

# PROVINCIA DI BOLOGNA

## Comune di Crevalcore




**RIPRISTINO CON MIGLIORAMENTO SISMICO DEGLI IMMOBILI ADIBITI AD USO SCOLASTICO ED A SERVIZI PER LA PRIMA INFANZIA, DI PROPRIETA' PUBBLICA O PRIVATA (SCUOLE PARITARIE) CON ESITO AGIBILITA' E**  
**Ordinanza n.42 del 20 settembre 2012**

**Z025 - SCUOLA "I.P.S.I.A. MALPIGHI"**  
**Sede Centrale Crevalcore lavori di ripristino e miglioramento sismico**

## PROGETTO ESECUTIVO

### Relazione geotecnica

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<b>2012.23</b> CODICE COMMESSA	<b>PE</b> LIVELLO PROGETTAZIONE	CORPO	<b>S</b> ARGOMENTO	<b>01</b> TIPO ELABORATO	<b>6.2</b> NUMERO PROGRESSIVO	<b>0</b> REVISIONE
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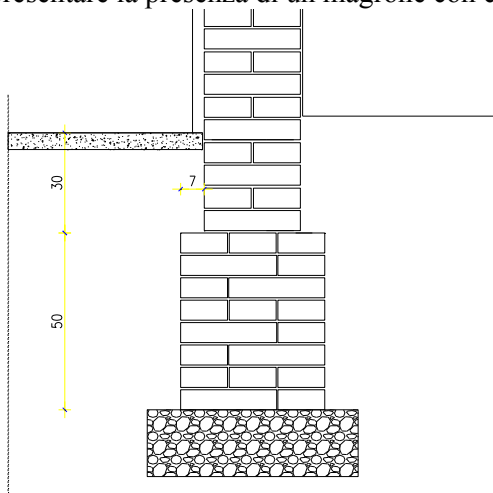
## 6.2.1 RELAZIONE SULLE FONDAZIONI STATO DI FATTO

### Premessa

La presente relazione di calcolo strutturale, è stata effettuata per ricavare un'immagine qualitativa dello stato tensionale al suolo relativamente alle strutture di fondazione esaminate; considerando le tipologie fondali ricavate dai saggi in modo da fotografarne le maggiori carenze.

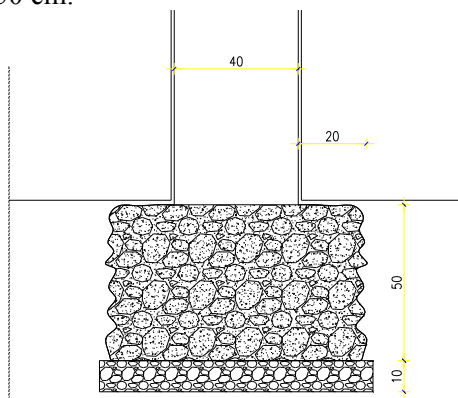
I saggi hanno mostrato le seguenti tipologie fondali:

Al di sotto dei muri a due teste le fondazioni sono costituite da ringrossi delle murature stesse che portano la conformazione della parete da due a tre teste sino ad una profondità di circa 80 cm dal piano di campagna, per poi presentare la presenza di un magrone con ciottoli di grosse dimensioni.



Al di sotto di muri ad una testa la conformazione risulta analoga a quella citata precedentemente con ringrossi delle murature stesse che portano la conformazione della parete da una a due teste sino ad una profondità di circa 80 cm dal piano di campagna, per poi presentare la presenza di un magrone con ciottoli di grosse dimensioni.

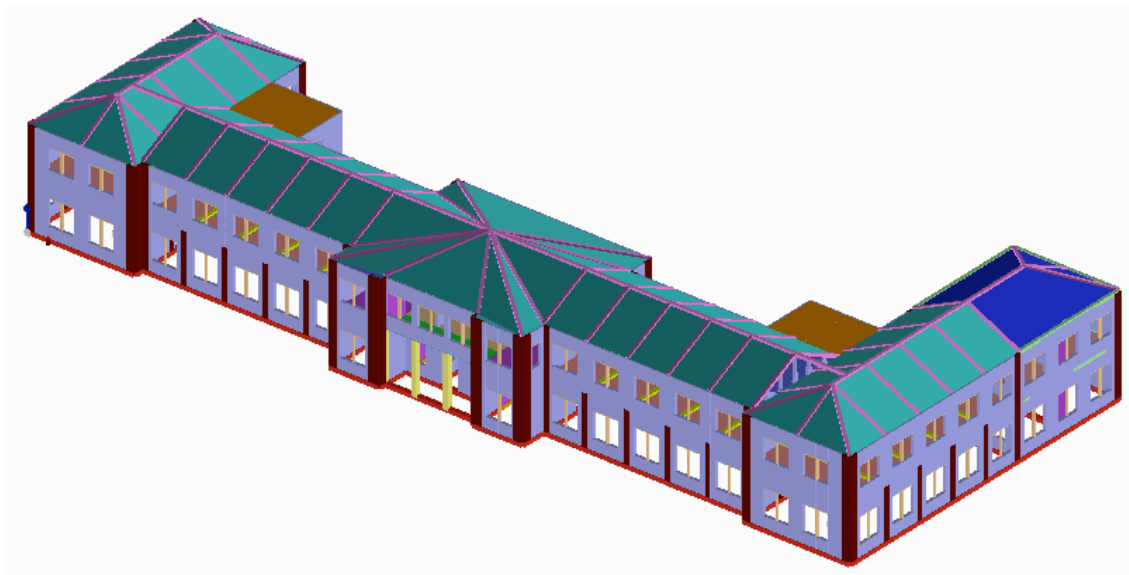
Al di sotto dei pilastri in cemento armato risulta invece presente un plinto in calcestruzzo di caratteristiche scadenti e conformato con ciottoli di grosse dimensioni, tondeggianti con diametro sino a 10 cm, privo di qualsiasi tipo di armatura e con una dimensione che risulta pari a quella del pilastro stesso aumentato di una ventina di centimetri per parte, sino ad una profondità dal piano di calpestio interno pari a circa 50 cm.



## Modello numerico

In questa parte viene descritto il modello numerico utilizzato per l'analisi della struttura.

<b>Modellazione della geometria e proprietà meccaniche:</b>	
nodi	3469
elementi D2 (per aste, travi, pilastri...)	1295
elementi D3 (per pareti, platee, gusci...)	2578
elementi solaio	140
elementi solidi	0
<b>Dimensione del modello strutturale [cm]:</b>	
X min =	0.00
Xmax =	8080.00
Ymin =	-157.00
Ymax =	3270.00
Zmin =	0.00
Zmax =	1200.00
<b>Strutture verticali:</b>	
Pilastri	SI
Pareti	SI
<b>Strutture non verticali:</b>	
Elementi di tipo asta	SI
Travi	SI
<b>Orizzontamenti:</b>	
Solai con la proprietà piano rigido	SI
Solai senza la proprietà piano rigido	SI
<b>Tipo di vincoli:</b>	
Nodi vincolati rigidamente	SI
Fondazioni puntuali (plinti/plinti su palo)	SI
Fondazioni di tipo trave	SI





### **LEGENDA TABELLA DATI NODI**

Il programma utilizza per la modellazione nodi strutturali.

Ogni nodo è individuato dalle coordinate cartesiane nel sistema di riferimento globale (X Y Z).

Ad ogni nodo è eventualmente associato un codice di vincolamento rigido, un codice di fondazione speciale, ed un set di sei molle (tre per le traslazioni, tre per le rotazioni). Le tabelle sottoriportate riflettono le succitate possibilità. In particolare per ogni nodo viene indicato in tabella:

<b>Nodo</b>	numero del nodo.
<b>X</b>	valore della coordinata X
<b>Y</b>	valore della coordinata Y
<b>Z</b>	valore della coordinata Z

Per i nodi ai quali sia associato un codice di vincolamento rigido, un codice di fondazione speciale o un set di

molle viene indicato in tabella:

<b>Nodo</b>	numero del nodo.
<b>X</b>	valore della coordinata X
<b>Y</b>	valore della coordinata Y
<b>Z</b>	valore della coordinata Z
<b>Note</b>	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, il valore 0 indica che lo spostamento o rotazione relativo è libero).
<b>Note</b>	(FS = 1, 2,...) eventuale codice del tipo di fondazione speciale (1, 2,... fanno riferimento alle tipologie: plinto, palo, plinto su pali,...) che è collegato al nodo. (ISO = "id SIGLA") indice e sigla identificativa dell' eventuale isolatore sismico assegnato al nodo
<b>Rig. TX</b>	valore della rigidezza dei vincoli elastici eventualmente applicati al nodo, nello specifico TX (idem per TY, TZ, RX, RY, RZ).

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	3095.0	-157.0	0.0	2	3175.0	-157.0	0.0	3	3200.0	-157.0	0.0
4	3325.0	-157.0	0.0	5	3450.0	-157.0	0.0	6	3480.0	-157.0	0.0
7	3580.0	-157.0	0.0	8	4500.0	-157.0	0.0	9	4600.0	-157.0	0.0
10	4630.0	-157.0	0.0	11	4755.0	-157.0	0.0	12	4880.0	-157.0	0.0
13	4905.0	-157.0	0.0	14	4985.0	-157.0	0.0	15	3580.0	-97.0	0.0
16	3600.0	-97.0	0.0	17	3860.0	-97.0	0.0	18	3910.0	-97.0	0.0
19	4170.0	-97.0	0.0	20	4220.0	-97.0	0.0	21	4480.0	-97.0	0.0
22	4500.0	-97.0	0.0	23	3095.0	-82.0	0.0	24	4985.0	-82.0	0.0
25	4985.0	-52.0	0.0	26	0.0	0.0	0.0	27	70.0	0.0	0.0
28	200.0	0.0	0.0	29	325.0	0.0	0.0	30	450.0	0.0	0.0
31	520.0	0.0	0.0	32	590.0	0.0	0.0	33	715.0	0.0	0.0
34	840.0	0.0	0.0	35	970.0	0.0	0.0	36	1040.0	0.0	0.0
37	7040.0	0.0	0.0	38	7110.0	0.0	0.0	39	7240.0	0.0	0.0
40	7365.0	0.0	0.0	41	7490.0	0.0	0.0	42	7560.0	0.0	0.0
43	7630.0	0.0	0.0	44	7755.0	0.0	0.0	45	7880.0	0.0	0.0
46	8010.0	0.0	0.0	47	8080.0	0.0	0.0	48	3095.0	6.5	0.0
49	4985.0	48.0	0.0	50	0.0	70.0	0.0	51	8080.0	70.0	0.0
52	3580.0	83.0	0.0	53	4500.0	83.0	0.0	54	1040.0	95.0	0.0
55	1110.0	95.0	0.0	56	1140.0	95.0	0.0	57	1265.0	95.0	0.0
58	1390.0	95.0	0.0	59	1440.0	95.0	0.0	60	1465.0	95.0	0.0
61	1490.0	95.0	0.0	62	1540.0	95.0	0.0	63	1665.0	95.0	0.0
64	1790.0	95.0	0.0	65	1840.0	95.0	0.0	66	1865.0	95.0	0.0
67	1890.0	95.0	0.0	68	1940.0	95.0	0.0	69	2065.0	95.0	0.0
70	2190.0	95.0	0.0	71	2240.0	95.0	0.0	72	2265.0	95.0	0.0
73	2290.0	95.0	0.0	74	2340.0	95.0	0.0	75	2465.0	95.0	0.0
76	2590.0	95.0	0.0	77	2645.0	95.0	0.0	78	2670.0	95.0	0.0
79	2695.0	95.0	0.0	80	2745.0	95.0	0.0	81	2870.0	95.0	0.0
82	2995.0	95.0	0.0	83	3025.0	95.0	0.0	84	3095.0	95.0	0.0
85	4985.0	95.0	0.0	86	5055.0	95.0	0.0	87	5085.0	95.0	0.0
88	5210.0	95.0	0.0	89	5335.0	95.0	0.0	90	5385.0	95.0	0.0
91	5410.0	95.0	0.0	92	5435.0	95.0	0.0	93	5490.0	95.0	0.0
94	5615.0	95.0	0.0	95	5740.0	95.0	0.0	96	5790.0	95.0	0.0
97	5815.0	95.0	0.0	98	5840.0	95.0	0.0	99	5890.0	95.0	0.0
100	6015.0	95.0	0.0	101	6140.0	95.0	0.0	102	6190.0	95.0	0.0
103	6215.0	95.0	0.0	104	6240.0	95.0	0.0	105	6290.0	95.0	0.0
106	6415.0	95.0	0.0	107	6540.0	95.0	0.0	108	6590.0	95.0	0.0
109	6615.0	95.0	0.0	110	6640.0	95.0	0.0	111	6690.0	95.0	0.0
112	6815.0	95.0	0.0	113	6940.0	95.0	0.0	114	6970.0	95.0	0.0
115	7040.0	95.0	0.0	116	0.0	100.0	0.0	117	8080.0	100.0	0.0
118	3580.0	153.0	0.0	119	3670.0	153.0	0.0	120	3790.0	153.0	0.0
121	3885.0	153.0	0.0	122	3945.0	153.0	0.0	123	4105.0	153.0	0.0
124	4195.0	153.0	0.0	125	4290.0	153.0	0.0	126	4410.0	153.0	0.0
127	4500.0	153.0	0.0	128	3095.0	211.7	0.0	129	4985.0	211.7	0.0
130	0.0	225.0	0.0	131	8080.0	225.0	0.0	132	1040.0	247.5	0.0
133	7040.0	247.5	0.0	134	3885.0	275.0	0.0	135	4195.0	275.0	0.0
136	3580.0	299.0	0.0	137	3095.0	328.3	0.0	138	4985.0	328.3	0.0
139	4500.0	335.0	0.0	140	0.0	350.0	0.0	141	8080.0	350.0	0.0
142	3885.0	375.0	0.0	143	4195.0	375.0	0.0	144	0.0	400.0	0.0
145	1040.0	400.0	0.0	146	7040.0	400.0	0.0	147	8080.0	400.0	0.0
148	4500.0	415.0	0.0	149	0.0	425.0	0.0	151	1040.0	425.0	0.0
152	3885.0	425.0	0.0	153	7040.0	425.0	0.0	155	8080.0	425.0	0.0
156	3095.0	445.0	0.0	157	3172.5	445.0	0.0	158	3250.0	445.0	0.0
159	3370.0	445.0	0.0	160	3475.0	445.0	0.0	161	3580.0	445.0	0.0
162	3610.0	445.0	0.0	163	3670.0	445.0	0.0	164	3795.0	445.0	0.0
165	3855.0	445.0	0.0	166	3885.0	445.0	0.0	167	4195.0	445.0	0.0
168	4290.0	445.0	0.0	169	4410.0	445.0	0.0	170	4500.0	445.0	0.0
171	4602.5	445.0	0.0	172	4705.0	445.0	0.0	173	4825.0	445.0	0.0
174	4905.0	445.0	0.0	175	4985.0	445.0	0.0	176	0.0	450.0	0.0
177	1040.0	450.0	0.0	178	7040.0	450.0	0.0	179	8080.0	450.0	0.0
180	1040.0	475.0	0.0	181	3095.0	475.0	0.0	182	4985.0	475.0	0.0

183	7040.0	475.0	0.0	184	0.0	505.0	0.0	185	8080.0	505.0	0.0
186	1040.0	595.0	0.0	187	3095.0	595.0	0.0	188	4985.0	595.0	0.0
189	7040.0	595.0	0.0	198	0.0	630.0	0.0	199	8080.0	630.0	0.0
200	1040.0	635.0	0.0	201	3095.0	635.0	0.0	202	4985.0	635.0	0.0
203	7040.0	635.0	0.0	204	0.0	755.0	0.0	205	1040.0	755.0	0.0
206	3095.0	755.0	0.0	207	4985.0	755.0	0.0	208	7040.0	755.0	0.0
209	8080.0	755.0	0.0	210	3095.0	785.0	0.0	211	3172.5	785.0	0.0
212	3250.0	785.0	0.0	213	3370.0	785.0	0.0	214	3475.0	785.0	0.0
215	3580.0	785.0	0.0	216	3610.0	785.0	0.0	217	3855.0	785.0	0.0
218	3885.0	785.0	0.0	219	4195.0	785.0	0.0	220	4375.0	785.0	0.0
221	4465.0	785.0	0.0	222	4500.0	785.0	0.0	223	4705.0	785.0	0.0
224	4825.0	785.0	0.0	225	4985.0	785.0	0.0	226	0.0	805.0	0.0
227	1040.0	805.0	0.0	228	7040.0	805.0	0.0	229	8080.0	805.0	0.0
230	0.0	830.0	0.0	232	1040.0	830.0	0.0	233	7040.0	830.0	0.0
235	8080.0	830.0	0.0	236	0.0	855.0	0.0	237	1040.0	855.0	0.0
238	7040.0	855.0	0.0	239	8080.0	855.0	0.0	240	3095.0	901.7	0.0
241	4985.0	901.7	0.0	242	0.0	905.0	0.0	243	8080.0	905.0	0.0
244	3580.0	936.3	0.0	245	3885.0	943.3	0.0	246	4195.0	986.7	0.0
247	4500.0	986.7	0.0	248	1040.0	995.0	0.0	249	7040.0	995.0	0.0
250	3095.0	1018.3	0.0	251	4985.0	1018.3	0.0	252	0.0	1030.0	0.0
253	8080.0	1030.0	0.0	254	3580.0	1087.5	0.0	255	3885.0	1101.7	0.0
256	1040.0	1135.0	0.0	257	1110.0	1135.0	0.0	258	1140.0	1135.0	0.0
259	1265.0	1135.0	0.0	260	1375.0	1135.0	0.0	261	1440.0	1135.0	0.0
262	1465.0	1135.0	0.0	263	1490.0	1135.0	0.0	264	1540.0	1135.0	0.0
265	1730.0	1135.0	0.0	266	1790.0	1135.0	0.0	267	1840.0	1135.0	0.0
268	1865.0	1135.0	0.0	269	1890.0	1135.0	0.0	270	1940.0	1135.0	0.0
271	2190.0	1135.0	0.0	272	2240.0	1135.0	0.0	273	2265.0	1135.0	0.0
274	2290.0	1135.0	0.0	275	2340.0	1135.0	0.0	276	2465.0	1135.0	0.0
277	2590.0	1135.0	0.0	278	2645.0	1135.0	0.0	279	2670.0	1135.0	0.0
280	2695.0	1135.0	0.0	281	2745.0	1135.0	0.0	282	2870.0	1135.0	0.0
283	2995.0	1135.0	0.0	284	3025.0	1135.0	0.0	285	3095.0	1135.0	0.0
286	4985.0	1135.0	0.0	287	5055.0	1135.0	0.0	288	5085.0	1135.0	0.0
289	5210.0	1135.0	0.0	290	5335.0	1135.0	0.0	291	5385.0	1135.0	0.0
292	5410.0	1135.0	0.0	293	5435.0	1135.0	0.0	294	5490.0	1135.0	0.0
295	5615.0	1135.0	0.0	296	5740.0	1135.0	0.0	297	5790.0	1135.0	0.0
298	5815.0	1135.0	0.0	299	5840.0	1135.0	0.0	300	5890.0	1135.0	0.0
301	6140.0	1135.0	0.0	302	6190.0	1135.0	0.0	303	6215.0	1135.0	0.0
304	6240.0	1135.0	0.0	305	6350.0	1135.0	0.0	306	6415.0	1135.0	0.0
307	6540.0	1135.0	0.0	308	6590.0	1135.0	0.0	309	6615.0	1135.0	0.0
310	6640.0	1135.0	0.0	311	6705.0	1135.0	0.0	312	6815.0	1135.0	0.0
313	6940.0	1135.0	0.0	314	6970.0	1135.0	0.0	315	7040.0	1135.0	0.0
316	0.0	1155.0	0.0	317	8080.0	1155.0	0.0	318	1375.0	1170.0	0.0
319	1730.0	1170.0	0.0	320	6350.0	1170.0	0.0	321	6705.0	1170.0	0.0
322	1040.0	1171.0	0.0	323	7040.0	1171.0	0.0	324	3095.0	1180.0	0.0
325	4985.0	1180.0	0.0	326	4195.0	1188.3	0.0	327	4500.0	1188.3	0.0
328	0.0	1205.0	0.0	329	8080.0	1205.0	0.0	330	0.0	1230.0	0.0
333	8080.0	1230.0	0.0	334	3580.0	1238.8	0.0	335	0.0	1255.0	0.0
336	8080.0	1255.0	0.0	337	3885.0	1260.0	0.0	338	3095.0	1280.0	0.0
339	4985.0	1280.0	0.0	340	1040.0	1291.0	0.0	341	7040.0	1291.0	0.0
342	1375.0	1295.0	0.0	343	1730.0	1295.0	0.0	344	6350.0	1295.0	0.0
345	6705.0	1295.0	0.0	346	0.0	1305.0	0.0	347	8080.0	1305.0	0.0
348	3095.0	1310.0	0.0	349	4985.0	1310.0	0.0	350	3885.0	1340.0	0.0
351	3095.0	1390.0	0.0	352	3165.0	1390.0	0.0	353	3275.0	1390.0	0.0
354	3395.0	1390.0	0.0	355	3525.0	1390.0	0.0	356	3580.0	1390.0	0.0
357	3655.0	1390.0	0.0	358	3775.0	1390.0	0.0	359	3885.0	1390.0	0.0
360	3950.0	1390.0	0.0	361	4110.0	1390.0	0.0	362	4195.0	1390.0	0.0
363	4325.0	1390.0	0.0	364	4445.0	1390.0	0.0	365	4500.0	1390.0	0.0
366	4685.0	1390.0	0.0	367	4805.0	1390.0	0.0	368	4915.0	1390.0	0.0
369	4985.0	1390.0	0.0	370	1730.0	1420.0	0.0	371	6350.0	1420.0	0.0
372	0.0	1430.0	0.0	373	8080.0	1430.0	0.0	374	1040.0	1448.0	0.0
375	7040.0	1448.0	0.0	376	1375.0	1475.0	0.0	377	6705.0	1475.0	0.0
378	1730.0	1537.5	0.0	379	6350.0	1537.5	0.0	380	0.0	1555.0	0.0
381	8080.0	1555.0	0.0	382	0.0	1605.0	0.0	383	1040.0	1605.0	0.0
384	7040.0	1605.0	0.0	385	8080.0	1605.0	0.0	386	0.0	1630.0	0.0
388	1040.0	1630.0	0.0	389	7040.0	1630.0	0.0	391	8080.0	1630.0	0.0
392	0.0	1655.0	0.0	393	1040.0	1655.0	0.0	394	1090.0	1655.0	0.0
395	1215.0	1655.0	0.0	396	1340.0	1655.0	0.0	397	1375.0	1655.0	0.0
398	1410.0	1655.0	0.0	399	1535.0	1655.0	0.0	400	1660.0	1655.0	0.0
401	1730.0	1655.0	0.0	402	6350.0	1655.0	0.0	403	6420.0	1655.0	0.0
404	6545.0	1655.0	0.0	405	6670.0	1655.0	0.0	406	6705.0	1655.0	0.0
407	6740.0	1655.0	0.0	408	6865.0	1655.0	0.0	409	6990.0	1655.0	0.0
410	7040.0	1655.0	0.0	411	8080.0	1655.0	0.0	412	0.0	1705.0	0.0
413	1040.0	1705.0	0.0	414	7040.0	1705.0	0.0	415	8080.0	1705.0	0.0
416	0.0	1830.0	0.0	417	1040.0	1830.0	0.0	418	7040.0	1830.0	0.0
419	8080.0	1830.0	0.0	420	0.0	1955.0	0.0	421	1040.0	1955.0	0.0
422	7040.0	1955.0	0.0	423	8080.0	1955.0	0.0	424	0.0	1985.0	0.0
425	1040.0	1985.0	0.0	426	7040.0	1985.0	0.0	427	8080.0	1985.0	0.0
428	0.0	2055.0	0.0	429	70.0	2055.0	0.0	430	120.0	2055.0	0.0
431	235.0	2055.0	0.0	432	350.0	2055.0	0.0	433	400.0	2055.0	0.0
434	640.0	2055.0	0.0	435	690.0	2055.0	0.0	436	805.0	2055.0	0.0
437	920.0	2055.0	0.0	438	970.0	2055.0	0.0	439	1040.0	2055.0	0.0
440	7040.0	2055.0	0.0	441	7110.0	2055.0	0.0	442	7135.0	2055.0	0.0
443	7275.0	2055.0	0.0	444	7390.0	2055.0	0.0	445	7440.0	2055.0	0.0
446	7680.0	2055.0	0.0	447	7730.0	2055.0	0.0	448	7845.0	2055.0	0.0
449	7960.0	2055.0	0.0	450	8010.0	2055.0	0.0	451	8080.0	2055.0	0.0
452	7040.0	2110.0	0.0	453	8080.0	2110.0	0.0	454	7040.0	2235.0	0.0
455	8080.0	2235.0	0.0	456	7040.0	2360.0	0.0	457	8080.0	2360.0	0.0
458	7040.0	2510.0	0.0	459	8080.0	2510.0	0.0	460	7040.0	2635.0	0.0

461	7110.0	2635.0	0.0	462	7260.0	2635.0	0.0	463	7385.0	2635.0	0.0
464	7595.0	2635.0	0.0	465	7695.0	2635.0	0.0	466	7895.0	2635.0	0.0
467	7995.0	2635.0	0.0	468	8080.0	2635.0	0.0	469	7040.0	2760.0	0.0
470	8080.0	2760.0	0.0	471	7040.0	2910.0	0.0	472	8080.0	2910.0	0.0
473	7040.0	3035.0	0.0	474	8080.0	3035.0	0.0	475	7040.0	3160.0	0.0
476	8080.0	3160.0	0.0	477	7040.0	3190.0	0.0	478	8080.0	3190.0	0.0
479	7040.0	3270.0	0.0	480	7120.0	3270.0	0.0	481	7280.0	3270.0	0.0
482	7440.0	3270.0	0.0	483	7680.0	3270.0	0.0	484	7840.0	3270.0	0.0
485	8000.0	3270.0	0.0	486	8080.0	3270.0	0.0				

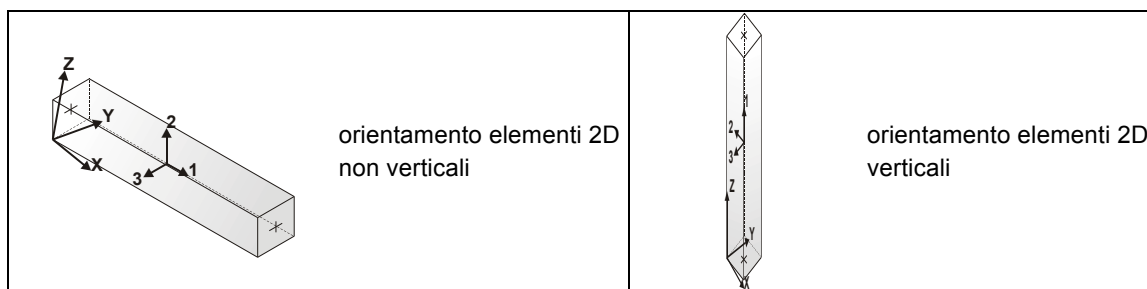
Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig. RZ
	cm	cm	cm		daN/cm	daN/cm	daN/cm	daN cm/rad	daN cm/rad	daN cm/rad
150	520.0	425.0	0.0	FS=1						
154	7560.0	425.0	0.0	FS=1						
190	1465.0	615.0	0.0	FS=1						
191	1865.0	615.0	0.0	FS=1						
192	2265.0	615.0	0.0	FS=1						
193	2670.0	615.0	0.0	FS=1						
194	5410.0	615.0	0.0	FS=1						
195	5815.0	615.0	0.0	FS=1						
196	6215.0	615.0	0.0	FS=1						
197	6615.0	615.0	0.0	FS=1						
231	520.0	830.0	0.0	FS=1						
234	7560.0	830.0	0.0	FS=1						
331	520.0	1230.0	0.0	FS=1						
332	7560.0	1230.0	0.0	FS=1						
387	520.0	1630.0	0.0	FS=1						
390	7560.0	1630.0	0.0	FS=1						

## TABELLA DATI TRAVI

Il programma utilizza per la modellazione elementi a due nodi denominati in generale travi.

Ogni elemento trave è individuato dal nodo iniziale e dal nodo finale.

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.



In particolare per ogni elemento viene indicato in tabella:

<b>Elem.</b>	numero dell'elemento
<b>Note</b>	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa, asta compressa
<b>Nodo I (J)</b>	numero del nodo iniziale (finale)
<b>Mat.</b>	codice del materiale assegnato all'elemento
<b>Sez.</b>	codice della sezione assegnata all'elemento
<b>Rotaz.</b>	valore della rotazione dell'elemento, attorno al proprio asse, nel caso in cui l'orientamento di default non sia adottabile; l'orientamento di default prevede per gli elementi non verticali l'asse 2 contenuto nel piano verticale e l'asse 3 orizzontale, per gli elementi verticali l'asse 2 diretto secondo X negativo e l'asse 3 diretto secondo Y negativo
<b>Svincolo I (J)</b>	codici di svincolo per le azioni interne; i primi sei codici si riferiscono al nodo iniziale, i restanti sei al nodo finale (il valore 1 indica che la relativa azione interna non è attiva)
<b>Wink V</b>	costante di sottofondo (coefficiente di Winkler) per la modellazione della trave su suolo elastico
<b>Wink O</b>	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo



elastico orizzontale

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
96	Trave f.	1	2	1	9				1.00	1.00
97	Trave f.	2	3	1	9				1.00	1.00
98	Trave f.	3	4	1	9				1.00	1.00
99	Trave f.	4	5	1	9				1.00	1.00
100	Trave f.	5	6	1	9				1.00	1.00
101	Trave f.	6	7	1	9				1.00	1.00
102	Trave f.	8	9	1	9				1.00	1.00
103	Trave f.	9	10	1	9				1.00	1.00
104	Trave f.	10	11	1	9				1.00	1.00
105	Trave f.	11	12	1	9				1.00	1.00
106	Trave f.	12	13	1	9				1.00	1.00
107	Trave f.	13	14	1	9				1.00	1.00
108	Trave f.	7	15	1	9				1.00	1.00
109	Trave f.	8	22	1	9				1.00	1.00
110	Trave f.	1	23	1	9				1.00	1.00
111	Trave f.	14	24	1	9				1.00	1.00
112	Trave f.	15	16	1	9				1.00	1.00
113	Trave f.	16	17	1	9				1.00	1.00
114	Trave f.	17	18	1	9				1.00	1.00
115	Trave f.	18	19	1	9				1.00	1.00
116	Trave f.	19	20	1	9				1.00	1.00
117	Trave f.	20	21	1	9				1.00	1.00
118	Trave f.	21	22	1	9				1.00	1.00
119	Trave f.	24	25	1	9				1.00	1.00
120	Trave f.	23	48	1	9				1.00	1.00
121	Trave f.	15	52	1	9				1.00	1.00
122	Trave f.	22	53	1	9				1.00	1.00
123	Trave f.	25	49	1	9				1.00	1.00
124	Trave f.	26	27	1	9				1.00	1.00
125	Trave f.	27	28	1	9				1.00	1.00
126	Trave f.	28	29	1	9				1.00	1.00
127	Trave f.	29	30	1	9				1.00	1.00
128	Trave f.	30	31	1	9				1.00	1.00
129	Trave f.	31	32	1	9				1.00	1.00
130	Trave f.	32	33	1	9				1.00	1.00
131	Trave f.	33	34	1	9				1.00	1.00
132	Trave f.	34	35	1	9				1.00	1.00
133	Trave f.	35	36	1	9				1.00	1.00
134	Trave f.	37	38	1	9				1.00	1.00
135	Trave f.	38	39	1	9				1.00	1.00
136	Trave f.	39	40	1	9				1.00	1.00
137	Trave f.	40	41	1	9				1.00	1.00
138	Trave f.	41	42	1	9				1.00	1.00
139	Trave f.	42	43	1	9				1.00	1.00
140	Trave f.	43	44	1	9				1.00	1.00
141	Trave f.	44	45	1	9				1.00	1.00
142	Trave f.	45	46	1	9				1.00	1.00
143	Trave f.	46	47	1	9				1.00	1.00
144	Trave f.	26	50	1	9				1.00	1.00
145	Trave f.	47	51	1	9				1.00	1.00
146	Trave f.	36	54	1	9				1.00	1.00
147	Trave f.	37	115	1	9				1.00	1.00
148	Trave f.	48	84	1	9				1.00	1.00
149	Trave f.	49	85	1	9				1.00	1.00
150	Trave f.	50	116	1	9				1.00	1.00
151	Trave f.	51	117	1	9				1.00	1.00
152	Trave f.	54	55	1	9				1.00	1.00
153	Trave f.	55	56	1	9				1.00	1.00
154	Trave f.	56	57	1	9				1.00	1.00
155	Trave f.	57	58	1	9				1.00	1.00
156	Trave f.	58	59	1	9				1.00	1.00
157	Trave f.	59	60	1	9				1.00	1.00
158	Trave f.	60	61	1	9				1.00	1.00
159	Trave f.	61	62	1	9				1.00	1.00
160	Trave f.	62	63	1	9				1.00	1.00
161	Trave f.	63	64	1	9				1.00	1.00
162	Trave f.	64	65	1	9				1.00	1.00
163	Trave f.	65	66	1	9				1.00	1.00
164	Trave f.	66	67	1	9				1.00	1.00
165	Trave f.	67	68	1	9				1.00	1.00
166	Trave f.	68	69	1	9				1.00	1.00
167	Trave f.	69	70	1	9				1.00	1.00
168	Trave f.	70	71	1	9				1.00	1.00
169	Trave f.	71	72	1	9				1.00	1.00
170	Trave f.	72	73	1	9				1.00	1.00
171	Trave f.	73	74	1	9				1.00	1.00
172	Trave f.	74	75	1	9				1.00	1.00
173	Trave f.	75	76	1	9				1.00	1.00
174	Trave f.	76	77	1	9				1.00	1.00
175	Trave f.	77	78	1	9				1.00	1.00
176	Trave f.	78	79	1	9				1.00	1.00
177	Trave f.	79	80	1	9				1.00	1.00
178	Trave f.	80	81	1	9				1.00	1.00

179	Trave f.	81	82	1	9	1.00	1.00
180	Trave f.	82	83	1	9	1.00	1.00
181	Trave f.	83	84	1	9	1.00	1.00
182	Trave f.	85	86	1	9	1.00	1.00
183	Trave f.	86	87	1	9	1.00	1.00
184	Trave f.	87	88	1	9	1.00	1.00
185	Trave f.	88	89	1	9	1.00	1.00
186	Trave f.	89	90	1	9	1.00	1.00
187	Trave f.	90	91	1	9	1.00	1.00
188	Trave f.	91	92	1	9	1.00	1.00
189	Trave f.	92	93	1	9	1.00	1.00
190	Trave f.	93	94	1	9	1.00	1.00
191	Trave f.	94	95	1	9	1.00	1.00
192	Trave f.	95	96	1	9	1.00	1.00
193	Trave f.	96	97	1	9	1.00	1.00
194	Trave f.	97	98	1	9	1.00	1.00
195	Trave f.	98	99	1	9	1.00	1.00
196	Trave f.	99	100	1	9	1.00	1.00
197	Trave f.	100	101	1	9	1.00	1.00
198	Trave f.	101	102	1	9	1.00	1.00
199	Trave f.	102	103	1	9	1.00	1.00
200	Trave f.	103	104	1	9	1.00	1.00
201	Trave f.	104	105	1	9	1.00	1.00
202	Trave f.	105	106	1	9	1.00	1.00
203	Trave f.	106	107	1	9	1.00	1.00
204	Trave f.	107	108	1	9	1.00	1.00
205	Trave f.	108	109	1	9	1.00	1.00
206	Trave f.	109	110	1	9	1.00	1.00
207	Trave f.	110	111	1	9	1.00	1.00
208	Trave f.	111	112	1	9	1.00	1.00
209	Trave f.	112	113	1	9	1.00	1.00
210	Trave f.	113	114	1	9	1.00	1.00
211	Trave f.	114	115	1	9	1.00	1.00
212	Trave f.	52	118	1	9	1.00	1.00
213	Trave f.	53	127	1	9	1.00	1.00
214	Trave f.	118	119	1	9	1.00	1.00
215	Trave f.	119	120	1	9	1.00	1.00
216	Trave f.	120	121	1	9	1.00	1.00
217	Trave f.	121	122	1	9	1.00	1.00
218	Trave f.	122	123	1	9	1.00	1.00
219	Trave f.	123	124	1	9	1.00	1.00
220	Trave f.	124	125	1	9	1.00	1.00
221	Trave f.	125	126	1	9	1.00	1.00
222	Trave f.	126	127	1	9	1.00	1.00
223	Trave f.	84	128	1	9	1.00	1.00
224	Trave f.	85	129	1	9	1.00	1.00
225	Trave f.	116	130	1	9	1.00	1.00
226	Trave f.	117	131	1	9	1.00	1.00
227	Trave f.	54	132	1	9	1.00	1.00
228	Trave f.	115	133	1	9	1.00	1.00
229	Trave f.	121	134	1	9	1.00	1.00
230	Trave f.	124	135	1	9	1.00	1.00
231	Trave f.	118	136	1	10	1.00	1.00
232	Trave f.	127	139	1	10	1.00	1.00
233	Trave f.	128	137	1	9	1.00	1.00
234	Trave f.	129	138	1	9	1.00	1.00
235	Trave f.	130	140	1	9	1.00	1.00
236	Trave f.	131	141	1	9	1.00	1.00
237	Trave f.	132	145	1	9	1.00	1.00
238	Trave f.	133	146	1	9	1.00	1.00
239	Trave f.	134	142	1	9	1.00	1.00
240	Trave f.	135	143	1	9	1.00	1.00
241	Trave f.	136	161	1	10	1.00	1.00
242	Trave f.	140	144	1	9	1.00	1.00
243	Trave f.	139	148	1	10	1.00	1.00
244	Trave f.	141	147	1	9	1.00	1.00
245	Trave f.	137	156	1	9	1.00	1.00
246	Trave f.	138	175	1	9	1.00	1.00
247	Trave f.	142	152	1	9	1.00	1.00
248	Trave f.	143	167	1	9	1.00	1.00
249	Trave f.	144	149	1	9	1.00	1.00
250	Trave f.	145	151	1	9	1.00	1.00
251	Trave f.	146	153	1	9	1.00	1.00
252	Trave f.	147	155	1	9	1.00	1.00
253	Trave f.	148	170	1	10	1.00	1.00
254	Trave f.	152	166	1	9	1.00	1.00
255	Trave f.	149	176	1	9	1.00	1.00
256	Trave f.	151	177	1	9	1.00	1.00
257	Trave f.	153	178	1	9	1.00	1.00
258	Trave f.	155	179	1	9	1.00	1.00
259	Trave f.	156	157	1	9	1.00	1.00
260	Trave f.	157	158	1	9	1.00	1.00
261	Trave f.	158	159	1	9	1.00	1.00
262	Trave f.	159	160	1	9	1.00	1.00
263	Trave f.	160	161	1	9	1.00	1.00
264	Trave f.	161	162	1	9	1.00	1.00
265	Trave f.	162	163	1	9	1.00	1.00
266	Trave f.	163	164	1	9	1.00	1.00

267	Trave f.	164	165	1	9	1.00	1.00
268	Trave f.	165	166	1	9	1.00	1.00
270	Trave f.	167	168	1	9	1.00	1.00
271	Trave f.	168	169	1	9	1.00	1.00
272	Trave f.	169	170	1	9	1.00	1.00
273	Trave f.	170	171	1	9	1.00	1.00
274	Trave f.	171	172	1	9	1.00	1.00
275	Trave f.	172	173	1	9	1.00	1.00
276	Trave f.	173	174	1	9	1.00	1.00
277	Trave f.	174	175	1	9	1.00	1.00
278	Trave f.	156	181	1	9	1.00	1.00
279	Trave f.	175	182	1	9	1.00	1.00
280	Trave f.	177	180	1	9	1.00	1.00
281	Trave f.	178	183	1	9	1.00	1.00
282	Trave f.	176	184	1	9	1.00	1.00
283	Trave f.	179	185	1	9	1.00	1.00
284	Trave f.	180	186	1	9	1.00	1.00
285	Trave f.	181	187	1	9	1.00	1.00
286	Trave f.	182	188	1	9	1.00	1.00
287	Trave f.	183	189	1	9	1.00	1.00
288	Trave f.	184	198	1	9	1.00	1.00
289	Trave f.	185	199	1	9	1.00	1.00
290	Trave f.	186	200	1	9	1.00	1.00
291	Trave f.	187	201	1	9	1.00	1.00
292	Trave f.	188	202	1	9	1.00	1.00
293	Trave f.	189	203	1	9	1.00	1.00
294	Trave f.	198	204	1	9	1.00	1.00
295	Trave f.	199	209	1	9	1.00	1.00
296	Trave f.	200	205	1	9	1.00	1.00
297	Trave f.	201	206	1	9	1.00	1.00
298	Trave f.	202	207	1	9	1.00	1.00
299	Trave f.	203	208	1	9	1.00	1.00
300	Trave f.	206	210	1	9	1.00	1.00
301	Trave f.	207	225	1	9	1.00	1.00
302	Trave f.	204	226	1	9	1.00	1.00
303	Trave f.	205	227	1	9	1.00	1.00
304	Trave f.	208	228	1	9	1.00	1.00
305	Trave f.	209	229	1	9	1.00	1.00
306	Trave f.	210	211	1	9	1.00	1.00
307	Trave f.	211	212	1	9	1.00	1.00
308	Trave f.	212	213	1	9	1.00	1.00
309	Trave f.	213	214	1	9	1.00	1.00
310	Trave f.	214	215	1	9	1.00	1.00
311	Trave f.	215	216	1	9	1.00	1.00
312	Trave f.	216	217	1	9	1.00	1.00
313	Trave f.	217	218	1	9	1.00	1.00
315	Trave f.	219	220	1	9	1.00	1.00
316	Trave f.	220	221	1	9	1.00	1.00
317	Trave f.	221	222	1	9	1.00	1.00
318	Trave f.	222	223	1	9	1.00	1.00
319	Trave f.	223	224	1	9	1.00	1.00
320	Trave f.	224	225	1	9	1.00	1.00
321	Trave f.	226	230	1	9	1.00	1.00
322	Trave f.	227	232	1	9	1.00	1.00
323	Trave f.	228	233	1	9	1.00	1.00
324	Trave f.	229	235	1	9	1.00	1.00
325	Trave f.	230	236	1	9	1.00	1.00
326	Trave f.	232	237	1	9	1.00	1.00
327	Trave f.	233	238	1	9	1.00	1.00
328	Trave f.	235	239	1	9	1.00	1.00
329	Trave f.	210	240	1	9	1.00	1.00
330	Trave f.	225	241	1	9	1.00	1.00
331	Trave f.	215	244	1	9	1.00	1.00
332	Trave f.	218	245	1	9	1.00	1.00
333	Trave f.	236	242	1	9	1.00	1.00
334	Trave f.	239	243	1	9	1.00	1.00
335	Trave f.	219	246	1	9	1.00	1.00
336	Trave f.	222	247	1	9	1.00	1.00
337	Trave f.	237	248	1	9	1.00	1.00
338	Trave f.	238	249	1	9	1.00	1.00
339	Trave f.	240	250	1	9	1.00	1.00
340	Trave f.	241	251	1	9	1.00	1.00
341	Trave f.	242	252	1	9	1.00	1.00
342	Trave f.	243	253	1	9	1.00	1.00
343	Trave f.	244	254	1	9	1.00	1.00
344	Trave f.	245	255	1	9	1.00	1.00
345	Trave f.	248	256	1	9	1.00	1.00
346	Trave f.	249	315	1	9	1.00	1.00
347	Trave f.	250	285	1	9	1.00	1.00
348	Trave f.	251	286	1	9	1.00	1.00
349	Trave f.	246	326	1	9	1.00	1.00
350	Trave f.	247	327	1	9	1.00	1.00
351	Trave f.	252	316	1	9	1.00	1.00
352	Trave f.	253	317	1	9	1.00	1.00
353	Trave f.	256	257	1	9	1.00	1.00
354	Trave f.	257	258	1	9	1.00	1.00
355	Trave f.	258	259	1	9	1.00	1.00
356	Trave f.	259	260	1	9	1.00	1.00

