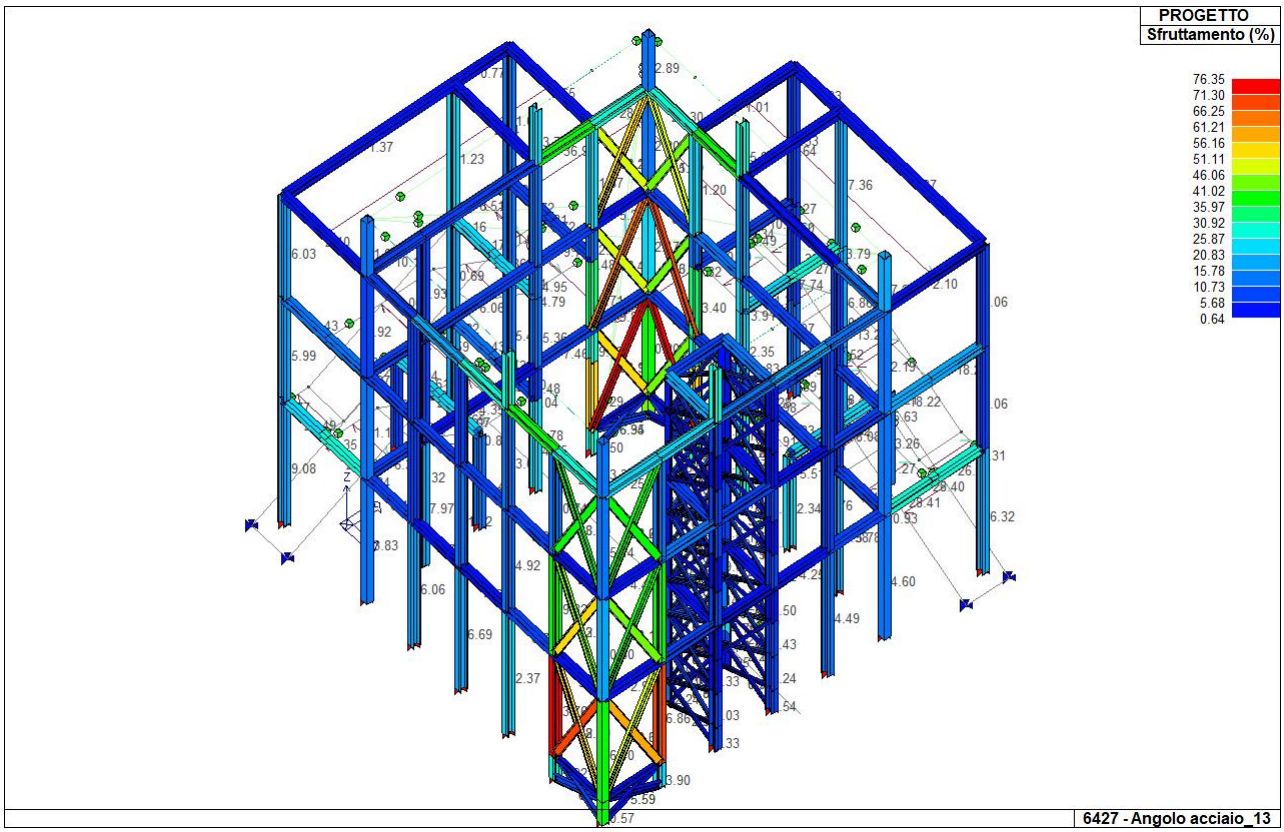


Figura 50: Sfruttamento [%]

13.4.3 VERIFICA PIASTRA DI BASE

Coefficienti di sicurezza utilizzati

γ_{M0} = 1.05
γ_{M1} = 1.10
γ_{M2} = 1.25

Colonna

Tipo di profilo: HEB 200
Materiale: Acciaio S275 f_y = 275 N/mm^2 f_t = 430 N/mm^2 γ_{ov} = 1.25
Classe sezione: 1

Flangia:
Materiale: Acciaio S275 f_y = 275 N/mm^2 f_t = 430 N/mm^2 γ_{ov} = 1.25
Dimensioni (B x H x Sp): 450.0 x 450.0 x 20.0 mm
Spessore nervature verticali: 15.0 mm
Spessore nervature orizzontali: 15.0 mm

Bullonature:
Viti cl. 8.8 Dadi 8 o 10 (f_{yb} = 640 N/mm^2, f_{tb} = 800 N/mm^2)
Diametro Ø = 20 mm A_{res} = 245.0 mm^2 (ridotta per filettatura)
Diametro foro $Ø_0$ = 21 mm

Saldature:
Materiale: Acciaio S275 f_y = 275 N/mm^2 f_t = 430 N/mm^2 β_1 = 0.70 β_2 = 0.85
Spessore cordoni d'angolo s_c = 8 mm

Sollecitazioni:

Nodo.CMB	V2 [N]	V3 [N]	N [N]	M2 [N mm]	M3 [N mm]	T [N mm]
42.1	16.9	-312.4	-77932.0	423838.0	-118582.0	28.0
42.2	30.8	55.2	-83316.6	329205.0	-347691.0	-33.0

42.3	14.7	-256.1	-61477.4	376979.0	-91519.0	35.0
42.4	28.7	111.4	-66862.1	282345.0	-320628.0	-27.0
42.5	22.4	-423.1	-96606.4	614986.0	-133179.0	62.0
42.6	32.2	-165.8	-100400.0	548742.0	-293556.0	18.0
42.7	20.2	-366.9	-80151.8	568126.0	-106116.0	68.0
42.8	30.0	-109.6	-83921.1	501882.0	-266493.0	25.0
42.19	3858.2	1573.8	356000.0	-2765000.0	-15460000.0	29157.0
42.20	2537.1	972.6	167900.0	-1408000.0	-10030000.0	20088.0
42.21	-2518.3	-1030.9	-242600.0	1568000.0	9797000.0	-20144.0
42.22	-3839.4	-1632.1	-430700.0	2925000.0	15220000.0	-29213.0
42.23	3800.3	1612.2	378100.0	-2931000.0	-15290000.0	28820.0
42.24	2595.0	934.2	145800.0	-1242000.0	-10210000.0	20424.0
42.25	-2576.2	-992.5	-220500.0	1402000.0	9969000.0	-20481.0
42.26	-3781.5	-1670.5	-452800.0	3091000.0	15050000.0	-28876.0
42.27	3096.7	1795.4	382000.0	-2939000.0	-13230000.0	18800.0
42.28	1775.6	1194.2	193900.0	-1582000.0	-7802000.0	9731.0
42.29	-1756.9	-1252.5	-268500.0	1742000.0	7566000.0	-9787.0
42.30	-3078.0	-1853.7	-456700.0	3099000.0	12990000.0	-18856.0
42.31	3038.8	1833.8	404100.0	-3105000.0	-13060000.0	18463.0
42.32	1833.5	1155.8	171800.0	-1416000.0	-7974000.0	10067.0
42.33	-1814.8	-1214.1	-246400.0	1576000.0	7738000.0	-10124.0
42.34	-3020.1	-1892.1	-478800.0	3265000.0	12820000.0	-18519.0
42.35	3167.7	1363.6	366000.0	-2832000.0	-12950000.0	22482.0
42.36	-1236.0	-640.5	-261100.0	1692000.0	5140000.0	-7749.0
42.37	1254.7	582.1	186400.0	-1532000.0	-5377000.0	7692.0
42.38	-3148.9	-1421.9	-440700.0	2992000.0	12720000.0	-22539.0
42.39	2939.2	1430.0	373800.0	-2885000.0	-12280000.0	19375.0
42.40	-1464.4	-574.0	-253300.0	1640000.0	5810000.0	-10856.0
42.41	1483.2	515.7	178600.0	-1480000.0	-6046000.0	10799.0
42.42	-2920.5	-1488.3	-448400.0	3044000.0	12050000.0	-19432.0
42.43	2974.7	1491.5	439700.0	-3386000.0	-12380000.0	21360.0
42.44	-1043.0	-768.4	-334800.0	2246000.0	4566000.0	-6626.0
42.45	1061.7	710.1	260100.0	-2086000.0	-4803000.0	6570.0
42.46	-2955.9	-1549.8	-514300.0	3546000.0	12140000.0	-21416.0
42.47	2746.2	1558.0	447500.0	-3438000.0	-11710000.0	18253.0
42.48	-1271.4	-701.9	-327000.0	2194000.0	5236000.0	-9733.0
42.49	1290.1	643.6	252300.0	-2034000.0	-5472000.0	9677.0
42.50	-2727.5	-1616.3	-522100.0	3598000.0	11470000.0	-18309.0
42.115	4651.6	1902.7	437200.0	-3352000.0	-18630000.0	35165.0
42.116	3059.5	1177.2	210000.0	-1713000.0	-12080000.0	24273.0
42.117	-3040.8	-1235.5	-284600.0	1873000.0	11850000.0	-24330.0
42.118	-4632.8	-1961.0	-511800.0	3512000.0	18400000.0	-35221.0
42.119	4581.7	1950.1	464100.0	-3555000.0	-18430000.0	34758.0
42.120	3129.4	1129.8	183000.0	-1511000.0	-12290000.0	24680.0
42.121	-3110.7	-1188.1	-257700.0	1671000.0	12050000.0	-24736.0
42.122	-4562.9	-2008.4	-538800.0	3714000.0	18190000.0	-34815.0
42.123	3739.7	2179.5	470200.0	-3574000.0	-15970000.0	22640.0
42.124	2147.6	1454.0	243000.0	-1935000.0	-9425000.0	11748.0
42.125	-2128.9	-1512.3	-317600.0	2095000.0	9189000.0	-11805.0
42.126	-3720.9	-2237.8	-544800.0	3734000.0	15740000.0	-22697.0
42.127	3669.8	2226.9	497100.0	-3776000.0	-15770000.0	22234.0
42.128	2217.5	1406.6	216000.0	-1733000.0	-9631000.0	12155.0
42.129	-2198.8	-1465.0	-290700.0	1892000.0	9395000.0	-12212.0
42.130	-3651.0	-2285.2	-571800.0	3936000.0	15530000.0	-22290.0
42.131	3816.7	1650.8	449600.0	-3436000.0	-15610000.0	27049.0
42.132	-1490.2	-767.6	-307700.0	2028000.0	6226000.0	-9257.0
42.133	1508.9	709.3	233100.0	-1868000.0	-6462000.0	9201.0
42.134	-3797.9	-1709.1	-524300.0	3596000.0	15370000.0	-27105.0
42.135	3543.1	1733.8	459500.0	-3502000.0	-14810000.0	23292.0
42.136	-1763.8	-684.6	-297800.0	1962000.0	7023000.0	-13014.0
42.137	1782.5	626.3	223200.0	-1802000.0	-7259000.0	12958.0
42.138	-3524.3	-1792.1	-534200.0	3662000.0	14570000.0	-23348.0

42.139	3583.6	1808.6	539400.0	-4110000.0	-14920000.0	25694.0
42.140	-1257.2	-925.5	-397500.0	2702000.0	5539000.0	-7902.0
42.141	1275.9	867.2	322900.0	-2542000.0	-5775000.0	7845.0
42.142	-3564.9	-1866.9	-614100.0	4270000.0	14680000.0	-25750.0
42.143	3310.0	1891.7	549300.0	-4176000.0	-14120000.0	21936.0
42.144	-1530.7	-842.4	-387600.0	2636000.0	6337000.0	-11659.0
42.145	1549.5	784.1	313000.0	-2476000.0	-6573000.0	11603.0
42.146	-3291.3	-1950.0	-624000.0	4336000.0	13890000.0	-21993.0

Calcolo resistenze

Resistenza a trazione dei bulloni $F_{tb,Rd} = 0.9 \cdot f_{tb} \cdot A_{res} / \gamma_{M2} =$ 141145.5 N

Resistenza a punzonamento flangia $B_{pf,Rd} = 0.6 \cdot \pi \cdot d_m \cdot t_f \cdot f_{tk} / \gamma_{M2} =$ 389054.8 N

Bull.	$F_{f,Rd}$ [N]	$F_{t,Rd}$ [N]
1	92005.7	92005.7
2	93918.9	93918.9
3	92005.7	92005.7
4	88103.3	88103.3
5	88103.3	88103.3
6	92005.7	92005.7
7	93918.9	93918.9
8	92005.7	92005.7

Legenda

$F_{f,Rd} = M_{res,m} / (B_m \cdot R_m)$ resistenza a flessione flangia

$F_{t,Rd} = \min [F_{tb,Rd} , B_{pf,Rd} , F_{f,Rd}]$ resistenza a trazione di progetto

Resistenza a taglio dei bulloni $F_{vb,Rd} = 0.6 \cdot f_{tb} \cdot A_{res} / \gamma_{M2} =$ 94097.0 N

Bull.	$F_{bf,x,Rd}$ [N]	$F_{v,x,Rd}$ [N]	$F_{bf,y,Rd}$ [N]	$F_{v,y,Rd}$ [N]
1	278476.2	94097.0	327619.1	94097.0
2	278476.2	94097.0	344000.0	94097.0
3	278476.2	94097.0	327619.1	94097.0
4	344000.0	94097.0	327619.1	94097.0
5	344000.0	94097.0	327619.1	94097.0
6	278476.2	94097.0	327619.1	94097.0
7	278476.2	94097.0	344000.0	94097.0
8	278476.2	94097.0	327619.1	94097.0

Legenda

$F_{bf,x,Rd} = k \cdot \alpha \cdot f_{tk} \cdot Ø \cdot t_f / \gamma_{M2}$ resistenza a rifollamento flangia in direzione x

$F_{v,x,Rd} = \min [F_{vb,Rd} , F_{bf,x,Rd}]$ resistenza a taglio di progetto in direzione x

$F_{bf,y,Rd} = k \cdot \alpha \cdot f_{tk} \cdot Ø \cdot t_f / \gamma_{M2}$ resistenza a rifollamento flangia in direzione y

$F_{v,y,Rd} = \min [F_{vb,Rd} , F_{bf,y,Rd}]$ resistenza a taglio di progetto in direzione y

Verifiche sui bulloni

1-Taglio e trazione (Nodo n. 42, CMB n. 143)

Bull.	X [mm]	Y [mm]	$F_{v,Ed}$ [N]	$F_{v,Rd}$ [N]	$F_{t,Ed}$ [N]	$F_{t,Rd}$ [N]	FV_1	VER
1	174.00	-165.00	472.4	94097.0	50399.9	92005.7	0.396299	Ok
2	174.00	0.00	467.0	94097.0	64662.5	93918.9	0.496744	Ok
3	174.00	165.00	461.8	94097.0	78925.1	92005.7	0.617642	Ok
4	0.00	-165.00	481.8	94097.0	54399.9	88103.3	0.446161	Ok
5	0.00	165.00	471.4	94097.0	82925.1	88103.3	0.677315	Ok
6	-174.00	-165.00	491.4	94097.0	58399.9	92005.7	0.458609	Ok
7	-174.00	0.00	486.2	94097.0	72662.5	93918.9	0.557791	Ok
8	-174.00	165.00	481.2	94097.0	86925.1	92005.7	0.679956	Ok

2-Trazione (Nodo n. 42, CMB n. 143)

Bull.	X [mm]	Y [mm]	$F_{t,Ed}$ [N]	$F_{t,Rd}$ [N]	FV_2	VER
1	174.00	-165.00	50399.9	92005.7	0.547791	Ok
2	174.00	0.00	64662.5	93918.9	0.688493	Ok
3	174.00	165.00	78925.1	92005.7	0.857829	Ok
4	0.00	-165.00	54399.9	88103.3	0.617456	Ok
5	0.00	165.00	82925.1	88103.3	0.941227	Ok
6	-174.00	-165.00	58399.9	92005.7	0.634742	Ok
7	-174.00	0.00	72662.5	93918.9	0.773673	Ok
8	-174.00	165.00	86925.1	92005.7	0.944780	Ok

Legenda
$F_{v,Ed}$ forza di taglio agente sul bullone
$F_{v,Rd}$ resistenza a taglio di progetto del bullone
$F_{t,Ed}$ forza di trazione agente sul bullone
$F_{t,Rd}$ resistenza a trazione di progetto del bullone
$FV_1 = F_{v,Ed} / F_{v,Rd} + F_{t,Ed} / (1.4 \bullet F_{t,Rd})$
$FV_2 = F_{t,Ed} / F_{t,Rd}$
VER $\rightarrow$ $FV_i \leq 1$

Verifiche sulle saldature profilo-flangia (versione beta)
Si considera la sezione di gola (avente altezza $a = s_c / 2^{0.5} = 5.657$) in posizione ribaltata: vengono considerate positive le tensioni normali di trazione e le tensioni tangenziali agenti verso destra e verso il basso. Tutte le tensioni sono espresse in N/mm^2.

Verifica formula (4.2.78) (Nodo n. 42, CMB n. 142)

Cordoni	$n_\perp$	$t_\perp$	$\tau_\parallel$	FV_1	VER_1
Nerv. verticale lato destro esterno	-42.97	0.00	-0.32	42.98	Ok
Nerv. vert. lato destro interno zona inferiore	-23.25	0.00	-0.32	23.25	Ok
Nerv. vert. lato sinistro interno zona inferiore	-26.31	0.00	-0.32	26.32	Ok
Nerv. verticale lato sinistro esterno	-46.69	0.00	-0.32	46.69	Ok
Nerv. orizz. inferiore lato destro esterno	-23.15	0.00	-0.22	23.16	Ok
Ala inferiore esterno	-26.67	0.00	-0.22	26.67	Ok
Nerv. orizz. inferiore lato sinistro esterno	-28.64	0.00	-0.22	28.64	Ok
Nerv. orizz. inferiore lato destro interno	-24.40	0.00	-0.22	24.40	Ok
Ala inferiore interno lato destro	-25.98	0.00	-0.22	25.98	Ok
Ala inferiore interno lato sinistro	-27.91	0.00	-0.22	27.91	Ok
Nerv. orizz. inferiore lato sinistro interno	-29.88	0.00	-0.22	29.88	Ok
Nerv. vert. lato destro interno zona centrale	-34.39	0.00	-0.32	34.39	Ok
Anima lato destro	-35.32	0.00	-0.32	35.32	Ok
Anima lato sinistro	-35.32	0.00	-0.32	35.32	Ok
Nerv. vert. lato sinistro interno zona centrale	-37.45	0.00	-0.32	37.45	Ok
Nerv. orizz. superiore lato destro interno	-34.29	0.00	-0.22	34.29	Ok
Ala superiore interno lato destro	-35.88	0.00	-0.22	35.88	Ok
Ala superiore interno lato sinistro	-37.81	0.00	-0.22	37.81	Ok
Nerv. orizz. superiore lato sinistro interno	-39.78	0.00	-0.22	39.78	Ok
Nerv. orizz. superiore lato destro esterno	-35.54	0.00	-0.22	35.54	Ok
Ala superiore esterno	-39.05	0.00	-0.22	39.05	Ok
Nerv. orizz. superiore lato sinistro esterno	-41.02	0.00	-0.22	41.02	Ok
Nerv. vert. lato destro interno zona superiore	-43.30	0.00	-0.32	43.30	Ok
Nerv. vert. lato sinistro interno zona superiore	-46.36	0.00	-0.32	46.36	Ok

Verifica formula (4.2.79) (Nodo n. 42, CMB n. 142)

Cordoni	$n_\perp$	$t_\perp$	$\tau_\parallel$	FV_2	VER_2
Nerv. verticale lato destro esterno	-42.97	0.00	-0.32	42.97	Ok
Nerv. vert. lato destro interno zona inferiore	-23.25	0.00	-0.32	23.25	Ok
Nerv. vert. lato sinistro interno zona inferiore	-26.31	0.00	-0.32	26.31	Ok
Nerv. verticale lato sinistro esterno	-46.69	0.00	-0.32	46.69	Ok
Nerv. orizz. inferiore lato destro esterno	-23.15	0.00	-0.22	23.15	Ok
Ala inferiore esterno	-26.67	0.00	-0.22	26.67	Ok
Nerv. orizz. inferiore lato sinistro esterno	-28.64	0.00	-0.22	28.64	Ok
Nerv. orizz. inferiore lato destro interno	-24.40	0.00	-0.22	24.40	Ok
Ala inferiore interno lato destro	-25.98	0.00	-0.22	25.98	Ok
Ala inferiore interno lato sinistro	-27.91	0.00	-0.22	27.91	Ok
Nerv. orizz. inferiore lato sinistro interno	-29.88	0.00	-0.22	29.88	Ok
Nerv. vert. lato destro interno zona centrale	-34.39	0.00	-0.32	34.39	Ok
Anima lato destro	-35.32	0.00	-0.32	35.32	Ok
Anima lato sinistro	-35.32	0.00	-0.32	35.32	Ok
Nerv. vert. lato sinistro interno zona centrale	-37.45	0.00	-0.32	37.45	Ok
Nerv. orizz. superiore lato destro interno	-34.29	0.00	-0.22	34.29	Ok
Ala superiore interno lato destro	-35.88	0.00	-0.22	35.88	Ok
Ala superiore interno lato sinistro	-37.81	0.00	-0.22	37.81	Ok
Nerv. orizz. superiore lato sinistro interno	-39.78	0.00	-0.22	39.78	Ok
Nerv. orizz. superiore lato destro esterno	-35.54	0.00	-0.22	35.54	Ok
Ala superiore esterno	-39.05	0.00	-0.22	39.05	Ok

Nerv. orizz. superiore lato sinistro esterno	-41.02	0.00	-0.22	41.02	Ok
Nerv. vert. lato destro interno zona superiore	-43.30	0.00	-0.32	43.30	Ok
Nerv. vert. lato sinistro interno zona superiore	-46.36	0.00	-0.32	46.36	Ok

Legenda

$n_\perp$ tensione normale perpendicolare all'asse del cordone

$t_\perp$ tensione tangenziale perpendicolare all'asse del cordone

$\tau_\parallel$ tensione tangenziale parallela all'asse del cordone

$FV_1 = (n_\perp^2 + t_\perp^2 + \tau_\parallel^2)^{0.5}$

$FV_2 = |n_\perp| + |t_\perp|$

$VER_i \rightarrow FV_i \leq \beta_i \cdot f_{yk}$ ($\beta_1 \cdot f_{yk} = 192.50$ N/mm^2 $\beta_2 \cdot f_{yk} = 233.75$ N/mm^2)

Verifiche a flessione piastra in zona compressa

Sezione parallela a X a filo della colonna (Nodo n. 42, CMB n. 142)

Pressione media a bordo piastra $p_{med} = 4,04$ N/mm^2

Carico lineare sbalzo $q_{lin} = 1818,13$ N/mm

Lunghezza sbalzo $L_s = 125,0$ mm

Modulo di resistenza minimo $W_{min} = 199425,1$ mm^3

Momento resistente $M_{p,Rd} =$ 52230390,0 N mm

Momento massimo $M_{p,Ed} =$ 14204100,0 N mm

$M_{p,Ed} / M_{p,Rd} = 0,271951$ Ok

Sezione parallela a Y a filo della nervatura verticale (Nodo n. 42, CMB n. 146)

Pressione media a bordo piastra $p_{med} = 3,40$ N/mm^2

Carico lineare sbalzo $q_{lin} = 1530,39$ N/mm

Lunghezza sbalzo $L_s = 110,0$ mm

Modulo di resistenza minimo $W_{min} = 199425,1$ mm^3

Momento resistente $M_{p,Rd} =$ 52230390,0 N mm

Momento massimo $M_{p,Ed} =$ 9258869,0 N mm

$M_{p,Ed} / M_{p,Rd} = 0,177270$ Ok

Verifica del momento di progetto del giunto (Nodo n. 42, CMB n. 115)

Momento resistente del giunto $M_{j,Rd} =$ 164715100.0 N mm

Momento di progetto $M_{j,Ed} =$ 18630000.0 N mm

$M_{j,Ed} / M_{j,Rd} = 0.113104$ Ok

Ancoraggio

Tirafondi ad aderenza

Lunghezza tirafondi $L_t =$ 600 mm

Lunghezza minima tirafondi: 40 diametri (800 mm)

Calcestruzzo

Resistenza cubica caratteristica a compressione	$R_{ck} =$	30.00 N/mm^2
Resistenza cilindrica caratteristica a compressione	$f_{ck} = 0.83 \cdot R_{ck} =$	24.90 N/mm^2
Resistenza di calcolo a compressione	$f_{cd} = \alpha_{cc} \cdot f_{ck} / \gamma_C =$	14.11 N/mm^2
Resistenza caratteristica a trazione	$f_{ctk} = 0.7 \cdot 0.30 \cdot f_{ck}^{2/3} =$	1.79 N/mm^2
Resistenza tangenziale di aderenza di calcolo	$f_{bd} = 2.25 \cdot \eta \cdot f_{ctk} / \gamma_C =$	2.69 N/mm^2

Compressione massima calcestruzzo (Nodo n. 42, CMB n. 146)

$p_{max} = 4.33$ N/mm^2 < f_{cd} Ok

Verifica ancoraggio

Si considera la massima resistenza a trazione di progetto dei tirafondi

Trazione di progetto dell'ancoraggio $F_{t,an,Ed} = \max [F_{t,Rd}] =$ 93918.9 N

Resistenza a trazione per aderenza $F_{t,ad,Rd} = L_t \cdot \pi \cdot Ø \cdot f_{bd} =$ 101260.8 N

$F_{t,ad,Rd} > F_{t,an,Ed}$ Ok

13.4.4 VERIFICHE MANUALI US 02-L

Nel presente paragrafo si riportano le verifiche, mediante calcoli manuali, relativamente agli elementi che riportano verifica negativa nelle tabelle sopra riportate.

Nel seguito si riportano le considerazioni relativamente ai collegamenti metallici e il loro dimensionamento mediante calcoli manuali.

13.4.4.1 VERIFICA ELEMENTI TRAVE IN LEGNO

Come si può osservare nell'estratto di tabulato di calcolo sopra riportato e relativo alle verifiche degli elementi tipo trave, vi sono degli elementi che non risultano verificati a taglio.

Si tratta di travi in legno lamellare Gl32h d sezione 16 x 56 cm e 32 x 56 cm a livello del primo e secondo solaio.

TRAVE SALA CONFERENZE

La verifica manuale della trave 32 x 56 cm della sala conferenze viene condotta seguendo uno schema statico di trave su due appoggi a una campata di lunghezza in pianta di 6,60 ml.

GEOMETRIA

Sezione=	320x560 mm	
Interasse=	7,20 ml	
Luce=	6,60 ml (in proiezione ortogonale)	
L' = L/cosα =	6,60 ml (luce reale di calcolo)	

MATERIALE

Tipo legno=	Gl32h	
$f_{m,g,k}$=	32,00	[MPa]
$f_{v,g,k}$=	3,80	[MPa]
$E_{0,g,mean}$=	14.200,00	[MPa]
$G_{0,g,mean}$=	650,00	[MPa]
$\rho_{g,k}$=	600,00	[kg/m^3]
γ_M=	1,45 (coefficiente parziale di sicurezza)	
Classe di servizio=	2	
Durata del carico=	azioni di media durata	
k_{def}=	0,8	
k_{mod}=	0,8	
k_{mod}=	0,6 (per soli carichi permanenti)	

CARICHI

Peso proprio g_{k1}=	0,32 x 0,56 x 5,5 = 0,99 kN/m
Carichi permanenti g_{k2}=	2,10 KN/mq = 2,10 x 7,20 = 15,12 KN/m
Carichi variabili q_k=	3,00 KN/mq = 3,00 x 7,20 = 21,60 KN/m

VERIFICHE DI SICUREZZA AGLI SLU

CARICHI

La condizione di carico che agli stati limite ultimo massimizza il momento flettente è quella di carico uniformemente distribuito pari a:

$q_{d,SLU} = \gamma_{g1} \times g_{k1} + \gamma_{g2} \times g_{k2} + \gamma_{q1} \times q_s$ dove:

γ_{g1} = 1,3;

γ_{g2} = 1,5;

γ_{q1} = 1,5

Carico verticale totale:

$\mathbf{q_{d,v}} = \gamma_{g1} \times g_{k1} + \gamma_{g2} \times g_{k2} + \gamma_{q1} \times q_s$ = 56,36 KN/ml

Carico verticale dovuto al solo peso proprio e carico permanente:

$\mathbf{q_{d,v,g}} = \gamma_{g1} \times g_{k1} + \gamma_{g2} \times g_{k2}$ = 23,96 KN/ml

SOLLECITAZIONI

Le azioni di sollecitazione derivanti sono pari a:

Sollecitazioni per carico totale:

$\mathbf{M_{d,v}} = q_{d,v} \times L'^2/8$ = 243,48 kNm;

$\mathbf{V_{d,v}} = q_{d,v} \times L'/2$ = 143,72 kN;

Sollecitazioni per solo carico permanente:

$\mathbf{M_{d,v}} = q_{d,v,g} \times L'^2/8$ = 103,51 kNm;

$\mathbf{V_{d,v}} = q_{d,v,g} \times L'/2$ = 61,10 kN;

VERIFICHE DI SICUREZZA

Il valore di calcolo X_d di una proprietà del materiale è calcolato mediante la relazione $X_d = k_{mod} X_k / \gamma_m$

Verifica carichi totali:

$f_{m,d}$ = 32 X 0,8/1,45 = 17,66 MPa

$f_{v,d}$ = 3,80 X 0,8/1,45 = 2,10 MPa

- **Verifica di resistenza a flessione:**

La sollecitazione massima è in mezzeria e vale 243,48 KNm. La verifica prevede la seguente disuguaglianza:

$\sigma_{m,d} \leq k_{crit} \times f_{m,d}$

dove il coefficiente di instabilità flesso-torsionale k_{crit} = 1 perché lo svergolamento delle travi è impedito dal solaio di piano di spessore s = 22 cm. La trave in esame presenta infatti estradosso complanare con l'estradosso del solaio di piano, il quale su di essa si appoggia mediante appositi collegamenti e giunti legno-legno, risultando a ricalare per un'altezza pari a 34 cm.

$\sigma_{m,d} = 6 \times M_{d,v} / B \times H^2$ = 14,56 MPa

$\sigma_{m,d} / k_{crit} \times f_{m,d}$ = **0,82 < 1; verifica positiva**

- **Verifica di resistenza a taglio:**

La sollecitazione massima è agli appoggi e vale 143,72 KN. La verifica prevede la seguente disuguaglianza:

$\tau_{d,v} \leq f_{v,d}$

$\tau_{d,v} = 1,5\ V_{d,v} / (b \times h)$ = 1,20 MPa

$\tau_{d,v} / f_{v,d}$ = **0,57< 1; verifica positiva**

La sezione risulta correttamente dimensionata per la resistenza agli stati limite ultimi.

VERIFICHE DI SICUREZZA AGLI SLE

Per il calcolo della freccia si è considerato il medesimo schema statico utilizzato per le verifiche di resistenza.

La deformazione istantanea w_{ist} si calcola con riferimento alla combinazione di carico rara:

$F_{d,rara} = g_{k1} + g_{k2} + q_{k1}$

Considerando al solito le proiezioni dei carichi ortogonali alla direzione della trave:

$W_{ist} = W_{ist,g} + W_{ist,Q1}$

Nel calcolo della deformazione finale si deve tener conto del comportamento reologico del legno. Al termine di deformazione istantanea si deve quindi sommare il termine di deformazione differita, calcolata con riferimento alle componenti quasi-permanenti delle azioni.

$F_{d,perm} = g_{k1} + g_{k2} + \Psi_{21} q_{k1}$

$W_{fin} = W_{ist,g}(1+k_{def}) + W_{ist,Q1}(1+\Psi_{21}*k_{def})$;

Dove:

Ψ_{21} = 0,6 per la destinazione d'uso considerata.

K_{def} = 0,80

I valori delle frecce massime possono essere ricavate considerando:

$$w_{M,max} = \frac{5 * q * L'^4}{384 * E * I}$$

trascurando la componente di freccia dovuta alla deformabilità tagliante.

Si ottengono quindi i seguenti valori di freccia:

$w_{ist,G}$ = 6,78 mm

$w_{ist,Q}$ = 9,09 mm

$W_{ist} = W_{ist,g} + W_{ist,Q1}$ = 15,87 mm **< L'/300** = 22,00 mm; **verifica positiva**

W_{fin} = 6,78 x (1+0,8) + 9,09 x (1+0,6 x 0,8) = 23,47 mm **< L'/200** = 33,00 mm; **verifica positiva**

TRAVE A SBALZO

La verifica manuale della trave 16 x 56 cm viene condotta seguendo uno schema statico di trave a mensola di lunghezza in pianta di 2,12 ml.

GEOMETRIA

Sezione=	160x560 mm	
Interasse=	6,70 ml	
Luce=	2,12 ml (in proiezione ortogonale)	
L' = L/cosα =	2,12 ml (luce reale di calcolo)	

MATERIALE

Tipo legno=	Gl32h	
$f_{m,g,k}$=	32,00	[MPa]
$f_{v,g,k}$=	3,80	[MPa]
$E_{0,g,mean}$=	14.200,00	[MPa]
$G_{0,g,mean}$=	650,00	[MPa]
$\rho_{g,k}$=	600,00	[kg/m^3]
γ_M=	1,45 (coefficiente parziale di sicurezza)	

Classe di servizio= 2

Durata del carico= azioni di media durata

k_{def}= 0,8

k_{mod}= 0,8

k_{mod}= 0,6 (per soli carichi permanenti)

CARICHI

Peso proprio g_{k1}= 0,16 x 0,56 x 5,5 = 0,49 kN/m

Carichi permanenti g_{k2}= 2,10 KN/mq = 2,21 x 6,70 = 14,81 KN/m

Carichi variabili q_k= 3,00 KN/mq = 3,00 x 6,70 = 20,01 KN/m

VERIFICHE DI SICUREZZA AGLI SLU

CARICHI

La condizione di carico che agli stati limite ultimo massimizza il momento flettente è quella di carico uniformemente distribuito pari a:

$q_{d,SLU} = \gamma_{g1} \times g_{k1} + \gamma_{g2} \times g_{k2} + \gamma_{q1} \times q_s$ dove:

γ_{g1} = 1,3;

γ_{g2} = 1,5;

γ_{q1} = 1,5

Carico verticale totale:

$\mathbf{q_{d,v}} = \gamma_{g1} \times g_{k1} + \gamma_{g2} \times g_{k2} + \gamma_{q1} \times q_s$ = 50,04 KN/ml

Carico verticale dovuto al solo peso proprio e carico permanente:

$\mathbf{q_{d,v,g}} = \gamma_{g1} \times g_{k1} + \gamma_{g2} \times g_{k2}$ = 15,30 KN/ml

SOLLECITAZIONI

Le azioni di sollecitazione derivanti sono pari a:

Sollecitazioni per carico totale:

$\mathbf{M_{d,v}} = q_{d,v} \times L'^2/2$ = 112,45 kNm;

$\mathbf{V_{d,v}} = q_{d,v} \times L'$ = 106,08 kN;

Sollecitazioni per solo carico permanente:

$\mathbf{M_{d,v}} = q_{d,v,g} \times L'^2/2$ = 34,38 kNm;

$\mathbf{V_{d,v}} = q_{d,v,g} \times L'$ = 32,44 kN;

VERIFICHE DI SICUREZZA

Il valore di calcolo X_d di una proprietà del materiale è calcolato mediante la relazione $X_d = k_{mod} X_k / \gamma_m$

Verifica carichi totali:

$f_{m,d}$ = 32 X 0,8/1,45 = 17,66 MPa

$f_{v,d}$ = 3,80 X 0,8/1,45 = 2,10 MPa

- **Verifica di resistenza a flessione:**

La sollecitazione massima è in mezzeria e vale 112,45 KNm. La verifica prevede la seguente disuguaglianza:

$\sigma_{m,d} \leq k_{crit} \times f_{m,d}$

dove il coefficiente di instabilità flesso-torsionale k_{crit} = 1 perché lo svergolamento delle travi è impedito dal solaio di piano di spessore s = 22 cm. La trave in esame presenta infatti estradosso complanare con

l'estradosso del solaio di piano, il quale su di essa si appoggia mediante appositi collegamenti e giunti legno-legno, risultando a ricalare per un'altezza pari a 34 cm.

$\sigma_{m,d} = 6 \times M_{d,v} / B \times H^2 = 13,45$ MPa

$\sigma_{m,d} / k_{crit} \times f_{m,d} =$ **0,76 < 1; verifica positiva**

- **Verifica di resistenza a taglio:**

La sollecitazione massima è agli appoggi e vale 106,08 KN. La verifica prevede la seguente disuguaglianza:

$\tau_{d,v} \leq f_{v,d}$

$\tau_{d,v} = 1,5\ V_{d,v} / (b \times h) = 1,78$ MPa

$\tau_{d,v} / f_{v,d} =$ **0,85< 1; verifica positiva**

La sezione risulta correttamente dimensionata per la resistenza agli stati limite ultimi.

VERIFICHE DI SICUREZZA AGLI SLE

Per il calcolo della freccia si è considerato il medesimo schema statico utilizzato per le verifiche di resistenza.

La deformazione istantanea w_{ist} si calcola con riferimento alla combinazione di carico rara:

$F_{d,rara} = g_{k1} + g_{k2} + q_{k1}$

Considerando al solito le proiezioni dei carichi ortogonali alla direzione della trave:

$W_{ist} = W_{ist,g} + W_{ist,Q1}$

Nel calcolo della deformazione finale si deve tener conto del comportamento reologico del legno. Al termine di deformazione istantanea si deve quindi sommare il termine di deformazione differita, calcolata con riferimento alle componenti quasi-permanenti delle azioni.

$F_{d,perm} = g_{k1} + g_{k2} + \Psi_{21} q_{k1}$

$W_{fin} = W_{ist,g}(1+k_{def}) + W_{ist,Q1}(1+\Psi_{21}*k_{def})$;

Dove:

$\Psi_{21} = 0,6$ per la destinazione d'uso considerata.

$K_{def} = 0,80$

I valori delle frecce massime possono essere ricavate considerando:

$w_{m,\,max} = q*L'^4/8*E*J$

trascurando la componente di freccia dovuta alla deformabilità tagliante.

Si ottengono quindi i seguenti valori di freccia:

$w_{ist,G} = 1,16$ mm

$w_{ist,Q} = 1,53$ mm

$W_{ist} = W_{ist,g} + W_{ist,Q1} = 2,69$ mm **< L'/300** = 7,06 mm; **verifica positiva**

$W_{fin} = 1,16 \times (1+0,8) + 1,53 \times (1+0,6 \times 0,8) = 4,35$ mm **< L'/200** = 10,06 mm; **verifica positiva**

13.4.4.2 VERIFICA COLLEGAMENTI PARETI X-LAM

Le tipologie di collegamento da dimensionare e verificare per i pannelli X-lam sono:

1. il collegamento alla base delle pareti del piano terra su cordolo o platea di fondazione;
2. il collegamento di testa delle pareti al solaio in legno;
3. il collegamento alla base delle pareti dei piani superiori;

4. il collegamento laterale tra pannelli.

Nel programma di calcolo utilizzato sono stati inseriti come dati, nei criteri di progetto, i valori caratteristici dei fissaggi precedentemente dimensionati in funzione delle azioni risultanti sui pannelli stessi.

Per quanto riguarda il dimensionamento dei fissaggi al piede, bisogna distinguere tra due tipologie: i collegamenti a trazione e i collegamenti a taglio. Il collegamento a trazione serve per traferire le forze verticali dovute al momento e si utilizzano fissaggi tipo hold-down e piastre forate. Il pannello è solidarizzato con gli elementi di fondazione in cemento armato, al fine di contrastare l'effetto delle azioni orizzontali sugli edifici (vento e sisma) che possono generare forze di scorrimento e forze di sollevamento del pannello rispetto alla fondazione. Il collegamento a taglio serve per traferire le forze orizzontali dovute al taglio e vengono utilizzati angolari ad L.

Nel nodo parete-solaio-parete deve essere ripristinata la continuità strutturale tramite sistemi di giunzione analoghi a quelli utilizzati in fondazione, che consentano il collegamento del solaio intermedio con il pannello inferiore e superiore.

Il collegamento laterale tra pannelli è dimensionato per trasferire le forze di taglio che si trasmettono da un pannello all'altro in una parete sollecitata a carichi orizzontali. I pannelli pareti utilizzati per il progetto del Polo dinamico presentano larghezza pari a 120 cm.

Le verifiche dei collegamenti a trazione (hold-down e piastre forate) è una verifica a presso flessione con distribuzione tipo stress-block.

La verifica delle connessioni al piede e di testa alla parete rispettivamente, viene eseguita con le formule:

$(V/L)/(r_{vpk}*K_{mod}/\gamma_{connessioni})\leq 1$

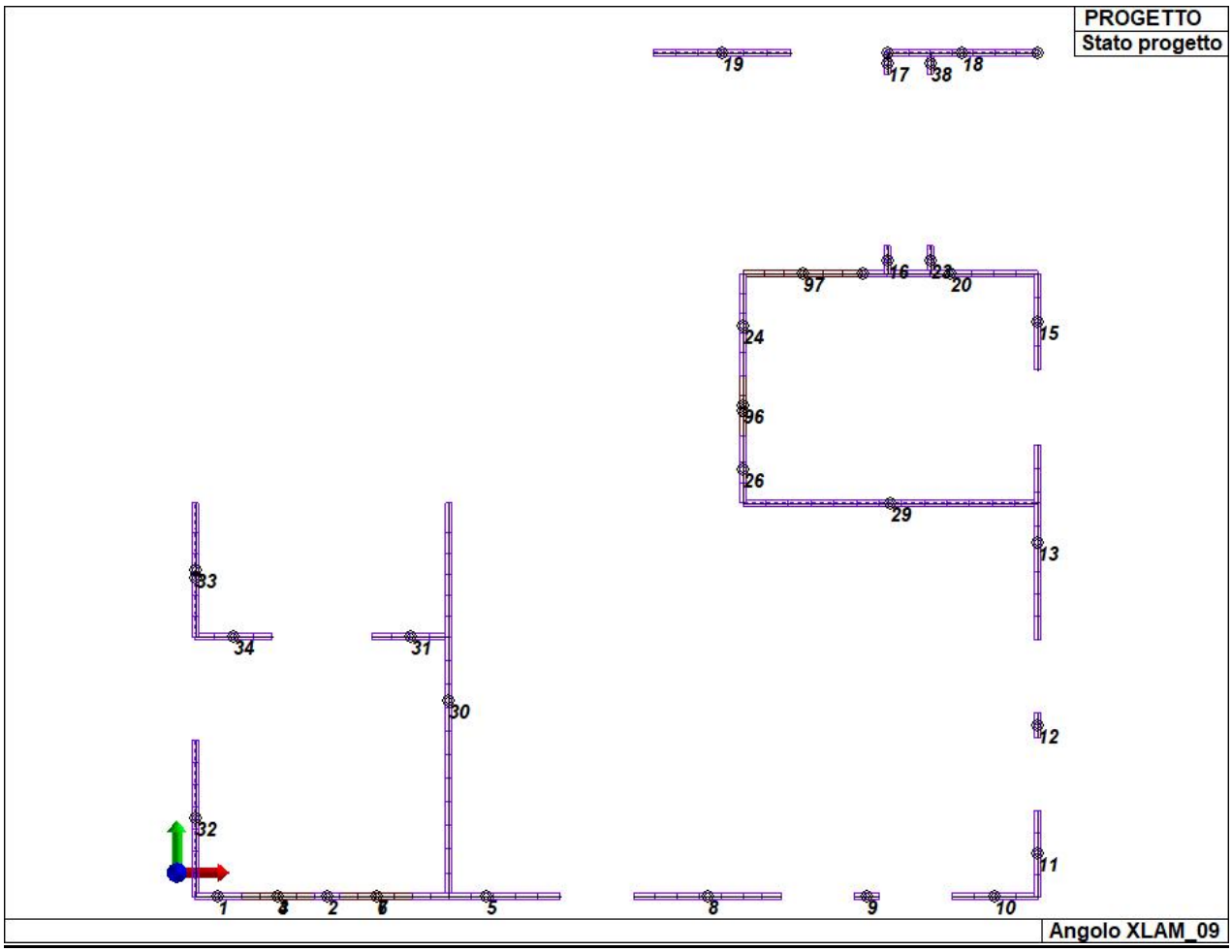
$(V/L)/(r_{vtk}*K_{mod}/\gamma_{connessioni})\leq 1$

dove r_{vpk} e r_{vtk} sono rispettivamente la resistenza caratteristica del collegamento scelto espresso in KN/ml e L è la lunghezza della parete.

Per quanto riguarda le resistenze caratteristiche dei collegamenti proposti si è preso a riferimento il materiale tecnico ETA di un produttore sul mercato, in modo da avere valori di riferimento.

Si riportano in allegato i documenti tecnici utilizzati per il calcolo e si riportano di seguito le verifiche eseguite mediante foglio di calcolo Excel.

