

COMUNE DI VARALLO POMBIA

PROVINCIA DI NOVARA

COSTRUZIONE DI CENTRO DI COTTURA CON ANNESSA MENSA SCOLASTICA IN VIA LANA

PROGETTO ESECUTIVO

ELABORATO	DENOMINAZIONE
7.01	RELAZIONE DELLE STRUTTURE

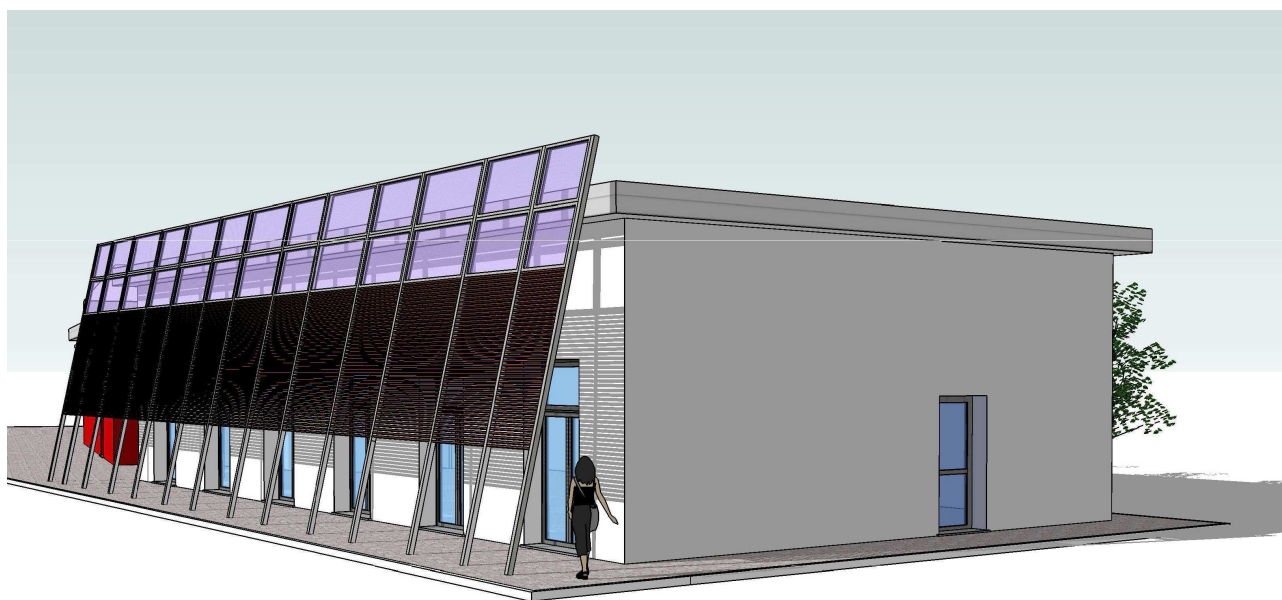
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COMUNE DI VARALLO POMBIA
Provincia di Novara

COSTRUZIONE DI CENTRO COTTURA
CON ANNESSA MENSA SCOLASTICA IN VIA LANA



RELAZIONE DELLE STRUTTURE

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1 OGGETTO

Oggetto del presente documento sono il progetto e le verifiche strutturali relative alle opere per la realizzazione di un centro di cottura con annessa mensa scolastica, in via Lana nel Comune di Varallo Pombia (NO)

La struttura risulta composta da due corpi principali, copro cucina e corpo refettorio, rispettivamente delle dimensioni in pianta di 12,80 x 15,30 ml e 11,30x21,80 ml, collegati da un corpo minore di forma irregolare avente superficie pari a circa 60 mq.

L'edificio, costituito da un unico piano fuori terra risulta avere altezza sotto gronda massima pari a 5.0 m.

Le fondazioni sono del tipo diretto, a ciabatta continua.

Le strutture in elevazione consistono in pilastri in c.a.

Per la realizzazione dei solai di copertura dei tre blocchi viene previsto l'impiego di materiali differenti. Nello specifico per il corpo cucina viene previsto l'impiego di lastre alveolari, per il corpo di collegamento viene previsto l'utilizzo di lastre prefabbricate tipo predalles e per il corpo refettorio viene prevista la realizzazione di una struttura in legno lamellare.

Viene inoltre prevista la realizzazione di una struttura in profilati metallici per sostenere i pannelli metallici e fotovoltaici che verranno installati sopra la copertura del corpo cucina.

2 NORMATIVA

La normativa adottata è la seguente:

Legge 05/11/71 n° 1086

Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica.

Decreto Ministeriale 14/01/2008

Norme tecniche per le costruzioni

Ministero delle Infrastrutture e dei trasporti

Circolare 2 febbraio 2009 n.617 Consiglio Superiore dei Lavori Pubblici

Istruzioni per l'applicazione delle "Nuove norme tecniche per le costruzioni" di cui al D.M. 14/01/08

3 MATERIALI

I materiali adottati sono i seguenti:

- Materiali per parti strutturali in calcestruzzo armato:

Calcestruzzo

Classe di esposizione \geq	XC2
Classe di resistenza \geq	C 25/30
Classe di lavorabilità \geq	S4

acciaio per c.a. in barre ad aderenza migliorata B450C (saldabile)

- Materiali per carpenteria metallica:

Acciaio:	S 275 JR	UNI-EN 10025
Bulloni:	cl. 8,8	UNI 3740
Elettrodi per saldature:	E44 cl. 4	UNI 5231

- Materiali per copertura in Legno Lamellare:

Legno lamellare di conifera omogeneo: Classe GL32c EN 1194

Chiodi zincati: $f_{uk} > 600$ Mpa UNI-EN 409/97

4 CARICHI

Azioni ambientali e naturali

Vento

Zona: 1

Classe di rugosità: B

Categoria di esposizione: IV

$C_e = 1.64$

$q = 0.64 \text{ kN/m}^2$

Neve

Zona: 1

$a_s = 300 \text{ m}$

$q_{sk} = 1.62 \text{ kN/m}^2$

$C_E = 1$

$\mu = 0.8$

Sisma

Zona sismica: IV

Classe d'uso: III

Vita nominale $V_N > 50$ anni

Azioni antropiche

Refettorio

Copertura

travi in L.L. 1.20 kN/m²

Sovraccarichi permanenti

Manto di copertura:	0.50 kN/m ²
perlinatura (ed isolanti)	<u>0.30 kN/m²</u>

Tot. sovraccarichi permanenti (arrotondato): 0.80 kN/m²

Piano terra

Solaio alveolare (sp. 36 cm): 4.20 kN/m²

Sovraccarichi permanenti

sottofondo per impianti (ed isolanti)	1.60 kN/m ²
sottofondo ed impianto termico (sp. 6 cm)	0.60 kN/m ²
sottofondo per pavimento (sp. 4 cm)	0.80 kN/m ²

pavimenti	0.40 kN/m ²
tavolati	<u>0.00 kN/m²</u>
Tot. sovraccarichi permanenti (arrotondato):	3.50 kN/m ²

Sovraccarichi accidentali	4.00 kN/m ²
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Cucina

Copertura

Solaio alveolare (sp. 42 cm):	4.90kN/m ²
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Sovraccarichi permanenti

Manto di copertura:	0.50 kN/m ²
Impianti (pannelli solari e solare termico)	<u>1.50kN/m²</u>
Tot. sovraccarichi permanenti:	2.00 kN/m ²

Piano terra

Solaio alveolare (sp. 42 cm):	4.90 kN/m ²
-------------------------------	------------------------

Sovraccarichi permanenti

sottofondo per impianti (sp. 15 cm)	3.00 kN/m ²
pavimenti	0.40 kN/m ²
tavolati	<u>1.00 kN/m²</u>
Tot. sovraccarichi permanenti (arrotondato):	4.50 kN/m ²

Sovraccarichi accidentali	2.00 kN/m ²
---------------------------	------------------------

Pareti

Permanenti

Intonaco:	0.60 kN/m ²
Isolante:	0.20 kN/m ²
Parete in elementi artif. portanti (sp=37.5 cm):	<u>1.90 kN/m²</u>
Tot. permanenti:	2.70 kN/m ²

5 VERIFICHE

Predimensionamento elementi prefabbricati per solai

Cucina

Copertura

Luce di Calcolo [m]	12.3	Sovraccarico Permanente [kN/m ²]
	2	
Resistenza al Fuoco [min.]	90	Sovraccarico Accidentale [kN/m ²]
	2	
Zona Sismica (Solaio con Cappa)	NO	

	Semplice Appoggio (campata unica) Debole Incastro (campata laterale) in continuità Incastro Parziale (campata centrale) in continuità	
Spessore Lastra	RAP h=cm36 RAP h=cm36 RAP h=cm36	
Spessore Cappa [cm]	0 0 0	
Arm. di Precompressione [mm ²]	876 876 876	
Arm. Max Raccomandata [mm ²]	1300 1300 1300	

(valori riferiti alla larghezza modulare della lastra di m 1.20)

	Semplice Appoggio (campata unica)
	Debole Incastro (campata laterale) in continuità
	Incastro Parziale (campata centrale) in continuità
Momento Flettente calc. Me [kNm]	192.89
	174.74
	162.64
Peso Proprio del Solaio [kN/m ²]	4.50
	4.50
	4.50
Asse Neutro X' [cm]	0.00
	0.00
	0.00
Momento di Inerzia Ji [cm ⁴]	331,108
	331,108
	331,108
Mod. Resistenza Sup. Ws [cm ³]	18,323
	18,323
	18,323
Mod. Resistenza Inf. Wi [cm ³]	18,467
	18,467
	18,467
Tensione a c.e. Sup. σ^s [MPa]	-0.24
	-0.24
	-0.24
Tensione a c.e. Inf. σ^i [MPa]	9.87
	9.87
	9.87
Momento di Rottura Mra [kNm]	0.00
	0.00
	0.00
Momento di Esercizio Max. [kNm]	198.46
	198.46
	198.46
Freccia Elastica [cm]	0.62
	0.31
	0.31

Sul solaio sarà prevista una cappa di cls armato, di sp. 6 cm, armata con rete elettrosaldata.

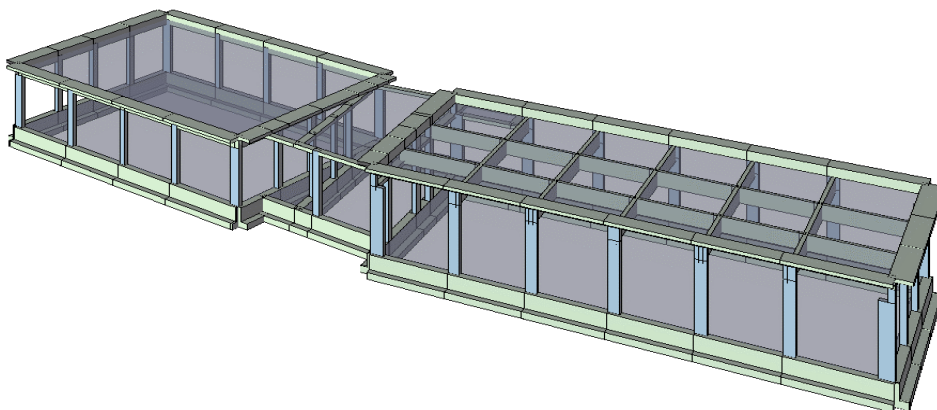
Ciò comporta un aumento del carico pari a 1.9 kN/m^2

Nelle pagine seguenti si riportano le principali verifiche svolte per gli elementi strutturali maggiormente sollecitati.

Il metodo di calcolo utilizzato è quello agli stati limite.