357	Trave f.	260	261	1	9	1.00	1.00
358	Trave f.	261	262	1	9	1.00	1.00
359	Trave f.	262	263	1	9	1.00	1.00
360	Trave f.	263	264	1	9	1.00	1.00
361	Trave f.	264	265	1	9	1.00	1.00
362	Trave f.	265	266	1	9	1.00	1.00
363	Trave f.	266	267	1	9	1.00	1.00
364	Trave f.	267	268	1	9	1.00	1.00
365	Trave f.	268	269	1	9	1.00	1.00
366	Trave f.	269	270	1	9	1.00	1.00
367	Trave f.	270	271	1	9	1.00	1.00
368	Trave f.	271	272	1	9	1.00	1.00
369	Trave f.	272	273	1	9	1.00	1.00
370	Trave f.	273	274	1	9	1.00	1.00
371	Trave f.	274	275	1	9	1.00	1.00
372	Trave f.	275	276	1	9	1.00	1.00
373	Trave f.	276	277	1	9	1.00	1.00
374	Trave f.	277	278	1	9	1.00	1.00
375	Trave f.	278	279	1	9	1.00	1.00
376	Trave f.	279	280	1	9	1.00	1.00
377	Trave f.	280	281	1	9	1.00	1.00
378	Trave f.	281	282	1	9	1.00	1.00
379	Trave f.	282	283	1	9	1.00	1.00
380	Trave f.	283	284	1	9	1.00	1.00
381	Trave f.	284	285	1	9	1.00	1.00
382	Trave f.	286	287	1	9	1.00	1.00
383	Trave f.	287	288	1	9	1.00	1.00
384	Trave f.	288	289	1	9	1.00	1.00
385	Trave f.	289	290	1	9	1.00	1.00
386	Trave f.	290	291	1	9	1.00	1.00
387	Trave f.	291	292	1	9	1.00	1.00
388	Trave f.	292	293	1	9	1.00	1.00
389	Trave f.	293	294	1	9	1.00	1.00
390	Trave f.	294	295	1	9	1.00	1.00
391	Trave f.	295	296	1	9	1.00	1.00
392	Trave f.	296	297	1	9	1.00	1.00
393	Trave f.	297	298	1	9	1.00	1.00
394	Trave f.	298	299	1	9	1.00	1.00
395	Trave f.	299	300	1	9	1.00	1.00
396	Trave f.	300	301	1	9	1.00	1.00
397	Trave f.	301	302	1	9	1.00	1.00
398	Trave f.	302	303	1	9	1.00	1.00
399	Trave f.	303	304	1	9	1.00	1.00
400	Trave f.	304	305	1	9	1.00	1.00
401	Trave f.	305	306	1	9	1.00	1.00
402	Trave f.	306	307	1	9	1.00	1.00
403	Trave f.	307	308	1	9	1.00	1.00
404	Trave f.	308	309	1	9	1.00	1.00
405	Trave f.	309	310	1	9	1.00	1.00
406	Trave f.	310	311	1	9	1.00	1.00
407	Trave f.	311	312	1	9	1.00	1.00
408	Trave f.	312	313	1	9	1.00	1.00
409	Trave f.	313	314	1	9	1.00	1.00
410	Trave f.	314	315	1	9	1.00	1.00
411	Trave f.	260	318	1	9	1.00	1.00
412	Trave f.	265	319	1	9	1.00	1.00
413	Trave f.	305	320	1	9	1.00	1.00
414	Trave f.	311	321	1	9	1.00	1.00
415	Trave f.	256	322	1	9	1.00	1.00
416	Trave f.	315	323	1	9	1.00	1.00
417	Trave f.	285	324	1	9	1.00	1.00
418	Trave f.	286	325	1	9	1.00	1.00
419	Trave f.	254	334	1	9	1.00	1.00
420	Trave f.	316	328	1	9	1.00	1.00
421	Trave f.	317	329	1	9	1.00	1.00
422	Trave f.	255	337	1	9	1.00	1.00
423	Trave f.	328	330	1	9	1.00	1.00
424	Trave f.	329	333	1	9	1.00	1.00
425	Trave f.	324	338	1	9	1.00	1.00
426	Trave f.	325	339	1	9	1.00	1.00
427	Trave f.	322	340	1	9	1.00	1.00
428	Trave f.	323	341	1	9	1.00	1.00
429	Trave f.	318	342	1	9	1.00	1.00
430	Trave f.	319	343	1	9	1.00	1.00
431	Trave f.	320	344	1	9	1.00	1.00
432	Trave f.	321	345	1	9	1.00	1.00
433	Trave f.	330	335	1	9	1.00	1.00
434	Trave f.	333	336	1	9	1.00	1.00
435	Trave f.	335	346	1	9	1.00	1.00
436	Trave f.	336	347	1	9	1.00	1.00
437	Trave f.	326	362	1	9	1.00	1.00
438	Trave f.	327	365	1	9	1.00	1.00
439	Trave f.	338	348	1	9	1.00	1.00
440	Trave f.	339	349	1	9	1.00	1.00
441	Trave f.	337	350	1	9	1.00	1.00
442	Trave f.	334	356	1	9	1.00	1.00
443	Trave f.	348	351	1	9	1.00	1.00
444	Trave f.	349	369	1	9	1.00	1.00

445	Trave f.	343	370	1	9	1.00	1.00
446	Trave f.	344	371	1	9	1.00	1.00
447	Trave f.	350	359	1	9	1.00	1.00
448	Trave f.	346	372	1	9	1.00	1.00
449	Trave f.	347	373	1	9	1.00	1.00
450	Trave f.	340	374	1	9	1.00	1.00
451	Trave f.	341	375	1	9	1.00	1.00
452	Trave f.	342	376	1	9	1.00	1.00
453	Trave f.	345	377	1	9	1.00	1.00
454	Trave f.	351	352	1	9	1.00	1.00
455	Trave f.	352	353	1	9	1.00	1.00
456	Trave f.	353	354	1	9	1.00	1.00
457	Trave f.	354	355	1	9	1.00	1.00
458	Trave f.	355	356	1	9	1.00	1.00
459	Trave f.	356	357	1	9	1.00	1.00
460	Trave f.	357	358	1	9	1.00	1.00
461	Trave f.	358	359	1	9	1.00	1.00
462	Trave f.	359	360	1	9	1.00	1.00
463	Trave f.	360	361	1	9	1.00	1.00
464	Trave f.	361	362	1	9	1.00	1.00
465	Trave f.	362	363	1	9	1.00	1.00
466	Trave f.	363	364	1	9	1.00	1.00
467	Trave f.	364	365	1	9	1.00	1.00
468	Trave f.	365	366	1	9	1.00	1.00
469	Trave f.	366	367	1	9	1.00	1.00
470	Trave f.	367	368	1	9	1.00	1.00
471	Trave f.	368	369	1	9	1.00	1.00
472	Trave f.	370	378	1	9	1.00	1.00
473	Trave f.	371	379	1	9	1.00	1.00
474	Trave f.	372	380	1	9	1.00	1.00
475	Trave f.	373	381	1	9	1.00	1.00
476	Trave f.	374	383	1	9	1.00	1.00
477	Trave f.	375	384	1	9	1.00	1.00
478	Trave f.	376	397	1	9	1.00	1.00
479	Trave f.	377	406	1	9	1.00	1.00
480	Trave f.	380	382	1	9	1.00	1.00
481	Trave f.	381	385	1	9	1.00	1.00
482	Trave f.	378	401	1	9	1.00	1.00
483	Trave f.	379	402	1	9	1.00	1.00
484	Trave f.	382	386	1	9	1.00	1.00
485	Trave f.	383	388	1	9	1.00	1.00
486	Trave f.	384	389	1	9	1.00	1.00
487	Trave f.	385	391	1	9	1.00	1.00
488	Trave f.	386	392	1	9	1.00	1.00
489	Trave f.	388	393	1	9	1.00	1.00
490	Trave f.	389	410	1	9	1.00	1.00
491	Trave f.	391	411	1	9	1.00	1.00
492	Trave f.	393	394	1	9	1.00	1.00
493	Trave f.	394	395	1	9	1.00	1.00
494	Trave f.	395	396	1	9	1.00	1.00
495	Trave f.	396	397	1	9	1.00	1.00
496	Trave f.	397	398	1	9	1.00	1.00
497	Trave f.	398	399	1	9	1.00	1.00
498	Trave f.	399	400	1	9	1.00	1.00
499	Trave f.	400	401	1	9	1.00	1.00
500	Trave f.	402	403	1	9	1.00	1.00
501	Trave f.	403	404	1	9	1.00	1.00
502	Trave f.	404	405	1	9	1.00	1.00
503	Trave f.	405	406	1	9	1.00	1.00
504	Trave f.	406	407	1	9	1.00	1.00
505	Trave f.	407	408	1	9	1.00	1.00
506	Trave f.	408	409	1	9	1.00	1.00
507	Trave f.	409	410	1	9	1.00	1.00
508	Trave f.	392	412	1	9	1.00	1.00
509	Trave f.	393	413	1	9	1.00	1.00
510	Trave f.	410	414	1	9	1.00	1.00
511	Trave f.	411	415	1	9	1.00	1.00
512	Trave f.	412	416	1	9	1.00	1.00
513	Trave f.	413	417	1	9	1.00	1.00
514	Trave f.	414	418	1	9	1.00	1.00
515	Trave f.	415	419	1	9	1.00	1.00
516	Trave f.	416	420	1	9	1.00	1.00
517	Trave f.	417	421	1	9	1.00	1.00
518	Trave f.	418	422	1	9	1.00	1.00
519	Trave f.	419	423	1	9	1.00	1.00
520	Trave f.	420	424	1	9	1.00	1.00
521	Trave f.	421	425	1	9	1.00	1.00
522	Trave f.	422	426	1	9	1.00	1.00
523	Trave f.	423	427	1	9	1.00	1.00
524	Trave f.	424	428	1	9	1.00	1.00
525	Trave f.	425	439	1	9	1.00	1.00
526	Trave f.	426	440	1	9	1.00	1.00
527	Trave f.	427	451	1	9	1.00	1.00
528	Trave f.	428	429	1	9	1.00	1.00
529	Trave f.	429	430	1	9	1.00	1.00
530	Trave f.	430	431	1	9	1.00	1.00
531	Trave f.	431	432	1	9	1.00	1.00
532	Trave f.	432	433	1	9	1.00	1.00

533	Trave f.	433	434	1	9	1.00	1.00
534	Trave f.	434	435	1	9	1.00	1.00
535	Trave f.	435	436	1	9	1.00	1.00
536	Trave f.	436	437	1	9	1.00	1.00
537	Trave f.	437	438	1	9	1.00	1.00
538	Trave f.	438	439	1	9	1.00	1.00
539	Trave f.	440	441	1	9	1.00	1.00
540	Trave f.	441	442	1	9	1.00	1.00
541	Trave f.	442	443	1	9	1.00	1.00
542	Trave f.	443	444	1	9	1.00	1.00
543	Trave f.	444	445	1	9	1.00	1.00
544	Trave f.	445	446	1	9	1.00	1.00
545	Trave f.	446	447	1	9	1.00	1.00
546	Trave f.	447	448	1	9	1.00	1.00
547	Trave f.	448	449	1	9	1.00	1.00
548	Trave f.	449	450	1	9	1.00	1.00
549	Trave f.	450	451	1	9	1.00	1.00
550	Trave f.	440	452	1	9	1.00	1.00
551	Trave f.	451	453	1	9	1.00	1.00
552	Trave f.	452	454	1	9	1.00	1.00
553	Trave f.	453	455	1	9	1.00	1.00
554	Trave f.	454	456	1	9	1.00	1.00
555	Trave f.	455	457	1	9	1.00	1.00
556	Trave f.	456	458	1	9	1.00	1.00
557	Trave f.	457	459	1	9	1.00	1.00
558	Trave f.	458	460	1	9	1.00	1.00
559	Trave f.	459	468	1	9	1.00	1.00
560	Trave f.	460	461	1	9	1.00	1.00
561	Trave f.	461	462	1	9	1.00	1.00
562	Trave f.	462	463	1	9	1.00	1.00
563	Trave f.	463	464	1	9	1.00	1.00
564	Trave f.	464	465	1	9	1.00	1.00
565	Trave f.	465	466	1	9	1.00	1.00
566	Trave f.	466	467	1	9	1.00	1.00
567	Trave f.	467	468	1	9	1.00	1.00
568	Trave f.	460	469	1	9	1.00	1.00
569	Trave f.	468	470	1	9	1.00	1.00
570	Trave f.	469	471	1	9	1.00	1.00
571	Trave f.	470	472	1	9	1.00	1.00
572	Trave f.	471	473	1	9	1.00	1.00
573	Trave f.	472	474	1	9	1.00	1.00
574	Trave f.	473	475	1	9	1.00	1.00
575	Trave f.	474	476	1	9	1.00	1.00
576	Trave f.	475	477	1	9	1.00	1.00
577	Trave f.	476	478	1	9	1.00	1.00
578	Trave f.	477	479	1	9	1.00	1.00
579	Trave f.	478	486	1	9	1.00	1.00
580	Trave f.	479	480	1	9	1.00	1.00
581	Trave f.	480	481	1	9	1.00	1.00
582	Trave f.	481	482	1	9	1.00	1.00
583	Trave f.	482	483	1	9	1.00	1.00
584	Trave f.	483	484	1	9	1.00	1.00
585	Trave f.	484	485	1	9	1.00	1.00
586	Trave f.	485	486	1	9	1.00	1.00

## LEGENDA TABELLA DATI AZIONI

Il programma consente l'uso di diverse tipologie di carico (azioni). Le azioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni azione applicata alla struttura viene di riportato il codice, il tipo e la sigla identificativa. Le tabelle successive dettagliano i valori caratteristici di ogni azione in relazione al tipo. Le tabelle riportano infatti i seguenti dati in relazione al tipo:

### Tipo carico distribuito globale su trave

Id	Tipo	Pos.	fx	fy	fz	mx	my	mz
			cm	daN/cm	daN/cm	daN/cm	daN	daN
4	DG:Fzi=-13.00 Fzf=-13.00 scala acc	0.0	0.0	0.0	-13.00	0.0	0.0	0.0
5	DG:Fzi=-10.00 Fzf=-10.00 scala per	0.0	0.0	0.0	-10.00	0.0	0.0	0.0
		0.0	0.0	0.0	-10.00	0.0	0.0	0.0

Che rappresentano i sovraccarichi accidentali e permanente della scala sulle murature

## LEGENDA TABELLA DATI SOLAI

Il programma utilizza per la modellazione elementi a tre o più nodi denominati in generale solaio.  
 Ogni elemento solaio è individuato da una poligonale di nodi 1,2, ..., N.  
 L'elemento solaio è utilizzato in primo luogo per la modellazione dei carichi agenti sugli elementi strutturali.  
 In secondo luogo può essere utilizzato per la corretta ripartizione delle forze orizzontali agenti nel proprio piano. L'elemento balcone è derivato dall'elemento solaio.  
 I carichi agenti sugli elementi, raccolti in un archivio, sono direttamente assegnati agli elementi utilizzando le informazioni raccolte nell' archivio (es. i coefficienti combinatori). La tabella seguente riporta i dati utilizzati per la definizione dei carichi e delle masse.

<b>Id.Arch.</b>	Identificativo dell' archivio
<b>Tipo</b>	Tipo di carico <b>Variab.</b> Carico variabile generico <b>Var. rid.</b> Carico variabile generico con riduzione in funzione dell' area (c.5.5. ...) <b>Neve</b> Carico di neve
<b>G1k</b>	carico permanente (comprensivo del peso proprio)
<b>G2k</b>	carico permanente non strutturale e non compiutamente definito
<b>Qk</b>	carico variabile
<b>Fatt. A</b>	fattore di riduzione del carico variabile (0.5 o 0.75) per tipo "Var.rid."
<b>S sis.</b>	fattore di riduzione del carico variabile per la definizione delle masse sismiche per D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento")
<b>Psi 0</b>	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: <b>per valore raro</b>
<b>Psi 1</b>	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: <b>per valore frequente</b>
<b>Psi 2</b>	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: <b>per valore quasi permanente</b>
<b>Psi S 2</b>	Coefficiente di combinazione che fornisce il valore quasi-permanente dell'azione variabile: <b>per la definizione delle masse sismiche</b>
<b>Fatt. Fi</b>	Coefficiente di correlazione dei carichi per edifici

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione. In particolare per ogni elemento viene indicato in tabella:

<b>Elem</b>	numero dell'elemento
<b>Tipo</b>	codice di comportamento <b>S</b> elemento utilizzato solo per scarico <b>C</b> elemento utilizzato per scarico e per modellazione piano rigido <b>M</b> scarico monodirezionale <b>B</b> scarico bidirezionale
<b>Id.Arch.</b>	Identificativo dell' archivio
<b>Mat</b>	codice del materiale assegnato all'elemento
<b>Spessore</b>	spessore dell'elemento (costante)
<b>Orditura</b>	angolo (rispetto all'asse X) della direzione dei travetti principali
<b>Gk</b>	carico permanente (comprensivo del peso proprio)
<b>Qk</b>	carico variabile
<b>Nodi</b>	numero dei nodi che definiscono l'elemento (5 per riga)

ID Arch.	Tipo	G1k	G2k	Qk	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
		daN/cm2	daN/cm2	daN/cm2							
S1	Variab.	3.70e-02	8.00e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
S2	Variab.	2.74e-02	4.00e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
S3	Variab.	6.22e-02	4.00e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
S4	Variab.	2.97e-02		3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
S5	Variab.	1.15e-02				1.00	0.0	0.0	0.0	0.0	1.00
S6	Variab.	7.80e-03				1.00	0.0	0.0	0.0	0.0	1.00
S7	Variab.	3.40e-02	9.00e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
S8	Variab.	3.60e-02	3.00e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
S9	Variab.	1.73e-02				1.00	0.0	0.0	0.0	0.0	1.00
S10	Neve	3.28e-02		1.20e-02		1.00	0.50	0.20	0.0	0.0	1.00
S11	Variab.	1.25e-02				1.00	0.0	0.0	0.0	0.0	1.00
volta12	Variab.	6.00e-02	4.00e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
cop.lignea13	Neve	1.00e-02		1.20e-02		1.00	0.50	0.20	0.0	0.0	1.00
cop. Tav.14	Neve	1.50e-02		1.20e-02		1.00	0.50	0.20	0.0	0.0	1.00
S2bis 15	Variab.	3.04e-02	4.00e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
						daN/cm2	daN/cm2	daN/cm2					
1	SB	12	m=10	1.0	90.0	6.00e-02	4.00e-03	3.00e-02	1488	1448	1449	1450	1451

2	SB	12	m=10	1.0	90.0	6.00e-02	4.00e-03	3.00e-02	1452	1557	1556	1555	1554
									1454	1455	1456	1457	1458
3	SB	12	m=10	1.0	90.0	6.00e-02	4.00e-03	3.00e-02	1489	1563	1562	1561	1560
									1452	1453	1454	1560	1559
4	SM	15	m=10	1.0	0.0	3.04e-02	4.00e-03	3.00e-02	1558	1557			
									1440	1448	1488	1554	1572
									1605	1604	1603	1602	1601
									1600	1573	1564	1520	1484
									1459	1434	1435	1436	1437
									1438	1439			
5	SM	15	m=10	1.0	0.0	3.04e-02	4.00e-03	3.00e-02	1588	1575	1563	1489	1458
									1441	1442	1443	1444	1445
									1446	1447	1460	1461	1485
									1521	1565	1574	1620	1619
									1618	1617	1616	1615	
6	SM	1	m=1	1.0	90.0	3.70e-02	8.00e-03	3.00e-02	1584	1576	1566	1552	1462
									1463	1464	1465	1466	1467
									1468	1469	1470	1471	1472
									1490	1568	1585	1593	1592
									1591	1590	1589		
7	SM	1	m=1	1.0	90.0	3.70e-02	8.00e-03	3.00e-02	1595	1586	1569	1551	1473
									1474	1475	1476	1477	1478
									1479	1480	1481	1482	1483
									1487	1553	1567	1577	1587
									1599				
8	SM	2	m=10	1.0	90.0	2.74e-02	4.00e-03	3.00e-02	1555	1556	1557	1570	1582
									1594	1610	1609	1608	1607
									1606	1605	1572	1554	
9	SM	2	m=10	1.0	0.0	2.74e-02	4.00e-03	3.00e-02	1594	1582	1570	1557	1558
									1559	1560	1571	1583	1612
									1610				
10	SM	2	m=10	1.0	90.0	2.74e-02	4.00e-03	3.00e-02	1583	1571	1560	1561	1562
									1563	1575	1588	1615	1614
									1613	1612			
11	SM	1	m=1	1.0	0.0	3.70e-02	8.00e-03	3.00e-02	1697	1686	1679	1674	1650
									1645	1631	1625	1622	1593
									1585	1568	1490	1491	1492
									1493	1494	1495	1496	1578
									1635	1689	1713	1712	1711
									1710	1709	1708	1707	
12	SM	1	m=1	1.0	0.0	3.70e-02	8.00e-03	3.00e-02	1689	1635	1578	1496	1497
									1498	1499	1500	1501	1502
									1636	1719	1718	1717	1716
									1715	1714	1713		
13	SM	1	m=1	1.0	0.0	3.70e-02	8.00e-03	3.00e-02	1502	1503	1504	1505	1506
									1507	1508	1637	1725	1724
									1723	1722	1721	1720	1719
14	SM	1	m=1	1.0	0.0	3.70e-02	8.00e-03	3.00e-02	1637	1508	1509	1510	1511
									1512	1513	1514	1579	1638
									1690	1731	1730	1729	1728
									1727	1726	1725		
15	SM	1	m=1	1.0	0.0	3.70e-02	8.00e-03	3.00e-02	1690	1638	1579	1514	1515
									1516	1517	1518	1519	1520
									1564	1573	1600	1626	1632
									1646	1651	1655	1680	1703
									1737	1736	1735	1734	1733
									1732	1731			
16	SM	2	m=10	1.0	90.0	2.74e-02	4.00e-03	3.00e-02	1651	1646	1632	1626	1600
									1601	1602	1603	1604	1605
									1606	1607	1608	1609	1610
									1664	1663	1662	1661	1659
									1658	1657	1656	1655	
17	SM	2	m=10	1.0	0.0	2.74e-02	4.00e-03	3.00e-02	1610	1611	1612	1666	1665
									1664				
18	SM	2	m=10	1.0	90.0	2.74e-02	4.00e-03	3.00e-02	1612	1613	1614	1615	1616
									1617	1618	1619	1620	1627
									1633	1647	1652	1672	1671
									1670	1669	1668	1667	1666
19	SM	1	m=1	1.0	0.0	3.70e-02	8.00e-03	3.00e-02	1704	1681	1672	1652	1647
									1633	1627	1620	1574	1565
									1521	1522	1523	1524	1525
									1526	1527	1580	1639	1691
									1744	1743	1742	1741	1740
									1739	1738			
20	SM	1	m=1	1.0	0.0	3.70e-02	8.00e-03	3.00e-02	1691	1639	1580	1527	1528
									1529	1530	1531	1532	1533
									1640	1750	1749	1748	1747
									1746	1745	1744		
21	SM	1	m=1	1.0	0.0	3.70e-02	8.00e-03	3.00e-02	1640	1533	1534	1535	1536
									1537	1539	1641	1756	1755
									1754	1753	1752	1751	1750
22	SM	1	m=1	1.0	0.0	3.70e-02	8.00e-03	3.00e-02	1641	1539	1540	1541	1542
									1543	1544	1545	1581	1642
									1692	1762	1761	1760	1759
									1758	1757	1756		
23	SM	1	m=1	1.0	0.0	3.70e-02	8.00e-03	3.00e-02	1692	1642	1581	1545	1546
									1547	1548	1549	1550	1551
									1569	1586	1595	1623	1628



									1634	1648	1653	1675	1682
									1687	1698	1768	1767	1766
									1765	1764	1763	1762	
24	SM	1	m=1	1.0	90.0	3.70e-02	8.00e-03	3.00e-02	1673	1649	1643	1629	1621
									1589	1590	1591	1592	1593
									1622	1625	1631	1645	1650
									1674	1679	1678	1677	
25	SM	1	m=1	1.0	90.0	3.70e-02	8.00e-03	3.00e-02	1682	1675	1653	1648	1634
									1628	1623	1595	1596	1597
									1598	1599	1624	1630	1644
									1654	1676	1684		
26	SM	1	m=1	1.0	90.0	3.70e-02	8.00e-03	3.00e-02	1781	1769	1701	1693	1685
									1677	1678	1679	1686	1697
									1707	1775	1785	1784	1783
27	SM	1	m=1	1.0	90.0	3.70e-02	8.00e-03	3.00e-02	1786	1776	1768	1698	1687
									1682	1683	1684	1688	1694
									1702	1770	1782	1788	1787
28	SM	4	m=10	1.0	0.0	2.97e-02		3.00e-02	1658	1659	1660	1811	1810
									1809				
29	SM	2	m=10	1.0	0.0	2.74e-02	4.00e-03	3.00e-02	1665	1666	1699	1779	1818
									1817	1816	1815	1805	1792
									1706	1696	1664		
30	CM	3	m=10	20.0	90.0	6.22e-02	4.00e-03	3.00e-02	1779	1699	1666	1667	1668
									1669	1700	1780	1821	1820
									1819	1818			
31	CM	3	m=10	20.0	90.0	6.22e-02	4.00e-03	3.00e-02	1780	1700	1669	1670	1671
									1672	1681	1704	1738	1778
									1794	1804	1825	1824	1823
									1822	1821			
32	SM	4	m=10	1.0	0.0	2.97e-02		3.00e-02	1803	1793	1777	1737	1703
									1680	1655	1656	1657	1658
									1809	1808	1807	1806	
33	SM	7	m=1	1.0	0.0	3.40e-02	9.00e-03	3.00e-02	1846	1839	1830	1795	1785
									1775	1707	1708	1709	1710
									1711	1771	1797	1832	1857
									1856	1855	1854	1853	
34	SM	7	m=1	1.0	0.0	3.40e-02	9.00e-03	3.00e-02	1832	1797	1771	1711	1712
									1713	1714	1715	1716	1772
									1798	1826	1834	1861	1860
									1859	1858	1857		
35	SM	7	m=1	1.0	0.0	3.40e-02	9.00e-03	3.00e-02	1835	1827	1799	1773	1758
									1759	1760	1761	1762	1763
									1764	1774	1800	1833	1866
									1865	1864	1863	1862	
36	SM	7	m=1	1.0	0.0	3.40e-02	9.00e-03	3.00e-02	1833	1800	1774	1764	1765
									1766	1767	1768	1776	1786
									1796	1831	1840	1847	1870
									1869	1868	1867	1866	
37	SM	1	m=1	1.0	90.0	3.70e-02	8.00e-03	3.00e-02	1838	1836	1828	1801	1790
									1783	1784	1785	1795	1830
									1839	1846	1845	1844	1843
									1842				
38	SM	1	m=1	1.0	90.0	3.70e-02	8.00e-03	3.00e-02	1840	1831	1796	1786	1787
									1788	1791	1802	1829	1837
									1841	1851	1850	1849	1848
									1847				
39	SM	4	m=10	1.0	0.0	2.97e-02		3.00e-02	1810	1811	1873	1872	1809
40	SM	1	m=1	1.0	90.0	3.70e-02	8.00e-03	3.00e-02	1886	1882	1878	1874	1852
									1842	1843	1844	1845	1846
									1853	1875	1879	1883	1887
									1902	1901	1900	1899	1898
									1897	1896	1895	1894	1893
									1892	1891	1890		
41	SM	1	m=1	1.0	90.0	3.70e-02	8.00e-03	3.00e-02	1914	1913	1912	1911	1910
									1909	1908	1907	1906	1905
									1904	1903	1888	1884	1880
									1876	1870	1847	1848	1849
									1850	1851	1871	1877	1881
									1885	1889	1915		
42	SM	8	m=1	1.0	90.0	3.60e-02	3.00e-03	3.00e-02	1922	1920	1918	1916	1903
									1904	1905	1906	1907	1908
									1909	1910	1911	1912	1913
									1914	1915	1917	1919	1921
									1923	1932	1931	1930	1929
									1928	1927	1926	1925	1924
43	SM	8	m=1	1.0	90.0	3.60e-02	3.00e-03	3.00e-02	1941	1939	1937	1935	1933
									1924	1925	1926	1927	1928
									1929	1930	1931	1932	1934
									1936	1938	1940	1942	1950
									1949	1948	1947	1946	1945
									1944	1943			
44	SM	6	m=44	1.0	0.0	7.80e-03			3002	2994	2958	2923	2898
									2873	2874	2875	2876	2877
									2878	2879	2887	2927	2992
									3001	3023	3022	3021	3020
									3019	3018			
45	SM	5	m=1	1.0	90.0	1.15e-02			3014	3006	3000	2993	2891
									2892	2893	2894	2895	2896

							2897	2880	2881	2882	2883
							2884	2885	2886	2899	2900
							2924	2959	2995	3003	3036
							3035	3034	3033	3032	3031
							3030	3029	3028	3027	3026
46	SM	9	m=1	1.0	0.0	1.73e-02	3001	2992	2927	2887	2888
							2889	2890	2891	2993	3000
							3006	3014	3026	3025	3024
							3023				
47	SM	6	m=44	1.0	90.0	7.80e-03	2902	2903	2904	2905	2906
							2907	2908	2909	2910	2911
							2928	2998	3008	3013	3012
							3011	3007	3004	2996	2990
							2925	2901			
48	SM	6	m=44	1.0	90.0	7.80e-03	2922	2926	2991	2997	3005
							3010	3017	3016	3015	3009
							2999	2989	2912	2913	2914
							2915	2916	2917	2918	2919
							2920	2921			
49	SM	6	m=44	1.0	0.0	7.80e-03	3124	3123	3122	3121	3120
							3119	3118	3110	3103	3091
							3068	3063	3047	3041	3038
							3013	3008	2998	2928	2929
							2930	2931	2932	2933	2934
50	SM	6	m=44	1.0	0.0	7.80e-03	3131	3130	3128	3127	3126
							3125	3124	3051	2934	2935
							2936	2937	2938	2939	2940
							3052				
51	SM	6	m=44	1.0	0.0	7.80e-03	3137	3136	3135	3134	3133
							3132	3131	3052	2940	2941
							2942	2943	2944	2945	2946
							3053				
52	SM	6	m=44	1.0	0.0	7.80e-03	3143	3142	3141	3140	3139
							3138	3137	3053	2946	2947
							2948	2949	2950	2951	2952
							3054				
53	SM	6	m=44	1.0	0.0	7.80e-03	3054	2952	2953	2954	2955
							2956	2957	2958	2994	3002
							3018	3042	3048	3064	3069
							3073	3097	3114	3149	3148
							3147	3146	3145	3144	3143
54	SM	9	m=1	1.0	90.0	1.73e-02	3069	3064	3048	3042	3018
							3019	3020	3021	3022	3023
							3078	3077	3076	3075	3074
							3073				
55	SM	9	m=1	1.0	0.0	1.73e-02	3023	3024	3025	3026	3081
							3080	3079	3078		
56	SM	5	m=1	1.0	90.0	1.15e-02	3026	3027	3028	3029	3030
							3031	3032	3033	3034	3035
							3036	3043	3049	3065	3070
							3089	3088	3087	3086	3085
							3084	3083	3082	3081	
57	SM	6	m=44	1.0	0.0	7.80e-03	3115	3098	3070	3065	3049
							3043	3036	3003	2995	2959
							2961	2962	2963	2964	2965
							3156	3155	3154	3153	3152
							3151	3150			
58	SM	6	m=44	1.0	0.0	7.80e-03	3057	2965	2966	2967	2968
							2969	2970	2971	3058	3162
							3161	3160	3159	3158	3157
							3156				
59	SM	6	m=44	1.0	0.0	7.80e-03	3058	2971	2972	2973	2974
							2975	2976	2977	3059	3168
							3167	3166	3165	3164	3163
							3162				
60	SM	6	m=44	1.0	0.0	7.80e-03	3059	2977	2978	2979	2980
							2981	2982	2983	3060	3174
							3173	3172	3171	3170	3169
							3168				
61	SM	6	m=44	1.0	0.0	7.80e-03	2983	2984	2985	2986	2987
							2988	2989	2999	3009	3015
							3039	3044	3050	3066	3071
							3092	3104	3111	3180	3179
							3178	3177	3176	3175	3174
62	SM	6	m=44	1.0	90.0	7.80e-03	3013	3038	3041	3047	3063
							3068	3091	3096	3095	3094
							3090	3067	3061	3045	3037
							3011	3012			
63	SM	6	m=44	1.0	90.0	7.80e-03	3016	3017	3040	3046	3062
							3072	3093	3101	3100	3099
							3092	3071	3066	3050	3044
							3039	3015			
64	SM	6	m=44	1.0	90.0	7.80e-03	3096	3103	3110	3118	3187
							3195	3194	3193	3191	3181
							3112	3106	3102	3094	3095
65	SM	6	m=44	1.0	90.0	7.80e-03	3100	3101	3105	3107	3113
							3182	3192	3198	3197	3196
							3188	3180	3111	3104	3099

66	SM	6	m=44	1.0	0.0	7.80e-03		3213	3203	3189	3149	3114
								3097	3073	3074	3075	3076
								3077	3078	3108	3116	3199
								3221	3220	3219	3218	3217
								3216				
67	SM	9	m=1	1.0	0.0	1.73e-02		3199	3116	3108	3078	3079
								3080	3081	3109	3117	3202
								3215	3224	3223	3222	3221
68	SM	5	m=1	1.0	90.0	1.15e-02		3215	3202	3117	3109	3081
								3082	3083	3084	3085	3086
								3087	3088	3089	3098	3115
								3150	3190	3204	3214	3234
								3233	3232	3231	3230	3229
								3228	3227	3226	3225	3224
69	SM	10	m=1	1.0	0.0	3.28e-02	1.20e-02	3253	3248	3239	3205	3195
								3187	3118	3119	3120	3121
								3122	3183	3207	3241	3262
								3261	3260	3259	3258	
70	SM	10	m=1	1.0	0.0	3.28e-02	1.20e-02	3266	3265	3264	3263	3262
								3241	3207	3183	3122	3123
								3124	3125	3126	3127	3128
								3184	3208	3235	3243	
71	SM	10	m=1	1.0	0.0	3.28e-02	1.20e-02	3244	3236	3209	3185	3170
								3171	3172	3173	3174	3175
								3176	3186	3210	3242	3271
								3270	3269	3268	3267	
72	SM	10	m=1	1.0	0.0	3.28e-02	1.20e-02	3176	3177	3178	3179	3180
								3188	3196	3206	3240	3249
								3254	3275	3274	3273	3272
								3271				
73	SM	6	m=44	1.0	90.0	7.80e-03		3195	3205	3239	3248	3253
								3252	3251	3247	3245	3237
								3211	3200	3193	3194	
74	SM	6	m=44	1.0	90.0	7.80e-03		3197	3198	3201	3212	3238
								3246	3250	3256	3255	3254
								3249	3240	3206	3196	
75	SM	6	m=44	1.0	90.0	7.80e-03		3305	3304	3303	3302	3301
								3300	3299	3298	3297	3296
								3295	3294	3293	3289	3285
								3281	3277	3257	3251	3252
								3253	3258	3278	3282	3286
								3290				
76	SM	6	m=44	1.0	90.0	7.80e-03		3291	3287	3283	3279	3275
								3254	3255	3256	3276	3280
								3284	3288	3292	3318	3317
								3316	3315	3314	3313	3312
								3311	3310	3309	3308	3307
								3306				
77	SM	11	m=1	1.0	90.0	1.25e-02		3325	3323	3321	3319	3306
								3307	3308	3309	3310	3311
								3312	3313	3314	3315	3316
								3317	3318	3320	3322	3324
								3326	3336	3335	3334	3333
								3332	3330	3329	3328	3327
78	SM	11	m=1	1.0	90.0	1.25e-02		3328	3329	3330	3332	3333
								3334	3335	3336	3339	3341
								3343	3345	3347	3356	3355
								3354	3353	3351	3350	3349
								3348	3346	3344	3342	3340
								3337	3327			
79	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3452	2873	2887		
80	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	2897	2886	3452		
81	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	2887	2888	2889	2890	2891
								2892	2893	2894	2895	2896
								2897	3452			
82	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3441	2901	2902	2903	2904
								2905	2906			
83	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	2911	3441	2906	2907	2908
								2909	2910			
84	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	2913	2914	2915	2916	2917
								3442	2912			
85	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	2917	2918	2919	2920	2921
								2922	3442			
86	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	2923	2898	2873	3452	2958
87	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	2886	2899	2900	2924	2959
								3452				
88	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3441	3011	3007	3004	2996
								2990	2925	2901		
89	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	2911	2928	2998	3008	3013
								3400	3441			
90	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3442	3401	3015	3009	2999
								2989	2912			
91	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	2922	2926	2991	2997	3005
								3010	3017	3442		
92	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3213	3203	3189	3149	3452
								3216				
93	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3150	3190	3204	3214	3234
								3452				

94	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3452	3234	3233	3232	3231
								3230	3229	3228	3227	3226
								3225	3224	3223	3222	3221
								3220	3219	3218	3217	3216
95	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3251	3464	3293	3289	3285
								3281	3277	3257		
96	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3436	3253	3258	3278	3282
								3286	3290	3305	3464	
97	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3293	3464	3299	3298	3297
								3296	3295	3294		
98	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3299	3464	3305	3304	3303
								3302	3301	3300		
99	SM	14	m=1	1.0	90.0	1.50e-02	1.20e-02	3352	3351	3350	3349	3348
								3469				
100	SM	14	m=1	1.0	90.0	1.50e-02	1.20e-02	3356	3355	3354	3353	3352
								3469				
101	SM	14	m=1	1.0	0.0	1.50e-02	1.20e-02	3466	3467	3468	3469	3348
								3346	3344	3342	3340	3337
								3327	3325	3323	3321	3319
								3306	3395	3439		
102	SM	14	m=1	1.0	0.0	1.50e-02	1.20e-02	3468	3467	3466	3440	3396
								3318	3320	3322	3324	3326
								3336	3339	3341	3343	3345
								3347	3356	3469		
103	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3444	3403	2928	2929	2930
								2931	2932	2933	2934	3404
								3445				
104	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3446	3445	3404	2934	2935
								2936	2937	2938	2939	2940
								3405				
105	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3447	3446	3405	2940	2941
								2942	2943	2944	2945	2946
								3406				
106	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3448	3447	3406	2946	2947
								2948	2949	2950	2951	2952
								3407				
107	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3407	2952	2953	2954	2955
								2956	2957	2958	3397	3408
								3449	3448			
108	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3409	3398	2959	2960	2961
								2962	2963	2964	2965	3410
								3454	3453			
109	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3410	2965	2966	2967	2968
								2969	2970	2971	3411	3455
								3454				
110	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3411	2971	2972	2973	2974
								2975	2976	2977	3412	3456
								3455				
111	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3412	2977	2978	2979	2980
								2981	2982	2983	3413	3457
								3456				
112	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3457	3413	2983	2984	2985
								2986	2987	2988	2989	3414
								3458				
113	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3460	3427	3094	3090	3067
								3061	3045	3037	3011	3399
								3441				
114	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3013	3038	3041	3047	3063
								3068	3091	3096	3377	3428
								3460	3441	3400	3375	
115	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3376	3401	3442	3461	3429
								3378	3099	3092	3071	3066
								3050	3044	3039	3015	
116	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3442	3402	3017	3040	3046
								3062	3072	3093	3101	3430
								3461				
117	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3124	3123	3122	3121	3120
								3119	3118	3379	3415	3444
								3445	3416	3380		
118	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3131	3130	3128	3127	3126
								3125	3124	3380	3416	3445
								3446	3417	3381		
119	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3137	3136	3135	3134	3133
								3132	3131	3381	3417	3446
								3447	3418	3382		
120	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3448	3419	3383	3143	3142
								3141	3140	3139	3138	3137
								3382	3418	3447		
121	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3449	3420	3384	3149	3148
								3147	3146	3145	3144	3143
								3383	3419	3448		
122	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3385	3421	3453	3454	3422
								3386	3156	3155	3154	3153
								3152	3151	3150		
123	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3455	3423	3387	3162	3161
								3160	3159	3158	3157	3156
								3386	3422	3454		
124	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3387	3423	3455	3456	3424

								3388	3168	3167	3166	3165
								3164	3163	3162		
125	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3388	3424	3456	3457	3425
								3389	3174	3173	3172	3171
								3170	3169	3168		
126	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3389	3425	3457	3458	3426
								3390	3180	3179	3178	3177
								3176	3175	3174		
127	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3462	3431	3193	3191	3181
								3112	3106	3102	3094	3427
								3460				
128	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3195	3391	3432	3462	3460
								3428	3377	3096	3103	3110
								3118	3187			
129	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3188	3180	3111	3104	3099
								3378	3429	3461	3463	3433
								3392	3196			
130	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3461	3430	3101	3105	3107
								3113	3182	3192	3198	3434
								3463				
131	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3464	3435	3251	3247	3245
								3237	3211	3200	3193	3431
								3462				
132	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3195	3205	3239	3248	3253
								3393	3436	3464	3462	3432
								3391				
133	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3392	3433	3463	3465	3437
								3394	3254	3249	3240	3206
								3196				
134	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3463	3434	3198	3201	3212
								3238	3246	3250	3256	3438
								3465				
135	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3466	3439	3395	3306	3287
								3283	3279	3254	3394	3437
								3465				
136	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3438	3256	3276	3280	3284
								3288	3292	3318	3440	3466
								3465				
137	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3408	3397	2958	3452	3451
								3450	3449			
138	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	2959	3398	3409	3453	3452
139	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3450	3451	3452	3149	3384
								3420	3449			
140	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3452	3453	3421	3385	3150

## LEGENDA TABELLA CASI DI CARICO

Il programma consente l'applicazione di diverse tipologie di casi di carico.

Sono previsti i seguenti 11 tipi di casi di carico:

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

Sono di tipo automatico **A** (ossia non prevedono introduzione dati da parte dell'utente) i seguenti casi di carico: 1-Ggk; 4-Gsk; 5-Qsk; 6-Qnk.

Sono di tipo semi-automatico **SA** (ossia prevedono una minima introduzione dati da parte dell'utente) i seguenti casi di carico:

7-Qtk, in quanto richiede solo il valore della variazione termica;

9-Esk e 10-Edk, in quanto richiedono il valore dell'angolo di ingresso del sisma e l'individuazione dei casi di carico partecipanti alla definizione delle masse.

Sono di tipo non automatico **NA** ossia prevedono la diretta applicazione di carichi generici agli elementi strutturali (si veda il precedente punto Modellazione delle Azioni) i restanti casi di carico.