- **<u>PARETI PIANO TERRA:</u>**


PROGETTO
Stato progetto
19
17
38
18
16
23
97
20
24
15
96
26
29
13
33
34
31
30
12
32
11
1
2
5
8
9
10
Angolo XLAM_09

1. VERIFICA COLLEGAMENTO A TRAZIONE (HOLD-DOWN)

N° macro	assi dis	L	H	s	d	V	N	M
		m				KN	KN	KNm
33	L-V14	3.15	3.50	0.16	0.10	137.00	61.38	233.12
32	L-V14	3.73	3.50	0.16	0.10	152.00	-67.18	-597.11
30	L-V17	9.32	3.50	0.16	0.10	420.00	-314.72	1893.64
11	L-V23	2.16	3.50	0.16	0.10	97.00	61.18	257.70
12	L-V23	0.60	3.50	0.16	0.10	16.00	-85.64	-34.60
13	L-V23	4.80	3.50	0.16	0.10	239.00	-67.63	-1220.77
15	L-V23	2.40	3.50	0.16	0.10	107.00	61.59	-301.74
26	L-V19	1.65	3.50	0.16	0.10	75.00	114.58	160.83
24	L-V19	2.49	3.50	0.16	0.10	116.00	-78.57	388.49
16	L-V21	0.60	3.50	0.16	0.10	20.00	106.44	27.48
17	L-V21	0.60	3.50	0.16	0.10	11.00	64.63	-16.86
23	L-V22	0.60	3.50	0.16	0.10	21.00	122.71	31.42
38	L-V22	0.60	3.50	0.16	0.10	14.00	104.53	-16.29
34	L-O4	1.80	3.50	0.16	0.10	61.00	40.53	202.29
31	L-O4	1.80	3.50	0.16	0.10	65.00	62.76	-155.61
1	L-O7	1.20	3.50	0.16	0.10	38.00	150.99	-43.03
2	L-O7	0.60	3.50	0.16	0.10	21.00	-5.11	-9.05
5	L-O7	3.60	3.50	0.16	0.10	133.00	59.75	514.18
8	L-O7	3.60	3.50	0.16	0.10	164.00	54.74	-768.40
9	L-O7	0.60	3.50	0.16	0.10	15.00	-6.44	30.05
10	L-O7	2.16	3.50	0.16	0.10	88.00	169.24	-217.14
29	L-O9	7.20	3.50	0.16	0.10	301.00	-26.73	-1089.55
20	L-O10	4.20	3.50	0.16	0.10	189.00	-232.09	797.86
18	L-O11	3.89	3.50	0.16	0.10	140.00	65.08	557.27
19	L-O11	3.15	3.50	0.16	0.10	137.00	64.59	-284.31

	gamma l	gamma a	gamma c	Kmod
Comb vento	1,50	1,25	1,80	0,90
Comb sisma	1,50	1,25	1,80	1,00
Comb sisma SR				

fch90k	
15750,00	KN/mq

											vento		sisma
Fissaggio base Hold down			**WHT 620**	fissaggio totale		R1,k legno=		106,20	KN	R1,d legno=		63,72	70,80
				rondella		R1,k acciaio=		85,20	KN	R1,d acciaio=		68,16	68,16
			M20x240	ancorante M20		R1,k cls=		114,35	KN	R1,d cls=		63,53	63,53
				chiodi LBA 4x60 mm							Rd,coll=	63,53	63,53
											Rhk, coll		95,29

Verifica

N° macro	Nu+= KN	Nu-= KN	risultante C (KN)	b m		Mu+-= KNm	V
33			129.20	0.08	0.0769	298.57	0.78
32			257.76	0.15	0.15	797.33	0.75
30			378.25	0.23	0.23	2009.74	0.94
11			192.93	0.11	0.11	326.40	0.79
12			149.17	0.09	0.09	50.83	0.68
13			321.74	0.19	0.19	1325.83	0.92
15			192.52	0.11	0.11	364.02	0.83
26	508.22		139.53			389.07	0.64
24			205.63	0.12	0.12	388.90	1.00
16	254.11		20.62			61.13	0.87
17	254.11		62.43			61.13	0.53
23	254.11		4.35			61.13	1.00
38	254.11		22.53			61.13	0.68
34			150.05	0.09	0.09	215.97	0.94
31			127.82	0.08	0.08	162.23	0.96
1	254.11		-23.93			137.36	0.91
2			68.64	0.04	0.04	31.89	0.28
5			194.36	0.12	0.12	567.45	0.91
8			199.37	0.12	0.12	592.91	1.00
9			69.97	0.04	0.04	32.24	0.93
10	508.22		84.87			518.66	0.75
29			153.79	0.09	0.09	991.28	0.80
20			359.15	0.21	0.21	969.93	0.82
18	508.22		189.03			958.28	0.71
19	254.11		62.47			385.12	0.99

2. ***VERIFICA COLLEGAMENTO A TAGLIO***

	gamma l	gamma a	gamma c	Kmod
Comb vento	1,50	1,25	1,25	0,90
Comb sisma	1,50	1,25	1,25	1,00
Comb sisma SR	1,95	1,25	1,25	1,00

Fissaggio angolari TIE DOWN				**TITAN TCN 240**	R2,3,k legno=		30,30	KN	R2,3,d legno=	15,54
				chiodi LBA 4x60 mm	R2,3,k cls=		52,70	KN	R2,3,dcls=	42,16
				cls non fessurato					Rd,coll=	15,54
		ancorante chimico M16x160 cl. 5.8								

N° macro	assi dis	L m	H	s	V KN	V/ml	# coll/ml	# coll/ml	verifica
33	L-V14	3.15	3.50	0.16	137.00	43.49	2.80	3	0.93
32	L-V14	3.73	3.50	0.16	152.00	40.75	2.62	3	0.87

30	L-V17	9.32	3.50	0.16	420.00	45.06	2.90	3	0.97
11	L-V23	2.16	3.50	0.16	97.00	44.91	2.89	3	0.96
12	L-V23	0.60	3.50	0.16	16.00	26.67	1.72	2	0.86
13	L-V23	4.80	3.50	0.16	239.00	49.79	3.20	4	0.80
15	L-V23	2.40	3.50	0.16	107.00	44.58	2.87	3	0.96
26	L-V19	1.65	3.50	0.16	75.00	45.45	2.93	3	0.98
24	L-V19	2.49	3.50	0.16	116.00	46.59	3.00	4	0.75
16	L-V21	0.60	3.50	0.16	20.00	33.33	2.15	3	0.72
17	L-V21	0.60	3.50	0.16	11.00	18.33	1.18	2	0.59
23	L-V22	0.60	3.50	0.16	21.00	35.00	2.25	3	0.75
38	L-V22	0.60	3.50	0.16	14.00	23.33	1.50	2	0.75
34	L-O4	1.80	3.50	0.16	61.00	33.89	2.18	3	0.73
31	L-O4	1.80	3.50	0.16	65.00	36.11	2.32	3	0.77
1	L-O7	1.20	3.50	0.16	38.00	31.67	2.04	3	0.68
2	L-O7	0.60	3.50	0.16	21.00	35.00	2.25	3	0.75
5	L-O7	3.60	3.50	0.16	133.00	36.94	2.38	3	0.79
8	L-O7	3.60	3.50	0.16	164.00	45.56	2.93	3	0.98
9	L-O7	0.60	3.50	0.16	15.00	25.00	1.61	2	0.80
10	L-O7	2.16	3.50	0.16	88.00	40.74	2.62	3	0.87
29	L-O9	7.20	3.50	0.16	301.00	41.81	2.69	3	0.90
20	L-O10	4.20	3.50	0.16	189.00	45.00	2.90	3	0.97
18	L-O11	3.89	3.50	0.16	140.00	35.99	2.32	3	0.77
19	L-O11	3.15	3.50	0.16	137.00	43.49	2.80	3	0.93

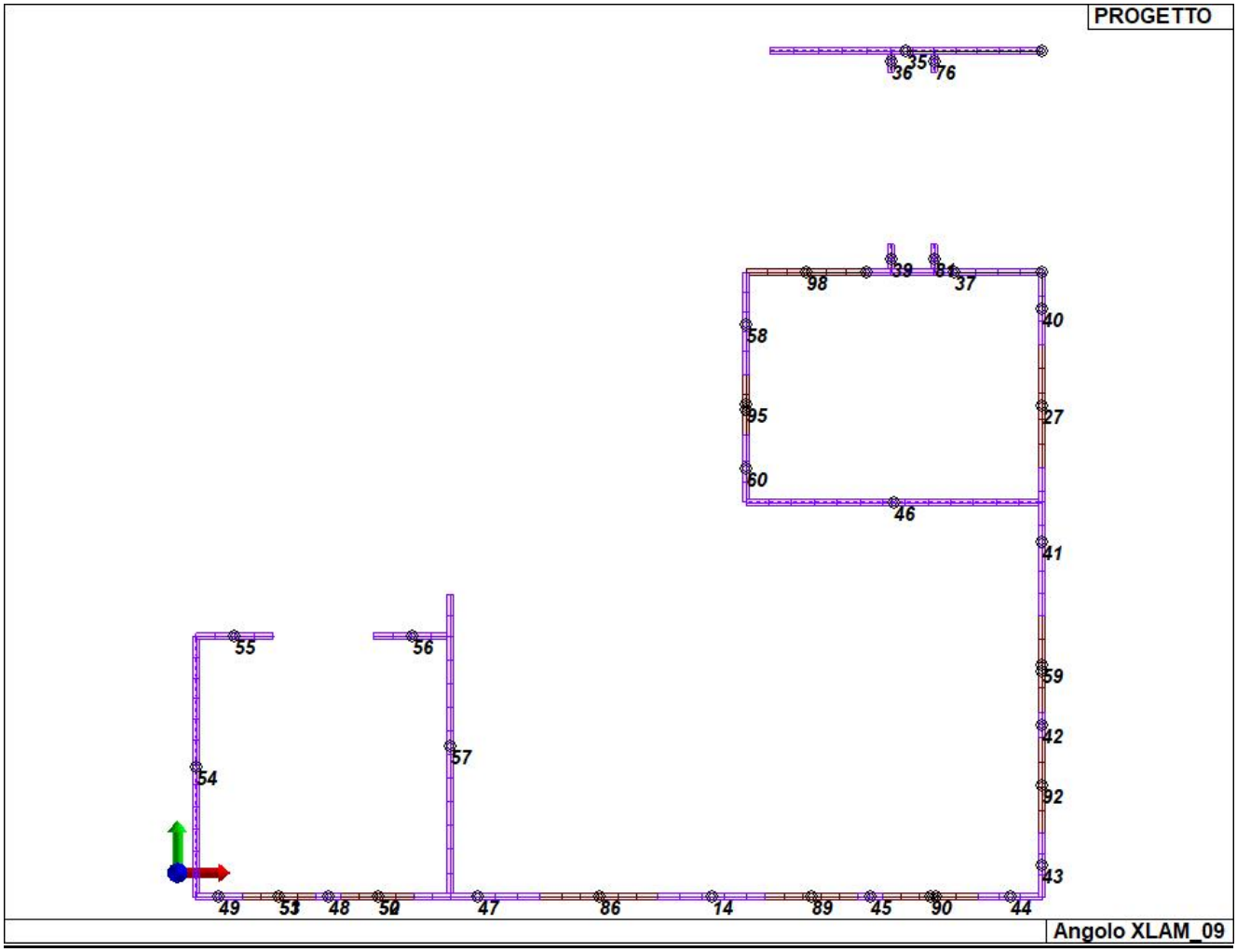
3. VERIFICA CONNESSIONI LATERALI

Connessioni laterali					**Viti VGZ fi 7 mm Lg. 100 mm**				
						Rvk=		2,65	KN

N° macro	assi dis	L m	H	s	V KN	tv KN/m	# al m di h	passo
33	L-V14	3.15	3.50	0.16	137.00	43.49	8.42	11.88
32	L-V14	3.73	3.50	0.16	152.00	40.75	7.89	12.68
30	L-V17	9.32	3.50	0.16	420.00	45.06	8.72	11.47
11	L-V23	2.16	3.50	0.16	97.00	44.91	8.69	11.51
12	L-V23	0.60	3.50	0.16	16.00	26.67	5.16	19.38
13	L-V23	4.80	3.50	0.16	239.00	49.79	9.64	10.38
15	L-V23	2.40	3.50	0.16	107.00	44.58	8.63	11.59
26	L-V19	1.65	3.50	0.16	75.00	45.45	8.80	11.37
24	L-V19	2.49	3.50	0.16	116.00	46.59	9.02	11.09
16	L-V21	0.60	3.50	0.16	20.00	33.33	6.45	15.50
17	L-V21	0.60	3.50	0.16	11.00	18.33	3.55	28.19
23	L-V22	0.60	3.50	0.16	21.00	35.00	6.77	14.76
38	L-V22	0.60	3.50	0.16	14.00	23.33	4.52	22.15
34	L-O4	1.80	3.50	0.16	61.00	33.89	6.56	15.25

31	L-O4	1.80	3.50	0.16	65.00	36.11	6.99	14.31
1	L-O7	1.20	3.50	0.16	38.00	31.67	6.13	16.32
2	L-O7	0.60	3.50	0.16	21.00	35.00	6.77	14.76
5	L-O7	3.60	3.50	0.16	133.00	36.94	7.15	13.99
8	L-O7	3.60	3.50	0.16	164.00	45.56	8.82	11.34
9	L-O7	0.60	3.50	0.16	15.00	25.00	4.84	20.67
10	L-O7	2.16	3.50	0.16	88.00	40.74	7.88	12.68
29	L-O9	7.20	3.50	0.16	301.00	41.81	8.09	12.36
20	L-O10	4.20	3.50	0.16	189.00	45.00	8.71	11.48
18	L-O11	3.89	3.50	0.16	140.00	35.99	6.96	14.36
19	L-O11	3.15	3.50	0.16	137.00	43.49	8.42	11.88

- **PARETI PIANO PRIMO:**



1. ***VERIFICA COLLEGAMENTO A TRAZIONE (HOLD-DOWN E PIASTRE FORATE)***

N° macro	assi dis	L m	H	s	d	V KN	N KN	M KNm
54	L-V14	6.34	3.50	0.16	0.10	228.00	-20.12	-406.73
57	L-V17	7.20	3.50	0.16	0.10	297.00	-170.20	702.94
43	L-V23	1.76	3.50	0.16	0.10	43.00	66.94	64.76
42	L-V23	0.60	3.50	0.16	0.10	2.00	-50.63	-4.84
41	L-V23	4.20	3.50	0.16	0.10	134.00	-22.40	-470.25
40	L-V23	2.20	3.50	0.16	0.10	48.00	56.38	-115.82
60	L-V19	1.65	3.50	0.16	0.10	36.00	7.77	70.98
58	L-V19	2.49	3.50	0.16	0.10	74.00	-44.63	178.07
39	L-V21	0.60	3.50	0.16	0.10	10.00	-21.77	-6.46
36	L-V21	0.60	3.50	0.16	0.10	5.00	-13.68	3.36
81	L-V22	0.60	3.50	0.16	0.10	9.00	-67.10	-5.41
76	L-V22	0.60	3.50	0.16	0.10	5.00	25.14	-2.26
55	L-O4	1.80	3.50	0.16	0.10	46.00	40.37	-60.84
56	L-O4	1.80	3.50	0.16	0.10	45.00	20.57	-51.01
49	L-O7	1.20	3.50	0.16	0.10	19.00	83.66	-8.26
48	L-O7	0.60	3.50	0.16	0.10	12.00	-1.53	1.33
47	L-O7	3.40	3.50	0.16	0.10	68.00	57.72	217.82
14	L-O7	3.00	3.50	0.16	0.10	51.00	31.39	-217.77
45	L-O7	0.60	3.50	0.16	0.10	3.00	-3.23	2.67
44	L-O7	1.76	3.50	0.16	0.10	37.00	66.68	-58.39
46	L-O9	7.20	3.50	0.16	0.10	229.00	-58.80	-533.46
37	L-O10	4.20	3.50	0.16	0.10	146.00	-43.67	248.28
35	L-O11	6.50	3.50	0.16	0.10	210.00	-167.89	1200.91

		gamma l	gamma a	gamma c	Kmod
Comb vento		1,50	1,25	1,80	0,90
Comb sisma		1,50	1,25	1,80	1,00
Comb sisma SR					

fch90k	
15750,00	KN/mq

									vento	sisma
Fissaggio base Hold down	**WHT 620**	fissaggio totale	R1,k legno=	106,20	KN	R1,d legno=			63,72	70,80
		rondella	R1,k acciaio=	85,20	KN	R1,d acciaio=			68,16	68,16
		ancorante M20	R1,k cls=		KN	R1,d cls=				
		chiodi LBA 4x60 mm					Rd,coll=		63,72	68,16
							Rhk, coll			102,24
Fissaggio base Angolare	**WZU 482**	fissaggio totale	R1,k legno=	38,60	KN	R1,d legno=			23,16	25,73
a trazione		rondella	R1,k acciaio=	21,70	KN	R1,d acciaio=			20,67	20,67
		bullone M20								
		chiodi LBA 4x60 mm					Rd,coll=		20,67	20,67
							Rhk, coll			31,00
Fissaggio Piastra forata	LBV 2 mm x 1200 mm x 100 mm		Rax,k=	44,6	KN	Rax,d=			35,68	35,68
		chiodi LBA 4x60 mm	Rv,k=	2,48	KN		Rv,d=		1,49	1,65
			n=	63	pz	n*mef*Rv,d=			66,56	73,95
			n file=	21			Rd,coll=		35,68	35,68
			mef=	0,71			Rhk, coll			53,52
Fissaggio Piastra forata	LBV 2 mm x 1200 mm x 80 mm		Rax,k=	44,6	KN	Rax,d=			35,68	35,68
		chiodi LBA 4x60 mm	Rv,k=	2,48	KN		Rv,d=		1,49	1,65
			n=	40	pz	n*mef*Rv,d=			42,26	46,95
			n file=	20			Rd,coll=		35,68	35,68
			mef=	0,71			Rhk, coll			53,52

Verifica

N° macro	Nu+= KN	Nu-= KN	risultante C (KN)	b m		Mu+-= KNm	V
54			91.48	0.05	0.05	506.58	0.80
57			190.87	0.11	0.11	748.61	0.94
43	214.08		40.10			176.55	0.68
42			86.31	0.05	0.05	30.81	0.16
41			129.44	0.08	0.08	480.92	0.98
40	214.08		50.66			223.65	0.78
60			60.39	0.04	0.04	86.89	0.82
58			112.79	0.07	0.07	214.68	0.83
39			57.45	0.03	0.03	23.39	0.28
36			49.36	0.03	0.03	21.22	0.16
81			102.78	0.06	0.06	34.83	0.16
76	71.36		10.54			32.70	0.42
55	136.32		27.79			114.49	0.83
56	136.32		47.59			114.49	0.60
49	142.72		-12.30			77.74	0.69
48			37.21	0.02	0.02	17.89	0.07
47	214.08		49.32			352.10	0.89
14	214.08		75.65			309.28	0.85
45			38.91	0.02	0.02	18.36	0.15
44	142.72		4.68			117.70	0.96
46			126.96	0.08	0.08	690.82	0.77

37		111.83	0.07	0.07	367.44	0.68
35		274.93	0.16	0.16	1208.20	0.99

2. *VERIFICA COLLEGAMENTO A TAGLIO*

	gamma l	gamma a	gamma c	Kmod
Comb vento	1,50	1,25	1,25	0,90
Comb sisma	1,50	1,25	1,25	1,00
Comb sisma SR	1,95	1,25	1,25	1,00

Fissaggio angolari TIE DOWN		**TITAN TTN 240**	R2,3,k legno=	37,90	KN	R2,3,d legno=		19,44
		chiodi LBA 4x60 mm						
		nv=nh=36pz					Rd,coll=	19,44

N° macro	assi dis	L m	H	s	V KN	V/ml	# coll/ml	# coll/ml	verifica
54	L-V14	6.34	3.50	0.16	228.00	35.96	1.85	2	0.93
57	L-V17	7.20	3.50	0.16	297.00	41.25	2.12	3	0.71
43	L-V23	1.76	3.50	0.16	43.00	24.43	1.26	2	0.63
42	L-V23	0.60	3.50	0.16	2.00	3.33	0.17	1	0.17
41	L-V23	4.20	3.50	0.16	134.00	31.90	1.64	2	0.82
40	L-V23	2.20	3.50	0.16	48.00	21.82	1.12	2	0.56
60	L-V19	1.65	3.50	0.16	36.00	21.82	1.12	2	0.56
58	L-V19	2.49	3.50	0.16	74.00	29.72	1.53	2	0.76
39	L-V21	0.60	3.50	0.16	10.00	16.67	0.86	1	0.86
36	L-V21	0.60	3.50	0.16	5.00	8.33	0.43	1	0.43
81	L-V22	0.60	3.50	0.16	9.00	15.00	0.77	1	0.77
76	L-V22	0.60	3.50	0.16	5.00	8.33	0.43	1	0.43
55	L-O4	1.80	3.50	0.16	46.00	25.56	1.31	2	0.66
56	L-O4	1.80	3.50	0.16	45.00	25.00	1.29	2	0.64
49	L-O7	1.20	3.50	0.16	19.00	15.83	0.81	1	0.81
48	L-O7	0.60	3.50	0.16	12.00	20.00	1.03	2	0.51
47	L-O7	3.40	3.50	0.16	68.00	20.00	1.03	2	0.51
14	L-O7	3.00	3.50	0.16	51.00	17.00	0.87	1	0.87
45	L-O7	0.60	3.50	0.16	3.00	5.00	0.26	1	0.26
44	L-O7	1.76	3.50	0.16	37.00	21.02	1.08	2	0.54
46	L-O9	7.20	3.50	0.16	229.00	31.81	1.64	2	0.82
37	L-O10	4.20	3.50	0.16	146.00	34.76	1.79	2	0.89
35	L-O11	2.60	3.50	0.16	210.00	80.77	4.16	5	0.83

3. VERIFICA CONNESSIONI LATERALI

Connessioni laterali					Viti VGZ fi 7 mm Lg. 100 mm				
						Rvk=		2,65	KN

N° macro	assi dis	L	H	s	V	tv	# al m di	
		m			KN	KN/m	h	passo
54	L-V14	6.34	3.50	0.16	228.00	35.96	6.96	14.37
57	L-V17	7.20	3.50	0.16	297.00	41.25	7.98	12.53
43	L-V23	1.76	3.50	0.16	43.00	24.43	4.73	21.15
42	L-V23	0.60	3.50	0.16	2.00	3.33	0.65	155.03
41	L-V23	4.20	3.50	0.16	134.00	31.90	6.17	16.20
40	L-V23	2.20	3.50	0.16	48.00	21.82	4.22	23.68
60	L-V19	1.65	3.50	0.16	36.00	21.82	4.22	23.68
58	L-V19	2.49	3.50	0.16	74.00	29.72	5.75	17.39
39	L-V21	0.60	3.50	0.16	10.00	16.67	3.23	31.01
36	L-V21	0.60	3.50	0.16	5.00	8.33	1.61	62.01
81	L-V22	0.60	3.50	0.16	9.00	15.00	2.90	34.45
76	L-V22	0.60	3.50	0.16	5.00	8.33	1.61	62.01
55	L-O4	1.80	3.50	0.16	46.00	25.56	4.95	20.22
56	L-O4	1.80	3.50	0.16	45.00	25.00	4.84	20.67
49	L-O7	1.20	3.50	0.16	19.00	15.83	3.06	32.64
48	L-O7	0.60	3.50	0.16	12.00	20.00	3.87	25.84
47	L-O7	3.40	3.50	0.16	68.00	20.00	3.87	25.84
14	L-O7	3.00	3.50	0.16	51.00	17.00	3.29	30.40
45	L-O7	0.60	3.50	0.16	3.00	5.00	0.97	103.35
44	L-O7	1.76	3.50	0.16	37.00	21.02	4.07	24.58
46	L-O9	7.20	3.50	0.16	229.00	31.81	6.15	16.25
37	L-O10	4.20	3.50	0.16	146.00	34.76	6.73	14.87
35	L-O11	2.60	3.50	0.16	210.00	80.77	15.63	6.40

Per quanto riguarda i collegamenti delle pareti del piano secondo si fa riferimento alle verifiche del piano primo.

13.4.5 VERIFICA SOLAI

Il dimensionamento dei solai lignei viene eseguito facendo riferimento alla dimensione maggiore visto che le luci inferiori, a parità di sezione e carico, risulteranno verificati in modo superiore. L'analisi prenderà a riferimento sia la condizione statica, con tutte le verifiche allo SLU ed allo SLE, oltre che il comportamento in condizione d'incendio ove la norma prevede un resistenza minima R60. Per quest'ultimo si considera l'incendio solo da un lato in quanto si ritiene che il posizionamento all'estradosso di lastre di fermacell®, necessarie per fornire una maggiore rigidezza trasversale, possa costituire idonea protezione passiva per il tempo richiesto.

Il solaio viene realizzato con elementi di trave in legno lamellare tipo GL32h posti in orizzontale ed adeguatamente collegati tra loro al fine di avere, nella direzione longitudinale, un comportamento d'insieme attraverso la mutua trasmissione di forze di taglio che saranno assorbite con appositi presidi. Il dimensionamento, quindi, avverrà, a favore di sicurezza, considerando l'elemento monodimensionale nella direzione della sua estensione. La presenza dei collegamenti tra i vari elementi e il posizionamento di lastre superiori conferiscono al sistema un'adeguata rigidezza anche nella direzione ortogonale.

Il Fermacell®, nome commerciale per individuare lastre in Gesso fibra prodotte dalla James Hardie Group , presentano varie caratteristiche meccaniche e non solo riportate nelle loro schede tecniche. Nel seguito si riporta un estratto per l'individuazione delle principali.

Sollecitazioni perpendicolari al piano lastra	
Modulo di elasticità a flessione $E_{m,mean}$	3.800,0 N/mmq
Modulo di elasticità tangenziale G_{mean}	1.600,0 N/mmq
Sollecitazioni parallele al piano lastra	
Modulo di elasticità a flessione $E_{m,mean}$	3.800,0 N/mmq
Modulo di elasticità a trazione $E_{t,mean}$	3.800,0 N/mmq
Modulo di elasticità a compressione $E_{c,mean}$	3.800,0 N/mmq
Modulo di elasticità tangenziale G_{mean}	1.600,0 N/mmq

	Spessore nominale delle lastre [mm]			
	10	12,5	15	18
Tipo si sollecitazione delle lastre				
Flessione $f_{m,k}$	4,6	4,3	4,0	3,6
Taglio $f_{v,k}$	1,9	1,8	1,7	1,6
Sollecitazione dei pannelli				
Flessione $f_{m,k}$	4,3	4,2	4,1	4,0
Trazione $f_{t,k}$	2,5	2,4	2,4	2,3
Compressione $f_{c.k}$	8,5	8,5	8,5	8,5
Taglio $f_{v,k}$	3,7	3,6	3,5	3,4

Inoltre la lastra presenta un peso specifico pari a ρ_k = 11,50 ± 0,50 kN/mc. A livello di reazione al fuoco il materiale risulta essere non combustile di classe A2-s1,d0 secondo DIN EN 13501-1 (rapportata a normativa italiana può essere considerato materiale di classe 1).

Tutti i valori meccanici sopra riportati sono stati determinati con prove dirette secondo le modalità previste da EN 1995 ovvero assimilando il Fermacell® a materiale riconducibile al legno ed in quanto tale verrà considerato nel prosieguo della trattazione in termini anche di fattori di sicurezza parziali e non come richiesto dalla Norma vigente.

Risulta evidente come il posizionamento di tale materiale all'estradosso del solaio ligneo presenta una peculiarità sia in termini di rigidezza (modesta per lo spessore utilizzato) sia per la risposta al fuoco anche in termini di compartimentazione oltre che di protezione passiva dall'estradosso.

13.4.5.1 CARATTERISTICHE MATERIALE STRUTTURALE

Il dimensionamento del solaio avviene in funzione dei vari parametri richiesti sia in termini di resistenza (verifiche allo SLU) sia in termini di garantire le corrette condizioni d'esercizio (verifiche di deformabilità e di vibrazioni). Per questo motivo si considera uno spessore di 22 cm (dimensione commerciale) ed un materiale di legno lamellare tipo GL32h di cui si riportano le caratteristiche minime previste dalla norma di classificazione del legno lamellare (UNI EN 14080:2013):

MATERIALE RICHIESTO: GL32h

- Flessione $f_{m,g,k}$ = 32,0 N/mmq;
- Trazione $f_{t,0,g,k}$ = 25,6 N/mmq;
  $f_{t,90,g,k}$ = 0,5 N/mmq;
- Compressione $f_{c,0,g,k}$ = 32,0 N/mmq;
  $f_{c,90,g,k}$ = 2,5 N/mmq;
- Taglio $f_{v,g,k}$ = 3,5 N/mmq;
- Modulo di elasticità $E_{0,g,mean}$ = 14.200,0 N/mmq;
  $E_{0,g,05}$ = 11.800,0 N/mmq;
  $E_{90,g,mean}$ = 300,0 N/mmq;
  $E_{90,g,05}$ = 250,0 N/mmq;
- Modulo a taglio $G_{g,mean}$ = 650,0 N/mmq;
  $G_{g,05}$ = 540,0 N/mmq;
- Densità $\rho_{g,k}$ = 440,0 kg/mc;
  $\rho_{g,mean}$ = 490,0 kg/mc.

Il dimensionamento e le verifiche vengono eseguite facendo riferimento ad una larghezza unitaria del solaio con un comportamento monodimensionale (a trave).

13.4.5.2 DIMENSIONAMENTO DEL SOLAIO IN CAMPO STATICO

Il solaio che verrà dimensionato è quello che presenta la luce massima pari a circa 7,80 m con un carico di natura permanente, escluso il peso proprio, pari a 1,00 kN/mq (completamente caratterizzato) ed un carico di natura variabile pari a 3,00 kN/mq in quanto la destinazione d'uso (scuola) viene ricompresa negli ambienti suscettibili di affollamento in Cat. C1.

Per tale categoria i coefficienti di combinazione (Tab. 2.5.I) risultano essere:

- ψ_{0j} = 0,7;
- ψ_{1j} = 0,7;
- ψ_{2j} = 0,6.

In definitiva i carichi da considerare per il dimensionamento risultano:

- Peso proprio solaio strutturale: g_{k1} = 0,22 x 5,00 = 1,10 kN/mq;
- Carichi permanenti definiti: g_{k2} = 1,00 kN/mq;
- Carichi variabili (cat. C1): q_k = 3,00 kN/mq.

Si vuole evidenziare come nell'analisi dei carichi non si prende in considerazione la presenza delle tramezzature in quanto tutte le pareti, realizzate con X-Lam, risultano "portanti ed in quanto tali non rimovibili e/o modificabili senza attenta analisi delle conseguenze. L'eventuale presenza di elementi di

separazione verrà verificato localmente riferendosi a situazioni ben definite. La dimensione considerata risulta quella delle aule per cui risulta difficile ipotizzare la loro separazione senza adeguate analisi.
Come già riferito si considera una striscia di solaio unitaria per l'analisi e si procede con tutte le verifiche.

VERIFICHE S.L.U.

Al fine delle verifiche S.L.U. (ovvero quelle che considerano la resistenza del materiale) si considera la seguente combinazione dei carichi:

- Carichi permanenti: γ_g (g_{k1} + g_{k2}) = 1,3 x (1,10 + 1,00) = 2,73 kN/m;
- Carichi di media durata: γ_g (g_{k1} + g_{k2}) + γ_q q_k = 7,23 kN/m.

La suddivisione delle durate dei carichi, oltre alla classe di servizio che viene assunta come "II" in quanto gli elementi risultano all'interno con condizioni di controllo sia della temperatura sia dell'umidità, risulta importante per l'assegnazione dei k_{mod} relativi per la determinazione dei valori di resistenza.

- ***CARICHI PERMANENTI***

Considerando la condizione con solo carichi permanenti i parametri risultano:

- k_{mod} = 0,6;
- k_{def} = 0,8.

A livello di coefficiente parziale di sicurezza si adotta γ_M = 1,45 considerando una produzione ordinaria senza controlli continuativi (nel qual caso la sicurezza risulterà maggiore). I parametri di resistenza risultano pari a $X_d = k_{mod} X_k / \gamma_M$ da cui si ha:

- f_{md} = 13,24 N/mmq;
- f_{vd} = 1,45 N/mmq.

Si considera uno schema di doppio appoggio da cui le massime sollecitazioni risultano:

- M_{Sd} = 20,76 kNm;
- V_{Sd} = 10,65 kN.

Segue che le massime sollecitazioni risultano:

- σ_{md} = 2,57 N/mmq da cui σ_{md}/f_{md} = 0,19 < 1;
- τ_{vd} = 0,07 N/mmq fa cui τ_{vd} /f_{vd} = 0,05 < 1.

Risulta evidente come le verifiche risultano positive.

- ***CARICHI DI MEDIA DURATA***

Considerando la condizione con tutti i carichi ove risultano dominanti quelli di media durata i parametri risultano:

- k_{mod} = 0,8.

I parametri di resistenza risultano pari a $X_d = k_{mod} X_k / \gamma_M$ da cui si ha:

- f_{md} = 17,66 N/mmq;
- f_{vd} = 1,93 N/mmq.

Si considera uno schema di doppio appoggio da cui le massime sollecitazioni risultano:

- M_{Sd} = 54,98 kNm;
- V_{Sd} = 28,20 kN.

Segue che le massime sollecitazioni risultano:

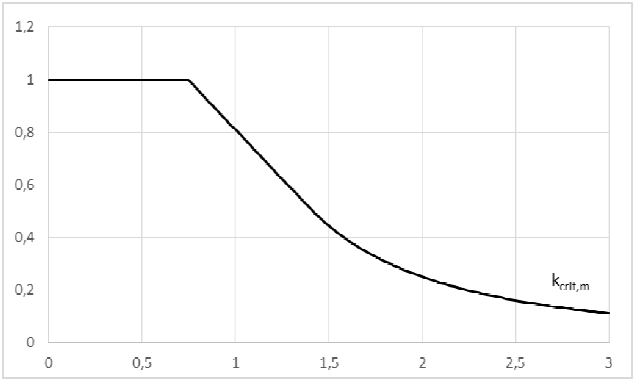
- σ_{md} = 6,82 N/mmq da cui σ_{md}/f_{md} = 0,39 < 1;

- τ_{vd} = 0,19 N/mmq fa cui τ_{vd} /f_{vd} = 0,10 < 1.

Risulta evidente come le verifiche risultano positive

- ***VERIFICA DI STABILITÀ FLESSIONALE***

Vista la dimensione della luce del solaio ed il suo spessore si procede, oltre alle sovra riportate verifiche flessionali classiche, anche alla valutazione della stabilità flessionale della sezione considerata con la formula riportata in normativa pari a $\sigma_{md}/(k_{crit,m}\ f_{md}) \leq 1$ dove $k_{crit,m}$ assume valori in funzione di $\lambda_{rel,m}$ come riportato nel diagramma seguente.



La valutazione della tensione critica viene eseguita con la formula suggerita dalla normativa ovvero $\sigma_{m,cr} = \frac{\pi}{l_{eff}} \frac{b^2}{h} E_{05} \sqrt{\frac{G_{mean}}{E_{mean}}}$ dove l_{eff} risulta pari a 0,9 l in quanto trattasi di schema in doppio appoggio con carico distribuito. Andando a sostituire si trova che $\sigma_{m,cr}$ = 54,68 N/mmq da cui $\lambda_{rel,m}$ = 0,76 che risulta leggermente superiore a 0,75 da cui $k_{crit,m}$ = 1,56-0,75 $\lambda_{rel,m}$ = 0,99. Il valore di $k_{crit,m}$ risulta molto prossimo all'unità da cui è immediato riscontrare come la stabilità flessionale non risulta modificare in modo importante la verifica tensionale già ampiamente positiva.

VERIFICHE S.L.E.

- ***VERIFICA DI DEFORMABILITÀ***

A livello di verifiche S.L.E. si considera sia la condizione deformativa a breve e lungo termine sia la condizione indotta dalle vibrazioni.

A livello di verifica di deformabilità si considerano i carichi permanenti e variabili con il valore caratteristico. Si calcola la deformazione in modo autonomo sempre con lo schema di doppio appoggio considerando anche la deformabilità a taglio oltre che quella flessionale. Si ha che:

- f_g = 8,17 mm;
- f_q = 11,61 mm.

La deformazione totale a tempo 0 risulta essere la somma delle singole deformazioni ovvero:

- $f_{tot,0} = f_g + f_q$ = 19,78 mm pari ad L/394.

La deformazione totale a tempo infinito deve considerare gli effetti viscosi indotti dai carichi di natura permanente da cui:

- $f_{tot,\infty} = (1+k_{def})\ f_g + f_q$ = 24,68 mm pari ad L/316.

Le verifiche di deformabilità risultano positive facendo riferimento a quanto previsto al §4.4.7 delle NTC 2018 in merito agli Stati Limite di Esercizio per le strutture lignee. Particolare attenzione viene posta alla limitazione di L/300 per i soli carichi variabili (nel nostro caso si ha L/670 circa) e di L/200 per i carichi totali a tempo infinito (nel nostro caso siamo ad L/316).

- ***VERIFICA VIBRAZIONALE***

Relativamente alle verifiche di vibrazioni la bibliografia è ricca di formulazioni che portano a valutazioni diverse. Nella seguente redazione si farà riferimento ad alcune formulazioni per procedere alle considerazioni di merito. I diversi riferimenti normativi procedono con limiti diversi (frequenza e/o spostamenti massimi) con diversi riferimenti di carico da considerare in termini di massa. Il riferimento EN 1995 pone a riferimento un dimensionamento da eseguirsi con il solo carico permanente mentre il CNR DT 207 parla di carico valutato in condizione semi permanente. I risultati che si ottengono, come è prevedibile, risultano avere valenza diversa. Altro aspetto importante è la modalità di valutazione della rigidezza del sistema considerando o solamente il comportamento monodimensionale o considerando anche l'effetto bidimensionale (effetto lastra).In funzione delle risultanze e delle metodologie i riferimenti normativi obbligano o meno ad eseguire ulteriori valutazioni più o meno complesse. Ricordiamo che la valutazione delle vibrazioni di una struttura (e di un solaio in particolare) è da ricondurre alla percezione umana che assume intervalli più o meno di sensibilità soggettiva. Quello che è senza dubbio è che all'aumentare del valore della frequenza principale la sensibilità umana cala. I diversi riferimenti normativi, infatti, rapportano valori superiori all'interno dell'intervallo 4-8 Hz, valori, soprattutto quelli maggiori, particolarmente impegnativi. Ricordiamo che i valori fanno sempre riferimento a solai aventi destinazione residenziale; nel caso in esame con destinazione scolastica i valori possono ritenersi soddisfatti anche se leggermente inferiori ai limiti previsti. In tale ottica si è concordato con la Committenza un valore minimo non inferiore a 5 Hz[1], valore sotto al quale non scendere al fine di preservare le sensazioni che potrebbero ingenerarsi a fronte di tale evenienza. Il calcolo viene eseguito con la consueta formula riportata anche sul documento EN 1995-1-1 (Eurocodice sul legno)

$$f = \frac{\pi}{2\,l^2}\sqrt{\frac{E\,J}{m}}$$

dove m rappresenta la massa per unità di lunghezza riferita alla base di riferimento del momento d'inerzia. Non risulta del tutto chiaro a quale massa si debba fare riferimento per il calcolo ovvero solo quella permanente o a quella per la combinazione quasi permanente. Si riportano i risultati per entrambe le condizioni:

- carico solo permanente (p_d = 2,10 kN/mq): f = 6,26 Hz;
- carico in combinazione quasi permanente ((p_d = 3,90 kN/mq): f = 4,60 Hz.

Risulta immediato osservare come nel primo caso la verifica risulta ampiamente soddisfatta mentre nel secondo caso si è un po' al di sotto. Per questo motivo occorre ricordare come la valutazione della frequenza è stata valutata senza mettere in conto il potenziale (e naturale) irrigidimento degli elementi

[1] Nel testo "Strutture in legno" edito da Hoepli di Piazza, Tomasi e Modena si trova scritto "Sempre per il caso abbastanza frequente dei solai sui quali sia previsto un intenso calpestio, salvo altre esigenze specifiche, è in generale opportuno che la frequenza naturale f1 presentata dal solaio stesso non sia inferiore a 5 Hz".

secondari che, anche se in questo caso risultano di modesta influenza, tendono ad aumentare il valore della frequenza.

Ulteriore considerazione è relativa alla non considerazione dell'effetto lastra (bidimensionale) che, nel caso in esame, non risulta del tutto quantificabile in quanto si riscontra un comportamento prevalentemente monodimensionale ma la presenza dei collegamenti tra singoli pannelli fornisce, anche se modesto, un contributo irrigidente che apporta un beneficio in termini di incremento della frequenza propria.

In ultima analisi si riporta, in forma di diagramma, l'andamento delle frequenze, nelle due condizioni di "carico", in funzione della luce. Questo aspetto vuole anche evidenziare come al diminuire della luce di calcolo (valori presenti in alcune zone degli edifici) la frequenza tende ad aumentare portandosi su valori importanti.

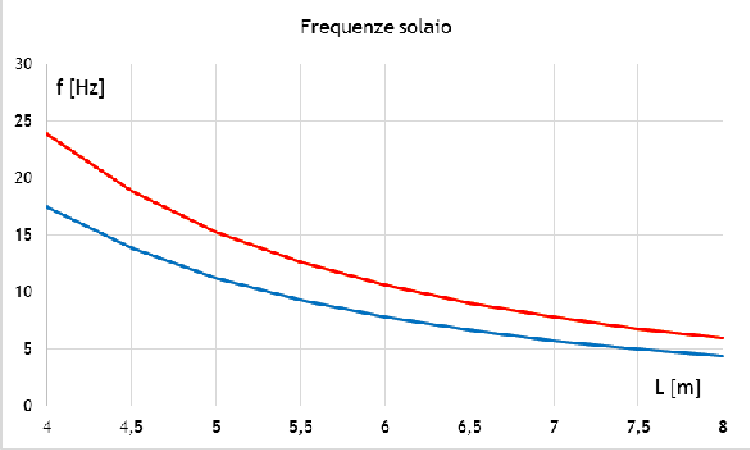


Figura 51: variazione frequenza in funzione della luce

Nella *Figura 51* si riporta in rosso la condizione di carico permanente ed in blu quella quasi permanente. L'asticella di 5 Hz viene raggiunta proprio in prossimità della luce in oggetto per la condizione di carico quasi permanente (per L = 7,48 m si ha f = 5,00 Hz), valore che si ritiene accettabile per le considerazioni poste in precedenza.

14 CARATTERISTICHE A AFFIDABILITÀ CODICE DI CALCOLO

Il codice di calcolo, utilizzato per il dimensionamento degli elementi strutturali, è PRO SAP e risulta testato ed affidabile secondo anche le indicazioni riportate sul sito della software house produttrice (2SI s.r.l).

Informazioni sul codice di calcolo	
Titolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2018-07-183)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Codice Licenza:	Licenza dsi3083

Affidabilità dei codici utilizzati

2S.I. ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche.
E' possibile reperire la documentazione contenente alcuni dei più significativi casi trattati al seguente link: http://www.2si.it/Software/Affidabilità.htm

15 STRUTTURE DI FONDAZIONE

Per quanto riguarda il dimensionamento delle fondazioni della struttura si rimanda all'elaborato "ST-R 13 Relazione Geotecnica" in cui sono riportate tutte le considerazioni geotecniche e relative alle fondazioni.

San Giorgio di Piano, lì 24 Giugno 2019

Ing. Francesca Malaguti
Ing. Paolo Parma

16 ALLEGATI

- ETA collegamenti pannelli X-lam

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Authorised and notified according to Article 29 of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011

European Technical Assessment ETA-11/0086 of 2015-01-26

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:	Rotho Blaas WHT hold downs and angle brackets
Product family to which the above construction product belongs:	Three-dimensional nailing plate (Angle brackets and hold-downs for timber-to-timber or timber-to-concrete or steel connections)
Manufacturer:	Rotho Blaas s.r.l Via dell'Adige 2/1 IT-38040 Cortaccia (BZ) Tel. + 39 0471 81 84 00 Fax + 39 0471 81 84 84 Internet www.rothoblaas.com
Manufacturing plant:	Rotho Blaas s.r.l Manufacturing plant II
This European Technical Assessment contains:	26 pages including 2 annexes which form an integral part of the document
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	Guideline for European Technical Approval (ETAG) No. 015 Three Dimensional Nailing Plates, April 2013, used as European Assessment Document (EAD).
This version replaces:	The previous ETA with the same number issued on 2011-02-01 and expiry on 2015-01-26

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product and intended use

Technical description of the product
Rotho Blaas WHT angle brackets or hold-downs, respectively, are one-piece non-welded or welded, face-fixed angle brackets to be used in timber to timber or in timber to concrete or to steel connections. They are connected to construction members made of timber or wood-based products with profiled (ringed shank) nails or screws according to EN 14592 or screws and profiled nails according to ETA-13/0523 and to concrete or steel members with bolts or metal anchors.

The angle brackets or hold-downs with a steel plate thickness of 2 mm to 4 mm are made from pre-galvanized steel S250 GD / Z 275 or DX 51 D / Z 275 according to EN 10346 with $R_e \geq 250$ N/mm², $R_m \geq 360$ N/mm² and $A_{80} \geq 19\%$ or steel grade S355 according to EN 10025-2. The Washers are made from steel grade S235 according to EN 10025-2. Dimensions, hole positions and typical installations are shown in Annex A and B. Rotho Blaas angle brackets and hold-downs are made from steel with tolerances according to EN 10143.

2 Specification of the intended use in accordance with the applicable EAD

The angle brackets and hold-downs are intended for use in making connections in load bearing timber structures, as a connection between a column or a purlin and a concrete or steel member, where requirements for mechanical resistance and stability and safety in use in the sense of the Basic Works Requirements 1 and 4 of Regulation (EU) 305/2011 shall be fulfilled.

The static and kinematical behaviour of the timber members or the supports shall be as described in Annex B.

The wood members may be of solid timber, glued laminated timber and similar glued members, or wood-based structural members with a characteristic density from 290 kg/m^3 to 420 kg/m^3. This requirement to the material of the wood members can be fulfilled by using the following materials:

- Structural solid timber classified to C14-C40 according to EN 14081,
- Glulam classified to GL24-GL36 according to EN 14080,
- LVL according to EN 14374,
- Parallam PSL,
- Intrallam LSL,
- Glued solid timber according to EN 14080,
- Cross laminated timber,
- Plywood according to EN 636

Annex B states the load-carrying capacities of the angle bracket connections for a characteristic density of 350 kg/m^3. For timber or wood based material with a lower characteristic density than 350 kg/m^3 the load-carrying capacities shall be reduced by the k_{dens} factor:

$$k_{dens} = \left(\frac{\rho_k}{350} \right)^2$$

Where ρ_k is he characteristic density of the timber in kg/m^3.

The design of the connections shall be in accordance with Eurocode 5 or a similar national Timber Code. The wood members shall have a thickness which is larger than the penetration depth of the fasteners into the members. If a wood-based panel interlayer is placed between the connector plate and the timber member, the lateral load-carrying capacity of the nail or screw, respectively, has to take into account the effect of the interlayer.