Le sollecitazioni agenti sono state ottenute con la formula seguente:

$$F_d = \gamma_g G_k + \gamma_q [Q_{1k} + \sum(\psi_{0i} Q_{ik})]$$



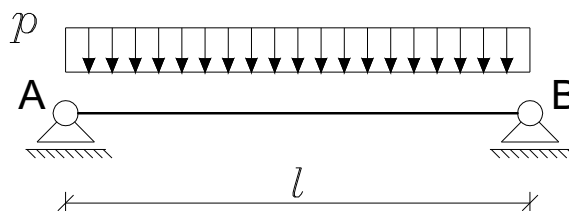
modello 3D

REFETTORIO

Copertura

Trave principale in Legno lamellare

La struttura principale è costituita da travi in legno lamellare di sezione 180x920



Interasse = 3.5 m

$l = 10.750 \text{ m}$

$$g_k = (7.00 \cdot 0.18 \cdot (h = 0.92) + 0.80) \cdot 3.5 = 6.86 \text{ kN/m}$$

$$q_k = (1.5 \cdot 0.8) \cdot 3.5 = 4.2 \text{ kN/m}$$

$$f_{m,d} = k_{mod} \cdot \gamma_M \cdot f_{m,k} = 0.6 \cdot 24 / 1.3 = 11.07 \text{ N/mm}^2$$

$$\tau_{m,d} = k_{mod} \cdot \gamma_M \cdot f_{m,k} = 0.6 \cdot 2.7 / 1.3 = 1.25 \text{ N/mm}^2$$

$$V_{Sd} = [1.4 \cdot 6.86 + 1.5 \cdot 4.2] \cdot 10.75 / 2 = 85.46 \text{ kN}$$

$$M_{Sd} = [1.4 \cdot 6.86 + 1.5 \cdot 4.2] \cdot 10.75^2 / 8 = 229.68 \text{ kNm}$$

$$B = 18 \text{ cm}$$

$$H_{max} = 92 \text{ cm}$$

- Verifica per sollecitazioni flettenti

$$W = 180 \cdot 920^2 / 6 = 25.392 \cdot 10^6 \text{ mm}^3$$

$$M_{Rd} = 25.392 \cdot 10^6 \cdot 11.07 / 1000^2 = 281.09 \text{ kNm} > M_{Sd}$$

- Verifica per sollecitazioni taglianti

$$\tau_{max} = 85.46 \cdot 10^3 / (920 \cdot 180 \cdot 0.667) = 0.77 \text{ N/mm}^2 > \tau_{m,d}$$

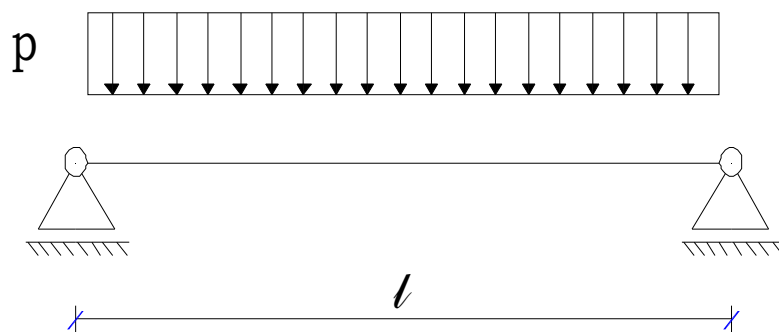
- Verifica di deformabilità:

$$f_v = 5ql^4 / 384EJ = 16.5 \text{ mm} = l / 651$$

CUCINA

Struttura metallica secondaria per impianti sulla copertura della cucina

Trave IPE 160



$$P_p = 50 \text{ kg/m}^2$$

$$P_{pannelli} = 50 \text{ kg/m}^2$$

$$P_{neve} = 150 \text{ kg/m}^2$$

$$p = (50 + 50 + 150) \cdot 1.2 / 2 = 150 \text{ kg/m}$$

$$l = 6.125 \text{ m}$$

- Verifica di deformabilità:

$$f_v = 5ql^4/384EJ = 15 \text{ mm} = l/408$$

- Verifica per sollecitazioni flettenti

$$M = (150 \cdot 6.125^2)/8 = 704 \text{ kg}\cdot\text{m}$$

$$\sigma = M / W = 64.6 \text{ N/mm}^2 < 190 \text{ N/mm}^2$$

- Verifica per sollecitazioni taglianti

$$V = (150 \cdot 6.125)/2 = 460 \text{ kg}$$

$$\tau_{\max} = V / A_w = 6.57 \text{ N/mm}^2 < 109 \text{ N/mm}^2$$

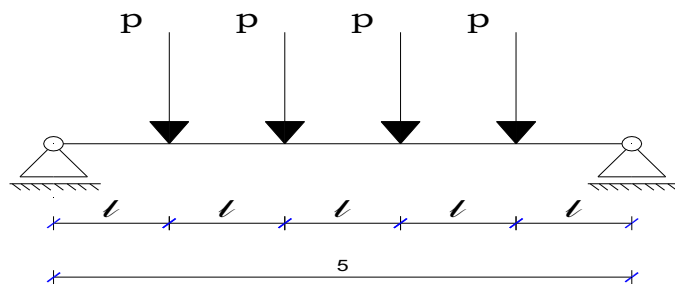
- Verifica per instabilità flessione-torsionale

$$M_{eq} = 611 \text{ kg}\cdot\text{m}$$

$$\omega_1 = 0.9 \cdot 1.4 = 1.26$$

$$\sigma = (\omega_1 \cdot M_{eq}) / W = 70 \text{ N/mm}^2 < 190 \text{ N/mm}^2$$

Trave HEA 180



$$P_p = 35.5 \text{ kg/m}$$

$$p = 150 + 35.5 = 185.5 \text{ kg}$$

$$l = 1 \text{ m}$$

- Verifica per sollecitazioni flettenti

$$M_{\max} = 3300 \text{ kg}\cdot\text{m}$$

$$\sigma = M / W = 112.24 \text{ N/mm}^2 < 190 \text{ N/mm}^2$$

- Verifica di deformabilità:

$$f_v = 1.63 \cdot 0.9 = 14.7 \text{ mm} = l/340$$

- Verifica per sollecitazioni taglianti

$$V_{\max} = 2200 \text{ kg}$$

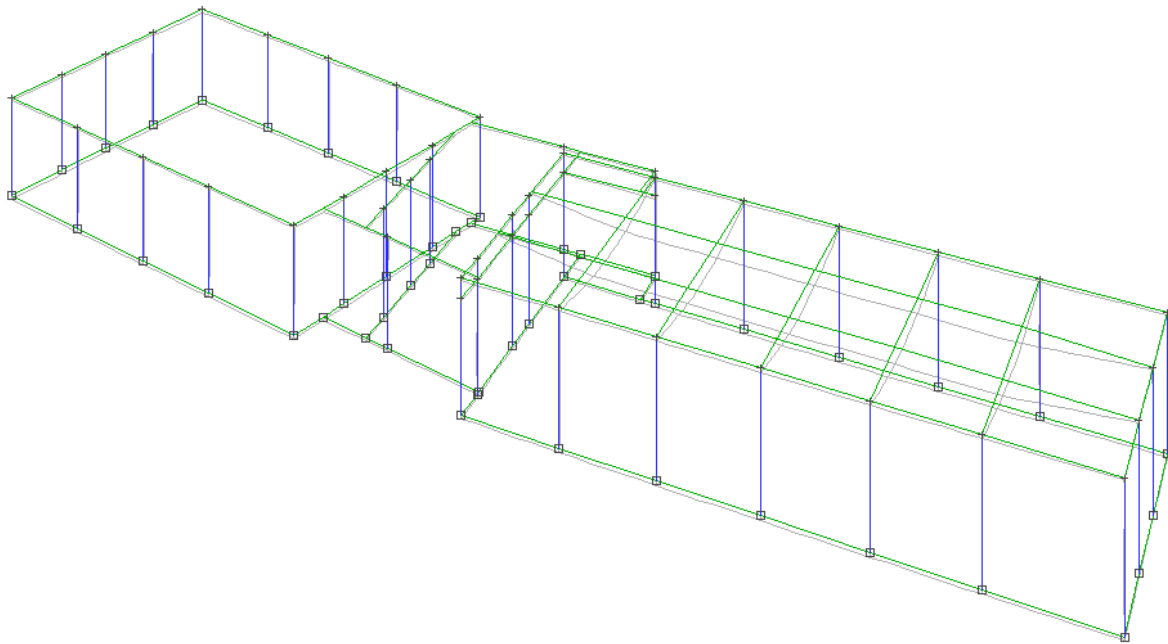
$$\tau_{\max} = V / A_w = 23.65 \text{ N/mm}^2 < 109 \text{ N/mm}^2$$

- Verifica per instabilità flessione-torsionale

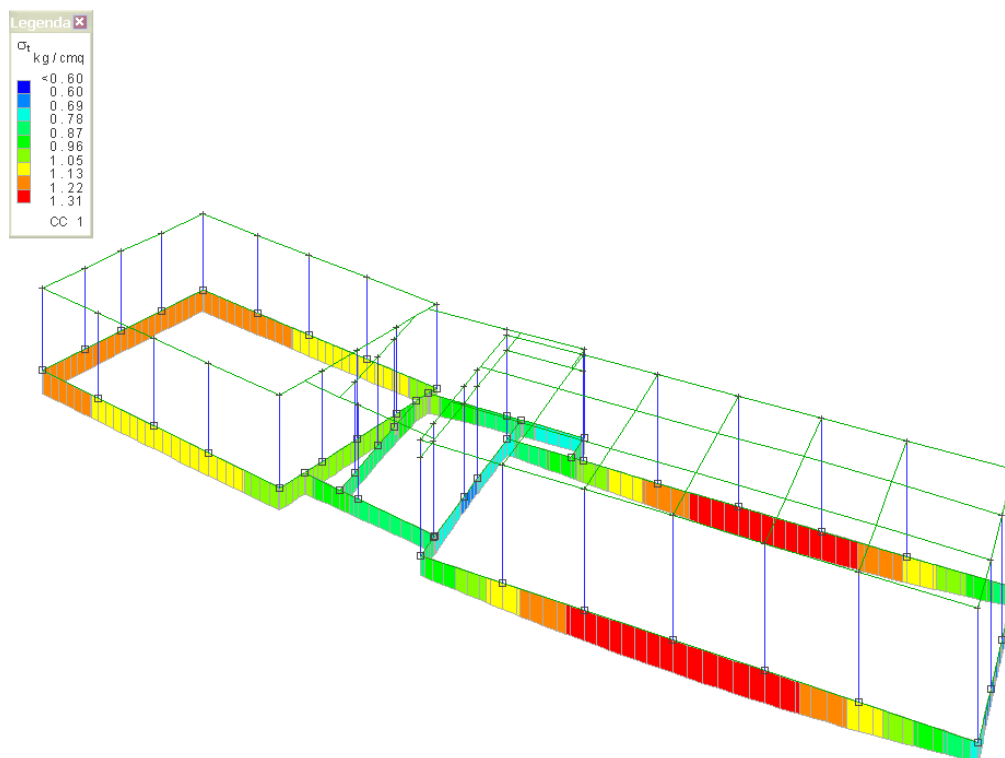
$$M_{\text{eq}} = 2475 \text{ kg}\cdot\text{m}$$

$$\omega_1 = 1.12 \cdot 1.4 = 1.568$$

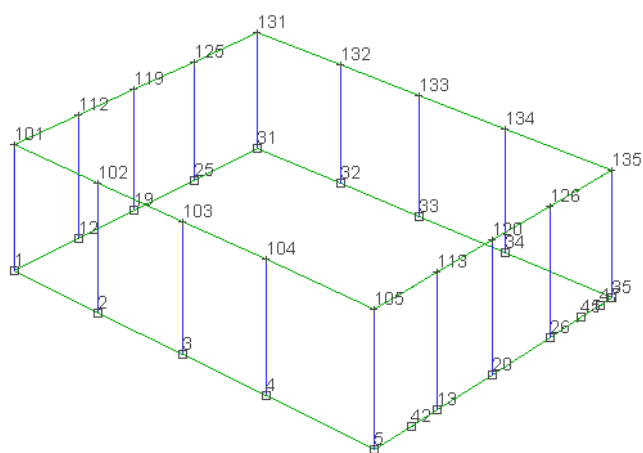
$$\sigma = (\omega_1 \cdot M_{\text{eq}}) / W = 132 \text{ N/mm}^2 < 190 \text{ N/mm}^2$$