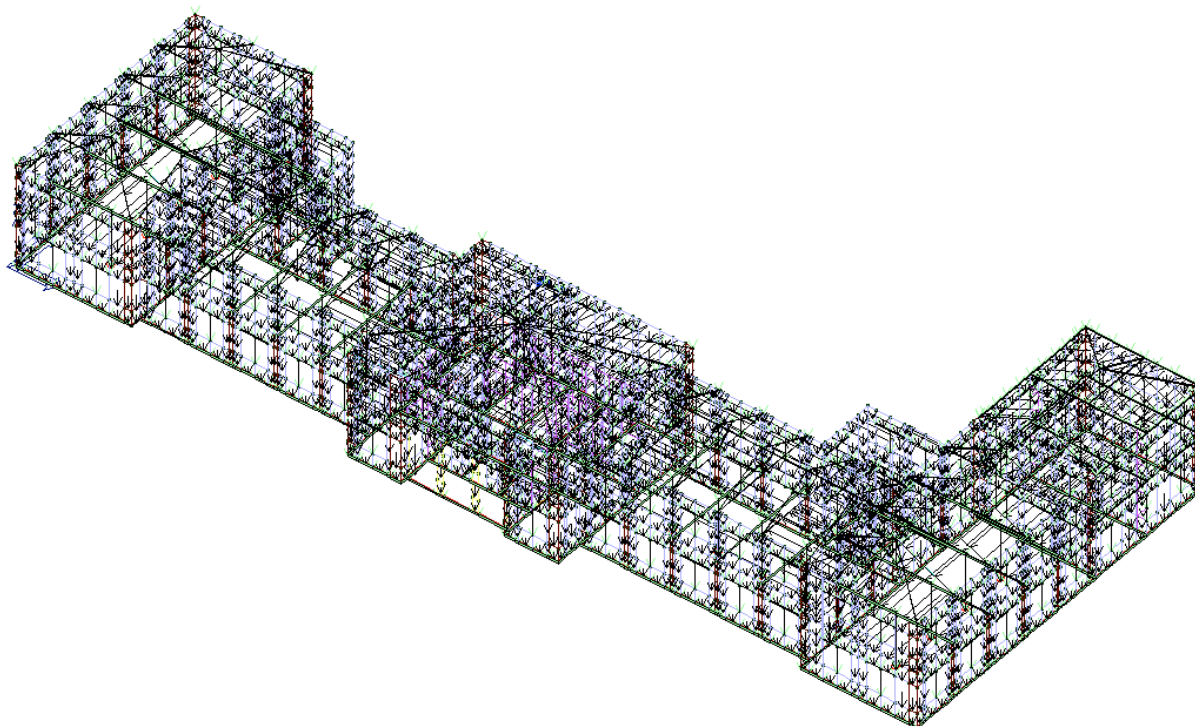
Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso:

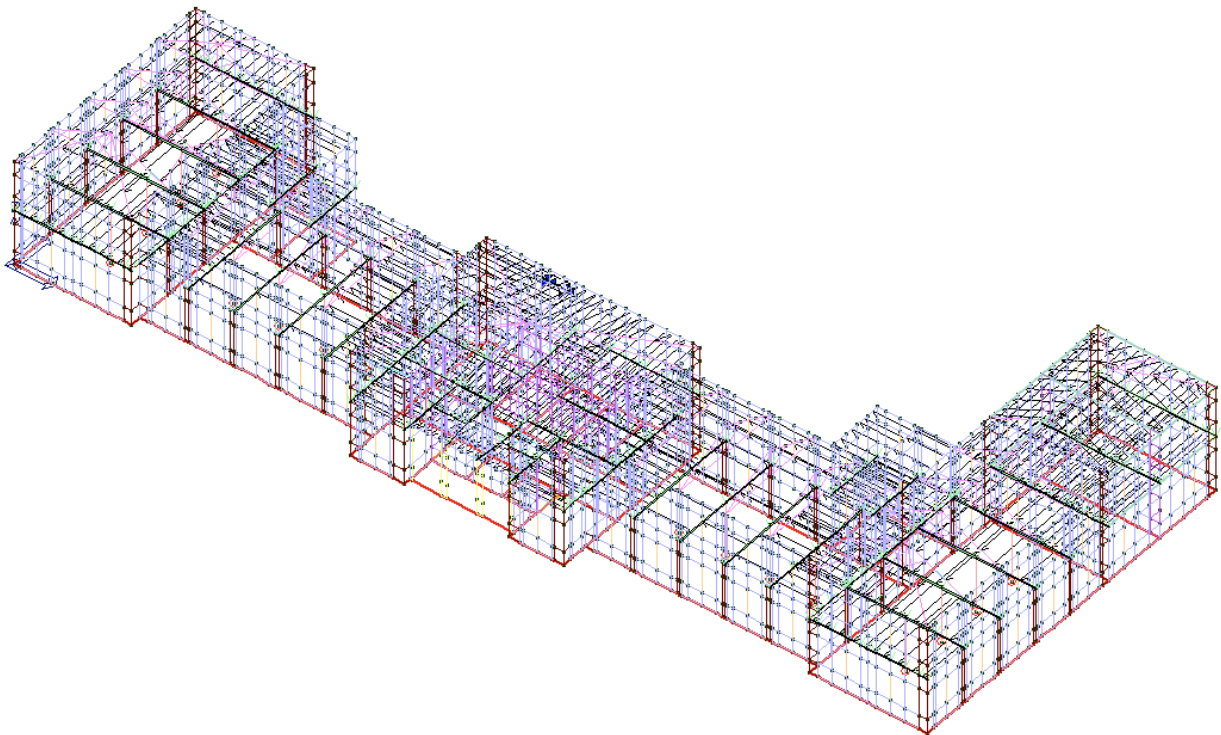
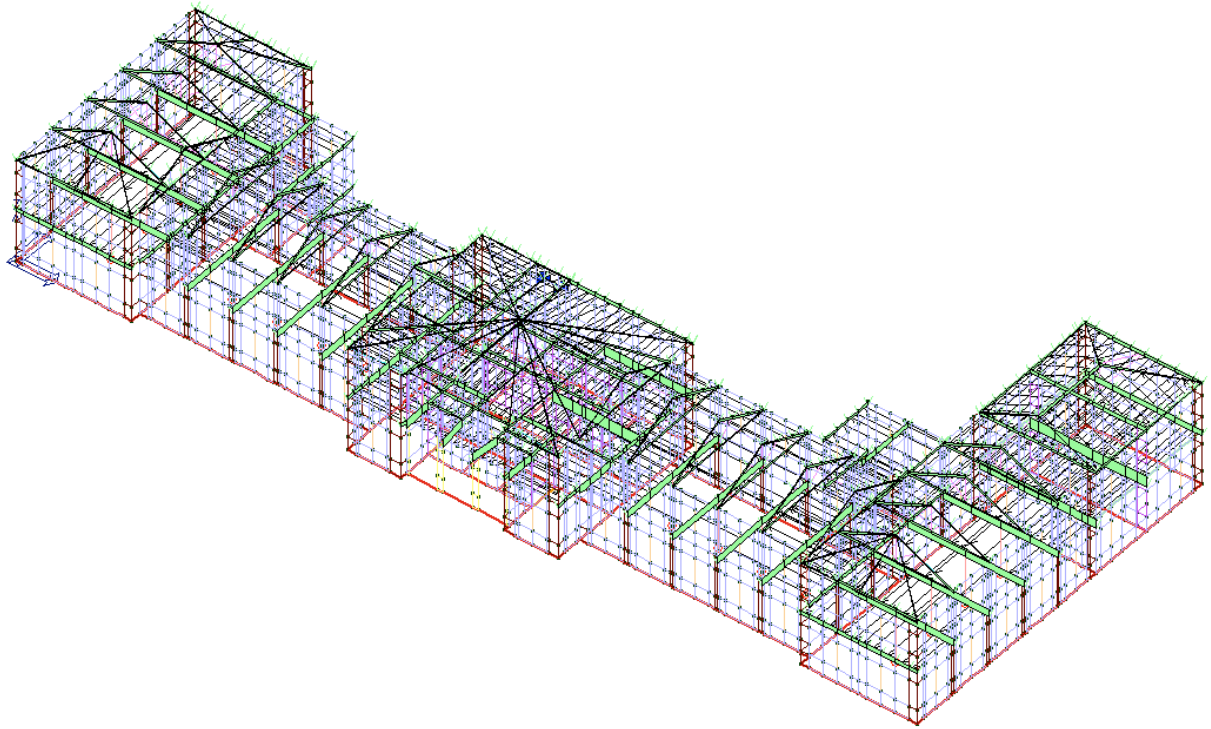
*Numero Tipo e Sigla identificativa, Valore di riferimento del caso di carico (se previsto).*

In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

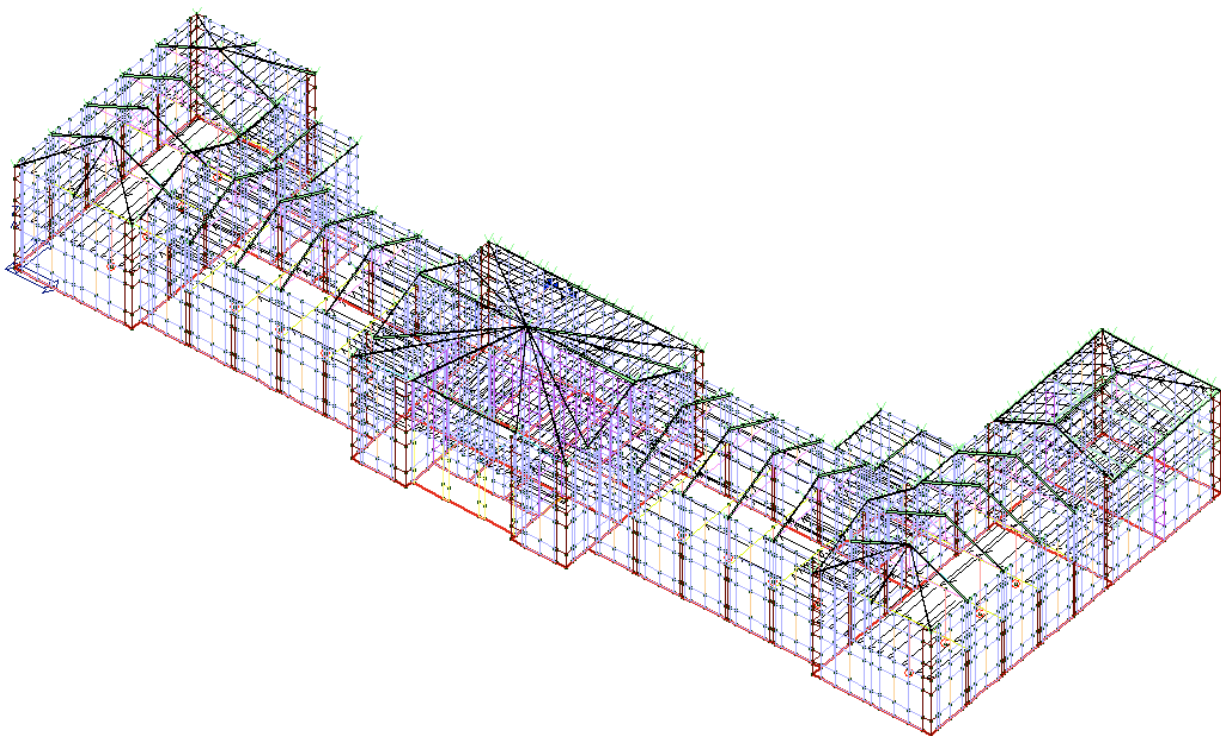
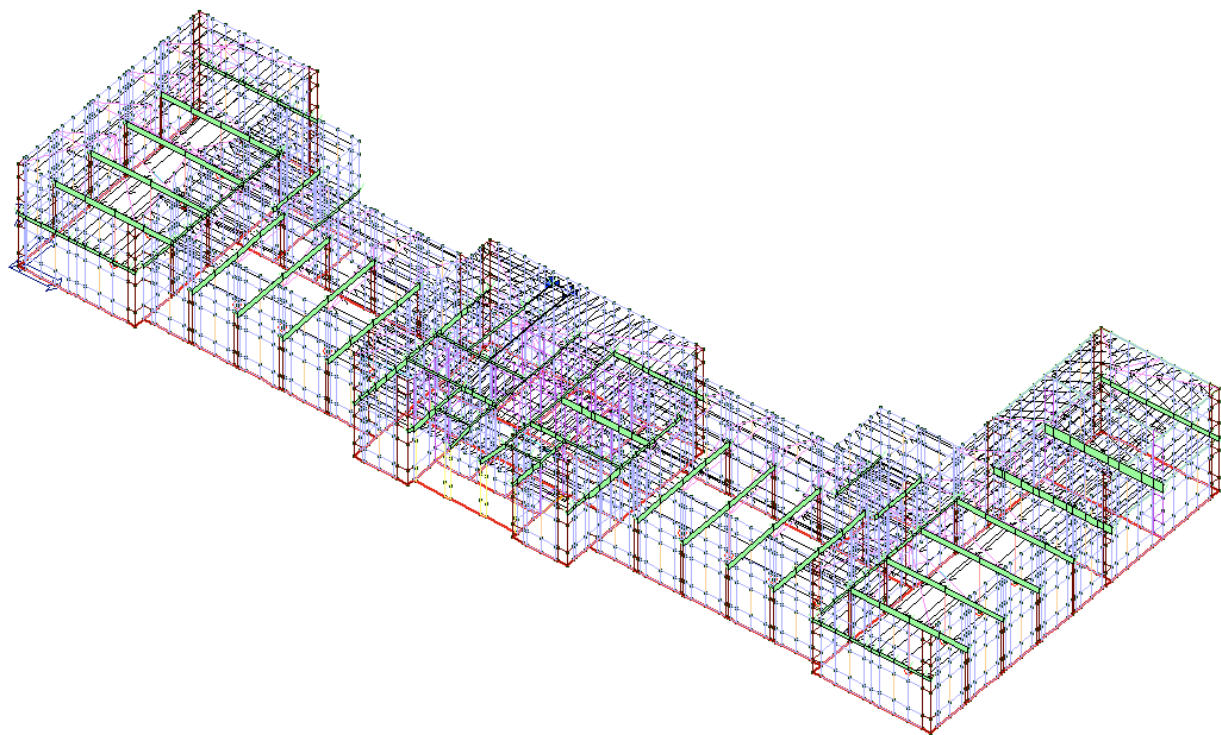
Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione è prevista localmente per ogni elemento solaio o copertura presente nel modello (si confronti il valore Sksol nel capitolo relativo agli elementi solaio) e pertanto la loro partecipazione è di norma pari a uno.

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	Gk	CDC=G2k (permanente generico n.c.d.) .....	D2 : 93 Azione : DG:Fzi=-10.00 Fzf=-10.00 scala per
			D2 :da 1294 a 1297 Azione : DG:Fzi=-10.00 Fzf=-10.00 scala per
7	Qk	CDC=Qk (variabile generico) .....	D2 : 93 Azione : DG:Fzi=-13.00 Fzf=-13.00 scala acc
			D2 :da 1294 a 1297 Azione : DG:Fzi=-13.00 Fzf=-13.00 scala acc

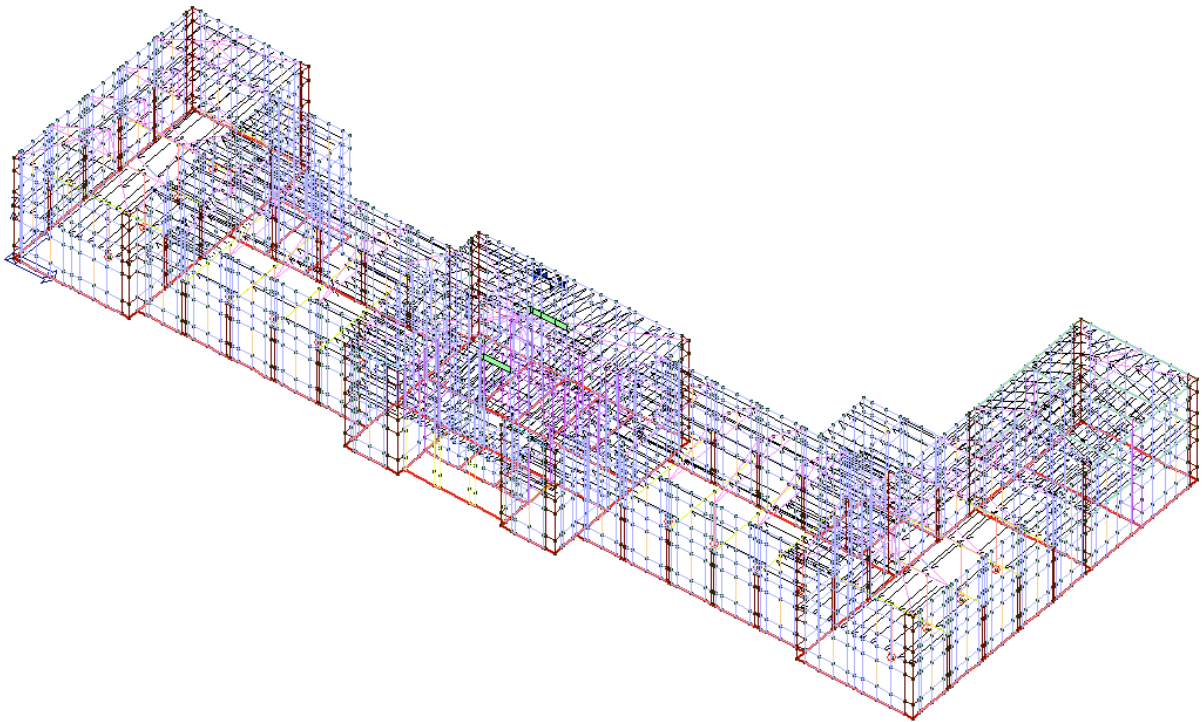
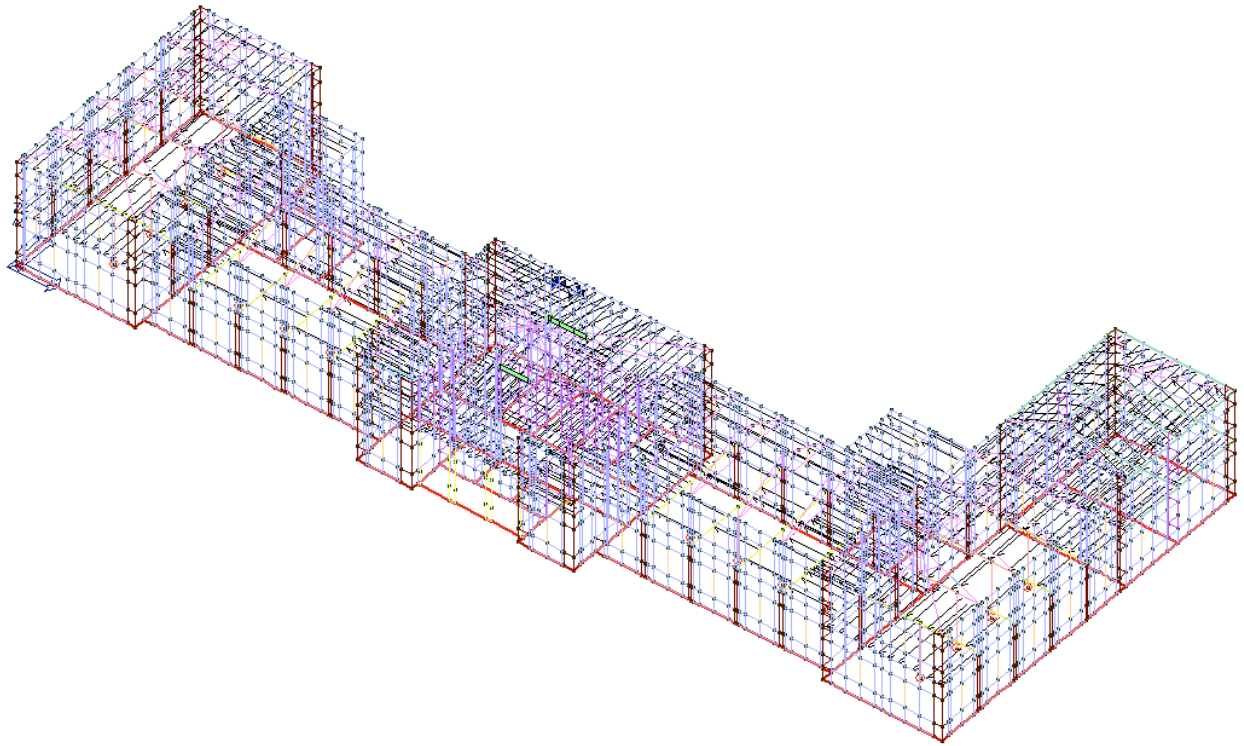












**LEGENDA TABELLA COMBINAZIONI DI CARICO**

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLE(r)	Comb. SLE(rara) 1	
2	SLE(r)	Comb. SLE(rara) 10	
3	SLE(p)	Comb. SLE(perm.) 4	

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	1.00	1.00	1.00	1.00	0.50	1.00	1.00							
2	1.00	1.00	1.00	0.70	1.00	0.70	0.70							
3	1.00	1.00	1.00	0.0	0.0	1.00	0.0							

## LEGENDA RISULTATI OPERE DI FONDAZIONE

Il controllo dei risultati delle analisi condotte, per quanto concerne le opere di fondazione, è possibile in relazione alle tabelle sottoriportate.

La prima tabella è riferita alle fondazioni tipo palo e plinto su pali.

Per questo tipo di fondazione vengono riportate le sei componenti di sollecitazione (esprese nel riferimento globale della struttura) per ogni palo componente l'opera.

In particolare viene riportato:

<b>Nodo</b>	numero del nodo a cui è applicato il plinto
<b>Tipo</b>	codice corrispondente al nome assegnato al tipo di plinto di fondazione: 3) palo singolo (PALO) 4) plinto su palo 5) plinto su due pali (PL.2P) 6) plinto su tre pali (PL.3P) 7) plinto su quattro pali (PL.4P) 8) plinto rettangolare su cinque pali (PL.5P.R) 9) plinto pentagonale su cinque pali (PL.5P) 10) plinto su sei pali (PL.6P)
<b>Palo</b>	numero del palo
<b>Comb.</b>	combinazione di carico in cui si verificano le sei componenti di sollecitazione.
<b>Quota</b>	quota assoluta della sezione del palo per cui si riportano le sei componenti di sollecitazione.

L'azione Fz ( corrispondente allo sforzo normale nel palo) è costante poiché il peso del palo stesso non è considerato nella modellazione.

La seconda tabella è riferita alle fondazioni tipo plinto su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni nei quattro vertici dell'impronta sul terreno.

In particolare viene riportato:

<b>Nodo</b>	numero del nodo a cui è applicato il plinto
<b>Tipo</b>	Codice identificativo del nome assegnato al plinto
<b>area</b>	area dell'impronta del plinto
<b>Wink O Wink V</b>	coefficienti di Winkler (orizzontale e verticale) adottati
<b>Comb</b>	Combinazione di carico in cui si verificano i valori riportati
<b>Pt (P1 P2 P3 P4)</b>	valori di pressione nei vertici

La terza tabella è riferita alle fondazioni tipo platea su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni in ogni vertice (nodo) degli elementi costituenti la platea.

La quarta tabella è riferita alle fondazioni tipo trave su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni alle estremità dell'elemento e la massima (in valore assoluto) pressione lungo lo sviluppo dell'elemento.

Vengono inoltre riportati, con funzione statistica, i valori massimo e minimo delle pressioni che compaiono nella tabella.

Nodo	Tipo	Area	Wink V	Wink O	Cmb	Pt	Pt	Pt	Pt
		m2	daN/cm3	daN/cm3		daN/cm2	daN/cm2	daN/cm2	daN/cm2
150	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-3.01	-3.00	-2.99	-3.01
					2	-2.81	-2.80	-2.79	-2.80
					3	-2.22	-2.21	-2.21	-2.22
154	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-2.99	-3.00	-3.00	-2.99
					2	-2.79	-2.80	-2.80	-2.79
					3	-2.20	-2.21	-2.21	-2.20
190	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-2.96	-2.95	-2.93	-2.93
					2	-2.77	-2.76	-2.73	-2.74

Nodo	Tipo	Area	Wink V	Wink O	Cmb	Pt	Pt	Pt	Pt
191	PLINTO 75.00 x75.00	0.56	1.00	1.00	3	-2.19	-2.18	-2.16	-2.17
					1	-2.92	-2.91	-2.88	-2.89
					2	-2.73	-2.72	-2.68	-2.69
					3	-2.16	-2.15	-2.13	-2.13
192	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-2.93	-2.92	-2.89	-2.90
					2	-2.72	-2.71	-2.69	-2.70
					3	-2.15	-2.14	-2.12	-2.13
193	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-2.90	-2.89	-2.89	-2.90
					2	-2.70	-2.68	-2.68	-2.69
					3	-2.13	-2.12	-2.12	-2.12
194	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-2.88	-2.89	-2.88	-2.88
					2	-2.67	-2.68	-2.68	-2.67
					3	-2.11	-2.11	-2.11	-2.10
195	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-2.91	-2.91	-2.89	-2.88
					2	-2.70	-2.71	-2.69	-2.68
					3	-2.13	-2.13	-2.12	-2.11
196	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-2.90	-2.91	-2.88	-2.87
					2	-2.70	-2.71	-2.68	-2.67
					3	-2.14	-2.14	-2.12	-2.12
197	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-2.95	-2.96	-2.93	-2.93
					2	-2.76	-2.76	-2.74	-2.73
					3	-2.18	-2.18	-2.17	-2.16
231	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-2.96	-2.95	-2.94	-2.95
					2	-2.76	-2.75	-2.74	-2.75
					3	-2.19	-2.17	-2.17	-2.18
234	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-2.96	-2.97	-2.97	-2.95
					2	-2.75	-2.77	-2.76	-2.75
					3	-2.18	-2.19	-2.18	-2.17
331	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-3.01	-2.99	-2.98	-3.00
					2	-2.80	-2.78	-2.77	-2.79
					3	-2.21	-2.19	-2.18	-2.20
332	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-3.00	-3.02	-3.02	-2.99
					2	-2.79	-2.81	-2.81	-2.78
					3	-2.20	-2.22	-2.21	-2.20
387	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-2.87	-2.86	-2.85	-2.86
					2	-2.68	-2.67	-2.66	-2.67
					3	-2.13	-2.12	-2.11	-2.12
390	PLINTO 75.00 x75.00	0.56	1.00	1.00	1	-2.88	-2.90	-2.90	-2.88
					2	-2.69	-2.71	-2.71	-2.69
					3	-2.14	-2.15	-2.15	-2.14
<b>Nodo</b>						<b>Pt</b>	<b>Pt</b>	<b>Pt</b>	<b>Pt</b>
						-3.02			
						-2.10			

Elem.	Cmb	Pt ini daN/cm2	Pt fin daN/cm2	Pt max daN/cm2	Cmb	Pt ini daN/cm2	Pt fin daN/cm2	Pt max daN/cm2	Cmb	Pt ini daN/cm2	Pt fin daN/cm2	Pt max daN/cm2
96	1	-1.55	-1.53	-1.55	2	-1.54	-1.52	-1.54	3	-1.36	-1.34	-1.36
97	1	-1.53	-1.52	-1.53	2	-1.52	-1.52	-1.54	3	-1.34	-1.34	-1.34
98	1	-1.52	-1.50	-1.52	2	-1.52	-1.49	-1.51	3	-1.34	-1.31	-1.34
99	1	-1.50	-1.47	-1.49	2	-1.49	-1.46	-1.48	3	-1.31	-1.29	-1.31
100	1	-1.47	-1.46	-1.47	2	-1.46	-1.45	-1.46	3	-1.29	-1.29	-1.29
101	1	-1.46	-1.45	-1.46	2	-1.45	-1.43	-1.45	3	-1.29	-1.27	-1.29
102	1	-1.38	-1.40	-1.40	2	-1.37	-1.39	-1.39	3	-1.21	-1.23	-1.23
103	1	-1.40	-1.40	-1.40	2	-1.39	-1.39	-1.39	3	-1.23	-1.23	-1.23
104	1	-1.40	-1.43	-1.43	2	-1.39	-1.42	-1.42	3	-1.23	-1.25	-1.25
105	1	-1.43	-1.46	-1.46	2	-1.42	-1.45	-1.45	3	-1.25	-1.28	-1.28
106	1	-1.46	-1.47	-1.47	2	-1.45	-1.46	-1.46	3	-1.28	-1.28	-1.28
107	1	-1.47	-1.48	-1.48	2	-1.46	-1.48	-1.48	3	-1.28	-1.29	-1.29
108	1	-1.45	-1.44	-1.45	2	-1.43	-1.42	-1.43	3	-1.27	-1.26	-1.27
109	1	-1.38	-1.37	-1.38	2	-1.37	-1.36	-1.37	3	-1.21	-1.20	-1.21
110	1	-1.55	-1.55	-1.55	2	-1.55	-1.54	-1.54	3	-1.36	-1.36	-1.36
111	1	-1.49	-1.49	-1.49	2	-1.48	-1.48	-1.48	3	-1.30	-1.30	-1.30
112	1	-1.43	-1.43	-1.43	2	-1.42	-1.41	-1.42	3	-1.26	-1.25	-1.26
113	1	-1.43	-1.33	-1.42	2	-1.41	-1.31	-1.41	3	-1.25	-1.17	-1.25
114	1	-1.33	-1.31	-1.33	2	-1.31	-1.30	-1.31	3	-1.17	-1.16	-1.17
115	1	-1.31	-1.29	-1.31	2	-1.30	-1.28	-1.30	3	-1.16	-1.14	-1.15
116	1	-1.29	-1.30	-1.30	2	-1.28	-1.29	-1.29	3	-1.14	-1.14	-1.14
117	1	-1.30	-1.37	-1.37	2	-1.29	-1.35	-1.35	3	-1.14	-1.20	-1.20
118	1	-1.37	-1.37	-1.37	2	-1.35	-1.36	-1.36	3	-1.20	-1.20	-1.20
119	1	-1.49	-1.49	-1.49	2	-1.48	-1.48	-1.48	3	-1.30	-1.30	-1.30
120	1	-1.55	-1.55	-1.55	2	-1.54	-1.54	-1.54	3	-1.36	-1.36	-1.36
121	1	-1.44	-1.42	-1.43	2	-1.42	-1.40	-1.42	3	-1.26	-1.24	-1.26
122	1	-1.37	-1.35	-1.37	2	-1.36	-1.33	-1.35	3	-1.20	-1.18	-1.20
123	1	-1.49	-1.50	-1.50	2	-1.48	-1.49	-1.49	3	-1.30	-1.30	-1.30
124	1	-1.84	-1.83	-1.84	2	-1.83	-1.83	-1.83	3	-1.60	-1.59	-1.60
125	1	-1.83	-1.83	-1.83	2	-1.83	-1.83	-1.83	3	-1.59	-1.59	-1.59
126	1	-1.83	-1.84	-1.84	2	-1.83	-1.84	-1.84	3	-1.59	-1.60	-1.60
127	1	-1.84	-1.85	-1.85	2	-1.84	-1.85	-1.85	3	-1.60	-1.60	-1.60

128	1	-1.85	-1.86	-1.86	2	-1.85	-1.85	-1.85	3	-1.60	-1.61	-1.61
129	1	-1.86	-1.86	-1.86	2	-1.85	-1.86	-1.86	3	-1.61	-1.61	-1.61
130	1	-1.86	-1.88	-1.88	2	-1.86	-1.88	-1.88	3	-1.61	-1.63	-1.63
131	1	-1.88	-1.91	-1.91	2	-1.88	-1.90	-1.90	3	-1.63	-1.64	-1.64
132	1	-1.91	-1.92	-1.92	2	-1.90	-1.92	-1.92	3	-1.64	-1.66	-1.66
133	1	-1.92	-1.93	-1.93	2	-1.92	-1.93	-1.93	3	-1.66	-1.66	-1.66
134	1	-1.89	-1.88	-1.89	2	-1.89	-1.88	-1.89	3	-1.62	-1.62	-1.62
135	1	-1.88	-1.87	-1.88	2	-1.88	-1.86	-1.88	3	-1.62	-1.60	-1.62
136	1	-1.87	-1.85	-1.87	2	-1.86	-1.85	-1.86	3	-1.60	-1.59	-1.60
137	1	-1.85	-1.83	-1.85	2	-1.85	-1.83	-1.84	3	-1.59	-1.58	-1.59
138	1	-1.83	-1.83	-1.83	2	-1.83	-1.82	-1.83	3	-1.58	-1.57	-1.58
139	1	-1.83	-1.82	-1.83	2	-1.82	-1.82	-1.82	3	-1.57	-1.57	-1.57
140	1	-1.82	-1.81	-1.82	2	-1.82	-1.81	-1.82	3	-1.57	-1.57	-1.57
141	1	-1.81	-1.81	-1.81	2	-1.81	-1.81	-1.81	3	-1.57	-1.56	-1.56
142	1	-1.81	-1.81	-1.81	2	-1.81	-1.81	-1.81	3	-1.56	-1.56	-1.56
143	1	-1.81	-1.81	-1.81	2	-1.81	-1.81	-1.81	3	-1.56	-1.57	-1.57
144	1	-1.84	-1.83	-1.84	2	-1.83	-1.83	-1.83	3	-1.60	-1.59	-1.60
145	1	-1.81	-1.81	-1.81	2	-1.81	-1.81	-1.81	3	-1.57	-1.57	-1.57
146	1	-1.93	-1.91	-1.93	2	-1.93	-1.91	-1.92	3	-1.66	-1.65	-1.66
147	1	-1.89	-1.88	-1.89	2	-1.88	-1.88	-1.88	3	-1.62	-1.62	-1.62
148	1	-1.55	-1.55	-1.55	2	-1.54	-1.54	-1.54	3	-1.36	-1.36	-1.36
149	1	-1.50	-1.50	-1.50	2	-1.49	-1.49	-1.49	3	-1.30	-1.30	-1.30
150	1	-1.83	-1.83	-1.83	2	-1.83	-1.82	-1.83	3	-1.59	-1.59	-1.59
151	1	-1.81	-1.81	-1.81	2	-1.81	-1.81	-1.81	3	-1.57	-1.56	-1.57
152	1	-1.92	-1.91	-1.92	2	-1.91	-1.91	-1.91	3	-1.65	-1.65	-1.65
153	1	-1.91	-1.91	-1.91	2	-1.91	-1.90	-1.91	3	-1.65	-1.64	-1.65
154	1	-1.91	-1.90	-1.91	2	-1.90	-1.89	-1.90	3	-1.64	-1.63	-1.64
155	1	-1.90	-1.89	-1.90	2	-1.89	-1.88	-1.90	3	-1.63	-1.62	-1.63
156	1	-1.89	-1.89	-1.89	2	-1.88	-1.88	-1.88	3	-1.62	-1.62	-1.62
157	1	-1.89	-1.89	-1.89	2	-1.88	-1.88	-1.88	3	-1.62	-1.62	-1.62
158	1	-1.89	-1.88	-1.89	2	-1.88	-1.88	-1.88	3	-1.62	-1.62	-1.62
159	1	-1.88	-1.88	-1.88	2	-1.88	-1.87	-1.88	3	-1.62	-1.61	-1.61
160	1	-1.88	-1.86	-1.88	2	-1.87	-1.86	-1.87	3	-1.61	-1.60	-1.61
161	1	-1.86	-1.85	-1.86	2	-1.86	-1.84	-1.86	3	-1.60	-1.59	-1.60
162	1	-1.85	-1.85	-1.85	2	-1.84	-1.84	-1.84	3	-1.59	-1.58	-1.59
163	1	-1.85	-1.84	-1.85	2	-1.84	-1.83	-1.84	3	-1.58	-1.58	-1.58
164	1	-1.84	-1.84	-1.84	2	-1.83	-1.83	-1.83	3	-1.58	-1.58	-1.58
165	1	-1.84	-1.83	-1.84	2	-1.83	-1.82	-1.83	3	-1.58	-1.57	-1.58
166	1	-1.83	-1.81	-1.83	2	-1.82	-1.80	-1.82	3	-1.57	-1.55	-1.57
167	1	-1.81	-1.79	-1.81	2	-1.80	-1.78	-1.80	3	-1.55	-1.53	-1.55
168	1	-1.79	-1.78	-1.79	2	-1.78	-1.77	-1.78	3	-1.53	-1.53	-1.53
169	1	-1.78	-1.77	-1.78	2	-1.77	-1.77	-1.77	3	-1.53	-1.52	-1.53
170	1	-1.77	-1.77	-1.77	2	-1.77	-1.76	-1.76	3	-1.52	-1.52	-1.52
171	1	-1.77	-1.76	-1.77	2	-1.76	-1.75	-1.76	3	-1.52	-1.51	-1.52
172	1	-1.76	-1.73	-1.76	2	-1.75	-1.72	-1.75	3	-1.51	-1.49	-1.51
173	1	-1.73	-1.69	-1.72	2	-1.72	-1.68	-1.71	3	-1.49	-1.46	-1.48
174	1	-1.69	-1.68	-1.69	2	-1.68	-1.67	-1.68	3	-1.46	-1.45	-1.46
175	1	-1.68	-1.68	-1.68	2	-1.67	-1.67	-1.67	3	-1.45	-1.45	-1.45
176	1	-1.68	-1.67	-1.68	2	-1.67	-1.66	-1.67	3	-1.45	-1.44	-1.45
177	1	-1.67	-1.65	-1.67	2	-1.66	-1.64	-1.66	3	-1.44	-1.43	-1.44
178	1	-1.65	-1.61	-1.65	2	-1.64	-1.60	-1.64	3	-1.43	-1.40	-1.43
179	1	-1.61	-1.58	-1.61	2	-1.60	-1.56	-1.60	3	-1.40	-1.38	-1.40
180	1	-1.58	-1.57	-1.57	2	-1.56	-1.56	-1.56	3	-1.38	-1.37	-1.38
181	1	-1.57	-1.55	-1.57	2	-1.56	-1.54	-1.56	3	-1.37	-1.36	-1.37
182	1	-1.49	-1.51	-1.51	2	-1.48	-1.50	-1.50	3	-1.30	-1.31	-1.31
183	1	-1.51	-1.52	-1.52	2	-1.50	-1.51	-1.51	3	-1.31	-1.32	-1.32
184	1	-1.52	-1.56	-1.56	2	-1.51	-1.55	-1.55	3	-1.32	-1.35	-1.35
185	1	-1.56	-1.61	-1.61	2	-1.55	-1.60	-1.60	3	-1.35	-1.39	-1.39
186	1	-1.61	-1.62	-1.62	2	-1.60	-1.61	-1.61	3	-1.39	-1.40	-1.40
187	1	-1.62	-1.63	-1.63	2	-1.61	-1.62	-1.62	3	-1.40	-1.40	-1.40
188	1	-1.63	-1.64	-1.64	2	-1.62	-1.63	-1.63	3	-1.40	-1.41	-1.41
189	1	-1.64	-1.65	-1.65	2	-1.63	-1.64	-1.64	3	-1.41	-1.42	-1.42
190	1	-1.65	-1.68	-1.68	2	-1.64	-1.67	-1.67	3	-1.42	-1.44	-1.44
191	1	-1.68	-1.72	-1.72	2	-1.67	-1.71	-1.71	3	-1.44	-1.47	-1.47
192	1	-1.72	-1.73	-1.73	2	-1.71	-1.72	-1.72	3	-1.47	-1.48	-1.48
193	1	-1.73	-1.73	-1.73	2	-1.72	-1.73	-1.73	3	-1.48	-1.49	-1.49
194	1	-1.73	-1.74	-1.74	2	-1.73	-1.73	-1.73	3	-1.49	-1.49	-1.49
195	1	-1.74	-1.75	-1.75	2	-1.73	-1.74	-1.74	3	-1.49	-1.50	-1.50
196	1	-1.75	-1.77	-1.77	2	-1.74	-1.76	-1.76	3	-1.50	-1.51	-1.51
197	1	-1.77	-1.79	-1.79	2	-1.76	-1.79	-1.79	3	-1.51	-1.53	-1.53
198	1	-1.79	-1.80	-1.80	2	-1.79	-1.80	-1.80	3	-1.53	-1.54	-1.54
199	1	-1.80	-1.81	-1.81	2	-1.80	-1.80	-1.80	3	-1.54	-1.54	-1.54
200	1	-1.81	-1.81	-1.81	2	-1.80	-1.80	-1.80	3	-1.54	-1.55	-1.55
201	1	-1.81	-1.82	-1.82	2	-1.80	-1.81	-1.81	3	-1.55	-1.55	-1.55
202	1	-1.82	-1.83	-1.83	2	-1.81	-1.82	-1.82	3	-1.55	-1.56	-1.56
203	1	-1.83	-1.84	-1.84	2	-1.82	-1.84	-1.84	3	-1.56	-1.58	-1.58
204	1	-1.84	-1.85	-1.85	2	-1.84	-1.84	-1.84	3	-1.58	-1.58	-1.58
205	1	-1.85	-1.85	-1.85	2	-1.84	-1.85	-1.85	3	-1.58	-1.58	-1.58
206	1	-1.85	-1.85	-1.85	2	-1.85	-1.85	-1.85	3	-1.58	-1.59	-1.59
207	1	-1.85	-1.86	-1.86	2	-1.85	-1.85	-1.85	3	-1.59	-1.59	-1.59
208	1	-1.86	-1.86	-1.86	2	-1.85	-1.86	-1.86	3	-1.59	-1.60	-1.60
209	1	-1.86	-1.87	-1.87	2	-1.86	-1.87	-1.87	3	-1.60	-1.61	-1.61
210	1	-1.87	-1.88	-1.88	2	-1.87	-1.87	-1.87	3	-1.61	-1.61	-1.61
211	1	-1.88	-1.88	-1.88	2	-1.87	-1.88	-1.88	3	-1.61	-1.62	-1.62
212	1	-1.42	-1.41	-1.42	2	-1.40	-1.39	-1.40	3	-1.24	-1.24	-1.24
213	1	-1.35	-1.34	-1.35	2	-1.33	-1.32	-1.33	3	-1.18	-1.17	-1.18
214	1	-1.41	-1.39	-1.41	2	-1.39	-1.37	-1.39	3	-1.24	-1.22	-1.23
215	1	-1.39	-1.36	-1.39	2	-1.37	-1.34	-1.36	3	-1.22	-1.19	-1.21

216	1	-1.36	-1.35	-1.36	2	-1.34	-1.32	-1.34	3	-1.19	-1.18	-1.19
217	1	-1.35	-1.34	-1.35	2	-1.32	-1.31	-1.32	3	-1.18	-1.17	-1.18
218	1	-1.34	-1.32	-1.33	2	-1.31	-1.29	-1.31	3	-1.17	-1.15	-1.16
219	1	-1.32	-1.32	-1.32	2	-1.29	-1.30	-1.30	3	-1.15	-1.15	-1.15
220	1	-1.32	-1.33	-1.33	2	-1.30	-1.30	-1.30	3	-1.15	-1.16	-1.16
221	1	-1.33	-1.33	-1.33	2	-1.30	-1.31	-1.31	3	-1.16	-1.16	-1.16
222	1	-1.33	-1.34	-1.34	2	-1.31	-1.32	-1.32	3	-1.16	-1.17	-1.17
223	1	-1.55	-1.55	-1.55	2	-1.54	-1.54	-1.54	3	-1.36	-1.36	-1.36
224	1	-1.50	-1.50	-1.50	2	-1.49	-1.49	-1.49	3	-1.30	-1.30	-1.30
225	1	-1.83	-1.82	-1.83	2	-1.82	-1.82	-1.82	3	-1.59	-1.58	-1.59
226	1	-1.81	-1.81	-1.81	2	-1.81	-1.81	-1.81	3	-1.56	-1.56	-1.56
227	1	-1.91	-1.90	-1.91	2	-1.91	-1.89	-1.91	3	-1.65	-1.64	-1.65
228	1	-1.88	-1.88	-1.88	2	-1.88	-1.87	-1.88	3	-1.62	-1.61	-1.61
229	1	-1.35	-1.35	-1.35	2	-1.33	-1.32	-1.32	3	-1.18	-1.18	-1.18
230	1	-1.33	-1.33	-1.33	2	-1.30	-1.30	-1.30	3	-1.15	-1.16	-1.16
231	1	-1.41	-1.40	-1.41	2	-1.39	-1.38	-1.39	3	-1.24	-1.23	-1.24
232	1	-1.34	-1.34	-1.34	2	-1.32	-1.32	-1.32	3	-1.17	-1.17	-1.17
233	1	-1.55	-1.55	-1.55	2	-1.54	-1.53	-1.54	3	-1.36	-1.35	-1.36
234	1	-1.50	-1.50	-1.50	2	-1.49	-1.48	-1.49	3	-1.30	-1.30	-1.30
235	1	-1.82	-1.82	-1.82	2	-1.82	-1.82	-1.82	3	-1.58	-1.58	-1.58
236	1	-1.81	-1.82	-1.82	2	-1.81	-1.81	-1.81	3	-1.56	-1.57	-1.57
237	1	-1.90	-1.88	-1.90	2	-1.89	-1.88	-1.89	3	-1.64	-1.62	-1.64
238	1	-1.88	-1.87	-1.88	2	-1.87	-1.86	-1.87	3	-1.61	-1.60	-1.61
239	1	-1.35	-1.35	-1.35	2	-1.32	-1.32	-1.32	3	-1.18	-1.18	-1.18
240	1	-1.33	-1.34	-1.34	2	-1.30	-1.31	-1.31	3	-1.16	-1.16	-1.16
241	1	-1.40	-1.40	-1.40	2	-1.38	-1.37	-1.38	3	-1.23	-1.22	-1.23
242	1	-1.82	-1.82	-1.82	2	-1.82	-1.82	-1.82	3	-1.58	-1.58	-1.58
243	1	-1.34	-1.36	-1.36	2	-1.32	-1.34	-1.34	3	-1.17	-1.18	-1.18
244	1	-1.82	-1.82	-1.82	2	-1.81	-1.81	-1.81	3	-1.57	-1.57	-1.57
245	1	-1.55	-1.54	-1.55	2	-1.53	-1.52	-1.53	3	-1.35	-1.34	-1.35
246	1	-1.50	-1.49	-1.50	2	-1.48	-1.48	-1.48	3	-1.30	-1.30	-1.30
247	1	-1.35	-1.35	-1.35	2	-1.32	-1.32	-1.32	3	-1.18	-1.18	-1.18
248	1	-1.34	-1.34	-1.34	2	-1.31	-1.31	-1.31	3	-1.16	-1.17	-1.17
249	1	-1.82	-1.82	-1.82	2	-1.82	-1.82	-1.82	3	-1.58	-1.58	-1.58
250	1	-1.88	-1.88	-1.88	2	-1.88	-1.87	-1.88	3	-1.62	-1.62	-1.62
251	1	-1.87	-1.87	-1.87	2	-1.86	-1.86	-1.86	3	-1.60	-1.60	-1.60
252	1	-1.82	-1.82	-1.82	2	-1.81	-1.82	-1.82	3	-1.57	-1.57	-1.57
253	1	-1.36	-1.37	-1.37	2	-1.34	-1.34	-1.34	3	-1.18	-1.19	-1.19
254	1	-1.35	-1.35	-1.35	2	-1.32	-1.32	-1.32	3	-1.18	-1.18	-1.18
255	1	-1.82	-1.82	-1.82	2	-1.82	-1.82	-1.82	3	-1.58	-1.58	-1.58
256	1	-1.88	-1.87	-1.88	2	-1.87	-1.87	-1.87	3	-1.62	-1.61	-1.62
257	1	-1.87	-1.86	-1.87	2	-1.86	-1.86	-1.86	3	-1.60	-1.60	-1.60
258	1	-1.82	-1.82	-1.82	2	-1.82	-1.82	-1.82	3	-1.57	-1.57	-1.57
259	1	-1.53	-1.51	-1.53	2	-1.52	-1.50	-1.52	3	-1.34	-1.32	-1.34
260	1	-1.51	-1.49	-1.51	2	-1.50	-1.47	-1.49	3	-1.32	-1.30	-1.32
261	1	-1.49	-1.44	-1.48	2	-1.47	-1.42	-1.46	3	-1.30	-1.26	-1.30
262	1	-1.44	-1.42	-1.44	2	-1.42	-1.40	-1.42	3	-1.26	-1.24	-1.26
263	1	-1.42	-1.39	-1.42	2	-1.40	-1.37	-1.39	3	-1.24	-1.22	-1.24
264	1	-1.39	-1.39	-1.39	2	-1.37	-1.36	-1.37	3	-1.22	-1.21	-1.22
265	1	-1.39	-1.37	-1.39	2	-1.36	-1.35	-1.36	3	-1.21	-1.20	-1.21
266	1	-1.37	-1.35	-1.37	2	-1.35	-1.32	-1.34	3	-1.20	-1.18	-1.20
267	1	-1.35	-1.35	-1.35	2	-1.32	-1.32	-1.32	3	-1.18	-1.18	-1.18
268	1	-1.35	-1.34	-1.35	2	-1.32	-1.31	-1.32	3	-1.18	-1.17	-1.18
270	1	-1.34	-1.34	-1.34	2	-1.32	-1.32	-1.32	3	-1.17	-1.17	-1.17
271	1	-1.34	-1.35	-1.35	2	-1.32	-1.33	-1.33	3	-1.17	-1.18	-1.18
272	1	-1.35	-1.37	-1.37	2	-1.33	-1.35	-1.35	3	-1.18	-1.19	-1.19
273	1	-1.37	-1.39	-1.39	2	-1.35	-1.37	-1.37	3	-1.19	-1.21	-1.21
274	1	-1.39	-1.41	-1.41	2	-1.37	-1.39	-1.39	3	-1.21	-1.22	-1.22
275	1	-1.41	-1.44	-1.44	2	-1.39	-1.43	-1.43	3	-1.22	-1.26	-1.26
276	1	-1.44	-1.47	-1.47	2	-1.43	-1.45	-1.45	3	-1.26	-1.28	-1.28
277	1	-1.47	-1.49	-1.49	2	-1.45	-1.47	-1.47	3	-1.28	-1.29	-1.29
278	1	-1.54	-1.53	-1.54	2	-1.52	-1.52	-1.52	3	-1.34	-1.34	-1.34
279	1	-1.49	-1.49	-1.49	2	-1.48	-1.48	-1.48	3	-1.30	-1.29	-1.30
280	1	-1.87	-1.87	-1.87	2	-1.87	-1.86	-1.87	3	-1.61	-1.61	-1.61
281	1	-1.86	-1.86	-1.86	2	-1.86	-1.85	-1.86	3	-1.60	-1.59	-1.60
282	1	-1.82	-1.82	-1.82	2	-1.82	-1.81	-1.82	3	-1.58	-1.57	-1.58
283	1	-1.82	-1.82	-1.82	2	-1.82	-1.81	-1.82	3	-1.57	-1.57	-1.57
284	1	-1.87	-1.85	-1.87	2	-1.86	-1.84	-1.86	3	-1.61	-1.59	-1.61
285	1	-1.53	-1.52	-1.53	2	-1.52	-1.50	-1.52	3	-1.34	-1.33	-1.34
286	1	-1.49	-1.48	-1.49	2	-1.48	-1.47	-1.47	3	-1.29	-1.29	-1.29
287	1	-1.86	-1.85	-1.86	2	-1.85	-1.84	-1.85	3	-1.59	-1.58	-1.59
288	1	-1.82	-1.82	-1.82	2	-1.81	-1.81	-1.81	3	-1.57	-1.57	-1.57
289	1	-1.82	-1.83	-1.83	2	-1.81	-1.82	-1.82	3	-1.57	-1.57	-1.57
290	1	-1.85	-1.85	-1.85	2	-1.84	-1.84	-1.84	3	-1.59	-1.59	-1.59
291	1	-1.52	-1.52	-1.52	2	-1.50	-1.50	-1.50	3	-1.33	-1.33	-1.33
292	1	-1.48	-1.48	-1.48	2	-1.47	-1.47	-1.47	3	-1.29	-1.29	-1.29
293	1	-1.85	-1.85	-1.85	2	-1.84	-1.84	-1.84	3	-1.58	-1.58	-1.58
294	1	-1.82	-1.82	-1.82	2	-1.81	-1.81	-1.81	3	-1.57	-1.56	-1.57
295	1	-1.83	-1.83	-1.83	2	-1.82	-1.82	-1.82	3	-1.57	-1.57	-1.57
296	1	-1.85	-1.86	-1.86	2	-1.84	-1.85	-1.85	3	-1.59	-1.60	-1.60
297	1	-1.52	-1.53	-1.53	2	-1.50	-1.51	-1.51	3	-1.33	-1.34	-1.34
298	1	-1.48	-1.50	-1.50	2	-1.47	-1.49	-1.49	3	-1.29	-1.31	-1.31
299	1	-1.85	-1.86	-1.86	2	-1.84	-1.85	-1.85	3	-1.58	-1.59	-1.59
300	1	-1.53	-1.53	-1.53	2	-1.51	-1.51	-1.51	3	-1.34	-1.34	-1.34
301	1	-1.50	-1.51	-1.51	2	-1.49	-1.50	-1.50	3	-1.31	-1.32	-1.32
302	1	-1.82	-1.81	-1.82	2	-1.81	-1.81	-1.81	3	-1.56	-1.56	-1.56
303	1	-1.86	-1.87	-1.87	2	-1.85	-1.86	-1.86	3	-1.60	-1.60	-1.60
304	1	-1.86	-1.87	-1.87	2	-1.85	-1.86	-1.86	3	-1.59	-1.60	-1.60