The angle brackets and hold-downs are primarily for use in timber structures subject to the dry, internal conditions defined by service classes 1 and 2 of Eurocode 5 and for connections subject to static or quasi-static loading.

The angle brackets may also be used in outdoor timber structures, service class 3, when a corrosion protection in accordance with Eurocode 5 is applied, or when stainless steel with similar or better characteristic yield and ultimate strength is employed. If a stainless steel with a lower characteristic yield or ultimate strength is employed, the load-carrying capacities $F_{m,Rk}$, $F_{v,Rk}$ or $F_{t,Rk}$ in Tables 1 and 2 (see annex B) are to be reduced proportionally.

The angle brackets and hold-downs may also be used for connections between two timber members.

The scope of the brackets regarding resistance to corrosion shall be defined according to national provisions that apply at the installation site considering environmental conditions.

The provisions made in this European Technical Assessment are based on an assumed intended working life of the connectors of 50 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

Characteristic	Assessment of characteristic
3.1 Mechanical resistance and stability*) (BWR1)	
Characteristic load-carrying capacity	See Annex B
Stiffness	No performance determined
Ductility in cyclic testing	No performance determined
3.2 Safety in case of fire (BWR2)	
Reaction to fire	The angle brackets and hold-downs are made from steel classified as **Euroclass A1** in accordance with EN 1350-1 and EC decision 96/603/EC, amended by EC Decision 2000/605/EC
3.3 Hygiene, health and the environment (BWR3)	
Influence on air quality	The product does not contain/release dangerous substances specified in TR 034, dated March 2012**)
3.7 Sustainable use of natural resources (BWR7)	No Performance Determined
3.8 General aspects related to the performance of the product	The angle brackets and hold-downs have been assessed as having satisfactory durability and serviceability when used in timber structures using the timber species described in Eurocode 5 and subject to the conditions defined by service class 1 and 2
Identification	See Annex A

*) See additional information in section 3.9 – 3.12.

**) In addition to the specific clauses relating to dangerous substances contained in this European technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

3.9 Methods of verification

The characteristic load-carrying capacities are based on the characteristic values of the nail or screw connections and the steel plates. To obtain design values the capacities have to be divided by different partial factors for the material properties, the nail connection in addition multiplied with the coefficient k_{mod}.

According to EN 1990 (Eurocode – Basis of design) paragraph 6.3.5 the design value of load-carrying capacity may be determined by reducing the characteristic values of the load-carrying capacity with different partial factors.

Thus, the characteristic values of the load–carrying capacity are determined also for timber failure $F_{Rk,H}$ (obtaining the embedment strength of nails or screws subjected to shear or the withdrawal capacity of the most loaded nail or screw, respectively) as well as for steel plate failure $F_{Rk,S}$. The design value of the load–carrying capacity is the smaller value of both load–carrying capacities.

$$F_{Rd} = \min\left\{\frac{k_{mod} \cdot F_{Rk,H}}{\gamma_{M,H}}; \frac{F_{Rk,S}}{\gamma_{M,S}}\right\}$$

Therefore, for timber failure the load duration class and the service class are included. The different partial factors γ_M for steel or timber, respectively, are also correctly taken into account.

3.10 Mechanical resistance and stability

See annex B for the characteristic load-carrying capacity in the different directions F_1 to F_3.

The characteristic capacities of the angle brackets and hold-downs are determined by calculation assisted by testing as described in the EOTA Guideline 015 clause 5.1.2. They should be used for designs in accordance with Eurocode 5 or a similar national Timber Code.

No performance has been determined in relation to ductility of a joint under cyclic testing. The contribution to the performance of structures in seismic zones, therefore, has not been assessed.

No performance has been determined in relation to the joint's stiffness properties to be used for the analysis of the serviceability limit state.

3.11 Aspects related to the performance of the product

3.11.1 Corrosion protection in service class 1 and 2.
In accordance with ETAG 015 the zinc-coated hold downs and angle brackets have a zinc coating weight of min Z275. The steel employed is S250 GD+Z275 to EN 10346:2009 or DX51D with min Z275 according to EN 10346:2009, and steel grade S355 according to EN 10025-2 with Fe Zn 12C.

3.12 General aspects related to the fitness for use of the product

The performance given in this ETA are based on the following:

- The structural members – the components 1 and 2 shown in the figure on page 12 – to which the brackets are fixed shall be:
  - Restrained against rotation.
  - Strength class C14 or better, see section 3 of this evaluation report
  - Free from wane under the bracket.

- The actual end bearing capacity of the timber member to be used in conjunction with the bracket is checked by the designer of the structure to ensure it is not less than the bracket capacity and, if necessary, the bracket capacity reduced accordingly.

- The gap between the timber members does not exceed 3 mm.

There are no specific requirements relating to preparation of the timber members.

4 Attestation and verification of constancy of performance (AVCP)

4.1 AVCP system

According to the decision 97/638/EC of the European Commission1, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 2+.

5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark

Issued in Copenhagen on 2015-01-26 by

Thomas Bruun
Managing Director, ETA-Danmark

Annex A - Product details definitions

Table A.1 Materials specification

Bracket type	Thickness (mm)	Steel specification	Coating specification
WZU15550	3,0	S250 GD or DX51D	Z 275
WZU2002	2,0	S250 GD or DX51D	Z 275
WZU2004	4,0	S250 GD or DX51D	Z 275
WZU3002	2,0	S250 GD or DX51D	Z 275
WZU3004	4,0	S250 GD or DX51D	Z 275
WZU4002	2,0	S250 GD or DX51D	Z 275
WZU4004	4,0	S250 GD or DX51D	Z 275
WZU342 Strong	2,0	S250 GD or DX51D	Z 275
WZU422 Strong	2,0	S250 GD or DX51D	Z 275
WZU482 Strong	2,5	S250 GD or DX51D	Z 275
WHT340	3,0	S355	Fe Zn 12c
WHT440	3,0	S355	Fe Zn 12c
WHT540 Hole Ø1 7	3,0	S355	Fe Zn 12c
WHT620 Hole Ø 21	3,0	S355	Fe Zn 12c
WHT740	3,0	S355	Fe Zn 12c
WHT540 Hole Ø 22	3,0	S355	Fe Zn 12c
WHT620 Hole Ø 26	3,0	S355	Fe Zn 12c
WZUBS43 Washer	10,0	S 235	Fe Zn 12c
WZU STRONG Washer	15,0	S 235	Fe Zn 12c
WZU STRONG Washer	20,0	S 235	Fe Zn 12c
WZU STRONG Washer	20,0	S 235	Fe Zn 12c
WHTBS50 Washer WHTBS50L Washer	10,0	S 235	Fe Zn 12c
WHTBS70 Washer WHTBS70L Washer	20,0	S 235	Fe Zn 12c
WHTBS130 Washer	40,0	S 235	Fe Zn 12c

Table A.2 Range of sizes

Bracket type	Height (mm) vertical		Height (mm) horizontal		Width (mm)	
WZU15550	154	156	49	51	39	41
WZU2002	199	201	39	41	39	41
WZU2004	199	201	39	41	39	41
WZU3002	299	301	39	41	39	41
WZU3004	299	301	39	41	39	41
WZU4002	399	401	39	41	39	41
WZU4004	399	401	39	41	39	41
WZU342 Strong	339	341	179	181	39	41
WZU422 Strong	319	421	219	221	59	61
WZU482 Strong	479	481	99	101	59	61
WHT340	339	341	62	64	59	61
WHT440	439	441	62	64	64	61
WHT540 Hole Ø 17	539	541	62	64	59	61
WHT620 Hole Ø 21	619	621	62/82	64/84	79	81
WHT740	739	741	82	84	139	141
WHT540 Hole Ø 22	539	541	62	64	59	61
WHT620 Hole Ø 26	619	621	82	84	79	81
WZUBS43 Washer	-	-	39	41	42	44
WZU STRONG Washer	-	-	159	161	49	51
WZU STRONG Washer	-	-	199	201	59	61
WZU STRONG Washer	-	-	114	116	69	71
WHTBS50 Washer WHTBS50L Washer	-	-	55	57	49	51
WHTBS70 Washer WHTBS70L Washer	-	-	76	78	69	71
WHTBS130 Washer	-	-	79	81	129	131

Table A.3 Fastener specification

FASTENER	Length Min – max	Nail type
Profiled nail 4.0 mm	40 – 100 mm	Ringed shank nails according to EN 14592
GH-Nail 4.0 mm	40 – 100 mm	Ringed shank nails according to ETA-13/0523
GH-Screw 5.0 mm	35 – 70 mm	Self-tapping screws according to ETA-13/0523

In the load-carrying-capacities of the nailed or screwed connection in Annex B the capacities calculated from the formulas of Eurocode 5 are used assuming a thick steel plate when calculating the lateral fastener load-carrying-capacity. The load-carrying-capacities of the hold downs have been determined based on the use of connector nails ø 4,0 mm or screws ø 5,0 mm in accordance with the european technical approval for the nails or the screws. The characteristic withdrawal capacity of the nails according to EN 14592 has to be determined by calculation in accordance with EN 1995-1-1, paragraph 8.3.2 (head pull-through is not relevant):

$F_{ax,Rk} = f_{1,k} \times d \times t_{pen}$

Where:

$f_{1,k}$ Characteristic value of the withdrawal parameter in N/mm^2

d Nail or screw diameter in mm

t_{pen} Penetration depth of the profiled shank in mm;
(4,0 x 40 mm $t_{pen} \geq 31$ mm; 4,0 x 50 mm $t_{pen} \geq 40$ mm; 4,0 x 60 mm $t_{pen} \geq 50$ mm)

Based on tests by Versuchsanstalt für Stahl, Holz und Steine, University of Karlsruhe, the characteristic value of the withdrawal resistance for the threaded nails according to EN 14592 can be calculated as:

$f_{1,k} = 50 \times 10^{-6} \times \rho_k^2$

Where:

ρ_k Characteristic density of the timber in kg/m^3

The shape of the nail or screw directly under the head shall be in the form of a truncated cone with a diameter under the head which fits or exceeds the hole diameter.

BOLTS diameter	Correspondent Hole diameter	Bolt type
10.0 - 30.0 mm	Max. 2 mm. larger than the bolt diameter	Bolt according to EN 14592

METAL ANCHORS diameter	Correspondent Hole diameter	Anchor type
10.0 - 30.0 mm	Max. 2 mm. larger than the anchor diameter	See specification of the manufacturer

Annex B
Characteristic load-carrying capacities

Table 1: Force F_1, 1 angle bracket / connection timber-timber

type	capacity per nail or screw in the vertical flange ($F_{v,Rk}$) [kN] [2]			capacity in the horizontal flange ($F_{ax,Rk}$) [kN] [1) 2)]			steel
	4x40/ 5x40	4x50/ 5x40	4x60/ 5x50	4x40/ 5x40	4x50/ 5x40	4x60/ 5x50	bending ($F_{m,Rk}$) [kN]
WZU 15550	1,57	1,87	1,93	1,0	1,3	1,7	1,3
WZUxxx2; t=2,0 mm	1,57	1,87	1,93	0,9	1,1	1,4	0,6
WZUxxx4; t=4,0 mm	1,57	1,87	1,93	0,9	1,1	1,4	2,4

[1)] Both nail holes in the horizontal flange next to the bending line have to be nailed or screwed

[2)] Given is the minimum load-carrying capacity of 4,0 mm nails according to EN 14592 and 5,0 mm screws according to ETA-13/0523. If a wood-based panel interlayer is placed between the connector plate and the timber member, the lateral load-carrying capacity of the nail or screw, respectively, has to take into account the effect of the interlayer.

Table 2: Force F_1, 1 angle bracket / connection timber-concrete

type	capacity per nail or screw in the vertical flange ($F_{v,Rk}$) [kN] [2]			concrete	steel [3]			bolt
	4x40/ 5x40	4x50/ 5x40	4x60/ 5x50		bending ($F_{m,Rk}$) [kN]	shear ($F_{v,Rk}$) [kN]	tensile ($F_{t,Rk}$) [kN]	$k_{t\ II}$
type WZU 15550	1,57	1,87	1,93	see EN 1992	**3,5**	17,3	25,8	3,08
type WZUxxx2, t=2,0 mm	1,57	1,87	1,93		23,3	**11,6**	17,8	3,16
type WZUxxx4, t=4,0 mm	1,57	1,87	1,93		23,9	**23,1**	35,6	4,00
WZU 342	1,57	1,87	1,93		41,9	**11,6**	17,8	1,20
WZU 422	1,57	1,87	1,93		62,0	**17,3**	26,7	1,23
WZU 482	1,57	1,87	1,93		83,4	**21,7**	33,4	1,50
WHT340, WHT440, WHT540 without base plate	1,57	1,87	1,93		**42,0**	**42,0**	63,4	1
WHT340, WHT440, WHT540 Ø17, WHT540 Ø22	1,57	1,87	1,93		63,4	63,4	**63,4**	1
WHT620 without base plate	1,57	1,87	1,93		**42,0**	**42,0**	85,2	1
WHT620 Ø21, WHT620 Ø26	1,57	1,87	1,93		85,2	85,2	**85,2**	1
WHT740	1,57	1,87	1,93		158	158	**158**	1

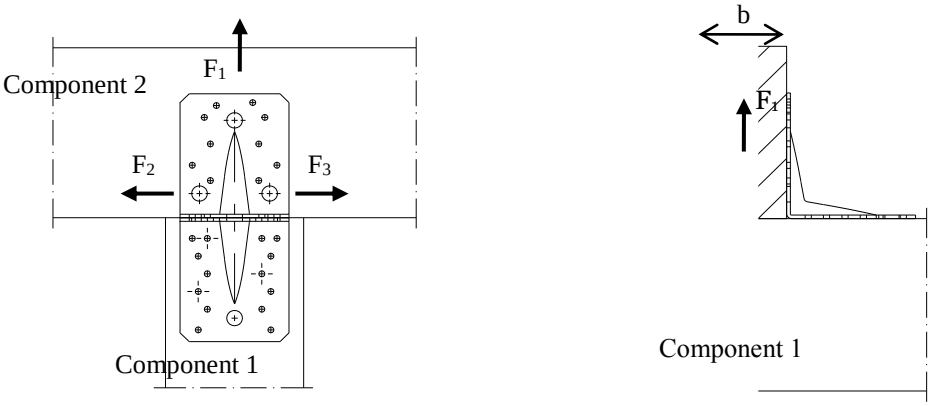
[2)] Given is the minimum load-carrying capacity of 4,0 mm nails according to EN 14592 and 5,0 mm screws according to ETA-13/0523. Alternative fasteners according to Table A.3 may be used and their load-carrying capacity calculated based on EN 1995-1-1 and ETA-13/0523. If a wood-based panel interlayer is placed between the connector plate and the timber member, the lateral load-carrying capacity of the nail or screw, respectively, has to take into account the effect of the interlayer.

[3)] base plates/washers according to the engineering drawings must be used except where otherwise specified

Table 3: Force $F_{2,3}$, 1 angle bracket (nails 4,0 x 50 mm, 4,0 x 60 mm or screws 5,0 x 40 mm, 5,0 x 50 mm)

1	
2	
2	

4) in



Act

F_1 prevented from rotation.

F_2 and F_3 Lateral force acting in the joint between the component 2 and the component 1 in the component 2 direction. The component 2 shall be prevented from rotation.

Double angle brackets per connection

The angle brackets must be placed at each side opposite to each other, symmetrically to the component axis.

Acting forces

F_1 Lifting force acting along the central axis of the joint. The load-carrying capacity is twice the load-carrying capacity of a connection with one angle bracket.

F_2 and F_3 Lateral force acting in the joint between the component 2 and component 1 in the component 2 direction. The load-carrying capacity is twice the load-carrying capacity of a connection with one angle bracket.

Wane

Wane is not allowed, the timber has to be sharp-edged in the area of the angle brackets.

Timber splitting

For the lifting force F_1 it must be checked in accordance with Eurocode 5 or a similar national Timber Code that splitting will not occur.

Connection to timber, concrete or steel with a bolt or metal anchor

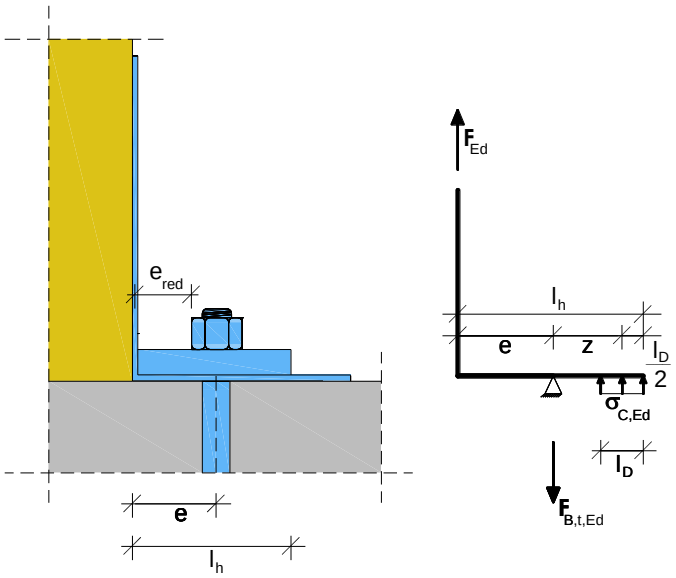
The load $F_{B,Ed}$ for the design of a bolt or metal anchor is calculated as:

$F_{B,t,Ed} = k_{t\,II} \cdot F_{Ed}$ for tensile load

$F_{B,v,Ed} = k_{t\perp} \cdot F_{Ed}$ for shear load

Where:

$F_{B,t,Ed}$	Bolt tensile load in N
$F_{B,v,Ed}$	Bolt shear load in N
k_t	Coefficient taking into account the moment arm or hole tolerance, respectively
F_{Ed}	Tensile load F_1 on vertical flap of the angle bracket or shear load $F_{2,3}$ in N



Combined forces

If the forces F_1 and F_2/F_3 act at the same time, the following inequality shall be fulfilled:

$$\left(\frac{F_{1,Ed}}{F_{1,Rd}}\right)^2 + \left(\frac{F_{2,Ed}}{F_{2,Rd}}\right)^2 + \left(\frac{F_{3,Ed}}{F_{3,Rd}}\right)^2 \leq 1$$

The forces F_2 and F_3 are forces with opposite direction. Therefore only one force F_2 or F_3 is able to act simultaneously with F_1, while the other shall be set to zero.

Rotho Blaas Angle Brackets

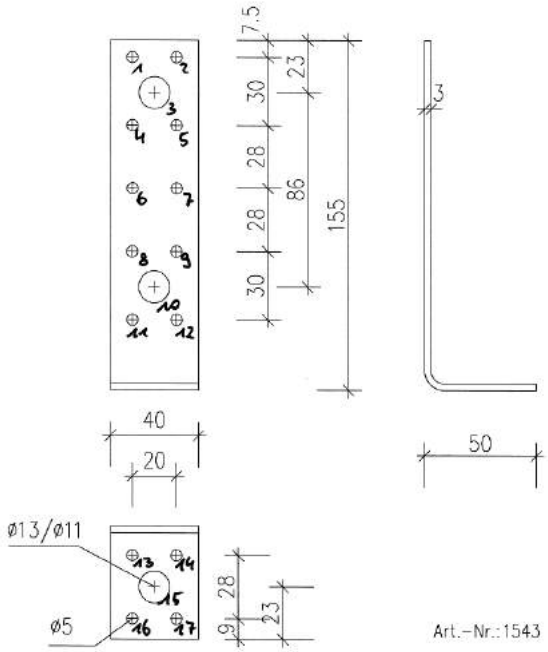


Figure B. 1 Dimensions of type WZU 15550

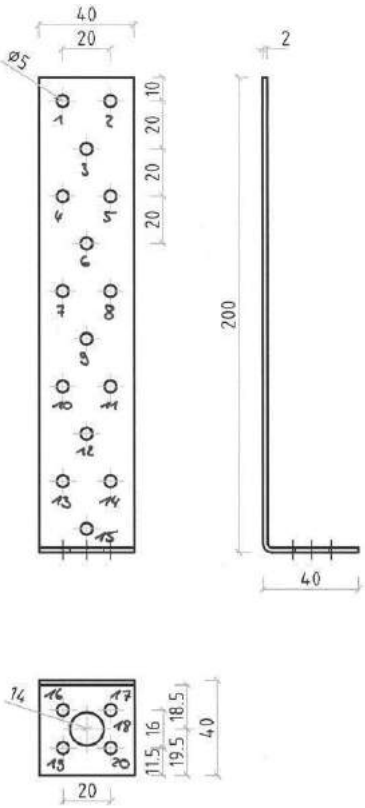


Figure B. 2 Dimensions of type WZU2002

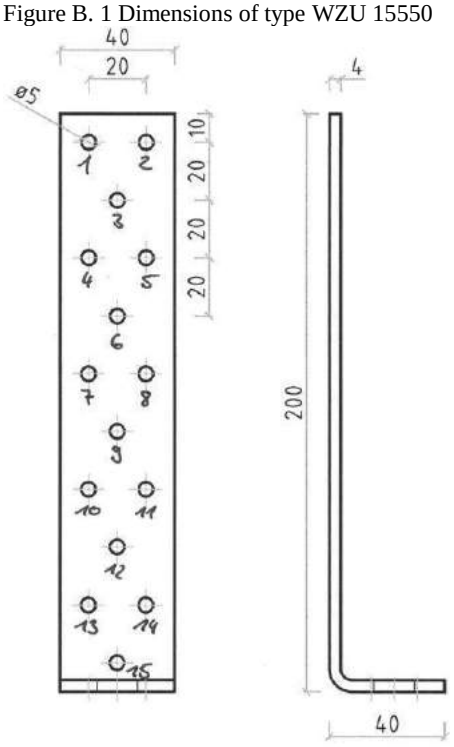
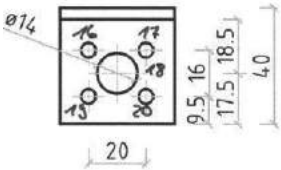


Figure B. 3 Dimensions of type WZU2004



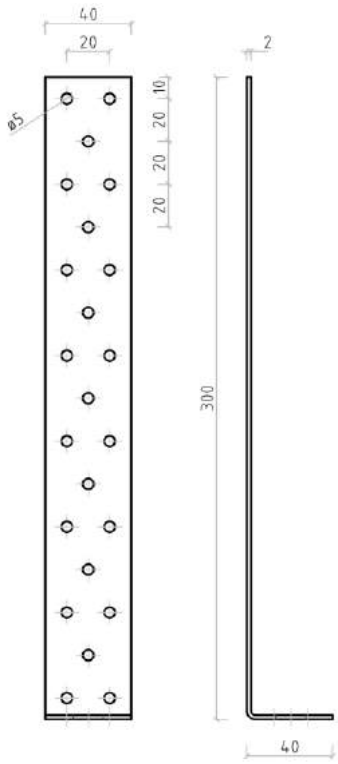


Figure B. 4 Dimensions of type WZU3002

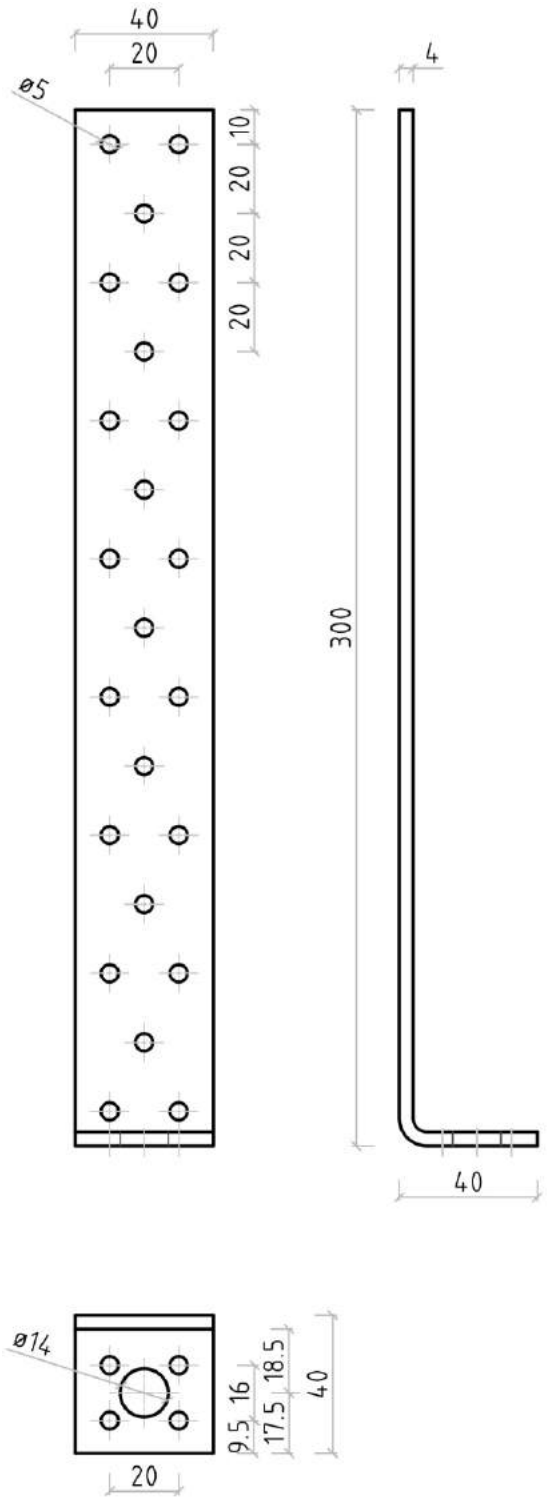


Figure B. 5 Dimensions of type WZU3004

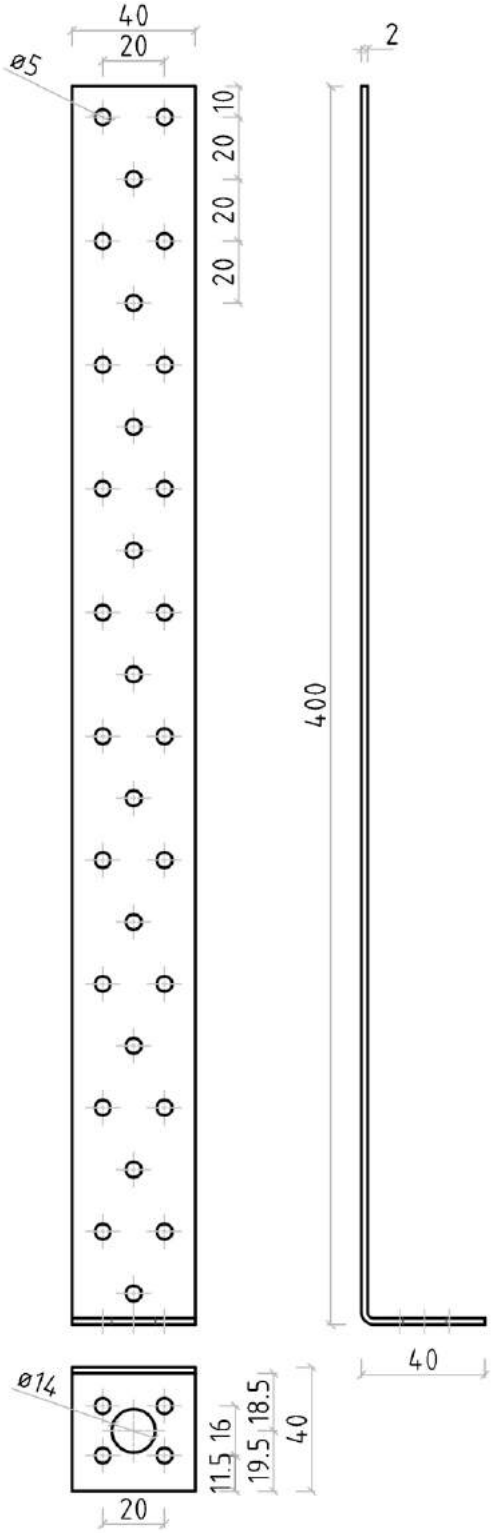


Figure B. 6 Dimensions of type WZU4002

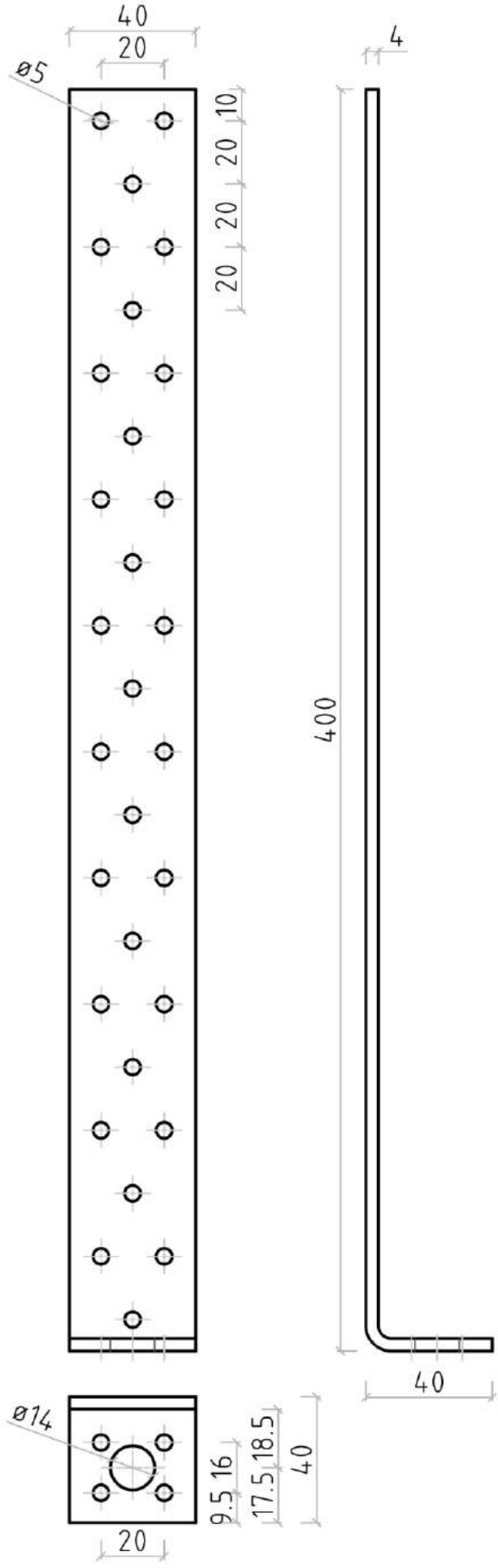


Figure B. 7 Dimensions of type WZU4004

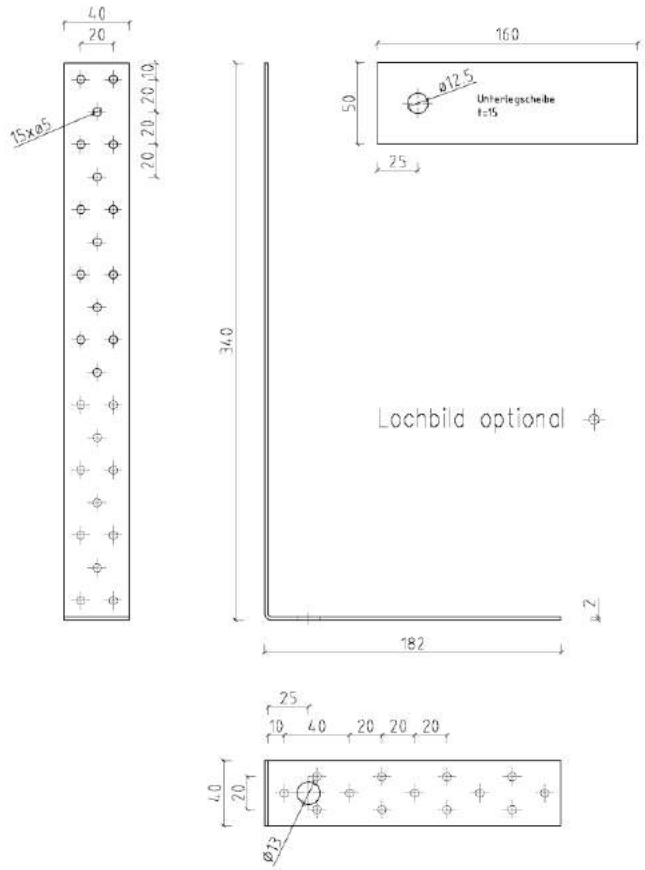


Figure B. 8 Dimensions of type WZU342

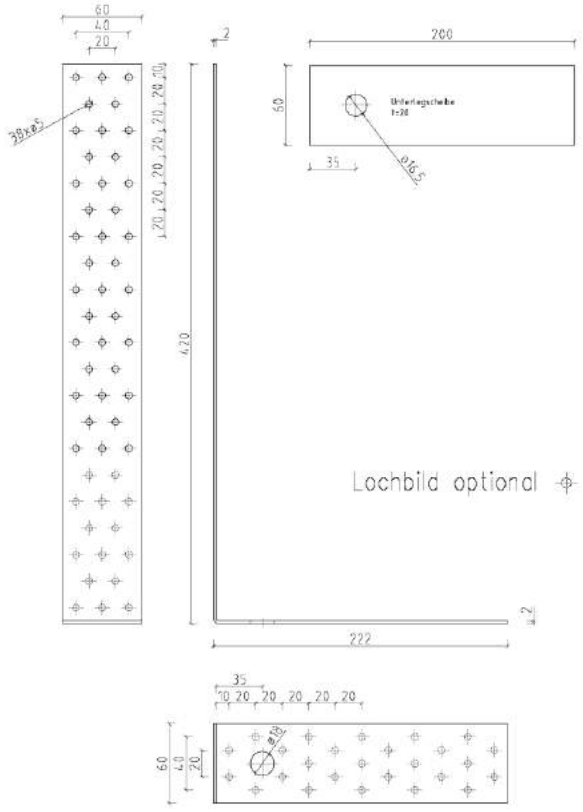


Figure B. 9 Dimensions of type WZU422

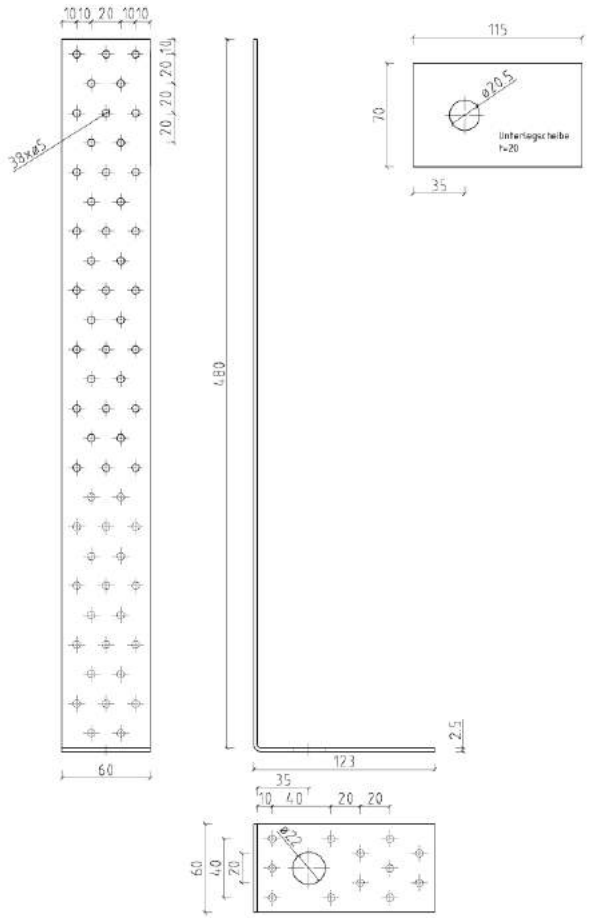


Figure B. 10 Dimensions of type WZU 482

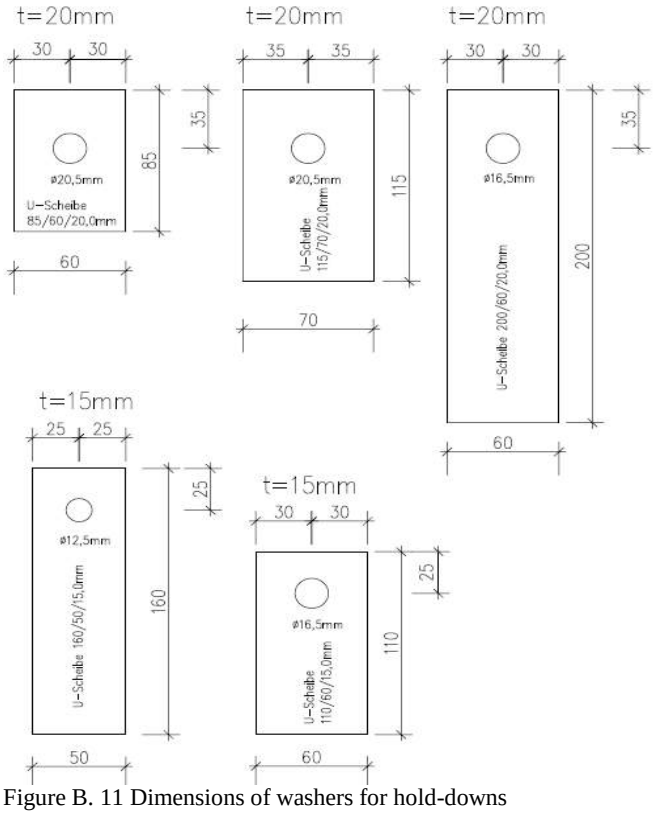


Figure B. 11 Dimensions of washers for hold-downs

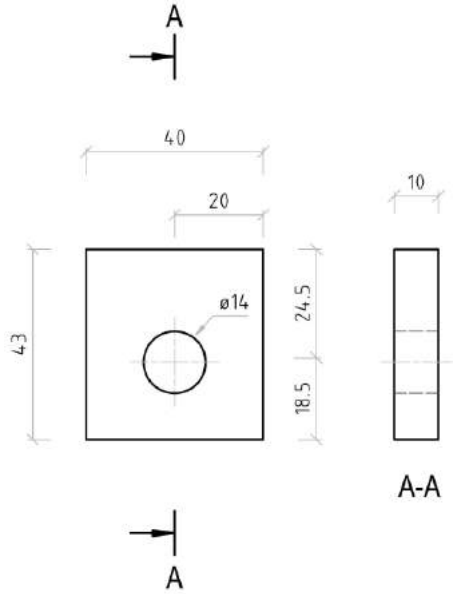
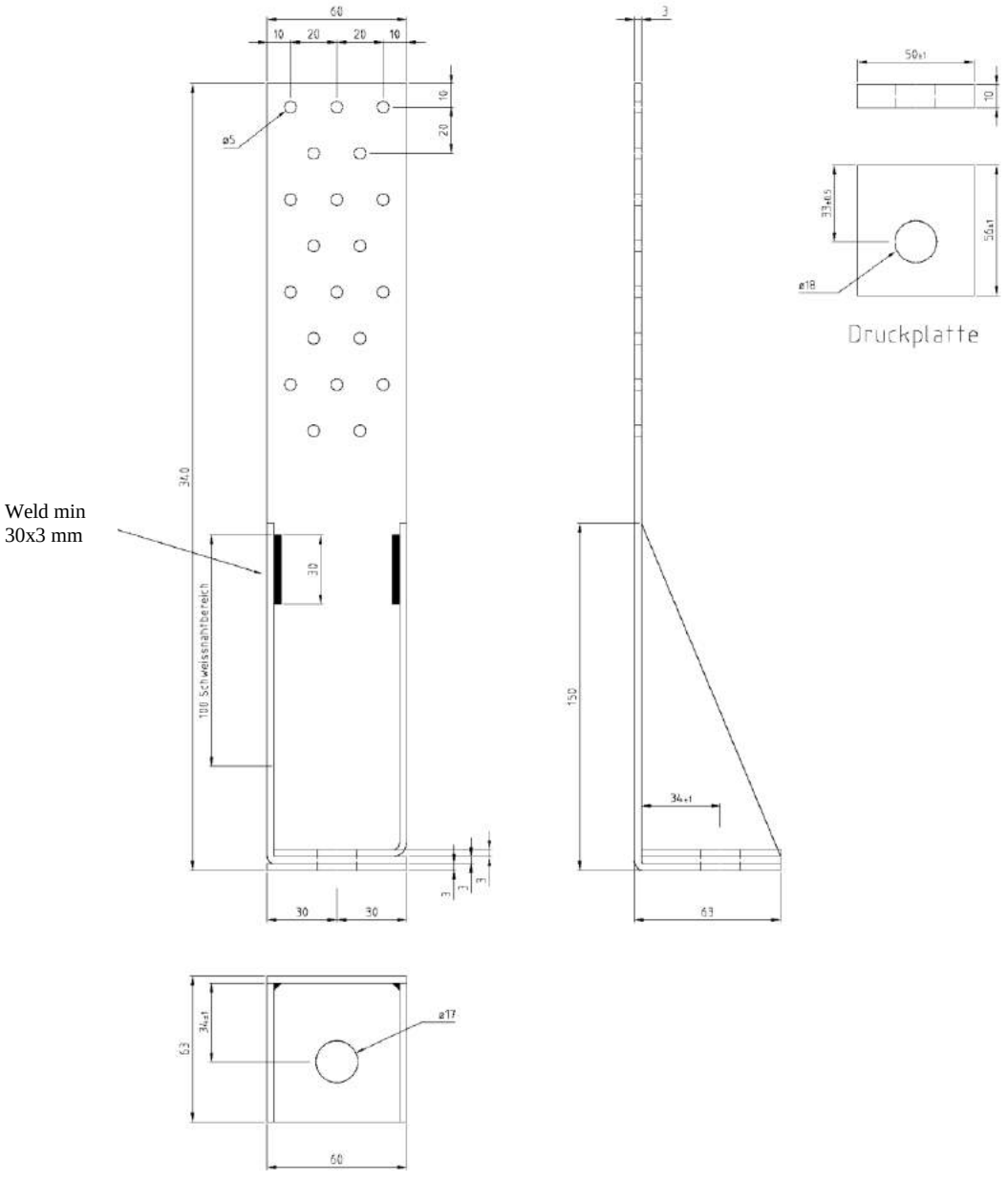


Figure B. 12 Dimensions of washer for type WZU



Weld min
30x3 mm

Figure B. 13 Dimensions of type WHT340 (drawing with washer 56x50x10)

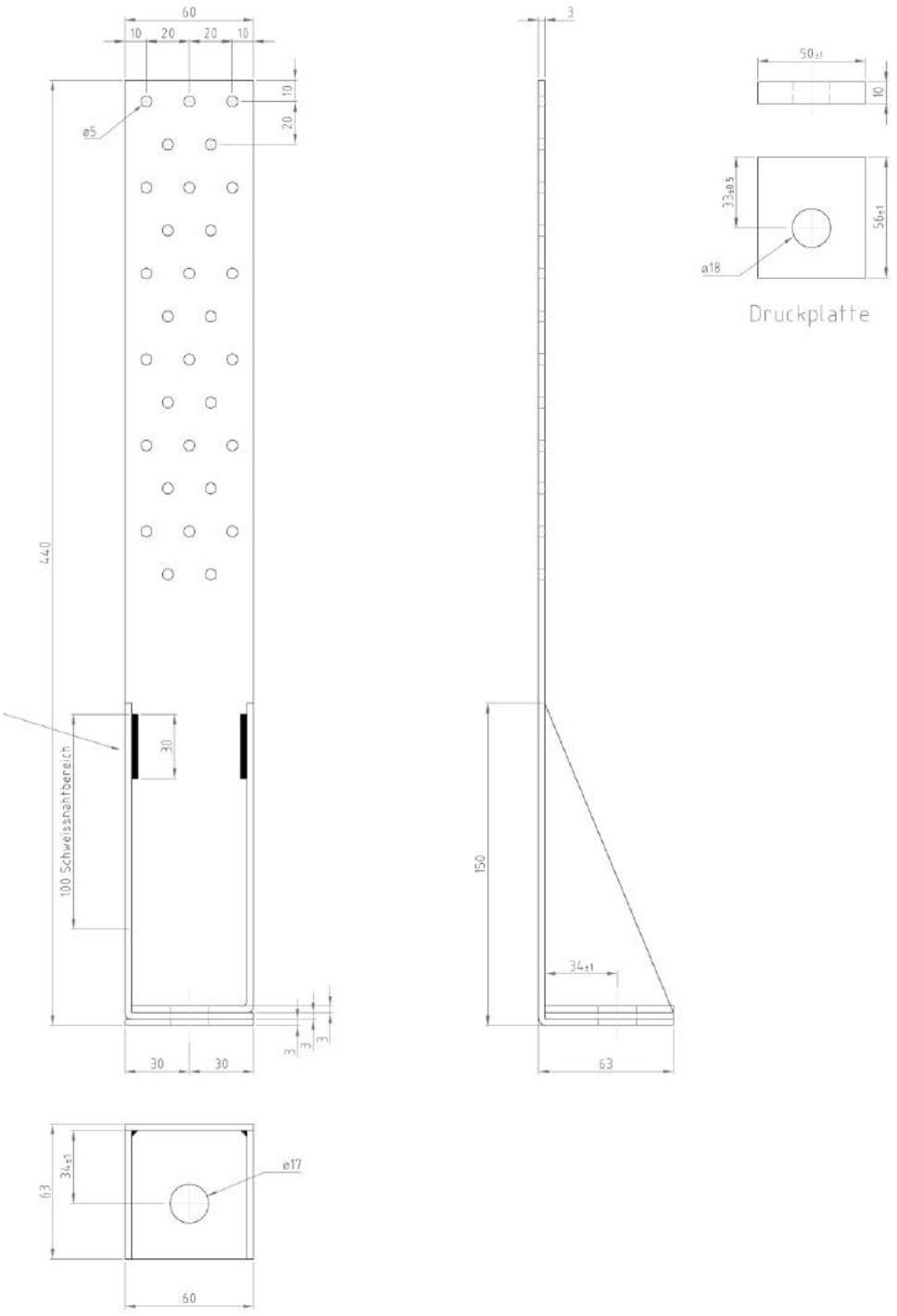


Figure B. 14 Dimensions of type WHT440 (drawing with washer 56x50x10)