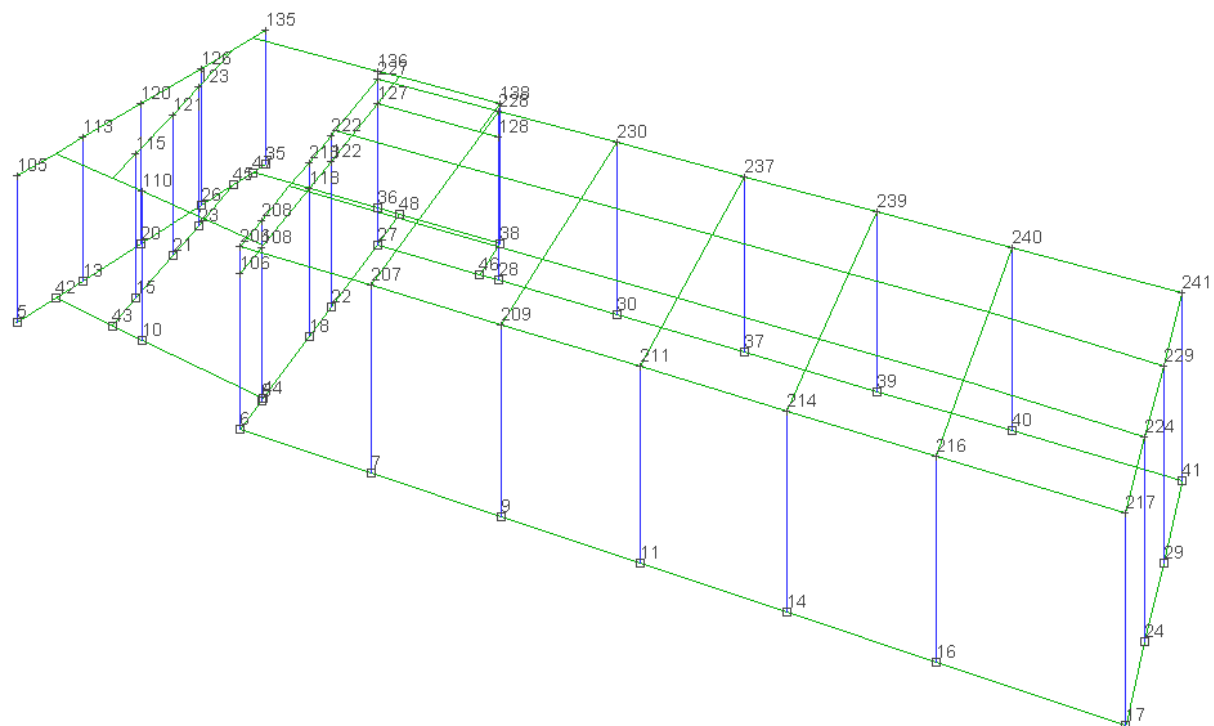
deformata elastica



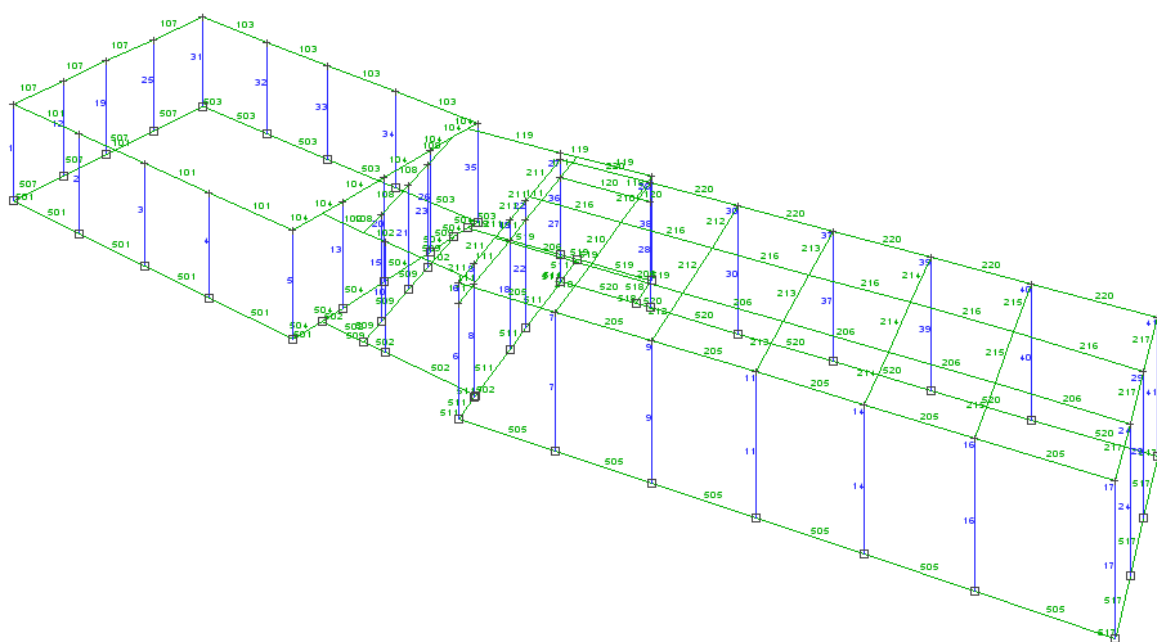
pressioni sul terreno



numerazione nodi



numerazione nodi



numerazione aste

6 TABULATI

Introduzione

Sistemi di riferimento

Le coordinate, i carichi concentrati, i cedimenti, le reazioni vincolari e gli spostamenti dei NODI sono riferiti ad una terna destra cartesiana globale con l'asse Z verticale rivolto verso l'alto.

I carichi in coordinate locali e le sollecitazioni delle ASTE sono riferite ad una terna destra cartesiana locale così definita:

- origine nel nodo iniziale dell'asta;
- asse X coincidente con l'asse dell'asta e con verso dal nodo iniziale al nodo finale;

immaginando la trave a sezione rettangolare l'asse Y è parallelo alla base e l'asse Z è parallelo all'altezza. La rotazione dell'asta comporta quindi una rotazione di tutta la terna locale.

Si può immaginare la terna locale di un'asta comunque disposta nello spazio come derivante da quella globale dopo una serie di trasformazioni:

- una rotazione intorno all'asse Z che porti l'asse X a coincidere con la proiezione dell'asse dell'asta sul piano orizzontale;
- una traslazione lungo il nuovo asse X così definito in modo da portare l'origine a coincidere con la proiezione del nodo iniziale dell'asta sul piano orizzontale;
- una traslazione lungo l'asse Z che porti l'origine a coincidere con il nodo iniziale dell'asta;
- una rotazione intorno all'asse Y così definito che porti l'asse X a coincidere con l'asse dell'asta;
- una rotazione intorno all'asse X così definito pari alla rotazione dell'asta.

In pratica le travi prive di rotazione avranno sempre l'asse Z rivolto verso l'alto e l'asse Y nel piano del solaio, mentre i pilastri privi di rotazione avranno l'asse Y parallelo all'asse Y globale e l'asse Z parallelo ma controverso all'asse X globale. Da notare quindi che per i pilastri la "base" è il lato parallelo a Y.

Le sollecitazioni ed i carichi in coordinate locali negli ELEMENTI BIDIMENSIONALI e nei MURI sono riferiti ad una terna destra cartesiana locale così definita:

- origine nel primo nodo dell'elemento;
- asse X coincidente con la congiungente il primo ed il secondo nodo dell'elemento;
- asse Y definito come prodotto vettoriale fra il versore dell'asse X e il versore della congiungente il primo e il quarto nodo. Asse Z a formare con gli altri due una terna destrorsa.

Praticamente un elemento verticale con l'asse X locale coincidente con l'asse X globale ha anche gli altri assi locali coincidenti con quelli globali.

Rotazioni e momenti

Seguendo il principio adottato per tutti i carichi che sono positivi se CONTROVERSI agli assi, anche i momenti concentrati e le rotazioni impresse in coordinate globali risultano positivi se CONTROVERSI al segno positivo delle rotazioni. Il segno positivo dei momenti e delle rotazioni è quello orario per l'osservatore posto nell'origine: X ruota su Y, Y ruota su Z, Z ruota su X. In pratica è sufficiente adottare la regola della mano destra: col pollice rivolto nella direzione dell'asse, la rotazione che porta a chiudere il palmo della mano corrisponde al segno positivo.

Unità di misura

Le unità di misura adottate sono le seguenti:

- lunghezze : m
- forze : kg
- masse : kg massa
- temperature : gradi centigradi
- angoli : gradi sessadecimali o radianti

Geometria

Elenco vincoli nodi

Simbologia

Vn	= Numero del vincolo nodo
Comm.	= Commento
Sx	= Spostamento in dir. X (L=libero, B=bloccato)
Sy	= Spostamento in dir. Y (L=libero, B=bloccato)
Sz	= Spostamento in dir. Z (L=libero, B=bloccato)
Rx	= Rotazione intorno all'asse X (L=libera, B=bloccata)
Ry	= Rotazione intorno all'asse Y (L=libera, B=bloccata)
Rz	= Rotazione intorno all'asse Z (L=libera, B=bloccata)
RL	= Rotazione libera
Ly	= Lunghezza (dir. Y locale)
Lz	= Larghezza (dir. Z locale)
Kt	= Coeff. di sottofondo su suolo elastico alla Winkler

Vn	Comm.	Sx	Sy	Sz	Rx	Ry	Rz	RL	Ly	Lz	Kt
									<m>	<m>	<kg/cmc>

1	Libero	L	L	L	L	L	L				
3	El. sew 110001	B	B	L	L	L	B				

Elenco nodi

Simbologia

Nodo	= Numero del nodo
X	= Coordinata X del nodo
Y	= Coordinata Y del nodo
Z	= Coordinata Z del nodo

Imp. = Numero dell'impalcato

Vn = Numero del vincolo nodo

Nodo X Y Z Imp. Vn
 <m> <m> <m>

-49	38.11	11.77	4.91	2	1
-48	34.79	11.03	4.91	2	1
-47	31.37	10.27	4.91	2	1
-46	27.96	9.51	4.91	2	1
-45	24.64	8.77	4.91	2	1
-44	38.91	8.19	4.91	2	1
-43	21.13	7.99	4.91	2	1
-42	35.59	7.45	4.91	2	1
-41	32.17	6.69	4.91	2	1
-40	28.75	5.93	4.91	2	1
-39	25.43	5.19	4.91	2	1
-38	21.92	4.41	4.91	2	1
-37	41.32	16.23	4.16	1	1
-36	37.31	15.34	4.16	1	1
-35	34.00	14.61	4.16	1	1
-34	30.58	13.85	4.16	1	1
-33	19.90	13.52	4.16	1	1
-32	27.16	13.09	4.16	1	1
-31	15.35	12.51	4.16	0	1
-30	42.18	12.35	4.16	1	1
-29	23.30	12.23	4.16	1	1
-28	15.35	11.46	4.16	0	1
-27	42.94	8.92	4.16	1	1
-26	43.70	5.50	4.16	1	1
-25	39.70	4.61	4.16	1	1
-24	36.38	3.87	4.16	1	1
-23	32.97	3.11	4.16	1	1
-22	22.35	2.49	4.16	1	1
-21	17.34	2.49	4.16	0	1
-20	15.35	2.49	4.16	0	1
-19	29.55	2.35	4.16	1	1
-18	26.23	1.61	4.16	1	1
-17	41.34	16.14	0.00	0	3
-16	22.77	14.16	0.00	0	3
-15	19.99	13.54	0.00	0	3
-14	15.25	13.20	0.00	0	3
-13	0.45	13.20	0.00	0	3
-12	15.45	12.53	0.00	0	3
-11	23.28	12.33	0.00	0	3
-10	20.31	11.67	0.00	0	3
-9	20.35	11.47	0.00	0	3
-8	15.37	11.37	0.00	0	3
-7	43.68	5.59	0.00	0	3
-6	17.32	2.59	0.00	0	3