305	1	-1.83	-1.83	-1.83	2	-1.82	-1.82	-1.82	3	-1.57	-1.57	-1.57
306	1	-1.53	-1.53	-1.53	2	-1.51	-1.51	-1.51	3	-1.34	-1.34	-1.34
307	1	-1.53	-1.53	-1.53	2	-1.51	-1.50	-1.51	3	-1.34	-1.33	-1.34
308	1	-1.53	-1.53	-1.53	2	-1.50	-1.50	-1.50	3	-1.33	-1.33	-1.33
309	1	-1.53	-1.53	-1.53	2	-1.50	-1.51	-1.51	3	-1.33	-1.34	-1.34
310	1	-1.53	-1.52	-1.53	2	-1.51	-1.50	-1.51	3	-1.34	-1.33	-1.34
311	1	-1.52	-1.52	-1.52	2	-1.50	-1.49	-1.49	3	-1.33	-1.32	-1.33
312	1	-1.52	-1.47	-1.51	2	-1.49	-1.44	-1.48	3	-1.32	-1.28	-1.32
313	1	-1.47	-1.48	-1.48	2	-1.44	-1.44	-1.44	3	-1.28	-1.29	-1.29
315	1	-1.46	-1.47	-1.47	2	-1.42	-1.44	-1.44	3	-1.27	-1.28	-1.28
316	1	-1.47	-1.47	-1.47	2	-1.44	-1.45	-1.45	3	-1.28	-1.28	-1.28
317	1	-1.47	-1.47	-1.47	2	-1.45	-1.45	-1.45	3	-1.28	-1.28	-1.28
318	1	-1.47	-1.48	-1.48	2	-1.45	-1.46	-1.46	3	-1.28	-1.29	-1.29
319	1	-1.48	-1.49	-1.49	2	-1.46	-1.47	-1.47	3	-1.29	-1.30	-1.30
320	1	-1.49	-1.51	-1.51	2	-1.47	-1.49	-1.49	3	-1.30	-1.31	-1.31
321	1	-1.81	-1.81	-1.81	2	-1.81	-1.80	-1.81	3	-1.56	-1.56	-1.56
322	1	-1.87	-1.87	-1.87	2	-1.86	-1.86	-1.86	3	-1.60	-1.60	-1.60
323	1	-1.87	-1.87	-1.87	2	-1.86	-1.86	-1.86	3	-1.60	-1.60	-1.60
324	1	-1.83	-1.83	-1.83	2	-1.82	-1.82	-1.82	3	-1.57	-1.57	-1.57
325	1	-1.81	-1.81	-1.81	2	-1.80	-1.80	-1.80	3	-1.56	-1.56	-1.56
326	1	-1.87	-1.87	-1.87	2	-1.86	-1.86	-1.86	3	-1.60	-1.60	-1.60
327	1	-1.87	-1.87	-1.87	2	-1.86	-1.86	-1.86	3	-1.60	-1.60	-1.60
328	1	-1.83	-1.83	-1.83	2	-1.82	-1.82	-1.82	3	-1.57	-1.57	-1.57
329	1	-1.53	-1.54	-1.54	2	-1.51	-1.52	-1.52	3	-1.34	-1.35	-1.35
330	1	-1.51	-1.52	-1.52	2	-1.50	-1.51	-1.51	3	-1.32	-1.33	-1.33
331	1	-1.52	-1.52	-1.52	2	-1.50	-1.50	-1.50	3	-1.33	-1.33	-1.33
332	1	-1.48	-1.49	-1.49	2	-1.45	-1.45	-1.45	3	-1.29	-1.29	-1.29
333	1	-1.81	-1.81	-1.81	2	-1.80	-1.80	-1.80	3	-1.56	-1.56	-1.56
334	1	-1.83	-1.83	-1.83	2	-1.82	-1.82	-1.82	3	-1.57	-1.57	-1.57
335	1	-1.46	-1.46	-1.46	2	-1.42	-1.43	-1.43	3	-1.27	-1.27	-1.27
336	1	-1.47	-1.47	-1.47	2	-1.45	-1.45	-1.45	3	-1.28	-1.29	-1.29
337	1	-1.87	-1.85	-1.86	2	-1.86	-1.84	-1.86	3	-1.60	-1.59	-1.60
338	1	-1.87	-1.85	-1.87	2	-1.86	-1.84	-1.86	3	-1.60	-1.58	-1.60
339	1	-1.54	-1.55	-1.55	2	-1.52	-1.53	-1.53	3	-1.35	-1.35	-1.35
340	1	-1.52	-1.53	-1.53	2	-1.51	-1.52	-1.52	3	-1.33	-1.34	-1.34
341	1	-1.81	-1.80	-1.81	2	-1.80	-1.79	-1.80	3	-1.56	-1.55	-1.56
342	1	-1.83	-1.83	-1.83	2	-1.82	-1.82	-1.82	3	-1.57	-1.57	-1.57
343	1	-1.52	-1.52	-1.52	2	-1.50	-1.49	-1.50	3	-1.33	-1.33	-1.33
344	1	-1.49	-1.48	-1.49	2	-1.45	-1.45	-1.45	3	-1.29	-1.30	-1.30
345	1	-1.85	-1.82	-1.84	2	-1.84	-1.81	-1.84	3	-1.59	-1.57	-1.59
346	1	-1.85	-1.82	-1.85	2	-1.84	-1.81	-1.84	3	-1.58	-1.56	-1.58
347	1	-1.55	-1.55	-1.55	2	-1.53	-1.53	-1.53	3	-1.35	-1.35	-1.35
348	1	-1.53	-1.54	-1.54	2	-1.52	-1.53	-1.53	3	-1.34	-1.34	-1.34
349	1	-1.46	-1.46	-1.46	2	-1.43	-1.44	-1.44	3	-1.27	-1.28	-1.28
350	1	-1.47	-1.48	-1.48	2	-1.45	-1.46	-1.46	3	-1.29	-1.30	-1.30
351	1	-1.80	-1.79	-1.80	2	-1.79	-1.78	-1.79	3	-1.55	-1.54	-1.55
352	1	-1.83	-1.83	-1.83	2	-1.82	-1.82	-1.82	3	-1.57	-1.57	-1.57
353	1	-1.82	-1.81	-1.82	2	-1.82	-1.81	-1.81	3	-1.57	-1.56	-1.57
354	1	-1.81	-1.81	-1.81	2	-1.81	-1.80	-1.81	3	-1.56	-1.56	-1.56
355	1	-1.81	-1.80	-1.81	2	-1.80	-1.79	-1.80	3	-1.56	-1.55	-1.56
356	1	-1.80	-1.80	-1.80	2	-1.79	-1.79	-1.79	3	-1.55	-1.56	-1.56
357	1	-1.80	-1.80	-1.80	2	-1.79	-1.79	-1.79	3	-1.56	-1.55	-1.56
358	1	-1.80	-1.80	-1.80	2	-1.79	-1.79	-1.79	3	-1.55	-1.55	-1.55
359	1	-1.80	-1.80	-1.80	2	-1.79	-1.79	-1.79	3	-1.55	-1.55	-1.55
360	1	-1.80	-1.79	-1.80	2	-1.79	-1.78	-1.79	3	-1.55	-1.55	-1.55
361	1	-1.79	-1.76	-1.79	2	-1.78	-1.75	-1.78	3	-1.55	-1.52	-1.54
362	1	-1.76	-1.75	-1.76	2	-1.75	-1.74	-1.75	3	-1.52	-1.52	-1.52
363	1	-1.75	-1.74	-1.75	2	-1.74	-1.73	-1.74	3	-1.52	-1.51	-1.52
364	1	-1.74	-1.73	-1.74	2	-1.73	-1.72	-1.73	3	-1.51	-1.50	-1.51
365	1	-1.73	-1.73	-1.73	2	-1.72	-1.71	-1.72	3	-1.50	-1.49	-1.50
366	1	-1.73	-1.71	-1.72	2	-1.71	-1.70	-1.71	3	-1.49	-1.48	-1.49
367	1	-1.71	-1.68	-1.70	2	-1.70	-1.67	-1.69	3	-1.48	-1.45	-1.47
368	1	-1.68	-1.69	-1.69	2	-1.67	-1.67	-1.67	3	-1.45	-1.46	-1.46
369	1	-1.69	-1.69	-1.69	2	-1.67	-1.67	-1.67	3	-1.46	-1.46	-1.46
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371	1	-1.69	-1.69	-1.69	2	-1.67	-1.67	-1.67	3	-1.46	-1.46	-1.46
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373	1	-1.67	-1.65	-1.67	2	-1.66	-1.64	-1.66	3	-1.45	-1.43	-1.45
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377	1	-1.64	-1.62	-1.64	2	-1.62	-1.61	-1.62	3	-1.42	-1.41	-1.42
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383	1	-1.55	-1.55	-1.55	2	-1.54	-1.54	-1.54	3	-1.35	-1.36	-1.36
384	1	-1.55	-1.59	-1.59	2	-1.54	-1.57	-1.57	3	-1.36	-1.38	-1.38
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387	1	-1.63	-1.63	-1.63	2	-1.62	-1.62	-1.62	3	-1.41	-1.42	-1.42
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389	1	-1.64	-1.65	-1.65	2	-1.63	-1.64	-1.64	3	-1.42	-1.42	-1.42
390	1	-1.65	-1.66	-1.66	2	-1.64	-1.65	-1.65	3	-1.42	-1.44	-1.44
391	1	-1.66	-1.68	-1.68	2	-1.65	-1.67	-1.67	3	-1.44	-1.45	-1.45
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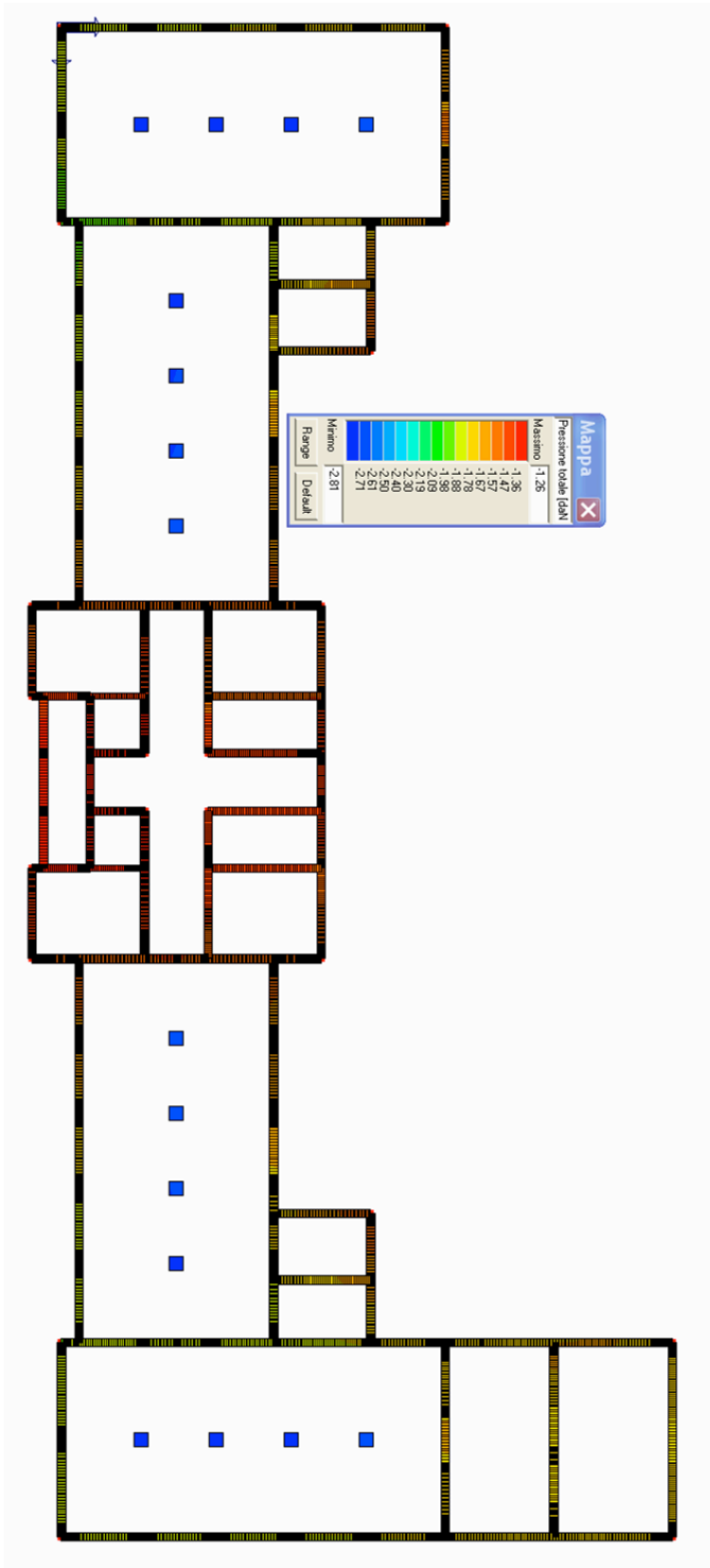
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396	1	-1.67	-1.70	-1.70	2	-1.66	-1.69	-1.69	3	-1.44	-1.47	-1.47
397	1	-1.70	-1.72	-1.72	2	-1.69	-1.71	-1.71	3	-1.47	-1.49	-1.49
398	1	-1.72	-1.73	-1.73	2	-1.71	-1.72	-1.72	3	-1.49	-1.49	-1.49
399	1	-1.73	-1.74	-1.74	2	-1.72	-1.73	-1.73	3	-1.49	-1.50	-1.50
400	1	-1.74	-1.76	-1.76	2	-1.73	-1.75	-1.75	3	-1.50	-1.52	-1.52
401	1	-1.76	-1.77	-1.77	2	-1.75	-1.76	-1.76	3	-1.52	-1.53	-1.53
402	1	-1.77	-1.79	-1.79	2	-1.76	-1.78	-1.78	3	-1.53	-1.54	-1.54
403	1	-1.79	-1.80	-1.80	2	-1.78	-1.79	-1.79	3	-1.54	-1.55	-1.55
404	1	-1.80	-1.80	-1.80	2	-1.79	-1.79	-1.79	3	-1.55	-1.55	-1.55
405	1	-1.80	-1.80	-1.80	2	-1.79	-1.79	-1.79	3	-1.55	-1.55	-1.55
406	1	-1.80	-1.80	-1.80	2	-1.79	-1.80	-1.80	3	-1.55	-1.55	-1.55
407	1	-1.80	-1.81	-1.81	2	-1.80	-1.80	-1.80	3	-1.55	-1.55	-1.55
408	1	-1.81	-1.81	-1.81	2	-1.80	-1.81	-1.81	3	-1.55	-1.56	-1.56
409	1	-1.81	-1.82	-1.82	2	-1.81	-1.81	-1.81	3	-1.56	-1.56	-1.56
410	1	-1.82	-1.82	-1.82	2	-1.81	-1.81	-1.81	3	-1.56	-1.57	-1.57
411	1	-1.79	-1.77	-1.79	2	-1.78	-1.77	-1.78	3	-1.55	-1.53	-1.55
412	1	-1.75	-1.73	-1.75	2	-1.74	-1.72	-1.74	3	-1.52	-1.50	-1.51
413	1	-1.75	-1.73	-1.75	2	-1.74	-1.73	-1.74	3	-1.51	-1.50	-1.51
414	1	-1.80	-1.78	-1.79	2	-1.79	-1.77	-1.79	3	-1.54	-1.53	-1.54
415	1	-1.82	-1.81	-1.82	2	-1.81	-1.80	-1.81	3	-1.57	-1.56	-1.57
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419	1	-1.52	-1.50	-1.52	2	-1.49	-1.48	-1.49	3	-1.33	-1.32	-1.33
420	1	-1.79	-1.79	-1.79	2	-1.78	-1.78	-1.78	3	-1.54	-1.54	-1.54
421	1	-1.83	-1.83	-1.83	2	-1.82	-1.82	-1.82	3	-1.57	-1.57	-1.57
422	1	-1.48	-1.47	-1.48	2	-1.45	-1.44	-1.45	3	-1.30	-1.29	-1.30
423	1	-1.79	-1.79	-1.79	2	-1.78	-1.78	-1.78	3	-1.54	-1.54	-1.54
424	1	-1.83	-1.83	-1.83	2	-1.82	-1.82	-1.82	3	-1.57	-1.57	-1.57
425	1	-1.54	-1.54	-1.54	2	-1.52	-1.52	-1.52	3	-1.35	-1.35	-1.35
426	1	-1.54	-1.54	-1.54	2	-1.53	-1.53	-1.53	3	-1.34	-1.35	-1.35
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428	1	-1.81	-1.80	-1.81	2	-1.80	-1.79	-1.80	3	-1.56	-1.55	-1.56
429	1	-1.77	-1.72	-1.77	2	-1.77	-1.71	-1.76	3	-1.53	-1.50	-1.53
430	1	-1.73	-1.67	-1.73	2	-1.72	-1.66	-1.72	3	-1.50	-1.46	-1.50
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432	1	-1.78	-1.74	-1.78	2	-1.77	-1.73	-1.77	3	-1.53	-1.50	-1.53
433	1	-1.79	-1.79	-1.79	2	-1.78	-1.78	-1.78	3	-1.54	-1.54	-1.54
434	1	-1.83	-1.83	-1.83	2	-1.82	-1.82	-1.82	3	-1.57	-1.57	-1.57
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437	1	-1.46	-1.47	-1.47	2	-1.44	-1.45	-1.45	3	-1.28	-1.29	-1.29
438	1	-1.48	-1.49	-1.49	2	-1.46	-1.48	-1.48	3	-1.30	-1.31	-1.31
439	1	-1.54	-1.54	-1.54	2	-1.52	-1.52	-1.52	3	-1.35	-1.35	-1.35
440	1	-1.54	-1.55	-1.55	2	-1.53	-1.54	-1.54	3	-1.35	-1.35	-1.35
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447	1	-1.47	-1.47	-1.47	2	-1.44	-1.44	-1.44	3	-1.29	-1.29	-1.29
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450	1	-1.78	-1.76	-1.78	2	-1.77	-1.75	-1.77	3	-1.54	-1.53	-1.54
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452	1	-1.72	-1.67	-1.72	2	-1.71	-1.66	-1.71	3	-1.50	-1.46	-1.50
453	1	-1.74	-1.69	-1.73	2	-1.73	-1.68	-1.72	3	-1.50	-1.48	-1.50
454	1	-1.55	-1.54	-1.55	2	-1.53	-1.52	-1.53	3	-1.36	-1.35	-1.36
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458	1	-1.50	-1.49	-1.50	2	-1.47	-1.47	-1.47	3	-1.31	-1.31	-1.31
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477	1	-1.80	-1.79	-1.80	2	-1.79	-1.78	-1.79	3	-1.55	-1.55	-1.55
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480	1	-1.75	-1.75	-1.75	2	-1.74	-1.74	-1.74	3	-1.51	-1.51	-1.51
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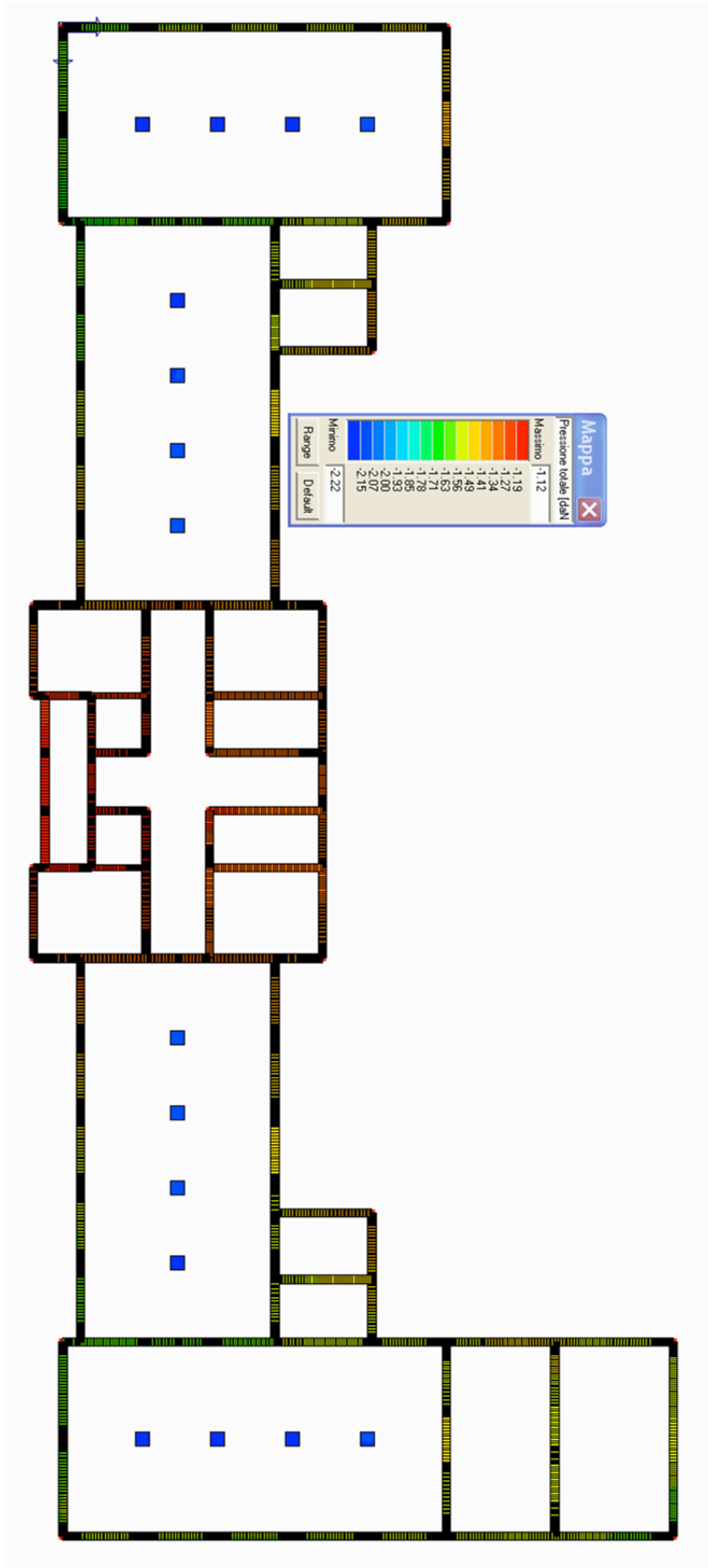
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487	1	-1.81	-1.81	-1.81	2	-1.80	-1.80	-1.80	3	-1.56	-1.56	-1.56
488	1	-1.75	-1.74	-1.75	2	-1.74	-1.73	-1.74	3	-1.51	-1.51	-1.51
489	1	-1.73	-1.72	-1.73	2	-1.72	-1.71	-1.72	3	-1.50	-1.50	-1.50
490	1	-1.79	-1.79	-1.79	2	-1.78	-1.78	-1.78	3	-1.54	-1.54	-1.54
491	1	-1.81	-1.81	-1.81	2	-1.80	-1.80	-1.80	3	-1.56	-1.56	-1.56
492	1	-1.72	-1.70	-1.72	2	-1.71	-1.70	-1.71	3	-1.50	-1.49	-1.50
493	1	-1.70	-1.66	-1.70	2	-1.70	-1.65	-1.69	3	-1.49	-1.46	-1.49
494	1	-1.66	-1.62	-1.66	2	-1.65	-1.61	-1.65	3	-1.46	-1.43	-1.45
495	1	-1.62	-1.61	-1.62	2	-1.61	-1.60	-1.61	3	-1.43	-1.42	-1.43
496	1	-1.61	-1.60	-1.61	2	-1.60	-1.59	-1.60	3	-1.42	-1.41	-1.42
497	1	-1.60	-1.56	-1.59	2	-1.59	-1.55	-1.59	3	-1.41	-1.39	-1.41
498	1	-1.56	-1.53	-1.56	2	-1.55	-1.52	-1.55	3	-1.39	-1.37	-1.39
499	1	-1.53	-1.51	-1.52	2	-1.52	-1.51	-1.52	3	-1.37	-1.36	-1.37
500	1	-1.51	-1.54	-1.54	2	-1.51	-1.53	-1.53	3	-1.36	-1.37	-1.37
501	1	-1.54	-1.58	-1.58	2	-1.53	-1.57	-1.57	3	-1.37	-1.40	-1.40
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505	1	-1.65	-1.70	-1.70	2	-1.64	-1.69	-1.69	3	-1.45	-1.49	-1.49
506	1	-1.70	-1.76	-1.76	2	-1.69	-1.75	-1.75	3	-1.49	-1.52	-1.52
507	1	-1.76	-1.78	-1.78	2	-1.75	-1.77	-1.77	3	-1.52	-1.54	-1.54
508	1	-1.74	-1.73	-1.74	2	-1.73	-1.73	-1.73	3	-1.51	-1.50	-1.51
509	1	-1.72	-1.71	-1.72	2	-1.71	-1.70	-1.71	3	-1.50	-1.49	-1.50
510	1	-1.79	-1.78	-1.79	2	-1.78	-1.77	-1.77	3	-1.54	-1.54	-1.54
511	1	-1.81	-1.81	-1.81	2	-1.80	-1.79	-1.80	3	-1.56	-1.56	-1.56
512	1	-1.73	-1.72	-1.73	2	-1.73	-1.71	-1.73	3	-1.50	-1.49	-1.50
513	1	-1.71	-1.67	-1.71	2	-1.70	-1.66	-1.70	3	-1.49	-1.46	-1.49
514	1	-1.78	-1.76	-1.78	2	-1.77	-1.75	-1.77	3	-1.54	-1.52	-1.54
515	1	-1.81	-1.79	-1.80	2	-1.79	-1.78	-1.79	3	-1.56	-1.56	-1.56
516	1	-1.72	-1.70	-1.72	2	-1.71	-1.70	-1.71	3	-1.49	-1.48	-1.49
517	1	-1.67	-1.64	-1.67	2	-1.66	-1.63	-1.66	3	-1.46	-1.44	-1.46
518	1	-1.76	-1.74	-1.76	2	-1.75	-1.73	-1.74	3	-1.52	-1.51	-1.52
519	1	-1.79	-1.79	-1.79	2	-1.78	-1.77	-1.78	3	-1.56	-1.56	-1.56
520	1	-1.70	-1.70	-1.70	2	-1.70	-1.70	-1.70	3	-1.48	-1.48	-1.48
521	1	-1.64	-1.64	-1.64	2	-1.63	-1.63	-1.63	3	-1.44	-1.44	-1.44
522	1	-1.74	-1.74	-1.74	2	-1.73	-1.72	-1.73	3	-1.51	-1.51	-1.51
523	1	-1.79	-1.79	-1.79	2	-1.77	-1.77	-1.77	3	-1.56	-1.56	-1.56
524	1	-1.70	-1.70	-1.70	2	-1.70	-1.69	-1.70	3	-1.48	-1.48	-1.48
525	1	-1.64	-1.63	-1.64	2	-1.63	-1.62	-1.63	3	-1.44	-1.43	-1.44
526	1	-1.74	-1.73	-1.74	2	-1.72	-1.72	-1.72	3	-1.51	-1.50	-1.51
527	1	-1.79	-1.78	-1.79	2	-1.77	-1.77	-1.77	3	-1.56	-1.55	-1.56
528	1	-1.69	-1.68	-1.69	2	-1.69	-1.68	-1.69	3	-1.47	-1.47	-1.47
529	1	-1.68	-1.67	-1.68	2	-1.68	-1.67	-1.68	3	-1.47	-1.46	-1.46
530	1	-1.67	-1.65	-1.67	2	-1.67	-1.64	-1.67	3	-1.46	-1.44	-1.46
531	1	-1.65	-1.61	-1.65	2	-1.64	-1.61	-1.64	3	-1.44	-1.41	-1.44
532	1	-1.61	-1.59	-1.61	2	-1.61	-1.59	-1.61	3	-1.41	-1.40	-1.41
533	1	-1.59	-1.58	-1.59	2	-1.59	-1.58	-1.58	3	-1.40	-1.39	-1.39
534	1	-1.58	-1.60	-1.60	2	-1.58	-1.59	-1.59	3	-1.39	-1.40	-1.40
535	1	-1.60	-1.62	-1.62	2	-1.59	-1.61	-1.61	3	-1.40	-1.42	-1.42
536	1	-1.62	-1.63	-1.63	2	-1.61	-1.62	-1.62	3	-1.42	-1.43	-1.43
537	1	-1.63	-1.63	-1.63	2	-1.62	-1.62	-1.62	3	-1.43	-1.43	-1.43
538	1	-1.63	-1.63	-1.63	2	-1.62	-1.62	-1.62	3	-1.43	-1.43	-1.43
539	1	-1.73	-1.73	-1.73	2	-1.72	-1.72	-1.72	3	-1.51	-1.50	-1.51
540	1	-1.73	-1.73	-1.73	2	-1.72	-1.72	-1.72	3	-1.50	-1.50	-1.50
541	1	-1.73	-1.73	-1.73	2	-1.72	-1.71	-1.72	3	-1.50	-1.50	-1.50
542	1	-1.73	-1.71	-1.73	2	-1.71	-1.69	-1.71	3	-1.50	-1.48	-1.50
543	1	-1.71	-1.69	-1.71	2	-1.69	-1.68	-1.69	3	-1.48	-1.47	-1.48
544	1	-1.69	-1.71	-1.71	2	-1.68	-1.69	-1.69	3	-1.47	-1.48	-1.48
545	1	-1.71	-1.72	-1.72	2	-1.69	-1.71	-1.71	3	-1.48	-1.50	-1.50
546	1	-1.72	-1.75	-1.75	2	-1.71	-1.74	-1.74	3	-1.50	-1.53	-1.53
547	1	-1.75	-1.77	-1.77	2	-1.74	-1.76	-1.76	3	-1.53	-1.54	-1.54
548	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.54	-1.55	-1.55
549	1	-1.77	-1.78	-1.78	2	-1.76	-1.77	-1.77	3	-1.55	-1.55	-1.55
550	1	-1.73	-1.72	-1.73	2	-1.72	-1.71	-1.72	3	-1.50	-1.50	-1.50
551	1	-1.78	-1.78	-1.78	2	-1.77	-1.77	-1.77	3	-1.55	-1.55	-1.55
552	1	-1.72	-1.71	-1.72	2	-1.71	-1.69	-1.71	3	-1.50	-1.49	-1.50
553	1	-1.78	-1.77	-1.78	2	-1.77	-1.76	-1.77	3	-1.55	-1.55	-1.55
554	1	-1.71	-1.69	-1.71	2	-1.69	-1.68	-1.69	3	-1.49	-1.48	-1.49
555	1	-1.77	-1.76	-1.77	2	-1.76	-1.75	-1.76	3	-1.55	-1.55	-1.55
556	1	-1.69	-1.69	-1.69	2	-1.68	-1.68	-1.68	3	-1.48	-1.48	-1.48
557	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.55	-1.55	-1.55
558	1	-1.69	-1.69	-1.69	2	-1.68	-1.68	-1.68	3	-1.48	-1.49	-1.49
559	1	-1.76	-1.77	-1.77	2	-1.75	-1.75	-1.75	3	-1.55	-1.56	-1.56
560	1	-1.69	-1.68	-1.69	2	-1.67	-1.67	-1.67	3	-1.49	-1.48	-1.48
561	1	-1.68	-1.71	-1.71	2	-1.67	-1.69	-1.69	3	-1.48	-1.49	-1.49
562	1	-1.71	-1.72	-1.72	2	-1.69	-1.70	-1.70	3	-1.49	-1.50	-1.50
563	1	-1.72	-1.72	-1.72	2	-1.70	-1.70	-1.70	3	-1.50	-1.51	-1.51
564	1	-1.72	-1.72	-1.73	2	-1.70	-1.71	-1.71	3	-1.51	-1.51	-1.51
565	1	-1.72	-1.73	-1.73	2	-1.71	-1.71	-1.71	3	-1.51	-1.52	-1.52
566	1	-1.73	-1.75	-1.75	2	-1.71	-1.74	-1.74	3	-1.52	-1.54	-1.54
567	1	-1.75	-1.76	-1.76	2	-1.74	-1.75	-1.75	3	-1.54	-1.55	-1.55
568	1	-1.69	-1.69	-1.69	2	-1.68	-1.67	-1.68	3	-1.49	-1.49	-1.49
569	1	-1.77	-1.76	-1.77	2	-1.75	-1.75	-1.75	3	-1.56	-1.56	-1.56



570	1	-1.69	-1.69	-1.69	2	-1.67	-1.67	-1.67	3	-1.49	-1.49	-1.49
571	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.56	-1.56	-1.56
572	1	-1.69	-1.69	-1.69	2	-1.67	-1.68	-1.68	3	-1.49	-1.50	-1.50
573	1	-1.76	-1.77	-1.77	2	-1.75	-1.76	-1.76	3	-1.56	-1.57	-1.57
574	1	-1.69	-1.70	-1.70	2	-1.68	-1.68	-1.68	3	-1.50	-1.51	-1.51
575	1	-1.77	-1.78	-1.78	2	-1.76	-1.76	-1.76	3	-1.57	-1.58	-1.58
576	1	-1.70	-1.70	-1.70	2	-1.68	-1.68	-1.68	3	-1.51	-1.51	-1.51
577	1	-1.78	-1.78	-1.78	2	-1.76	-1.77	-1.77	3	-1.58	-1.59	-1.59
578	1	-1.70	-1.70	-1.70	2	-1.68	-1.69	-1.69	3	-1.51	-1.52	-1.52
579	1	-1.78	-1.79	-1.79	2	-1.77	-1.77	-1.77	3	-1.59	-1.59	-1.59
580	1	-1.70	-1.71	-1.71	2	-1.69	-1.69	-1.69	3	-1.52	-1.52	-1.52
581	1	-1.71	-1.71	-1.71	2	-1.69	-1.70	-1.70	3	-1.52	-1.53	-1.53
582	1	-1.71	-1.70	-1.71	2	-1.70	-1.69	-1.70	3	-1.53	-1.52	-1.53
583	1	-1.70	-1.72	-1.72	2	-1.69	-1.71	-1.71	3	-1.52	-1.53	-1.53
584	1	-1.72	-1.76	-1.76	2	-1.71	-1.74	-1.74	3	-1.53	-1.57	-1.57
585	1	-1.76	-1.78	-1.78	2	-1.74	-1.76	-1.76	3	-1.57	-1.58	-1.58
586	1	-1.78	-1.79	-1.79	2	-1.76	-1.77	-1.77	3	-1.58	-1.59	-1.59
<b>Elem.</b>		<b>Pt ini</b>	<b>Pt fin</b>	<b>Pt max</b>		<b>Pt ini</b>	<b>Pt fin</b>	<b>Pt max</b>		<b>Pt ini</b>	<b>Pt fin</b>	<b>Pt max</b>
		-1.93										
		-1.14										







## **CONCLUSIONI**

Come si può notare dai grafici sopra riportati e dalle tabelle con i valori delle pressioni al suolo in condizioni di esercizio (comb. 1 e 2) e pressioni relative ai soli pesi permanenti si possono effettuare le seguenti considerazioni:

- 1) la parte centrale rappresenta la parte con pressioni al suolo inferiori e con una miglior distribuzione delle pressioni sia nella combinazione di esercizio che per quanto riguarda i soli pesi permanenti (variabili tra -1,27 e -1,56 in condizioni di esercizio comb. 1 e variabile tra -1,12 e -1,36 in comb. 3)
- 2) Le ali soprattutto quelle sopraelevate sulle pareti portanti presentano valori delle pressioni al suolo maggiormente elevate e con maggior dispersione dei valori per la presenza di carichi concentrati, sia nella combinazione di esercizio che per quanto riguarda i soli pesi permanenti (variabili tra -1,93 e -1,49 in condizioni di esercizio comb. 1 e variabile tra -1,66 e -1,30 in comb. 3)
- 3) I plinti presentano i massimi valori di pressione al suolo, sia nella combinazione di esercizio che per quanto riguarda i soli pesi permanenti, con differenze di pressioni con le altre parti dell'edificio maggiormente evidenti in combinazione 1 e 2 (-3,02 in condizioni di esercizio comb. 1 e -2,22 in comb. 3), inoltre essendo elementi puntuali in calcestruzzo non armato non garantiscono particolari garanzie in caso di evento sismico.

## 6.2.2 RELAZIONE SULLE FONDAZIONI STATO DI PROGETTO

### Premessa

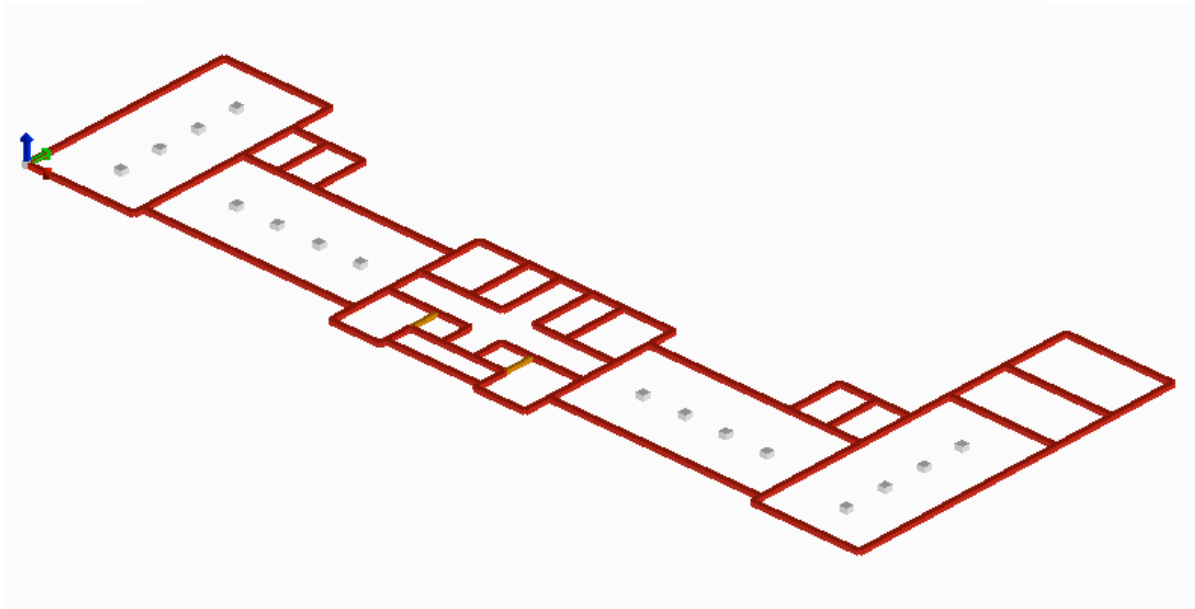
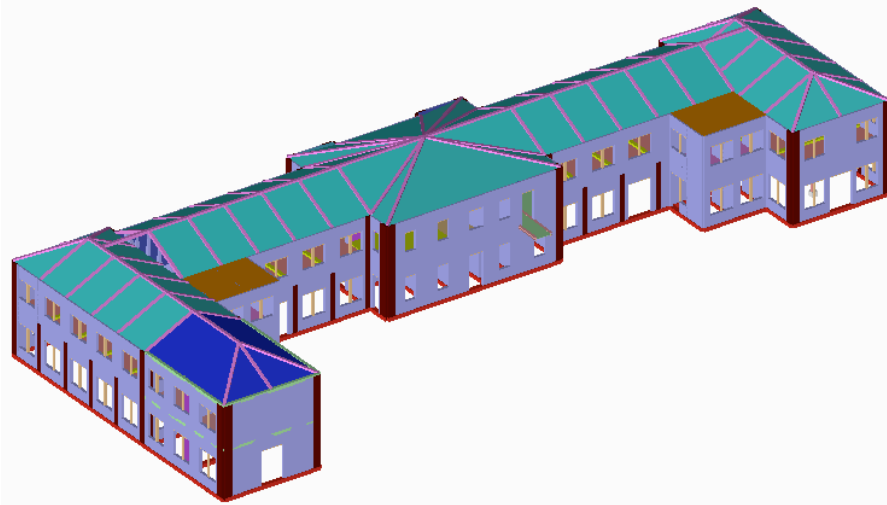
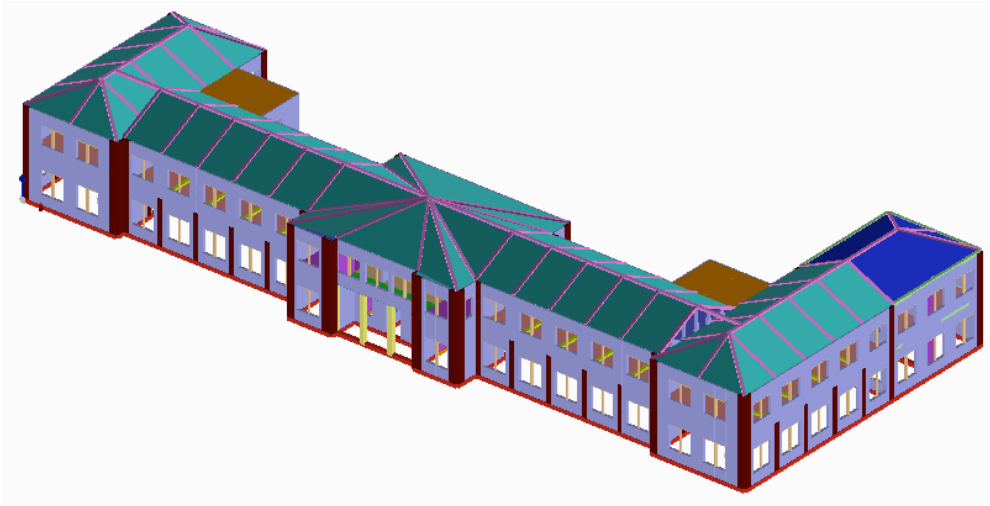
La presente relazione di calcolo strutturale, è stata effettuata per ricavare un'immagine qualitativa dello stato tensionale al suolo relativamente alle strutture di fondazione esaminate; considerando le tipologie fondali ricavate dai saggi in modo da fotografarne le maggiori carenze.