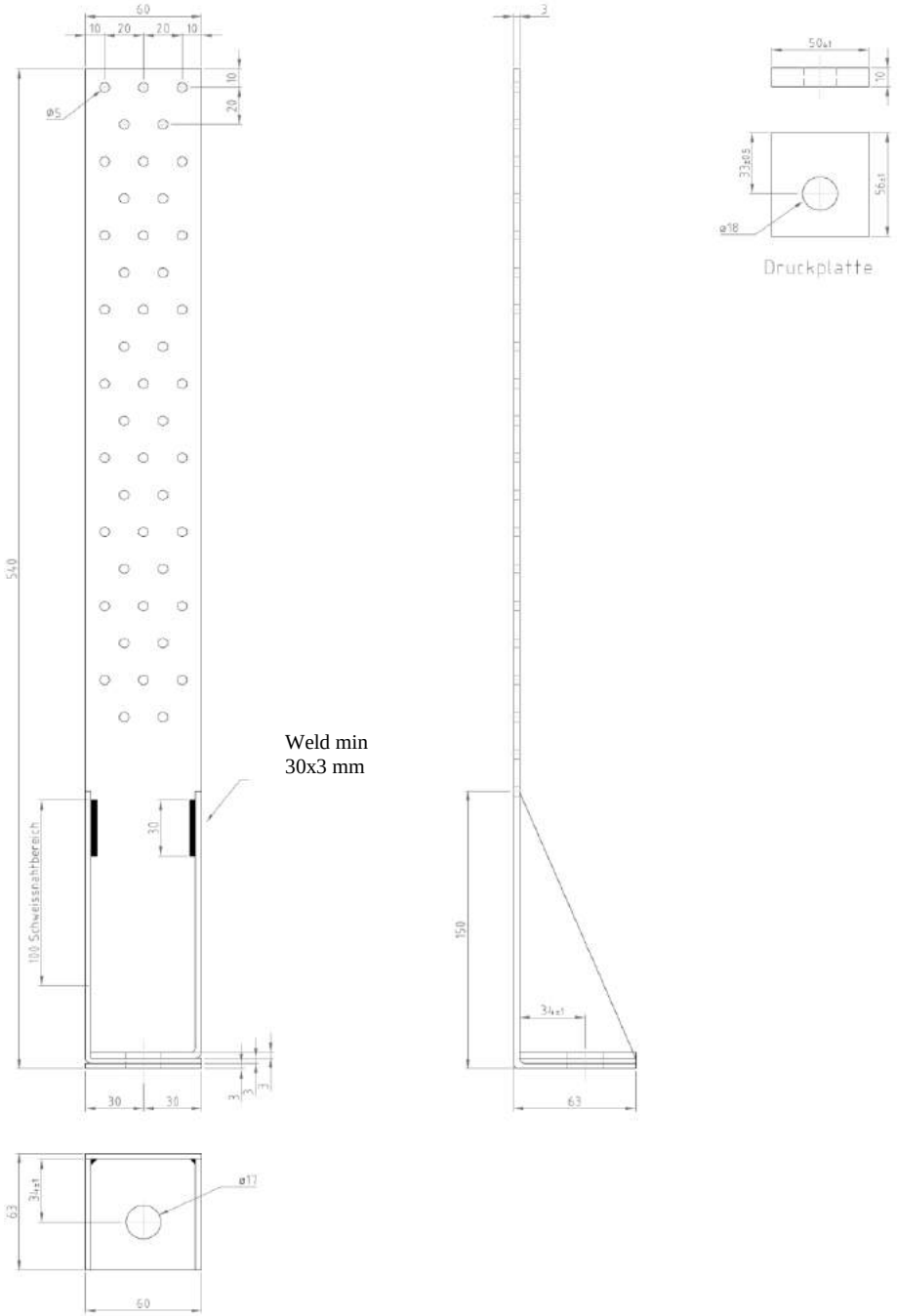


Figure B. 15 Dimensions of type WHT540 (drawing with washer 56x50x10)

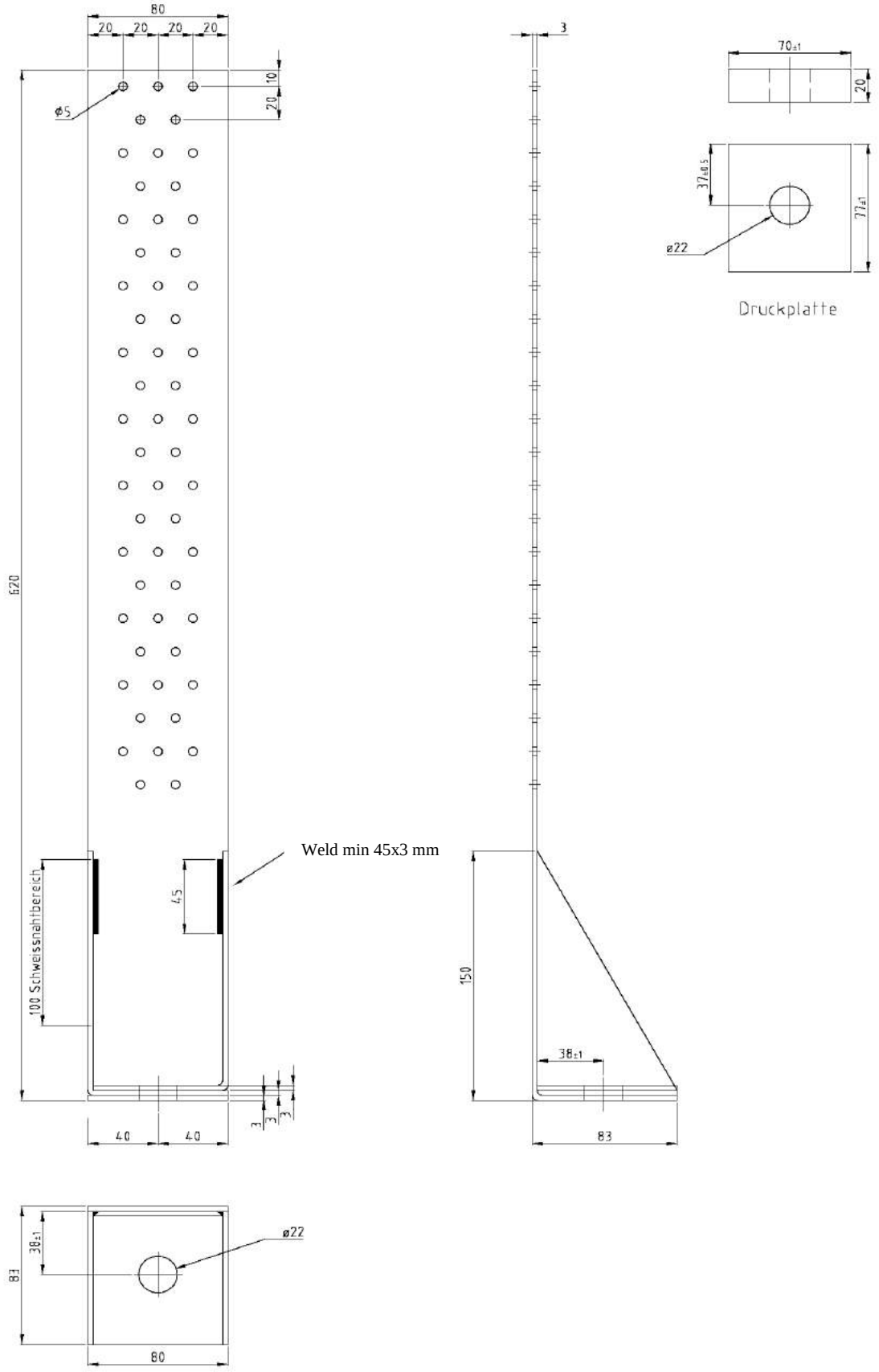


Figure B. 16 Dimensions of type WHT620 (drawing with washer 77x70x20)

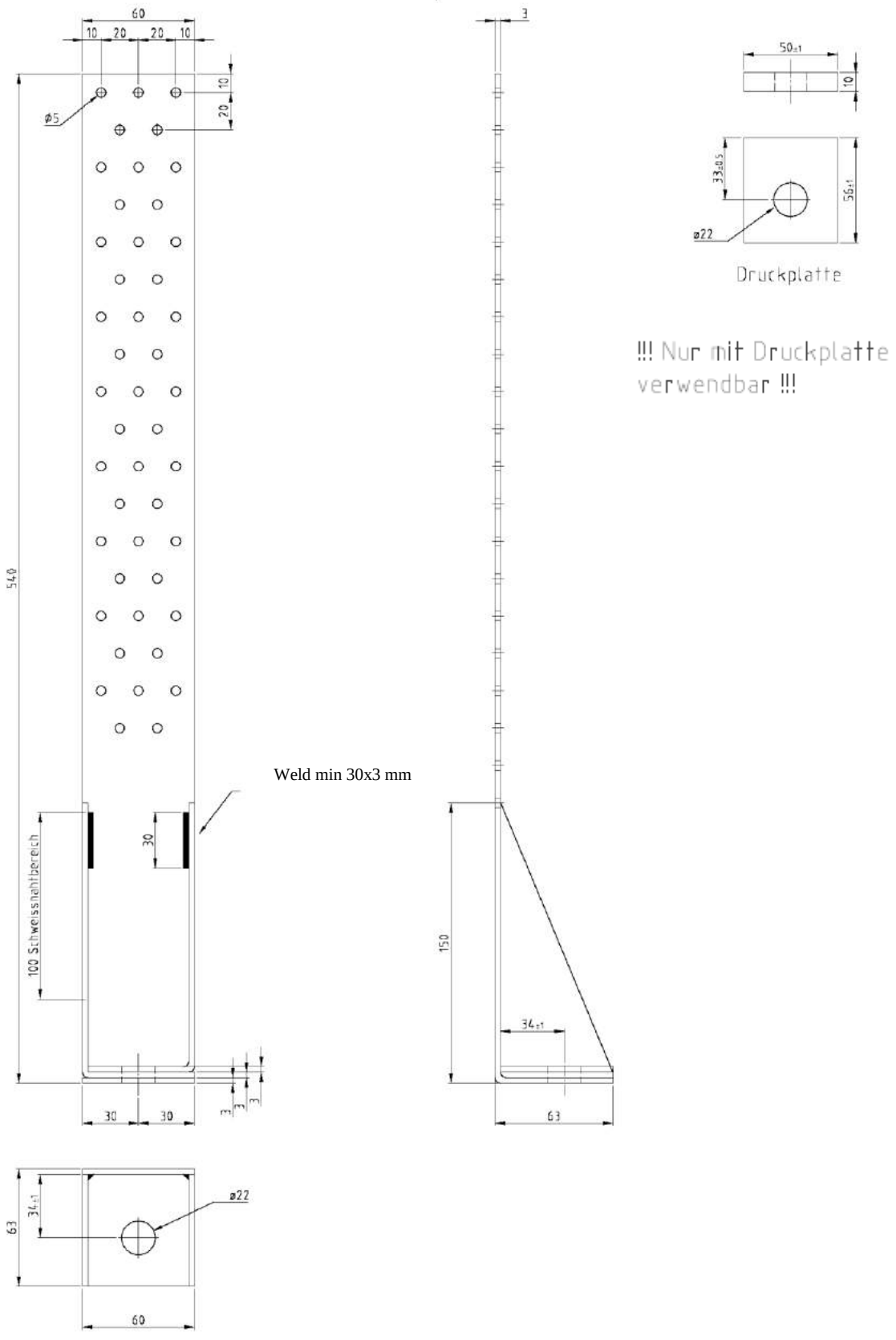


Figure B. 17 Dimensions of type WHT540 Big Hole (with washer 56x50x10)

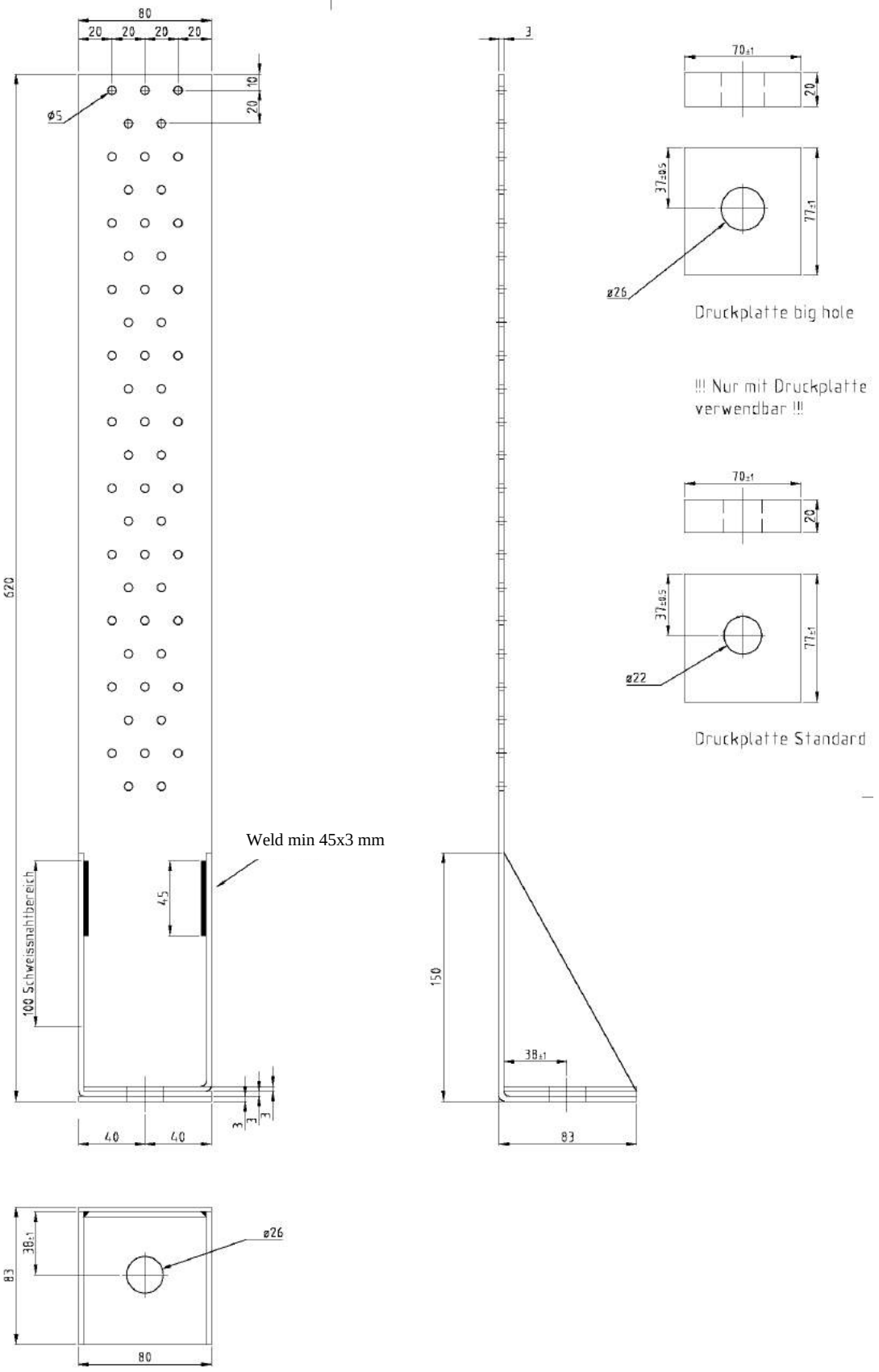


Figure B. 18 Dimensions of type WHT620 Big hole (with washer 77x70x20xØ22 or 77x70x20xØ26)

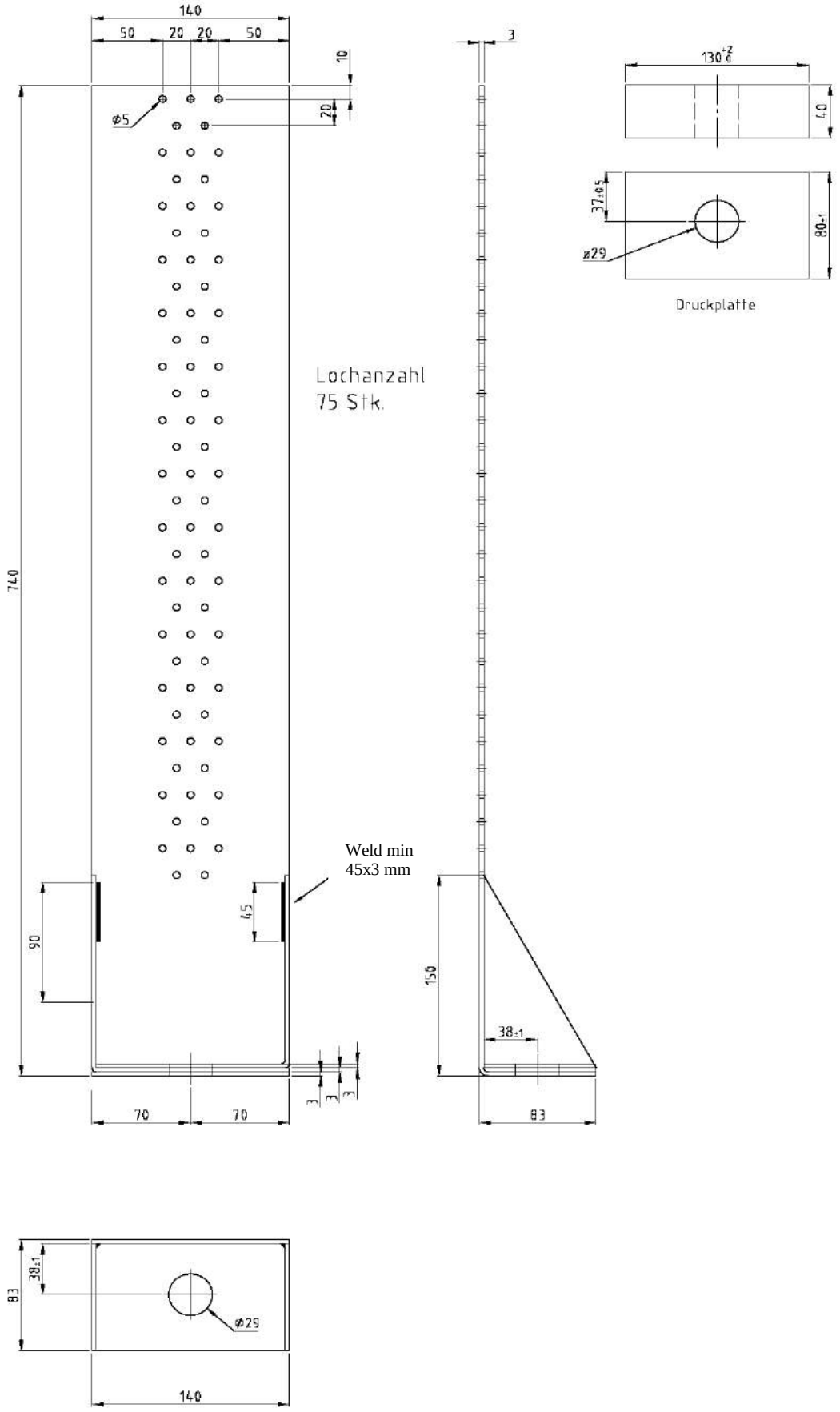


Figure B. 19 Dimensions of type WHT740 (drawing with washer 80x130x40)

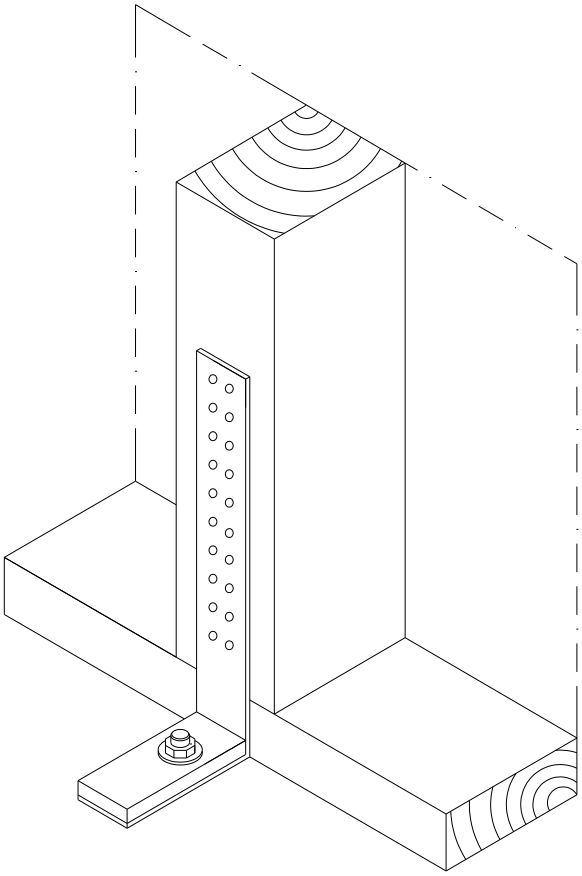


Figure B. 20 Typical installation

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Authorised and notified according to Article 29 of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011

European Technical Assessment ETA-11/0496 of 2018/11/06

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S	
Trade name of the construction product:	Rotho Blaas TITAN Angle Brackets
Product family to which the above construction product belongs:	Three-dimensional nailing plate (Angle Bracket for timber-to-timber or timber-to-concrete or steel connections)
Manufacturer:	Rotho Blaas s.r.l Via dell'Adige 2/1 IT-39040 Cortaccia (BZ) Tel. + 39 0471 818400 Fax + 39 0471 818484 Internet www.rothoblaas.com
Manufacturing plant:	Rotho Blaas s.r.l Manufacturing Plants: T1, T2, T3
This European Technical Assessment contains:	27 pages including 2 annexes which form an integral part of the document
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	Guideline for European Technical Approval (ETAG) No. 015 Three Dimensional Nailing Plates, April 2013, used as European Assessment Document (EAD).
This version replaces:	The previous ETA with the same number and issued on 2014-10-31

II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product and intended use

Technical description of the product
Rotho Blaas srl. angle brackets are one-piece non-welded, face-fixed angle brackets to be used in timber to timber or in timber to concrete or timber to steel connections. They are connected to construction members made of timber or wood-based products with threaded (ring shank) nails according to EN 14592 or ETA or screws type LBS according to ETA-11/0030 or screws type HBS+ according to ETA-11/0030 or screws type VGS according to ETA-11/0030 or bolts according to EN 14592 and to concrete or steel members with bolts or metal anchors.

The angle brackets with a steel plate thickness of up to 4 mm are made from the following materials:

- steel S355 / Z 275 or FeZn12c according to EN 10025:2005 with $R_e \geq 355$ N/mm², $R_m \leq 630$ N/mm² and $A_{80} \geq 22\%$
- steel S235 / Z 275 or FeZn12c according to EN 10025:2005 with $R_e \geq 235$ N/mm², $R_m \leq 510$ N/mm² and $A_{80} \geq 26\%$
- steel S275 / Z 275 or FeZn12c according to EN 10025:2005 with $R_e \geq 275$ N/mm², $R_m \leq 560$ N/mm² and $A_{80} \geq 23\%$
- steel DX51D / Z275 according to EN 10346:2015 with $R_e \geq 220$ N/mm², $R_m \leq 500$ N/mm² and $A_{80} \geq 22\%$
- steel S250GD / Z275 according to EN 10346:2015 with $R_e \geq 250$ N/mm², $R_m \leq 470$ N/mm² and $A_{80} \geq 19\%$
- stainless steel with $R_e \geq 355$ N/mm², $R_m \leq 630$ N/mm² and $A_{80} \geq 22\%$

Dimensions, hole positions and typical installations are shown in Annex B. Rotho Blaas srl. angle brackets are made from steel with tolerances according to EN 10143.

2 Specification of the intended use in accordance with the applicable EAD

The angle brackets are intended for use in making connections in load bearing timber structures, as a connection between a beam and a purlin, or as a connection between wall and floor elements or as wall-to-wall connection and on concrete/steel elements, where requirements for mechanical resistance and stability and safety in use in the sense of the Basic Works Requirements 1 and 4 of Regulation (EU) 305/2011 shall be fulfilled.

The connection may be with a single angle bracket or with an angle bracket on each side of the fastened timber member (see Annex B).

The static and kinematical behaviour of the timber members or the supports shall be as described in Annex A and B.

The wood members may be of solid timber, glued laminated timber and similar glued members, or wood-based structural members with a characteristic density from 290 kg/m³ to 420 kg/m³. The wood members may be of Laminated Veneer Lumber (LVL) with a characteristic density up to 500 kg/m³ with nails/screws
in the wide face of the LVL component. This requirement to the material of the wood members can be fulfilled by using the following materials:

- Structural solid timber according to EN 14081,
- Glulam according to EN 14080,
- Glued solid timber according to EN14080,
- LVL according to EN 14374 or ETA,
- Parallam PSL,
- Intrallam LSL,
- Cross laminated timber according to ETA,
- Plywood according to EN 636 or ETA.

Annex B states the load-carrying capacities of the angle bracket connections for a characteristic density of 350 kg/m³. For timber or wood based material with a lower or higher characteristic density than 350 kg/m³ the load-carrying capacities shall be converted by the factor k_{dens}:

In load case F_1 :

$$k_{dens} = \left(\frac{\rho_k}{350}\right)^{0,5} \text{ for } 290 \text{ kg/m}^3 \leq \rho_k \leq 350 \text{ kg/m}^3$$

$$k_{dens} = \left(\frac{\rho_k}{350}\right)^{0,5} \text{ for } 350 \text{ kg/m}^3 \leq \rho_k \leq 420 \text{ kg/m}^3$$

$$k_{dens} = \left(\frac{\rho_k}{350}\right)^{0,5} \text{ for LVL with } \rho_k \leq 500 \text{ kg/m}^3$$

In load case $F_{2/3}$ and $F_{4/5}$:

$$k_{dens} = \left(\frac{\rho_k}{350}\right)^{2} \text{ for } 290 \text{ kg/m}^3 \leq \rho_k \leq 350 \text{ kg/m}^3$$

$$k_{dens} = \left(\frac{\rho_k}{350}\right)^{0,5} \text{ for } 350 \text{ kg/m}^3 \leq \rho_k \leq 420 \text{ kg/m}^3$$

$$k_{dens} = \left(\frac{\rho_k}{350}\right)^{0,5} \text{ for LVL with } \rho_k \leq 500 \text{ kg/m}^3$$

where ρ_k is the characteristic density of the timber in

kg/m^3.

If a wood-based panel interlayer with a thickness of not more than 26 mm is placed between the connector plate and the timber member, the lateral load-carrying capacity of the nail or screw, respectively, has to take into account the effect of the interlayer.

The design of the connections shall be in accordance with Eurocode 5 or a similar national Timber Code. The wood members shall have a thickness which is larger than the penetration depth of the nails into the members.
The angle brackets are primarily for use in timber structures subject to the dry, internal conditions defined by service classes 1 and 2 of Eurocode 5 and for connections subject to static or quasi-static loading.

The angle brackets can also be used in outdoor timber structures, service class 3, when a corrosion protection in accordance with Eurocode 5 is applied, or when stainless steel with similar or better characteristic yield strength and ultimate strength is employed.

The angle brackets may also be used for connections between a timber member and a member of concrete or steel (TITAN TCN, TCS and TCF).

The scope of the angle brackets regarding resistance to corrosion shall be defined according to national provisions that apply at the installation site considering environmental conditions and in conjunction with the admissible service conditions according to EN 1995-1-1 and the admissible corrosivity category as described and defined in EN ISO 12944-2

The provisions made in this European Technical Assessment are based on an assumed intended working life of the angle brackets of 50 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

Characteristic	Assessment of characteristic
3.1 Mechanical resistance and stability*) (BWR1)	
Characteristic load-carrying capacity	See Annex B
Stiffness	No performance assessed
Ductility in cyclic testing	No performance assessed
3.2 Safety in case of fire (BWR2)	
Reaction to fire	The angle brackets are made from steel classified as Euroclass A1 in accordance with EN 13501-1 and Commission Delegated Regulation 2016/364
3.3 Hygiene, health and the environment (BWR3)	
Influence on air quality	No dangerous materials
3.7 Sustainable use of natural resources (BWR7)	No performance assessed
3.8 General aspects related to the performance of the product	The angle brackets have been assessed as having satisfactory durability and serviceability when used in timber structures using the timber species described in Eurocode 5 and subject to the conditions defined by service class 1 and 2
Identification	See Annex A

*) See additional information in section 3.9 – 3.12.

In addition to the specific clauses relating to dangerous substances contained in this European technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

3.9 Methods of verification

Safety principles and partial factors

The characteristic load-carrying capacities are based on the characteristic values of the nail or screw connections and the steel plates. To obtain design values the capacities have to be divided by different partial factors for the material properties, in case of timber failure in addition multiplied with the coefficient k_{mod}.

According to EN 1990 (Eurocode – Basis of design) paragraph 6.3.5 the design value of load-carrying capacity may be determined by reducing the characteristic values of the load-carrying capacity with different partial factors.

Thus, the characteristic values of the load–carrying capacity are determined also for timber failure $F_{Rk,H}$ (obtaining the embedment strength of fasteners subjected to shear or the withdrawal capacity of the most loaded fastener, respectively) as well as for steel plate failure $F_{Rk,S}$. The design value of the load–carrying capacity is the smaller value of both load–carrying capacities.

$$F_{Rd} = \min\left\{\frac{k_{mod} \cdot F_{Rk,H}}{\gamma_{M,H}}; \frac{F_{Rk,S}}{\gamma_{M,S}}\right\}$$

Therefore, for timber failure the load duration class and the service class are included. The different partial factors γ_M for steel or timber, respectively, are also correctly taken into account.

3.10 Mechanical resistance and stability

See annex B for the characteristic load-carrying capacity in the different directions F_1, F_2, F_3, F_4 and F_5

The characteristic capacities of the angle brackets are determined by calculation assisted by testing and testing as described in the EOTA Guideline 015 clause 2.4.1. They should be used for designs in accordance with Eurocode 5 or a similar national Timber Code.

No performance has been determined in relation to ductility of a joint under cyclic testing. The contribution to the performance of structures in seismic zones, therefore, has not been assessed.

Other connector nails or screws according to EN 14592 or ETA with the same or better performance than the fasteners given in table A.4 may be used.

3.11 Aspects related to the performance of the product

3.11.1 Corrosion protection in service class 1, 2 and 3.

In accordance with ETAG 015 the angle brackets are produced from:

- steel S355 / Z 275 or FeZn12c treated according to EN 10025:2005 with $R_e \geq 355$ N/mm², $R_m \leq 630$ N/mm² and $A_{80} \geq 22\%$
- steel S235 / Z 275 or FeZn12c treated according to EN 10025:2005 with $R_e \geq 235$ N/mm², $R_m \leq 510$ N/mm² and $A_{80} \geq 26\%$
- steel S275 / Z 275 or FeZn12c treated according to EN 10025 with $R_e \geq 275$ N/mm², $R_m \leq 560$ N/mm² and $A_{80} \geq 23\%$
- steel DX51D / Z275 according to EN 10346 with $R_e \geq 220$ N/mm², $R_m \leq 500$ N/mm² and $A_{80} \geq 22\%$
- steel S250GD / Z275 according to EN 10346 with $R_e \geq 250$ N/mm², $R_m \leq 470$ N/mm² and $A_{80} \geq 19\%$
- stainless steel with $R_e \geq 355$ N/mm², $R_m \leq 630$ N/mm² and $A_{80} \geq 22\%$

3.12 General aspects related to the use of the product

The angle brackets are manufactured in accordance with the provisions of this European Technical Assessment using the manufacturing processes as identified in the inspection of the plant by the notified inspection body and laid down in the technical documentation

The nailing pattern used shall be either the maximum or the minimum pattern as defined in Annex A.

The following provisions apply:

- The structural members – the components 1 and 2 shown in the figure on page 15 - to which the brackets are fixed shall be:
  - Restrained against rotation. At a load F_4/F_5, the component 2 is allowed to be restrained against rotation by the Angle brackets.
  - Strength class C14 or better, see section II.2 of this ETA
  - Free from wane under the bracket.
- The actual end bearing capacity of the timber member to be used in conjunction with the bracket is checked by the designer of the structure to ensure it is not less than the bracket capacity and, if necessary, the bracket capacity reduced accordingly.
- The minimum nail's end and edge distances according to EN 1995-1-1:2010 have to be provided for
- The soundproofing interlayer of TITAN SILENT angle brackets shall be arranged between the

horizontal flange and the timber member (component 1 as shown in the figure on page 15).

- There are no specific requirements relating to preparation of the timber members.

The execution of the connection shall be in accordance with the assessment holder's technical literature.

4 Attestation and verification of constancy of performance (AVCP)

4.1 AVCP system

According to the decision 97/638/EC of the European Commission1, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 2+.

5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking.

Issued in Copenhagen on 2018-11-06 by

Thomas Bruun
Managing Director, ETA-Danmark

Annex A
Product details definitions

Table A.1 Materials specification

Angel Bracket type	Thickness (mm)	Steel specification	Coating specification
TITAN TTN160	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TTN200	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TTN240	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TTS140	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TTS195	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TTS240	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TCN160	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TCN200	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TCN240	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TCS140	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TCS195	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TCS240	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TTF200	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TCF200	3,0	S235/S275/S355/DX51D/S250GD	FeZn12c / Z 275
TITAN TTV240	4,0	S275/S355 [1)]	FeZn12c / Z 275
TITAN Washer TCW200	12,0	S235/S275/S355	FeZn12c / Z 275
TITAN Washer TCW240	12,0	S235/S275/S355	FeZn12c / Z 275

[1)] or steel DX51D with minimum and maximum mechanical properties of S275 with thickness of 4 mm. An inspection certificate 3.1 according to EN 10204 is required to confirm these values.

Table A.2 Materials specification – Soundproofing Interlayer for TITAN SILENT

Interlayer type	Thickness (mm)
Xylofon or Xylofonplate	6,0
Aladin Stripe Soft	5,0
Aladin Stripe Extrasoft	7,0

Table A.3 Range of sizes

Angle Bracket type	Height (mm) vertical		Height (mm) horizontal		Width (mm)	
TITAN TTN160	119	121	92	94	159	161
TITAN TTN200	119	121	92	94	199	201
TITAN TTN240	119	121	92	94	239	241
TITAN TTS140	129	131	129	131	139	141
TITAN TTS195	129	131	129	131	194	196
TITAN TTS240	129	131	129	131	239	241
TITAN TCN160	119	121	102	104	159	161
TITAN TCN200	119	121	102	104	199	201
TITAN TCN240	119	121	122	124	239	241
TITAN TCS140	129	131	102	104	139	141
TITAN TCS195	129	131	102	104	194	196
TITAN TCS240	129	131	122	124	239	241
TITAN TTF200	70	72	70	72	199	201
TITAN TCF200	70	72	102	104	199	201
TITAN TTV240	119	121	92	93	239	241
TITAN Washer TCW200	-	-	71	73	189	191
TITAN Washer TCW240	-	-	73	75	229	231

Table A.4 Fastener specification

Fastener	Minimum Length	Minimum Threaded Length	Fastener type
Nail 4.0 mm	60 mm	50 mm	Ringed shank nails according to EN 14592 or ETA
Rotho Blaas screw 5.0 mm, type LBS	50 mm	46 mm	Self-tapping screws according to ETA-11/0030
Rotho Blaas screw 8.0 mm, type HBS+	80 mm	52 mm	Self-tapping screws according to ETA-11/0030
Rotho Blaas screw 11.0 mm, type VGS	150 mm	140 mm	Self-tapping screws according to ETA-11/0030
Rotho Blaas screw 11.0 mm, type VGS	200 mm	190 mm	Self-tapping screws according to ETA-11/0030

In the load-carrying-capacities of the nailed or with 5.0 mm screwed connection in Annex B the capacities calculated from the formulas of Eurocode 5 are used assuming a thick steel plate when calculating the lateral fastener load-carrying-capacity. For the connection with 8.0 mm screws a thin steel plate is assumed. The load-carrying-capacities of the angle brackets have been determined based on the use of connector nails ø 4.0 mm in accordance with EN 14592 and self-tapping screws according to ETA-11/0030. The characteristic withdrawal capacity of the nails or screws has to be determined by calculation in accordance with EN 1995-1-1:2010, paragraph 8.3.2 (head pull-through is not relevant):

$F_{ax,Rk} = f_{ax,k} \cdot d \cdot t_{pen}$ for the nails 4.0 mm

$F_{ax,Rk} = \frac{n_{ef} \cdot f_{ax,k} \cdot d \cdot \ell_{ef}}{1,2 \cdot \cos^2 \alpha + \sin^2 \alpha} \left(\frac{\rho_k}{\rho_a} \right)^{0,8}$ for the screws

where:

n_{ef} Effective number of fasteners
$f_{ax,k}$ Characteristic value of the withdrawal parameter in N/mm²
d Nail or screw diameter in mm
t_{pen} Penetration depth of the ring shank in mm
ρ_k Characteristic density of the timber in kg/m³
ρ_a Characteristic density of the timber in kg/m³ according to $f_{ax,k}$

Based on tests by Versuchsanstalt für Stahl, Holz und Steine, Karlsruhe Institute of Technology, the characteristic value of the withdrawal resistance for the threaded nails used can be calculated as:
$f_{ax,k} = 50 \cdot 10^{-6} \cdot \rho_k^2$

Based on ETA-11/0030 the characteristic value of the withdrawal resistance for the screws type HBS+ d = 8.0 mm, VGS d = 11.0 mm and LBS d = 5.0 mm is:
$f_{ax,k}$ = 11,7 N/mm² (with ρk =350 kg/m³)

The shape of the nail or screw directly under the head shall be in the form of a truncated cone with a diameter under the head which fits or exceeds the hole diameter.

Bolts diameter	Correspondent hole diameter	Bolts type
12.0 or 16.0 mm	Max. 2 mm larger than the bolt diameter	See specification of the manufacturer

Metal Anchors diameter	Correspondent Hole diameter	Anchors type
12.0 or 16.0 mm	Max. 2 mm larger than the anchor diameter	See specification of the manufacturer

Annex B
Characteristic load-carrying capacities and slip moduli

Table B.1: Force F_1, 1 angle bracket / connection timber to concrete or steel

TITAN Type	timber		steel		Bolts inner row	concrete	$K_{1,ser}$ [kN/mm]
	capacity per fastener in the vertical flange $F_{v,Rk}$ [kN] $F_{1,Rk} = n_{ef} \cdot F_{v,Rk}$ [kN]		$F_{1,Rk}$ [kN]		$k_{t,II}$	ℓ_D [mm]	
TCN200	30 screws Ø5 x 50 [1]		11,8		1,09	7,3	3,0 [3]
	-						
TCN200 + Washer TCW200	Nail Ø4 x 60	Screw Ø5 x 50	Washer S235	Washer S355	1,09	7,3	-
	1,93	2,27	45,7	69,0			
TCN240	36 screws Ø5 x 50 [1]		14,1		1,08	6,5	4,1 [3]
	-						
TCN240 + Washer TCW240	Nail Ø4 x 60	Screw Ø5 x 50	Washer S235	Washer S355	1,08	6,5	-
	1,93	2,27	69,8	105,4			
TCS 240	14 screws Ø8 x 80 [2]		16,2		1,08	6,5	5,5 [3]
	-						
TCS 240 + Washer TCW240	14 screws Ø8 x 80 [2]		75,9		1,08	6,5	11,5 [3]
	-						

[1] Number of fasteners in the vertical flange may be reduced. In this case, the load-carrying capacity for a steel-to-timber connection is $F_{1,Rk} = n_{ef} \cdot 1{,}93$ kN for nails Ø4 x 60 or $F_{1,Rk} = n_{ef} \cdot 2{,}27$ kN for screws Ø 5 x 50. Fasteners must be arranged symmetrically.
[2] Number of screws in the vertical flange may be reduced. In this case, the load-carrying capacity for a steel-to-timber connection is $F_{1,Rk} = n_{ef} \cdot 3{,}77$ kN for screws Ø 8 x 80. Screws must be arranged symmetrically.
[3] Value is only valid when using the full number of fasteners given in column "timber".