-5	22.25	2.49	0.00	0	3
-4	15.45	2.49	0.00	0	3
-3	22.69	0.93	0.00	0	3
-2	15.25	0.70	0.00	0	3
-1	0.45	0.70	0.00	0	3
1	0.35	0.70	0.00	0	3
2	4.17	0.70	0.00	0	3
3	7.77	0.70	0.00	0	3
4	11.17	0.70	0.00	0	3
5	15.35	0.70	0.00	0	3
6	22.72	0.83	0.00	0	3
7	26.23	1.61	0.00	0	3
8	22.38	2.34	0.00	0	3
9	29.55	2.35	0.00	0	3
10	18.35	2.49	0.00	0	3
11	32.97	3.11	0.00	0	3
12	0.35	3.80	0.00	0	3
13	15.35	3.80	0.00	0	3
14	36.38	3.87	0.00	0	3
15	16.98	4.11	0.00	0	3
16	39.70	4.61	0.00	0	3
17	43.70	5.50	0.00	0	3
18	21.58	5.95	0.00	0	3
19	0.35	6.60	0.00	0	3
20	15.35	6.60	0.00	0	3
21	16.40	6.75	0.00	0	3
22	21.19	7.69	0.00	0	3
23	15.97	8.68	0.00	0	3
24	42.94	8.92	0.00	0	3
25	0.35	9.75	0.00	0	3
26	15.35	9.75	0.00	0	3
27	20.33	11.57	0.00	0	3
28	23.84	12.35	0.00	0	3
29	42.18	12.35	0.00	0	3
30	27.16	13.09	0.00	0	3
31	0.35	13.20	0.00	0	3
32	4.17	13.20	0.00	0	3
33	7.57	13.20	0.00	0	3
34	11.17	13.20	0.00	0	3
35	15.35	13.20	0.00	0	3
36	19.21	13.37	0.00	0	3
37	30.58	13.85	0.00	0	3
38	22.86	14.18	0.00	0	3
39	34.00	14.61	0.00	0	3
40	37.31	15.34	0.00	0	3
41	41.32	16.23	0.00	0	3
42	15.35	2.49	0.00	0	3
43	17.34	2.49	0.00	0	3
44	22.35	2.49	0.00	0	3
45	15.35	11.46	0.00	0	3

46	23.30	12.23	0.00	0	3
47	15.35	12.51	0.00	0	3
48	19.90	13.52	0.00	0	3
101	0.35	0.70	4.16	0	1
102	4.17	0.70	4.16	0	1
103	7.77	0.70	4.16	0	1
104	11.17	0.70	4.16	0	1
105	15.35	0.70	4.16	0	1
106	22.72	0.83	4.16	1	1
108	22.38	2.34	4.16	1	1
110	18.35	2.49	4.16	1	1
112	0.35	3.80	4.16	0	1
113	15.35	3.80	4.16	0	1
115	16.98	4.11	4.16	1	1
118	21.58	5.95	4.16	1	1
119	0.35	6.60	4.16	0	1
120	15.35	6.60	4.16	0	1
121	16.40	6.75	4.16	1	1
122	21.19	7.69	4.16	1	1
123	15.97	8.68	4.16	1	1
125	0.35	9.75	4.16	0	1
126	15.35	9.75	4.16	0	1
127	20.33	11.57	4.16	1	1
128	23.84	12.35	4.16	1	1
131	0.35	13.20	4.16	0	1
132	4.17	13.20	4.16	0	1
133	7.57	13.20	4.16	0	1
134	11.17	13.20	4.16	0	1
135	15.35	13.20	4.16	0	1
136	19.21	13.37	4.16	1	1
138	22.86	14.18	4.16	1	1
206	22.72	0.83	4.91	2	1
207	26.23	1.61	4.91	2	1
208	22.38	2.34	4.91	2	1
209	29.55	2.35	4.91	2	1
211	32.97	3.11	4.91	2	1
214	36.38	3.87	4.91	2	1
216	39.70	4.61	4.91	2	1
217	43.70	5.50	4.91	2	1
218	21.58	5.95	4.91	2	1
222	21.19	7.69	4.91	2	1
224	42.94	8.92	4.91	2	1
227	20.33	11.57	4.91	2	1
228	23.84	12.35	4.91	2	1
229	42.18	12.35	4.91	2	1
230	27.16	13.09	4.91	2	1
237	30.58	13.85	4.91	2	1
239	34.00	14.61	4.91	2	1
240	37.31	15.34	4.91	2	1
241	41.32	16.23	4.91	2	1

Elenco materiali

Simbologia

Mat. = Numero del materiale
 Comm. = Commento
 P = Peso specifico
 E = Modulo elastico
 G = Modulo elastico tangenziale
 ν = Coeff. di Poisson
 α = Coeff. di dilatazione termica

Mat.	Comm.	P <kg/mc>	E <kg/cm ² >	G <kg/cm ² >	ν	α
1	Calcestruzzo	2500	300000.00	130000.00	0.1	1.000000E-005
4	Legname a media elasticità 460		120000.00	7500.00	0.39	4.000000E-006

Elenco sezioni aste

Simbologia

Sez. = Numero della sezione
 Comm. = Commento
 Tipo = Tipologia
 2C = Doppia C lato labbri
 2Cdx = Doppia C lato costola
 2I = Doppia I
 2L = Doppia L lato labbri
 2Ldx = Doppia L lato costole
 C = C
 Cdx = C destra
 Cir. = Circolare
 Cir.c = Circolare cava
 I = I
 L = L
 Ldx = L destra
 Om. = Omega
 Pg = Pi greco
 Pr = Poligono regolare
 Prc = Poligono regolare cavo
 Pc = Per coordinate
 Ia = Inerzie assegnate
 R = Rettangolare
 Rc = Rettangolare cava
 T = T
 U = U
 Ur = U rovescia
 V = V
 Vr = V rovescia
 Z = Z
 Zdx = Z destra

Ts	= T stondata
Ls	= L stondata
Cs	= C stondata
Is	= I stondata
Dis.	= Disegnata
Me	= Membratura
G	= Generica
T	= Trave
P	= Pilastro
Ver.	= Verifica prevista
N	= Nessuna
C	= Cemento armato
A	= Acciaio
L	= Legno
B	= Base
b	= Base inferiore
H	= Altezza
h	= Altezza parte inf.
Ma	= Numero del materiale
C	= Numero del criterio di progetto
Ccol	= Numero del criterio di progetto collegamento

Sez. Comm.	Tipo	Me	Ver.	B	b	H	h	Ma	C	Ccol
					<cm>	<cm>	<cm>	<cm>		
2 Tr rov B=110	T	T	C	40.00	110.00	90.00	40.00	1	1	
4 Pil 50x25	R	P	C	50.00		25.00		1	5	
5 Pil 60x25	R	P	C	60.00		25.00		1	5	
6 Pil 35x25	R	P	C	35.00		25.00		1	1	
7 Pil 25x25	R	P	C	25.00		25.00		1	1	
8 Tr rov B=80	T	T	C	40.00	80.00	90.00	40.00	1	1	
9 Trave copertura locale accessori 40X24	R	T	C	40.00		24.00		1	2	
10 BxH= 18x92	R	T	L	18.00		92.00		4	3	
12 Trave cop refettorio	Ldx	T	C	90.00	25.00	20.00	40.00	1	2	
13 Trave cop cucina	Ldx	T	C	90.00	25.00	20.00	60.00	1	2	
15 Pil 50x25	R	P	C	50.00		25.00		1	1	
16 Pil 60x25	R	P	C	25.00		25.00		1	5	
17 Trave copertura locale accessori 25X24	R	T	C	25.00		24.00		1	2	

Elenco vincoli aste

Simbologia

Va = Numero del vincolo asta

Comm. = Commento

Tipo = Tipologia

SVI = Definizione di vincolamenti interni

ELA = Vincolo su suolo elastico alla Winkler

BIE-RTC = Biella resistente a trazione e a compressione

BIE-RC = Biella resistente solo a compressione

BIE-RT = Biella resistente solo a trazione

Ni = Sforzo normale nodo iniziale (0=sbloccato, 1=bloccato)

Tyi = Taglio in dir. Y locale nodo iniziale (0=sbloccato, 1=bloccato)

Tzi = Taglio in dir. Z locale nodo iniziale (0=sbloccato, 1=bloccato)

Mxi = Momento intorno all'asse X locale nodo iniziale (0=sbloccato, 1=bloccato)

Myi = Momento intorno all'asse Y locale nodo iniziale (0=sbloccato, 1=bloccato)

Mzi = Momento intorno all'asse Z locale nodo iniziale (0=sbloccato, 1=bloccato)

Nf = Sforzo normale nodo finale (0=sbloccato, 1=bloccato)

Tyf = Taglio in dir. Y locale nodo finale (0=sbloccato, 1=bloccato)

Tzf = Taglio in dir. Z locale nodo finale (0=sbloccato, 1=bloccato)

Mxf = Momento intorno all'asse X locale nodo finale (0=sbloccato, 1=bloccato)

Myf = Momento intorno all'asse Y locale nodo finale (0=sbloccato, 1=bloccato)

Mzf = Momento intorno all'asse Z locale nodo finale (0=sbloccato, 1=bloccato)

Kt = Coeff. di sottofondo su suolo elastico alla Winkler

Va	Comm.	Tipo	Ni	Tyi	Tzi	Mxi	Myi	Mzi	Nf	Tyf	Tzf	Mxf	Myf	Mzf	Kt
															<kg/cmc>
1	Inc+Inc	SVI	1	1	1	1	1	1	1	1	1	1	1	1	
2	Inc+Cer	SVI	1	1	1	1	1	1	1	1	1	0	0	0	
4	Cer+Cer	SVI	1	1	1	0	0	0	1	1	1	1	0	0	
5	Inc+CerY	SVI	1	1	1	1	1	1	1	1	1	1	0	1	
6	CerY+Inc	SVI	1	1	1	1	0	1	1	1	1	1	1	1	
8	Inc+CerZ	SVI	1	1	1	1	1	1	1	1	1	1	1	0	
30	Kw 2	ELA													2.04
31	Biella	BIE-RTC													
32	CerY-Cer	SVI	1	1	1	1	0	1	1	1	1	0	0	0	

Elenco aste

Simbologia

Asta = Numero dell'asta

N1 = Nodo iniziale

N2 = Nodo finale

Sez. = Numero della sezione

Va = Numero del vincolo asta

Par. = Numero dei parametri aggiuntivi

Rot. = Rotazione

FF = Filo fisso

Dy1 = Scost. filo fisso Y1

Dy2 = Scost. filo fisso Y2

Dz1 = Scost. filo fisso Z1

Dz2 = Scost. filo fisso Z2

Ast	N1	N2	Sez.	Va	Par.	Rot.	FF	Dy1	Dy2	Dz1	Dz2
a						<grad>		<cm>	<cm>	<cm>	<cm>
1	1	101	15	1		90.00	33	0.00	0.00	0.00	0.00
2	2	102	6	32		90.00	33	0.00	0.00	0.00	0.00
3	3	103	6	32		90.00	33	0.00	0.00	0.00	0.00