Le modifiche apportate allo stato di fatto riguardano il consolidamento localizzato dei plinti e la sostituzione dei sovraccarichi allo stato di fatto con quelli allo stato di progetto.

### Modello numerico

In questa parte viene descritto il modello numerico utilizzato per l'analisi della struttura.

<b>Modellazione della geometria e proprietà meccaniche:</b>	
nodi	3469
elementi D2 (per aste, travi, pilastri...)	1295
elementi D3 (per pareti, platee, gusci...)	2578
elementi solaio	124
elementi solidi	0
<b>Dimensione del modello strutturale [cm]:</b>	
X min =	0.00
Xmax =	8080.00
Ymin =	-157.00
Ymax =	3270.00
Zmin =	0.00
Zmax =	1200.00
<b>Strutture verticali:</b>	
Pilastri	SI
Pareti	SI
<b>Strutture non verticali:</b>	
Elementi di tipo asta	SI
Travi	SI
<b>Orizzontamenti:</b>	
Solai con la proprietà piano rigido	SI
Solai senza la proprietà piano rigido	SI
<b>Tipo di vincoli:</b>	
Nodi vincolati rigidamente	SI
Fondazioni puntuali (plinti/plinti su palo)	SI
Fondazioni di tipo trave	SI



## LEGENDA TABELLA DATI NODI

Il programma utilizza per la modellazione nodi strutturali.

Ogni nodo è individuato dalle coordinate cartesiane nel sistema di riferimento globale (X Y Z).

Ad ogni nodo è eventualmente associato un codice di vincolamento rigido, un codice di fondazione speciale, ed un set di sei molle (tre per le traslazioni, tre per le rotazioni). Le tabelle sottoriportate riflettono le succitate possibilità. In particolare per ogni nodo viene indicato in tabella:

<b>Nodo</b>	numero del nodo.
<b>X</b>	valore della coordinata X
<b>Y</b>	valore della coordinata Y
<b>Z</b>	valore della coordinata Z

Per i nodi ai quali sia associato un codice di vincolamento rigido, un codice di fondazione speciale o un set di molle viene indicato in tabella:

<b>Nodo</b>	numero del nodo.
<b>X</b>	valore della coordinata X
<b>Y</b>	valore della coordinata Y
<b>Z</b>	valore della coordinata Z
<b>Note</b>	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, il valore 0 indica che lo spostamento o rotazione relativo è libero).
<b>Note</b>	(FS = 1, 2,...) eventuale codice del tipo di fondazione speciale (1, 2,... fanno riferimento alle tipologie: plinto, palo, plinto su pali,...) che è collegato al nodo. (ISO = "id SIGLA") indice e sigla identificativa dell' eventuale isolatore sismico assegnato al nodo
<b>Rig. TX</b>	valore della rigidezza dei vincoli elastici eventualmente applicati al nodo, nello specifico TX (idem per TY, TZ, RX, RY, RZ).

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	3095.0	-157.0	0.0	2	3175.0	-157.0	0.0	3	3200.0	-157.0	0.0
4	3325.0	-157.0	0.0	5	3450.0	-157.0	0.0	6	3480.0	-157.0	0.0
7	3580.0	-157.0	0.0	8	4500.0	-157.0	0.0	9	4600.0	-157.0	0.0
10	4630.0	-157.0	0.0	11	4755.0	-157.0	0.0	12	4880.0	-157.0	0.0
13	4905.0	-157.0	0.0	14	4985.0	-157.0	0.0	15	3580.0	-97.0	0.0
16	3600.0	-97.0	0.0	17	3860.0	-97.0	0.0	18	3910.0	-97.0	0.0
19	4170.0	-97.0	0.0	20	4220.0	-97.0	0.0	21	4480.0	-97.0	0.0
22	4500.0	-97.0	0.0	23	3095.0	-82.0	0.0	24	4985.0	-82.0	0.0
25	4985.0	-52.0	0.0	26	0.0	0.0	0.0	27	70.0	0.0	0.0
28	200.0	0.0	0.0	29	325.0	0.0	0.0	30	450.0	0.0	0.0
31	520.0	0.0	0.0	32	590.0	0.0	0.0	33	715.0	0.0	0.0
34	840.0	0.0	0.0	35	970.0	0.0	0.0	36	1040.0	0.0	0.0
37	7040.0	0.0	0.0	38	7110.0	0.0	0.0	39	7240.0	0.0	0.0
40	7365.0	0.0	0.0	41	7490.0	0.0	0.0	42	7560.0	0.0	0.0
43	7630.0	0.0	0.0	44	7755.0	0.0	0.0	45	7880.0	0.0	0.0
46	8010.0	0.0	0.0	47	8080.0	0.0	0.0	48	3095.0	6.5	0.0
49	4985.0	48.0	0.0	50	0.0	70.0	0.0	51	8080.0	70.0	0.0
52	3580.0	83.0	0.0	53	4500.0	83.0	0.0	54	1040.0	95.0	0.0
55	1110.0	95.0	0.0	56	1140.0	95.0	0.0	57	1265.0	95.0	0.0
58	1390.0	95.0	0.0	59	1440.0	95.0	0.0	60	1465.0	95.0	0.0
61	1490.0	95.0	0.0	62	1540.0	95.0	0.0	63	1665.0	95.0	0.0
64	1790.0	95.0	0.0	65	1840.0	95.0	0.0	66	1865.0	95.0	0.0
67	1890.0	95.0	0.0	68	1940.0	95.0	0.0	69	2065.0	95.0	0.0
70	2190.0	95.0	0.0	71	2240.0	95.0	0.0	72	2265.0	95.0	0.0
73	2290.0	95.0	0.0	74	2340.0	95.0	0.0	75	2465.0	95.0	0.0
76	2590.0	95.0	0.0	77	2645.0	95.0	0.0	78	2670.0	95.0	0.0
79	2695.0	95.0	0.0	80	2745.0	95.0	0.0	81	2870.0	95.0	0.0
82	2995.0	95.0	0.0	83	3025.0	95.0	0.0	84	3095.0	95.0	0.0
85	4985.0	95.0	0.0	86	5055.0	95.0	0.0	87	5085.0	95.0	0.0
88	5210.0	95.0	0.0	89	5335.0	95.0	0.0	90	5385.0	95.0	0.0
91	5410.0	95.0	0.0	92	5435.0	95.0	0.0	93	5490.0	95.0	0.0
94	5615.0	95.0	0.0	95	5740.0	95.0	0.0	96	5790.0	95.0	0.0
97	5815.0	95.0	0.0	98	5840.0	95.0	0.0	99	5890.0	95.0	0.0
100	6015.0	95.0	0.0	101	6140.0	95.0	0.0	102	6190.0	95.0	0.0
103	6215.0	95.0	0.0	104	6240.0	95.0	0.0	105	6290.0	95.0	0.0



106	6415.0	95.0	0.0	107	6540.0	95.0	0.0	108	6590.0	95.0	0.0
109	6615.0	95.0	0.0	110	6640.0	95.0	0.0	111	6690.0	95.0	0.0
112	6815.0	95.0	0.0	113	6940.0	95.0	0.0	114	6970.0	95.0	0.0
115	7040.0	95.0	0.0	116	0.0	100.0	0.0	117	8080.0	100.0	0.0
118	3580.0	153.0	0.0	119	3670.0	153.0	0.0	120	3790.0	153.0	0.0
121	3885.0	153.0	0.0	122	3945.0	153.0	0.0	123	4105.0	153.0	0.0
124	4195.0	153.0	0.0	125	4290.0	153.0	0.0	126	4410.0	153.0	0.0
127	4500.0	153.0	0.0	128	3095.0	211.7	0.0	129	4985.0	211.7	0.0
130	0.0	225.0	0.0	131	8080.0	225.0	0.0	132	1040.0	247.5	0.0
133	7040.0	247.5	0.0	134	3885.0	275.0	0.0	135	4195.0	275.0	0.0
136	3580.0	299.0	0.0	137	3095.0	328.3	0.0	138	4985.0	328.3	0.0
139	4500.0	335.0	0.0	140	0.0	350.0	0.0	141	8080.0	350.0	0.0
142	3885.0	375.0	0.0	143	4195.0	375.0	0.0	144	0.0	400.0	0.0
145	1040.0	400.0	0.0	146	7040.0	400.0	0.0	147	8080.0	400.0	0.0
148	4500.0	415.0	0.0	149	0.0	425.0	0.0	151	1040.0	425.0	0.0
152	3885.0	425.0	0.0	153	7040.0	425.0	0.0	155	8080.0	425.0	0.0
156	3095.0	445.0	0.0	157	3172.5	445.0	0.0	158	3250.0	445.0	0.0
159	3370.0	445.0	0.0	160	3475.0	445.0	0.0	161	3580.0	445.0	0.0
162	3610.0	445.0	0.0	163	3670.0	445.0	0.0	164	3795.0	445.0	0.0
165	3855.0	445.0	0.0	166	3885.0	445.0	0.0	167	4195.0	445.0	0.0
168	4290.0	445.0	0.0	169	4410.0	445.0	0.0	170	4500.0	445.0	0.0
171	4602.5	445.0	0.0	172	4705.0	445.0	0.0	173	4825.0	445.0	0.0
174	4905.0	445.0	0.0	175	4985.0	445.0	0.0	176	0.0	450.0	0.0
177	1040.0	450.0	0.0	178	7040.0	450.0	0.0	179	8080.0	450.0	0.0
180	1040.0	475.0	0.0	181	3095.0	475.0	0.0	182	4985.0	475.0	0.0
183	7040.0	475.0	0.0	184	0.0	505.0	0.0	185	8080.0	505.0	0.0
186	1040.0	595.0	0.0	187	3095.0	595.0	0.0	188	4985.0	595.0	0.0
189	7040.0	595.0	0.0	198	0.0	630.0	0.0	199	8080.0	630.0	0.0
200	1040.0	635.0	0.0	201	3095.0	635.0	0.0	202	4985.0	635.0	0.0
203	7040.0	635.0	0.0	204	0.0	755.0	0.0	205	1040.0	755.0	0.0
206	3095.0	755.0	0.0	207	4985.0	755.0	0.0	208	7040.0	755.0	0.0
209	8080.0	755.0	0.0	210	3095.0	785.0	0.0	211	3172.5	785.0	0.0
212	3250.0	785.0	0.0	213	3370.0	785.0	0.0	214	3475.0	785.0	0.0
215	3580.0	785.0	0.0	216	3610.0	785.0	0.0	217	3855.0	785.0	0.0
218	3885.0	785.0	0.0	219	4195.0	785.0	0.0	220	4375.0	785.0	0.0
221	4465.0	785.0	0.0	222	4500.0	785.0	0.0	223	4705.0	785.0	0.0
224	4825.0	785.0	0.0	225	4985.0	785.0	0.0	226	0.0	805.0	0.0
227	1040.0	805.0	0.0	228	7040.0	805.0	0.0	229	8080.0	805.0	0.0
230	0.0	830.0	0.0	232	1040.0	830.0	0.0	233	7040.0	830.0	0.0
235	8080.0	830.0	0.0	236	0.0	855.0	0.0	237	1040.0	855.0	0.0
238	7040.0	855.0	0.0	239	8080.0	855.0	0.0	240	3095.0	901.7	0.0
241	4985.0	901.7	0.0	242	0.0	905.0	0.0	243	8080.0	905.0	0.0
244	3580.0	936.3	0.0	245	3885.0	943.3	0.0	246	4195.0	986.7	0.0
247	4500.0	986.7	0.0	248	1040.0	995.0	0.0	249	7040.0	995.0	0.0
250	3095.0	1018.3	0.0	251	4985.0	1018.3	0.0	252	0.0	1030.0	0.0
253	8080.0	1030.0	0.0	254	3580.0	1087.5	0.0	255	3885.0	1101.7	0.0
256	1040.0	1135.0	0.0	257	1110.0	1135.0	0.0	258	1140.0	1135.0	0.0
259	1265.0	1135.0	0.0	260	1375.0	1135.0	0.0	261	1440.0	1135.0	0.0
262	1465.0	1135.0	0.0	263	1490.0	1135.0	0.0	264	1540.0	1135.0	0.0
265	1730.0	1135.0	0.0	266	1790.0	1135.0	0.0	267	1840.0	1135.0	0.0
268	1865.0	1135.0	0.0	269	1890.0	1135.0	0.0	270	1940.0	1135.0	0.0
271	2190.0	1135.0	0.0	272	2240.0	1135.0	0.0	273	2265.0	1135.0	0.0
274	2290.0	1135.0	0.0	275	2340.0	1135.0	0.0	276	2465.0	1135.0	0.0
277	2590.0	1135.0	0.0	278	2645.0	1135.0	0.0	279	2670.0	1135.0	0.0
280	2695.0	1135.0	0.0	281	2745.0	1135.0	0.0	282	2870.0	1135.0	0.0
283	2995.0	1135.0	0.0	284	3025.0	1135.0	0.0	285	3095.0	1135.0	0.0
286	4985.0	1135.0	0.0	287	5055.0	1135.0	0.0	288	5085.0	1135.0	0.0
289	5210.0	1135.0	0.0	290	5335.0	1135.0	0.0	291	5385.0	1135.0	0.0
292	5410.0	1135.0	0.0	293	5435.0	1135.0	0.0	294	5490.0	1135.0	0.0
295	5615.0	1135.0	0.0	296	5740.0	1135.0	0.0	297	5790.0	1135.0	0.0
298	5815.0	1135.0	0.0	299	5840.0	1135.0	0.0	300	5890.0	1135.0	0.0
301	6140.0	1135.0	0.0	302	6190.0	1135.0	0.0	303	6215.0	1135.0	0.0
304	6240.0	1135.0	0.0	305	6350.0	1135.0	0.0	306	6415.0	1135.0	0.0
307	6540.0	1135.0	0.0	308	6590.0	1135.0	0.0	309	6615.0	1135.0	0.0
310	6640.0	1135.0	0.0	311	6705.0	1135.0	0.0	312	6815.0	1135.0	0.0
313	6940.0	1135.0	0.0	314	6970.0	1135.0	0.0	315	7040.0	1135.0	0.0
316	0.0	1155.0	0.0	317	8080.0	1155.0	0.0	318	1375.0	1170.0	0.0
319	1730.0	1170.0	0.0	320	6350.0	1170.0	0.0	321	6705.0	1170.0	0.0
322	1040.0	1171.0	0.0	323	7040.0	1171.0	0.0	324	3095.0	1180.0	0.0
325	4985.0	1180.0	0.0	326	4195.0	1188.3	0.0	327	4500.0	1188.3	0.0
328	0.0	1205.0	0.0	329	8080.0	1205.0	0.0	330	0.0	1230.0	0.0
333	8080.0	1230.0	0.0	334	3580.0	1238.8	0.0	335	0.0	1255.0	0.0
336	8080.0	1255.0	0.0	337	3885.0	1260.0	0.0	338	3095.0	1280.0	0.0
339	4985.0	1280.0	0.0	340	1040.0	1291.0	0.0	341	7040.0	1291.0	0.0
342	1375.0	1295.0	0.0	343	1730.0	1295.0	0.0	344	6350.0	1295.0	0.0
345	6705.0	1295.0	0.0	346	0.0	1305.0	0.0	347	8080.0	1305.0	0.0
348	3095.0	1310.0	0.0	349	4985.0	1310.0	0.0	350	3885.0	1340.0	0.0
351	3095.0	1390.0	0.0	352	3165.0	1390.0	0.0	353	3275.0	1390.0	0.0
354	3395.0	1390.0	0.0	355	3525.0	1390.0	0.0	356	3580.0	1390.0	0.0
357	3655.0	1390.0	0.0	358	3775.0	1390.0	0.0	359	3885.0	1390.0	0.0
360	3950.0	1390.0	0.0	361	4110.0	1390.0	0.0	362	4195.0	1390.0	0.0
363	4325.0	1390.0	0.0	364	4445.0	1390.0	0.0	365	4500.0	1390.0	0.0
366	4685.0	1390.0	0.0	367	4805.0	1390.0	0.0	368	4915.0	1390.0	0.0
369	4985.0	1390.0	0.0	370	1730.0	1420.0	0.0	371	6350.0	1420.0	0.0
372	0.0	1430.0	0.0	373	8080.0	1430.0	0.0	374	1040.0	1448.0	0.0
375	7040.0	1448.0	0.0	376	1375.0	1475.0	0.0	377	6705.0	1475.0	0.0
378	1730.0	1537.5	0.0	379	6350.0	1537.5	0.0	380	0.0	1555.0	0.0
381	8080.0	1555.0	0.0	382	0.0	1605.0	0.0	383	1040.0	1605.0	0.0

384	7040.0	1605.0	0.0	385	8080.0	1605.0	0.0	386	0.0	1630.0	0.0
388	1040.0	1630.0	0.0	389	7040.0	1630.0	0.0	391	8080.0	1630.0	0.0
392	0.0	1655.0	0.0	393	1040.0	1655.0	0.0	394	1090.0	1655.0	0.0
395	1215.0	1655.0	0.0	396	1340.0	1655.0	0.0	397	1375.0	1655.0	0.0
398	1410.0	1655.0	0.0	399	1535.0	1655.0	0.0	400	1660.0	1655.0	0.0
401	1730.0	1655.0	0.0	402	6350.0	1655.0	0.0	403	6420.0	1655.0	0.0
404	6545.0	1655.0	0.0	405	6670.0	1655.0	0.0	406	6705.0	1655.0	0.0
407	6740.0	1655.0	0.0	408	6865.0	1655.0	0.0	409	6990.0	1655.0	0.0
410	7040.0	1655.0	0.0	411	8080.0	1655.0	0.0	412	0.0	1705.0	0.0
413	1040.0	1705.0	0.0	414	7040.0	1705.0	0.0	415	8080.0	1705.0	0.0
416	0.0	1830.0	0.0	417	1040.0	1830.0	0.0	418	7040.0	1830.0	0.0
419	8080.0	1830.0	0.0	420	0.0	1955.0	0.0	421	1040.0	1955.0	0.0
422	7040.0	1955.0	0.0	423	8080.0	1955.0	0.0	424	0.0	1985.0	0.0
425	1040.0	1985.0	0.0	426	7040.0	1985.0	0.0	427	8080.0	1985.0	0.0
428	0.0	2055.0	0.0	429	70.0	2055.0	0.0	430	120.0	2055.0	0.0
431	235.0	2055.0	0.0	432	350.0	2055.0	0.0	433	400.0	2055.0	0.0
434	640.0	2055.0	0.0	435	690.0	2055.0	0.0	436	805.0	2055.0	0.0
437	920.0	2055.0	0.0	438	970.0	2055.0	0.0	439	1040.0	2055.0	0.0
440	7040.0	2055.0	0.0	441	7110.0	2055.0	0.0	442	7135.0	2055.0	0.0
443	7275.0	2055.0	0.0	444	7390.0	2055.0	0.0	445	7440.0	2055.0	0.0
446	7680.0	2055.0	0.0	447	7730.0	2055.0	0.0	448	7845.0	2055.0	0.0
449	7960.0	2055.0	0.0	450	8010.0	2055.0	0.0	451	8080.0	2055.0	0.0
452	7040.0	2110.0	0.0	453	8080.0	2110.0	0.0	454	7040.0	2235.0	0.0
455	8080.0	2235.0	0.0	456	7040.0	2360.0	0.0	457	8080.0	2360.0	0.0
458	7040.0	2510.0	0.0	459	8080.0	2510.0	0.0	460	7040.0	2635.0	0.0
461	7110.0	2635.0	0.0	462	7260.0	2635.0	0.0	463	7385.0	2635.0	0.0
464	7595.0	2635.0	0.0	465	7695.0	2635.0	0.0	466	7895.0	2635.0	0.0
467	7995.0	2635.0	0.0	468	8080.0	2635.0	0.0	469	7040.0	2760.0	0.0
470	8080.0	2760.0	0.0	471	7040.0	2910.0	0.0	472	8080.0	2910.0	0.0
473	7040.0	3035.0	0.0	474	8080.0	3035.0	0.0	475	7040.0	3160.0	0.0
476	8080.0	3160.0	0.0	477	7040.0	3190.0	0.0	478	8080.0	3190.0	0.0
479	7040.0	3270.0	0.0	480	7120.0	3270.0	0.0	481	7280.0	3270.0	0.0
482	7440.0	3270.0	0.0	483	7680.0	3270.0	0.0	484	7840.0	3270.0	0.0
485	8000.0	3270.0	0.0	486	8080.0	3270.0	0.0				

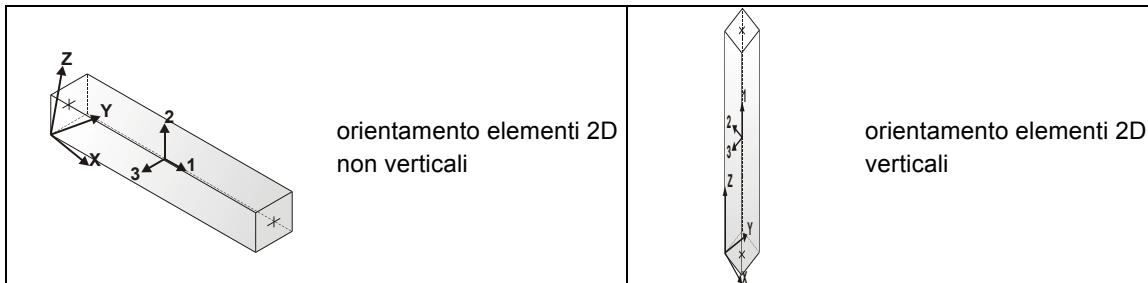
Nodo	X cm	Y cm	Z cm	Note	Rig. TX daN/cm	Rig. TY daN/cm	Rig. TZ daN/cm	Rig. RX daN cm/rad	Rig. RY daN cm/rad	Rig. RZ daN cm/rad
150	520.0	425.0	0.0	FS=1						
154	7560.0	425.0	0.0	FS=1						
190	1465.0	615.0	0.0	FS=1						
191	1865.0	615.0	0.0	FS=1						
192	2265.0	615.0	0.0	FS=1						
193	2670.0	615.0	0.0	FS=1						
194	5410.0	615.0	0.0	FS=1						
195	5815.0	615.0	0.0	FS=1						
196	6215.0	615.0	0.0	FS=1						
197	6615.0	615.0	0.0	FS=1						
231	520.0	830.0	0.0	FS=1						
234	7560.0	830.0	0.0	FS=1						
331	520.0	1230.0	0.0	FS=1						
332	7560.0	1230.0	0.0	FS=1						
387	520.0	1630.0	0.0	FS=1						
390	7560.0	1630.0	0.0	FS=1						

## TABELLA DATI TRAVI

Il programma utilizza per la modellazione elementi a due nodi denominati in generale travi.

Ogni elemento trave è individuato dal nodo iniziale e dal nodo finale.

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.



In particolare per ogni elemento viene indicato in tabella:

<b>Elem.</b>	numero dell'elemento
<b>Note</b>	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa,

	asta compressa
<b>Nodo I (J)</b>	numero del nodo iniziale (finale)
<b>Mat.</b>	codice del materiale assegnato all'elemento
<b>Sez.</b>	codice della sezione assegnata all'elemento
<b>Rotaz.</b>	valore della rotazione dell'elemento, attorno al proprio asse, nel caso in cui l'orientamento di default non sia adottabile; l'orientamento di default prevede per gli elementi non verticali l'asse 2 contenuto nel piano verticale e l'asse 3 orizzontale, per gli elementi verticali l'asse 2 diretto secondo X negativo e l'asse 3 diretto secondo Y negativo
<b>Svincolo I (J)</b>	codici di svincolo per le azioni interne; i primi sei codici si riferiscono al nodo iniziale, i restanti sei al nodo finale (il valore 1 indica che la relativa azione interna non è attiva)
<b>Wink V</b>	costante di sottofondo (coefficiente di Winkler) per la modellazione della trave su suolo elastico
<b>Wink O</b>	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
96	Trave f.	1	2	1	9				1.00	1.00
97	Trave f.	2	3	1	9				1.00	1.00
98	Trave f.	3	4	1	9				1.00	1.00
99	Trave f.	4	5	1	9				1.00	1.00
100	Trave f.	5	6	1	9				1.00	1.00
101	Trave f.	6	7	1	9				1.00	1.00
102	Trave f.	8	9	1	9				1.00	1.00
103	Trave f.	9	10	1	9				1.00	1.00
104	Trave f.	10	11	1	9				1.00	1.00
105	Trave f.	11	12	1	9				1.00	1.00
106	Trave f.	12	13	1	9				1.00	1.00
107	Trave f.	13	14	1	9				1.00	1.00
108	Trave f.	7	15	1	9				1.00	1.00
109	Trave f.	8	22	1	9				1.00	1.00
110	Trave f.	1	23	1	9				1.00	1.00
111	Trave f.	14	24	1	9				1.00	1.00
112	Trave f.	15	16	1	9				1.00	1.00
113	Trave f.	16	17	1	9				1.00	1.00
114	Trave f.	17	18	1	9				1.00	1.00
115	Trave f.	18	19	1	9				1.00	1.00
116	Trave f.	19	20	1	9				1.00	1.00
117	Trave f.	20	21	1	9				1.00	1.00
118	Trave f.	21	22	1	9				1.00	1.00
119	Trave f.	24	25	1	9				1.00	1.00
120	Trave f.	23	48	1	9				1.00	1.00
121	Trave f.	15	52	1	9				1.00	1.00
122	Trave f.	22	53	1	9				1.00	1.00
123	Trave f.	25	49	1	9				1.00	1.00
124	Trave f.	26	27	1	9				1.00	1.00
125	Trave f.	27	28	1	9				1.00	1.00
126	Trave f.	28	29	1	9				1.00	1.00
127	Trave f.	29	30	1	9				1.00	1.00
128	Trave f.	30	31	1	9				1.00	1.00
129	Trave f.	31	32	1	9				1.00	1.00
130	Trave f.	32	33	1	9				1.00	1.00
131	Trave f.	33	34	1	9				1.00	1.00
132	Trave f.	34	35	1	9				1.00	1.00
133	Trave f.	35	36	1	9				1.00	1.00
134	Trave f.	37	38	1	9				1.00	1.00
135	Trave f.	38	39	1	9				1.00	1.00
136	Trave f.	39	40	1	9				1.00	1.00
137	Trave f.	40	41	1	9				1.00	1.00
138	Trave f.	41	42	1	9				1.00	1.00
139	Trave f.	42	43	1	9				1.00	1.00
140	Trave f.	43	44	1	9				1.00	1.00
141	Trave f.	44	45	1	9				1.00	1.00
142	Trave f.	45	46	1	9				1.00	1.00
143	Trave f.	46	47	1	9				1.00	1.00
144	Trave f.	26	50	1	9				1.00	1.00
145	Trave f.	47	51	1	9				1.00	1.00
146	Trave f.	36	54	1	9				1.00	1.00
147	Trave f.	37	115	1	9				1.00	1.00
148	Trave f.	48	84	1	9				1.00	1.00
149	Trave f.	49	85	1	9				1.00	1.00
150	Trave f.	50	116	1	9				1.00	1.00
151	Trave f.	51	117	1	9				1.00	1.00
152	Trave f.	54	55	1	9				1.00	1.00
153	Trave f.	55	56	1	9				1.00	1.00

154	Trave f.	56	57	1	9	1.00	1.00
155	Trave f.	57	58	1	9	1.00	1.00
156	Trave f.	58	59	1	9	1.00	1.00
157	Trave f.	59	60	1	9	1.00	1.00
158	Trave f.	60	61	1	9	1.00	1.00
159	Trave f.	61	62	1	9	1.00	1.00
160	Trave f.	62	63	1	9	1.00	1.00
161	Trave f.	63	64	1	9	1.00	1.00
162	Trave f.	64	65	1	9	1.00	1.00
163	Trave f.	65	66	1	9	1.00	1.00
164	Trave f.	66	67	1	9	1.00	1.00
165	Trave f.	67	68	1	9	1.00	1.00
166	Trave f.	68	69	1	9	1.00	1.00
167	Trave f.	69	70	1	9	1.00	1.00
168	Trave f.	70	71	1	9	1.00	1.00
169	Trave f.	71	72	1	9	1.00	1.00
170	Trave f.	72	73	1	9	1.00	1.00
171	Trave f.	73	74	1	9	1.00	1.00
172	Trave f.	74	75	1	9	1.00	1.00
173	Trave f.	75	76	1	9	1.00	1.00
174	Trave f.	76	77	1	9	1.00	1.00
175	Trave f.	77	78	1	9	1.00	1.00
176	Trave f.	78	79	1	9	1.00	1.00
177	Trave f.	79	80	1	9	1.00	1.00
178	Trave f.	80	81	1	9	1.00	1.00
179	Trave f.	81	82	1	9	1.00	1.00
180	Trave f.	82	83	1	9	1.00	1.00
181	Trave f.	83	84	1	9	1.00	1.00
182	Trave f.	85	86	1	9	1.00	1.00
183	Trave f.	86	87	1	9	1.00	1.00
184	Trave f.	87	88	1	9	1.00	1.00
185	Trave f.	88	89	1	9	1.00	1.00
186	Trave f.	89	90	1	9	1.00	1.00
187	Trave f.	90	91	1	9	1.00	1.00
188	Trave f.	91	92	1	9	1.00	1.00
189	Trave f.	92	93	1	9	1.00	1.00
190	Trave f.	93	94	1	9	1.00	1.00
191	Trave f.	94	95	1	9	1.00	1.00
192	Trave f.	95	96	1	9	1.00	1.00
193	Trave f.	96	97	1	9	1.00	1.00
194	Trave f.	97	98	1	9	1.00	1.00
195	Trave f.	98	99	1	9	1.00	1.00
196	Trave f.	99	100	1	9	1.00	1.00
197	Trave f.	100	101	1	9	1.00	1.00
198	Trave f.	101	102	1	9	1.00	1.00
199	Trave f.	102	103	1	9	1.00	1.00
200	Trave f.	103	104	1	9	1.00	1.00
201	Trave f.	104	105	1	9	1.00	1.00
202	Trave f.	105	106	1	9	1.00	1.00
203	Trave f.	106	107	1	9	1.00	1.00
204	Trave f.	107	108	1	9	1.00	1.00
205	Trave f.	108	109	1	9	1.00	1.00
206	Trave f.	109	110	1	9	1.00	1.00
207	Trave f.	110	111	1	9	1.00	1.00
208	Trave f.	111	112	1	9	1.00	1.00
209	Trave f.	112	113	1	9	1.00	1.00
210	Trave f.	113	114	1	9	1.00	1.00
211	Trave f.	114	115	1	9	1.00	1.00
212	Trave f.	52	118	1	9	1.00	1.00
213	Trave f.	53	127	1	9	1.00	1.00
214	Trave f.	118	119	1	9	1.00	1.00
215	Trave f.	119	120	1	9	1.00	1.00
216	Trave f.	120	121	1	9	1.00	1.00
217	Trave f.	121	122	1	9	1.00	1.00
218	Trave f.	122	123	1	9	1.00	1.00
219	Trave f.	123	124	1	9	1.00	1.00
220	Trave f.	124	125	1	9	1.00	1.00
221	Trave f.	125	126	1	9	1.00	1.00
222	Trave f.	126	127	1	9	1.00	1.00
223	Trave f.	84	128	1	9	1.00	1.00
224	Trave f.	85	129	1	9	1.00	1.00
225	Trave f.	116	130	1	9	1.00	1.00
226	Trave f.	117	131	1	9	1.00	1.00
227	Trave f.	54	132	1	9	1.00	1.00
228	Trave f.	115	133	1	9	1.00	1.00
229	Trave f.	121	134	1	9	1.00	1.00
230	Trave f.	124	135	1	9	1.00	1.00
231	Trave f.	118	136	1	10	1.00	1.00
232	Trave f.	127	139	1	10	1.00	1.00
233	Trave f.	128	137	1	9	1.00	1.00
234	Trave f.	129	138	1	9	1.00	1.00
235	Trave f.	130	140	1	9	1.00	1.00
236	Trave f.	131	141	1	9	1.00	1.00
237	Trave f.	132	145	1	9	1.00	1.00
238	Trave f.	133	146	1	9	1.00	1.00
239	Trave f.	134	142	1	9	1.00	1.00
240	Trave f.	135	143	1	9	1.00	1.00
241	Trave f.	136	161	1	10	1.00	1.00

242	Trave f.	140	144	1	9	1.00	1.00
243	Trave f.	139	148	1	10	1.00	1.00
244	Trave f.	141	147	1	9	1.00	1.00
245	Trave f.	137	156	1	9	1.00	1.00
246	Trave f.	138	175	1	9	1.00	1.00
247	Trave f.	142	152	1	9	1.00	1.00
248	Trave f.	143	167	1	9	1.00	1.00
249	Trave f.	144	149	1	9	1.00	1.00
250	Trave f.	145	151	1	9	1.00	1.00
251	Trave f.	146	153	1	9	1.00	1.00
252	Trave f.	147	155	1	9	1.00	1.00
253	Trave f.	148	170	1	10	1.00	1.00
254	Trave f.	152	166	1	9	1.00	1.00
255	Trave f.	149	176	1	9	1.00	1.00
256	Trave f.	151	177	1	9	1.00	1.00
257	Trave f.	153	178	1	9	1.00	1.00
258	Trave f.	155	179	1	9	1.00	1.00
259	Trave f.	156	157	1	9	1.00	1.00
260	Trave f.	157	158	1	9	1.00	1.00
261	Trave f.	158	159	1	9	1.00	1.00
262	Trave f.	159	160	1	9	1.00	1.00
263	Trave f.	160	161	1	9	1.00	1.00
264	Trave f.	161	162	1	9	1.00	1.00
265	Trave f.	162	163	1	9	1.00	1.00
266	Trave f.	163	164	1	9	1.00	1.00
267	Trave f.	164	165	1	9	1.00	1.00
268	Trave f.	165	166	1	9	1.00	1.00
270	Trave f.	167	168	1	9	1.00	1.00
271	Trave f.	168	169	1	9	1.00	1.00
272	Trave f.	169	170	1	9	1.00	1.00
273	Trave f.	170	171	1	9	1.00	1.00
274	Trave f.	171	172	1	9	1.00	1.00
275	Trave f.	172	173	1	9	1.00	1.00
276	Trave f.	173	174	1	9	1.00	1.00
277	Trave f.	174	175	1	9	1.00	1.00
278	Trave f.	156	181	1	9	1.00	1.00
279	Trave f.	175	182	1	9	1.00	1.00
280	Trave f.	177	180	1	9	1.00	1.00
281	Trave f.	178	183	1	9	1.00	1.00
282	Trave f.	176	184	1	9	1.00	1.00
283	Trave f.	179	185	1	9	1.00	1.00
284	Trave f.	180	186	1	9	1.00	1.00
285	Trave f.	181	187	1	9	1.00	1.00
286	Trave f.	182	188	1	9	1.00	1.00
287	Trave f.	183	189	1	9	1.00	1.00
288	Trave f.	184	198	1	9	1.00	1.00
289	Trave f.	185	199	1	9	1.00	1.00
290	Trave f.	186	200	1	9	1.00	1.00
291	Trave f.	187	201	1	9	1.00	1.00
292	Trave f.	188	202	1	9	1.00	1.00
293	Trave f.	189	203	1	9	1.00	1.00
294	Trave f.	198	204	1	9	1.00	1.00
295	Trave f.	199	209	1	9	1.00	1.00
296	Trave f.	200	205	1	9	1.00	1.00
297	Trave f.	201	206	1	9	1.00	1.00
298	Trave f.	202	207	1	9	1.00	1.00
299	Trave f.	203	208	1	9	1.00	1.00
300	Trave f.	206	210	1	9	1.00	1.00
301	Trave f.	207	225	1	9	1.00	1.00
302	Trave f.	204	226	1	9	1.00	1.00
303	Trave f.	205	227	1	9	1.00	1.00
304	Trave f.	208	228	1	9	1.00	1.00
305	Trave f.	209	229	1	9	1.00	1.00
306	Trave f.	210	211	1	9	1.00	1.00
307	Trave f.	211	212	1	9	1.00	1.00
308	Trave f.	212	213	1	9	1.00	1.00
309	Trave f.	213	214	1	9	1.00	1.00
310	Trave f.	214	215	1	9	1.00	1.00
311	Trave f.	215	216	1	9	1.00	1.00
312	Trave f.	216	217	1	9	1.00	1.00
313	Trave f.	217	218	1	9	1.00	1.00
315	Trave f.	219	220	1	9	1.00	1.00
316	Trave f.	220	221	1	9	1.00	1.00
317	Trave f.	221	222	1	9	1.00	1.00
318	Trave f.	222	223	1	9	1.00	1.00
319	Trave f.	223	224	1	9	1.00	1.00
320	Trave f.	224	225	1	9	1.00	1.00
321	Trave f.	226	230	1	9	1.00	1.00
322	Trave f.	227	232	1	9	1.00	1.00
323	Trave f.	228	233	1	9	1.00	1.00
324	Trave f.	229	235	1	9	1.00	1.00
325	Trave f.	230	236	1	9	1.00	1.00
326	Trave f.	232	237	1	9	1.00	1.00
327	Trave f.	233	238	1	9	1.00	1.00
328	Trave f.	235	239	1	9	1.00	1.00
329	Trave f.	210	240	1	9	1.00	1.00
330	Trave f.	225	241	1	9	1.00	1.00
331	Trave f.	215	244	1	9	1.00	1.00

332	Trave f.	218	245	1	9	1.00	1.00
333	Trave f.	236	242	1	9	1.00	1.00
334	Trave f.	239	243	1	9	1.00	1.00
335	Trave f.	219	246	1	9	1.00	1.00
336	Trave f.	222	247	1	9	1.00	1.00
337	Trave f.	237	248	1	9	1.00	1.00
338	Trave f.	238	249	1	9	1.00	1.00
339	Trave f.	240	250	1	9	1.00	1.00
340	Trave f.	241	251	1	9	1.00	1.00
341	Trave f.	242	252	1	9	1.00	1.00
342	Trave f.	243	253	1	9	1.00	1.00
343	Trave f.	244	254	1	9	1.00	1.00
344	Trave f.	245	255	1	9	1.00	1.00
345	Trave f.	248	256	1	9	1.00	1.00
346	Trave f.	249	315	1	9	1.00	1.00
347	Trave f.	250	285	1	9	1.00	1.00
348	Trave f.	251	286	1	9	1.00	1.00
349	Trave f.	246	326	1	9	1.00	1.00
350	Trave f.	247	327	1	9	1.00	1.00
351	Trave f.	252	316	1	9	1.00	1.00
352	Trave f.	253	317	1	9	1.00	1.00
353	Trave f.	256	257	1	9	1.00	1.00
354	Trave f.	257	258	1	9	1.00	1.00
355	Trave f.	258	259	1	9	1.00	1.00
356	Trave f.	259	260	1	9	1.00	1.00
357	Trave f.	260	261	1	9	1.00	1.00
358	Trave f.	261	262	1	9	1.00	1.00
359	Trave f.	262	263	1	9	1.00	1.00
360	Trave f.	263	264	1	9	1.00	1.00
361	Trave f.	264	265	1	9	1.00	1.00
362	Trave f.	265	266	1	9	1.00	1.00
363	Trave f.	266	267	1	9	1.00	1.00
364	Trave f.	267	268	1	9	1.00	1.00
365	Trave f.	268	269	1	9	1.00	1.00
366	Trave f.	269	270	1	9	1.00	1.00
367	Trave f.	270	271	1	9	1.00	1.00
368	Trave f.	271	272	1	9	1.00	1.00
369	Trave f.	272	273	1	9	1.00	1.00
370	Trave f.	273	274	1	9	1.00	1.00
371	Trave f.	274	275	1	9	1.00	1.00
372	Trave f.	275	276	1	9	1.00	1.00
373	Trave f.	276	277	1	9	1.00	1.00
374	Trave f.	277	278	1	9	1.00	1.00
375	Trave f.	278	279	1	9	1.00	1.00
376	Trave f.	279	280	1	9	1.00	1.00
377	Trave f.	280	281	1	9	1.00	1.00
378	Trave f.	281	282	1	9	1.00	1.00
379	Trave f.	282	283	1	9	1.00	1.00
380	Trave f.	283	284	1	9	1.00	1.00
381	Trave f.	284	285	1	9	1.00	1.00
382	Trave f.	286	287	1	9	1.00	1.00
383	Trave f.	287	288	1	9	1.00	1.00
384	Trave f.	288	289	1	9	1.00	1.00
385	Trave f.	289	290	1	9	1.00	1.00
386	Trave f.	290	291	1	9	1.00	1.00
387	Trave f.	291	292	1	9	1.00	1.00
388	Trave f.	292	293	1	9	1.00	1.00
389	Trave f.	293	294	1	9	1.00	1.00
390	Trave f.	294	295	1	9	1.00	1.00
391	Trave f.	295	296	1	9	1.00	1.00
392	Trave f.	296	297	1	9	1.00	1.00
393	Trave f.	297	298	1	9	1.00	1.00
394	Trave f.	298	299	1	9	1.00	1.00
395	Trave f.	299	300	1	9	1.00	1.00
396	Trave f.	300	301	1	9	1.00	1.00
397	Trave f.	301	302	1	9	1.00	1.00
398	Trave f.	302	303	1	9	1.00	1.00
399	Trave f.	303	304	1	9	1.00	1.00
400	Trave f.	304	305	1	9	1.00	1.00
401	Trave f.	305	306	1	9	1.00	1.00
402	Trave f.	306	307	1	9	1.00	1.00
403	Trave f.	307	308	1	9	1.00	1.00
404	Trave f.	308	309	1	9	1.00	1.00
405	Trave f.	309	310	1	9	1.00	1.00
406	Trave f.	310	311	1	9	1.00	1.00
407	Trave f.	311	312	1	9	1.00	1.00
408	Trave f.	312	313	1	9	1.00	1.00
409	Trave f.	313	314	1	9	1.00	1.00
410	Trave f.	314	315	1	9	1.00	1.00
411	Trave f.	260	318	1	9	1.00	1.00
412	Trave f.	265	319	1	9	1.00	1.00
413	Trave f.	305	320	1	9	1.00	1.00
414	Trave f.	311	321	1	9	1.00	1.00
415	Trave f.	256	322	1	9	1.00	1.00
416	Trave f.	315	323	1	9	1.00	1.00
417	Trave f.	285	324	1	9	1.00	1.00
418	Trave f.	286	325	1	9	1.00	1.00
419	Trave f.	254	334	1	9	1.00	1.00