Table B.2: Force F_1, 1 angle bracket with washer / connection timber to timber

TITAN Type	timber			steel	Bolts inner row
	capacity per fastener in the vertical flange $F_{v,Rk}$ [kN] $F_{1,Rk} = n_{ef} \cdot F_{v,Rk}$ [kN]		$F_{1,Rk}$ [kN]	$F_{1,Rk}$ [kN]	$k_{t,II}$
TCN200 + Washer TCW200	Nail Ø4 x 60	Screw Ø5 x 50	13,2	49,8	1,07
	1,93	2,27			
TCN240 + Washer TCW240	Nail Ø4 x 60	Screw Ø5 x 50	17,7	63,1	1,05
	1,93	2,27			
TCS240 + Washer TCW240	Screw Ø8 x 80		17,7	63,1	1,05
	3,77				

Table B.3: Force F_1, 1 angle bracket without washer / connection timber to timber

TITAN Type	Number of fasteners		timber			
			$F_{1,Rk}$ [kN]			$K_{1,ser}$ [kN/mm]
	n_V	n_H	nails Ø4 x 60	screws Ø5 x 50	screws Ø8 x 80	Screws or nails
TTN240	36	36	7,37	16,2	-	36 screws Ø5 x 50: 11,5
TTS240	14	14	-	-	10,3	14 screws Ø8 x 80: 4,8
TTV240 full	36	30 + 5[1)]	101	101	-	Full nailing: 12,5
TTV240 partial	24	24 + 5[2)]	64,5	64,5	-	Partial nailing: 10,5

[1)] with 5 screws 11 x 200 mm (see Figure B. 22, Annex B)
[2)] with 5 screws 11 x 150 mm (see Figure B. 22, Annex B)

Table B.4: Force $F_{2/3}$, 1 angle bracket / connection timber to timber

TITAN Type	Number of fasteners		Timber			
			$F_{2/3,Rk}$ [kN]			$K_{2/3,ser}$ [kN/mm]
	number n_V	number n_H	Nails Ø4 x 60	Screws Ø5 x 50	Screws Ø8 x 80	
TTN160	24	24	19,3	24,0	-	-
TTN200	30	30	28,0	34,7	-	-
TTN240	36	36	37,9	46,7	-	-
TTN240 + Xylofonplate	36	36	24,8	22,8	-	-
TTN240 + Aladin Stripe Soft	36	36	28,9	27,5	-	-
TTN240 + Aladin Stripe Extrasoft	36	36	27,5	25,8	-	-
TTS140	8	8	-	-	10,7	-
TTS195	11	11	-	-	17,1	-
TTS240	14	14	-	-	60,0	5,6
TTS240 + Xylofonplate	14	14	-	-	12,5	-
TTS240 + Aladin Stripe Soft	14	14	-	-	14,7	-
TTS240 + Aladin Stripe Extrasoft	14	14	-	-	13,9	-
TTF200, h=9cm[1)]	30	30	35,5	42,5	-	-
TTF200, h=8cm[1)]	25	25	31,0	37,2	-	-
TTF200, h=7cm[1)]	15	15	20,9	25,1	-	-
TTF200, h=6cm[1)]	10	10	15,1	18,1	-	-
TTF200 + Xylofonplate	30	30	17,2	15,8	-	-
TTF200 + Aladin Stripe Soft	30	30	20,0	19,0	-	-
TTF200 + Aladin Stripe Extrasoft	30	30	19,0	17,9	-	-
TTV240 full	36	30 + 2[2)]	59,7	59,7	-	Full nailing: 6,6
TTV240 partial	24	24 + 2[3)]	51,5	51,5	-	Partial nailing: 4,8

[1)] h = height of purlin (see Figure Figure B. 20, Annex B)
[2)] with 2 screws 11 x 200 mm (see Figure B. 22, Annex B)
[3)] with 2 screws 11 x 150 mm (see Figure B. 22, Annex B)

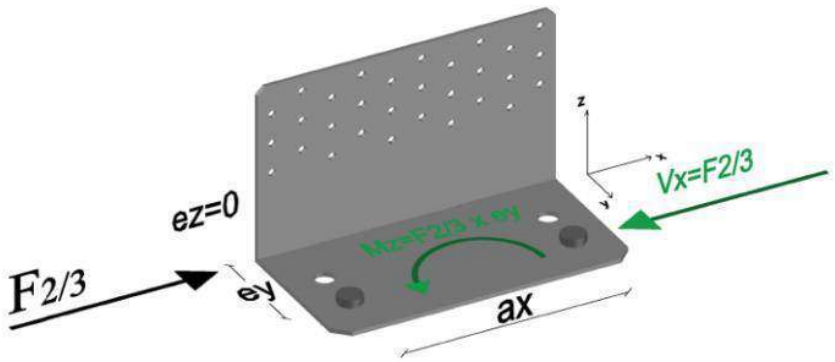
Table B.5: Force $F_{2/3}$, 1 angle bracket with washer / connection timber to timber

TITAN Type	Number of fasteners		Timber $F_{2/3,Rk}$ [kN]			Bolts inner row		a_x
	number n_V	number n_H	Nails Ø4 x 60	Screws Ø5 x 50	Screws Ø8 x 80	$k_{t,\perp}$	e_y	
TCN 200 + TCW 200	30	2	22,1	26,5	-	0,56	38,5	150
TCN 240 + TCW 240	36	2	30,3	36,3	-	0,56	39,5	162
TCS 240 + TCW 240	14	2	-	-	25,0	0,56	39,5	162

Table B.6: Force $F_{2/3}$, 1 angle bracket / connection timber to concrete or steel

TITAN Type	Number of fasteners		Timber $F_{2/3,Rk}$ [kN]			Bolts inner row					$K_{2/3,ser}$ [kN/mm]
	number n_V	number n_H	Nails Ø4 x 60	Screws Ø5 x 50	Screws Ø8 x 80	$k_{t,\perp}$	e_y	$k_{t,\parallel}$	e_z	a_x	Screws
TCN 200 + TCW 200	30	2	56,7	66,4	-	0,56	38,5	0,56	83,5	150	9,6
TCN 240 + TCW 240	36	2	70,5	82,6	-	0,56	39,5	0,52	83,5	162	10
TCS 240 + TCW 240	14	2	-	-	85,9	0,56	39,5	0,48	78,5	162	8,6

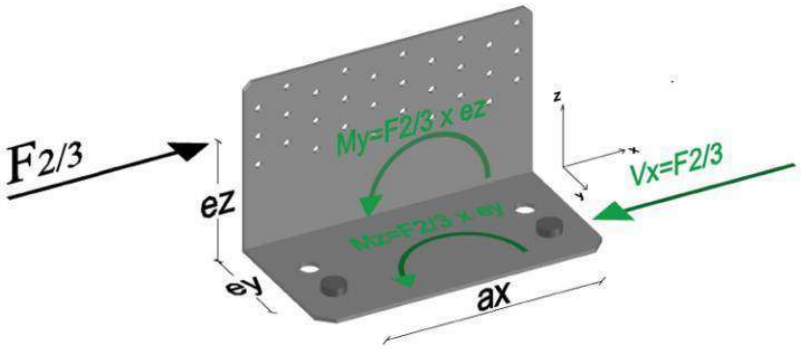
Explanation for table B.5 and B.7



$F_{2/3}$

$M_z = F_{2/3} * e_y$

Explanation for table B.6



$F_{2/3}$

$M_z = F_{2/3} * e_y$

$M_y = F_{2/3} * e_z$

Table B.7: Force $F_{2/3}$, 1 angle bracket / connection timber to concrete or steel

TITAN Type	Number of fasteners		Timber $F_{2/3,Rk}$ [kN]			Bolts inner row		Bolts outer row			$K_{2/3,ser}$ [kN/mm]
	number n_V	number n_H	Nails Ø4 x 60	Screws Ø5 x 50	Screws Ø8 x 80	$k_{t,\perp}$	e_y	$k_{t,\perp}$	e_y	a_x	
TCN160	24	2	15,1	18,1	-	0,61	38,5	0,81	70,0	110	-
TCN200	30	2	22,1	26,5	-	0,56	38,5	0,68	70,0	150	-
TCN200 (Nailing pattern 1)	10	2	6,38	7,48	-	0,56	38,5	0,68	70,0	150	-
TCN200 (Nailing pattern 2)	15	2	9,58	11,2	-	0,56	38,5	0,68	70,0	150	-
TCN200 (Nailing pattern 3)	20	2	13,7	16,0	-	0,56	38,5	0,68	70,0	150	-
TCN200 (Nailing pattern 4)	25	2	17,4	20,4	-	0,56	38,5	0,68	70,0	150	-
TCN240	36	2	30,3	36,3	-	0,56	39,5	0,70	80,5	150	-
TCN240 (Nailing pattern 1)	12	2	8,85	10,4	-	0,56	39,5	0,70	80,5	162	-
TCN240 (Nailing pattern 2)	18	2	13,3	15,6	-	0,56	39,5	0,70	80,5	162	-
TCN240 (Nailing pattern 3)	24	2	18,8	22,1	-	0,56	39,5	0,70	80,5	162	-
TCN240 (Nailing pattern 4)	30	2	24,0	28,2	-	0,56	39,5	0,70	80,5	162	-
TCS140	8	2	-	-	10,7	0,66	38,5	0,92	70,00	90	-
TCS195	11	2	-	-	17,1	0,56	38,5	0,68	70,00	150	-
TCS240	14	2	-	-	70,3	0,56	39,5	0,70	80,5	162	8,2
TCF200, h=9cm[1)]	30	2	35,5	42,5	-	0,56	38,5	0,68	70,00	150	-
TCF200, h=8cm[1)]	25	2	31,0	37,2	-	0,56	38,5	0,68	70,00	150	-
TCF200, h=7cm[1)]	15	2	20,9	25,1	-	0,56	38,5	0,68	70,00	150	-
TCF200, h=6cm[1)]	10	2	15,1	18,1	-	0,56	38,5	0,68	70,00	150	-

[1)] h = height of purlin (see Figure Figure B. 20, Annex B)

Table B.8: Force $F_{4/5}$, 2 angle brackets

TITAN Type	Number of fasteners		$F_{4/5,Rk}$ [kN]		Bolts inner row	
	number n_V	number n_H	timber	steel	$k_{t,\perp}$	$k_{t,\parallel}$
TTN240	72	72	26,7	31,6	-	-
TTS240	28	28	25,2	23,4	-	-
TCN200	60	4	25,6	14,9	0,41	0,09
TCN200 (nailing pattern 2)	30	4	22,4	20,9	0,46	0,06
TCN240	72	4	27,8	24,7	0,43	0,06
TCN240 (nailing pattern 2)	36	4	25,2	30,6	0,48	0,04
TCS240	72	4	27,4	18,8	0,39	0,08
TTF200	60	60	21,0	14,2	-	-
TCF200	60	4	23,8	12,3	0,31	0,10

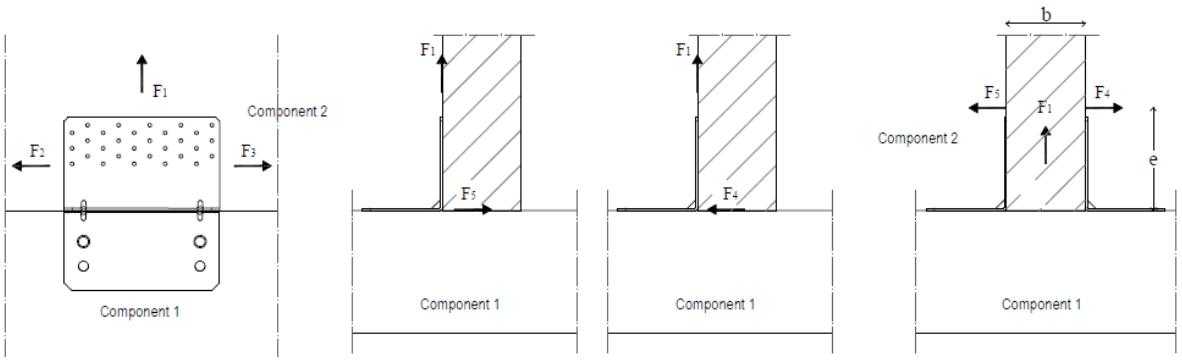
Table B.9: Force F_4, 1 angle bracket

TITAN Type	**Number of fasteners**		**$F_{4,Rk}$ [kN]**		**Bolts inner row**	
	number n_V	**number n_H**	timber	steel	$k_{t,\perp}$	$k_{t,\parallel}$
TTN240	36	36	23,8	31,1	-	-
TTS240	14	14	20,7	20,9	-	-
TCN200	30	2	20,9	22,4	0,50	-
TCN200 (nailing pattern 2)	15	2	20,7	24,3	0,50	-
TCN240	36	2	24,1	26,9	0,50	-
TCN240 (nailing pattern 2)	18	2	23,9	29,1	0,50	-
TCS240	36	2	21,1	18,1	0,50	-
TTF200	30	30	14,1	10,4	-	-
TCF200	30	2	14,6	9,48	0,50	-

Table B.10: Force F_5, 1 angle bracket

TITAN Type	**Number of fasteners**		**$F_{5,Rk}$ [kN]**		**Bolts inner row**	
	number n_V	**number n_H**	timber	steel	$k_{t,\perp}$	$k_{t,\parallel}$
TTN240	36	36	7,26	3,41	-	-
TTS240	14	14	16,8	4,24	-	-
TCN200	30	2	6,64	2,74	0,50	0,47
TCN200 (nailing pattern 2)	15	2	3,60	1,58	0,50	0,83
TCN240	36	2	8,02	3,28	0,50	0,48
TCN240 (nailing pattern 2)	18	2	4,33	1,89	0,50	0,83
TCS240	36	2	17,1	4,30	0,50	0,36
TTF200	30	30	10,8	4,69	-	-
TCF200	30	2	10,7	4,77	0,50	0,27

Definitions of forces, their directions and eccentricity
Forces – Example:



Fastener specification
Nailing patterns are given in figures B.20, B.21 and B.22. Unless otherwise stated the load-carrying capacities are applicable for connections with nails ø 4.0 mm as well as for LBS screws ø 5.0 mm. In Connections with bolts or metal anchors, there are always two bolts/metal anchors per angle bracket. Unless otherwise stated, their position is in the first row from the bend line (inward).

Double angle brackets per connection
The angle brackets must be placed at each side opposite to each other, symmetrically to the component axis.
Acting forces

F_1	Lifting force acting along the central axis of the joint.
F_2 and F_3	Lateral force acting in the joint between the component 2 and component 1 in the component 2 direction
F_4 and F_5	Lateral force acting in the component 1 direction along the central axis of the joint. The load may be applied with an eccentricity e, then a design for combined loading is required.

Single angle bracket per connection
Acting forces

F_1	Lifting force acting in the central axis of the angle bracket. The component 2 shall be prevented from rotation. If the component 2 is prevented from rotation the load-carrying capacity will be half of a connection with double angle brackets.
F_2 and F_3	Lateral force acting in the joint between the component 2 and the component 1 in the component 2 direction. The component 2 shall be prevented from rotation. If the component 2 is prevented from rotation the load-carrying capacity will be half of a connection with double angle brackets.
F_4 and F_5	Lateral force acting in the component 1 direction along the central axis of the joint. The components must be prevented from rotation. F_4 causes compression between the angle bracket and component 2; F_5 causes tension between the angle bracket and component 2.

Wane
Wane is not allowed, the timber has to be sharp-edged in the area of the angle brackets.

Timber splitting
For the lifting force F_1 it must be checked in accordance with Eurocode 5 or a similar national Timber Code that splitting will not occur.

Combined forces

If the forces F_1 and F_2/F_3 or F_4/F_5 act at the same time, the following inequality shall be fulfilled:

$$\left(\frac{F_{1,Ed}}{F_{1,Rd}}\right)+\left(\frac{F_{2,Ed}}{F_{2,Rd}}\right)+\left(\frac{F_{3,Ed}}{F_{3,Rd}}\right)+\left(\frac{F_{4,Ed}}{F_{4,Rd}}\right)+\left(\frac{F_{5,Ed}}{F_{5,Rd}}\right)\leq 1$$

The forces F_2 and F_3 or F_4 and F_5 are forces with opposite direction. Therefore only one force F_2 or F_3, and F_4 or F_5, respectively, is able to act simultaneously with F_1, while the other shall be set to zero.

If the load $F_{4/5,Ed}$ is applied with an eccentricity e, a design for combined loading **for connections with double angle brackets** is required. Here, an additional force ΔF_1 has to be added to the existing force F_1.

$$\Delta F_{1,Ed} = F_{4/5,Ed} \cdot \frac{e}{b}$$ b is the width of component 2.

Bolt design

The load $F_{B,Ed}$ for the design of the maximally loaded bolt or metal anchor is calculated as:

$$F_{B,t,Ed} = k_{t,\parallel} \cdot F_{[redacted]}$$

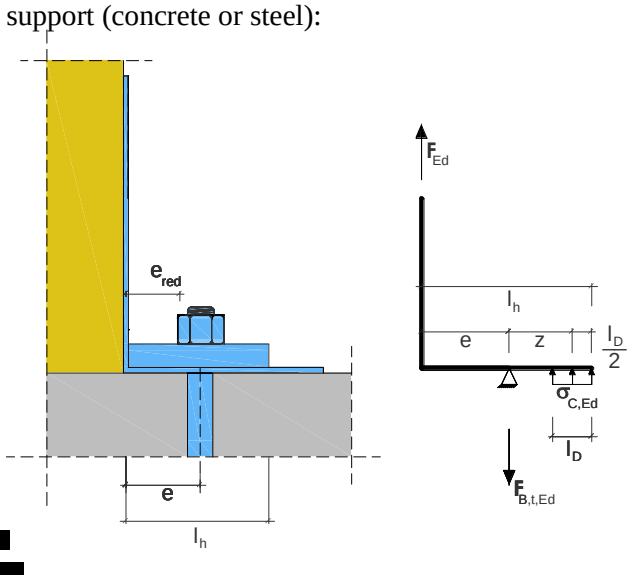
$$F_{B,v,Ed} = k_{t,\perp} \cdot F_{Ed}$$

where:

$F_{B,t,Ed}$	Resulting tensile load on the maximally loaded bolt in the group in N
$F_{B,v,Ed}$	Resulting shear load on the maximally loaded bolt in the group in N
$k_{t,\parallel}$	Coefficient taking into account the resulting axial force
$k_{t,\perp}$	Coefficient taking into account the moment arm or hole tolerance, respectively
F_{Ed}	Load on vertical flap of the angle bracket or pair of angle brackets in N

Load combinations have to be considered.

Compressive stress on the support (concrete or steel):



$$\sigma_{C,Ed} = \frac{F_{1,Ed} \cdot \left(2 \cdot k_{t,[redacted]} - 1\right)}{b \cdot \ell_{[redacted]}}$$

where:

$F_{1,Ed}$	Tensile load F_1 on vertical flap of the angle bracket in N
b	Width of the washer in mm
$\sigma_{C,Ed}$	compressive stress on the support (concrete or steel) in N/mm^2

Rotho Blaas Angle Brackets

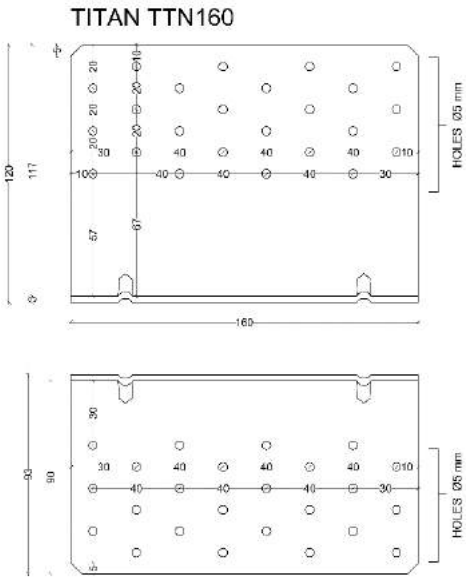


Figure B. 1
Dimensions of Angle Bracket TITAN TTN160

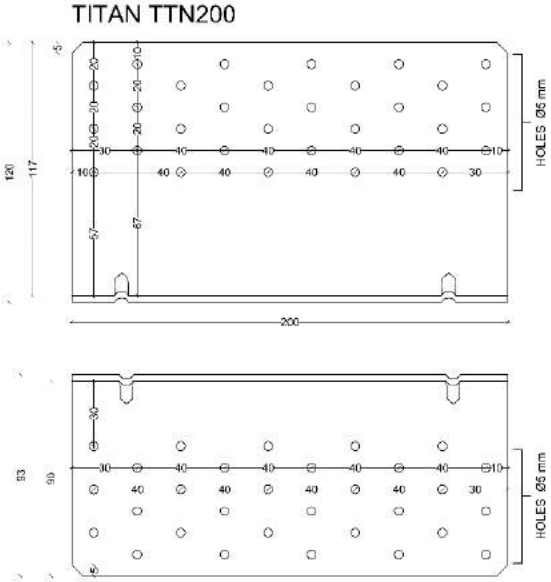


Figure B. 2
Dimensions of Angle Bracket TITAN TTN200

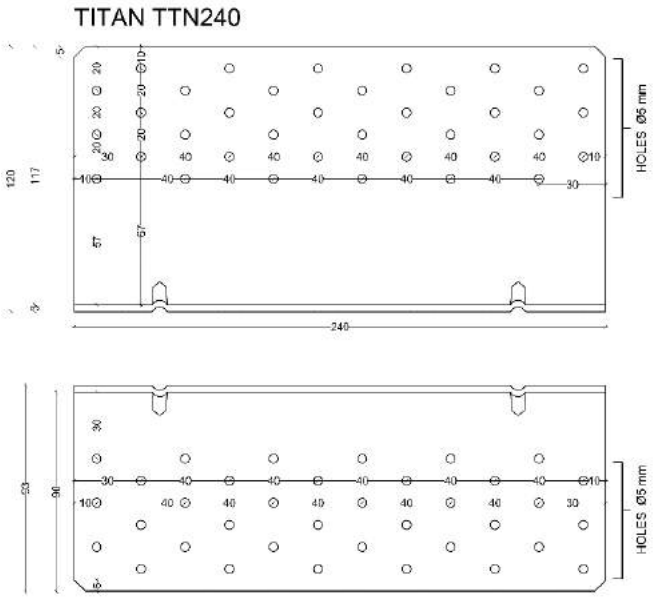


Figure B. 3
Dimensions of Angle Bracket TITAN TTN240

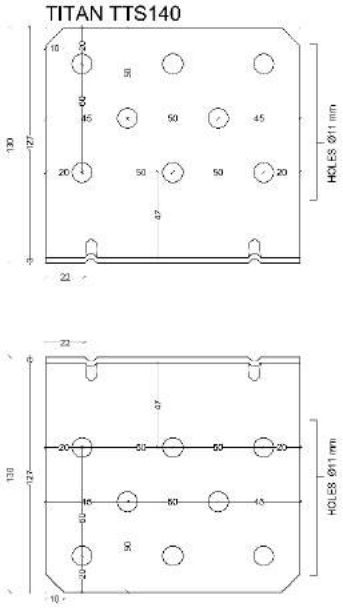


Figure B. 4
Dimensions of Angle Bracket TITAN TTS140

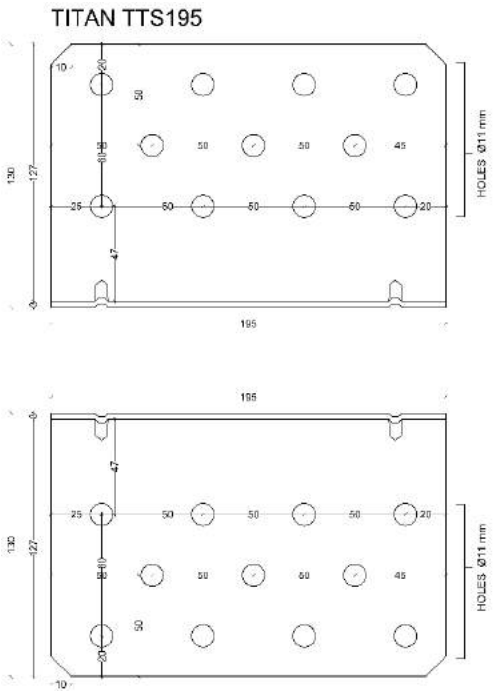


Figure B. 5
Dimensions of Angle Bracket TITAN TTS195

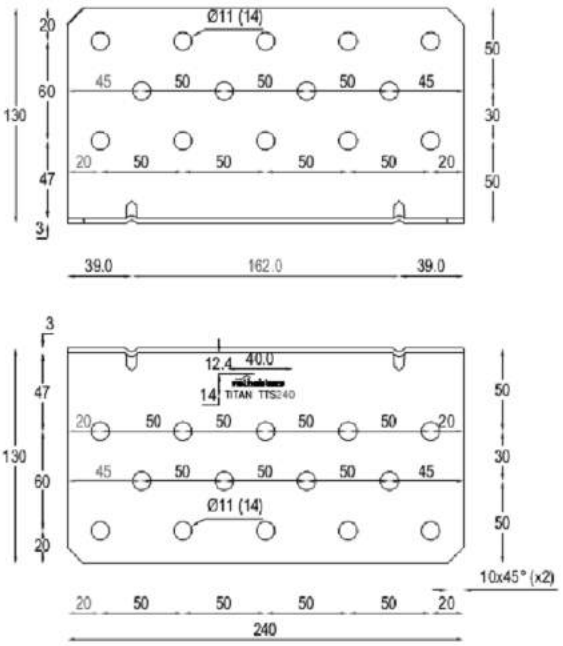


Figure B. 6
Dimensions of Angle Bracket TITAN TTS240

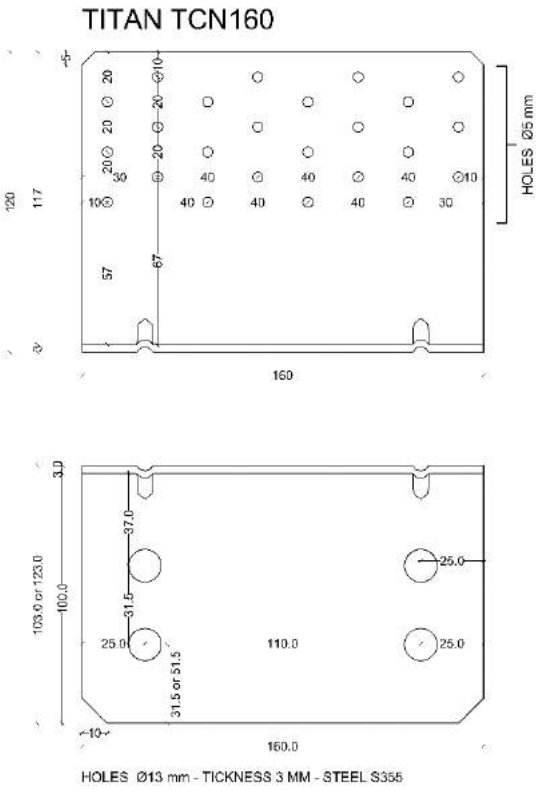


Figure B. 7
Dimensions of Angle Bracket TITAN TCN160

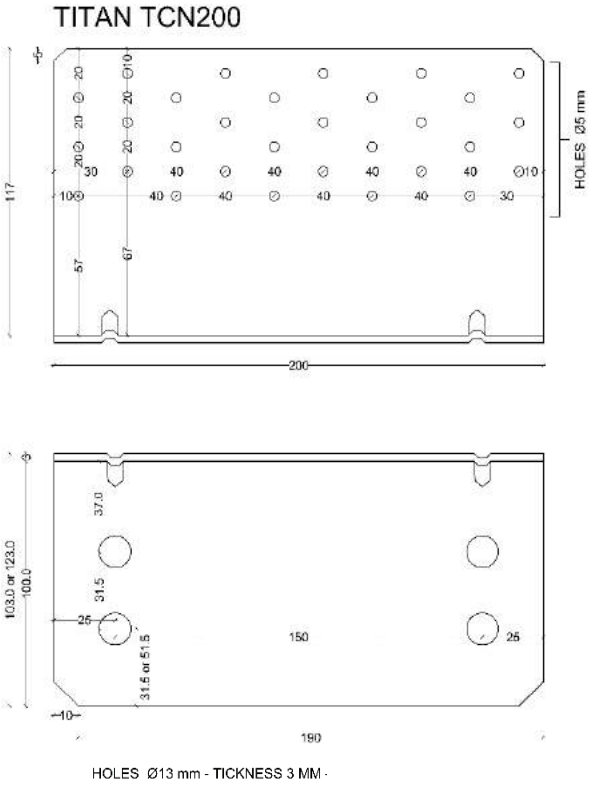


Figure B. 8
Dimensions of Angle Bracket TITAN TCN200

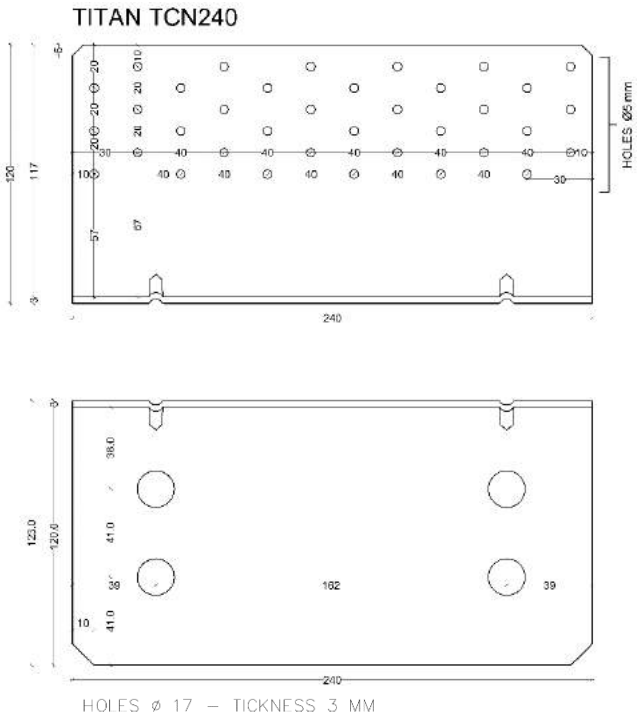


Figure B. 9
Dimensions of Angle Bracket TITAN TCN240

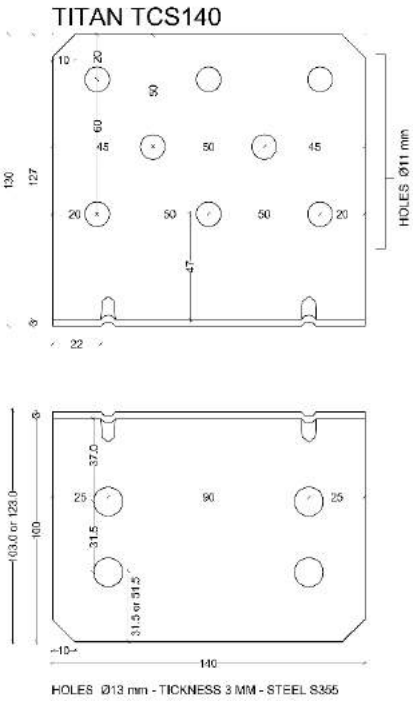


Figure B. 10
Dimensions of Angle Bracket TITAN TCS140

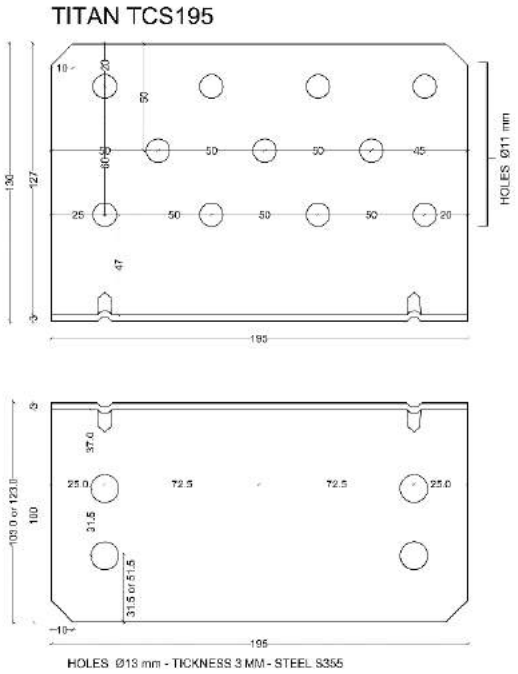


Figure B. 11
Dimensions of Angle Bracket TITAN TCS195

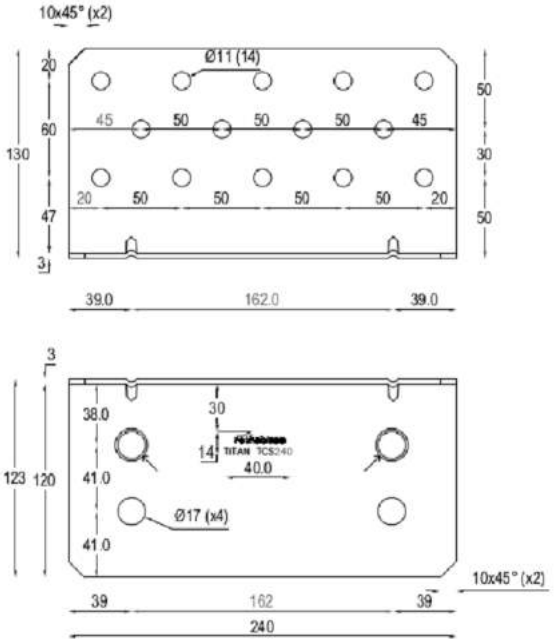


Figure B. 12
Dimensions of Angle Bracket TITAN TCS240

TITAN TTF200

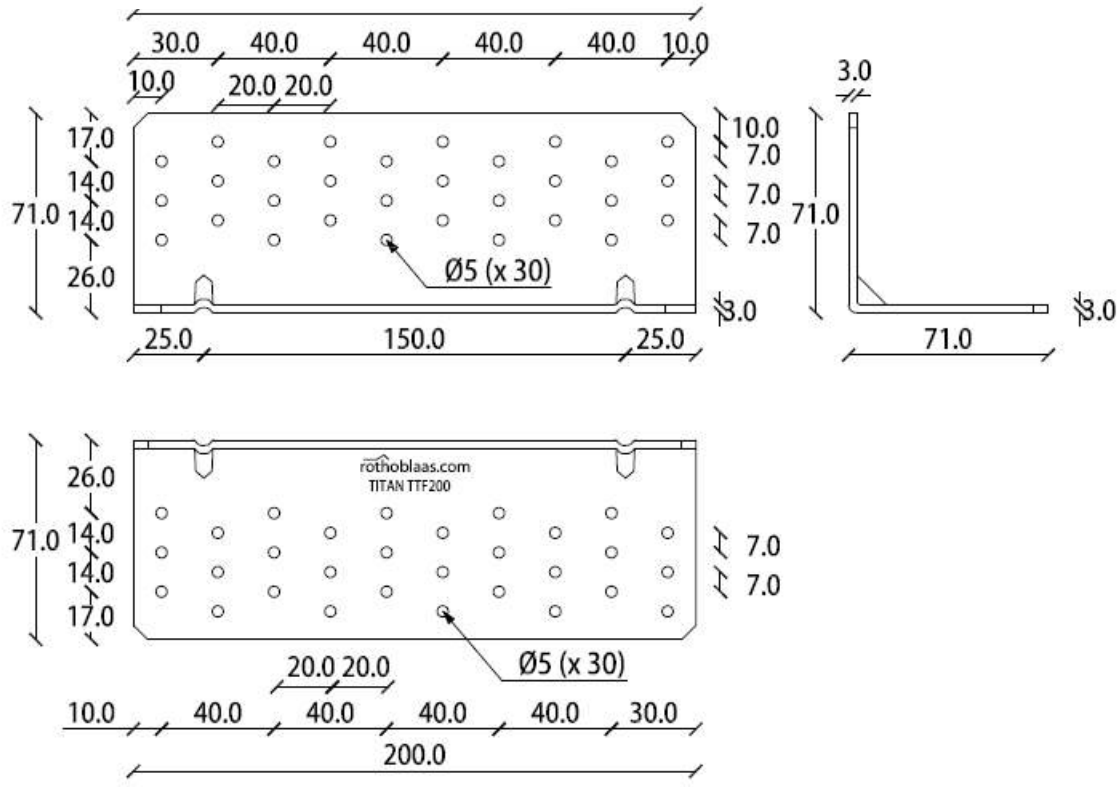


Figure B. 13 Dimensions of Angle Bracket TITAN TTF200

TITAN TCF200

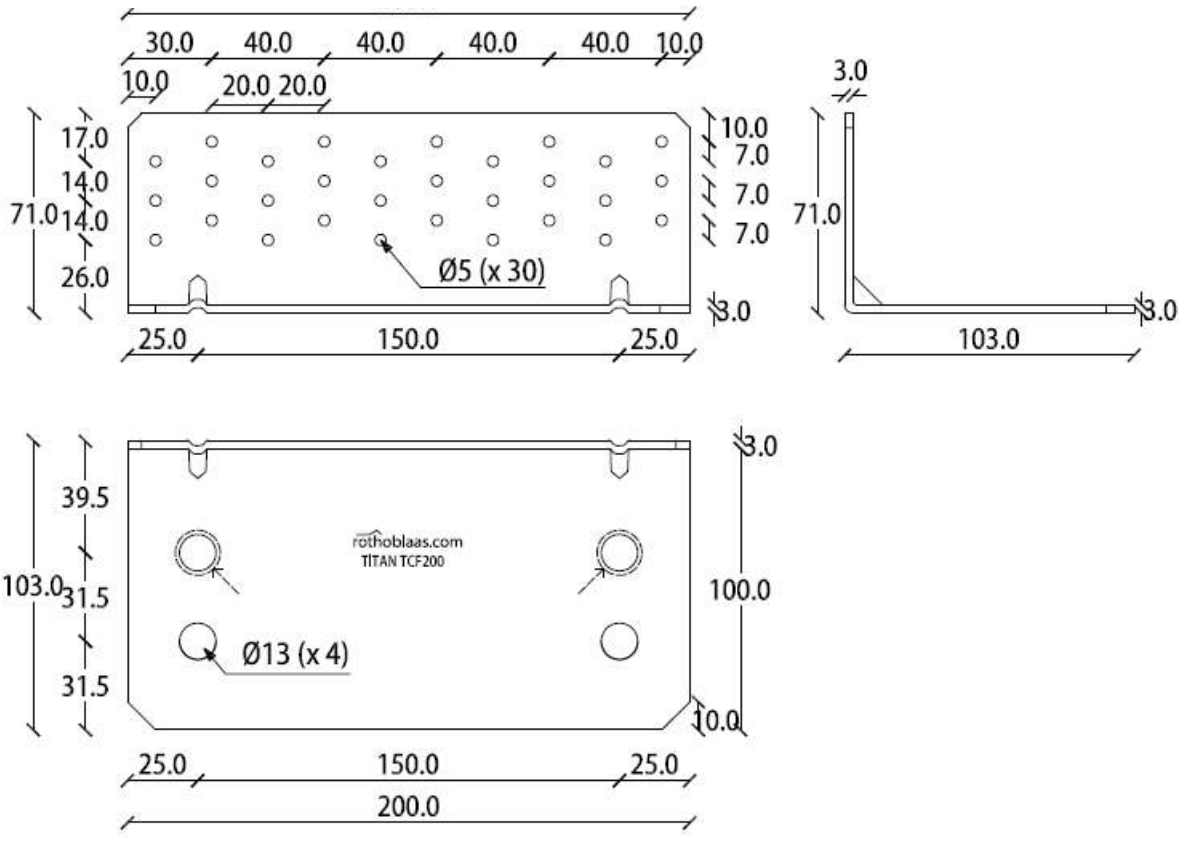


Figure B. 14 Dimensions of Angle Bracket TITAN TCF200

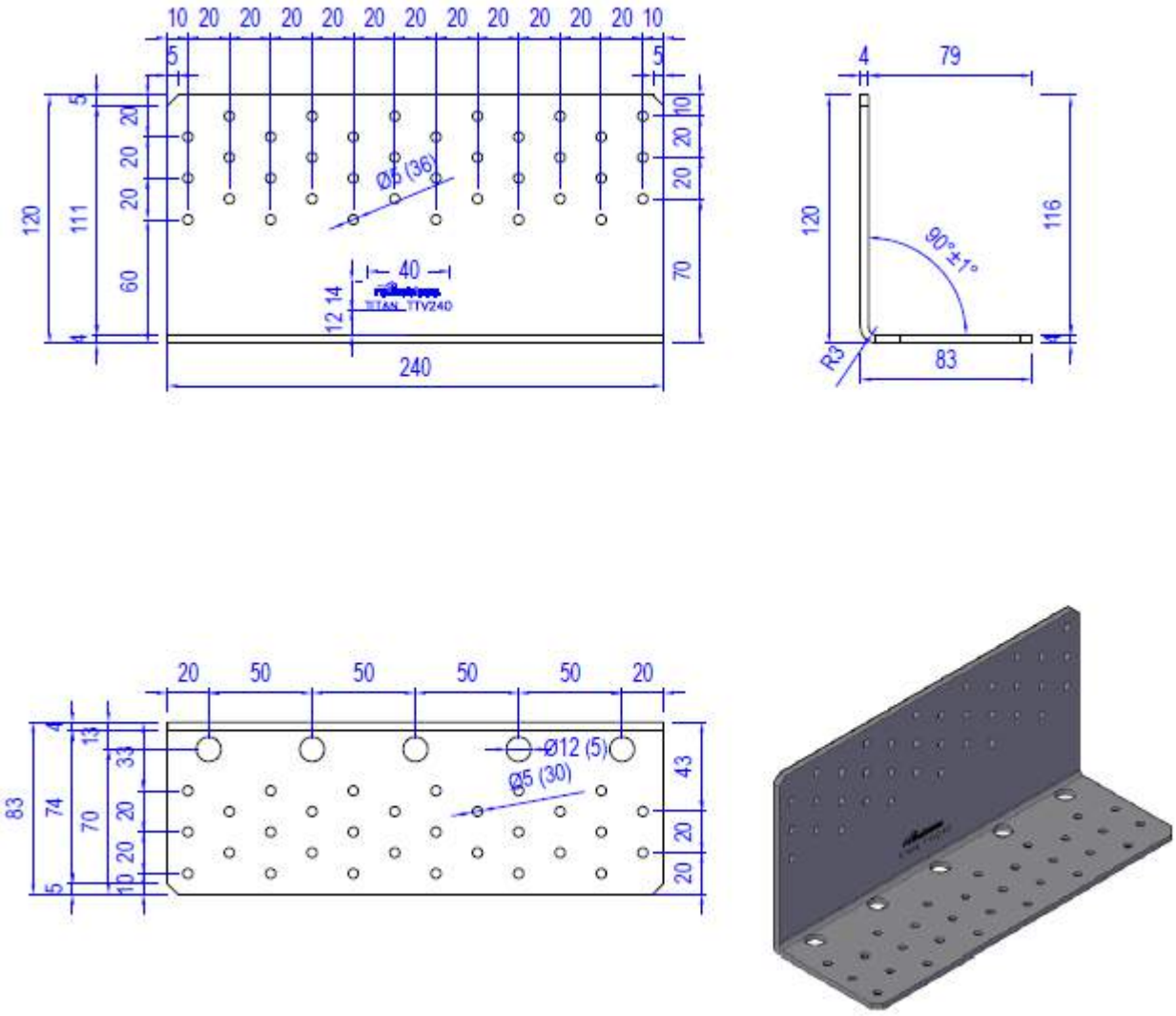


Figure B. 15 Dimensions of Angle Bracket TITAN TTV240

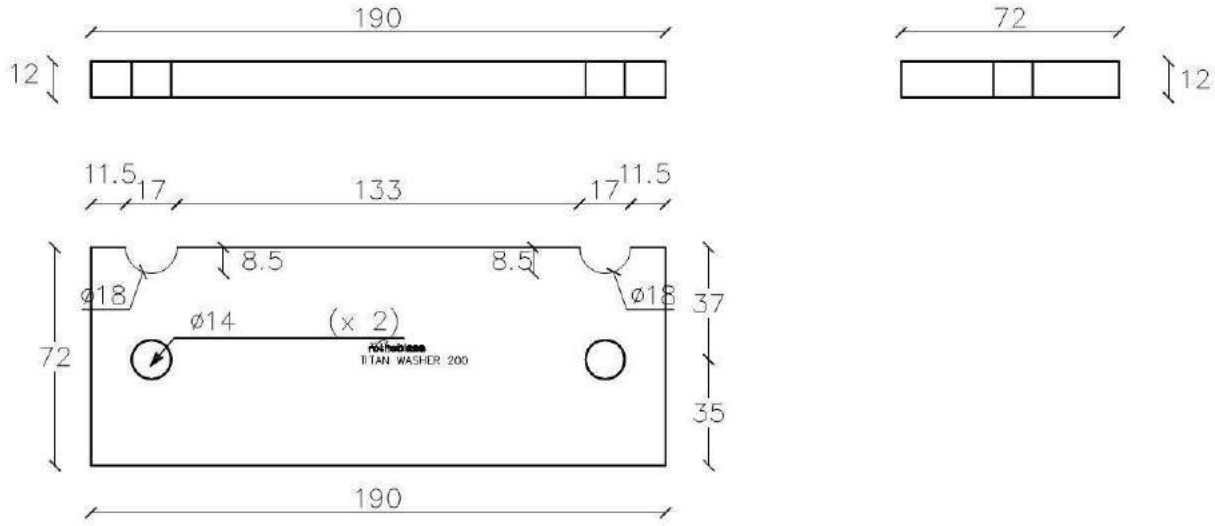


Figure B. 16 Dimensions of TITAN Washer TCW200

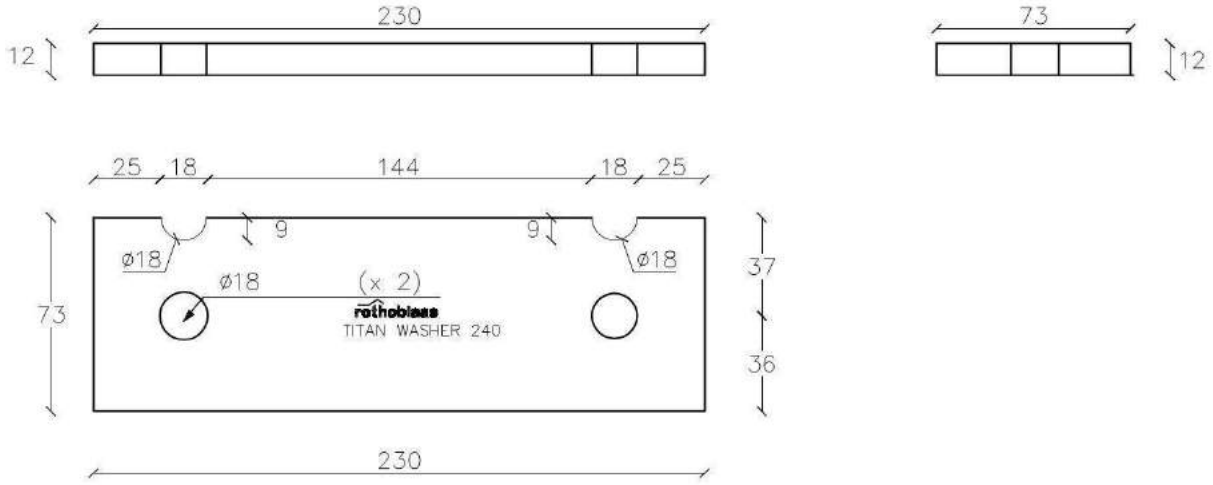


Figure B. 17 Dimensions of TITAN Washer TCW240

Figure B. 18 Typical installation on concrete

Figure B. 19 Typical installation TITAN Silent

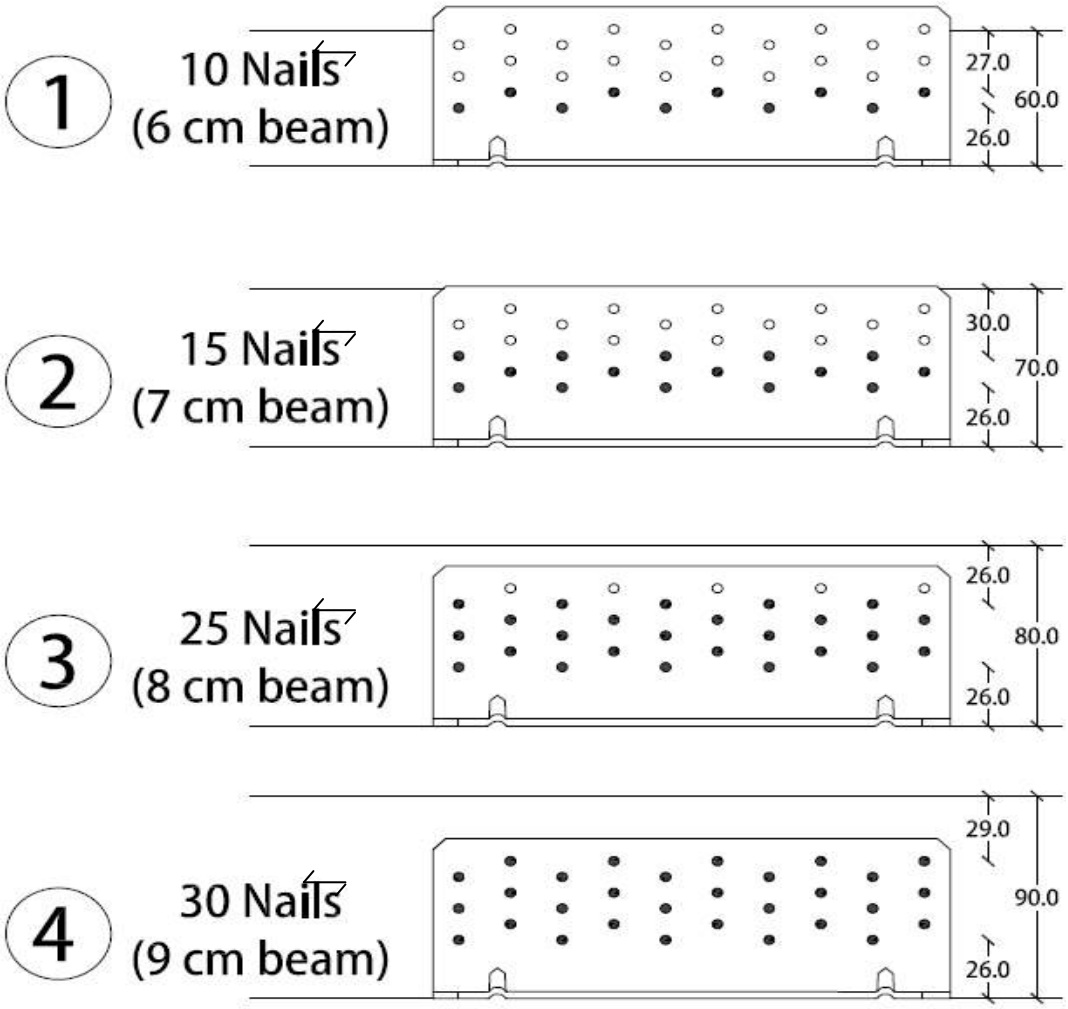
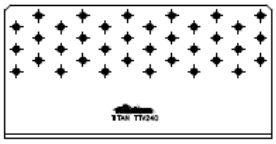


Figure B. 20 Nailing patterns for Angle Bracket TITAN TTF200 and TCF200
(for TTF200: symmetrical hole-pattern for horizontal and vertical flange)

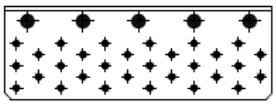
Figure B. 21 Nailing patterns for Angle Bracket TITAN TCN200 and TCN240

Nailing pattern for TTV240 - F1

FULL NAILING PATTERN
36+30 NAILS and 5 VGS SCREWS

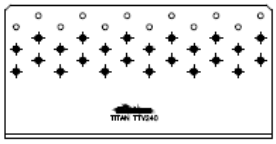


36 Anker nails Ø4X60

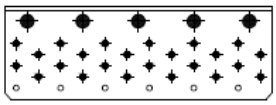


5 VGS screws Ø11X200
30 Anker nails Ø4X60

PARTIAL NAILING PATTERN
24+24 NAILS and 5 VGS SCREWS



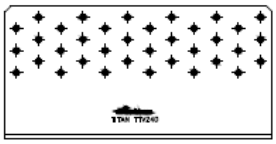
24 Anker nails Ø4X60



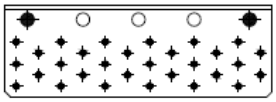
5 VGS screws Ø11X150
24 Anker nails Ø4X60

Nailing pattern for TTV240 - F2/3

FULL NAILING PATTERN
36+30 NAILS and 2 VGS SCREWS

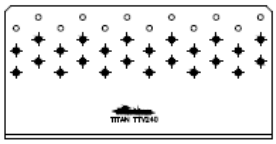


36 Anker nails Ø4X60

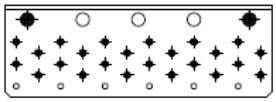


2 VGS screws Ø11X200
30 Anker nails Ø4X60

PARTIAL NAILING PATTERN
24+24 NAILS and 2 VGS SCREWS

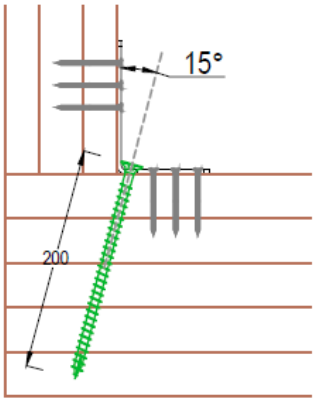


24 Anker nails Ø4X60



2 VGS screws Ø11X150
24 Anker nails Ø4X60

Insertion angle VGS screw for TTV240



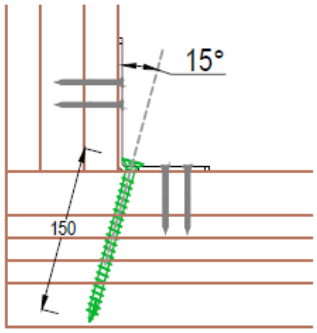


Figure B. 22 Nailing patterns for Angle Bracket TITAN TTV240

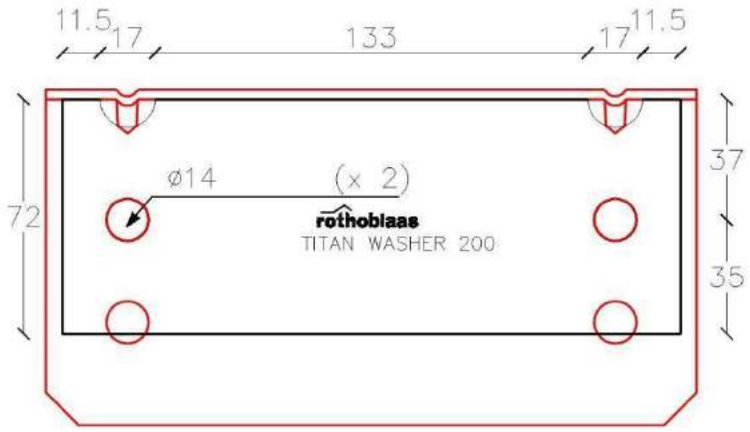


Figure B. 23 Typical installation for Angle Bracket TITAN TCN200 with Washer

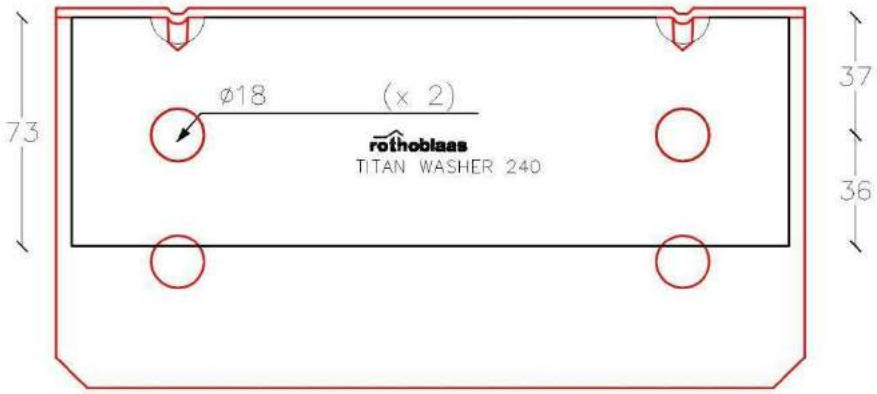


Figure B. 24 Typical installation for Angle Bracket TITAN TCN240 with Washer

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Internet www.etadanmark.dk

Authorised and notified according to Article 29 of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011

MEMBER OF EOTA

European Technical Assessment ETA-11/0030 of 2016-04-07

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S	
Trade name of the construction product:	Rotho Blaas Self-tapping screws*)
Product family to which the above construction product belongs:	Screws for use in timber constructions
Manufacturer:	Rotho Blaas s.r.l Via dell'Adige 2/1 IT-38040 Cortaccia (BZ) Tel. + 39 0471 818400 Fax + 39 0471 818484 Internet www.rothoblaas.com
Manufacturing plant:	Rotho Blaas s.r.l Manufacturing Plants: S1, S2, S3, S4, S5, S6, S7, S8, S9, S10
This European Technical Assessment contains:	47 pages including 4 annexes which form an integral part of the document
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	European Assessment document (EAD) no. EAD 130118-00-0603 "Screws for timber constructions"
This version replaces:	The previous ETA with the same number issued on 2012-11-08 and expiry on 2016-04-05

*) See section II.1 of this ETA

II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product and intended use

Technical description of the product

Rotho Blaas "HBS", "HBS+", "TBS", "KKF", "SCI", "VGS", "VGZ", "DGZ", "KKT" and "LBS" screws are self-tapping screws to be used in timber structures. "HBS" screws are also called "SCH", "GHS" "PSC", "SENK", "HTP", "SNK" or "HTS" screws, "HBS+" screws are also called "GHS+", "KEGEL", "KGL" or "HTK" screws, "KKF" screws are also called „GHKF", "KEGEL410", "KGA" or "HTK4" screws and "TBS" screws are also called "GHSK", "TELLER", "TLL" or "HTT" screws, "VGS" screws are also called "GWS" screws, "VGZ" screws are also called "GWZ" screws, "KKT" screws are also called "MNA", "MNG" or "MNB" screws. Rotho Blaas "HBS", "HBS+", "TBS", "KKF" and "SCI" screws shall be threaded over a part of the length. Rotho Blaas "VGS", "VGZ" and "LBS" screws shall be threaded over the full length. Rotho Blaas "DGZ" and "KKT" screws shall have two threaded parts over the length. The screws shall be produced from carbon steel wire for nominal diameters of 3,0 mm to 12,0 mm and from stainless steel wire for nominal diameters of 3,5 mm to 8,0 mm. Where corrosion protection is required, the material or coating shall be declared in accordance with the relevant specification given in Annex A of EN 14592.