4	4	104 6	32	90.00	33 0.00	0.00	0.00	0.00
5	5	105 15	1	90.00	11 0.00	0.00	0.00	0.00
6	6	106 5	1	102.50	33 0.00	0.00	0.00	0.00
6	106	206 16	1	102.50	33 0.00	0.00	0.00	0.00
7	7	-18 4	1	102.50	33 0.00	0.00	0.00	0.00
7	-18	207 4	8	102.50	33 0.00	0.00	0.00	0.00
8	8	108 6	8	12.50	11 0.00	0.00	0.00	0.00
8	108	208 6	8	12.50	11 0.00	0.00	0.00	0.00
9	9	-19 4	1	102.50	33 0.00	0.00	0.00	0.00
9	-19	209 4	8	102.50	33 0.00	0.00	0.00	0.00
10	10	110 6	32	90.00	33 0.00	0.00	0.00	0.00
11	11	-23 4	1	102.50	33 0.00	0.00	0.00	0.00
11	-23	211 4	8	102.50	33 0.00	0.00	0.00	0.00
12	12	112 6	32	0.00	11 0.00	0.00	0.00	0.00
13	13	113 6	32	0.00	77 0.00	0.00	0.00	0.00
14	14	-24 4	1	102.50	33 0.00	0.00	0.00	0.00
14	-24	214 4	8	102.50	33 0.00	0.00	0.00	0.00
15	15	115 7	31	12.50	11 0.00	0.00	0.00	0.00
16	16	-25 4	1	102.50	33 0.00	0.00	0.00	0.00
16	-25	216 4	8	102.50	33 0.00	0.00	0.00	0.00
17	17	-26 5	1	102.50	11 0.00	0.00	0.00	0.00
17	-26	217 16	1	102.50	11 0.00	0.00	0.00	0.00
18	18	118 15	8	12.50	11 0.00	0.00	0.00	0.00
18	118	218 15	8	12.50	11 0.00	0.00	0.00	0.00
19	19	119 6	32	0.00	11 0.00	0.00	0.00	0.00
20	20	120 6	32	0.00	77 0.00	0.00	0.00	0.00
21	21	121 7	31	12.50	11 0.00	0.00	0.00	0.00
22	22	122 15	8	12.50	11 0.00	0.00	0.00	0.00
22	122	222 15	8	12.50	11 0.00	0.00	0.00	0.00
23	23	123 7	31	12.50	11 0.00	0.00	0.00	0.00
24	24	-27 4	1	12.50	77 0.00	0.00	0.00	0.00
24	-27	224 4	8	12.50	77 0.00	0.00	0.00	0.00
25	25	125 6	32	0.00	11 0.00	0.00	0.00	0.00
26	26	126 6	32	0.00	77 0.00	0.00	0.00	0.00
27	27	127 5	1	102.50	99 0.00	0.00	0.00	0.00
27	127	227 16	1	102.50	99 0.00	0.00	0.00	0.00
28	28	128 4	1	102.50	99 0.00	0.00	0.00	0.00
28	128	228 4	8	102.50	99 0.00	0.00	0.00	0.00
29	29	-30 4	1	12.50	77 0.00	0.00	0.00	0.00
29	-30	229 4	8	12.50	77 0.00	0.00	0.00	0.00
30	30	-32 4	1	102.50	99 0.00	0.00	0.00	0.00
30	-32	230 4	8	102.50	99 0.00	0.00	0.00	0.00
31	31	131 15	1	90.00	99 0.00	0.00	0.00	0.00
32	32	132 6	32	90.00	99 0.00	0.00	0.00	0.00
33	33	133 6	32	90.00	99 0.00	0.00	0.00	0.00
34	34	134 6	32	90.00	99 0.00	0.00	0.00	0.00
35	35	135 15	1	90.00	77 0.00	0.00	0.00	0.00
36	36	136 7	31	12.50	33 0.00	0.00	0.00	0.00
37	37	-34 4	1	102.50	99 0.00	0.00	0.00	0.00
37	-34	237 4	8	102.50	99 0.00	0.00	0.00	0.00

38	38	138 7	31	12.50	33 0.00	0.00	0.00	0.00
39	39	-35 4	1	102.50	99 0.00	0.00	0.00	0.00
39	-35	239 4	8	102.50	99 0.00	0.00	0.00	0.00
40	40	-36 4	1	102.50	99 0.00	0.00	0.00	0.00
40	-36	240 4	8	102.50	99 0.00	0.00	0.00	0.00
41	41	-37 5	1	102.50	77 0.00	0.00	0.00	0.00
41	-37	241 16	1	102.50	77 0.00	0.00	0.00	0.00
101	101	102 13	1	0.00	77 0.00	0.00	-40.00	-40.00
101	102	103 13	1	0.00	77 0.00	0.00	-40.00	-40.00
101	103	104 13	1	0.00	77 0.00	0.00	-40.00	-40.00
101	104	105 13	1	0.00	77 0.00	0.00	-40.00	-40.00
102	-20	-21 9	1	0.00	11 0.00	0.00	0.00	0.00
102	-21	110 9	1	0.00	11 0.00	0.00	0.00	0.00
102	110	-22 9	2	0.00	11 0.00	0.00	0.00	0.00
103	132	131 13	1	0.00	77 0.00	0.00	-40.00	-40.00
103	133	132 13	1	0.00	77 0.00	0.00	-40.00	-40.00
103	134	133 13	1	0.00	77 0.00	0.00	-40.00	-40.00
103	135	134 13	1	0.00	77 0.00	0.00	-40.00	-40.00
104	105	-20 13	1	0.00	77 0.00	0.00	-40.00	-40.00
104	-20	113 13	1	0.00	77 0.00	0.00	-40.00	-40.00
104	113	120 13	1	0.00	77 0.00	0.00	-40.00	-40.00
104	120	126 13	1	0.00	77 0.00	0.00	-40.00	-40.00
104	126	-28 13	1	0.00	77 0.00	0.00	-40.00	-40.00
104	-28	-31 13	1	0.00	77 0.00	0.00	-40.00	-40.00
104	-31	135 13	1	0.00	77 0.00	0.00	-40.00	-40.00
107	112	101 13	1	0.00	77 0.00	0.00	-40.00	-40.00
107	119	112 13	1	0.00	77 0.00	0.00	-40.00	-40.00
107	125	119 13	1	0.00	77 0.00	0.00	-40.00	-40.00
107	131	125 13	1	0.00	77 0.00	0.00	-40.00	-40.00
108	115	-21 9	1	0.00	11 -7.50	-7.50	0.00	0.00
108	121	115 9	1	0.00	11 -7.50	-7.50	0.00	0.00
108	123	121 9	1	0.00	11 -7.50	-7.50	0.00	0.00
108	-28	123 9	1	0.00	11 -7.50	-7.50	0.00	0.00
111	106	108 17	1	0.00	11 -25.00	-25.00	0.00	0.00
111	108	-22 9	1	0.00	11 -25.00	-25.00	0.00	0.00
111	-22	118 9	1	0.00	11 -25.00	-25.00	0.00	0.00
111	118	122 9	1	0.00	11 -25.00	-25.00	0.00	0.00
111	122	127 9	1	0.00	11 -25.00	-25.00	0.00	0.00
111	127	-33 9	1	0.00	11 -25.00	-25.00	0.00	0.00
118	138	-29 9	1	0.00	33 25.00	25.00	0.00	0.00
119	-31	136 9	1	0.00	33 0.00	0.00	0.00	0.00
119	136	-33 9	1	0.00	33 0.00	0.00	0.00	0.00
119	-33	138 9	1	0.00	33 0.00	0.00	0.00	0.00
120	127	-29 9	1	0.00	11 -25.00	-25.00	0.00	0.00
120	-29	128 17	1	0.00	11 -25.00	-25.00	0.00	0.00
205	206	207 12	1	0.00	77 0.00	0.00	0.00	0.00
205	207	209 12	1	0.00	77 0.00	0.00	0.00	0.00
205	209	211 12	1	0.00	77 0.00	0.00	0.00	0.00
205	211	214 12	1	0.00	77 0.00	0.00	0.00	0.00
205	214	216 12	1	0.00	77 0.00	0.00	0.00	0.00

205	216	217	12	1	0.00	77	0.00	0.00	0.00	0.00
206	-38	-39	10	4	0.00	22	0.00	0.00	0.00	0.00
206	-39	-40	10	4	0.00	22	0.00	0.00	0.00	0.00
206	-40	-41	10	4	0.00	22	0.00	0.00	0.00	0.00
206	-41	-42	10	4	0.00	22	0.00	0.00	0.00	0.00
206	-42	-44	10	4	0.00	22	0.00	0.00	0.00	0.00
206	-44	224	10	4	0.00	22	0.00	15.00	0.00	0.00
210	-39	207	10	5	0.00	33	35.00	35.00	0.00	0.00
210	-45	-39	10	1	0.00	33	35.00	35.00	0.00	0.00
210	228	-45	10	6	0.00	33	35.00	35.00	0.00	0.00
211	208	206	12	1	0.00	77	0.00	0.00	0.00	0.00
211	-38	208	12	1	0.00	77	0.00	0.00	0.00	0.00
211	218	-38	12	1	0.00	77	0.00	0.00	0.00	0.00
211	222	218	12	1	0.00	77	0.00	0.00	0.00	0.00
211	-43	222	12	1	0.00	77	0.00	0.00	0.00	0.00
211	227	-43	12	1	0.00	77	0.00	0.00	0.00	0.00
212	-40	209	10	5	0.00	33	35.00	35.00	0.00	0.00
212	-46	-40	10	1	0.00	33	35.00	35.00	0.00	0.00
212	230	-46	10	6	0.00	33	35.00	35.00	0.00	0.00
213	-41	211	10	5	0.00	33	35.00	35.00	0.00	0.00
213	-47	-41	10	1	0.00	33	35.00	35.00	0.00	0.00
213	237	-47	10	6	0.00	33	35.00	35.00	0.00	0.00
214	-42	214	10	5	0.00	33	35.00	35.00	0.00	0.00
214	-48	-42	10	1	0.00	33	35.00	35.00	0.00	0.00
214	239	-48	10	6	0.00	33	35.00	35.00	0.00	0.00
215	-44	216	10	5	0.00	33	35.00	35.00	0.00	0.00
215	-49	-44	10	1	0.00	33	35.00	35.00	0.00	0.00
215	240	-49	10	6	0.00	33	35.00	35.00	0.00	0.00
216	-43	-45	10	4	0.00	22	0.00	0.00	0.00	0.00
216	-45	-46	10	4	0.00	22	0.00	0.00	0.00	0.00
216	-46	-47	10	4	0.00	22	0.00	0.00	0.00	0.00
216	-47	-48	10	4	0.00	22	0.00	0.00	0.00	0.00
216	-48	-49	10	4	0.00	22	0.00	0.00	0.00	0.00
216	-49	229	10	4	0.00	22	0.00	30.00	0.00	0.00
217	217	224	12	1	0.00	77	0.00	0.00	0.00	0.00
217	224	229	12	1	0.00	77	0.00	0.00	0.00	0.00
217	229	241	12	1	0.00	77	0.00	0.00	0.00	0.00
220	228	227	12	1	0.00	77	0.00	0.00	0.00	0.00
220	230	228	12	1	0.00	77	0.00	0.00	0.00	0.00
220	237	230	12	1	0.00	77	0.00	0.00	0.00	0.00
220	239	237	12	1	0.00	77	0.00	0.00	0.00	0.00
220	240	239	12	1	0.00	77	0.00	0.00	0.00	0.00
220	241	240	12	1	0.00	77	0.00	0.00	0.00	0.00
501	1	-1	2	30	0.00	11	-15.00	-15.00	0.00	0.00
501	-1	2	2	30	0.00	11	-15.00	-15.00	0.00	0.00
501	2	3	2	30	0.00	11	-15.00	-15.00	0.00	0.00
501	3	4	2	30	0.00	11	-15.00	-15.00	0.00	0.00
501	4	-2	2	30	0.00	11	-15.00	-15.00	0.00	0.00
501	-2	5	2	30	0.00	11	-15.00	-15.00	0.00	0.00
502	42	-4	2	30	0.00	11	-10.00	-10.00	0.00	0.00