420	Trave f.	316	328	1	9	1.00	1.00
421	Trave f.	317	329	1	9	1.00	1.00
422	Trave f.	255	337	1	9	1.00	1.00
423	Trave f.	328	330	1	9	1.00	1.00
424	Trave f.	329	333	1	9	1.00	1.00
425	Trave f.	324	338	1	9	1.00	1.00
426	Trave f.	325	339	1	9	1.00	1.00
427	Trave f.	322	340	1	9	1.00	1.00
428	Trave f.	323	341	1	9	1.00	1.00
429	Trave f.	318	342	1	9	1.00	1.00
430	Trave f.	319	343	1	9	1.00	1.00
431	Trave f.	320	344	1	9	1.00	1.00
432	Trave f.	321	345	1	9	1.00	1.00
433	Trave f.	330	335	1	9	1.00	1.00
434	Trave f.	333	336	1	9	1.00	1.00
435	Trave f.	335	346	1	9	1.00	1.00
436	Trave f.	336	347	1	9	1.00	1.00
437	Trave f.	326	362	1	9	1.00	1.00
438	Trave f.	327	365	1	9	1.00	1.00
439	Trave f.	338	348	1	9	1.00	1.00
440	Trave f.	339	349	1	9	1.00	1.00
441	Trave f.	337	350	1	9	1.00	1.00
442	Trave f.	334	356	1	9	1.00	1.00
443	Trave f.	348	351	1	9	1.00	1.00
444	Trave f.	349	369	1	9	1.00	1.00
445	Trave f.	343	370	1	9	1.00	1.00
446	Trave f.	344	371	1	9	1.00	1.00
447	Trave f.	350	359	1	9	1.00	1.00
448	Trave f.	346	372	1	9	1.00	1.00
449	Trave f.	347	373	1	9	1.00	1.00
450	Trave f.	340	374	1	9	1.00	1.00
451	Trave f.	341	375	1	9	1.00	1.00
452	Trave f.	342	376	1	9	1.00	1.00
453	Trave f.	345	377	1	9	1.00	1.00
454	Trave f.	351	352	1	9	1.00	1.00
455	Trave f.	352	353	1	9	1.00	1.00
456	Trave f.	353	354	1	9	1.00	1.00
457	Trave f.	354	355	1	9	1.00	1.00
458	Trave f.	355	356	1	9	1.00	1.00
459	Trave f.	356	357	1	9	1.00	1.00
460	Trave f.	357	358	1	9	1.00	1.00
461	Trave f.	358	359	1	9	1.00	1.00
462	Trave f.	359	360	1	9	1.00	1.00
463	Trave f.	360	361	1	9	1.00	1.00
464	Trave f.	361	362	1	9	1.00	1.00
465	Trave f.	362	363	1	9	1.00	1.00
466	Trave f.	363	364	1	9	1.00	1.00
467	Trave f.	364	365	1	9	1.00	1.00
468	Trave f.	365	366	1	9	1.00	1.00
469	Trave f.	366	367	1	9	1.00	1.00
470	Trave f.	367	368	1	9	1.00	1.00
471	Trave f.	368	369	1	9	1.00	1.00
472	Trave f.	370	378	1	9	1.00	1.00
473	Trave f.	371	379	1	9	1.00	1.00
474	Trave f.	372	380	1	9	1.00	1.00
475	Trave f.	373	381	1	9	1.00	1.00
476	Trave f.	374	383	1	9	1.00	1.00
477	Trave f.	375	384	1	9	1.00	1.00
478	Trave f.	376	397	1	9	1.00	1.00
479	Trave f.	377	406	1	9	1.00	1.00
480	Trave f.	380	382	1	9	1.00	1.00
481	Trave f.	381	385	1	9	1.00	1.00
482	Trave f.	378	401	1	9	1.00	1.00
483	Trave f.	379	402	1	9	1.00	1.00
484	Trave f.	382	386	1	9	1.00	1.00
485	Trave f.	383	388	1	9	1.00	1.00
486	Trave f.	384	389	1	9	1.00	1.00
487	Trave f.	385	391	1	9	1.00	1.00
488	Trave f.	386	392	1	9	1.00	1.00
489	Trave f.	388	393	1	9	1.00	1.00
490	Trave f.	389	410	1	9	1.00	1.00
491	Trave f.	391	411	1	9	1.00	1.00
492	Trave f.	393	394	1	9	1.00	1.00
493	Trave f.	394	395	1	9	1.00	1.00
494	Trave f.	395	396	1	9	1.00	1.00
495	Trave f.	396	397	1	9	1.00	1.00
496	Trave f.	397	398	1	9	1.00	1.00
497	Trave f.	398	399	1	9	1.00	1.00
498	Trave f.	399	400	1	9	1.00	1.00
499	Trave f.	400	401	1	9	1.00	1.00
500	Trave f.	402	403	1	9	1.00	1.00
501	Trave f.	403	404	1	9	1.00	1.00
502	Trave f.	404	405	1	9	1.00	1.00
503	Trave f.	405	406	1	9	1.00	1.00
504	Trave f.	406	407	1	9	1.00	1.00
505	Trave f.	407	408	1	9	1.00	1.00
506	Trave f.	408	409	1	9	1.00	1.00
507	Trave f.	409	410	1	9	1.00	1.00

508	Trave f.	392	412	1	9	1.00	1.00
509	Trave f.	393	413	1	9	1.00	1.00
510	Trave f.	410	414	1	9	1.00	1.00
511	Trave f.	411	415	1	9	1.00	1.00
512	Trave f.	412	416	1	9	1.00	1.00
513	Trave f.	413	417	1	9	1.00	1.00
514	Trave f.	414	418	1	9	1.00	1.00
515	Trave f.	415	419	1	9	1.00	1.00
516	Trave f.	416	420	1	9	1.00	1.00
517	Trave f.	417	421	1	9	1.00	1.00
518	Trave f.	418	422	1	9	1.00	1.00
519	Trave f.	419	423	1	9	1.00	1.00
520	Trave f.	420	424	1	9	1.00	1.00
521	Trave f.	421	425	1	9	1.00	1.00
522	Trave f.	422	426	1	9	1.00	1.00
523	Trave f.	423	427	1	9	1.00	1.00
524	Trave f.	424	428	1	9	1.00	1.00
525	Trave f.	425	439	1	9	1.00	1.00
526	Trave f.	426	440	1	9	1.00	1.00
527	Trave f.	427	451	1	9	1.00	1.00
528	Trave f.	428	429	1	9	1.00	1.00
529	Trave f.	429	430	1	9	1.00	1.00
530	Trave f.	430	431	1	9	1.00	1.00
531	Trave f.	431	432	1	9	1.00	1.00
532	Trave f.	432	433	1	9	1.00	1.00
533	Trave f.	433	434	1	9	1.00	1.00
534	Trave f.	434	435	1	9	1.00	1.00
535	Trave f.	435	436	1	9	1.00	1.00
536	Trave f.	436	437	1	9	1.00	1.00
537	Trave f.	437	438	1	9	1.00	1.00
538	Trave f.	438	439	1	9	1.00	1.00
539	Trave f.	440	441	1	9	1.00	1.00
540	Trave f.	441	442	1	9	1.00	1.00
541	Trave f.	442	443	1	9	1.00	1.00
542	Trave f.	443	444	1	9	1.00	1.00
543	Trave f.	444	445	1	9	1.00	1.00
544	Trave f.	445	446	1	9	1.00	1.00
545	Trave f.	446	447	1	9	1.00	1.00
546	Trave f.	447	448	1	9	1.00	1.00
547	Trave f.	448	449	1	9	1.00	1.00
548	Trave f.	449	450	1	9	1.00	1.00
549	Trave f.	450	451	1	9	1.00	1.00
550	Trave f.	440	452	1	9	1.00	1.00
551	Trave f.	451	453	1	9	1.00	1.00
552	Trave f.	452	454	1	9	1.00	1.00
553	Trave f.	453	455	1	9	1.00	1.00
554	Trave f.	454	456	1	9	1.00	1.00
555	Trave f.	455	457	1	9	1.00	1.00
556	Trave f.	456	458	1	9	1.00	1.00
557	Trave f.	457	459	1	9	1.00	1.00
558	Trave f.	458	460	1	9	1.00	1.00
559	Trave f.	459	468	1	9	1.00	1.00
560	Trave f.	460	461	1	9	1.00	1.00
561	Trave f.	461	462	1	9	1.00	1.00
562	Trave f.	462	463	1	9	1.00	1.00
563	Trave f.	463	464	1	9	1.00	1.00
564	Trave f.	464	465	1	9	1.00	1.00
565	Trave f.	465	466	1	9	1.00	1.00
566	Trave f.	466	467	1	9	1.00	1.00
567	Trave f.	467	468	1	9	1.00	1.00
568	Trave f.	460	469	1	9	1.00	1.00
569	Trave f.	468	470	1	9	1.00	1.00
570	Trave f.	469	471	1	9	1.00	1.00
571	Trave f.	470	472	1	9	1.00	1.00
572	Trave f.	471	473	1	9	1.00	1.00
573	Trave f.	472	474	1	9	1.00	1.00
574	Trave f.	473	475	1	9	1.00	1.00
575	Trave f.	474	476	1	9	1.00	1.00
576	Trave f.	475	477	1	9	1.00	1.00
577	Trave f.	476	478	1	9	1.00	1.00
578	Trave f.	477	479	1	9	1.00	1.00
579	Trave f.	478	486	1	9	1.00	1.00
580	Trave f.	479	480	1	9	1.00	1.00
581	Trave f.	480	481	1	9	1.00	1.00
582	Trave f.	481	482	1	9	1.00	1.00
583	Trave f.	482	483	1	9	1.00	1.00
584	Trave f.	483	484	1	9	1.00	1.00
585	Trave f.	484	485	1	9	1.00	1.00
586	Trave f.	485	486	1	9	1.00	1.00

## **LEGENDA TABELLA DATI AZIONI**

Il programma consente l'uso di diverse tipologie di carico (azioni). Le azioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni azione applicata alla struttura viene di riportato il codice, il



tipo e la sigla identificativa. Le tabelle successive dettagliano i valori caratteristici di ogni azione in relazione al tipo. Le tabelle riportano infatti i seguenti dati in relazione al tipo:

**Tipo** carico distribuito globale su trave

Id	Tipo	Pos.	fx	fy	fz	mx	my	mz
		cm	daN/cm	daN/cm	daN/cm	daN	daN	daN
4	DG:Fzi=-13.00 Fzf=-13.00 scala acc	0.0	0.0	0.0	-13.00	0.0	0.0	0.0
		0.0	0.0	0.0	-13.00	0.0	0.0	0.0
5	DG:Fzi=-10.00 Fzf=-10.00 scala per	0.0	0.0	0.0	-10.00	0.0	0.0	0.0
		0.0	0.0	0.0	-10.00	0.0	0.0	0.0

Che rappresentano i sovraccarichi accidentali e permanente della scala sulle murature

### LEGENDA TABELLA DATI SOLAI

Il programma utilizza per la modellazione elementi a tre o più nodi denominati in generale solaio. Ogni elemento solaio è individuato da una poligonale di nodi 1,2, ..., N. L'elemento solaio è utilizzato in primo luogo per la modellazione dei carichi agenti sugli elementi strutturali. In secondo luogo può essere utilizzato per la corretta ripartizione delle forze orizzontali agenti nel proprio piano. L'elemento balcone è derivato dall'elemento solaio. I carichi agenti sugli elementi, raccolti in un archivio, sono direttamente assegnati agli elementi utilizzando le informazioni raccolte nell' archivio (es. i coefficienti combinatori). La tabella seguente riporta i dati utilizzati per la definizione dei carichi e delle masse.

<b>Id.Arch.</b>	Identificativo dell' archivio
<b>Tipo</b>	Tipo di carico <b>Variab.</b> Carico variabile generico <b>Var. rid.</b> Carico variabile generico con riduzione in funzione dell' area (c.5.5. ...) <b>Neve</b> Carico di neve
<b>G1k</b>	carico permanente (comprensivo del peso proprio)
<b>G2k</b>	carico permanente non strutturale e non compiutamente definito
<b>Qk</b>	carico variabile
<b>Fatt. A</b>	fattore di riduzione del carico variabile (0.5 o 0.75) per tipo "Var.rid."
<b>S sis.</b>	fattore di riduzione del carico variabile per la definizione delle masse sismiche per D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento")
<b>Psi 0</b>	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: <b>per valore raro</b>
<b>Psi 1</b>	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: <b>per valore frequente</b>
<b>Psi 2</b>	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: <b>per valore quasi permanente</b>
<b>Psi S 2</b>	Coefficiente di combinazione che fornisce il valore quasi-permanente dell'azione variabile: <b>per la definizione delle masse sismiche</b>
<b>Fatt. Fi</b>	Coefficiente di correlazione dei carichi per edifici

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione. In particolare per ogni elemento viene indicato in tabella:

<b>Elem</b>	numero dell'elemento
<b>Tipo</b>	codice di comportamento <b>S</b> elemento utilizzato solo per scarico <b>C</b> elemento utilizzato per scarico e per modellazione piano rigido <b>M</b> scarico monodirezionale <b>B</b> scarico bidirezionale
<b>Id.Arch.</b>	Identificativo dell' archivio
<b>Mat</b>	codice del materiale assegnato all'elemento
<b>Spessore</b>	spessore dell'elemento (costante)
<b>Orditura</b>	angolo (rispetto all'asse X) della direzione dei travetti principali
<b>Gk</b>	carico permanente (comprensivo del peso proprio)
<b>Qk</b>	carico variabile
<b>Nodi</b>	numero dei nodi che definiscono l'elemento (5 per riga)

ID Arch.	Tipo	G1k daN/cm2	G2k daN/cm2	Qk daN/cm2	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
S1	Variab.	3.78e-02	3.20e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
S2	Variab.	2.14e-02	1.60e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
S3	Variab.	6.22e-02	4.00e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
S4	Variab.	2.97e-02		3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
S6	Variab.	9.50e-03				1.00	0.0	0.0	0.0	0.0	1.00
S7	Variab.	3.40e-02	9.00e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
S8	Variab.	3.40e-02	3.00e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
S9	Variab.	8.50e-03				1.00	0.0	0.0	0.0	0.0	1.00
S10	Neve	3.28e-02		1.20e-02		1.00	0.50	0.20	0.0	0.0	1.00
S11	Variab.	9.00e-03				1.00	0.0	0.0	0.0	0.0	1.00
volta12	Variab.	6.00e-02	4.00e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00
cop lignea13	Neve	1.00e-02		1.20e-02		1.00	0.50	0.20	0.0	0.0	1.00
cop. Tav.14	Neve	1.50e-02		1.20e-02		1.00	0.50	0.20	0.0	0.0	1.00
S2 bis15	Variab.	2.01e-02	1.60e-03	3.00e-02		1.00	0.70	0.70	0.60	0.60	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k daN/cm2	G2k daN/cm2	Qk daN/cm2	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
1	SB	12	m=10	1.0	90.0	6.00e-02	4.00e-03	3.00e-02	1488	1448	1449	1450	1451
									1452	1557	1556	1555	1554
2	SB	12	m=10	1.0	90.0	6.00e-02	4.00e-03	3.00e-02	1454	1455	1456	1457	1458
									1489	1563	1562	1561	1560
3	SB	12	m=10	1.0	90.0	6.00e-02	4.00e-03	3.00e-02	1452	1453	1454	1560	1559
									1558	1557			
4	SB	15	m=10	1.0	0.0	2.01e-02	1.60e-03	3.00e-02	1440	1448	1488	1554	1572
									1605	1604	1603	1602	1601
									1600	1573	1564	1520	1484
									1459	1434	1435	1436	1437
									1438	1439			
5	SB	15	m=10	1.0	0.0	2.01e-02	1.60e-03	3.00e-02	1588	1575	1563	1489	1458
									1441	1442	1443	1444	1445
									1446	1447	1460	1461	1485
									1521	1565	1574	1620	1619
									1618	1617	1616	1615	
6	SB	1	m=1	1.0	90.0	3.78e-02	3.20e-03	3.00e-02	1584	1576	1566	1552	1462
									1463	1464	1465	1466	1467
									1468	1469	1470	1471	1472
									1490	1568	1585	1593	1592
									1591	1590	1589		
7	SB	1	m=1	1.0	90.0	3.78e-02	3.20e-03	3.00e-02	1595	1586	1569	1551	1473
									1474	1475	1476	1477	1478
									1479	1480	1481	1482	1483
									1487	1553	1567	1577	1587
									1599				
8	SB	2	m=10	1.0	90.0	2.14e-02	1.60e-03	3.00e-02	1555	1556	1557	1570	1582
									1594	1610	1609	1608	1607
									1606	1605	1572	1554	
9	SB	2	m=10	1.0	90.0	2.14e-02	1.60e-03	3.00e-02	1594	1582	1570	1557	1558
									1559	1560	1571	1583	1612
									1610				
10	SB	2	m=10	1.0	90.0	2.14e-02	1.60e-03	3.00e-02	1583	1571	1560	1561	1562
									1563	1575	1588	1615	1614
									1613	1612			
11	SB	1	m=1	1.0	0.0	3.78e-02	3.20e-03	3.00e-02	1697	1686	1679	1674	1650
									1645	1631	1625	1622	1593
									1585	1568	1490	1491	1492
									1493	1494	1495	1496	1578
									1635	1689	1713	1712	1711
									1710	1709	1708	1707	
12	SB	1	m=1	1.0	0.0	3.78e-02	3.20e-03	3.00e-02	1689	1635	1578	1496	1497
									1498	1499	1500	1501	1502
									1636	1719	1718	1717	1716
									1715	1714	1713		
13	SB	1	m=1	1.0	0.0	3.78e-02	3.20e-03	3.00e-02	1502	1503	1504	1505	1506
									1507	1508	1637	1725	1724
									1723	1722	1721	1720	1719
14	SB	1	m=1	1.0	0.0	3.78e-02	3.20e-03	3.00e-02	1637	1508	1509	1510	1511
									1512	1513	1514	1579	1638
									1690	1731	1730	1729	1728
									1727	1726	1725		
15	SB	1	m=1	1.0	0.0	3.78e-02	3.20e-03	3.00e-02	1690	1638	1579	1514	1515
									1516	1517	1518	1519	1520
									1564	1573	1600	1626	1632
									1646	1651	1655	1680	1703
									1737	1736	1735	1734	1733
									1732	1731			
16	SB	2	m=10	1.0	90.0	2.14e-02	1.60e-03	3.00e-02	1651	1646	1632	1626	1600
									1601	1602	1603	1604	1605
									1606	1607	1608	1609	1610
									1664	1663	1662	1661	1659
									1658	1657	1656	1655	
17	SB	2	m=10	1.0	0.0	2.14e-02	1.60e-03	3.00e-02	1610	1611	1612	1666	1665
									1664				
18	SB	2	m=10	1.0	90.0	2.14e-02	1.60e-03	3.00e-02	1612	1613	1614	1615	1616
									1617	1618	1619	1620	1627

19	SB	1	m=1	1.0	0.0	3.78e-02	3.20e-03	3.00e-02	1633	1647	1652	1672	1671
									1670	1669	1668	1667	1666
									1704	1681	1672	1652	1647
									1633	1627	1620	1574	1565
									1521	1522	1523	1524	1525
									1526	1527	1580	1639	1691
									1744	1743	1742	1741	1740
									1739	1738			
20	SB	1	m=1	1.0	0.0	3.78e-02	3.20e-03	3.00e-02	1691	1639	1580	1527	1528
									1529	1530	1531	1532	1533
									1640	1750	1749	1748	1747
									1746	1745	1744		
21	SB	1	m=1	1.0	0.0	3.78e-02	3.20e-03	3.00e-02	1640	1533	1534	1535	1536
									1537	1539	1641	1756	1755
									1754	1753	1752	1751	1750
22	SB	1	m=1	1.0	0.0	3.78e-02	3.20e-03	3.00e-02	1641	1539	1540	1541	1542
									1543	1544	1545	1581	1642
									1692	1762	1761	1760	1759
									1758	1757	1756		
23	SB	1	m=1	1.0	0.0	3.78e-02	3.20e-03	3.00e-02	1692	1642	1581	1545	1546
									1547	1548	1549	1550	1551
									1569	1586	1595	1623	1628
									1634	1648	1653	1675	1682
									1687	1698	1768	1767	1766
									1765	1764	1763	1762	
24	SB	1	m=1	1.0	90.0	3.78e-02	3.20e-03	3.00e-02	1673	1649	1643	1629	1621
									1589	1590	1591	1592	1593
									1622	1625	1631	1645	1650
									1674	1679	1678	1677	
25	SB	1	m=1	1.0	90.0	3.78e-02	3.20e-03	3.00e-02	1682	1675	1653	1648	1634
									1628	1623	1595	1596	1597
									1598	1599	1624	1630	1644
									1654	1676	1684		
26	SB	1	m=1	1.0	90.0	3.78e-02	3.20e-03	3.00e-02	1781	1769	1701	1693	1685
									1677	1678	1679	1686	1697
									1707	1775	1785	1784	1783
27	SB	1	m=1	1.0	90.0	3.78e-02	3.20e-03	3.00e-02	1786	1776	1768	1698	1687
									1682	1683	1684	1688	1694
									1702	1770	1782	1788	1787
28	SM	4	m=10	1.0	0.0	2.97e-02		3.00e-02	1658	1659	1660	1811	1810
									1809				
29	SB	2	m=10	1.0	0.0	2.14e-02	1.60e-03	3.00e-02	1665	1666	1699	1779	1818
									1817	1816	1815	1805	1792
									1706	1696	1664		
30	CM	3	m=10	20.0	90.0	6.22e-02	4.00e-03	3.00e-02	1779	1699	1666	1667	1668
									1669	1700	1780	1821	1820
									1819	1818			
31	CM	3	m=10	20.0	90.0	6.22e-02	4.00e-03	3.00e-02	1780	1700	1669	1670	1671
									1672	1681	1704	1738	1778
									1794	1804	1825	1824	1823
									1822	1821			
32	SM	4	m=10	1.0	0.0	2.97e-02		3.00e-02	1803	1793	1777	1737	1703
									1680	1655	1656	1657	1658
									1809	1808	1807	1806	
33	SM	7	m=1	1.0	0.0	3.40e-02	9.00e-03	3.00e-02	1846	1839	1830	1795	1785
									1775	1707	1708	1709	1710
									1711	1771	1797	1832	1857
									1856	1855	1854	1853	
34	SM	7	m=1	1.0	0.0	3.40e-02	9.00e-03	3.00e-02	1832	1797	1771	1711	1712
									1713	1714	1715	1716	1772
									1798	1826	1834	1861	1860
									1859	1858	1857		
35	SM	7	m=1	1.0	0.0	3.40e-02	9.00e-03	3.00e-02	1835	1827	1799	1773	1758
									1759	1760	1761	1762	1763
									1764	1774	1800	1833	1866
									1865	1864	1863	1862	
36	SM	7	m=1	1.0	0.0	3.40e-02	9.00e-03	3.00e-02	1833	1800	1774	1764	1765
									1766	1767	1768	1776	1786
									1796	1831	1840	1847	1870
									1869	1868	1867	1866	
37	SB	1	m=1	1.0	90.0	3.78e-02	3.20e-03	3.00e-02	1838	1836	1828	1801	1790
									1783	1784	1785	1795	1830
									1839	1846	1845	1844	1843
									1842				
38	SB	1	m=1	1.0	90.0	3.78e-02	3.20e-03	3.00e-02	1840	1831	1796	1786	1787
									1788	1791	1802	1829	1837
									1841	1851	1850	1849	1848
									1847				
39	SM	4	m=10	1.0	0.0	2.97e-02		3.00e-02	1810	1811	1873	1872	1809
40	SB	1	m=1	1.0	90.0	3.78e-02	3.20e-03	3.00e-02	1886	1882	1878	1874	1852
									1842	1843	1844	1845	1846
									1853	1875	1879	1883	1887
									1902	1901	1900	1899	1898
									1897	1896	1895	1894	1893
									1892	1891	1890		
41	SB	1	m=1	1.0	90.0	3.78e-02	3.20e-03	3.00e-02	1914	1913	1912	1911	1910
									1909	1908	1907	1906	1905
									1904	1903	1888	1884	1880

									1876	1870	1847	1848	1849
									1850	1851	1871	1877	1881
									1885	1889	1915		
42	SB	8	m=1	1.0	90.0	3.40e-02	3.00e-03	3.00e-02	1922	1920	1918	1916	1903
									1904	1905	1906	1907	1908
									1909	1910	1911	1912	1913
									1914	1915	1917	1919	1921
									1923	1932	1931	1930	1929
									1928	1927	1926	1925	1924
43	SB	8	m=1	1.0	90.0	3.40e-02	3.00e-03	3.00e-02	1941	1939	1937	1935	1933
									1924	1925	1926	1927	1928
									1929	1930	1931	1932	1934
									1936	1938	1940	1942	1950
									1949	1948	1947	1946	1945
									1944	1943			
44	SB	9	m=44	1.0	90.0	8.50e-03			3002	2994	2958	2923	2898
									2873	2874	2875	2876	2877
									2878	2879	2887	2927	2992
									3001	3023	3022	3021	3020
									3019	3018			
45	SB	9	m=1	1.0	90.0	8.50e-03			3014	3006	3000	2993	2891
									2892	2893	2894	2895	2896
									2897	2880	2881	2882	2883
									2884	2885	2886	2899	2900
									2924	2959	2995	3003	3036
									3035	3034	3033	3032	3031
									3030	3029	3028	3027	3026
46	SB	9	m=1	1.0	0.0	8.50e-03			3001	2992	2927	2887	2888
									2889	2890	2891	2993	3000
									3006	3014	3026	3025	3024
									3023				
47	SM	13	m=44	1.0	90.0	1.00e-02		1.20e-02	3464	3435	3251	3247	3245
									3237	3211	3200	3193	3431
									3462				
48	SM	13	m=44	1.0	90.0	1.00e-02		1.20e-02	3195	3205	3239	3248	3253
									3393	3436	3464	3462	3432
									3391				
49	SM	13	m=44	1.0	0.0	1.00e-02		1.20e-02	3455	3423	3387	3162	3161
									3160	3159	3158	3157	3156
									3386	3422	3454		
50	SM	13	m=44	1.0	0.0	1.00e-02		1.20e-02	3387	3423	3455	3456	3424
									3388	3168	3167	3166	3165
									3164	3163	3162		
51	SM	13	m=44	1.0	0.0	1.00e-02		1.20e-02	3388	3424	3456	3457	3425
									3389	3174	3173	3172	3171
									3170	3169	3168		
52	SM	13	m=44	1.0	0.0	1.00e-02		1.20e-02	3389	3425	3457	3458	3426
									3390	3180	3179	3178	3177
									3176	3175	3174		
53	SM	13	m=44	1.0	90.0	1.00e-02		1.20e-02	3462	3431	3193	3191	3181
									3112	3106	3102	3094	3427
									3460				
54	SB	9	m=1	1.0	90.0	8.50e-03			3069	3064	3048	3042	3018
									3019	3020	3021	3022	3023
									3078	3077	3076	3075	3074
									3073				
55	SB	9	m=1	1.0	0.0	8.50e-03			3023	3024	3025	3026	3081
									3080	3079	3078		
56	SB	9	m=1	1.0	90.0	8.50e-03			3026	3027	3028	3029	3030
									3031	3032	3033	3034	3035
									3036	3043	3049	3065	3070
									3089	3088	3087	3086	3085
									3084	3083	3082	3081	
57	SM	13	m=44	1.0	90.0	1.00e-02		1.20e-02	3195	3391	3432	3462	3460
									3428	3377	3096	3103	3110
									3118	3187			
58	SM	13	m=44	1.0	90.0	1.00e-02		1.20e-02	3188	3180	3111	3104	3099
									3378	3429	3461	3463	3433
									3392	3196			
59	SM	13	m=44	1.0	90.0	1.00e-02		1.20e-02	3461	3430	3101	3105	3107
									3113	3182	3192	3198	3434
									3463				
60	SB	6	m=44	1.0	0.0	9.50e-03			3289	3285	3281	3277	3257
									3251	3247	3245	3237	3211
									3200	3193	3191	3181	3112
									3106	3102	3094	3090	3067
									3061	3045	3037	3011	3007
									3004	2996	2990	2925	2901
									2902	2903	2904	2905	2906
									2907	2908	2909	2910	2911
									2928	2998	3008	3013	3038
									3041	3047	3063	3068	3091
									3096	3103	3110	3118	3187
									3195	3205	3239	3248	3253
									3258	3278	3282	3286	3290
									3305	3304	3303	3302	3301
									3300	3299	3298	3297	3296
									3295	3294	3293		

61	SB	6	m=44	1.0	0.0	9.50e-03		3291	3287	3283	3279	3275
								3254	3249	3240	3206	3196
								3188	3180	3111	3104	3099
								3092	3071	3066	3050	3044
								3039	3015	3009	2999	2989
								2912	2913	2914	2915	2916
								2917	2918	2919	2920	2921
								2922	2926	2991	2997	3005
								3010	3017	3040	3046	3062
								3072	3093	3101	3105	3107
								3113	3182	3192	3198	3201
								3212	3238	3246	3250	3256
								3276	3280	3284	3288	3292
								3318	3317	3316	3315	3314
								3313	3312	3311	3310	3309
								3308	3307	3306		
62	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3392	3433	3463	3465	3437
								3394	3254	3249	3240	3206
								3196				
63	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3463	3434	3198	3201	3212
								3238	3246	3250	3256	3438
								3465				
64	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3466	3439	3395	3306	3287
								3283	3279	3254	3394	3437
								3465				
65	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3438	3256	3276	3280	3284
								3288	3292	3318	3440	3466
								3465				
66	SB	9	m=44	1.0	90.0	8.50e-03		3213	3203	3189	3149	3114
								3097	3073	3074	3075	3076
								3077	3078	3108	3116	3199
								3221	3220	3219	3218	3217
								3216				
67	SB	9	m=1	1.0	0.0	8.50e-03		3199	3116	3108	3078	3079
								3080	3081	3109	3117	3202
								3215	3224	3223	3222	3221
68	SB	9	m=1	1.0	90.0	8.50e-03		3215	3202	3117	3109	3081
								3082	3083	3084	3085	3086
								3087	3088	3089	3098	3115
								3150	3190	3204	3214	3234
								3233	3232	3231	3230	3229
								3228	3227	3226	3225	3224
69	SM	10	m=1	1.0	0.0	3.28e-02	1.20e-02	3253	3248	3239	3205	3195
								3187	3118	3119	3120	3121
								3122	3183	3207	3241	3262
								3261	3260	3259	3258	
70	SM	10	m=1	1.0	0.0	3.28e-02	1.20e-02	3266	3265	3264	3263	3262
								3241	3207	3183	3122	3123
								3124	3125	3126	3127	3128
								3184	3208	3235	3243	
71	SM	10	m=1	1.0	0.0	3.28e-02	1.20e-02	3244	3236	3209	3185	3170
								3171	3172	3173	3174	3175
								3176	3186	3210	3242	3271
								3270	3269	3268	3267	
72	SM	10	m=1	1.0	0.0	3.28e-02	1.20e-02	3176	3177	3178	3179	3180
								3188	3196	3206	3240	3249
								3254	3275	3274	3273	3272
								3271				
73	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3408	3397	2958	3452	3451
								3450	3449			
74	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	2959	3398	3409	3453	3452
75	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3450	3451	3452	3149	3384
								3420	3449			
76	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3452	3453	3421	3385	3150
77	SM	11	m=1	1.0	90.0	9.00e-03		3325	3323	3321	3319	3306
								3307	3308	3309	3310	3311
								3312	3313	3314	3315	3316
								3317	3318	3320	3322	3324
								3326	3336	3335	3334	3333
								3332	3330	3329	3328	3327
78	SM	11	m=1	1.0	90.0	9.00e-03		3328	3329	3330	3332	3333
								3334	3335	3336	3339	3341
								3343	3345	3347	3356	3355
								3354	3353	3351	3350	3349
								3348	3346	3344	3342	3340
								3337	3327			
79	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3452	2873	2887		
80	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	2897	2886	3452		
81	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	2887	2888	2889	2890	2891
								2892	2893	2894	2895	2896
								2897	3452			
82	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3441	2901	2902	2903	2904
								2905				
83	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	2911	3441	2906	2907	2908
								2909	2910			
84	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	2913	2914	2915	2916	2917
								3442	2912			
85	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	2917	2918	2919	2920	2921

86	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	2922	3442			
87	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	2923	2898	2873	3452	2958
								2886	2899	2900	2924	2959
								3452				
88	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3441	3011	3007	3004	2996
								2990	2925	2901		
89	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	2911	2928	2998	3008	3013
								3400	3441			
90	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3442	3401	3015	3009	2999
								2989	2912			
91	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	2922	2926	2991	2997	3005
								3010	3017	3442		
92	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3213	3203	3189	3149	3452
								3216				
93	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3150	3190	3204	3214	3234
								3452				
94	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3452	3234	3233	3232	3231
								3230	3229	3228	3227	3226
								3225	3224	3223	3222	3221
								3220	3219	3218	3217	3216
95	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3251	3464	3293	3289	3285
								3281	3277	3257		
96	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3436	3253	3258	3278	3282
								3286	3290	3305	3464	
97	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3293	3464	3299	3298	3297
								3296	3295	3294		
98	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3299	3464	3305	3304	3303
								3302	3301	3300		
99	SM	14	m=1	1.0	90.0	1.50e-02	1.20e-02	3352	3351	3350	3349	3348
								3469				
100	SM	14	m=1	1.0	90.0	1.50e-02	1.20e-02	3356	3355	3354	3353	3352
								3469				
101	SM	14	m=1	1.0	0.0	1.50e-02	1.20e-02	3466	3467	3468	3469	3348
								3346	3344	3342	3340	3337
								3327	3325	3323	3321	3319
								3306	3395	3439		
102	SM	14	m=1	1.0	0.0	1.50e-02	1.20e-02	3468	3467	3466	3440	3396
								3318	3320	3322	3324	3326
								3336	3339	3341	3343	3345
								3347	3356	3469		
103	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3444	3403	2928	2929	2930
								2931	2932	2933	2934	3404
								3445				
104	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3446	3445	3404	2934	2935
								2936	2937	2938	2939	2940
								3405				
105	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3447	3446	3405	2940	2941
								2942	2943	2944	2945	2946
								3406				
106	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3448	3447	3406	2946	2947
								2948	2949	2950	2951	2952
								3407				
107	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3407	2952	2953	2954	2955
								2956	2957	2958	3397	3408
								3449	3448			
108	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3409	3398	2959	2960	2961
								2962	2963	2964	2965	3410
								3454	3453			
109	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3410	2965	2966	2967	2968
								2969	2970	2971	3411	3455
								3454				
110	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3411	2971	2972	2973	2974
								2975	2976	2977	3412	3456
								3455				
111	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3412	2977	2978	2979	2980
								2981	2982	2983	3413	3457
								3456				
112	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3457	3413	2983	2984	2985
								2986	2987	2988	2989	3414
								3458				
113	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3460	3427	3094	3090	3067
								3061	3045	3037	3011	3399
								3441				
114	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3013	3038	3041	3047	3063
								3068	3091	3096	3377	3428
								3460	3441	3400	3375	
115	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3376	3401	3442	3461	3429
								3378	3099	3092	3071	3066
								3050	3044	3039	3015	
116	SM	13	m=44	1.0	90.0	1.00e-02	1.20e-02	3442	3402	3017	3040	3046
								3062	3072	3093	3101	3430
								3461				
117	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3124	3123	3122	3121	3120
								3119	3118	3379	3415	3444
								3445	3416	3380		
118	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3131	3130	3128	3127	3126
								3125	3124	3380	3416	3445
								3446	3417	3381		

119	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3137	3136	3135	3134	3133
								3132	3131	3381	3417	3446
								3447	3418	3382		
120	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3448	3419	3383	3143	3142
								3141	3140	3139	3138	3137
								3382	3418	3447		
121	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3449	3420	3384	3149	3148
								3147	3146	3145	3144	3143
								3383	3419	3448		
122	SM	13	m=44	1.0	0.0	1.00e-02	1.20e-02	3385	3421	3453	3454	3422
								3386	3156	3155	3154	3153
								3152	3151	3150		
123	SB	6	m=44	1.0	90.0	9.50e-03		3110	3103	3096	3091	3068
								3047	3041	3038	3013	3008
								2998	2928	2929	2930	2931
								2932	2933	2934	2935	2936
								2937	2938	2939	2940	2941
								2942	2943	2944	2945	2946
								2947	2948	2949	2950	2951
								2952	2953	2954	2955	2956
								2957	2958	2994	3002	3018
								3042	3048	3064	3069	3073
								3097	3114	3149	3148	3147
								3146	3145	3144	3143	3142
								3141	3140	3139	3138	3137
								3136	3135	3134	3133	3132
								3131	3130	3129	3128	3127
								3126	3125	3124	3123	3122
								3121	3120	3119	3118	
124	SB	6	m=44	1.0	90.0	9.50e-03		3115	3098	3089	3070	3065
								3049	3043	3036	3003	2995
								2959	2960	2961	2962	2963
								2964	2965	2966	2967	2968
								2969	2970	2971	2972	2973
								2974	2975	2976	2977	2978
								2979	2980	2981	2982	2983
								2984	2985	2986	2987	2988
								2989	2999	3009	3015	3039
								3044	3050	3066	3071	3092
								3099	3104	3111	3180	3179
								3178	3177	3176	3175	3174
								3173	3172	3171	3170	3169
								3168	3167	3166	3165	3164
								3163	3162	3161	3160	3159
								3158	3157	3156	3155	3154
								3153	3152	3151	3150	

## LEGENDA TABELLA CASI DI CARICO

Il programma consente l'applicazione di diverse tipologie di casi di carico.  
Sono previsti i seguenti 11 tipi di casi di carico:

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

Sono di tipo automatico **A** (ossia non prevedono introduzione dati da parte dell'utente) i seguenti casi di carico: 1-Ggk; 4-Gsk; 5-Qsk; 6-Qnk.

Sono di tipo semi-automatico **SA** (ossia prevedono una minima introduzione dati da parte dell'utente) i seguenti casi di carico:

7-Qtk, in quanto richiede solo il valore della variazione termica;

9-Esk e 10-Edk, in quanto richiedono il valore dell'angolo di ingresso del sisma e l'individuazione dei casi di carico partecipanti alla definizione delle masse.

Sono di tipo non automatico NA ossia prevedono la diretta applicazione di carichi generici agli elementi strutturali (si veda il precedente punto Modellazione delle Azioni) i restanti casi di carico.

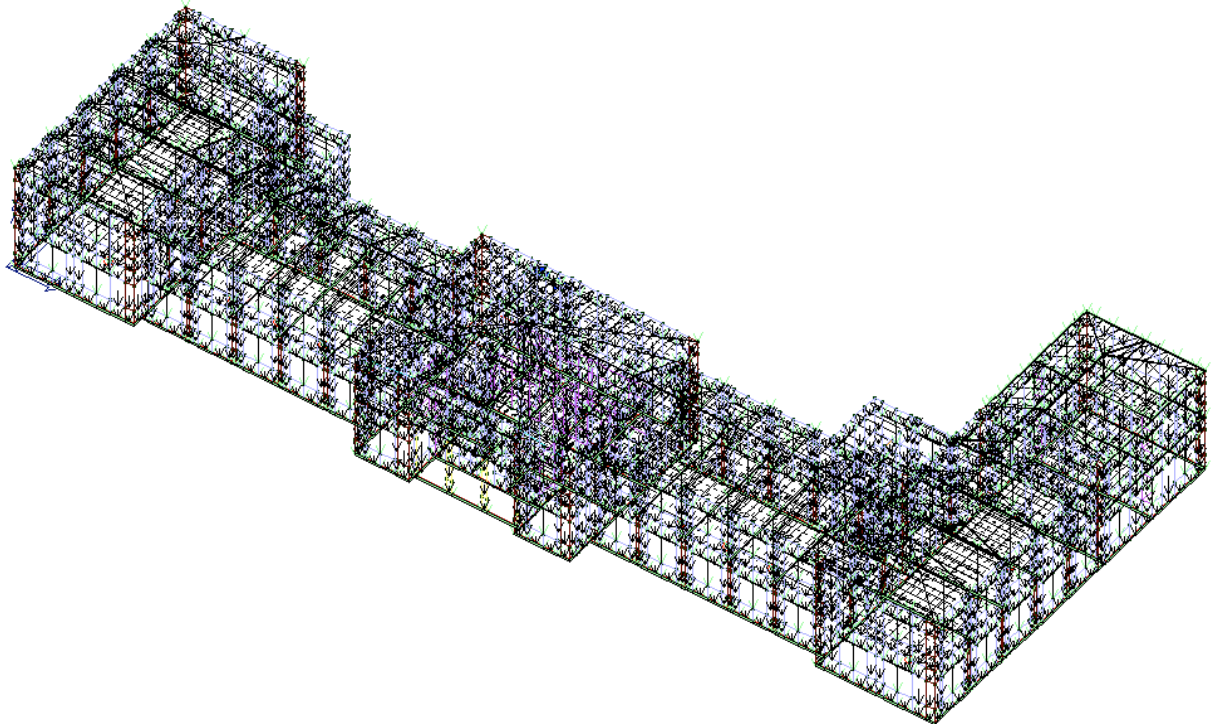
Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso:

*Numero Tipo e Sigla identificativa, Valore di riferimento del caso di carico (se previsto).*

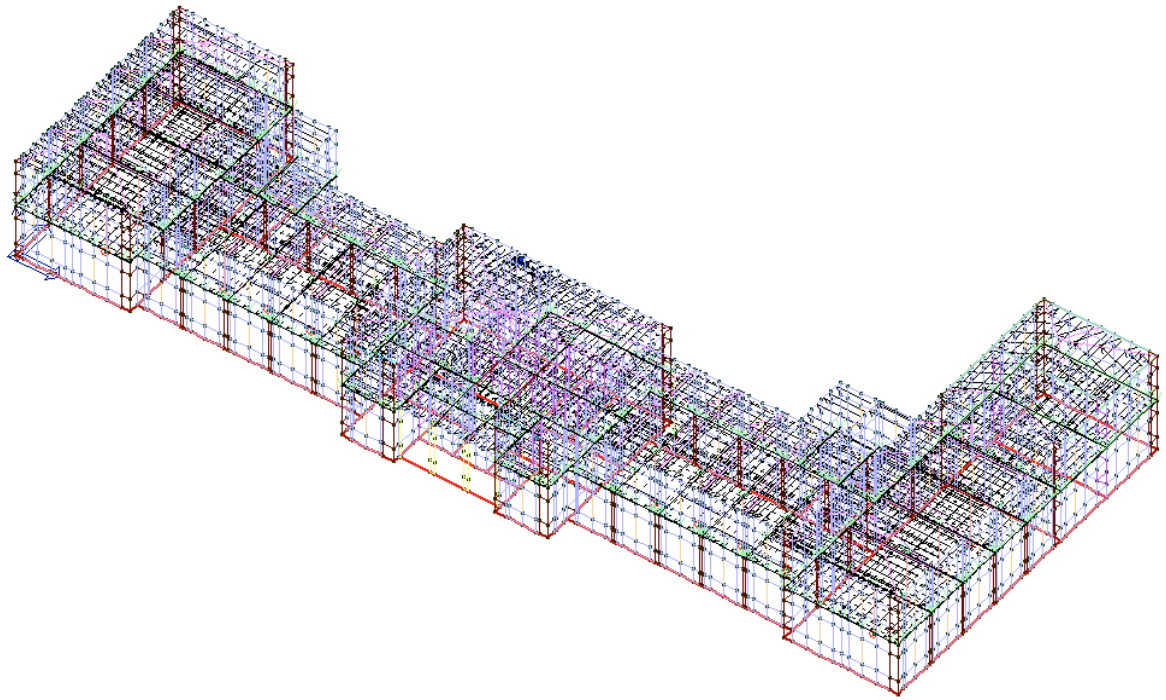
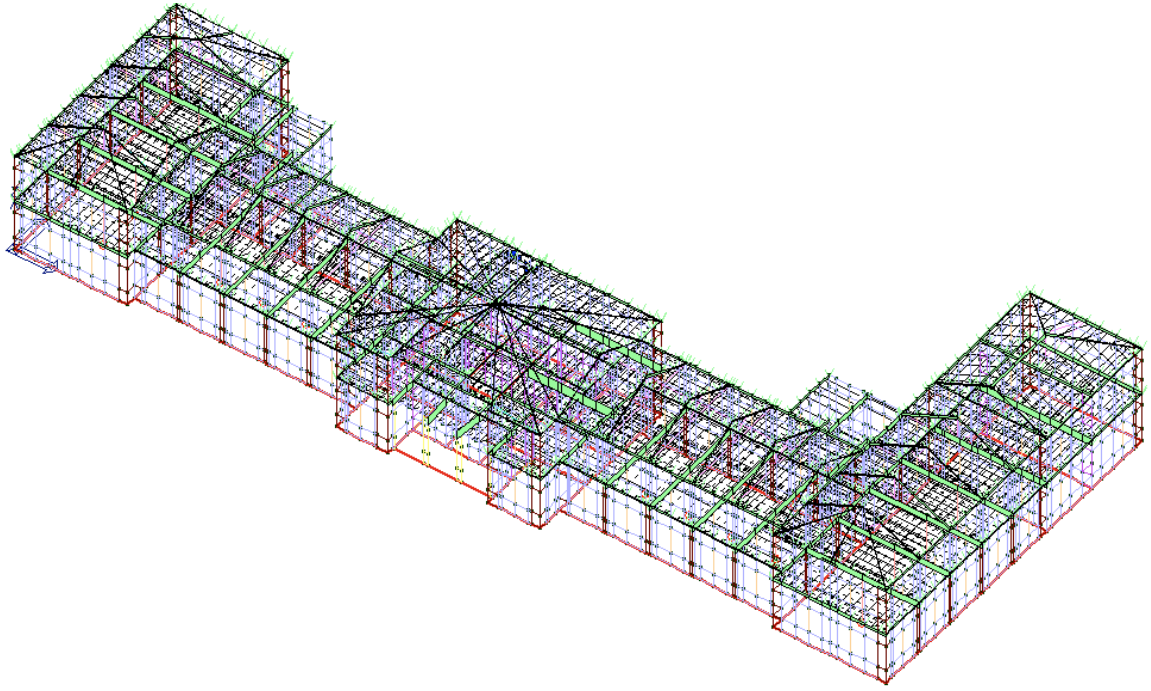
In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

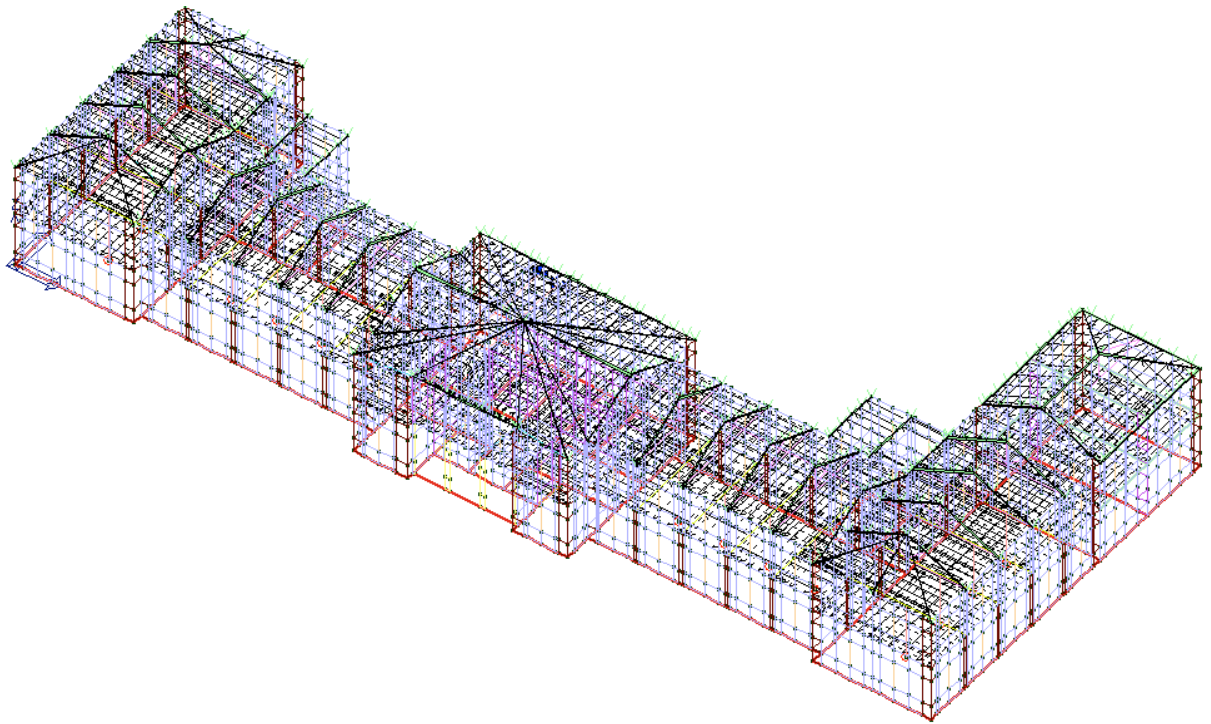
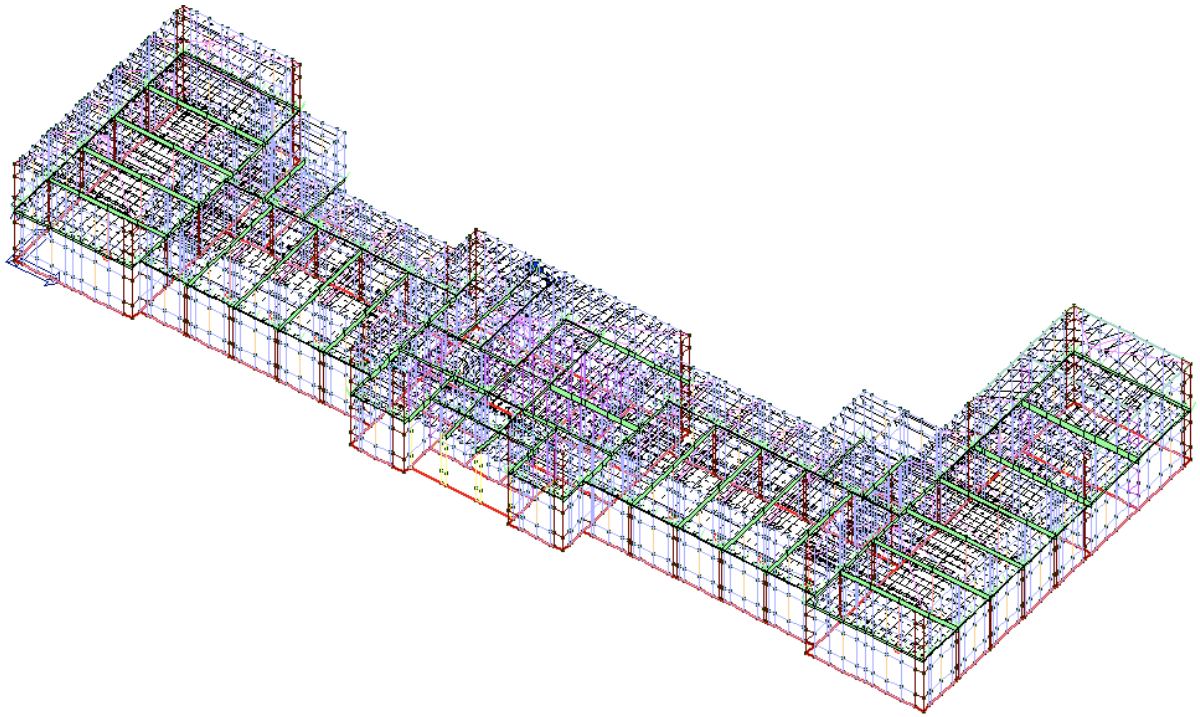
Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione è prevista localmente per ogni elemento solaio o copertura presente nel modello (si confronti il valore Sksol nel capitolo relativo agli elementi solaio) e pertanto la loro partecipazione è di norma pari a uno.