Geometry and Material

The nominal diameter (outer thread diameter), d, shall not be less than 3,0 mm and shall not be greater than 12,0 mm. The overall length, L, of screws shall not be less than 20 mm and shall not be greater than 600 mm. Other dimensions are given in Annex A.

Screw types "HBS", "SCH", "GHS", "PSC", "HTP", "SENK", "SNK", "HTS", "HBS+", "GHS+", "KEGEL", "KGL", "HTK", "TBS", „GHSK", "TELLER", "TLL", "HTT", "DGZ", "LBS", "VGS", "GWS", "VGZ" and "GWZ" are made from carbon steel.

Screw types "KKF" and "GHKF" are made from martensitic stainless steel 1.4006 and SCI are made from stainless steel grade 1.4401 or 1.4567.

Screw types "KKT" are made from either carbon steel or stainless steel.

The ratio of inner thread diameter to outer thread diameter d_i/d ranges from 0,55 to 0,71.

The screws are threaded over a minimum length ℓ_g of 3,3·d (i.e. $\ell_g \geq 3{,}3 \cdot d$).

The lead p (distance between two adjacent thread flanks) ranges from 0,43·d to 0,76·d.

No breaking shall be observed at a bend angle, α, of less than $(45/d^{0,7} + 20)$ degrees.

2 Specification of the intended use in accordance with the applicable EAD

The screws are used for connections in load bearing timber structures between members of solid timber (softwood), glued laminated timber, cross-laminated timber, and laminated veneer lumber, similar glued members, wood-based panels or steel. Rotho Blaas "VGS" and "VGZ" screws are also used as tensile or compressive reinforcement perpendicular to the grain.

Furthermore Rotho Blaas screws with diameters between 6 mm and 12 mm may also be used for the fixing of thermal insulation material on rafters and on vertical facades.

Steel plates and wood-based panels except solid wood panels and cross laminated timber shall only be located on the side of the screw head. The following wood-based panels may be used:

- Plywood according to EN 636 or ETA
- Particleboard according to EN 312 or ETA
- Oriented Strand Board, Type OSB/3 and OSB/4 according to EN 300 or ETA
- Fibreboard according to EN 622-2 and 622-3 or ETA (minimum density 650 kg/m³)
- Cement bonded particleboard
- Solid wood panels according to EN 13353 and EN 13986 and cross laminated timber according to ETA
- Laminated Veneer Lumber, LVL
- Engineered wood products according to ETA, provided that the ETA for the product provides provisions for the use of self-tapping screws and these provisions are applied

The screws shall be driven into the wood without pre-drilling or after pre-drilling with a diameter not larger than the inner thread diameter.

The screws are intended to be used in timber connections for which requirements for mechanical resistance and stability and safety in use in the sense of the Basic Works Requirements 1 and 4 of Regulation 305/2011 (EU) shall be fulfilled.

The design of the connections shall be based on the characteristic load-carrying capacities of the screws. The design capacities shall be derived from the characteristic capacities in accordance with Eurocode 5 or an appropriate national code (e.g. DIN 1052:2008-12).

The screws are intended for use for connections subject to static or quasi static loading.

Section 3.11 of this ETA contains the corrosion protection for Rotho Blaas screws made from carbon steel and the material number of the stainless steel. The martensitic stainless steel screws are for use in timber structures subject to the conditions defined by the service classes 1, 2 and 3 of EN 1995-1-1 (Eurocode 5).

The scope of the screws regarding resistance to corrosion shall be defined according to national provisions that apply at the installation site considering environmental conditions.

The provisions made in this European Technical Assessment are based on an assumed intended working life of the screws of 50 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

Characteristic	Assessment of characteristic
3.1 Mechanical resistance and stability*) (BWR1)	
Tensile strength	Characteristic value $f_{tens,k}$:
Screw made from carbon steel “HBS”, “SCH”, “GHS”, “PSC”, “HTP”, “SENK”, “SNK”, “HTS”, “HBS+”, “GHS+”, “KEGEL”, “KGL”, “HTK”, “TBS”, “GHSK”, “TELLER”, “TLL”, “HTT”, “DGZ”, “LBS”, “VGS”, “GWS”, “VGZ”, “GWZ” “KKT”, “MNB” and “MNG” and screws made from stainless steel “KKT”, “MNA”, “MNB”, “MNG”, “KKF” and “GHKF” screws	Screw d = 3,0 mm: 2,8 kN Screw d = 3,5 mm: 3,8 kN Screw d = 4,0 mm: 5,0 kN Screw d = 4,5 mm: 6,4 kN Screw d = 5,0 mm: 7,9 kN Screw d = 6,0 mm: 11,3 kN Screw d = 7,0 mm: 15,4 kN Screw d = 8,0 mm: 20,1 kN Screw d = 9,0 mm: 25,4 kN Screw d = 10,0 mm: 31,4 kN Screw d = 11,0 mm: 38,0 kN Screw d = 12,0 mm: 33,9 kN
Screws made from stainless steel “SCI“	Screw d = 3,5 mm: 2,1 kN Screw d = 4,0 mm: 2,8 kN Screw d = 4,5 mm: 3,5 kN Screw d = 5,0 mm: 4,3 kN Screw d = 6,0 mm: 6,2 kN Screw d = 8,0 mm: 11,1 kN
Insertion moment	Ratio of the characteristic torsional strength to the mean insertion moment: $f_{tor,k} / R_{tor,mean} \geq 1,5$
Torsional strength	Characteristic value $f_{tor,k}$:
“HBS”, “SCH”, “GHS”, “PSC”, “HTP”, “SENK”, “SNK”, “HTS”, “HBS+”, “GHS+”, “KEGEL”, “KGL”, “HTK”, “TBS”, “GHSK”, “TELLER”, “TLL”, “HTT”, “KKF“, “GHKF”, “KEGEL410”, “KGA”, “HTK4”, “VGS”, “GWS”, “VGZ”, “GWZ” and “DGZ” screws	Screw d = 3,0 mm: 1,3 Nm Screw d = 3,5 mm: 2,0 Nm Screw d = 4,0 mm: 3,0 Nm Screw d = 4,5 mm: 5,0 Nm Screw d = 5,0 mm: 7,5 Nm Screw d = 6,0 mm: 12,0 Nm Screw d = 7,0 mm: 18,0 Nm Screw d = 8,0 mm: 28,0 Nm Screw d = 9,0 mm: 35,0 Nm Screw d = 10,0 mm: 40,0 Nm Screw d = 11,0 mm: 60,0 Nm Screw d = 12,0 mm: 60,0 Nm
“KKT”, “MNA”, “MNB”, “MNG”, “SCI“ and “LBS” screws	Screw d = 3,5 mm: 1,5 Nm Screw d = 4,0 mm: 2,0 Nm Screw d = 4,5 mm: 3,0 Nm Screw d = 5,0 mm: 5,0 Nm Screw d = 6,0 mm: 8,0 Nm Screw d = 8,0 mm: 18,0 Nm

Characteristic		Assessment of characteristic
3.2	**Safety in case of fire (BWR2)**	
	Reaction to fire	The screws are made from steel classified as performance class A1 of the characteristic reaction to fire, in accordance with the provisions of EC decision 96/603/EC, amended by EC Decision 2000/605/EC.
3.3	**Hygiene, health and the environment (BWR3)**	
	Influence on air quality	The product does not contain/release dangerous substances specified in TR 034, dated March 2012 **)
3.7	**Sustainable use of natural resources (BR7)**	No Performance Determined
3.8	**General aspects related to the performance of the product**	The screws have been assessed as having satisfactory durability and serviceability when used in timber structures using the timber species described in Eurocode 5 and subject to the conditions defined by service classes 1, 2 and 3
	Identification	See Annex A

*) See additional information in section 3.9 – 3.12.

**) In addition to the specific clauses relating to dangerous substances contained in this European technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

3.9 Mechanical resistance and stability

The load-carrying capacities for Rotho Blaas screws are applicable to the wood-based materials mentioned in paragraph 1 even though the term timber has been used in the following.

The characteristic lateral load-carrying capacities and the characteristic axial withdrawal capacities of Rotho Blaas screws should be used for designs in accordance with Eurocode 5 or an appropriate national code.

Pointside penetration length must be $\ell_{ef} \geq 4 \cdot d$, where d is the outer thread diameter of the screw. For the fixing of rafters, point side penetration must be at least 40 mm, $\ell_{ef} \geq$ 40 mm.

ETA's for structural members may be considered if applicable.

For wood-based panels the relevant ETA's must be considered where applicable.

Lateral load-carrying capacity
The characteristic lateral load-carrying capacity of Rotho Blaas screws shall be calculated according to EN 1995-1-1:2008 (Eurocode 5) using the outer thread diameter d as the nominal diameter of the screw.

The characteristic yield moment shall be calculated from:

Rotho Blaas screws made from carbon steel and "KKT" and "KKF" screws made from stainless steel for 3,0 mm $\leq$ d $\leq$ 5,0 mm:
$M_{y,k} = 0{,}15 \cdot 550\ (N/mm^2) \cdot d^{2,6}$
[Nmm]

Rotho Blaas screws made from carbon steel and "KKT" and "KKF" screws made from stainless steel for 6,0 mm $\leq$ d $\leq$ 11,0 mm:
$M_{y,k} = 0{,}15 \cdot 600\ (N/mm^2) \cdot d^{2,6}$
[Nmm]

Rotho Blaas screws made from carbon steel for d = 12,0 mm:
$M_{y,k} = 0{,}15 \cdot 500\ (N/mm^2) \cdot d^{2,6}$
[Nmm]

Rotho Blaas screws made from stainless steel "SCI":
$M_{y,k} = 0{,}15 \cdot 220\ (N/mm^2) \cdot d^{2,6}$
[Nmm]

where
d outer thread diameter [mm]

Axial withdrawal capacity
The characteristic axial withdrawal capacity of Rotho Blaas screws in solid timber (softwood), glued laminated timber or cross-laminated timber members at an angle of $30° \leq \alpha \leq 90°$ to the grain shall be calculated according to EN 1995-1-1:2008 from:

$$F_{ax,\alpha,Rk} = \frac{n_{ef} \cdot 11{,}7 \cdot d \cdot \ell_{ef}}{1{,}2 \cdot \cos^2\alpha + \sin^2\alpha} \cdot \left(\frac{\rho_k}{350}\right)^{0,8} \quad [N]$$

where
$F_{ax,\alpha,RK}$ characteristic withdrawal capacity of the screw at an angle α to the grain [N]
n_{ef} effective number of screws according to EN 1995-1-1:2008
d outer thread diameter [mm]
ℓ_{ef} pointside penetration length of the threaded part according to EN 1995-1-1:2008 [mm]
α angle between grain and screw axis ($\alpha \geq 30°$)
ρ_k characteristic density [kg/m³]

The axial withdrawal capacity is limited by the head pull-through capacity and the tensile strength of the screw.

Bending angle
A minimum plastic bending angle of $45°/d^{0,7} + 20°$ was reached without breaking the screws.

Head pull-through capacity
The characteristic head pull-through capacity of Rotho Blaas screws in softwoods and wood-based panels shall be calculated according to EN 1995-1-1:2008 from:

$$F_{ax,\alpha,Rk} = n_{ef} \cdot f_{head,k} \cdot d_h^2 \cdot \left(\frac{\rho_k}{350}\right)^{0,8} \quad [N]$$

where:
$F_{ax,\alpha,RK}$ characteristic head pull-through capacity of the connection at an angle $\alpha \geq 30°$ to the grain [N]
n_{ef} effective number of screws according to EN 1995-1-1:2008
$f_{head,k}$ characteristic head pull-through parameter [N/mm²]
d_h diameter of the screw head [mm]
ρ_k characteristic density [kg/m³], for wood-based panels ρ_k = 380 kg/m³

Characteristic head pull-through parameter for Rotho Blaas screws or for washer except "KKF" and "KKT" screws in connections with softwood and in connections with wood-based panels with thicknesses above 20 mm:
$f_{head,k} = 10{,}5$ N/mm²

Characteristic head pull-through parameter for Rotho Blaas "KKF" and "KKT" screws in connections with softwood and in connections with wood-based panels with thicknesses above 20 mm:
$f_{head,k} = 16{,}5$ N/mm²

Characteristic head pull-through parameter for screws in connections with wood-based panels with thicknesses between 12 mm and 20 mm:
$f_{head,k} = 8$ N/mm²

Screws in connections with wood-based panels with a thickness below 12 mm (minimum thickness of the wood based panels of 1,2·d with d as outer thread diameter):
$f_{head,k}$ = 8 N/mm²
limited to $F_{ax,Rk}$ = 400 N

The head diameter d_h of all screws except "KKF" and "KKT" screws shall be greater than 1,8·d_s, where d_s is the smooth shank or the wire diameter. Otherwise the characteristic head pull-through capacity $F_{ax,\alpha,Rk}$ = 0.

The minimum thickness of wood-based panels according to the clause 3.9 must be observed.

In steel-to-timber connections the head pull-through capacity may be disregarded.

Tensile capacity
The characteristic tensile strength $f_{tens,k}$ of screws made from carbon steel and "KKF" and "KKT" screws made from stainless steel is:

Screw d = 3,0 mm:	2,8 kN
Screw d = 3,5 mm:	3,8 kN
Screw d = 4,0 mm:	5,0 kN
Screw d = 4,5 mm:	6,4 kN
Screw d = 5,0 mm:	7,9 kN
Screw d = 6,0 mm:	11,3 kN
Screw d = 7,0 mm:	15,4 kN
Screw d = 8,0 mm:	20,1 kN
Screw d = 9,0 mm:	25,4 kN
Screw d = 10,0 mm:	31,4 kN
Screw d = 11,0 mm:	38,0 kN
Screw d = 12,0 mm:	33,9 kN

Screws made from stainless steel "SCI":

Screw d = 3,5 mm:	2,1 kN
Screw d = 4,0 mm:	2,8 kN
Screw d = 4,5 mm:	3,5 kN
Screw d = 5,0 mm:	4,3 kN
Screw d = 6,0 mm:	6,2 kN
Screw d = 8,0 mm:	11,1 kN

For screws used in combination with steel plates, the tear-off capacity of the screw head should be greater than the tensile strength of the screw.

Combined laterally and axially loaded screws
For screwed connections subjected to a combination of axial and lateral load, the following expression should be satisfied:

$$\left(\frac{F_{ax,Ed}}{F_{ax,Rd}}\right)^2 + \left(\frac{F_{la,Ed}}{F_{la,Rd}}\right)^2 \leq 1$$

where
$F_{ax,Ed}$ axial design load of the screw
$F_{la,Ed}$ lateral design load of the screw
$F_{ax,Rd}$ design load-carrying capacity of an axially loaded screw
$F_{la,Rd}$ design load-carrying capacity of a laterally loaded screw

Mechanically jointed beams
"VGS" and "VGZ" screws with a full thread may be used for connections in structural members which are composed of several parts in mechanically jointed beams or columns.

The axial slip modulus K_{ser} of a screw with a full thread for the serviceability limit state should be taken independent of angle α to the grain as:

$$C = K_{ser} = 780 \cdot d^{0,2} \cdot \ell_{ef}^{0,4} \quad [N/mm]$$

where
d outer thread diameter [mm]
ℓ_{ef} penetration length in the structural member [mm] (ℓ_1 or ℓ_2) (see Annex B)

Compression reinforcement
"VGS" and "VGZ" screws with a full thread may be used for reinforcement of timber members with compression stresses at an angle α to the grain of 45° < α < 90°. The compression force must be evenly distributed over all screws.

The characteristic load-carrying capacity for a contact area with screws with a full thread at an angle α to the grain of 45° ≤ α ≤ 90° shall be calculated from:

$$F_{90,Rk} = \min \begin{cases} k_{c,90} \cdot B \cdot \ell_{ef,1} \cdot f_{c,90,k} + n \cdot \min\left(F_{ax,Rk}; F_{ki,Rk}\right) \\ B \cdot \ell_{ef,2} \cdot f_{c,90,k} \end{cases}$$

where
$F_{90,Rk}$ load-carrying capacity of reinforced contact area [N]
$k_{c,90}$ factor for compression perpendicular to the grain according to EN 1995-1-1:2008, 6.1.5
B bearing width [mm]
$\ell_{ef,1}$ effective length of contact area according to EN 1995-1-1:2008, 6.1.5 [mm]
$f_{c,90,k}$ characteristic compressive strength perpendicular to the grain [N/mm²]
n number of reinforcement screws, n = $n_0 \cdot n_{90}$
n_0 number of reinforcement screws arranged in a row parallel to the grain
n_{90} number of reinforcement screws arranged in a row perpendicular to the grain
$F_{ax,Rk}$ characteristic axial withdrawal capacity [N]
$F_{ki,Rk}$ characteristic buckling capacity [N]
$\ell_{ef,2}$ effective distribution length in the plane of the screw tips [mm]
$\ell_{ef,2}$ = ℓ_{ef} + (n_0 - 1) · a_1 + min (ℓ_{ef}; $a_{1,c}$) for reinforced end-bearings [mm]
$\ell_{ef,2}$ = 2 · ℓ_{ef} + (n_0 - 1) · a_1 for reinforced centre-bearings [mm]

ℓ_{ef} point side penetration length [mm]
a_1 spacing parallel to the grain [mm]
$a_{1,c}$ end distance [mm]

Reinforcing screws for compression shall be arranged according to Annex C.

Reinforcing screws for wood-based panels are not covered by this European Technical Assessment.

The characteristic buckling capacity $F_{ki,Rk}$ shall be calculated from:

$$F_{ki,Rk} = \kappa_c \cdot N_{pl,k} \quad [N]$$

where

$$\kappa_c = \begin{cases} 1 & \text{for } \bar{\lambda}_k \le 0,2 \\ \dfrac{1}{k + \sqrt{k^2 - \bar{\lambda}_k^2}} & \text{for } \bar{\lambda}_k > 0,2 \end{cases}$$

$$k = 0,5 \cdot \left[1 + 0,49 \cdot (\bar{\lambda}_k - 0,2) + \bar{\lambda}_k^2\right]$$

The relative slenderness ratio shall be calculated from:

$$\bar{\lambda}_k = \sqrt{\frac{N_{pl,k}}{N_{ki,k}}}$$

where

$$N_{pl,k} = \pi \cdot \frac{d_1^2}{4} \cdot f_{y,k} \quad [N]$$

is the characteristic value for the axial capacity in case of plastic analysis referred to the inner thread cross section.

Characteristic yield strength of screws from carbon steel:
$f_{y,k} = 1000$ [N/mm²]

Characteristic ideal elastic buckling load:
$$N_{ki,k} = \sqrt{c_h \cdot E_S \cdot I_S} \quad [N]$$

Elastic foundation of the screw:
$$c_h = (0,19 + 0,012 \cdot d) \cdot \rho_k \cdot \left(\frac{\alpha}{180°} + 0,5\right) \quad [N/mm^2]$$

Modulus of elasticity:
$E_s = 210000$ [N/mm²]

Second moment of area:
$$I_S = \frac{\pi}{64} \cdot d_1^4 \quad [mm^4]$$

d_1 = inner thread diameter [mm]

Note: When determining design values of the compressive capacity it should be considered that $f_{ax,d}$ is to be calculated using k_{mod} and γ_M for timber according to EN 1995 while $N_{pl,d}$ is calculated using $\gamma_{M,0}$ for steel according to EN 1993.

Thermal insulation material on top of rafters

Rotho Blaas screws with an outer thread diameter of at least d = 6 mm may be used for the fixing of Thermal insulation material on top of rafters.

The thickness of the insulation shall not exceed 300 mm. The rafter insulation must be placed on top of solid timber or glued laminated timber rafters or cross-laminated timber members and be fixed by battens arranged parallel to the rafters or by wood-based panels on top of the insulation layer. The insulation of vertical facades is also covered by the rules given here.

Screws must be screwed in the rafter through the battens or panels and the insulation without pre-drilling in one sequence.

The angle α between the screw axis and the grain direction of the rafter should be between 30° and 90°.

The battens must be from solid timber (softwood) according to EN 338:2003-04. The minimum thickness t and the minimum width b of the battens is given as follows:

Screws d = 6 mm:	b_{min} = 50 mm	t_{min} = 30 mm
Screws d = 7 mm:	b_{min} = 50 mm	t_{min} = 30 mm
Screws d = 8 mm:	b_{min} = 50 mm	t_{min} = 30 mm
Screws d = 9 mm:	b_{min} = 60 mm	t_{min} = 40 mm
Screws d = 10 mm:	b_{min} = 60 mm	t_{min} = 40 mm
Screws d = 11 mm:	b_{min} = 80 mm	t_{min} = 60 mm
Screws d = 12 mm:	b_{min} = 100 mm	t_{min} = 80 mm

Alternatively to the battens, boards with a minimum thickness of 20 mm from plywood according to EN 636, particle board according to EN 312, oriented strand board OSB/3 and OSB/4 according to EN 300, solid wood panels according to EN 13353 or to ETA or national provision that apply at the installation site or cross laminated timber according to ETA may be used.

The rafter consists of solid timber (softwood) according to EN 338, glued laminated timber according to EN 14081, cross-laminated timber, and laminated veneer lumber according to EN 14374 or to ETA or similar glued members according to ETA.

The insulation must comply with a European Technical specification.

The insulation must have a minimum compressive stress of $\sigma_{10\%}$ = 0,05 N/mm² at 10 % deformation according to EN 826:1996-05.

The analysis of the fixing of the insulation and battens or boards, respectively, may be carried out using the static model in Annex D. The battens or boards, respectively, must have sufficient strength and stiffness. The maximum design value of the compressive stress between the battens

or boards, respectively, and the insulation shall not exceed $1{,}1 \cdot \sigma_{10\%}$.

The characteristic axial capacity of the "HBS", "HBS+", „TBS", "KKF" and "SCI" screws for rafter or facade insulation shall be calculated from:

$$F_{ax,\alpha,Rd} = \min\left\{\frac{f_{ax,d} \cdot d \cdot \ell_{ef} \cdot k_1 \cdot k_2}{1.2 \cdot \cos^2\alpha + \sin^2\alpha} \cdot \left(\frac{\rho_k}{350}\right)^{0.8}; f_{head,d} \cdot d_h^2 \cdot \left(\frac{\rho_k}{350}\right)^{0.8}; \frac{f_{tens,k}}{\gamma_{M2}}\right\}$$

The characteristic axial capacity of the "DGZ", "VGS" or "VGZ" screws for rafter or facade insulation shall be calculated from:

$$F_{ax,\alpha,Rd} = \min\left\{\begin{array}{l} \dfrac{f_{ax,d} \cdot d \cdot \ell_{ef} \cdot k_1 \cdot k_2}{1{,}2 \cdot \cos^2\alpha + \sin^2\alpha} \cdot \left(\dfrac{\rho_k}{350}\right)^{0{,}8} \\ \max\left\{f_{head,d} \cdot d_h^2; \dfrac{f_{ax,d} \cdot d \cdot \ell_{ef,b}}{1{,}2 \cdot \cos^2\alpha + \sin^2\alpha}\right\} \cdot \left(\dfrac{\rho_k}{350}\right)^{0{,}8} \\ \dfrac{f_{tens,k}}{\gamma_{M2}} \end{array}\right\}$$

where

$F_{ax,\alpha,Rd}$	Design value of the axial capacity of the connection at an angle α to the grain [N]
$f_{ax,d}$	Design value of the axial withdrawal parameter of the threaded part of the screw [N/mm²]
d	Outer thread diameter [mm]
ℓ_{ef}	Point side penetration length of the threaded part according to EN 1995-1-1:2008 [mm]
$\ell_{ef,b}$	Length of the threaded part in the batten [mm]
α	Angle between grain and screw axis ($\alpha \geq 30°$)
γ_{M2}	Partial factor according to EN 1993-1-1 or to the particular national annex
k_1	min {1; $200/t_{HI}$}
k_2	min {1; $\sigma_{10\%}/0{,}12$}
t_{HI}	Thickness of the Thermal insulation material [mm]
$\sigma_{10\%}$	Compressive stress of the Thermal insulation material under 10 % deformation [N/mm²] $\sigma_{10\%} \geq 0{,}05$ N/mm²
$f_{head,d}$	Design value of the head pull-through capacity [N/mm²]
d_h	Outer diameter of the screw head [mm]
ρ_k	Characteristic density of the batten or rafter, respectively [kg/m³]

Friction forces shall not be considered for the design of the characteristic axial capacity of the screws.

The anchorage of wind suction forces as well as the bending stresses of the battens or the boards, respectively, shall be considered in design. Additional screws perpendicular to the grain of the rafter (angle $\alpha = 90°$) may be arranged if necessary.

The maximum screw spacing is $e_S = 1{,}75$ m.

Screws for the anchorage of rafter insulation shall be arranged according to Annex D (thermal insulation on rafters with parallel inclined screws or with alternatively inclined screws).

3.11 Aspects related to the performance of the product

3.11.1 Corrosion protection in service class 1, 2 and 3.
The Rotho Blaas screws are produced from steel wire. Screws made from steel are electrogalvanised and yellow or blue chromate. The thickness of the zinc coating is minimum 5 µm.
Steel no. 1.4006, 1.4401 and 1.4567 is used for screws made from stainless steel.

3.12 General aspects related to the intended use of the product

The screws are manufactured in accordance with the provisions of the ETA using the automated manufacturing process and laid down in the technical documentation.

The installation shall be carried out in accordance with Eurocode 5 or an appropriate national code unless otherwise is defined in the following. Instructions from Rotho Blaas SRL should be considered for installation.

The screws are used for connections in load bearing timber structures between members of solid timber (softwood), glued laminated timber, cross-laminated timber, laminated veneer lumber, similar glued members, wood-based panels or steel members.

The screws may be used for connections in load bearing timber structures with structural members according to an associated ETA, if according to the associated ETA of the structural member a connection in load bearing timber structures with screws according to a ETA is allowed.

Rotho Blaas fully threaded "VGS" and "VGZ" screws are also used as tensile or compressive reinforcement perpendicular to the grain.

Furthermore the screws with diameters of at least 6 mm may also be used for the fixing of insulation on top of rafters.

A minimum of two screws should be used for connections in load bearing timber structures.

The minimum penetration depth in structural members made of solid, glued or cross-laminated timber is 4·d.

Wood-based panels and steel plates should only be arranged on the side of the screw head. The minimum thickness of wood-based panels should be 1,2·d. Furthermore the minimum thickness for following wood-based panels should be:

- Plywood, Fibreboards: 6 mm
- Particleboards, OSB, Cement Particleboards: 8 mm
- Solid wood panels: 12 mm

For structural members according to ETA's the terms of the ETA's must be considered.

If screws with an outer thread diameter $d \geq 8$ mm are used in load bearing timber structures, the structural solid or glued laminated timber, laminated veneer lumber and similar glued members must be from spruce, pine or fir. This does not apply for screws in pre-drilled holes.

The minimum angle between the screw axis and the grain direction is $\alpha = 30°$.

The screws shall be driven into the wood with or without pre-drilling. The maximum pre-drilling diameter is the inner thread diameter. The hole diameter in steel members must be predrilled with a suitable diameter. Hard wood substrates shall always be pre-drilled.

Only the equipment prescribed by Rotho Blaas SRL shall be used for driving the screws.

In connections with screws with countersunk head according to Annex A the head must be flush with the surface of the connected structural member. A deeper countersink is not allowed.

For structural timber members, minimum spacing and distances for screws in predrilled holes are given in EN 1995-1-1:2008 (Eurocode 5) clause 8.3.1.2 and table 8.2 as for nails in predrilled holes. Here, the outer thread diameter d must be considered.

For screws in non-predrilled holes, minimum spacing and distances are given in EN 1995-1-1:2008 (Eurocode 5) clause 8.3.1.2 and table 8.2 as for nails in non-predrilled holes.

Minimum distances and spacing for "KKT" screws in non-predrilled holes in members with a minimum thickness $t = 4 \cdot d$ and a minimum width of 12·d or 60 mm, whichever is the greater, may be taken as:

Spacing a_1 parallel to the grain	$a_1 = 8 \cdot d$
Spacing a_2 perpendicular to the grain	$a_2 = 4 \cdot d$
Loaded end distance:	$a_{3,t} = 12 \cdot d$
Unloaded end distance:	$a_{3,c} = 5 \cdot d$
Loaded edge distance:	$a_{4,t} = 5 \cdot d$
Unloaded edge distance:	$a_{4,c} = 4 \cdot d$

For Douglas fir members minimum spacing and distances parallel to the grain shall be increased by 50%.

Minimum distances from loaded or unloaded ends must be 15·d for screws in non-predrilled holes with outer thread diameter $d \geq 8$ mm and timber thickness $t < 5 \cdot d$.

Minimum distances from the unloaded edge perpendicular to the grain may be reduced to 3·d also for timber thickness $t < 5 \cdot d$, if the spacing parallel to the grain and the end distance is at least 25·d.

Minimum distances and spacing for exclusively axially loaded screws in predrilled and non-predrilled holes in members with a minimum thickness $t = 12 \cdot d$ and a minimum width of 8·d or 60 mm, whichever is the greater, may be taken as:

Spacing a_1 parallel to the grain	$a_1 = 5 \cdot d$
Spacing a_2 perpendicular to the grain	$a_2 = 5 \cdot d$
Distance $a_{1,CG}$ from centre of the screw-part in timber to the end grain	$a_{1,CG} = 10 \cdot d$
Distance $a_{2,CG}$ from centre of the screw-part in timber to the edge	$a_{2,CG} = 4 \cdot d$

Spacing a_2 perpendicular to the grain may be reduced from 5·d to 2,5·d, if the condition $a_1 \cdot a_2 \geq 25 \cdot d^2$ is fulfilled.

For a crossed screw couple the minimum spacing between the crossing screws is 1,5·d.

Minimum thickness for structural members is t = 30 mm for screws with outer thread diameter d = 8 mm, t = 40 mm for screws with outer thread diameter d = 10 mm, t = 60 mm for screws with outer thread diameter d = 11 mm, and t = 80 mm for screws with outer thread diameter d = 12 mm.

Unless specified otherwise in the technical specification (ETA or hEN) of cross laminated timber, minimum distances and spacing for screws in the wide face of cross laminated timber members with a minimum thickness $t = 10 \cdot d$ may be taken as (see Annex B):

Spacing a_1 parallel to the grain	$a_1 = 4 \cdot d$
Spacing a_2 perpendicular to the grain	$a_2 = 2{,}5 \cdot d$
Distance $a_{3,c}$ from centre of the screw-part in timber to the unloaded end grain	$a_{3,c} = 6 \cdot d$
Distance $a_{3,t}$ from centre of the screw-part in timber to the loaded end grain	$a_{3,t} = 6 \cdot d$
Distance $a_{4,c}$ from centre of the screw-part in timber to the unloaded edge	$a_{4,c} = 2{,}5 \cdot d$
Distance $a_{4,t}$ from centre of the screw-part in timber to the loaded edge	$a_{4,t} = 6 \cdot d$

Unless specified otherwise in the technical specification (ETA or hEN) of cross laminated timber, minimum distances and spacing for screws in the edge surface of cross laminated timber members with a minimum thickness $t = 10 \cdot d$ and a minimum penetration depth perpendicular to the edge surface of 10·d may be taken as (see Annex B):

Spacing a_1 parallel to the CLT plane	$a_1 = 10 \cdot d$
Spacing a_2 perpendicular to the CLT plane	$a_2 = 4 \cdot d$
Distance $a_{3,c}$ from centre of the screw-part in	

timber to the unloaded end	$a_{3,c} = 7 \cdot d$
Distance $a_{3,t}$ from centre of the screw-part in timber to the loaded end	$a_{3,t} = 12 \cdot d$
Distance $a_{4,c}$ from centre of the screw-part in timber to the unloaded edge	$a_{4,c} = 3 \cdot d$
Distance $a_{4,t}$ from centre of the screw-part in timber to the loaded edge	$a_{4,t} = 6 \cdot d$

4 Attestation and verification of constancy of performance (AVCP)

4.1 AVCP system

According to the decision 97/176/EC of the European Commission1, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 3.

5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark.

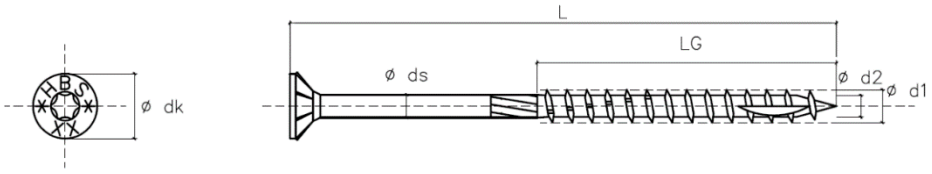
Issued in Copenhagen on 2016-04-07 by

Thomas Bruun
Managing Director, ETA-Danmark

Annex A
Drawings of Rotho Blaas Screws

Rotho Blaas Screws "HBS"

d_1 [mm]	**3.00 ± 0.08**	**3.50 ± 0.09**	**4.00 ± 0.10**	**4.50 ± 0.11**	**5.00 ± 0.12**	**6.00 ± 0.15**	**8.00 ± 0.20**	**10.00 ± 0.25**	**12.00 ± 0.30**
d_2 [mm]	2.00 ± 0.05	2.25 ± 0.05	2.55 ± 0.06	2.80 ± 0.07	3.40 ± 0.09	3.95 ± 0.10	5.40 ± 0.13	6.40 ± 0.16	6.80 ± 0.17
d_S [mm]	2.16 ± 0.05	2.45 ± 0.06	2.75 ± 0.07	3.15 ± 0.08	3.65 ± 0.09	4.30 ± 0.11	5.80 ± 0.14	7.00 ± 0.18	8.00 ± 0.20
d_K [mm]	6.00 ± 0.15	7.00 ± 0.18	8.00 ± 0.20	9.00 ± 0.23	10.00 ± 0.25	12.00 ± 0.30	14.50 ± 0.36	18.25 ± 0.46	20.75 ± 0.52



Shank Ribs Optional

d_1 3.00 mm		d_1 3.50 mm		d_1 4.00 mm		d_1 4.50 mm		d_1 5.00 mm		d_1 6.00 mm		d_1 8.00 mm		d_1 10.00 mm		d_1 12.00	
L [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]
20	15	20	14	25	20	25	20	40	20	40	35	40	32	60	52	160	80
25	20	25	14	30	16	30	25	45	24	50	35	60	52	80	52	200	80
30	25	25	20	30	18	35	18	50	24	50	45	80	52	90	52	200	100
35	30	30	18	30	25	35	24	50	30	60	30	90	52	100	52	220	80
40	35	30	25	35	16	40	24	60	30	60	35	100	52	120	52	220	100
		35	18	35	18	45	24	60	35	70	30	100	60	120	60	240	80
		40	18	40	24	45	30	70	35	70	40	100	80	120	80	240	100
		45	24	45	24	50	24	70	40	80	40	120	52	140	52	260	80
		50	24	45	30	50	30	80	40	80	50	120	60	140	60	260	100
				50	24	60	30	80	50	90	40	120	80	140	80	280	80
				50	30	60	35	90	45	90	50	140	52	160	80	280	100
				60	30	70	35	90	55	90	55	140	60	180	80	300	80
				60	35	70	40	100	50	100	50	140	80	180	90	300	100
				70	35	80	40	100	60	100	60	160	80	200	80	300	120
				70	40			110	50	110	50	160	90	200	100	320	80
				80	40			110	55	110	60	160	100	220	80	320	100
								110	60	120	50	180	80	220	100	320	120
								120	50	120	60	180	90	240	80	340	80
								120	60	120	75	180	100	240	100	340	100
										130	50	200	80	260	80	340	120
										130	60	200	100	260	100	360	80
										130	75	220	80	280	80	360	100
										140	75	220	100	280	100	360	120
										140	80	240	80	300	80	380	80
										150	75	240	100	300	100	380	100
										150	80	260	80	300	120	380	120
										160	75	260	100	320	80	400	80
										160	90	280	80	320	100	400	100
										180	75	280	100	320	120	400	120
										180	100	300	80	340	80	440	100
										200	75	300	100	340	100	440	120
										200	100	300	120	340	120	480	100
										220	75	320	80	360	80	480	120
										220	100	320	100	360	100	500	100
										240	75	320	120	360	120	500	120
										240	100	340	80	380	80	520	100
										260	75	340	100	380	100	520	120
										260	100	340	120	380	120	540	100
										280	75	360	80	400	80	540	120
										280	100	360	100	400	100	550	100
										300	75	360	120	400	120	550	120
										300	100	380	80	420	80	560	100
												380	100	420	100	560	120
												380	120	420	120	600	100
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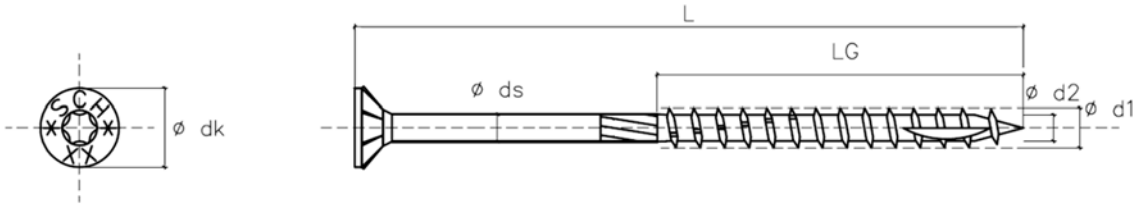
												400	100	440	120		
												400	120	450	100		
												420	80	450	120		
												420	100	460	100		
												420	120	460	120		
												440	100	480	100		
												440	120	480	120		
												450	100	500	100		
												450	120	500	120		
												460	100				
												460	120				
												480	100				
												480	120				
												500	100				
												500	120				

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws “SCH”

d_1 [mm]	**3.00 ± 0.08**	**3.50 ± 0.09**	**4.00 ± 0.10**	**4.50 ± 0.11**	**5.00 ± 0.12**	**6.00 ± 0.15**	**8.00 ± 0.20**	**10.00 ± 0.25**	**12.00 ± 0.30**
d_2 [mm]	2.00 ± 0.05	2.25 ± 0.05	2.55 ± 0.06	2.80 ± 0.07	3.40 ± 0.09	3.95 ± 0.10	5.40 ± 0.13	6.40 ± 0.16	6.80 ± 0.17
d_S [mm]	2.16 ± 0.05	2.45 ± 0.06	2.75 ± 0.07	3.15 ± 0.08	3.65 ± 0.09	4.30 ± 0.11	5.80 ± 0.14	7.00 ± 0.18	8.00 ± 0.20
d_K [mm]	6.00 ± 0.15	7.00 ± 0.18	8.00 ± 0.20	9.00 ± 0.23	10.00 ± 0.25	12.00 ± 0.30	14.50 ± 0.36	18.25 ± 0.46	20.75 ± 0.52