502	-4	43	2	30	0.00	11	-10.00	-10.00	0.00	0.00
502	43	10	2	30	0.00	11	-10.00	-10.00	0.00	0.00
502	10	-5	2	30	0.00	11	-10.00	-10.00	0.00	0.00
502	-5	44	2	30	0.00	11	-10.00	-10.00	0.00	0.00
503	-13	31	2	30	0.00	11	-15.00	-15.00	0.00	0.00
503	32	-13	2	30	0.00	11	-15.00	-15.00	0.00	0.00
503	33	32	2	30	0.00	11	-15.00	-15.00	0.00	0.00
503	34	33	2	30	0.00	11	-15.00	-15.00	0.00	0.00
503	-14	34	2	30	0.00	11	-15.00	-15.00	0.00	0.00
503	35	-14	2	30	0.00	11	-15.00	-15.00	0.00	0.00
504	5	42	2	30	0.00	11	-15.00	-15.00	0.00	0.00
504	42	13	2	30	0.00	11	-15.00	-15.00	0.00	0.00
504	13	20	2	30	0.00	11	-15.00	-15.00	0.00	0.00
504	20	26	2	30	0.00	11	-15.00	-15.00	0.00	0.00
504	26	45	2	30	0.00	11	-15.00	-15.00	0.00	0.00
504	45	47	2	30	0.00	11	-15.00	-15.00	0.00	0.00
504	47	35	2	30	0.00	11	-15.00	-15.00	0.00	0.00
505	6	7	2	30	0.00	11	-15.00	-15.00	0.00	0.00
505	7	9	2	30	0.00	11	-15.00	-15.00	0.00	0.00
505	9	11	2	30	0.00	11	-15.00	-15.00	0.00	0.00
505	11	14	2	30	0.00	11	-15.00	-15.00	0.00	0.00
505	14	16	2	30	0.00	11	-15.00	-15.00	0.00	0.00
505	16	17	2	30	0.00	11	-15.00	-15.00	0.00	0.00
507	12	1	2	30	0.00	11	-15.00	-15.00	0.00	0.00
507	19	12	2	30	0.00	11	-15.00	-15.00	0.00	0.00
507	25	19	2	30	0.00	11	-15.00	-15.00	0.00	0.00
507	31	25	2	30	0.00	11	-15.00	-15.00	0.00	0.00
509	-6	43	8	30	0.00	11	-7.50	-7.50	0.00	0.00
509	15	-6	8	30	0.00	11	-7.50	-7.50	0.00	0.00
509	21	15	8	30	0.00	11	-7.50	-7.50	0.00	0.00
509	23	21	8	30	0.00	11	-7.50	-7.50	0.00	0.00
509	-8	23	8	30	0.00	11	-7.50	-7.50	0.00	0.00
509	45	-8	8	30	0.00	11	-7.50	-7.50	0.00	0.00
511	-3	6	2	30	0.00	11	-15.00	-15.00	0.00	0.00
511	8	-3	2	30	0.00	11	-15.00	-15.00	0.00	0.00
511	44	8	2	30	0.00	11	-15.00	-15.00	0.00	0.00
511	18	44	2	30	0.00	11	-15.00	-15.00	0.00	0.00
511	22	18	2	30	0.00	11	-15.00	-15.00	0.00	0.00
511	-9	22	2	30	0.00	11	-15.00	-15.00	0.00	0.00
511	27	-9	2	30	0.00	11	-15.00	-15.00	0.00	0.00
511	-10	27	2	30	0.00	11	-15.00	-15.00	0.00	0.00
511	48	-10	2	30	0.00	11	-15.00	-15.00	0.00	0.00
517	17	-7	2	30	0.00	11	-15.00	-15.00	0.00	0.00
517	-7	24	2	30	0.00	11	-15.00	-15.00	0.00	0.00
517	24	29	2	30	0.00	11	-15.00	-15.00	0.00	0.00
517	29	-17	2	30	0.00	11	-15.00	-15.00	0.00	0.00
517	-17	41	2	30	0.00	11	-15.00	-15.00	0.00	0.00
518	-11	46	8	30	0.00	11	-7.50	-7.50	0.00	0.00
518	38	-11	8	30	0.00	11	-7.50	-7.50	0.00	0.00
519	47	-12	2	30	0.00	33	5.00	5.00	0.00	0.00

519	-12	36	2	30	0.00	33	5.00	5.00	0.00	0.00
519	36	48	2	30	0.00	33	5.00	5.00	0.00	0.00
519	48	-15	2	30	0.00	33	5.00	5.00	0.00	0.00
519	-15	-16	2	30	0.00	33	5.00	5.00	0.00	0.00
519	-16	38	2	30	0.00	33	5.00	5.00	0.00	0.00
520	46	27	2	30	0.00	11	-15.00	-15.00	0.00	0.00
520	28	46	2	30	0.00	11	-15.00	-15.00	0.00	0.00
520	30	28	2	30	0.00	11	-15.00	-15.00	0.00	0.00
520	37	30	2	30	0.00	11	-15.00	-15.00	0.00	0.00
520	39	37	2	30	0.00	11	-15.00	-15.00	0.00	0.00
520	40	39	2	30	0.00	11	-15.00	-15.00	0.00	0.00
520	41	40	2	30	0.00	11	-15.00	-15.00	0.00	0.00

Elenco tipi solai

Simbologia

Ts	=Numero del tipo solaio
Comm.	=Commento
Qp	=Carico permanente
Qa	=Carico accidentale
Rip. ter.	=Ripartizione su aste terminali
Rip. int.	=Ripartizione su aste interne
s	=Coeff. di riduzione
φ	=Coeff.φ

Ts	Comm.	Qp <kg/mq>	Qa <kg/mq>	Rip. ter.	Rip. int.	s	φ
1	Cop. cucina	880.00	250.00	50.00	50.00	1.00	1.00
2	PT refettorio	950.00	400.00	50.00	50.00	1.00	1.00
3	Cop. refettorio	200.00	150.00	50.00	50.00	1.00	1.00
4	PT cucina	1130.00	200.00	50.00	50.00	1.00	1.00
5	PT locali accessori	1130.00	350.00	50.00	50.00	1.00	1.00

Elenco solai

Simbologia

Sol.	= Numero del solaio
Ts	= Numero del tipo solaio
Ord.	= Orditura
Nodi	= Nodi del solaio

Sol.	Ts	Ord.	Nodi <grad>
100	1	0.00	101 102 103 104 105 -20 113 120 126 -28 -31 135 134 133 132 131 125 119 112
101	3	12.50	-21 110 -22 118 122 127 -33 136 -31 -28 123 121 115
102	3	12.50	-20 -21 115 121 123 -28 126 120 113
103	3	12.50	127 -29 138 -33
200	3	102.50	-38 -39 -45 -43 222 218
201	3	102.50	-43 -45 228 227

202 3 102.50 -45 -46 230 228
 203 3 102.50 -46 -47 237 230
 204 3 102.50 -47 -48 239 237
 205 3 102.50 -48 -49 240 239
 206 3 102.50 -49 229 241 240
 207 3 102.50 -44 224 229 -49
 208 3 102.50 -42 -44 -49 -48
 209 3 102.50 -41 -42 -48 -47
 210 3 102.50 -40 -41 -47 -46
 211 3 102.50 -39 -40 -46 -45
 212 3 102.50 206 207 -39 -38 208
 213 3 102.50 207 209 -40 -39
 214 3 102.50 209 211 -41 -40
 215 3 102.50 211 214 -42 -41
 216 3 102.50 214 216 -44 -42
 217 3 102.50 216 217 224 -44
 500 4 90.00 1 -1 2 3 4 -2 5 42 13 20 26 45 47 35 -14 34 33 32 -13 31 25 19 12
 501 2 102.50 6 7 9 11 14 16 17 -7 24 29 -17 41 40 39 37 30 28 46 27 -9 22 18 44 8 -3
 502 5 102.50 43 10 -5 44 18 22 -9 27 -10 48 36 -12 47 45 -8 23 21 15 -6
 503 5 102.50 42 -4 43 -6 15 21 23 -8 45 26 20 13
 504 5 102.50 48 -15 -16 38 -11 46 27 -10

Carichi

Condizioni di carico elementari

Simbologia

CCE = Numero della condizione di carico elementare
 Comm. = Commento
 s = Coeff. di riduzione
 Mx = Moltiplicatore della massa in dir. X
 My = Moltiplicatore della massa in dir. Y
 Mz = Moltiplicatore della massa in dir. Z
 Jpx = Moltiplicatore del momento d'inerzia intorno all'asse X
 Jpy = Moltiplicatore del momento d'inerzia intorno all'asse Y
 Jpz = Moltiplicatore del momento d'inerzia intorno all'asse Z

CCE	Comm.	s	Mx	My	Mz	Jpx	Jpy	Jpz
1	Pesi propri	1.00	1.00	1.00	0.00	0.00	0.00	1.00
2	Muri perimetrali	1.00	1.00	1.00	0.00	0.00	0.00	1.00
3	Perma solai	1.00	1.00	1.00	0.00	0.00	0.00	1.00
4	Var solai	1.00	1.00	1.00	0.00	0.00	0.00	1.00
5	Vento laterale	1.00	1.00	1.00	0.00	0.00	0.00	1.00
6	Vento frontale	1.00	1.00	1.00	0.00	0.00	0.00	1.00

Elenco carichi nodi

Condizione di carico n. 1: Pesi propri**Carichi concentrati****Simbologia**

Nodo = Numero del nodo

Px = Componente X della forza applicata

Py = Componente Y della forza applicata

Pz = Componente Z della forza applicata

Mx = Momento intorno all'asse X

My = Momento intorno all'asse Y

Mz = Momento intorno all'asse Z

Nodo	Px <kg>	Py <kg>	Pz <kg>	Mx <kgm>	My <kgm>	Mz <kgm>
-43	0.00	0.00	406.00	0.00	0.00	0.00
-38	0.00	0.00	406.00	0.00	0.00	0.00
206	0.00	0.00	203.00	0.00	0.00	0.00
217	0.00	0.00	203.00	0.00	0.00	0.00
224	0.00	0.00	406.00	0.00	0.00	0.00
227	0.00	0.00	203.00	0.00	0.00	0.00
229	0.00	0.00	406.00	0.00	0.00	0.00
241	0.00	0.00	203.00	0.00	0.00	0.00

Elenco carichi aste**Condizione di carico n. 1: Pesi propri****Carichi distribuiti****Simbologia**

Asta = Numero dell'asta

N1 = Nodo iniziale

N2 = Nodo finale

S = Numero del solaio di provenienza

T = Tipo di carico

QA = Carico accidentale da solaio

QP = Carico permanente da solaio

PP = Peso proprio

M = Manuale

DC = Direzione del carico

XG,YG,ZG = secondo gli assi Globali

XL,YL,ZL = secondo gli assi Locali

Xi = Distanza iniziale

Qi = Carico iniziale

Xf = Distanza finale

Qf = Carico finale

Ast	N1	N2	S	T	DC	Xi <m>	Qi <kg/m>	Xf <m>	Qf <kg/m>
1	1	101	--	PP	ZG	0.00	312.50	4.16	312.50

2	2	102--PP ZG	0.00	218.75	4.16	218.75
3	3	103--PP ZG	0.00	218.75	4.16	218.75
4	4	104--PP ZG	0.00	218.75	4.16	218.75
5	5	105--PP ZG	0.00	312.50	4.16	312.50
6	6	106--PP ZG	0.00	375.00	4.16	375.00
6	106	206--PP ZG	0.00	156.25	0.75	156.25
7	7	-18 --PP ZG	0.00	312.50	4.16	312.50
7	-18	207--PP ZG	0.00	312.50	0.75	312.50
8	8	108--PP ZG	0.00	218.75	4.16	218.75
8	108	208--PP ZG	0.00	218.75	0.75	218.75
9	9	-19 --PP ZG	0.00	312.50	4.16	312.50
9	-19	209--PP ZG	0.00	312.50	0.75	312.50
10	10	110--PP ZG	0.00	218.75	4.16	218.75
11	11	-23 --PP ZG	0.00	312.50	4.16	312.50
11	-23	211--PP ZG	0.00	312.50	0.75	312.50
12	12	112--PP ZG	0.00	218.75	4.16	218.75
13	13	113--PP ZG	0.00	218.75	4.16	218.75
14	14	-24 --PP ZG	0.00	312.50	4.16	312.50
14	-24	214--PP ZG	0.00	312.50	0.75	312.50
15	15	115--PP ZG	0.00	156.25	4.16	156.25
16	16	-25 --PP ZG	0.00	312.50	4.16	312.50
16	-25	216--PP ZG	0.00	312.50	0.75	312.50
17	17	-26 --PP ZG	0.00	375.00	4.16	375.00
17	-26	217--PP ZG	0.00	156.25	0.75	156.25
18	18	118--PP ZG	0.00	312.50	4.16	312.50
18	118	218--PP ZG	0.00	312.50	0.75	312.50
19	19	119--PP ZG	0.00	218.75	4.16	218.75
20	20	120--PP ZG	0.00	218.75	4.16	218.75
21	21	121--PP ZG	0.00	156.25	4.16	156.25
22	22	122--PP ZG	0.00	312.50	4.16	312.50
22	122	222--PP ZG	0.00	312.50	0.75	312.50
23	23	123--PP ZG	0.00	156.25	4.16	156.25
24	24	-27 --PP ZG	0.00	312.50	4.16	312.50
24	-27	224--PP ZG	0.00	312.50	0.75	312.50
25	25	125--PP ZG	0.00	218.75	4.16	218.75
26	26	126--PP ZG	0.00	218.75	4.16	218.75
27	27	127--PP ZG	0.00	375.00	4.16	375.00
27	127	227--PP ZG	0.00	156.25	0.75	156.25
28	28	128--PP ZG	0.00	312.50	4.16	312.50
28	128	228--PP ZG	0.00	312.50	0.75	312.50
29	29	-30 --PP ZG	0.00	312.50	4.16	312.50
29	-30	229--PP ZG	0.00	312.50	0.75	312.50
30	30	-32 --PP ZG	0.00	312.50	4.16	312.50
30	-32	230--PP ZG	0.00	312.50	0.75	312.50
31	31	131--PP ZG	0.00	312.50	4.16	312.50
32	32	132--PP ZG	0.00	218.75	4.16	218.75
33	33	133--PP ZG	0.00	218.75	4.16	218.75
34	34	134--PP ZG	0.00	218.75	4.16	218.75
35	35	135--PP ZG	0.00	312.50	4.16	312.50
36	36	136--PP ZG	0.00	156.25	4.16	156.25