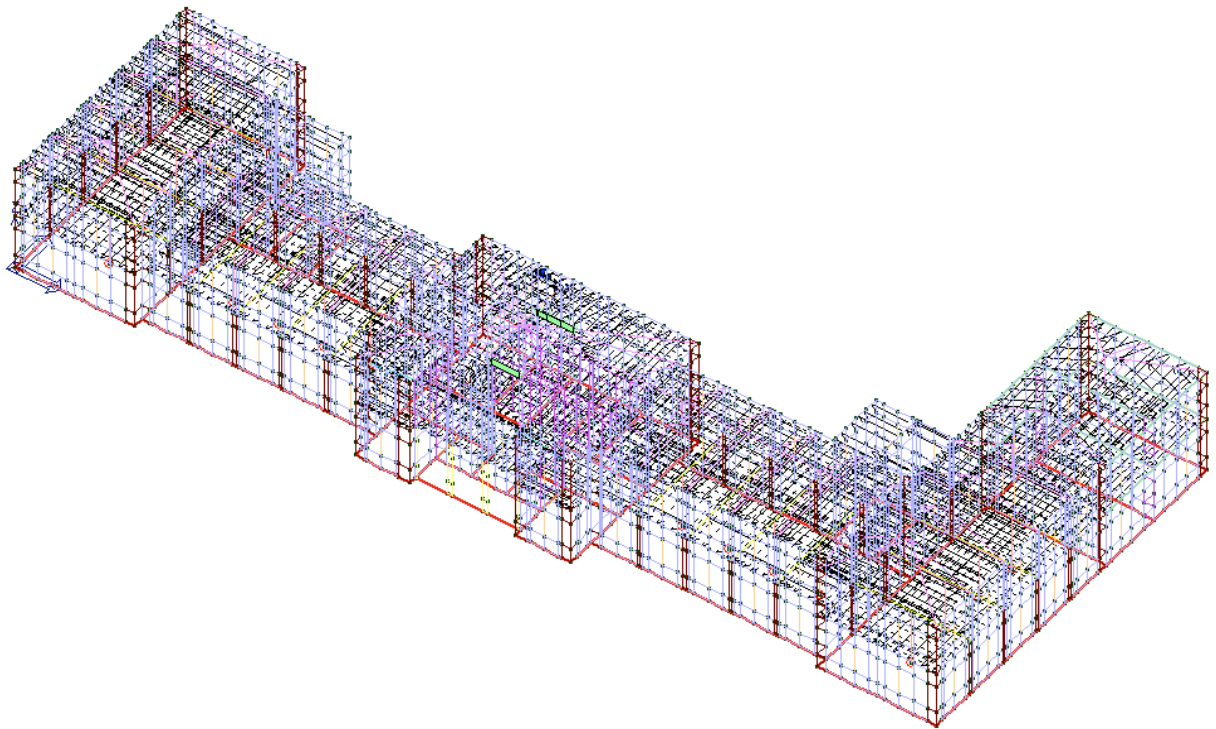
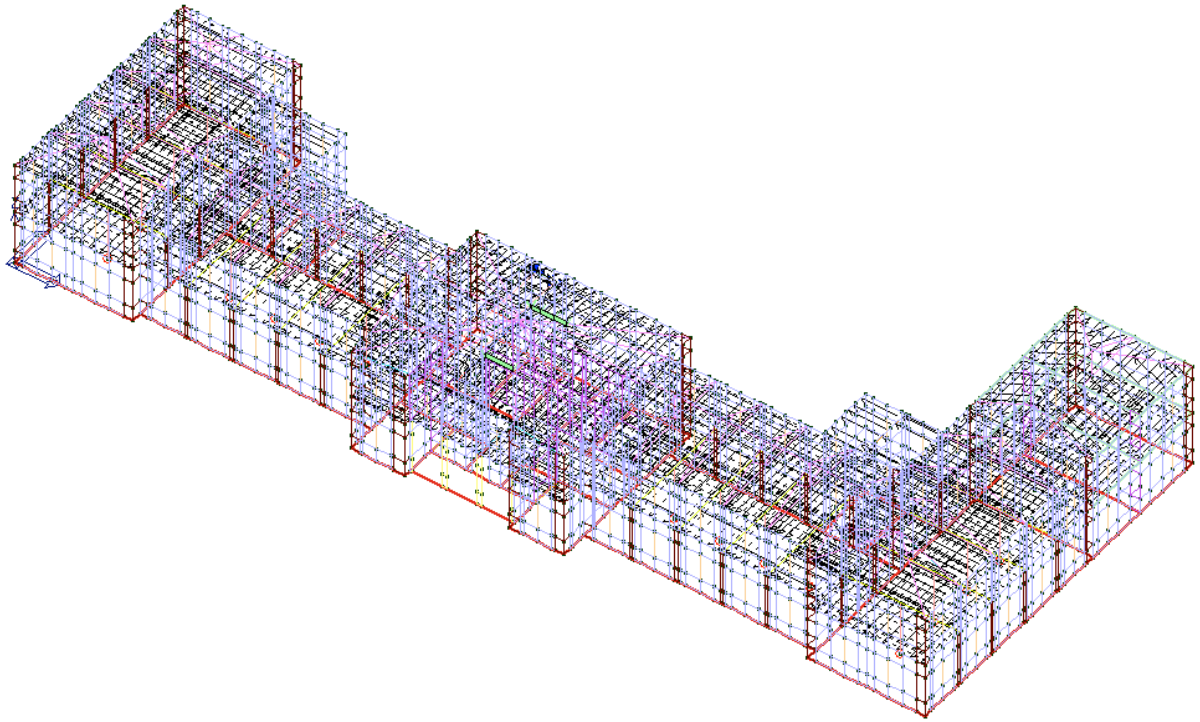
CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2sk (permanente solai-coperture n.c.d.)	
4	Qsk	CDC=Qsk (variabile solai)	
5	Qnk	CDC=Qnk (carico da neve)	
6	Gk	CDC=G2k (permanente generico n.c.d. ) .....	D2 : 93 Azione : DG:Fzi=-10.00 Fzf=-10.00 scala per D2 :da 1294 a 1297 Azione : DG:Fzi=-10.00 Fzf=-10.00 scala per
7	Qk	CDC=Qk (variabile generico) .....	D2 : 93 Azione : DG:Fzi=-13.00 Fzf=-13.00 scala acc D2 :da 1294 a 1297 Azione : DG:Fzi=-13.00 Fzf=-13.00 scala acc











### **LEGENDA TABELLA COMBINAZIONI DI CARICO**

<b>Cmb</b>	<b>Tipo</b>	<b>Sigla Id</b>	<b>effetto P-delta</b>
1	SLE(r)	Comb. SLE(rara) 1	
2	SLE(r)	Comb. SLE(rara) 10	
3	SLE(p)	Comb. SLE(perm.) 4	



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	1.00	1.00	1.00	1.00	0.50	1.00	1.00							
2	1.00	1.00	1.00	0.70	1.00	0.70	0.70							
3	1.00	1.00	1.00	0.0	0.0	1.00	0.0							

## LEGENDA RISULTATI OPERE DI FONDAZIONE

Il controllo dei risultati delle analisi condotte, per quanto concerne le opere di fondazione, è possibile in relazione alle tabelle sottoriportate.

La prima tabella è riferita alle fondazioni tipo palo e plinto su pali.

Per questo tipo di fondazione vengono riportate le sei componenti di sollecitazione (esprese nel riferimento globale della struttura) per ogni palo componente l'opera.

In particolare viene riportato:

<b>Nodo</b>	numero del nodo a cui è applicato il plinto
<b>Tipo</b>	codice corrispondente al nome assegnato al tipo di plinto di fondazione: 3) palo singolo ( <i>PALO</i> ) 4) plinto su palo 5) plinto su due pali ( <i>PL.2P</i> ) 6) plinto su tre pali ( <i>PL.3P</i> ) 7) plinto su quattro pali ( <i>PL.4P</i> ) 8) plinto rettangolare su cinque pali ( <i>PL.5P.R</i> ) 9) plinto pentagonale su cinque pali ( <i>PL.5P</i> ) 10) plinto su sei pali ( <i>PL.6P</i> )
<b>Palo</b>	numero del palo
<b>Comb.</b>	combinazione di carico in cui si verificano le sei componenti di sollecitazione.
<b>Quota</b>	quota assoluta della sezione del palo per cui si riportano le sei componenti di sollecitazione.

L'azione  $F_z$  ( corrispondente allo sforzo normale nel palo) è costante poiché il peso del palo stesso non è considerato nella modellazione.

La seconda tabella è riferita alle fondazioni tipo plinto su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni nei quattro vertici dell'impronta sul terreno.

In particolare viene riportato:

<b>Nodo</b>	numero del nodo a cui è applicato il plinto
<b>Tipo</b>	Codice identificativo del nome assegnato al plinto
<b>area</b>	area dell'impronta del plinto
<b>Wink O Wink V</b>	coefficienti di Winkler (orizzontale e verticale) adottati
<b>Comb</b>	Combinazione di carico in cui si verificano i valori riportati
<b>Pt (P1 P2 P3 P4)</b>	valori di pressione nei vertici

La terza tabella è riferita alle fondazioni tipo platea su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni in ogni vertice (nodo) degli elementi costituenti la platea.

La quarta tabella è riferita alle fondazioni tipo trave su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni alle estremità dell'elemento e la massima (in valore assoluto) pressione lungo lo sviluppo dell'elemento.

Vengono inoltre riportati, con funzione statistica, i valori massimo e minimo delle pressioni che compaiono nella tabella.

Nodo	Tipo	Area	Wink V	Wink O	Cmb	Pt	Pt	Pt	Pt
		m2	daN/cm3	daN/cm3		daN/cm2	daN/cm2	daN/cm2	daN/cm2
150	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.10	-2.09	-2.08	-2.10
					2	-1.97	-1.96	-1.95	-1.97
					3	-1.57	-1.56	-1.55	-1.57
154	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.08	-2.10	-2.10	-2.08
					2	-1.95	-1.97	-1.97	-1.95
					3	-1.55	-1.56	-1.56	-1.55

Nodo	Tipo	Area	Wink V	Wink O	Cmb	Pt	Pt	Pt	Pt	
190	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.09	-2.08	-2.05	-2.06	
						2	-1.96	-1.95	-1.92	-1.93
						3	-1.56	-1.55	-1.53	-1.54
191	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.05	-2.04	-2.00	-2.01	
						2	-1.92	-1.91	-1.87	-1.88
						3	-1.53	-1.52	-1.50	-1.51
192	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.03	-2.02	-2.00	-2.01	
						2	-1.90	-1.89	-1.86	-1.88
						3	-1.51	-1.50	-1.49	-1.50
193	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.02	-2.00	-2.00	-2.01	
						2	-1.88	-1.87	-1.86	-1.88
						3	-1.50	-1.49	-1.48	-1.49
194	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.00	-2.01	-2.00	-1.99	
						2	-1.86	-1.87	-1.87	-1.86
						3	-1.48	-1.48	-1.48	-1.47
195	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.01	-2.02	-2.00	-1.99	
						2	-1.88	-1.89	-1.87	-1.86
						3	-1.49	-1.50	-1.49	-1.48
196	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.03	-2.04	-2.01	-2.00	
						2	-1.90	-1.91	-1.88	-1.87
						3	-1.51	-1.52	-1.50	-1.49
197	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.07	-2.08	-2.05	-2.05	
						2	-1.94	-1.95	-1.93	-1.92
						3	-1.55	-1.55	-1.54	-1.53
231	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.07	-2.05	-2.04	-2.06	
						2	-1.94	-1.92	-1.91	-1.93
						3	-1.55	-1.53	-1.52	-1.54
234	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.06	-2.07	-2.07	-2.05	
						2	-1.92	-1.94	-1.93	-1.92
						3	-1.53	-1.54	-1.54	-1.53
331	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.07	-2.05	-2.04	-2.06	
						2	-1.93	-1.91	-1.90	-1.93
						3	-1.54	-1.52	-1.52	-1.53
332	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.06	-2.08	-2.08	-2.05	
						2	-1.92	-1.94	-1.94	-1.92
						3	-1.53	-1.54	-1.54	-1.53
387	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.03	-2.02	-2.01	-2.02	
						2	-1.91	-1.89	-1.88	-1.90
						3	-1.52	-1.51	-1.51	-1.52
390	PLINTO 95.00 x95.00	0.90	1.00	1.00	1	-2.03	-2.06	-2.06	-2.03	
						2	-1.90	-1.93	-1.93	-1.90
						3	-1.52	-1.54	-1.54	-1.52
<b>Nodo</b>						<b>Pt</b>	<b>Pt</b>	<b>Pt</b>	<b>Pt</b>	
						-2.10				
						-1.47				

Elem.	Cmb	Pt ini daN/cm2	Pt fin daN/cm2	Pt max daN/cm2	Cmb	Pt ini daN/cm2	Pt fin daN/cm2	Pt max daN/cm2	Cmb	Pt ini daN/cm2	Pt fin daN/cm2	Pt max daN/cm2
96	1	-1.49	-1.48	-1.49	2	-1.49	-1.47	-1.49	3	-1.30	-1.29	-1.30
97	1	-1.48	-1.47	-1.48	2	-1.47	-1.46	-1.47	3	-1.29	-1.28	-1.29
98	1	-1.47	-1.44	-1.47	2	-1.46	-1.43	-1.46	3	-1.28	-1.26	-1.28
99	1	-1.44	-1.42	-1.44	2	-1.43	-1.41	-1.43	3	-1.26	-1.24	-1.26
100	1	-1.42	-1.41	-1.42	2	-1.41	-1.40	-1.40	3	-1.24	-1.23	-1.24
101	1	-1.41	-1.39	-1.41	2	-1.40	-1.38	-1.40	3	-1.23	-1.22	-1.23
102	1	-1.33	-1.35	-1.35	2	-1.32	-1.34	-1.34	3	-1.16	-1.18	-1.18
103	1	-1.35	-1.35	-1.35	2	-1.34	-1.34	-1.34	3	-1.18	-1.18	-1.18
104	1	-1.35	-1.38	-1.38	2	-1.34	-1.37	-1.37	3	-1.18	-1.20	-1.20
105	1	-1.38	-1.41	-1.41	2	-1.37	-1.40	-1.40	3	-1.20	-1.23	-1.23
106	1	-1.41	-1.41	-1.41	2	-1.40	-1.41	-1.41	3	-1.23	-1.23	-1.23
107	1	-1.41	-1.43	-1.43	2	-1.41	-1.42	-1.42	3	-1.23	-1.24	-1.24
108	1	-1.39	-1.38	-1.39	2	-1.38	-1.37	-1.38	3	-1.22	-1.21	-1.22
109	1	-1.33	-1.32	-1.33	2	-1.32	-1.31	-1.32	3	-1.16	-1.15	-1.16
110	1	-1.50	-1.50	-1.50	2	-1.49	-1.49	-1.49	3	-1.31	-1.31	-1.31
111	1	-1.44	-1.44	-1.44	2	-1.43	-1.43	-1.43	3	-1.25	-1.25	-1.25
112	1	-1.38	-1.37	-1.38	2	-1.37	-1.36	-1.37	3	-1.21	-1.20	-1.21
113	1	-1.37	-1.28	-1.37	2	-1.36	-1.27	-1.35	3	-1.20	-1.12	-1.20
114	1	-1.28	-1.27	-1.28	2	-1.27	-1.25	-1.26	3	-1.12	-1.11	-1.12
115	1	-1.27	-1.25	-1.26	2	-1.25	-1.23	-1.25	3	-1.11	-1.09	-1.11
116	1	-1.25	-1.25	-1.25	2	-1.23	-1.24	-1.24	3	-1.09	-1.10	-1.10
117	1	-1.25	-1.32	-1.32	2	-1.24	-1.30	-1.30	3	-1.10	-1.15	-1.15
118	1	-1.32	-1.32	-1.32	2	-1.30	-1.31	-1.31	3	-1.15	-1.15	-1.15
119	1	-1.44	-1.44	-1.44	2	-1.43	-1.43	-1.43	3	-1.25	-1.25	-1.25
120	1	-1.50	-1.50	-1.50	2	-1.49	-1.49	-1.49	3	-1.31	-1.31	-1.31
121	1	-1.38	-1.36	-1.38	2	-1.37	-1.34	-1.37	3	-1.21	-1.19	-1.21
122	1	-1.32	-1.30	-1.32	2	-1.31	-1.28	-1.31	3	-1.15	-1.13	-1.15
123	1	-1.44	-1.45	-1.45	2	-1.43	-1.44	-1.44	3	-1.25	-1.25	-1.25

124	1	-1.80	-1.79	-1.80	2	-1.80	-1.79	-1.80	3	-1.56	-1.56	-1.56
125	1	-1.79	-1.79	-1.79	2	-1.79	-1.79	-1.79	3	-1.56	-1.56	-1.56
126	1	-1.79	-1.80	-1.80	2	-1.79	-1.80	-1.80	3	-1.56	-1.56	-1.56
127	1	-1.80	-1.81	-1.81	2	-1.80	-1.81	-1.81	3	-1.56	-1.57	-1.57
128	1	-1.81	-1.81	-1.81	2	-1.81	-1.81	-1.81	3	-1.57	-1.57	-1.57
129	1	-1.81	-1.82	-1.82	2	-1.81	-1.82	-1.82	3	-1.57	-1.57	-1.57
130	1	-1.82	-1.84	-1.84	2	-1.82	-1.84	-1.84	3	-1.57	-1.59	-1.59
131	1	-1.84	-1.86	-1.86	2	-1.84	-1.86	-1.86	3	-1.59	-1.60	-1.60
132	1	-1.86	-1.88	-1.88	2	-1.86	-1.87	-1.87	3	-1.60	-1.61	-1.61
133	1	-1.88	-1.88	-1.88	2	-1.87	-1.88	-1.88	3	-1.61	-1.62	-1.62
134	1	-1.84	-1.83	-1.84	2	-1.84	-1.83	-1.84	3	-1.58	-1.58	-1.58
135	1	-1.83	-1.82	-1.83	2	-1.83	-1.82	-1.83	3	-1.58	-1.56	-1.57
136	1	-1.82	-1.80	-1.82	2	-1.82	-1.80	-1.82	3	-1.56	-1.55	-1.56
137	1	-1.80	-1.79	-1.80	2	-1.80	-1.79	-1.80	3	-1.55	-1.54	-1.55
138	1	-1.79	-1.78	-1.79	2	-1.79	-1.78	-1.79	3	-1.54	-1.54	-1.54
139	1	-1.78	-1.78	-1.78	2	-1.78	-1.78	-1.78	3	-1.54	-1.53	-1.54
140	1	-1.78	-1.77	-1.78	2	-1.78	-1.77	-1.78	3	-1.53	-1.53	-1.53
141	1	-1.77	-1.77	-1.77	2	-1.77	-1.77	-1.77	3	-1.53	-1.53	-1.53
142	1	-1.77	-1.77	-1.77	2	-1.77	-1.77	-1.77	3	-1.53	-1.53	-1.53
143	1	-1.77	-1.77	-1.77	2	-1.77	-1.77	-1.77	3	-1.53	-1.53	-1.53
144	1	-1.80	-1.79	-1.80	2	-1.80	-1.79	-1.79	3	-1.56	-1.55	-1.56
145	1	-1.77	-1.77	-1.77	2	-1.77	-1.77	-1.77	3	-1.53	-1.53	-1.53
146	1	-1.88	-1.87	-1.88	2	-1.88	-1.87	-1.88	3	-1.62	-1.61	-1.62
147	1	-1.84	-1.83	-1.84	2	-1.84	-1.83	-1.84	3	-1.58	-1.58	-1.58
148	1	-1.50	-1.50	-1.50	2	-1.49	-1.49	-1.49	3	-1.31	-1.31	-1.31
149	1	-1.45	-1.45	-1.45	2	-1.44	-1.44	-1.44	3	-1.25	-1.26	-1.26
150	1	-1.79	-1.79	-1.79	2	-1.79	-1.78	-1.79	3	-1.55	-1.55	-1.55
151	1	-1.77	-1.77	-1.77	2	-1.77	-1.77	-1.77	3	-1.53	-1.53	-1.53
152	1	-1.87	-1.86	-1.87	2	-1.87	-1.86	-1.87	3	-1.61	-1.60	-1.61
153	1	-1.86	-1.86	-1.86	2	-1.86	-1.85	-1.86	3	-1.60	-1.60	-1.60
154	1	-1.86	-1.84	-1.86	2	-1.85	-1.84	-1.85	3	-1.60	-1.58	-1.60
155	1	-1.84	-1.83	-1.84	2	-1.84	-1.83	-1.84	3	-1.58	-1.57	-1.58
156	1	-1.83	-1.83	-1.83	2	-1.83	-1.82	-1.83	3	-1.57	-1.57	-1.57
157	1	-1.83	-1.83	-1.83	2	-1.82	-1.82	-1.82	3	-1.57	-1.57	-1.57
158	1	-1.83	-1.82	-1.83	2	-1.82	-1.82	-1.82	3	-1.57	-1.56	-1.57
159	1	-1.82	-1.82	-1.82	2	-1.82	-1.81	-1.82	3	-1.56	-1.56	-1.56
160	1	-1.82	-1.80	-1.82	2	-1.81	-1.80	-1.81	3	-1.56	-1.54	-1.56
161	1	-1.80	-1.79	-1.80	2	-1.80	-1.78	-1.79	3	-1.54	-1.53	-1.54
162	1	-1.79	-1.78	-1.79	2	-1.78	-1.77	-1.78	3	-1.53	-1.53	-1.53
163	1	-1.78	-1.78	-1.78	2	-1.77	-1.77	-1.77	3	-1.53	-1.52	-1.53
164	1	-1.78	-1.77	-1.78	2	-1.77	-1.77	-1.77	3	-1.52	-1.52	-1.52
165	1	-1.77	-1.76	-1.77	2	-1.77	-1.76	-1.77	3	-1.52	-1.51	-1.52
166	1	-1.76	-1.74	-1.76	2	-1.76	-1.74	-1.76	3	-1.51	-1.49	-1.51
167	1	-1.74	-1.72	-1.74	2	-1.74	-1.71	-1.73	3	-1.49	-1.48	-1.49
168	1	-1.72	-1.71	-1.72	2	-1.71	-1.71	-1.71	3	-1.48	-1.47	-1.48
169	1	-1.71	-1.71	-1.71	2	-1.71	-1.70	-1.71	3	-1.47	-1.47	-1.47
170	1	-1.71	-1.70	-1.71	2	-1.70	-1.70	-1.70	3	-1.47	-1.46	-1.47
171	1	-1.70	-1.69	-1.70	2	-1.70	-1.68	-1.69	3	-1.46	-1.45	-1.46
172	1	-1.69	-1.66	-1.69	2	-1.68	-1.65	-1.68	3	-1.45	-1.43	-1.45
173	1	-1.66	-1.63	-1.66	2	-1.65	-1.62	-1.65	3	-1.43	-1.41	-1.43
174	1	-1.63	-1.62	-1.63	2	-1.62	-1.61	-1.62	3	-1.41	-1.40	-1.41
175	1	-1.62	-1.61	-1.62	2	-1.61	-1.61	-1.61	3	-1.40	-1.39	-1.40
176	1	-1.61	-1.61	-1.61	2	-1.61	-1.60	-1.61	3	-1.39	-1.39	-1.39
177	1	-1.61	-1.59	-1.61	2	-1.60	-1.59	-1.60	3	-1.39	-1.38	-1.39
178	1	-1.59	-1.56	-1.59	2	-1.59	-1.55	-1.58	3	-1.38	-1.35	-1.38
179	1	-1.56	-1.52	-1.55	2	-1.55	-1.51	-1.54	3	-1.35	-1.32	-1.35
180	1	-1.52	-1.51	-1.52	2	-1.51	-1.50	-1.51	3	-1.32	-1.32	-1.32
181	1	-1.51	-1.50	-1.51	2	-1.50	-1.49	-1.50	3	-1.32	-1.31	-1.32
182	1	-1.44	-1.46	-1.46	2	-1.43	-1.45	-1.45	3	-1.25	-1.27	-1.27
183	1	-1.46	-1.47	-1.47	2	-1.45	-1.46	-1.46	3	-1.27	-1.27	-1.27
184	1	-1.47	-1.51	-1.51	2	-1.46	-1.50	-1.50	3	-1.27	-1.30	-1.30
185	1	-1.51	-1.55	-1.55	2	-1.50	-1.54	-1.54	3	-1.30	-1.33	-1.33
186	1	-1.55	-1.56	-1.56	2	-1.54	-1.55	-1.55	3	-1.33	-1.34	-1.34
187	1	-1.56	-1.57	-1.57	2	-1.55	-1.56	-1.56	3	-1.34	-1.35	-1.35
188	1	-1.57	-1.58	-1.58	2	-1.56	-1.57	-1.57	3	-1.35	-1.35	-1.35
189	1	-1.58	-1.59	-1.59	2	-1.57	-1.58	-1.58	3	-1.35	-1.36	-1.36
190	1	-1.59	-1.62	-1.62	2	-1.58	-1.61	-1.61	3	-1.36	-1.39	-1.39
191	1	-1.62	-1.65	-1.65	2	-1.61	-1.65	-1.65	3	-1.39	-1.41	-1.41
192	1	-1.65	-1.66	-1.66	2	-1.65	-1.66	-1.66	3	-1.41	-1.42	-1.42
193	1	-1.66	-1.67	-1.67	2	-1.66	-1.66	-1.66	3	-1.42	-1.43	-1.43
194	1	-1.67	-1.67	-1.67	2	-1.66	-1.67	-1.67	3	-1.43	-1.43	-1.43
195	1	-1.67	-1.68	-1.68	2	-1.67	-1.68	-1.68	3	-1.43	-1.44	-1.44
196	1	-1.68	-1.71	-1.71	2	-1.68	-1.70	-1.70	3	-1.44	-1.46	-1.46
197	1	-1.71	-1.73	-1.73	2	-1.70	-1.72	-1.72	3	-1.46	-1.48	-1.48
198	1	-1.73	-1.74	-1.74	2	-1.72	-1.73	-1.73	3	-1.48	-1.49	-1.49
199	1	-1.74	-1.74	-1.74	2	-1.73	-1.74	-1.74	3	-1.49	-1.49	-1.49
200	1	-1.74	-1.75	-1.75	2	-1.74	-1.74	-1.74	3	-1.49	-1.49	-1.49
201	1	-1.75	-1.75	-1.75	2	-1.74	-1.75	-1.75	3	-1.49	-1.50	-1.50
202	1	-1.75	-1.77	-1.77	2	-1.75	-1.76	-1.76	3	-1.50	-1.51	-1.51
203	1	-1.77	-1.78	-1.78	2	-1.76	-1.78	-1.78	3	-1.51	-1.52	-1.52
204	1	-1.78	-1.79	-1.79	2	-1.78	-1.79	-1.79	3	-1.52	-1.53	-1.53
205	1	-1.79	-1.79	-1.79	2	-1.79	-1.79	-1.79	3	-1.53	-1.53	-1.53
206	1	-1.79	-1.80	-1.80	2	-1.79	-1.79	-1.79	3	-1.53	-1.54	-1.54
207	1	-1.80	-1.80	-1.80	2	-1.79	-1.80	-1.80	3	-1.54	-1.54	-1.54
208	1	-1.80	-1.81	-1.81	2	-1.80	-1.81	-1.81	3	-1.54	-1.55	-1.55
209	1	-1.81	-1.82	-1.82	2	-1.81	-1.82	-1.82	3	-1.55	-1.56	-1.56
210	1	-1.82	-1.83	-1.83	2	-1.82	-1.82	-1.82	3	-1.56	-1.57	-1.57
211	1	-1.83	-1.83	-1.83	2	-1.82	-1.83	-1.83	3	-1.57	-1.57	-1.57