Shank Ribs and Carving Optional

d_1 3.00 mm		d_1 3.50 mm		d_1 4.00 mm		d_1 4.50 mm		d_1 5.00 mm		d_1 6.00 mm		d_1 8.00 mm		d_1 10.00 mm		d_1 12.00	
L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]
20	15	20	14	25	20	25	20	40	20	40	35	40	32	60	52	160	80
25	20	25	14	30	16	30	25	45	24	50	35	60	52	80	52	200	80
30	25	25	20	30	18	35	18	50	24	50	45	80	52	90	52	200	100
35	30	30	18	30	25	35	24	50	30	60	30	90	52	100	52	220	80
40	35	30	25	35	16	40	24	60	30	60	35	100	52	120	52	220	100
		35	18	35	18	45	24	60	35	70	30	100	60	120	60	240	80
		40	18	40	24	45	30	70	35	70	40	100	80	120	80	240	100
		45	24	45	24	50	24	70	40	80	40	120	52	140	52	260	80
		50	24	45	30	50	30	80	40	80	50	120	60	140	60	260	100
				50	24	60	30	80	50	90	40	120	80	140	80	280	80
				50	30	60	35	90	45	90	50	140	52	160	80	280	100
				60	30	70	35	90	55	90	55	140	60	180	80	300	80
				60	35	70	40	100	50	100	50	140	80	180	90	300	100
				70	35	80	40	100	60	100	60	160	80	200	80	300	120
				70	40			110	50	110	50	160	90	200	100	320	80
				80	40			110	55	110	60	160	100	220	80	320	100
								110	60	120	50	180	80	220	100	320	120
								120	50	120	60	180	90	240	80	340	80
								120	60	120	75	180	100	240	100	340	100
										130	50	200	80	260	80	340	120
										130	60	200	100	260	100	360	80
										130	75	220	80	280	80	360	100
										140	75	220	100	280	100	360	120
										140	80	240	80	300	80	380	80
										150	75	240	100	300	100	380	100
										150	80	260	80	300	120	380	120
										160	75	260	100	320	80	400	80
										160	90	280	80	320	100	400	100
										180	75	280	100	320	120	400	120
										180	100	300	80	340	80	440	100
										200	75	300	100	340	100	440	120
										200	100	300	120	340	120	480	100
										220	75	320	80	360	80	480	120
										220	100	320	100	360	100	500	100
										240	75	320	120	360	120	500	120
										240	100	340	80	380	80	520	100
										260	75	340	100	380	100	520	120
										260	100	340	120	380	120	540	100
										280	75	360	80	400	80	540	120
										280	100	360	100	400	100	550	100
										300	75	360	120	400	120	550	120
										300	100	380	80	420	80	560	100
												380	100	420	100	560	120
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												400	80	440	100	600	120
												400	100	440	120		
												400	120	450	100		
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												420	100	460	100		
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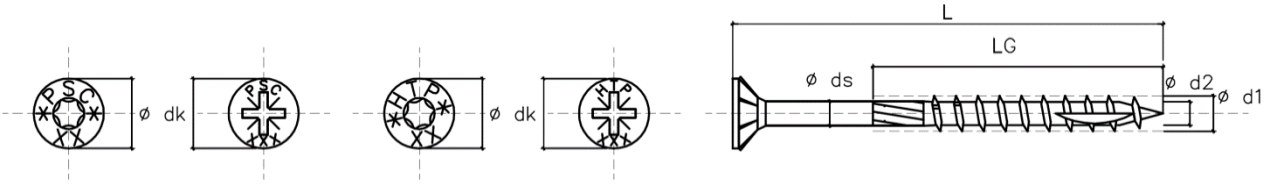
												440	120	480	120		
												450	100	500	100		
												450	120	500	120		
												460	100				
												460	120				
												480	100				
												480	120				
												500	100				
												500	120				

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "PSC" or "HTP"

d_1 [mm]	**3.00 ± 0.08**	**3.50 ± 0.09**	**4.00 ± 0.10**	**4.50 ± 0.11**	**5.00 ± 0.12**	**6.00 ± 0.15**	**8.00 ± 0.20**
d_2 [mm]	2.00 ± 0.05	2.25 ± 0.05	2.55 ± 0.06	2.80 ± 0.07	3.40 ± 0.09	3.95 ± 0.10	5.40 ± 0.13
d_S [mm]	2.16 ± 0.05	2.45 ± 0.06	2.75 ± 0.07	3.15 ± 0.08	3.65 ± 0.09	4.30 ± 0.11	5.80 ± 0.14
d_K [mm]	6.00 ± 0.15	7.00 ± 0.18	8.00 ± 0.20	9.00 ± 0.23	10.00 ± 0.25	12.00 ± 0.30	14.50 ± 0.36



Shank Ribs and Carving Optional

d_1 3.00 mm		d_1 3.50 mm		d_1 4.00 mm		d_1 4.50 mm		d_1 5.00 mm		d_1 6.00 mm		d_1 8.00 mm	
L [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]
20	15	20	14	25	20	25	20	40	20	40	35	40	32
25	20	25	14	30	16	30	25	45	24	50	35	60	52
30	25	25	20	30	18	35	18	50	24	50	45	80	52
35	30	30	18	30	25	35	24	50	30	60	30	90	52
40	35	30	25	35	16	40	24	60	30	60	35	100	52
		35	18	35	18	45	24	60	35	70	30	100	60
		40	18	40	24	45	30	70	35	70	40	100	80
		45	24	45	24	50	24	70	40	80	40	120	52
		50	24	45	30	50	30	80	40	80	50	120	60
				50	24	60	30	80	50	90	40	120	80
				50	30	60	35	90	45	90	50	140	52
				60	30	70	35	90	55	90	55	140	60
				60	35	70	40	100	50	100	50	140	80
				70	35	80	40	100	60	100	60	160	80
				70	40			110	50	110	50	160	90
				80	40			110	55	110	60	160	100
								110	60	120	50	180	80
								120	50	120	60	180	90
								120	60	120	75	180	100
										130	50	200	80
										130	60	200	100
										130	75	220	80
										140	75	220	100
										140	80	240	80
										150	75	240	100
										150	80	260	80
										160	75	260	100
										160	90	280	80
										180	75	280	100
										180	100	300	80
										200	75	300	100
										200	100	300	120
										220	75	320	80
										220	100	320	100
										240	75	320	120
										240	100	340	80
										260	75	340	100
										260	100	340	120
										280	75	360	80
										280	100	360	100
										300	75	360	120
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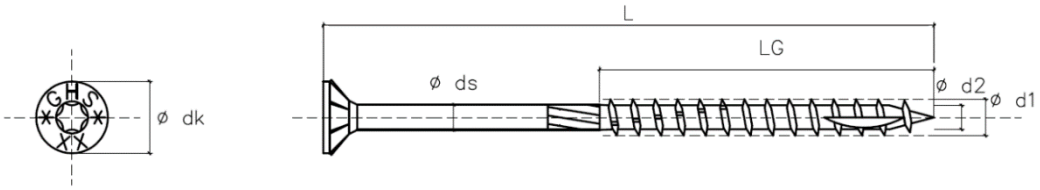
												400	120
												420	80
												420	100
												420	120
												440	100
												440	120
												450	100
												450	120
												460	100
												460	120
												480	100
												480	120
												500	100
												500	120

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws “GHS”

d_1 [mm]	3.00 ± 0.08	3.50 ± 0.09	4.00 ± 0.10	4.50 ± 0.11	5.00 ± 0.12	6.00 ± 0.15	8.00 ± 0.20	10.00 ± 0.25	12.00 ± 0.30
d_2 [mm]	2.00 ± 0.05	2.25 ± 0.05	2.55 ± 0.06	2.80 ± 0.07	3.40 ± 0.09	3.95 ± 0.10	5.40 ± 0.13	6.40 ± 0.16	6.80 ± 0.17
d_S [mm]	2.16 ± 0.05	2.45 ± 0.06	2.75 ± 0.07	3.15 ± 0.08	3.65 ± 0.09	4.30 ± 0.11	5.80 ± 0.14	7.00 ± 0.18	8.00 ± 0.20
d_K [mm]	6.00 ± 0.15	7.00 ± 0.18	8.00 ± 0.20	9.00 ± 0.23	10.00 ± 0.25	12.00 ± 0.30	14.50 ± 0.36	18.25 ± 0.46	20.75 ± 0.52



Shank Ribs Optional

d_1 3.00 mm		d_1 3.50 mm		d_1 4.00 mm		d_1 4.50 mm		d_1 5.00 mm		d_1 6.00 mm		d_1 8.00 mm		d_1 10.00 mm		d_1 12.00	
L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]
20	15	20	14	25	20	25	20	40	20	40	35	40	32	60	52	160	80
25	20	25	14	30	16	30	25	45	24	50	35	60	52	80	52	200	80
30	25	25	20	30	18	35	18	50	24	50	45	80	52	90	52	200	100
35	30	30	18	30	25	35	24	50	30	60	30	90	52	100	52	220	80
40	35	30	25	35	16	40	24	60	30	60	35	100	52	120	52	220	100
		35	18	35	18	45	24	60	35	70	30	100	60	120	60	240	80
		40	18	40	24	45	30	70	35	70	40	100	80	120	80	240	100
		45	24	45	24	50	24	70	40	80	40	120	52	140	52	260	80
		50	24	45	30	50	30	80	40	80	50	120	60	140	60	260	100
				50	24	60	30	80	50	90	40	120	80	140	80	280	80
				50	30	60	35	90	45	90	50	140	52	160	80	280	100
				60	30	70	35	90	55	90	55	140	60	180	80	300	80
				60	35	70	40	100	50	100	50	140	80	180	90	300	100
				70	35	80	40	100	60	100	60	160	80	200	80	300	120
				70	40			110	50	110	50	160	90	200	100	320	80
				80	40			110	55	110	60	160	100	220	80	320	100
								110	60	120	50	180	80	220	100	320	120
								120	50	120	60	180	90	240	80	340	80
								120	60	120	75	180	100	240	100	340	100
										130	50	200	80	260	80	340	120
										130	60	200	100	260	100	360	80
										130	75	220	80	280	80	360	100
										140	75	220	100	280	100	360	120
										140	80	240	80	300	80	380	80
										150	75	240	100	300	100	380	100
										150	80	260	80	300	120	380	120
										160	75	260	100	320	80	400	80
										160	90	280	80	320	100	400	100
										180	75	280	100	320	120	400	120
										180	100	300	80	340	80	440	100
										200	75	300	100	340	100	440	120
										200	100	300	120	340	120	480	100
										220	75	320	80	360	80	480	120
										220	100	320	100	360	100	500	100
										240	75	320	120	360	120	500	120
										240	100	340	80	380	80	520	100
										260	75	340	100	380	100	520	120
										260	100	340	120	380	120	540	100
										280	75	360	80	400	80	540	120
										280	100	360	100	400	100	550	100
										300	75	360	120	400	120	550	120
										300	100	380	80	420	80	560	100
												380	100	420	100	560	120
												380	120	420	120	600	100
												400	80	440	100	600	120
												400	100	440	120		
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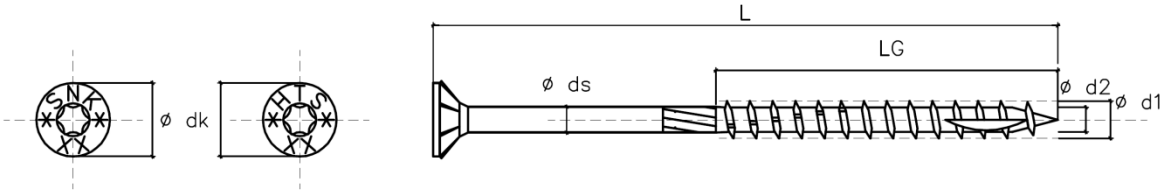
												420	80	450	120		
												420	100	460	100		
												420	120	460	120		
												440	100	480	100		
												440	120	480	120		
												450	100	500	100		
												450	120	500	120		
												460	100				
												460	120				
												480	100				
												480	120				
												500	100				
												500	120				

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "SENK" or "SNK" or "HTS"

d_1 [mm]	**3.00 ± 0.08**	**3.50 ± 0.09**	**4.00 ± 0.10**	**4.50 ± 0.11**	**5.00 ± 0.12**	**6.00 ± 0.15**	**8.00 ± 0.20**	**10.00 ± 0.25**	**12.00 ± 0.30**
d_2 [mm]	2.00 ± 0.05	2.25 ± 0.05	2.55 ± 0.06	2.80 ± 0.07	3.40 ± 0.09	3.95 ± 0.10	5.40 ± 0.13	6.40 ± 0.16	6.80 ± 0.17
d_S [mm]	2.16 ± 0.05	2.45 ± 0.06	2.75 ± 0.07	3.15 ± 0.08	3.65 ± 0.09	4.30 ± 0.11	5.80 ± 0.14	7.00 ± 0.18	8.00 ± 0.20
d_K [mm]	6.00 ± 0.15	7.00 ± 0.18	8.00 ± 0.20	9.00 ± 0.23	10.00 ± 0.25	12.00 ± 0.30	14.50 ± 0.36	18.25 ± 0.46	20.75 ± 0.52



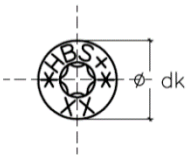
Shank Ribs and Carving Optional

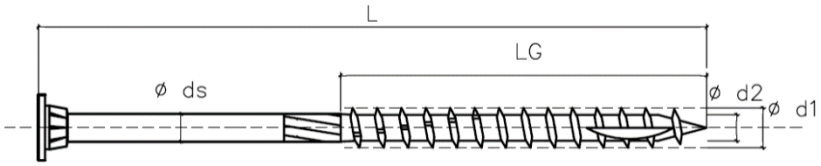
d_1 3.00 mm		d_1 3.50 mm		d_1 4.00 mm		d_1 4.50 mm		d_1 5.00 mm		d_1 6.00 mm		d_1 8.00 mm		d_1 10.00 mm		d_1 12.00	
L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]
20	15	20	14	25	20	25	20	40	20	40	35	40	32	60	52	160	80
25	20	25	14	30	16	30	25	45	24	50	35	60	52	80	52	200	80
30	25	25	20	30	18	35	18	50	24	50	45	80	52	90	52	200	100
35	30	30	18	30	25	35	24	50	30	60	30	90	52	100	52	220	80
40	35	30	25	35	16	40	24	60	30	60	35	100	52	120	52	220	100
		35	18	35	18	45	24	60	35	70	30	100	60	120	60	240	80
		40	18	40	24	45	30	70	35	70	40	100	80	120	80	240	100
		45	24	45	24	50	24	70	40	80	40	120	52	140	52	260	80
		50	24	45	30	50	30	80	40	80	50	120	60	140	60	260	100
				50	24	60	30	80	50	90	40	120	80	140	80	280	80
				50	30	60	35	90	45	90	50	140	52	160	80	280	100
				60	30	70	35	90	55	90	55	140	60	180	80	300	80
				60	35	70	40	100	50	100	50	140	80	180	90	300	100
				70	35	80	40	100	60	100	60	160	80	200	80	300	120
				70	40			110	50	110	50	160	90	200	100	320	80
				80	40			110	55	110	60	160	100	220	80	320	100
								110	60	120	50	180	80	220	100	320	120
								120	50	120	60	180	90	240	80	340	80
								120	60	120	75	180	100	240	100	340	100
										130	50	200	80	260	80	340	120
										130	60	200	100	260	100	360	80
										130	75	220	80	280	80	360	100
										140	75	220	100	280	100	360	120
										140	80	240	80	300	80	380	80
										150	75	240	100	300	100	380	100
										150	80	260	80	300	120	380	120
										160	75	260	100	320	80	400	80
										160	90	280	80	320	100	400	100
										180	75	280	100	320	120	400	120
										180	100	300	80	340	80	440	100
										200	75	300	100	340	100	440	120
										200	100	300	120	340	120	480	100
										220	75	320	80	360	80	480	120
										220	100	320	100	360	100	500	100
										240	75	320	120	360	120	500	120
										240	100	340	80	380	80	520	100
										260	75	340	100	380	100	520	120
										260	100	340	120	380	120	540	100
										280	75	360	80	400	80	540	120
										280	100	360	100	400	100	550	100
										300	75	360	120	400	120	550	120
										300	100	380	80	420	80	560	100
												380	100	420	100	560	120
												380	120	420	120	600	100
												400	80	440	100	600	120
												400	100	440	120		
												400	120	450	100		
												420	80	450	120		
												420	100	460	100		
												420	120	460	120		
												440	100	480	100		
												440	120	480	120		
												450	100	500	100		
												450	120	500	120		
												460	100				
												460	120				
												480	100				
												480	120				
												500	100				
												500	120				

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "HBS+"

d_1 [mm]	**4.00 ± 0.10**	**4.50 ± 0.11**	**5.00 ± 0.12**	**6.00 ± 0.15**	**8.00 ± 0.20**	**10.00 ± 0.25**	**12.00 ± 0.30**
d_2 [mm]	2.55 ± 0.06	2.80 ± 0.07	3.40 ± 0.09	3.95 ± 0.10	5.40 ± 0.13	6.40 ± 0.16	6.80 ± 0.17
d_S [mm]	2.75 ± 0.07	3.15 ± 0.08	3.65 ± 0.09	4.30 ± 0.11	5.80 ± 0.14	7.00 ± 0.18	8.00 ± 0.20
d_K [mm]	8.00 ± 0.20	9.00 ± 0.23	10.00 ± 0.25	12.00 ± 0.30	14.50 ± 0.36	18.25 ± 0.46	20.75 ± 0.52



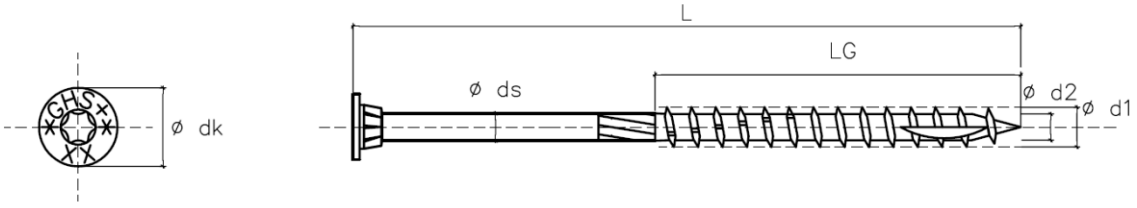


d_1 4.00 mm		d_1 4.50 mm		d_1 5.00 mm		d_1 6.00 mm		d_1 8.00 mm		d_1 10.00 mm		d_1 12.00	
L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]
25	20	25	20	40	20	40	35	40	32	60	52	160	80
30	16	30	25	45	24	50	35	60	52	80	52	200	80
30	18	35	18	50	24	50	45	80	52	90	52	200	100
30	25	35	24	50	30	60	30	90	52	100	52	220	80
35	16	40	24	60	30	60	35	100	52	120	52	220	100
35	18	45	24	60	35	70	30	100	60	120	60	240	80
40	24	45	30	70	35	70	40	100	80	120	80	240	100
45	24	50	24	70	40	80	40	120	52	140	52	260	80
45	30	50	30	80	40	80	50	120	60	140	60	260	100
50	24	60	30	80	50	90	40	120	80	140	80	280	80
50	30	60	35	90	45	90	50	140	52	160	80	280	100
60	30	70	35	90	55	90	55	140	60	180	80	300	80
60	35	70	40	100	50	100	50	140	80	180	90	300	100
70	35	80	40	100	60	100	60	160	80	200	80	300	120
70	40			110	50	110	50	160	90	200	100	320	80
80	40			110	55	110	60	160	100	220	80	320	100
				110	60	120	50	180	80	220	100	320	120
				120	50	120	60	180	90	240	80	340	80
				120	60	120	75	180	100	240	100	340	100
						130	50	200	80	260	80	340	120
						130	60	200	100	260	100	360	80
						130	75	220	80	280	80	360	100
						140	75	220	100	280	100	360	120
						140	80	240	80	300	80	380	80
						150	75	240	100	300	100	380	100
						150	80	260	80	300	120	380	120
						160	75	260	100	320	80	400	80
						160	90	280	80	320	100	400	100
						180	75	280	100	320	120	400	120
						180	100	300	80	340	80	440	100
						200	75	300	100	340	100	440	120
						200	100	300	120	340	120	480	100
						220	75	320	80	360	80	480	120
						220	100	320	100	360	100	500	100
						240	75	320	120	360	120	500	120
						240	100	340	80	380	80	520	100
						260	75	340	100	380	100	520	120
						260	100	340	120	380	120	540	100
						280	75	360	80	400	80	540	120
						280	100	360	100	400	100	550	100
						300	75	360	120	400	120	550	120
						300	100	380	80	420	80	560	100
								380	100	420	100	560	120
								380	120	420	120	600	100
								400	80	440	100	600	120
								400	100	440	120		
								400	120	450	100		
								420	80	450	120		
								420	100	460	100		
								420	120	460	120		
								440	100	480	100		
								440	120	480	120		
								450	100	500	100		
								450	120	500	120		
								460	100				
								460	120				
								480	100				
								480	120				
								500	100				
								500	120				

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "GHS+"

d_1 [mm]	**4.00 ± 0.10**	**4.50 ± 0.11**	**5.00 ± 0.12**	**6.00 ± 0.15**	**8.00 ± 0.20**	**10.00 ± 0.25**	**12.00 ± 0.30**
d_2 [mm]	2.55 ± 0.06	2.80 ± 0.07	3.40 ± 0.09	3.95 ± 0.10	5.40 ± 0.13	6.40 ± 0.16	6.80 ± 0.17
d_S [mm]	2.75 ± 0.07	3.15 ± 0.08	3.65 ± 0.09	4.30 ± 0.11	5.80 ± 0.14	7.00 ± 0.18	8.00 ± 0.20
d_K [mm]	8.00 ± 0.20	9.00 ± 0.23	10.00 ± 0.25	12.00 ± 0.30	14.50 ± 0.36	18.25 ± 0.46	20.75 ± 0.52

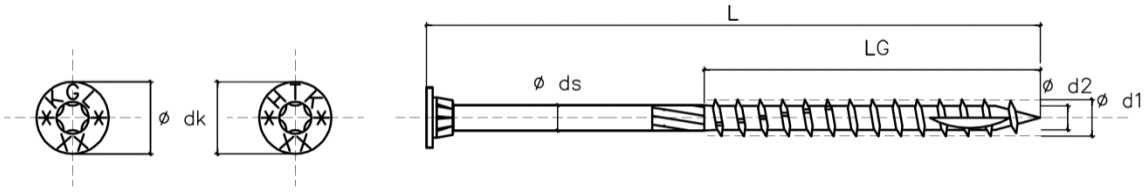


d_1 4.00 mm		d_1 4.50 mm		d_1 5.00 mm		d_1 6.00 mm		d_1 8.00 mm		d_1 10.00 mm		d_1 12.00	
L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]
25	20	25	20	40	20	40	35	40	32	60	52	160	80
30	16	30	25	45	24	50	35	60	52	80	52	200	80
30	18	35	18	50	24	50	45	80	52	90	52	200	100
30	25	35	24	50	30	60	30	90	52	100	52	220	80
35	16	40	24	60	30	60	35	100	52	120	52	220	100
35	18	45	24	60	35	70	30	100	60	120	60	240	80
40	24	45	30	70	35	70	40	100	80	120	80	240	100
45	24	50	24	70	40	80	40	120	52	140	52	260	80
45	30	50	30	80	40	80	50	120	60	140	60	260	100
50	24	60	30	80	50	90	40	120	80	140	80	280	80
50	30	60	35	90	45	90	50	140	52	160	80	280	100
60	30	70	35	90	55	90	55	140	60	180	80	300	80
60	35	70	40	100	50	100	50	140	80	180	90	300	100
70	35	80	40	100	60	100	60	160	80	200	80	300	120
70	40			110	50	110	50	160	90	200	100	320	80
80	40			110	55	110	60	160	100	220	80	320	100
				110	60	120	50	180	80	220	100	320	120
				120	50	120	60	180	90	240	80	340	80
				120	60	120	75	180	100	240	100	340	100
						130	50	200	80	260	80	340	120
						130	60	200	100	260	100	360	80
						130	75	220	80	280	80	360	100
						140	75	220	100	280	100	360	120
						140	80	240	80	300	80	380	80
						150	75	240	100	300	100	380	100
						150	80	260	80	300	120	380	120
						160	75	260	100	320	80	400	80
						160	90	280	80	320	100	400	100
						180	75	280	100	320	120	400	120
						180	100	300	80	340	80	440	100
						200	75	300	100	340	100	440	120
						200	100	300	120	340	120	480	100
						220	75	320	80	360	80	480	120
						220	100	320	100	360	100	500	100
						240	75	320	120	360	120	500	120
						240	100	340	80	380	80	520	100
						260	75	340	100	380	100	520	120
						260	100	340	120	380	120	540	100
						280	75	360	80	400	80	540	120
						280	100	360	100	400	100	550	100
						300	75	360	120	400	120	550	120
						300	100	380	80	420	80	560	100
								380	100	420	100	560	120
								380	120	420	120	600	100
								400	80	440	100	600	120
								400	100	440	120		
								400	120	450	100		
								420	80	450	120		
								420	100	460	100		
								420	120	460	120		
								440	100	480	100		
								440	120	480	120		
								450	100	500	100		
								450	120	500	120		
								460	100				
								460	120				
								480	100				
								480	120				
								500	100				
								500	120				

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "KEGEL" or "KGL" or "HTK"

d_1 [mm]	4.00 ± 0.10	4.50 ± 0.11	5.00 ± 0.12	6.00 ± 0.15	8.00 ± 0.20	10.00 ± 0.25	12.00 ± 0.30
d_2 [mm]	2.55 ± 0.06	2.80 ± 0.07	3.40 ± 0.09	3.95 ± 0.10	5.40 ± 0.13	6.40 ± 0.16	6.80 ± 0.17
d_S [mm]	2.75 ± 0.07	3.15 ± 0.08	3.65 ± 0.09	4.30 ± 0.11	5.80 ± 0.14	7.00 ± 0.18	8.00 ± 0.20
d_K [mm]	8.00 ± 0.20	9.00 ± 0.23	10.00 ± 0.25	12.00 ± 0.30	14.50 ± 0.36	18.25 ± 0.46	20.75 ± 0.52

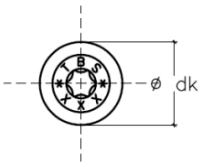


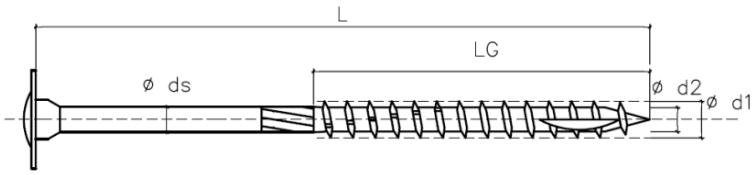
d_1 4.00 mm		d_1 4.50 mm		d_1 5.00 mm		d_1 6.00 mm		d_1 8.00 mm		d_1 10.00 mm		d_1 12.00	
L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]
25	20	25	20	40	20	40	35	40	32	60	52	160	80
30	16	30	25	45	24	50	35	60	52	80	52	200	80
30	18	35	18	50	24	50	45	80	52	90	52	200	100
30	25	35	24	50	30	60	30	90	52	100	52	220	80
35	16	40	24	60	30	60	35	100	52	120	52	220	100
35	18	45	24	60	35	70	30	100	60	120	60	240	80
40	24	45	30	70	35	70	40	100	80	120	80	240	100
45	24	50	24	70	40	80	40	120	52	140	52	260	80
45	30	50	30	80	40	80	50	120	60	140	60	260	100
50	24	60	30	80	50	90	40	120	80	140	80	280	80
50	30	60	35	90	45	90	50	140	52	160	80	280	100
60	30	70	35	90	55	90	55	140	60	180	80	300	80
60	35	70	40	100	50	100	50	140	80	180	90	300	100
70	35	80	40	100	60	100	60	160	80	200	80	300	120
70	40			110	50	110	50	160	90	200	100	320	80
80	40			110	55	110	60	160	100	220	80	320	100
				110	60	120	50	180	80	220	100	320	120
				120	50	120	60	180	90	240	80	340	80
				120	60	120	75	180	100	240	100	340	100
						130	50	200	80	260	80	340	120
						130	60	200	100	260	100	360	80
						130	75	220	80	280	80	360	100
						140	75	220	100	280	100	360	120
						140	80	240	80	300	80	380	80
						150	75	240	100	300	100	380	100
						150	80	260	80	300	120	380	120
						160	75	260	100	320	80	400	80
						160	90	280	80	320	100	400	100
						180	75	280	100	320	120	400	120
						180	100	300	80	340	80	440	100
						200	75	300	100	340	100	440	120
						200	100	300	120	340	120	480	100
						220	75	320	80	360	80	480	120
						220	100	320	100	360	100	500	100
						240	75	320	120	360	120	500	120
						240	100	340	80	380	80	520	100
						260	75	340	100	380	100	520	120
						260	100	340	120	380	120	540	100
						280	75	360	80	400	80	540	120
						280	100	360	100	400	100	550	100
						300	75	360	120	400	120	550	120
						300	100	380	80	420	80	560	100
								380	100	420	100	560	120
								380	120	420	120	600	100
								400	80	440	100	600	120
								400	100	440	120		
								400	120	450	100		
								420	80	450	120		
								420	100	460	100		
								420	120	460	120		
								440	100	480	100		
								440	120	480	120		
								450	100	500	100		
								450	120	500	120		
								460	100				
								460	120				
								480	100				
								480	120				
								500	100				
								500	120				

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "TBS"

d_1 [mm]	**6.00 ± 0.15**	**8.00 ± 0.20**	**8.00 ± 0.20**	**10.00 ± 0.25**
d_2 [mm]	3.95 ± 0.10	5.40 ± 0.13	5.40 ± 0.13	6.40 ± 0.16
d_S [mm]	4.30 ± 0.11	5.80 ± 0.14	5.80 ± 0.14	7.00 ± 0.18
d_K [mm]	15.50 ± 0.38	19.00 ± 0.47	22.00 ± 0.55	25.00 ± 0.62



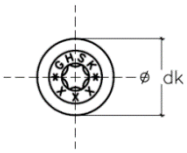


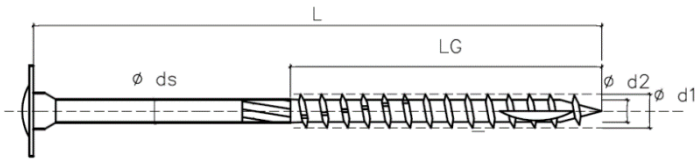
d_1 6.00 mm		d_1 8.00 mm		d_1 10.00 mm	
L [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]
40	35	40	32	60	52
50	35	60	52	80	52
50	45	80	52	90	52
60	30	90	52	100	52
60	35	100	52	120	52
70	30	100	60	120	60
70	40	100	80	120	80
80	40	120	52	140	52
80	50	120	60	140	60
90	40	120	80	140	80
90	50	140	52	160	80
90	55	140	60	180	80
100	50	140	80	180	90
100	60	160	80	200	80
110	50	160	90	200	100
110	60	160	100	220	80
120	50	180	80	220	100
120	60	180	90	240	80
120	75	180	100	240	100
130	50	200	80	260	80
130	60	200	100	260	100
130	75	220	80	280	80
140	75	220	100	280	100
140	80	240	80	300	80
150	75	240	100	300	100
150	80	260	80	300	120
160	75	260	100	320	80
160	90	280	80	320	100
180	75	280	100	320	120
180	100	300	80	340	80
200	75	300	100	340	100
200	100	300	120	340	120
220	75	320	80	360	80
220	100	320	100	360	100
240	75	320	120	360	120
240	100	340	80	380	80
260	75	340	100	380	100
260	100	340	120	380	120
280	75	360	80	400	80
280	100	360	100	400	100
300	75	360	120	400	120
300	100	380	80	420	80
		380	100	420	100
		380	120	420	120
		400	80	440	100
		400	100	440	120
		400	120	450	100
		420	80	450	120
		420	100	460	100
		420	120	460	120
		440	100	480	100
		440	120	480	120
		450	100	500	100
		450	120	500	120
		460	100		
		460	120		
		480	100		
		480	120		
		500	100		
		500	120		

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "GHSK"

d_1 [mm]	**6.00 ± 0.15**	**8.00 ± 0.20**	**8.00 ± 0.20**	**10.00 ± 0.25**
d_2 [mm]	3.95 ± 0.10	5.40 ± 0.13	5.40 ± 0.13	6.40 ± 0.16
d_S [mm]	4.30 ± 0.11	5.80 ± 0.14	5.80 ± 0.14	7.00 ± 0.18
d_K [mm]	15.50 ± 0.38	19.00 ± 0.47	22.00 ± 0.55	25.00 ± 0.62



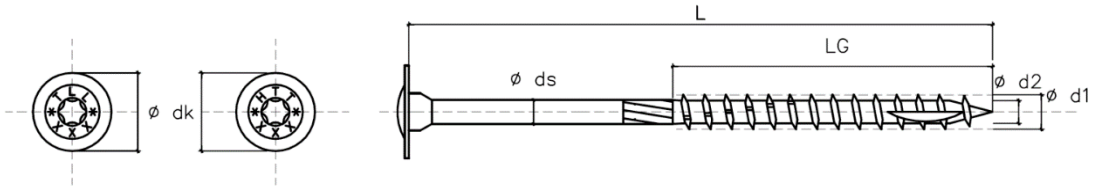


d_1 6.00 mm		**d_1 8.00 mm**		**d_1 10.00 mm**	
L [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]
40	35	40	32	60	52
50	35	60	52	80	52
50	45	80	52	90	52
60	30	90	52	100	52
60	35	100	52	120	52
70	30	100	60	120	60
70	40	100	80	120	80
80	40	120	52	140	52
80	50	120	60	140	60
90	40	120	80	140	80
90	50	140	52	160	80
90	55	140	60	180	80
100	50	140	80	180	90
100	60	160	80	200	80
110	50	160	90	200	100
110	60	160	100	220	80
120	50	180	80	220	100
120	60	180	90	240	80
120	75	180	100	240	100
130	50	200	80	260	80
130	60	200	100	260	100
130	75	220	80	280	80
140	75	220	100	280	100
140	80	240	80	300	80
150	75	240	100	300	100
150	80	260	80	300	120
160	75	260	100	320	80
160	90	280	80	320	100
180	75	280	100	320	120
180	100	300	80	340	80
200	75	300	100	340	100
200	100	300	120	340	120
220	75	320	80	360	80
220	100	320	100	360	100
240	75	320	120	360	120
240	100	340	80	380	80
260	75	340	100	380	100
260	100	340	120	380	120
280	75	360	80	400	80
280	100	360	100	400	100
300	75	360	120	400	120
300	100	380	80	420	80
		380	100	420	100
		380	120	420	120
		400	80	440	100
		400	100	440	120
		400	120	450	100
		420	80	450	120
		420	100	460	100
		420	120	460	120
		440	100	480	100
		440	120	480	120
		450	100	500	100
		450	120	500	120
		460	100		
		460	120		
		480	100		
		480	120		
		500	100		
		500	120		

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "TELLER" or "TLL" or "HTT"

d_1 [mm]	**6.00 ± 0.15**	**8.00 ± 0.20**	**8.00 ± 0.20**	**10.00 ± 0.25**
d_2 [mm]	3.95 ± 0.10	5.40 ± 0.13	5.40 ± 0.13	6.40 ± 0.16
d_S [mm]	4.30 ± 0.11	5.80 ± 0.14	5.80 ± 0.14	7.00 ± 0.18
d_K [mm]	15.50 ± 0.38	19.00 ± 0.47	22.00 ± 0.55	25.00 ± 0.62

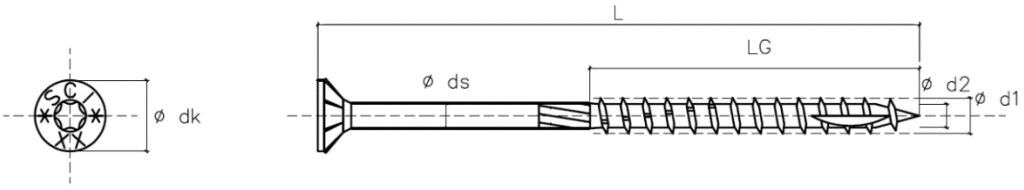


d_1 6.00 mm		d_1 8.00 mm		d_1 10.00 mm	
L [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]
40	35	40	32	60	52
50	35	60	52	80	52
50	45	80	52	90	52
60	30	90	52	100	52
60	35	100	52	120	52
70	30	100	60	120	60
70	40	100	80	120	80
80	40	120	52	140	52
80	50	120	60	140	60
90	40	120	80	140	80
90	50	140	52	160	80
90	55	140	60	180	80
100	50	140	80	180	90
100	60	160	80	200	80
110	50	160	90	200	100
110	60	160	100	220	80
120	50	180	80	220	100
120	60	180	90	240	80
120	75	180	100	240	100
130	50	200	80	260	80
130	60	200	100	260	100
130	75	220	80	280	80
140	75	220	100	280	100
140	80	240	80	300	80
150	75	240	100	300	100
150	80	260	80	300	120
160	75	260	100	320	80
160	90	280	80	320	100
180	75	280	100	320	120
180	100	300	80	340	80
200	75	300	100	340	100
200	100	300	120	340	120
220	75	320	80	360	80
220	100	320	100	360	100
240	75	320	120	360	120
240	100	340	80	380	80
260	75	340	100	380	100
260	100	340	120	380	120
280	75	360	80	400	80
280	100	360	100	400	100
300	75	360	120	400	120
300	100	380	80	420	80
		380	100	420	100
		380	120	420	120
		400	80	440	100
		400	100	440	120
		400	120	450	100
		420	80	450	120
		420	100	460	100
		420	120	460	120
		440	100	480	100
		440	120	480	120
		450	100	500	100
		450	120	500	120
		460	100		
		460	120		
		480	100		
		480	120		
		500	100		
		500	120		

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "SCI"

d_1 [mm]	**3.50 ± 0.09**	**4.00 ± 0.10**	**4.50 ± 0.11**	**5.00 ± 0.12**	**6.00 ± 0.15**	**8.00 ± 0.20**
d_2 [mm]	2.25 ± 0.05	2.55 ± 0.06	2.80 ± 0.07	3.40 ± 0.09	3.95 ± 0.10	5.40 ± 0.13
d_S [mm]	2.45 ± 0.06	2.75 ± 0.07	3.15 ± 0.08	3.65 ± 0.09	4.30 ± 0.11	5.80 ± 0.14
d_K [mm]	7.00 ± 0.18	8.00 ± 0.20	9.00 ± 0.23	10.00 ± 0.25	12.00 ± 0.30	14.50 ± 0.36

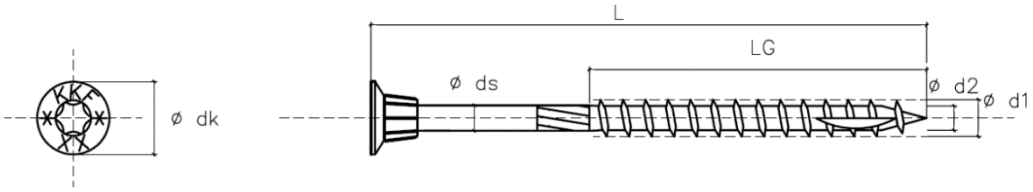


d_1 3.50 mm		d_1 4.00 mm		d_1 4.50 mm		d_1 5.00 mm		d_1 6.00 mm		d_1 8.00 mm	
L [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]
20	14	20	15	35	24	40	20	60	30	40	32
25	14	30	16	35	30	45	24	70	30	60	52
30	18	35	16	40	24	50	24	70	40	80	52
35	18	40	24	45	24	60	30	80	40	100	52
40	18	45	24	50	24	70	35	90	40	100	80
45	24	50	24	60	30	80	40	100	50	120	52
50	24	60	30	70	35	90	45	110	50	120	80
		70	35	80	40	100	50	120	50	140	52
		80	40			120	50	120	60	140	80
								130	50	160	80
								140	75	180	80
								150	75	180	90
								160	75	200	80
								180	75	200	100
								200	75	220	80
								220	75	220	100
								240	75	240	80
								260	75	240	100
								280	75	260	80
								300	75	260	100
										280	80
										280	100

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "KKF"

d_1 [mm]	**4.00 ± 0.10**	**4.50 ± 0.11**	**5.00 ± 0.12**	**6.00 ± 0.15**
d_2 [mm]	2.60 ± 0.06	3.05 ± 0.08	3.25 ± 0.08	4.05 ± 0.10
d_S [mm]	2.90 ± 0.07	3.35 ± 0.08	3.60 ± 0.09	4.30 ± 0.11
d_K [mm]	7.80 ± 0.20	8.80 ± 0.22	9.80 ± 0.25	11.80 ± 0.29



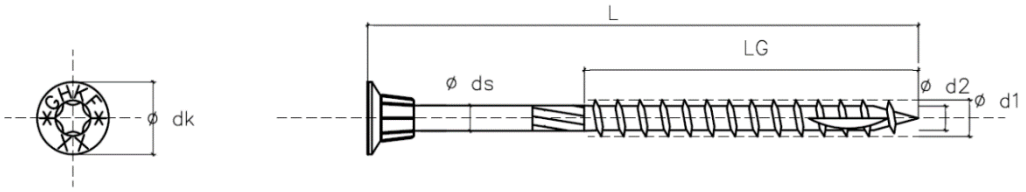
Milling Ribs Optional

d_1 4.00 mm		d_1 4.50 mm		d_1 5.00 mm		d_1 6.00 mm	
L [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]
30	16	35	20	40	20	60	30
30	18	35	24	40	24	70	30
35	16	40	20	45	24	70	40
35	20	40	24	45	30	80	40
35	24	45	24	50	24	80	50
40	20	45	25	50	30	90	40
40	24	45	30	60	30	90	50
45	24	50	24	60	35	90	55
45	25	50	25	70	35	100	50
45	30	50	30	70	40	100	60
50	24	60	30	80	40	110	50
50	25	60	35	80	50	120	50
50	30	70	35	90	45	120	75
60	30	70	40	90	50	130	50
70	35	80	40	90	55	130	75
80	40			100	50	140	75
				100	60	140	80
				120	50	150	75
				120	60	150	80
						160	75
						160	90
						180	75
						180	100
						200	75
						200	100
						220	75
						220	100
						240	75
						240	100
						260	75
						260	100
						280	75
						280	100
						300	75
						300	100

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "GHKF"

d_1 [mm]	4.00 ± 0.10	4.50 ± 0.11	5.00 ± 0.12	6.00 ± 0.15
d_2 [mm]	2.60 ± 0.06	3.05 ± 0.08	3.25 ± 0.08	4.05 ± 0.10
d_S [mm]	2.90 ± 0.07	3.35 ± 0.08	3.60 ± 0.09	4.30 ± 0.11
d_K [mm]	7.80 ± 0.20	8.80 ± 0.22	9.80 ± 0.25	11.80 ± 0.29



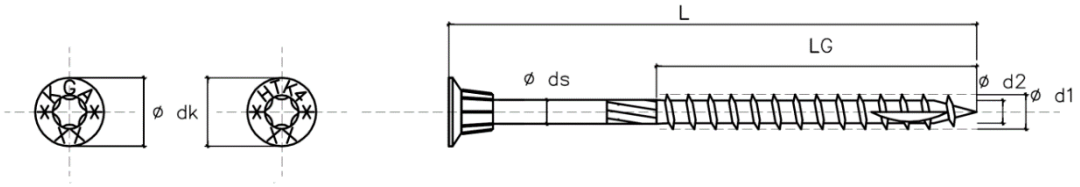
Milling Ribs Optional

d_1 4.00 mm		d_1 4.50 mm		d_1 5.00 mm		d_1 6.00 mm	
L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]
30	16	35	20	40	20	60	30
30	18	35	24	40	24	70	30
35	16	40	20	45	24	70	40
35	20	40	24	45	30	80	40
35	24	45	24	50	24	80	50
40	20	45	25	50	30	90	40
40	24	45	30	60	30	90	50
45	24	50	24	60	35	90	55
45	25	50	25	70	35	100	50
45	30	50	30	70	40	100	60
50	24	60	30	80	40	110	50
50	25	60	35	80	50	120	50
50	30	70	35	90	45	120	75
60	30	70	40	90	50	130	50
70	35	80	40	90	55	130	75
80	40			100	50	140	75
				100	60	140	80
				120	50	150	75
				120	60	150	80
						160	75
						160	90
						180	75
						180	100
						200	75
						200	100
						220	75
						220	100
						240	75
						240	100
						260	75
						260	100
						280	75
						280	100
						300	75
						300	100

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "KEGEL410" or "KGA" or "HTK4"

d_1 [mm]	4.00 ± 0.10	4.50 ± 0.11	5.00 ± 0.12	6.00 ± 0.15
d_2 [mm]	2.60 ± 0.06	3.05 ± 0.08	3.25 ± 0.08	4.05 ± 0.10
d_S [mm]	2.90 ± 0.07	3.35 ± 0.08	3.60 ± 0.09	4.30 ± 0.11
d_K [mm]	7.80 ± 0.20	8.80 ± 0.22	9.80 ± 0.25	11.80 ± 0.29



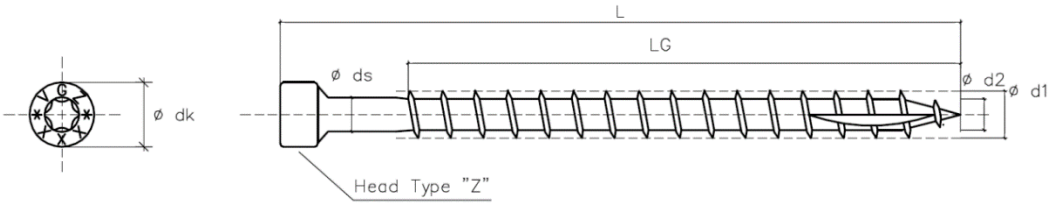
Milling Ribs Optional

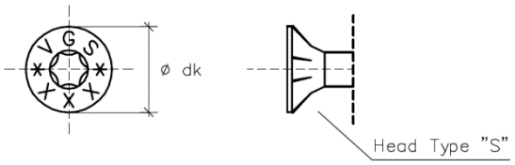
d_1 4.00 mm		d_1 4.50 mm		d_1 5.00 mm		d_1 6.00 mm	
L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]	L [mm]	L_G [mm]
30	16	35	20	40	20	60	30
30	18	35	24	40	24	70	30
35	16	40	20	45	24	70	40
35	20	40	24	45	30	80	40
35	24	45	24	50	24	80	50
40	20	45	25	50	30	90	40
40	24	45	30	60	30	90	50
45	24	50	24	60	35	90	55
45	25	50	25	70	35	100	50
45	30	50	30	70	40	100	60
50	24	60	30	80	40	110	50
50	25	60	35	80	50	120	50
50	30	70	35	90	45	120	75
60	30	70	40	90	50	130	50
70	35	80	40	90	55	130	75
80	40			100	50	140	75
				100	60	140	80
				120	50	150	75
				120	60	150	80
						160	75
						160	90
						180	75
						180	100
						200	75
						200	100
						220	75
						220	100
						240	75
						240	100
						260	75
						260	100
						280	75
						280	100
						300	75
						300	100