37	37	-34	--	PP ZG	0.00	312.50	4.16	312.50
37	-34	237	--	PP ZG	0.00	312.50	0.75	312.50
38	38	138	--	PP ZG	0.00	156.25	4.16	156.25
39	39	-35	--	PP ZG	0.00	312.50	4.16	312.50
39	-35	239	--	PP ZG	0.00	312.50	0.75	312.50
40	40	-36	--	PP ZG	0.00	312.50	4.16	312.50
40	-36	240	--	PP ZG	0.00	312.50	0.75	312.50
41	41	-37	--	PP ZG	0.00	375.00	4.16	375.00
41	-37	241	--	PP ZG	0.00	156.25	0.75	156.25
101	101	102	--	PP ZG	0.00	825.00	3.83	825.00
101	102	103	--	PP ZG	0.00	825.00	3.60	825.00
101	103	104	--	PP ZG	0.00	825.00	3.40	825.00
101	104	105	--	PP ZG	0.00	825.00	4.18	825.00
102	-20	-21	--	PP ZG	0.00	240.00	1.99	240.00
102	-21	110	--	PP ZG	0.00	240.00	1.02	240.00
102	110	-22	--	PP ZG	0.00	240.00	4.00	240.00
103	132	131	--	PP ZG	0.00	825.00	3.82	825.00
103	133	132	--	PP ZG	0.00	825.00	3.40	825.00
103	134	133	--	PP ZG	0.00	825.00	3.60	825.00
103	135	134	--	PP ZG	0.00	825.00	4.18	825.00
104	105	-20	--	PP ZG	0.00	825.00	1.79	825.00
104	-20	113	--	PP ZG	0.00	825.00	1.31	825.00
104	113	120	--	PP ZG	0.00	825.00	2.80	825.00
104	120	126	--	PP ZG	0.00	825.00	3.15	825.00
104	126	-28	--	PP ZG	0.00	825.00	1.72	825.00
104	-28	-31	--	PP ZG	0.00	825.00	1.05	825.00
104	-31	135	--	PP ZG	0.00	825.00	0.69	825.00
107	112	101	--	PP ZG	0.00	825.00	3.10	825.00
107	119	112	--	PP ZG	0.00	825.00	2.80	825.00
107	125	119	--	PP ZG	0.00	825.00	3.15	825.00
107	131	125	--	PP ZG	0.00	825.00	3.45	825.00
108	115	-21	--	PP ZG	0.00	240.00	1.66	240.00
108	121	115	--	PP ZG	0.00	240.00	2.70	240.00
108	123	121	--	PP ZG	0.00	240.00	1.97	240.00
108	-28	123	--	PP ZG	0.00	240.00	2.86	240.00
111	106	108	--	PP ZG	0.00	150.00	1.55	150.00
111	108	-22	--	PP ZG	0.00	240.00	0.15	240.00
111	-22	118	--	PP ZG	0.00	240.00	3.54	240.00
111	118	122	--	PP ZG	0.00	240.00	1.78	240.00
111	122	127	--	PP ZG	0.00	240.00	3.98	240.00
111	127	-33	--	PP ZG	0.00	240.00	2.00	240.00
118	138	-29	--	PP ZG	0.00	240.00	2.00	240.00
119	-31	136	--	PP ZG	0.00	240.00	3.96	240.00
119	136	-33	--	PP ZG	0.00	240.00	0.70	240.00
119	-33	138	--	PP ZG	0.00	240.00	3.04	240.00
120	127	-29	--	PP ZG	0.00	240.00	3.04	240.00
120	-29	128	--	PP ZG	0.00	150.00	0.56	150.00
205	206	207	--	PP ZG	0.00	700.00	3.60	700.00
205	207	209	--	PP ZG	0.00	700.00	3.40	700.00
205	209	211	--	PP ZG	0.00	700.00	3.50	700.00

205	211	214	--	PP ZG	0.00	700.00	3.50	700.00
205	214	216	--	PP ZG	0.00	700.00	3.40	700.00
205	216	217	--	PP ZG	0.00	700.00	4.10	700.00
206	-38	-39	--	PP ZG	0.00	76.18	3.60	76.18
206	-39	-40	--	PP ZG	0.00	76.18	3.40	76.18
206	-40	-41	--	PP ZG	0.00	76.18	3.50	76.18
206	-41	-42	--	PP ZG	0.00	76.18	3.50	76.18
206	-42	-44	--	PP ZG	0.00	76.18	3.40	76.18
206	-44	224	--	PP ZG	0.00	76.18	4.10	76.18
210	-39	207	--	PP ZG	0.00	76.18	3.67	76.18
210	-45	-39	--	PP ZG	0.00	76.18	3.67	76.18
210	228	-45	--	PP ZG	0.00	76.18	3.67	76.18
211	208	206	--	PP ZG	0.00	700.00	1.55	700.00
211	-38	208	--	PP ZG	0.00	700.00	2.12	700.00
211	218	-38	--	PP ZG	0.00	700.00	1.58	700.00
211	222	218	--	PP ZG	0.00	700.00	1.78	700.00
211	-43	222	--	PP ZG	0.00	700.00	0.31	700.00
211	227	-43	--	PP ZG	0.00	700.00	3.67	700.00
212	-40	209	--	PP ZG	0.00	76.18	3.67	76.18
212	-46	-40	--	PP ZG	0.00	76.18	3.67	76.18
212	230	-46	--	PP ZG	0.00	76.18	3.67	76.18
213	-41	211	--	PP ZG	0.00	76.18	3.67	76.18
213	-47	-41	--	PP ZG	0.00	76.18	3.67	76.18
213	237	-47	--	PP ZG	0.00	76.18	3.67	76.18
214	-42	214	--	PP ZG	0.00	76.18	3.67	76.18
214	-48	-42	--	PP ZG	0.00	76.18	3.67	76.18
214	239	-48	--	PP ZG	0.00	76.18	3.67	76.18
215	-44	216	--	PP ZG	0.00	76.18	3.67	76.18
215	-49	-44	--	PP ZG	0.00	76.18	3.67	76.18
215	240	-49	--	PP ZG	0.00	76.18	3.67	76.18
216	-43	-45	--	PP ZG	0.00	76.18	3.60	76.18
216	-45	-46	--	PP ZG	0.00	76.18	3.40	76.18
216	-46	-47	--	PP ZG	0.00	76.18	3.50	76.18
216	-47	-48	--	PP ZG	0.00	76.18	3.50	76.18
216	-48	-49	--	PP ZG	0.00	76.18	3.40	76.18
216	-49	229	--	PP ZG	0.00	76.18	4.11	76.18
217	217	224	--	PP ZG	0.00	700.00	3.50	700.00
217	224	229	--	PP ZG	0.00	700.00	3.52	700.00
217	229	241	--	PP ZG	0.00	700.00	3.98	700.00
220	228	227	--	PP ZG	0.00	700.00	3.60	700.00
220	230	228	--	PP ZG	0.00	700.00	3.40	700.00
220	237	230	--	PP ZG	0.00	700.00	3.50	700.00
220	239	237	--	PP ZG	0.00	700.00	3.50	700.00
220	240	239	--	PP ZG	0.00	700.00	3.40	700.00
220	241	240	--	PP ZG	0.00	700.00	4.10	700.00
501	1	-1	--	PP ZG	0.00	2000.00	0.10	2000.00
501	-1	2	--	PP ZG	0.00	2000.00	3.72	2000.00
501	2	3	--	PP ZG	0.00	2000.00	3.60	2000.00
501	3	4	--	PP ZG	0.00	2000.00	3.40	2000.00
501	4	-2	--	PP ZG	0.00	2000.00	4.08	2000.00

501	-2	5	-- PP ZG	0.00	2000.00	0.10	2000.00
502	42	-4	-- PP ZG	0.00	2000.00	0.10	2000.00
502	-4	43	-- PP ZG	0.00	2000.00	1.90	2000.00
502	43	10	-- PP ZG	0.00	2000.00	1.01	2000.00
502	10	-5	-- PP ZG	0.00	2000.00	3.90	2000.00
502	-5	44	-- PP ZG	0.00	2000.00	0.10	2000.00
503	-13	31	-- PP ZG	0.00	2000.00	0.10	2000.00
503	32	-13	-- PP ZG	0.00	2000.00	3.72	2000.00
503	33	32	-- PP ZG	0.00	2000.00	3.40	2000.00
503	34	33	-- PP ZG	0.00	2000.00	3.60	2000.00
503	-14	34	-- PP ZG	0.00	2000.00	4.08	2000.00
503	35	-14	-- PP ZG	0.00	2000.00	0.10	2000.00
504	5	42	-- PP ZG	0.00	2000.00	1.79	2000.00
504	42	13	-- PP ZG	0.00	2000.00	1.31	2000.00
504	13	20	-- PP ZG	0.00	2000.00	2.80	2000.00
504	20	26	-- PP ZG	0.00	2000.00	3.15	2000.00
504	26	45	-- PP ZG	0.00	2000.00	1.72	2000.00
504	45	47	-- PP ZG	0.00	2000.00	1.05	2000.00
504	47	35	-- PP ZG	0.00	2000.00	0.69	2000.00
505	6	7	-- PP ZG	0.00	2000.00	3.60	2000.00
505	7	9	-- PP ZG	0.00	2000.00	3.40	2000.00
505	9	11	-- PP ZG	0.00	2000.00	3.50	2000.00
505	11	14	-- PP ZG	0.00	2000.00	3.50	2000.00
505	14	16	-- PP ZG	0.00	2000.00	3.40	2000.00
505	16	17	-- PP ZG	0.00	2000.00	4.10	2000.00
507	12	1	-- PP ZG	0.00	2000.00	3.10	2000.00
507	19	12	-- PP ZG	0.00	2000.00	2.80	2000.00
507	25	19	-- PP ZG	0.00	2000.00	3.15	2000.00
507	31	25	-- PP ZG	0.00	2000.00	3.45	2000.00
509	-6	43	-- PP ZG	0.00	1700.00	0.10	1700.00
509	15	-6	-- PP ZG	0.00	1700.00	1.56	1700.00
509	21	15	-- PP ZG	0.00	1700.00	2.70	1700.00
509	23	21	-- PP ZG	0.00	1700.00	1.97	1700.00
509	-8	23	-- PP ZG	0.00	1700.00	2.76	1700.00
509	45	-8	-- PP ZG	0.00	1700.00	0.10	1700.00
511	-3	6	-- PP ZG	0.00	2000.00	0.10	2000.00
511	8	-3	-- PP ZG	0.00	2000.00	1.45	2000.00
511	44	8	-- PP ZG	0.00	2000.00	0.15	2000.00
511	18	44	-- PP ZG	0.00	2000.00	3.54	2000.00
511	22	18	-- PP ZG	0.00	2000.00	1.78	2000.00
511	-9	22	-- PP ZG	0.00	2000.00	3.88	2000.00
511	27	-9	-- PP ZG	0.00	2000.00	0.10	2000.00
511	-10	27	-- PP ZG	0.00	2000.00	0.10	2000.00
511	48	-10	-- PP ZG	0.00	2000.00	1.90	2000.00
517	17	-7	-- PP ZG	0.00	2000.00	0.10	2000.00
517	-7	24	-- PP ZG	0.00	2000.00	3.40	2000.00
517	24	29	-- PP ZG	0.00	2000.00	3.52	2000.00
517	29	-17	-- PP ZG	0.00	2000.00	3.88	2000.00
517	-17	41	-- PP ZG	0.00	2000.00	0.10	2000.00
518	-11	46	-- PP ZG	0.00	1700.00	0.10	1700.00