212	1	-1.36	-1.36	-1.36	2	-1.34	-1.34	-1.34	3	-1.19	-1.19	-1.19
213	1	-1.30	-1.29	-1.30	2	-1.28	-1.27	-1.28	3	-1.13	-1.12	-1.13
214	1	-1.35	-1.33	-1.35	2	-1.33	-1.31	-1.33	3	-1.18	-1.16	-1.18
215	1	-1.33	-1.31	-1.33	2	-1.31	-1.29	-1.31	3	-1.16	-1.14	-1.16
216	1	-1.31	-1.29	-1.31	2	-1.29	-1.27	-1.31	3	-1.14	-1.12	-1.14
217	1	-1.29	-1.28	-1.29	2	-1.27	-1.26	-1.27	3	-1.12	-1.11	-1.12
218	1	-1.28	-1.27	-1.28	2	-1.26	-1.24	-1.25	3	-1.11	-1.10	-1.11
219	1	-1.27	-1.27	-1.27	2	-1.24	-1.25	-1.25	3	-1.10	-1.10	-1.10
220	1	-1.27	-1.28	-1.28	2	-1.25	-1.25	-1.25	3	-1.10	-1.11	-1.11
221	1	-1.28	-1.28	-1.28	2	-1.25	-1.26	-1.26	3	-1.11	-1.11	-1.11
222	1	-1.28	-1.29	-1.29	2	-1.26	-1.27	-1.27	3	-1.11	-1.12	-1.12
223	1	-1.50	-1.50	-1.50	2	-1.49	-1.49	-1.49	3	-1.31	-1.31	-1.31
224	1	-1.45	-1.45	-1.45	2	-1.44	-1.44	-1.44	3	-1.26	-1.26	-1.26
225	1	-1.79	-1.78	-1.79	2	-1.78	-1.77	-1.78	3	-1.55	-1.54	-1.55
226	1	-1.77	-1.76	-1.77	2	-1.77	-1.76	-1.77	3	-1.53	-1.52	-1.53
227	1	-1.87	-1.85	-1.87	2	-1.87	-1.85	-1.86	3	-1.61	-1.60	-1.61
228	1	-1.83	-1.83	-1.83	2	-1.83	-1.83	-1.83	3	-1.58	-1.57	-1.57
229	1	-1.30	-1.29	-1.30	2	-1.27	-1.27	-1.27	3	-1.13	-1.13	-1.13
230	1	-1.27	-1.28	-1.28	2	-1.25	-1.25	-1.25	3	-1.10	-1.11	-1.11
231	1	-1.36	-1.35	-1.36	2	-1.33	-1.32	-1.33	3	-1.18	-1.17	-1.18
232	1	-1.29	-1.29	-1.29	2	-1.27	-1.27	-1.27	3	-1.12	-1.12	-1.12
233	1	-1.50	-1.50	-1.50	2	-1.49	-1.49	-1.49	3	-1.31	-1.31	-1.31
234	1	-1.45	-1.45	-1.45	2	-1.44	-1.44	-1.44	3	-1.26	-1.26	-1.26
235	1	-1.78	-1.77	-1.78	2	-1.77	-1.77	-1.77	3	-1.54	-1.54	-1.54
236	1	-1.76	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
237	1	-1.85	-1.83	-1.85	2	-1.85	-1.83	-1.85	3	-1.60	-1.58	-1.60
238	1	-1.83	-1.82	-1.83	2	-1.83	-1.82	-1.83	3	-1.57	-1.56	-1.57
239	1	-1.29	-1.29	-1.29	2	-1.27	-1.26	-1.27	3	-1.13	-1.12	-1.13
240	1	-1.28	-1.29	-1.29	2	-1.25	-1.26	-1.26	3	-1.11	-1.11	-1.11
241	1	-1.35	-1.34	-1.35	2	-1.32	-1.32	-1.32	3	-1.17	-1.17	-1.17
242	1	-1.77	-1.77	-1.77	2	-1.77	-1.77	-1.77	3	-1.54	-1.54	-1.54
243	1	-1.29	-1.31	-1.31	2	-1.27	-1.29	-1.29	3	-1.12	-1.13	-1.13
244	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
245	1	-1.50	-1.49	-1.50	2	-1.49	-1.48	-1.49	3	-1.31	-1.30	-1.31
246	1	-1.45	-1.44	-1.45	2	-1.44	-1.43	-1.44	3	-1.26	-1.25	-1.26
247	1	-1.29	-1.29	-1.29	2	-1.26	-1.26	-1.26	3	-1.12	-1.12	-1.12
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249	1	-1.77	-1.77	-1.77	2	-1.77	-1.77	-1.77	3	-1.54	-1.53	-1.53
250	1	-1.83	-1.83	-1.83	2	-1.83	-1.83	-1.83	3	-1.58	-1.58	-1.58
251	1	-1.82	-1.82	-1.82	2	-1.82	-1.81	-1.82	3	-1.56	-1.56	-1.56
252	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
253	1	-1.31	-1.32	-1.32	2	-1.29	-1.29	-1.29	3	-1.13	-1.14	-1.14
254	1	-1.29	-1.29	-1.29	2	-1.26	-1.26	-1.26	3	-1.12	-1.12	-1.12
255	1	-1.77	-1.77	-1.77	2	-1.77	-1.77	-1.77	3	-1.53	-1.53	-1.53
256	1	-1.83	-1.82	-1.83	2	-1.83	-1.82	-1.83	3	-1.58	-1.57	-1.58
257	1	-1.82	-1.81	-1.82	2	-1.81	-1.81	-1.81	3	-1.56	-1.56	-1.56
258	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
259	1	-1.49	-1.46	-1.49	2	-1.47	-1.45	-1.47	3	-1.30	-1.28	-1.30
260	1	-1.46	-1.44	-1.46	2	-1.45	-1.42	-1.45	3	-1.28	-1.25	-1.28
261	1	-1.44	-1.39	-1.43	2	-1.42	-1.37	-1.42	3	-1.25	-1.21	-1.25
262	1	-1.39	-1.37	-1.39	2	-1.37	-1.34	-1.37	3	-1.21	-1.19	-1.21
263	1	-1.37	-1.34	-1.37	2	-1.34	-1.32	-1.34	3	-1.19	-1.17	-1.19
264	1	-1.34	-1.33	-1.34	2	-1.32	-1.31	-1.31	3	-1.17	-1.16	-1.17
265	1	-1.33	-1.32	-1.33	2	-1.31	-1.29	-1.31	3	-1.16	-1.15	-1.16
266	1	-1.32	-1.30	-1.32	2	-1.29	-1.27	-1.29	3	-1.15	-1.13	-1.15
267	1	-1.30	-1.29	-1.30	2	-1.27	-1.26	-1.27	3	-1.13	-1.12	-1.13
268	1	-1.29	-1.29	-1.29	2	-1.26	-1.26	-1.26	3	-1.12	-1.12	-1.12
270	1	-1.29	-1.29	-1.29	2	-1.26	-1.27	-1.27	3	-1.12	-1.12	-1.12
271	1	-1.29	-1.30	-1.30	2	-1.27	-1.28	-1.28	3	-1.12	-1.13	-1.13
272	1	-1.30	-1.32	-1.32	2	-1.28	-1.29	-1.29	3	-1.13	-1.14	-1.14
273	1	-1.32	-1.34	-1.34	2	-1.29	-1.32	-1.32	3	-1.14	-1.16	-1.16
274	1	-1.34	-1.36	-1.36	2	-1.32	-1.34	-1.34	3	-1.16	-1.18	-1.18
275	1	-1.36	-1.40	-1.40	2	-1.34	-1.38	-1.38	3	-1.18	-1.21	-1.21
276	1	-1.40	-1.42	-1.42	2	-1.38	-1.41	-1.41	3	-1.21	-1.23	-1.23
277	1	-1.42	-1.44	-1.44	2	-1.41	-1.43	-1.43	3	-1.23	-1.25	-1.25
278	1	-1.49	-1.49	-1.49	2	-1.48	-1.47	-1.48	3	-1.30	-1.30	-1.30
279	1	-1.44	-1.44	-1.44	2	-1.43	-1.43	-1.43	3	-1.25	-1.25	-1.25
280	1	-1.82	-1.82	-1.82	2	-1.82	-1.81	-1.82	3	-1.57	-1.57	-1.57
281	1	-1.81	-1.81	-1.81	2	-1.81	-1.80	-1.81	3	-1.56	-1.55	-1.56
282	1	-1.77	-1.77	-1.77	2	-1.77	-1.76	-1.77	3	-1.53	-1.53	-1.53
283	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
284	1	-1.82	-1.80	-1.82	2	-1.81	-1.80	-1.81	3	-1.57	-1.55	-1.57
285	1	-1.49	-1.47	-1.49	2	-1.47	-1.46	-1.47	3	-1.30	-1.29	-1.30
286	1	-1.44	-1.44	-1.44	2	-1.43	-1.43	-1.43	3	-1.25	-1.25	-1.25
287	1	-1.81	-1.79	-1.81	2	-1.80	-1.79	-1.80	3	-1.55	-1.54	-1.55
288	1	-1.77	-1.76	-1.77	2	-1.76	-1.76	-1.76	3	-1.53	-1.52	-1.53
289	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
290	1	-1.80	-1.80	-1.80	2	-1.80	-1.80	-1.80	3	-1.55	-1.55	-1.55
291	1	-1.47	-1.48	-1.48	2	-1.46	-1.46	-1.46	3	-1.29	-1.29	-1.29
292	1	-1.44	-1.44	-1.44	2	-1.43	-1.43	-1.43	3	-1.25	-1.25	-1.25
293	1	-1.79	-1.79	-1.79	2	-1.79	-1.79	-1.79	3	-1.54	-1.54	-1.54
294	1	-1.76	-1.76	-1.76	2	-1.76	-1.75	-1.76	3	-1.52	-1.52	-1.52
295	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
296	1	-1.80	-1.81	-1.81	2	-1.80	-1.81	-1.81	3	-1.55	-1.56	-1.56
297	1	-1.48	-1.49	-1.49	2	-1.46	-1.47	-1.47	3	-1.29	-1.30	-1.30
298	1	-1.44	-1.47	-1.47	2	-1.43	-1.45	-1.45	3	-1.25	-1.27	-1.27
299	1	-1.79	-1.81	-1.81	2	-1.79	-1.80	-1.80	3	-1.54	-1.55	-1.55
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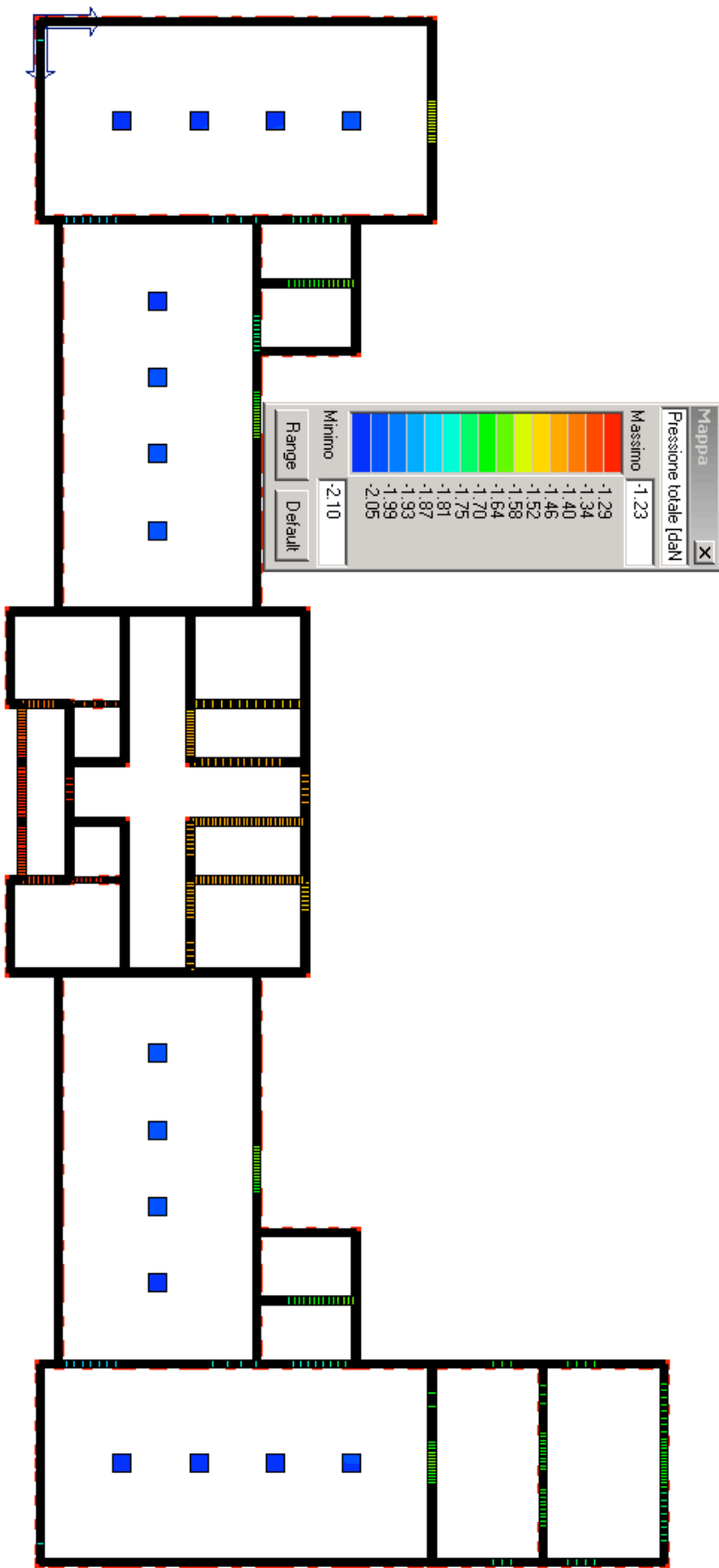
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302	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.52	-1.52	-1.52
303	1	-1.81	-1.82	-1.82	2	-1.81	-1.81	-1.81	3	-1.56	-1.57	-1.57
304	1	-1.81	-1.81	-1.81	2	-1.80	-1.81	-1.81	3	-1.55	-1.56	-1.56
305	1	-1.77	-1.77	-1.77	2	-1.76	-1.77	-1.77	3	-1.52	-1.52	-1.52
306	1	-1.49	-1.49	-1.49	2	-1.48	-1.47	-1.48	3	-1.31	-1.30	-1.30
307	1	-1.49	-1.49	-1.49	2	-1.47	-1.47	-1.47	3	-1.30	-1.30	-1.30
308	1	-1.49	-1.49	-1.49	2	-1.47	-1.46	-1.47	3	-1.30	-1.30	-1.30
309	1	-1.49	-1.49	-1.49	2	-1.46	-1.46	-1.46	3	-1.30	-1.30	-1.30
310	1	-1.49	-1.48	-1.49	2	-1.46	-1.45	-1.46	3	-1.30	-1.29	-1.30
311	1	-1.48	-1.47	-1.48	2	-1.45	-1.45	-1.45	3	-1.29	-1.28	-1.29
312	1	-1.47	-1.43	-1.47	2	-1.45	-1.40	-1.44	3	-1.28	-1.24	-1.28
313	1	-1.43	-1.44	-1.44	2	-1.40	-1.40	-1.40	3	-1.24	-1.24	-1.24
315	1	-1.41	-1.42	-1.42	2	-1.38	-1.39	-1.39	3	-1.22	-1.23	-1.23
316	1	-1.42	-1.43	-1.43	2	-1.39	-1.40	-1.40	3	-1.23	-1.24	-1.24
317	1	-1.43	-1.43	-1.43	2	-1.40	-1.40	-1.40	3	-1.24	-1.24	-1.24
318	1	-1.43	-1.44	-1.44	2	-1.40	-1.42	-1.42	3	-1.24	-1.25	-1.25
319	1	-1.44	-1.45	-1.45	2	-1.42	-1.43	-1.43	3	-1.25	-1.26	-1.26
320	1	-1.45	-1.47	-1.47	2	-1.43	-1.46	-1.46	3	-1.26	-1.28	-1.28
321	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.52	-1.52	-1.52
322	1	-1.82	-1.82	-1.82	2	-1.81	-1.81	-1.81	3	-1.57	-1.57	-1.57
323	1	-1.81	-1.82	-1.82	2	-1.81	-1.81	-1.81	3	-1.56	-1.56	-1.56
324	1	-1.77	-1.77	-1.77	2	-1.77	-1.77	-1.77	3	-1.52	-1.52	-1.52
325	1	-1.76	-1.75	-1.76	2	-1.75	-1.75	-1.75	3	-1.52	-1.51	-1.51
326	1	-1.82	-1.82	-1.82	2	-1.81	-1.81	-1.81	3	-1.57	-1.57	-1.57
327	1	-1.82	-1.82	-1.82	2	-1.81	-1.81	-1.81	3	-1.56	-1.56	-1.56
328	1	-1.77	-1.77	-1.77	2	-1.77	-1.76	-1.77	3	-1.52	-1.52	-1.52
329	1	-1.49	-1.50	-1.50	2	-1.47	-1.49	-1.49	3	-1.30	-1.31	-1.31
330	1	-1.47	-1.49	-1.49	2	-1.46	-1.47	-1.47	3	-1.28	-1.29	-1.29
331	1	-1.48	-1.49	-1.49	2	-1.46	-1.46	-1.46	3	-1.29	-1.30	-1.30
332	1	-1.44	-1.44	-1.44	2	-1.40	-1.41	-1.41	3	-1.24	-1.25	-1.25
333	1	-1.75	-1.75	-1.75	2	-1.75	-1.74	-1.75	3	-1.51	-1.51	-1.51
334	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
335	1	-1.41	-1.42	-1.42	2	-1.38	-1.39	-1.39	3	-1.22	-1.24	-1.24
336	1	-1.43	-1.44	-1.44	2	-1.40	-1.41	-1.41	3	-1.24	-1.25	-1.25
337	1	-1.82	-1.81	-1.82	2	-1.81	-1.80	-1.81	3	-1.57	-1.56	-1.57
338	1	-1.82	-1.80	-1.82	2	-1.81	-1.79	-1.81	3	-1.56	-1.54	-1.56
339	1	-1.50	-1.51	-1.51	2	-1.49	-1.49	-1.49	3	-1.31	-1.32	-1.32
340	1	-1.49	-1.50	-1.50	2	-1.47	-1.49	-1.49	3	-1.29	-1.30	-1.30
341	1	-1.75	-1.74	-1.75	2	-1.74	-1.73	-1.74	3	-1.51	-1.50	-1.51
342	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
343	1	-1.49	-1.48	-1.49	2	-1.46	-1.46	-1.46	3	-1.30	-1.29	-1.30
344	1	-1.44	-1.45	-1.45	2	-1.41	-1.41	-1.41	3	-1.25	-1.26	-1.26
345	1	-1.81	-1.78	-1.80	2	-1.80	-1.77	-1.80	3	-1.56	-1.54	-1.56
346	1	-1.80	-1.78	-1.80	2	-1.79	-1.77	-1.79	3	-1.54	-1.53	-1.54
347	1	-1.51	-1.51	-1.51	2	-1.49	-1.49	-1.49	3	-1.32	-1.32	-1.32
348	1	-1.50	-1.50	-1.50	2	-1.49	-1.49	-1.49	3	-1.30	-1.31	-1.31
349	1	-1.42	-1.43	-1.43	2	-1.39	-1.41	-1.41	3	-1.24	-1.25	-1.25
350	1	-1.44	-1.45	-1.45	2	-1.41	-1.43	-1.43	3	-1.25	-1.27	-1.27
351	1	-1.74	-1.73	-1.74	2	-1.73	-1.73	-1.73	3	-1.50	-1.50	-1.50
352	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
353	1	-1.78	-1.77	-1.78	2	-1.78	-1.77	-1.77	3	-1.54	-1.53	-1.54
354	1	-1.77	-1.77	-1.77	2	-1.77	-1.76	-1.76	3	-1.53	-1.53	-1.53
355	1	-1.77	-1.76	-1.77	2	-1.76	-1.75	-1.76	3	-1.53	-1.52	-1.52
356	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.52	-1.52	-1.52
357	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.52	-1.52	-1.52
358	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.52	-1.52	-1.52
359	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.52	-1.52	-1.52
360	1	-1.76	-1.75	-1.76	2	-1.75	-1.74	-1.75	3	-1.52	-1.51	-1.52
361	1	-1.75	-1.72	-1.75	2	-1.74	-1.71	-1.74	3	-1.51	-1.49	-1.51
362	1	-1.72	-1.71	-1.72	2	-1.71	-1.71	-1.71	3	-1.49	-1.48	-1.49
363	1	-1.71	-1.70	-1.71	2	-1.71	-1.69	-1.70	3	-1.48	-1.47	-1.48
364	1	-1.70	-1.70	-1.70	2	-1.69	-1.69	-1.69	3	-1.47	-1.47	-1.47
365	1	-1.70	-1.69	-1.70	2	-1.69	-1.68	-1.69	3	-1.47	-1.46	-1.47
366	1	-1.69	-1.67	-1.69	2	-1.68	-1.66	-1.68	3	-1.46	-1.45	-1.46
367	1	-1.67	-1.64	-1.66	2	-1.66	-1.63	-1.65	3	-1.45	-1.42	-1.44
368	1	-1.64	-1.64	-1.64	2	-1.63	-1.63	-1.63	3	-1.42	-1.42	-1.42
369	1	-1.64	-1.64	-1.64	2	-1.63	-1.63	-1.63	3	-1.42	-1.42	-1.42
370	1	-1.64	-1.64	-1.64	2	-1.63	-1.63	-1.63	3	-1.42	-1.42	-1.42
371	1	-1.64	-1.64	-1.64	2	-1.63	-1.63	-1.63	3	-1.42	-1.42	-1.42
372	1	-1.64	-1.63	-1.64	2	-1.63	-1.61	-1.63	3	-1.42	-1.41	-1.42
373	1	-1.63	-1.61	-1.63	2	-1.61	-1.60	-1.61	3	-1.41	-1.40	-1.41
374	1	-1.61	-1.60	-1.61	2	-1.60	-1.59	-1.59	3	-1.40	-1.39	-1.39
375	1	-1.60	-1.60	-1.60	2	-1.59	-1.58	-1.59	3	-1.39	-1.39	-1.39
376	1	-1.60	-1.59	-1.60	2	-1.58	-1.58	-1.58	3	-1.39	-1.38	-1.39
377	1	-1.59	-1.58	-1.59	2	-1.58	-1.57	-1.58	3	-1.38	-1.37	-1.38
378	1	-1.58	-1.56	-1.58	2	-1.57	-1.54	-1.57	3	-1.37	-1.35	-1.37
379	1	-1.56	-1.53	-1.55	2	-1.54	-1.51	-1.54	3	-1.35	-1.33	-1.35
380	1	-1.53	-1.52	-1.53	2	-1.51	-1.50	-1.51	3	-1.33	-1.33	-1.33
381	1	-1.52	-1.51	-1.52	2	-1.50	-1.49	-1.50	3	-1.33	-1.32	-1.33
382	1	-1.50	-1.52	-1.52	2	-1.49	-1.50	-1.50	3	-1.31	-1.32	-1.32
383	1	-1.52	-1.52	-1.52	2	-1.50	-1.51	-1.51	3	-1.32	-1.32	-1.32
384	1	-1.52	-1.55	-1.55	2	-1.51	-1.54	-1.54	3	-1.32	-1.34	-1.34
385	1	-1.55	-1.58	-1.58	2	-1.54	-1.57	-1.57	3	-1.34	-1.37	-1.37
386	1	-1.58	-1.59	-1.59	2	-1.57	-1.58	-1.58	3	-1.37	-1.37	-1.37
387	1	-1.59	-1.59	-1.59	2	-1.58	-1.58	-1.58	3	-1.37	-1.38	-1.38
388	1	-1.59	-1.60	-1.60	2	-1.58	-1.59	-1.59	3	-1.38	-1.38	-1.38
389	1	-1.60	-1.60	-1.60	2	-1.59	-1.59	-1.59	3	-1.38	-1.39	-1.39

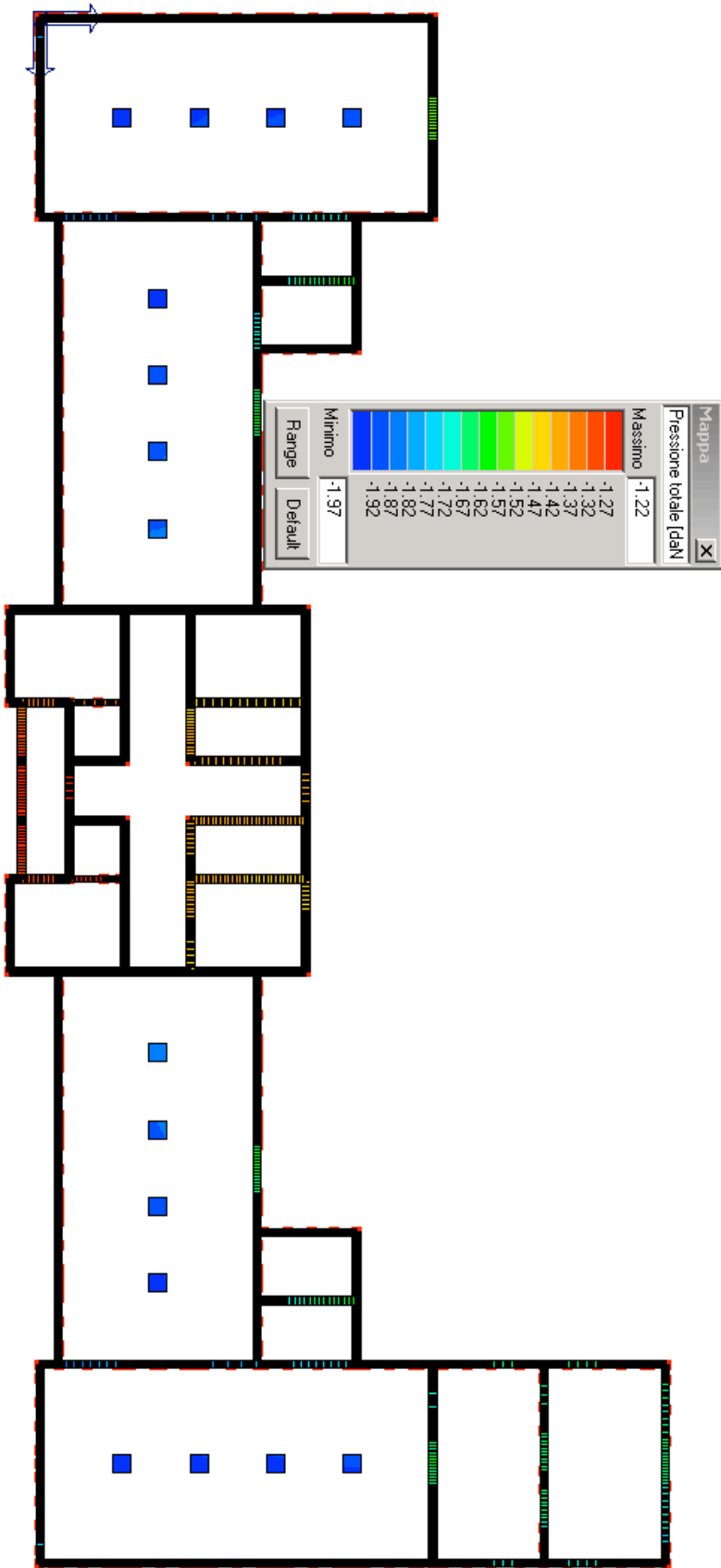


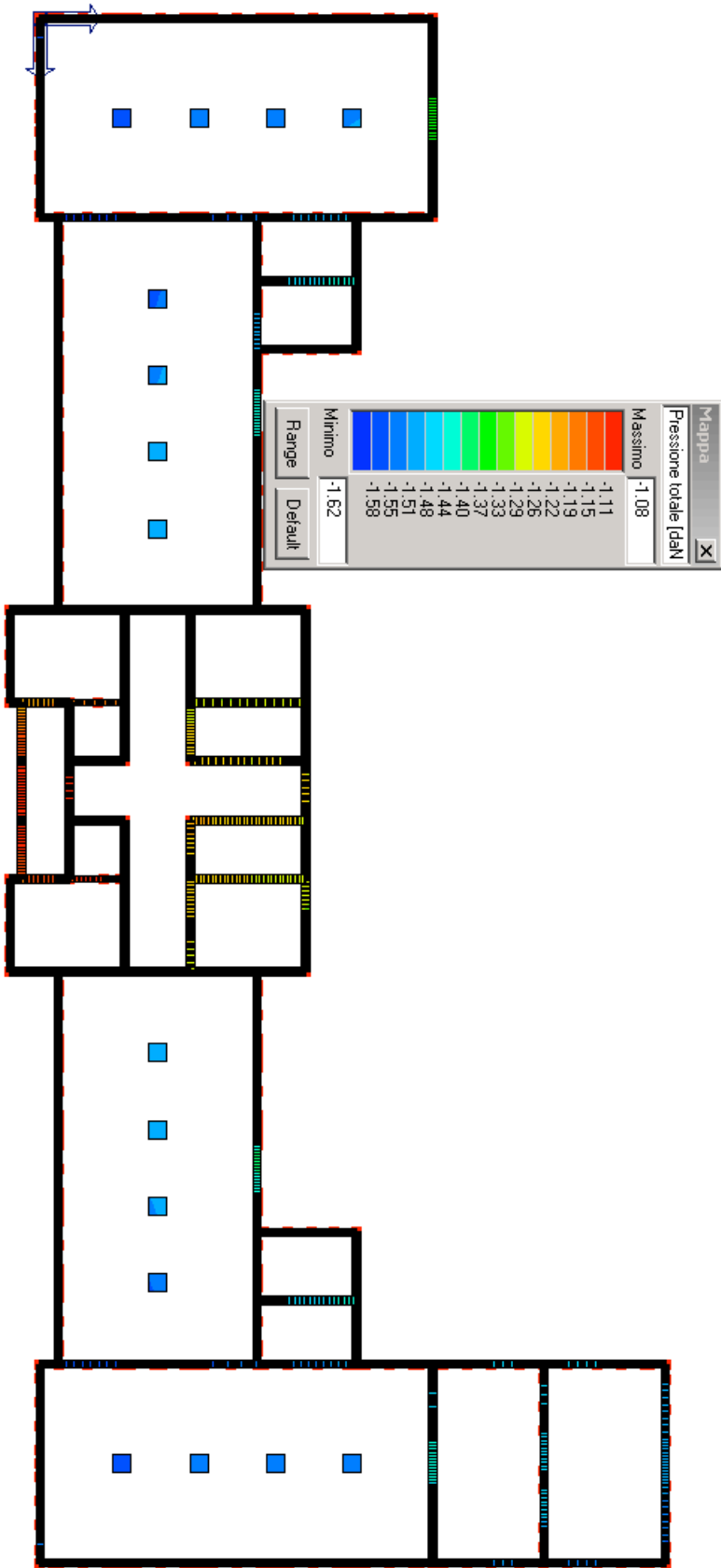
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391	1	-1.62	-1.63	-1.63	2	-1.61	-1.62	-1.62	3	-1.40	-1.41	-1.41
392	1	-1.63	-1.64	-1.64	2	-1.62	-1.63	-1.63	3	-1.41	-1.41	-1.41
393	1	-1.64	-1.64	-1.64	2	-1.63	-1.63	-1.63	3	-1.41	-1.41	-1.41
394	1	-1.64	-1.63	-1.64	2	-1.63	-1.63	-1.63	3	-1.41	-1.41	-1.41
395	1	-1.63	-1.63	-1.63	2	-1.63	-1.62	-1.63	3	-1.41	-1.41	-1.41
396	1	-1.63	-1.67	-1.67	2	-1.62	-1.66	-1.66	3	-1.41	-1.44	-1.44
397	1	-1.67	-1.68	-1.68	2	-1.66	-1.68	-1.68	3	-1.44	-1.45	-1.45
398	1	-1.68	-1.69	-1.69	2	-1.68	-1.68	-1.68	3	-1.45	-1.46	-1.46
399	1	-1.69	-1.70	-1.70	2	-1.68	-1.69	-1.69	3	-1.46	-1.46	-1.46
400	1	-1.70	-1.72	-1.72	2	-1.69	-1.71	-1.71	3	-1.46	-1.48	-1.48
401	1	-1.72	-1.73	-1.73	2	-1.71	-1.72	-1.72	3	-1.48	-1.49	-1.49
402	1	-1.73	-1.75	-1.75	2	-1.72	-1.74	-1.74	3	-1.49	-1.50	-1.50
403	1	-1.75	-1.76	-1.76	2	-1.74	-1.75	-1.75	3	-1.50	-1.51	-1.51
404	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.51	-1.51	-1.51
405	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.51	-1.51	-1.51
406	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.51	-1.51	-1.51
407	1	-1.76	-1.76	-1.76	2	-1.75	-1.76	-1.76	3	-1.51	-1.51	-1.51
408	1	-1.76	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.51	-1.52	-1.52
409	1	-1.77	-1.78	-1.78	2	-1.76	-1.77	-1.77	3	-1.52	-1.52	-1.52
410	1	-1.78	-1.78	-1.78	2	-1.77	-1.77	-1.77	3	-1.52	-1.53	-1.53
411	1	-1.75	-1.74	-1.75	2	-1.74	-1.73	-1.74	3	-1.51	-1.50	-1.51
412	1	-1.71	-1.70	-1.71	2	-1.70	-1.69	-1.70	3	-1.48	-1.47	-1.48
413	1	-1.71	-1.70	-1.71	2	-1.71	-1.69	-1.70	3	-1.48	-1.47	-1.48
414	1	-1.75	-1.74	-1.75	2	-1.75	-1.73	-1.75	3	-1.51	-1.50	-1.51
415	1	-1.78	-1.77	-1.78	2	-1.77	-1.77	-1.77	3	-1.54	-1.53	-1.54
416	1	-1.78	-1.77	-1.78	2	-1.77	-1.77	-1.77	3	-1.53	-1.52	-1.53
417	1	-1.51	-1.51	-1.51	2	-1.49	-1.49	-1.49	3	-1.32	-1.32	-1.32
418	1	-1.50	-1.51	-1.51	2	-1.49	-1.50	-1.50	3	-1.31	-1.31	-1.31
419	1	-1.48	-1.47	-1.48	2	-1.46	-1.45	-1.45	3	-1.29	-1.29	-1.29
420	1	-1.73	-1.73	-1.73	2	-1.73	-1.73	-1.73	3	-1.50	-1.49	-1.50
421	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
422	1	-1.45	-1.44	-1.44	2	-1.41	-1.41	-1.41	3	-1.26	-1.26	-1.26
423	1	-1.73	-1.73	-1.73	2	-1.73	-1.72	-1.73	3	-1.49	-1.49	-1.49
424	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
425	1	-1.51	-1.51	-1.51	2	-1.49	-1.49	-1.49	3	-1.32	-1.32	-1.32
426	1	-1.51	-1.51	-1.51	2	-1.50	-1.50	-1.50	3	-1.31	-1.32	-1.32
427	1	-1.77	-1.74	-1.77	2	-1.77	-1.74	-1.76	3	-1.53	-1.51	-1.53
428	1	-1.77	-1.76	-1.77	2	-1.77	-1.75	-1.76	3	-1.52	-1.52	-1.52
429	1	-1.74	-1.69	-1.73	2	-1.73	-1.68	-1.73	3	-1.50	-1.47	-1.50
430	1	-1.70	-1.64	-1.69	2	-1.69	-1.63	-1.68	3	-1.47	-1.43	-1.47
431	1	-1.70	-1.64	-1.69	2	-1.69	-1.63	-1.68	3	-1.47	-1.43	-1.46
432	1	-1.74	-1.70	-1.74	2	-1.73	-1.70	-1.73	3	-1.50	-1.47	-1.50
433	1	-1.73	-1.73	-1.73	2	-1.72	-1.72	-1.72	3	-1.49	-1.49	-1.49
434	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
435	1	-1.73	-1.72	-1.73	2	-1.72	-1.72	-1.72	3	-1.49	-1.49	-1.49
436	1	-1.77	-1.77	-1.77	2	-1.76	-1.76	-1.76	3	-1.52	-1.52	-1.52
437	1	-1.43	-1.44	-1.44	2	-1.41	-1.42	-1.42	3	-1.25	-1.27	-1.27
438	1	-1.45	-1.47	-1.47	2	-1.43	-1.45	-1.45	3	-1.27	-1.29	-1.29
439	1	-1.51	-1.51	-1.51	2	-1.49	-1.49	-1.49	3	-1.32	-1.32	-1.32
440	1	-1.51	-1.52	-1.52	2	-1.50	-1.51	-1.51	3	-1.32	-1.32	-1.32
441	1	-1.44	-1.44	-1.44	2	-1.41	-1.41	-1.41	3	-1.26	-1.26	-1.26
442	1	-1.47	-1.47	-1.47	2	-1.45	-1.44	-1.45	3	-1.29	-1.28	-1.29
443	1	-1.51	-1.52	-1.52	2	-1.49	-1.50	-1.50	3	-1.32	-1.33	-1.33
444	1	-1.52	-1.53	-1.53	2	-1.51	-1.52	-1.52	3	-1.32	-1.34	-1.34
445	1	-1.64	-1.59	-1.63	2	-1.63	-1.58	-1.63	3	-1.43	-1.40	-1.43
446	1	-1.64	-1.59	-1.63	2	-1.63	-1.58	-1.63	3	-1.43	-1.40	-1.43
447	1	-1.44	-1.44	-1.44	2	-1.41	-1.42	-1.42	3	-1.26	-1.26	-1.26
448	1	-1.72	-1.71	-1.72	2	-1.72	-1.70	-1.72	3	-1.49	-1.48	-1.49
449	1	-1.77	-1.76	-1.77	2	-1.76	-1.75	-1.76	3	-1.52	-1.52	-1.52
450	1	-1.74	-1.72	-1.74	2	-1.74	-1.72	-1.74	3	-1.51	-1.50	-1.51
451	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.52	-1.52	-1.52
452	1	-1.69	-1.64	-1.69	2	-1.68	-1.64	-1.68	3	-1.47	-1.44	-1.47
453	1	-1.70	-1.67	-1.70	2	-1.70	-1.66	-1.69	3	-1.47	-1.45	-1.47
454	1	-1.52	-1.51	-1.52	2	-1.50	-1.49	-1.50	3	-1.33	-1.32	-1.33
455	1	-1.51	-1.50	-1.51	2	-1.49	-1.47	-1.49	3	-1.32	-1.31	-1.32
456	1	-1.50	-1.48	-1.50	2	-1.47	-1.46	-1.47	3	-1.31	-1.30	-1.31
457	1	-1.48	-1.47	-1.48	2	-1.46	-1.44	-1.45	3	-1.30	-1.29	-1.30
458	1	-1.47	-1.47	-1.47	2	-1.44	-1.44	-1.44	3	-1.29	-1.29	-1.29
459	1	-1.47	-1.46	-1.47	2	-1.44	-1.43	-1.44	3	-1.29	-1.28	-1.28
460	1	-1.46	-1.45	-1.46	2	-1.43	-1.42	-1.43	3	-1.28	-1.27	-1.28
461	1	-1.45	-1.44	-1.45	2	-1.42	-1.42	-1.42	3	-1.27	-1.26	-1.27
462	1	-1.44	-1.44	-1.44	2	-1.42	-1.41	-1.42	3	-1.26	-1.26	-1.26
463	1	-1.44	-1.44	-1.44	2	-1.41	-1.41	-1.41	3	-1.26	-1.26	-1.26
464	1	-1.44	-1.45	-1.45	2	-1.41	-1.42	-1.42	3	-1.26	-1.27	-1.27
465	1	-1.45	-1.45	-1.45	2	-1.42	-1.43	-1.43	3	-1.27	-1.28	-1.28
466	1	-1.45	-1.47	-1.47	2	-1.43	-1.45	-1.45	3	-1.28	-1.29	-1.29
467	1	-1.47	-1.47	-1.47	2	-1.45	-1.45	-1.45	3	-1.29	-1.29	-1.29
468	1	-1.47	-1.49	-1.49	2	-1.45	-1.47	-1.47	3	-1.29	-1.30	-1.30
469	1	-1.49	-1.50	-1.50	2	-1.47	-1.49	-1.49	3	-1.30	-1.32	-1.32
470	1	-1.50	-1.52	-1.52	2	-1.49	-1.51	-1.51	3	-1.32	-1.33	-1.33
471	1	-1.52	-1.53	-1.53	2	-1.51	-1.52	-1.52	3	-1.33	-1.34	-1.34
472	1	-1.59	-1.55	-1.59	2	-1.58	-1.54	-1.58	3	-1.40	-1.38	-1.40
473	1	-1.59	-1.55	-1.59	2	-1.58	-1.54	-1.58	3	-1.40	-1.37	-1.40
474	1	-1.71	-1.70	-1.71	2	-1.70	-1.69	-1.70	3	-1.48	-1.47	-1.48
475	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.52	-1.52	-1.52
476	1	-1.72	-1.70	-1.72	2	-1.72	-1.69	-1.72	3	-1.50	-1.48	-1.50
477	1	-1.76	-1.75	-1.76	2	-1.75	-1.74	-1.75	3	-1.52	-1.51	-1.52

478	1	-1.64	-1.59	-1.64	2	-1.64	-1.59	-1.63	3	-1.44	-1.41	-1.44
479	1	-1.67	-1.62	-1.66	2	-1.66	-1.62	-1.66	3	-1.45	-1.43	-1.45
480	1	-1.70	-1.70	-1.70	2	-1.69	-1.69	-1.69	3	-1.47	-1.47	-1.47
481	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.52	-1.52	-1.52
482	1	-1.55	-1.50	-1.54	2	-1.54	-1.50	-1.54	3	-1.38	-1.35	-1.37
483	1	-1.55	-1.51	-1.54	2	-1.54	-1.50	-1.54	3	-1.37	-1.35	-1.37
484	1	-1.70	-1.69	-1.70	2	-1.69	-1.69	-1.69	3	-1.47	-1.47	-1.47
485	1	-1.70	-1.69	-1.70	2	-1.69	-1.69	-1.69	3	-1.48	-1.48	-1.48
486	1	-1.75	-1.75	-1.75	2	-1.74	-1.74	-1.74	3	-1.51	-1.51	-1.51
487	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.52	-1.52	-1.52
488	1	-1.69	-1.69	-1.69	2	-1.69	-1.68	-1.69	3	-1.47	-1.46	-1.47
489	1	-1.69	-1.69	-1.69	2	-1.69	-1.68	-1.69	3	-1.48	-1.47	-1.48
490	1	-1.75	-1.75	-1.75	2	-1.74	-1.74	-1.74	3	-1.51	-1.51	-1.51
491	1	-1.76	-1.76	-1.76	2	-1.75	-1.75	-1.75	3	-1.52	-1.52	-1.52
492	1	-1.69	-1.67	-1.69	2	-1.68	-1.67	-1.68	3	-1.47	-1.46	-1.47
493	1	-1.67	-1.63	-1.67	2	-1.67	-1.63	-1.66	3	-1.46	-1.44	-1.46
494	1	-1.63	-1.60	-1.63	2	-1.63	-1.59	-1.63	3	-1.44	-1.41	-1.43
495	1	-1.60	-1.59	-1.60	2	-1.59	-1.58	-1.59	3	-1.41	-1.41	-1.41
496	1	-1.59	-1.58	-1.59	2	-1.58	-1.58	-1.58	3	-1.41	-1.40	-1.41
497	1	-1.58	-1.55	-1.58	2	-1.58	-1.54	-1.57	3	-1.40	-1.38	-1.40
498	1	-1.55	-1.52	-1.55	2	-1.54	-1.51	-1.54	3	-1.38	-1.36	-1.38
499	1	-1.52	-1.51	-1.52	2	-1.51	-1.50	-1.51	3	-1.36	-1.35	-1.36
500	1	-1.51	-1.53	-1.53	2	-1.50	-1.52	-1.52	3	-1.35	-1.36	-1.36
501	1	-1.53	-1.56	-1.56	2	-1.52	-1.56	-1.56	3	-1.36	-1.39	-1.39
502	1	-1.56	-1.61	-1.61	2	-1.56	-1.60	-1.60	3	-1.39	-1.42	-1.42
503	1	-1.61	-1.62	-1.62	2	-1.60	-1.61	-1.61	3	-1.42	-1.42	-1.42
504	1	-1.62	-1.63	-1.63	2	-1.61	-1.62	-1.62	3	-1.42	-1.43	-1.43
505	1	-1.63	-1.68	-1.68	2	-1.62	-1.67	-1.67	3	-1.43	-1.46	-1.46
506	1	-1.68	-1.73	-1.73	2	-1.67	-1.72	-1.72	3	-1.46	-1.49	-1.49
507	1	-1.73	-1.74	-1.74	2	-1.72	-1.73	-1.73	3	-1.49	-1.51	-1.51
508	1	-1.69	-1.68	-1.69	2	-1.68	-1.68	-1.68	3	-1.46	-1.46	-1.46
509	1	-1.69	-1.68	-1.69	2	-1.68	-1.67	-1.68	3	-1.47	-1.46	-1.47
510	1	-1.75	-1.74	-1.75	2	-1.74	-1.73	-1.74	3	-1.51	-1.51	-1.51
511	1	-1.76	-1.76	-1.76	2	-1.75	-1.74	-1.75	3	-1.52	-1.52	-1.52
512	1	-1.68	-1.67	-1.68	2	-1.68	-1.67	-1.68	3	-1.46	-1.45	-1.46
513	1	-1.68	-1.64	-1.67	2	-1.67	-1.64	-1.67	3	-1.46	-1.44	-1.46
514	1	-1.74	-1.72	-1.74	2	-1.73	-1.71	-1.73	3	-1.51	-1.49	-1.50
515	1	-1.76	-1.75	-1.76	2	-1.74	-1.74	-1.74	3	-1.52	-1.52	-1.52
516	1	-1.67	-1.66	-1.67	2	-1.67	-1.66	-1.66	3	-1.45	-1.44	-1.45
517	1	-1.64	-1.62	-1.64	2	-1.64	-1.61	-1.63	3	-1.44	-1.42	-1.44
518	1	-1.72	-1.71	-1.72	2	-1.71	-1.70	-1.71	3	-1.49	-1.48	-1.49
519	1	-1.75	-1.75	-1.75	2	-1.74	-1.73	-1.74	3	-1.52	-1.52	-1.52
520	1	-1.66	-1.66	-1.66	2	-1.66	-1.66	-1.66	3	-1.44	-1.44	-1.44
521	1	-1.62	-1.61	-1.62	2	-1.61	-1.60	-1.61	3	-1.42	-1.42	-1.42
522	1	-1.71	-1.71	-1.71	2	-1.70	-1.69	-1.70	3	-1.48	-1.48	-1.48
523	1	-1.75	-1.75	-1.75	2	-1.73	-1.73	-1.73	3	-1.52	-1.52	-1.52
524	1	-1.66	-1.66	-1.66	2	-1.66	-1.65	-1.66	3	-1.44	-1.44	-1.44
525	1	-1.61	-1.60	-1.61	2	-1.60	-1.59	-1.60	3	-1.42	-1.41	-1.42
526	1	-1.71	-1.70	-1.70	2	-1.69	-1.68	-1.69	3	-1.48	-1.48	-1.48
527	1	-1.75	-1.75	-1.75	2	-1.73	-1.73	-1.73	3	-1.52	-1.52	-1.52
528	1	-1.65	-1.64	-1.65	2	-1.65	-1.64	-1.65	3	-1.44	-1.43	-1.44
529	1	-1.64	-1.63	-1.64	2	-1.64	-1.63	-1.64	3	-1.43	-1.43	-1.43
530	1	-1.63	-1.61	-1.63	2	-1.63	-1.61	-1.63	3	-1.43	-1.41	-1.42
531	1	-1.61	-1.58	-1.61	2	-1.61	-1.57	-1.61	3	-1.41	-1.38	-1.41
532	1	-1.58	-1.56	-1.58	2	-1.57	-1.55	-1.57	3	-1.38	-1.37	-1.38
533	1	-1.56	-1.55	-1.56	2	-1.55	-1.55	-1.55	3	-1.37	-1.36	-1.36
534	1	-1.55	-1.57	-1.57	2	-1.55	-1.56	-1.56	3	-1.36	-1.37	-1.37
535	1	-1.57	-1.59	-1.59	2	-1.56	-1.58	-1.58	3	-1.37	-1.40	-1.40
536	1	-1.59	-1.60	-1.60	2	-1.58	-1.59	-1.59	3	-1.40	-1.41	-1.41
537	1	-1.60	-1.60	-1.60	2	-1.59	-1.59	-1.59	3	-1.41	-1.41	-1.41
538	1	-1.60	-1.60	-1.60	2	-1.59	-1.59	-1.59	3	-1.41	-1.41	-1.41
539	1	-1.70	-1.70	-1.70	2	-1.69	-1.68	-1.69	3	-1.48	-1.47	-1.48
540	1	-1.70	-1.70	-1.70	2	-1.68	-1.68	-1.68	3	-1.47	-1.47	-1.47
541	1	-1.70	-1.69	-1.70	2	-1.68	-1.68	-1.68	3	-1.47	-1.47	-1.47
542	1	-1.69	-1.67	-1.69	2	-1.68	-1.65	-1.67	3	-1.47	-1.45	-1.46
543	1	-1.67	-1.65	-1.67	2	-1.65	-1.64	-1.65	3	-1.45	-1.43	-1.45
544	1	-1.65	-1.67	-1.67	2	-1.64	-1.65	-1.65	3	-1.43	-1.45	-1.45
545	1	-1.67	-1.68	-1.68	2	-1.65	-1.67	-1.67	3	-1.45	-1.46	-1.46
546	1	-1.68	-1.72	-1.72	2	-1.67	-1.70	-1.70	3	-1.46	-1.49	-1.49
547	1	-1.72	-1.73	-1.73	2	-1.70	-1.72	-1.72	3	-1.49	-1.51	-1.51
548	1	-1.73	-1.74	-1.74	2	-1.72	-1.72	-1.72	3	-1.51	-1.51	-1.51
549	1	-1.74	-1.74	-1.74	2	-1.72	-1.73	-1.73	3	-1.51	-1.52	-1.52
550	1	-1.70	-1.69	-1.70	2	-1.68	-1.68	-1.68	3	-1.48	-1.47	-1.47
551	1	-1.75	-1.74	-1.75	2	-1.73	-1.73	-1.73	3	-1.52	-1.52	-1.52
552	1	-1.69	-1.68	-1.69	2	-1.68	-1.67	-1.68	3	-1.47	-1.46	-1.47
553	1	-1.74	-1.74	-1.74	2	-1.73	-1.72	-1.73	3	-1.52	-1.52	-1.52
554	1	-1.68	-1.67	-1.68	2	-1.67	-1.65	-1.66	3	-1.46	-1.46	-1.46
555	1	-1.74	-1.73	-1.74	2	-1.72	-1.72	-1.72	3	-1.52	-1.51	-1.52
556	1	-1.67	-1.67	-1.67	2	-1.65	-1.65	-1.65	3	-1.46	-1.46	-1.46
557	1	-1.73	-1.73	-1.73	2	-1.72	-1.72	-1.72	3	-1.51	-1.52	-1.52
558	1	-1.67	-1.66	-1.67	2	-1.65	-1.65	-1.65	3	-1.46	-1.46	-1.46
559	1	-1.73	-1.73	-1.73	2	-1.72	-1.72	-1.72	3	-1.52	-1.52	-1.52
560	1	-1.66	-1.65	-1.66	2	-1.65	-1.64	-1.65	3	-1.46	-1.45	-1.46
561	1	-1.65	-1.67	-1.67	2	-1.64	-1.65	-1.65	3	-1.45	-1.46	-1.46
562	1	-1.67	-1.67	-1.67	2	-1.65	-1.66	-1.66	3	-1.46	-1.46	-1.46
563	1	-1.67	-1.68	-1.68	2	-1.66	-1.66	-1.66	3	-1.46	-1.47	-1.47
564	1	-1.68	-1.68	-1.68	2	-1.66	-1.67	-1.67	3	-1.47	-1.47	-1.47
565	1	-1.68	-1.69	-1.69	2	-1.67	-1.68	-1.68	3	-1.47	-1.49	-1.49

566	1	-1.69	-1.72	-1.72	2	-1.68	-1.70	-1.70	3	-1.49	-1.51	-1.51
567	1	-1.72	-1.73	-1.73	2	-1.70	-1.72	-1.72	3	-1.51	-1.52	-1.52
568	1	-1.66	-1.66	-1.66	2	-1.65	-1.65	-1.65	3	-1.46	-1.46	-1.46
569	1	-1.73	-1.73	-1.73	2	-1.72	-1.72	-1.72	3	-1.52	-1.53	-1.53
570	1	-1.66	-1.66	-1.66	2	-1.65	-1.65	-1.65	3	-1.46	-1.47	-1.47
571	1	-1.73	-1.73	-1.73	2	-1.72	-1.72	-1.72	3	-1.53	-1.53	-1.53
572	1	-1.66	-1.67	-1.67	2	-1.65	-1.65	-1.65	3	-1.47	-1.47	-1.47
573	1	-1.73	-1.74	-1.74	2	-1.72	-1.73	-1.73	3	-1.53	-1.54	-1.54
574	1	-1.67	-1.67	-1.67	2	-1.65	-1.66	-1.66	3	-1.47	-1.48	-1.48
575	1	-1.74	-1.75	-1.75	2	-1.73	-1.73	-1.73	3	-1.54	-1.55	-1.55
576	1	-1.67	-1.67	-1.67	2	-1.66	-1.66	-1.66	3	-1.48	-1.49	-1.49
577	1	-1.75	-1.75	-1.75	2	-1.73	-1.74	-1.74	3	-1.55	-1.55	-1.55
578	1	-1.67	-1.68	-1.68	2	-1.66	-1.66	-1.66	3	-1.49	-1.49	-1.49
579	1	-1.75	-1.76	-1.76	2	-1.74	-1.74	-1.74	3	-1.55	-1.56	-1.56
580	1	-1.68	-1.68	-1.68	2	-1.66	-1.67	-1.67	3	-1.49	-1.49	-1.49
581	1	-1.68	-1.69	-1.69	2	-1.67	-1.67	-1.67	3	-1.49	-1.50	-1.50
582	1	-1.69	-1.67	-1.69	2	-1.67	-1.66	-1.67	3	-1.50	-1.49	-1.50
583	1	-1.67	-1.69	-1.69	2	-1.66	-1.68	-1.68	3	-1.49	-1.50	-1.50
584	1	-1.69	-1.73	-1.73	2	-1.68	-1.71	-1.71	3	-1.50	-1.54	-1.54
585	1	-1.73	-1.75	-1.75	2	-1.71	-1.73	-1.73	3	-1.54	-1.55	-1.55
586	1	-1.75	-1.76	-1.76	2	-1.73	-1.74	-1.74	3	-1.55	-1.56	-1.56
<b>Elem.</b>		<b>Pt ini</b>	<b>Pt fin</b>	<b>Pt max</b>		<b>Pt ini</b>	<b>Pt fin</b>	<b>Pt max</b>		<b>Pt ini</b>	<b>Pt fin</b>	<b>Pt max</b>
		-1.88										
		-1.09										







## **CONCLUSIONI**

Come si può notare dai grafici sopra riportati e dalle tabelle con i valori delle pressioni al suolo in condizioni di esercizio (comb. 1 e 2) e pressioni relative ai soli pesi permanenti si possono effettuare le seguenti considerazioni:

- 1) la parte centrale rappresenta la parte con pressioni al suolo inferiori e con una miglior distribuzione delle pressioni sia nella combinazione di esercizio che per quanto riguarda i soli pesi permanenti (variabili tra -1,23 e -1,53 in condizioni di esercizio comb. 1 e variabile tra -1,08 e -1,34 in comb. 3)
- 2) Le ali soprattutto quelle sopraelevate sulle pareti portanti presentano valori delle pressioni al suolo maggiormente elevate e con maggior dispersione dei valori per la presenza di carichi concentrati, sia nella combinazione di esercizio che per quanto riguarda i soli pesi permanenti (variabili tra -1,84 e -1,43 in condizioni di esercizio comb. 1 e variabile tra -1,58 e -1,24 in comb. 3)
- 3) I plinti presentano i massimi valori di pressione al suolo, sia nella combinazione di esercizio che per quanto riguarda i soli pesi permanenti, con differenze di pressioni con le altre parti dell'edificio maggiormente evidenti in combinazione 1 e 2 (-2,10 in condizioni di esercizio comb. 1 e -1,57 in comb. 3).
- 4) Si può quindi affermare che allo stato di progetto lo stato tensionale in fondazione non viene modificato, mentre per quanto riguarda i plinti di fondazione viene leggermente migliorato, portando i valori di tensione al suolo a valori simili a quelli presenti nelle fondazioni delle ali stesse.