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "VGZ" and "VGS"

d_1 [mm]	**7.00 ± 0.17**	**9.00 ± 0.22**	**11.00 ± 0.27**
d_2 [mm]	4.60 ± 0.11	5.90 ± 0.15	6.60 ± 0.17
d_S [mm]	5.00 ± 0.12	6.50 ± 0.16	7.70 ± 0.19
d_K [mm] Type **Z**	9.50 ± 0.24	11.50 ± 0.29	13.50 ± 0.34
d_K [mm] Type **S**	13.00 ± 0.32	16.00 ± 0.40	19.30 ± 0.48



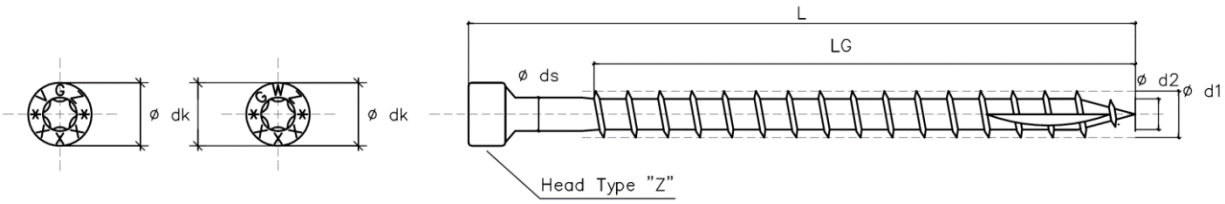


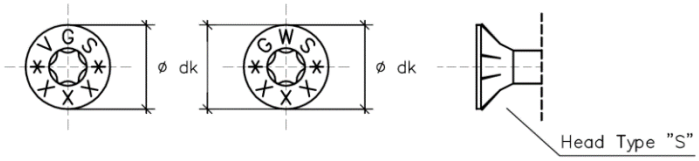
d_1 7.00 mm		d_1 9.00 mm		d_1 11.00 mm	
L [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]
100	80	140	120	100	80
100	90	140	130	100	90
120	100	160	140	125	105
120	110	160	150	125	115
140	120	180	160	150	130
140	130	180	170	150	140
160	140	200	180	175	155
160	150	200	190	175	165
180	160	220	200	200	180
180	170	220	210	200	190
200	180	240	220	220	200
200	190	240	230	220	210
220	200	260	240	240	220
220	210	260	250	240	230
240	220	280	260	250	230
240	230	280	270	250	240
260	240	300	280	260	240
260	250	300	290	260	250
280	260	320	300	280	260
280	270	320	310	280	270
300	280	340	300	300	280
300	290	340	320	300	290
320	300	360	320	325	305
320	310	360	340	325	315
340	300	380	340	350	330
340	320	380	360	375	355
360	320	400	360	400	380
360	340	400	380	425	405
380	340	425	385	450	430
380	360	425	405	475	455
400	360	450	410	500	480
400	380	450	430	525	505
		475	435	550	530
		475	455	575	555
		500	460	600	580
		500	480		

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "GWZ" and "GWS"

d_1 [mm]	**7.00 ± 0.17**	**9.00 ± 0.22**	**11.00 ± 0.27**
d_2 [mm]	4.60 ± 0.11	5.90 ± 0.15	6.60 ± 0.17
d_S [mm]	5.00 ± 0.12	6.50 ± 0.16	7.70 ± 0.19
d_K [mm] Type **Z**	9.50 ± 0.24	11.50 ± 0.29	13.50 ± 0.34
d_K [mm] Type **S**	13.00 ± 0.32	16.00 ± 0.40	19.30 ± 0.48



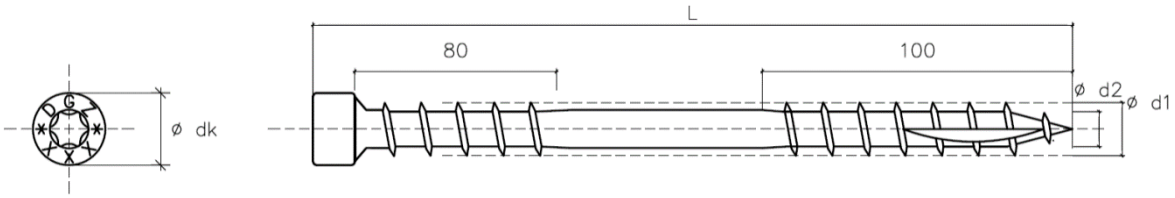


d_1 7.00 mm		d_1 9.00 mm		d_1 11.00 mm	
L [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]	**L** [mm]	**L_G** [mm]
100	80	140	120	100	80
100	90	140	130	100	90
120	100	160	140	125	105
120	110	160	150	125	115
140	120	180	160	150	130
140	130	180	170	150	140
160	140	200	180	175	155
160	150	200	190	175	165
180	160	220	200	200	180
180	170	220	210	200	190
200	180	240	220	220	200
200	190	240	230	220	210
220	200	260	240	240	220
220	210	260	250	240	230
240	220	280	260	250	230
240	230	280	270	250	240
260	240	300	280	260	240
260	250	300	290	260	250
280	260	320	300	280	260
280	270	320	310	280	270
300	280	340	300	300	280
300	290	340	320	300	290
320	300	360	320	325	305
320	310	360	340	325	315
340	300	380	340	350	330
340	320	380	360	375	355
360	320	400	360	400	380
360	340	400	380	425	405
380	340	425	385	450	430
380	360	425	405	475	455
400	360	450	410	500	480
400	380	450	430	525	505
		475	435	550	530
		475	455	575	555
		500	460	600	580
		500	480		

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "DGZ"

d_1 [mm]	**7.00 ± 0.17**	**9.00 ± 0.22**
d_2 [mm]	4.60 ± 0.11	5.90 ± 0.15
d_S [mm]	5.00 ± 0.12	6.50 ± 0.16
d_K [mm]	9.50 ± 0.24	11.50 ± 0.29

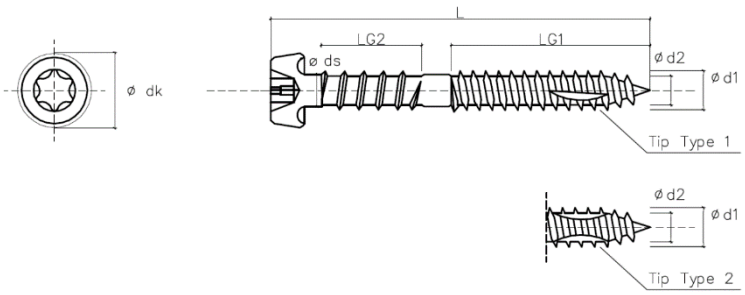


d_1 7.00 mm	**d_1 9.00 mm**
L [mm]	**L** [mm]
220	220
240	240
260	260
280	280
300	300
320	320
340	340
360	360
380	380
400	400
	420
	440
	450
	460
	480
	500

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "KKT"

d_1 [mm]	**5.00 ± 0.12**	**6.00 ± 0.15**
d_2 [mm]	3.10 ± 0.08	3.90 ± 0.10
d_S [mm]	3.80 ± 0.10	4.50 ± 0.11
d_K [mm]	6.75 ± 0.14	7.75 ± 0.16

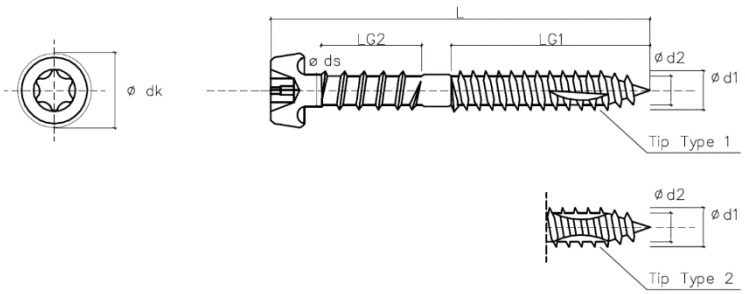


d_1 5.00 mm			**d_1 6.00 mm**		
L [mm]	**L_{G1}** [mm]	**L_{G2}** [mm]	**L** [mm]	**L_{G1}** [mm]	**L_{G2}** [mm]
40	24	10	60	42	12
45	29	10	80	50	16
50	34	10	100	50	16
55	37	12	120	60	26
60	42	12			
65	47	12			
70	52	12			
80	52	12			

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "MNA/MNB/MNG"

d_1 [mm]	**5.00 ± 0.12**	**6.00 ± 0.15**
d_2 [mm]	3.10 ± 0.08	3.90 ± 0.10
d_S [mm]	3.80 ± 0.10	4.50 ± 0.11
d_K [mm]	6.75 ± 0.14	7.75 ± 0.16

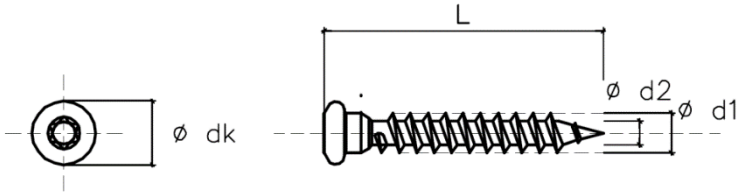


d_1 5.00 mm			**d_1 6.00 mm**		
L [mm]	**L_{G1}** [mm]	**L_{G2}** [mm]	**L** [mm]	**L_{G1}** [mm]	**L_{G2}** [mm]
40	24	10	60	42	12
45	29	10	80	50	16
50	34	10	100	50	16
55	37	12	120	60	26
60	42	12			
65	47	12			
70	52	12			
80	52	12			

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "LBS"

d_1 [mm]	**5.00 ± 0.13**
d_2 [mm]	3.00 ± 0.10
d_K [mm]	7.80 ± 0.20

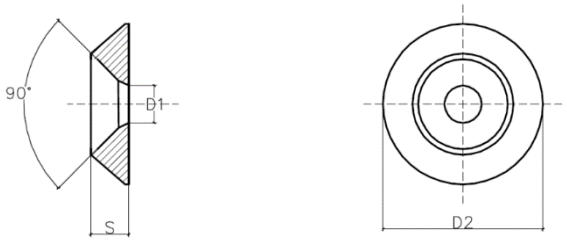


d_1 5.00 mm
L [mm]
25
40
50
60
70

Tolerance (L and L_G): + 2.00 mm - 1.00 mm / All specification in [mm] / Intermediate length (L) and thread length (L_G) are possible.

Rotho Blaas Screws "HUS", "SCB, "SHT", "SUS"

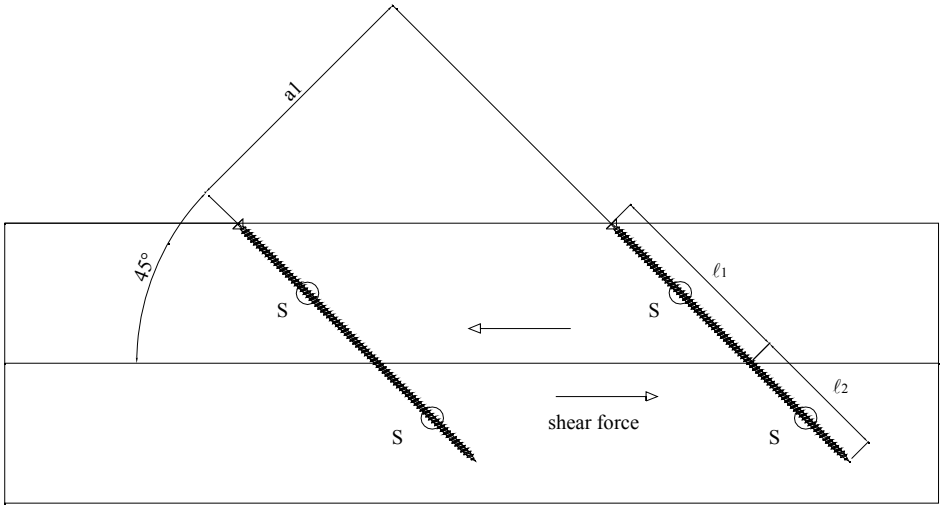
$d_{1\ SCREW}$	6.00	8.00	10.00	12.00
D_1 [mm]	7.50 ± 0.19	8.50 ± 0.21	11.00 ± 0.28	14.00 ± 0.35
D_2 [mm]	20.00 ± 0.50	25.00 ± 0.63	32.00 ± 0.80	37.00 ± 0.93
S [mm]	4.00 ± 0.10	5.00 ± 0.13	6.00 ± 0.15	7.50 ± 0.19

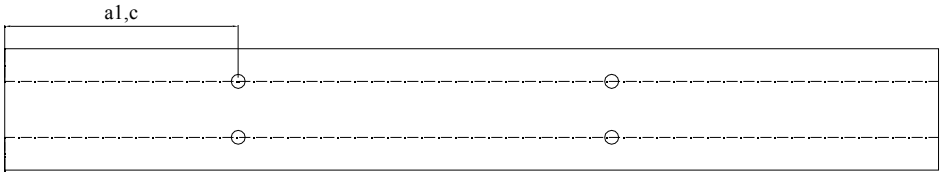


All specification in [mm] / Intermediate size are possible. / Material: carbon steel or stainless steel

Annex B
Minimum distances and spacing

Axially loaded screws
Single configuration



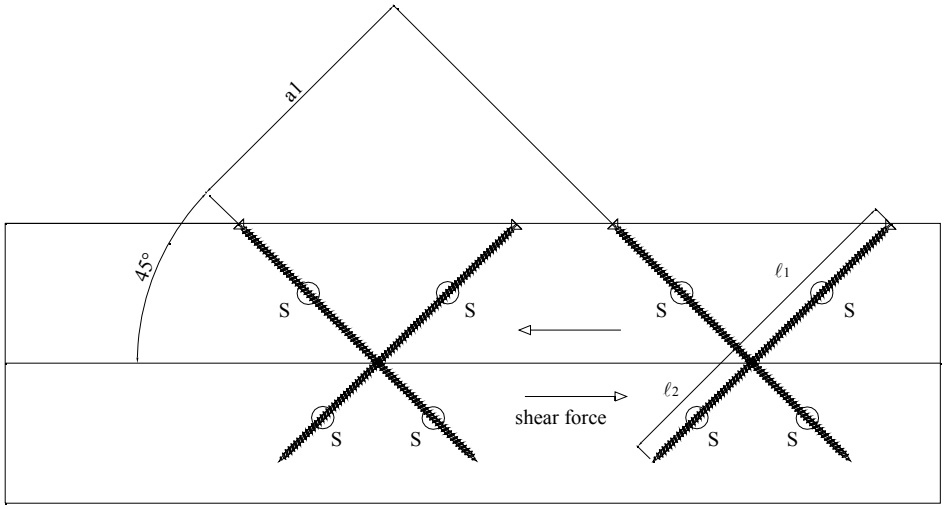


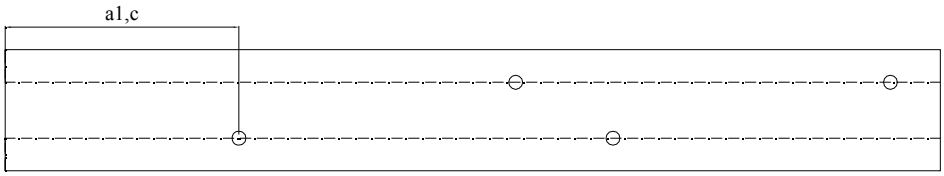
$a_1 \geq 5 \cdot d$
$a_2 \geq 2{,}5 \cdot d$ if $a_1 \cdot a_2 \geq 25 \cdot d^2$
$a_{3,c} \geq 10 \cdot d$
$a_{4,c} \geq 4 \cdot d$

Minimum distances and spacing see also 4.2
Minimum timber thickness $t = 12 \cdot d$, see also 4.2

S = centroid of the part of the screw in the timber

Axially loaded screws
Crosswise configuration





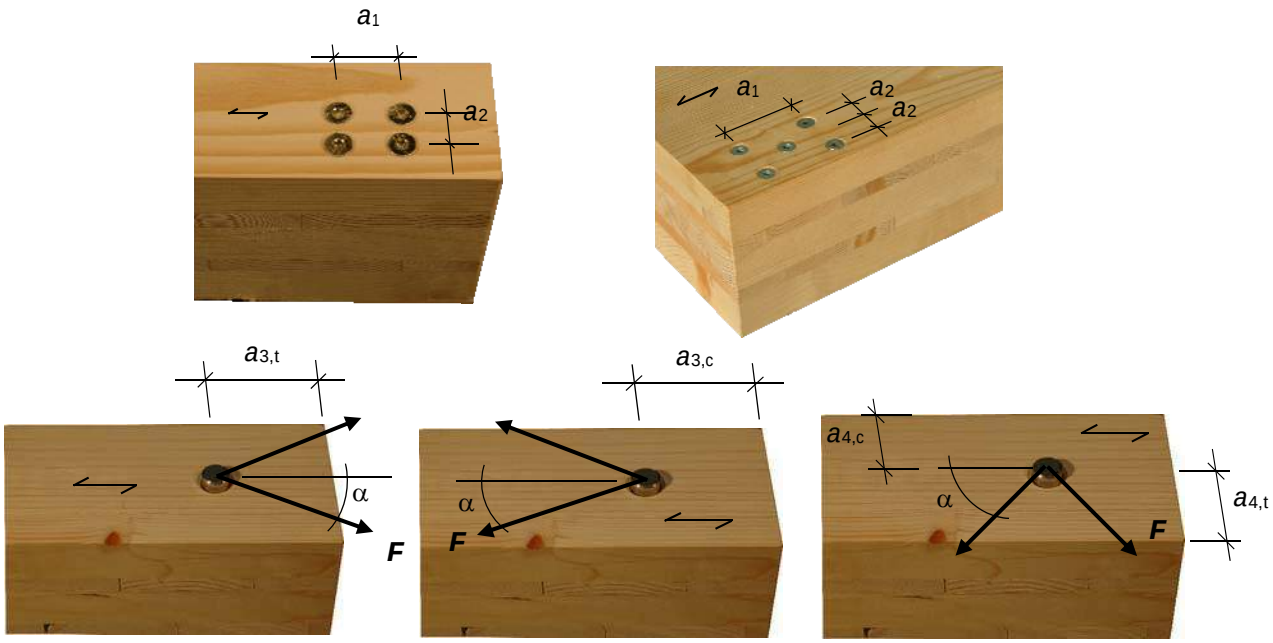
$a_1 \geq 5 \cdot d$
$a_2 \geq 1{,}5 \cdot d$ if $a_1 \cdot a_2 \geq 25 \cdot d^2$
$a_{3,c} \geq 10 \cdot d$
$a_{4,c} \geq 4 \cdot d$

Minimum distances and spacing see also 4.2
Minimum timber thickness $t = 12 \cdot d$, see also 4.2

S = centroid of the part of the screw in the timber

Axially or laterally loaded screws in the plane or edge surface of cross laminated timber

Definition of spacing, end and edge distances in the plane surface unless otherwise specified in the technical specification (ETA or hEN) for the cross laminated timber:



Definition of spacing, end and edge distances in the edge surface unless otherwise specified in the technical specification (ETA or hEN) for the cross laminated timber:

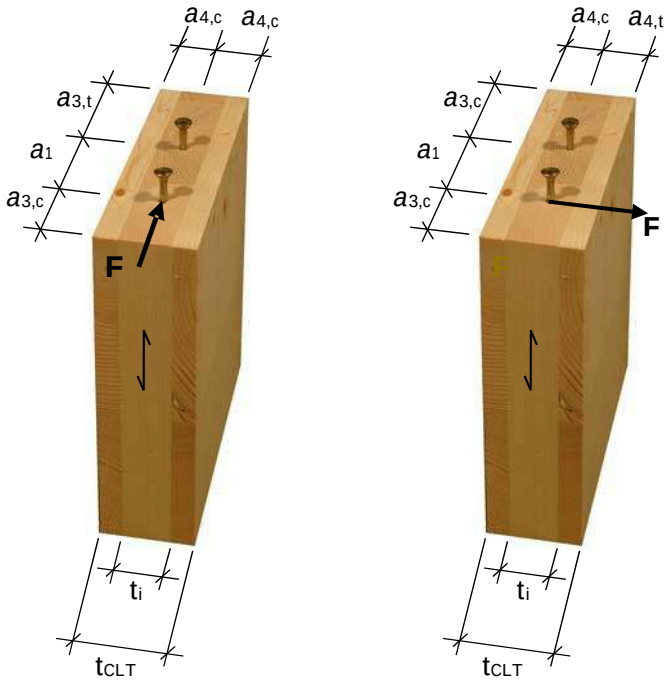
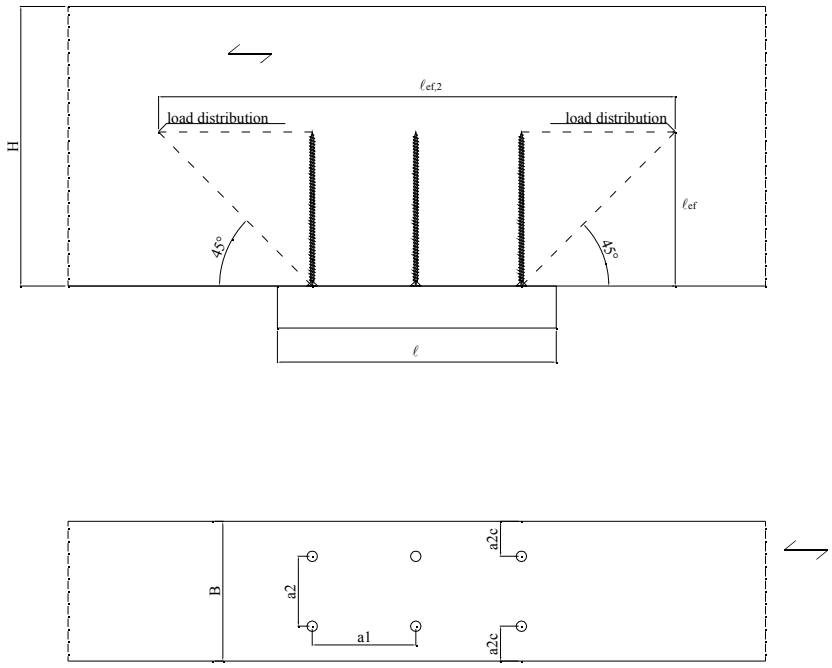


Table B1: Minimum spacing, end and edge distances of screws in the plane or edge surfaces of cross laminated timber

	a_1	$a_{3,t}$	$a_{3,c}$	a_2	$a_{4,t}$	$a_{4,c}$
Plane surface (see Figure 1)	4 · d	6 · d	6 · d	2,5 · d	6 · d	2,5 · d
Edge surface (see Figure 2)	10 · d	12 · d	7 · d	4 · d	6 · d	3 · d

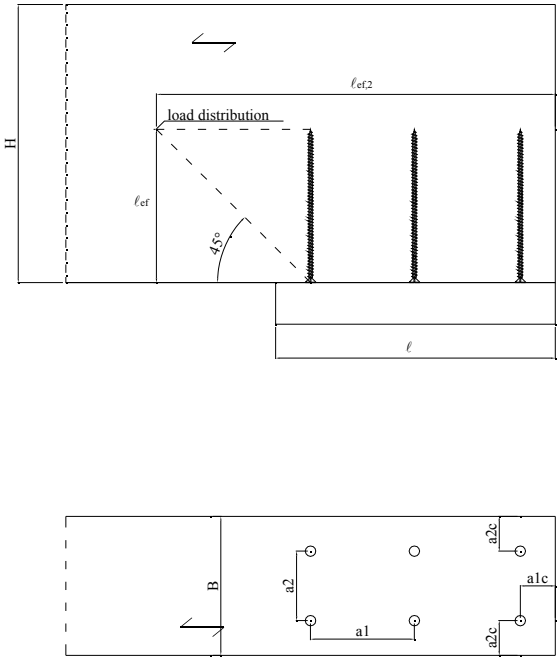
Annex C
Compression reinforcement

Reinforced centre-bearing



H component height [mm]
B bearing width [mm]
ℓ_{ef} point side penetration length [mm]
$\ell_{ef,2}$ effective distribution length in the plane of the screw tips [mm]
$= 2 \cdot \ell_{ef} + (n_0 - 1) \cdot a_1$ for centre-bearings

Reinforced end-bearing



H component height [mm]
B bearing width [mm]
ℓ_{ef} point side penetration length [mm]
$\ell_{ef,2}$ effective distribution length in the plane of the screw tips [mm]
$= \ell_{ef} + (n_0 - 1) \cdot a_1 + \min(\ell_{ef}; a_{1,c})$ for end-bearings

Annex D
Thermal insulation material on top of rafters or facades

Rotho Blaas screws with an outer thread diameter of at least 6 mm may also be used for the fixing of thermal insulation on top of rafters.

The thickness of the insulation shall not exceed 300 mm. The rafter insulation must be placed on top of solid timber or glued laminated timber rafters and be fixed by battens arranged parallel to the rafters or by wood-based panels on top of the insulation layer. The insulation of vertical facades is also covered by the rules given here.

Screws must be screwed in the rafter through the battens or panels and the insulation without pre-drilling in one sequence.

The angle α between the screw axis and the grain direction of the rafter should be between 30° and 90°.

The rafter consists of solid timber (softwood) according to EN 338, glued laminated timber according to EN 14081, cross-laminated timber, or laminated veneer lumber according to EN 14374 or to ETA or similar glued members according to ETA.

The battens must be from solid timber (softwood) according to EN 338:2003-04. The minimum thickness t and the minimum width b of the battens is given as follows:

Screws $d \leq 8$ mm:	$b_{min} = 50$ mm	$t_{min} = 30$ mm
Screws $9 \leq d \leq 10$ mm:	$b_{min} = 60$ mm	$t_{min} = 40$ mm
Screws $d = 11$ mm:	$b_{min} = 80$ mm	$t_{min} = 60$ mm
Screws $d = 12$ mm:	$b_{min} = 100$ mm	$t_{min} = 80$ mm

The insulation must comply with a ETA.

Friction forces shall not be considered for the design of the characteristic axial capacity of the screws.

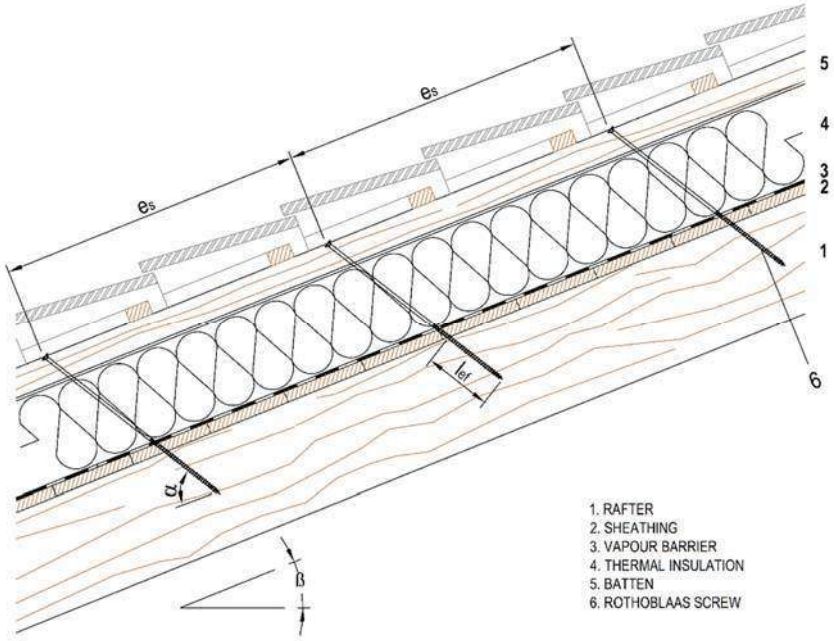
The anchorage of wind suction forces as well as the bending stresses of the battens or the boards, respectively, shall be considered in design. Additional screws perpendicular to the grain of the rafter (angle $\alpha = 90°$) may be arranged if necessary.

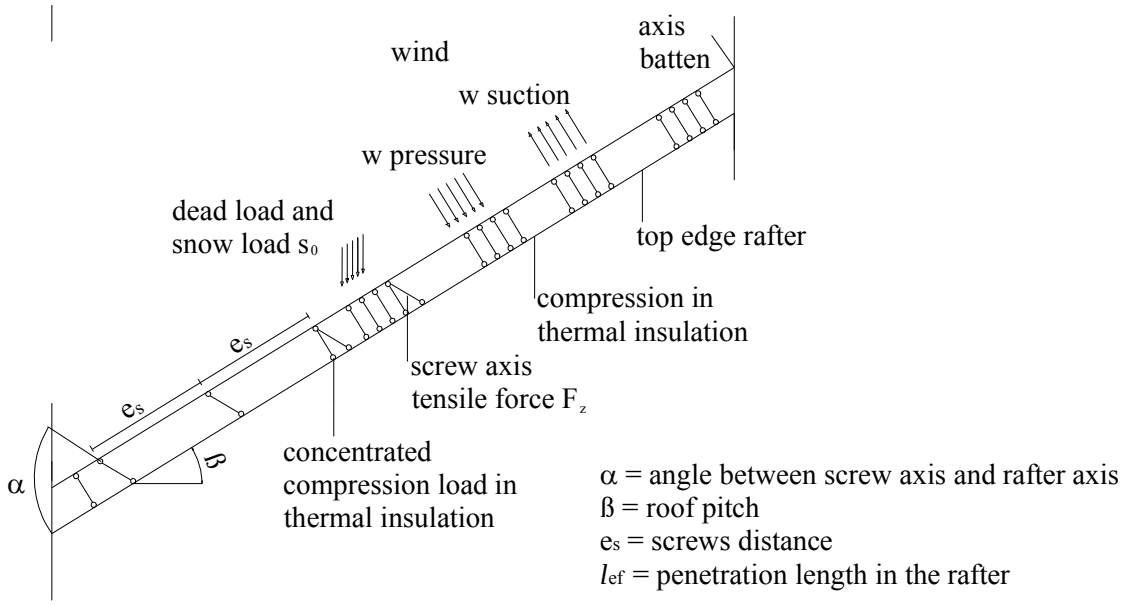
The maximum screw spacing is $e_S = 1{,}75$ m.

Thermal insulation on rafters with parallel inclined screws

Mechanical model

The system of rafter, thermal insulation material on top of rafter and battens parallel to the rafter may be considered as a beam on elastic foundation. The batten represents the beam, and the thermal insulation material on top of the rafter the elastic foundation. The minimum compression stress of the thermal insulation material at 10 % deformation, measured according to EN 826 (1), shall be $\sigma_{(10\,\%)}$ = 0,05 N/mm². The batten is loaded perpendicular to the axis by point loads F_b. Further point loads F_s are from the shear load of the roof due to dead and snow load, which are transferred from the screw heads into the battens.





(1) EN 826:1996 Thermal insulating products for building applications - Determination of compression behaviour

Design of the battens

The bending stresses are calculated as:

$$M = \frac{(F_b + F_s) \cdot \ell_{char}}{4}$$

where

ℓ_{char} = characteristic length $\ell_{char} = \sqrt[4]{\frac{4 \cdot EI}{w_{ef} \cdot K}}$

EI = bending stiffness of the batten
K = coefficient of subgrade
w_{ef} = effective width of the thermal insulation material
F_b = point loads perpendicular to the battens
F_s = point loads perpendicular to the battens, load application in the area of the screw heads

The coefficient of subgrade K may be calculated from the modulus of elasticity E_{HI} and the thickness t_{HI} of the thermal insulation material if the effective width w_{ef} of the thermal insulation material under compression is known. Due to the load extension in the thermal insulation material the effective width w_{ef} is greater than the width of the batten or rafter, respectively. For further calculations, the effective width w_{ef} of the thermal insulation material may be determined according to:

$$w_{ef} = w + t_{HI} / 2$$

where
w = minimum width of the batten or rafter, respectively
t_{HI} = thickness of the thermal insulation material

$$K = \frac{E_{HI}}{t_{HI}}$$

The following condition shall be satisfied:

$$\frac{\sigma_{m,d}}{f_{m,d}} = \frac{M_d}{W \cdot f_{m,d}} \le 1$$

For the calculation of the section modulus W the net cross section has to be considered.

The shear stresses shall be calculated according to:

$$V = \frac{(F_b + F_s)}{2}$$

The following condition shall be satisfied:

$$\frac{\tau_d}{f_{v,d}} = \frac{1,5 \cdot V_d}{A \cdot f_{v,d}} \le 1$$

For the calculation of the cross section area the net cross section has to be considered.

Design of the thermal insulation material

The compressive stresses in the thermal insulation material shall be calculated according to:

$$\sigma = \frac{1,5 \cdot F_b + F_s}{2 \cdot \ell_{char} \cdot w}$$

The design value of the compressive stress shall not be greater than 110 % of the compressive stress at 10 % deformation calculated according to EN 826.

Design of the screws

The screws are loaded predominantly axially. The axial tension force in the screw may be calculated from the shear loads of the roof R_s:

$$T_S = \frac{R_S}{\cos\alpha}$$

The load-carrying capacity of axially loaded screws is the minimum design value of the axial withdrawal capacity of the threaded part of the screw, the head pull-through capacity of the screw and the tensile capacity of the screw.

In order to limit the deformation of the screw head for thermal insulation material thicknesses over 200 mm or with compressive strength below 0,12 N/mm², respectively, the axial withdrawal capacity of the screws shall be reduced by the factors k_1 and k_2:

- for “HBS”, “HBS+”, “TBS”, “KKF”, “SCI” screws with partial thread:

$$F_{ax,\alpha,Rd} = \min\left\{\frac{f_{ax,d}\cdot d\cdot \ell_{ef}\cdot k_1\cdot k_2}{1.2\cdot\cos^2\alpha+\sin^2\alpha}\cdot\left(\frac{\rho_k}{350}\right)^{0.8};\ f_{head,d}\cdot d_h^2\cdot\left(\frac{\rho_k}{350}\right)^{0.8};\ \frac{f_{tens,k}}{\gamma_{M2}}\right\}$$

- for “DGZ”, “VGS”, “GWZ”, “GWS”, “VGZ” screws with full thread or double thread:

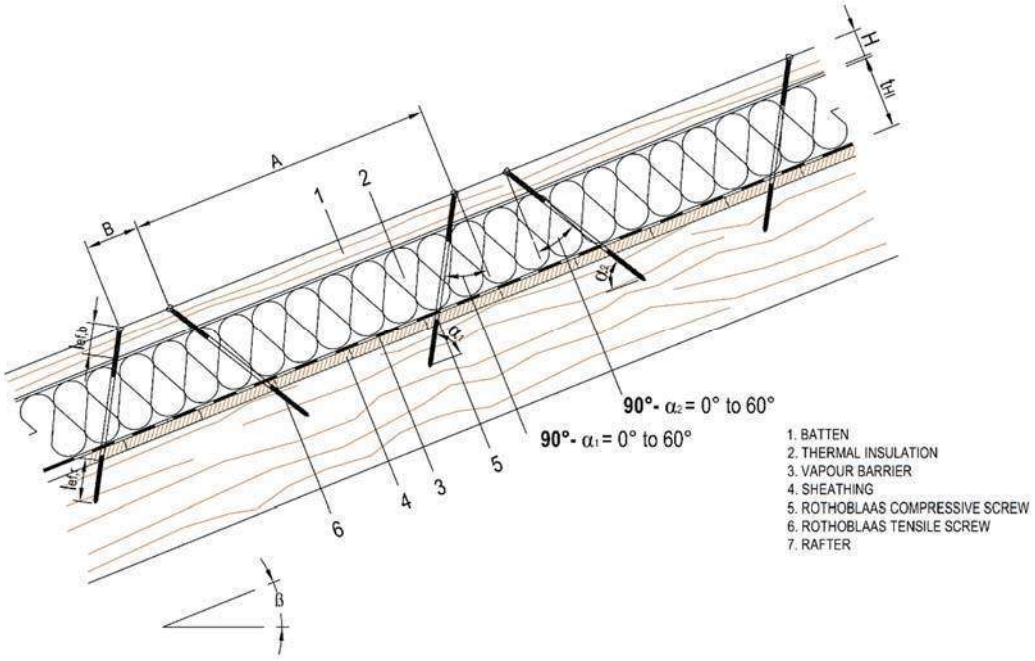
$$F_{ax,\alpha,Rd} = \min\left\{\begin{array}{l}\dfrac{f_{ax,d}\cdot d\cdot \ell_{ef}\cdot k_1\cdot k_2}{1,2\cdot\cos^2\alpha+\sin^2\alpha}\cdot\left(\dfrac{\rho_k}{350}\right)^{0,8}\\ \max\left\{f_{head,d}\cdot d_h^2;\ \dfrac{f_{ax,d}\cdot d\cdot \ell_{ef,b}}{1,2\cdot\cos^2\alpha+\sin^2\alpha}\right\}\cdot\left(\dfrac{\rho_k}{350}\right)^{0,8}\\ \dfrac{f_{tens,k}}{\gamma_{M2}}\end{array}\right\}$$

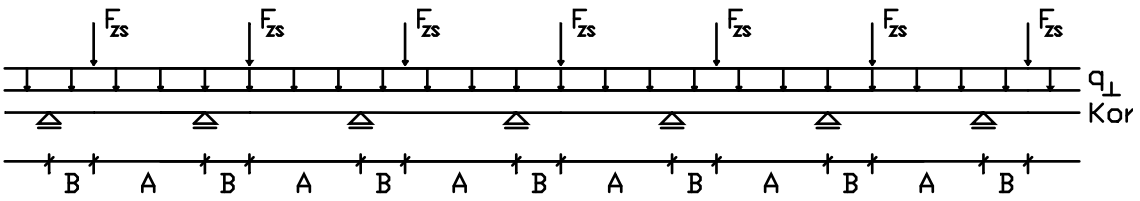
where:

$F_{ax,\alpha,d}$	design value of the load-carrying capacity of axially loaded screws [N]
$f_{ax,d}$	design value of the axial withdrawal parameter of the threaded part of the screw in the rafter or batten, $f_{ax,d}$ does not apply for wood-based panels except plywood, LVL or solid wood panels [N/mm²] ($f_{ax,k}$ = 11,7 N/mm²)
d	outer thread diameter of the screw [mm]
ℓ_{ef}	point side penetration length of the threaded part of the screw in the batten, $l_{ef} \geq 40$ mm [mm]
$\ell_{ef,b}$	length of the threaded part in the batten including the head for tensile and excluding the head for compressive force [mm]
α	angle between grain and screw axis ($30° \leq \alpha \leq 90°$)
ρ_k	characteristic density of the wood-based member [kg/m³]
$f_{head,d}$	design value of the head pull-through capacity of the screw [N/mm²]
d_h	head diameter [mm]
$f_{tens,k}$	characteristic tensile capacity of the screw [N]
γ_{M2}	partial factor according to EN 1993-1-1 or to the particular national annex
k_1	min {1; 200/t_{HI}}
k_2	min {1; $\sigma_{10\%}$/0,12}
t_{HI}	thickness of the thermal insulation material [mm]
$\sigma_{10\%}$	compressive stress of the thermal insulation material under 10 % deformation [N/mm²]

If k_1 and k_2 are considered, the deflection of the battens does not need to be considered. Alternatively to the battens, panels with a minimum thickness of 20 mm from plywood according to EN 636 or an ETA or national provisions that apply at the installation site, particle board according to EN 312 or an ETA or national provisions that apply at the installation site, oriented strand board according to EN 300 or an ETA or national provisions that apply at the installation site and solid wood panels according to EN 13353 or an ETA or national provisions that apply at the installation site or cross laminated timber according to an ETA may be used.

Thermal insulation on rafters with alternatively inclined "DGZ", "GWZ", "GWS", "VGZ" or "VGS" screws





Mechanical model

Depending on the screw spacing and the arrangement of tensile and compressive screws with different inclinations the battens are loaded by significant bending moments. The bending moments are derived based on the following assumptions:

- The tensile and compressive loads in the screws are determined based on equilibrium conditions from the actions parallel and perpendicular to the roof plane.
  These actions are constant line loads $q_\perp$ and $q_{||}$.
- The screws act as hinged columns supported 10 mm within the batten or rafter, respectively. The effective column length consequently equals the length of the screw between batten and rafter plus 20 mm.
- The batten is considered as a continuous beam with a constant span ℓ = A + B.
  The compressive screws constitute the supports of the continuous beam while the tensile screws transfer concentrated loads perpendicular to the batten axis.

The screws are predominantly loaded in withdrawal or compression, respectively. The screw's normal forces are determined based on the loads parallel and perpendicular to the roof plane:

Compressive screw: $$F_{c,Ed} = (A+B)\cdot\left(-\frac{q_{II}\cdot\sin\alpha_2 + q_\perp\cdot\cos\alpha_2}{\sin(\alpha_1+\alpha_2)}\right)$$

Tensile screw: $$F_{t,Ed} = (A + B) \cdot \left(\frac{q_{II} \cdot \sin\alpha_1 - q_{\perp} \cdot \cos\alpha_1}{\sin(\alpha_1 + \alpha_2)} \right)$$

The bending moments in the batten follow from the constant line load $q_{\perp}$ and the load components perpendicular to the batten from the tensile screws. The span of the continuous beam is (A + B). The load component perpendicular to the batten from the tensile screw is:

$$F_{ZS,Ed} = (A + B) \cdot \left(\frac{q_{II} \cdot \sin\alpha_1 \cdot \sin\alpha_2 - q_{\perp} \cdot \cos\alpha_1 \cdot \sin\alpha_2}{\sin(\alpha_1 + \alpha_2)} \right)$$

where:

q_{II} constant line load parallel to batten
$q_{\perp}$ constant line load perpendicular to batten
α_1 angle between compressive screw axis and grain direction
α_2 angle between tensile screw axis and grain direction

A positive value for F_{ZS} means a load towards the rafter, a negative value a load away from the rafter.

Design of the screws

The load-carrying capacity of the screws shall be calculated as follows:

Screws loaded in tension:

$$F_{ax,\alpha,Rd} = \min \left\{ \frac{f_{ax,d} \cdot d \cdot \ell_{ef,b}}{1,2 \cdot \cos^2\alpha + \sin^2\alpha} \cdot \left(\frac{\rho_{b,k}}{350} \right)^{0.8} ; \frac{f_{ax,d} \cdot d \cdot \ell_{ef,r}}{1,2 \cdot \cos^2\alpha + \sin^2\alpha} \cdot \left(\frac{\rho_{r,k}}{350} \right)^{0.8} ; \frac{f_{tens,k}}{\gamma_{M2}} \right\}$$

Screws loaded in compression:

$$F_{ax,\alpha,Rd} = \min \left\{ \frac{f_{ax,d} \cdot d \cdot \ell_{ef,b}}{1,2 \cdot \cos^2\alpha + \sin^2\alpha} \cdot \left(\frac{\rho_{b,k}}{350} \right)^{0.8} ; \frac{f_{ax,d} \cdot d \cdot \ell_{ef,r}}{1,2 \cdot \cos^2\alpha + \sin^2\alpha} \cdot \left(\frac{\rho_{r,k}}{350} \right)^{0.8} ; \frac{\kappa_c \cdot N_{pl,k}}{\gamma_{M1}} \right\}$$

where:

$F_{ax,\alpha,Rd}$ design value of the load-carrying capacity of the screw [N]
$f_{ax,d}$ design value of the axial withdrawal parameter of the threaded part of the screw in the rafter or batten, $f_{ax,d}$ does not apply for wood-based panels except plywood, LVL or solid wood panels [N/mm²] ($f_{ax,k}$ = 11,7 N/mm²)
d outer thread diameter of the screw [mm]
$\ell_{ef,b}$ penetration length of the threaded part of the screw in the batten [mm]
$\ell_{ef,r}$ penetration length of the threaded part of the screw in the rafter, $l_{ef} \geq 40$ mm [mm]
$\rho_{b,k}$ characteristic density of the batten [kg/m³]
$\rho_{r,k}$ characteristic density of the rafter [kg/m³]
α angle α_1 or α_2 between screw axis and grain direction, $30° \leq \alpha \leq 90°$, $30° \leq \alpha_2 \leq 90°$
$f_{tens,k}$ characteristic tensile capacity of the screw [N]
γ_{M1}, γ_{M2} partial factor according to EN 1993-1-1 or to the particular national annex
$\kappa_c \cdot N_{pl,k}$ buckling capacity of the screw [N]

Buckling capacity of the screw

Free screw length [mm]	"DGZ"		"GWZ", "GWS", "VGZ" or "VGS"		
	7 mm	9 mm	7 mm	9 mm	11 mm
	$\kappa_c \cdot N_{pl,k}$ [kN]	$\kappa_c \cdot N_{pl,k}$ [kN]	$\kappa_c \cdot N_{pl,k}$ [kN]	$\kappa_c \cdot N_{pl,k}$ [kN]	$\kappa_c \cdot N_{pl,k}$ [kN]
≤ 100	3,52	9,23	2,57	6,49	9,75
120	2,68	7,15	1,95	4,99	7,57
140	2,10	5,68	1,53	3,95	6,02
160	1,70	4,61	1,23	3,19	4,89
180	1,40	3,82	1,01	2,63	4,05
200	1,17	3,21	0,84	2,22	3,40
220	0,99	2,74	0,71	1,88	2,91
240	0,85	2,36	0,61	1,62	2,50
260	0,74	2,05	0,53	1,41	2,18
280	0,65	1,80	0,47	1,23	1,91
300	0,57	1,59	0,41	1,09	1,69
320		1,42			
340		1,27			
360		1,15			
380		1,04			
400		0,95			

where

free screw length = $t_{HI} / \sin \alpha$ [mm] ($\alpha = \alpha_1$ or α_2)