518	38	-11	--	PP ZG	0.00	1700.00	1.90	1700.00
519	47	-12	--	PP ZG	0.00	2000.00	0.10	2000.00
519	-12	36	--	PP ZG	0.00	2000.00	3.86	2000.00
519	36	48	--	PP ZG	0.00	2000.00	0.70	2000.00
519	48	-15	--	PP ZG	0.00	2000.00	0.10	2000.00
519	-15	-16	--	PP ZG	0.00	2000.00	2.84	2000.00
519	-16	38	--	PP ZG	0.00	2000.00	0.10	2000.00
520	46	27	--	PP ZG	0.00	2000.00	3.04	2000.00
520	28	46	--	PP ZG	0.00	2000.00	0.56	2000.00
520	30	28	--	PP ZG	0.00	2000.00	3.40	2000.00
520	37	30	--	PP ZG	0.00	2000.00	3.50	2000.00
520	39	37	--	PP ZG	0.00	2000.00	3.50	2000.00
520	40	39	--	PP ZG	0.00	2000.00	3.40	2000.00
520	41	40	--	PP ZG	0.00	2000.00	4.10	2000.00

Elenco carichi aste

Condizione di carico n. 2: Muri perimetrali

Carichi distribuiti

Ast	N1	N2	S	T	DC	Xi	Qi	Xf	Qf
α							<m> <kg/m>	<m>	<kg/m>
501	1	-1	--	MZG	0.00	968.40	0.10	968.40	
501	-1	2	--	MZG	0.00	968.40	3.72	968.40	
501	2	3	--	MZG	0.00	968.40	3.60	968.40	
501	3	4	--	MZG	0.00	968.40	3.40	968.40	
501	4	-2	--	MZG	0.00	968.40	4.08	968.40	
501	-2	5	--	MZG	0.00	968.40	0.10	968.40	
502	42	-4	--	MZG	0.00	968.40	0.10	968.40	
502	-4	43	--	MZG	0.00	968.40	1.90	968.40	
502	43	10	--	MZG	0.00	968.40	1.01	968.40	
502	10	-5	--	MZG	0.00	968.40	3.90	968.40	
502	-5	44	--	MZG	0.00	968.40	0.10	968.40	
503	-13	31	--	MZG	0.00	968.40	0.10	968.40	
503	32	-13	--	MZG	0.00	968.40	3.72	968.40	
503	33	32	--	MZG	0.00	968.40	3.40	968.40	
503	34	33	--	MZG	0.00	968.40	3.60	968.40	
503	-14	34	--	MZG	0.00	968.40	4.08	968.40	
503	35	-14	--	MZG	0.00	968.40	0.10	968.40	
504	5	42	--	MZG	0.00	968.40	1.79	968.40	
504	42	13	--	MZG	0.00	968.40	1.31	968.40	
504	13	20	--	MZG	0.00	968.40	2.80	968.40	
504	20	26	--	MZG	0.00	968.40	3.15	968.40	
504	45	47	--	MZG	0.00	968.40	1.05	968.40	
504	47	35	--	MZG	0.00	968.40	0.69	968.40	
505	6	7	--	MZG	0.00	1325.18	3.60	1325.18	
505	7	9	--	MZG	0.00	1325.18	3.40	1325.18	
505	9	11	--	MZG	0.00	1325.18	3.50	1325.18	
505	11	14	--	MZG	0.00	1325.18	3.50	1325.18	

505 14 16 --MZG 0.00 1325.18 3.40 1325.18
 505 16 17 --MZG 0.00 1325.18 4.10 1325.18
 507 12 1 --MZG 0.00 968.40 3.10 968.40
 507 19 12 --MZG 0.00 968.40 2.80 968.40
 507 25 19 --MZG 0.00 968.40 3.15 968.40
 507 31 25 --MZG 0.00 968.40 3.45 968.40
 511 -3 6 --MZG 0.00 1325.18 0.10 1325.18
 511 8 -3 --MZG 0.00 1325.18 1.45 1325.18
 511 44 8 --MZG 0.00 1325.18 0.15 1325.18
 511 22 18 --MZG 0.00 1325.18 1.78 1325.18
 511 -9 22 --MZG 0.00 1325.18 3.88 1325.18
 511 27 -9 --MZG 0.00 1325.18 0.10 1325.18
 517 17 -7 --MZG 0.00 1325.18 0.10 1325.18
 517 -7 24 --MZG 0.00 1325.18 3.40 1325.18
 517 24 29 --MZG 0.00 1325.18 3.52 1325.18
 517 29 -17 --MZG 0.00 1325.18 3.88 1325.18
 517 -17 41 --MZG 0.00 1325.18 0.10 1325.18
 518 -11 46 --MZG 0.00 968.40 0.10 968.40
 518 38 -11 --MZG 0.00 968.40 1.90 968.40
 519 47 -12 --MZG 0.00 968.40 0.10 968.40
 519 -12 36 --MZG 0.00 968.40 3.86 968.40
 519 36 48 --MZG 0.00 968.40 0.70 968.40
 519 48 -15 --MZG 0.00 968.40 0.10 968.40
 519 -15 -16 --MZG 0.00 968.40 2.84 968.40
 519 -16 38 --MZG 0.00 968.40 0.10 968.40
 520 46 27 --MZG 0.00 1325.18 3.04 1325.18
 520 30 28 --MZG 0.00 1325.18 3.40 1325.18
 520 37 30 --MZG 0.00 1325.18 3.50 1325.18
 520 39 37 --MZG 0.00 1325.18 3.50 1325.18
 520 40 39 --MZG 0.00 1325.18 3.40 1325.18
 520 41 40 --MZG 0.00 1325.18 4.10 1325.18

Elenco carichi aste

Condizione di carico n. 3: Perma solai

Carichi distribuiti

Ast	N1	N2	S	T	DC	Xi	Qi	Xf	Qf
α							<m> <kg/m>	<m> <kg/m>	<kg/m>
102	-20	-21	102	QP	ZG	0.00	42.02	1.99	0.00
102	-21	110	101	QP	ZG	0.00	105.89	1.02	84.45
102	110	-22	101	QP	ZG	0.00	84.45	4.00	0.00
104	105	-20	100	QP	ZG	0.00	6600.25	1.79	6599.82
104	-20	113	100	QP	ZG	0.00	6599.82	1.31	6599.49
104	-20	113	102	QP	ZG	1.26	163.39	1.31	162.33
104	-20	113	102	QP	ZG	0.00	189.56	1.26	163.39
104	113	120	100	QP	ZG	0.00	6599.49	2.80	6599.49
104	113	120	102	QP	ZG	2.72	104.80	2.80	103.07

104	113	120	102	QP	ZG	0.00	162.33	2.72	104.80
104	120	126	100	QP	ZG	0.00	6599.49	3.15	6599.49
104	120	126	102	QP	ZG	1.94	62.02	3.15	36.38
104	120	126	102	QP	ZG	0.00	103.07	1.94	62.02
104	126	-28	100	QP	ZG	0.00	6599.49	1.72	6599.49
104	126	-28	102	QP	ZG	0.00	36.38	1.72	0.00
104	-28	-31	100	QP	ZG	0.00	6599.49	1.05	6599.49
104	-28	-31	101	QP	ZG	0.00	476.87	1.05	454.72
104	-31	135	100	QP	ZG	0.00	6599.49	0.69	6599.49
107	112	101	100	QP	ZG	0.00	6599.49	1.31	6599.81
107	112	101	100	QP	ZG	1.31	6599.82	3.10	6600.25
107	119	112	100	QP	ZG	0.00	6599.49	2.80	6599.49
107	125	119	100	QP	ZG	0.00	6599.49	3.15	6599.49
107	131	125	100	QP	ZG	0.00	6599.49	3.45	6599.49
108	115	-21	102	QP	ZG	0.00	167.35	1.23	194.16
108	115	-21	101	QP	ZG	0.00	488.45	1.66	489.24
108	115	-21	102	QP	ZG	1.23	194.16	1.66	0.00
108	121	115	102	QP	ZG	0.00	107.34	2.65	166.27
108	121	115	101	QP	ZG	1.90	488.45	2.70	488.45
108	121	115	101	QP	ZG	0.12	488.45	1.90	488.45
108	121	115	101	QP	ZG	0.00	488.45	0.12	488.45
108	121	115	102	QP	ZG	2.65	166.27	2.70	167.35
108	123	121	102	QP	ZG	0.00	63.52	1.89	105.57
108	123	121	101	QP	ZG	0.00	488.45	1.97	488.45
108	123	121	102	QP	ZG	1.89	105.57	1.97	107.34
108	-28	123	102	QP	ZG	0.00	0.00	2.86	63.52
108	-28	123	101	QP	ZG	0.98	488.45	2.86	488.45
108	-28	123	101	QP	ZG	0.00	488.45	0.98	488.45
111	-22	118	101	QP	ZG	0.00	0.00	0.87	390.16
111	-22	118	101	QP	ZG	2.75	488.45	3.54	488.45
111	-22	118	101	QP	ZG	1.08	489.25	2.75	488.45
111	-22	118	101	QP	ZG	0.87	390.16	1.08	489.25
111	118	122	101	QP	ZG	0.00	488.45	1.78	488.45
111	122	127	101	QP	ZG	0.00	488.45	0.12	488.45
111	122	127	101	QP	ZG	2.10	488.45	3.98	488.45
111	122	127	101	QP	ZG	0.12	488.45	2.10	488.45
111	127	-33	101	QP	ZG	0.00	488.45	0.98	488.45
111	127	-33	103	QP	ZG	0.00	304.02	2.00	304.02
111	127	-33	103	QP	ZG	0.00	0.00	0.00	304.02
111	127	-33	101	QP	ZG	2.00	70.05	2.00	0.00
111	127	-33	101	QP	ZG	2.00	465.70	2.00	70.12
111	127	-33	101	QP	ZG	0.98	488.45	2.00	465.76
118	138	-29	103	QP	ZG	0.00	0.00	0.00	303.98
118	138	-29	103	QP	ZG	0.00	304.02	2.00	304.02
119	-31	136	101	QP	ZG	0.00	0.27	3.96	0.04
119	136	-33	101	QP	ZG	0.00	0.04	0.70	0.00
119	-33	138	103	QP	ZG	0.00	0.18	3.04	0.00
120	127	-29	103	QP	ZG	0.00	0.00	3.04	0.18
205	206	207	212	QP	ZG	0.00	366.67	3.60	366.67
205	206	207	212	QP	ZG	3.60	366.67	3.60	0.00

205	207	209	213	QP	ZG	0.00	366.67	3.40	366.67
205	207	209	213	QP	ZG	3.40	366.67	3.40	0.00
205	209	211	214	QP	ZG	0.00	366.67	3.50	366.67
205	209	211	214	QP	ZG	3.50	366.66	3.50	0.00
205	211	214	215	QP	ZG	0.00	366.67	3.50	366.67
205	211	214	215	QP	ZG	3.50	366.66	3.50	0.00
205	214	216	216	QP	ZG	0.00	366.67	3.40	366.67
205	214	216	216	QP	ZG	3.40	366.66	3.40	0.00
205	216	217	217	QP	ZG	0.00	366.66	4.10	350.25
205	216	217	217	QP	ZG	4.10	350.25	4.10	0.00
206	-38	-39	212	QP	ZG	0.00	0.00	0.00	211.68
206	-38	-39	200	QP	ZG	3.60	366.62	3.60	0.00
206	-38	-39	200	QP	ZG	0.00	366.67	3.60	366.67
206	-38	-39	212	QP	ZG	0.00	366.67	3.60	366.67
206	-38	-39	212	QP	ZG	0.00	211.64	0.00	366.62
206	-39	-40	213	QP	ZG	0.00	0.00	0.00	366.66
206	-39	-40	211	QP	ZG	3.40	366.66	3.40	0.00
206	-39	-40	211	QP	ZG	0.00	366.67	3.40	366.67
206	-39	-40	213	QP	ZG	0.00	366.67	3.40	366.67
206	-40	-41	214	QP	ZG	0.00	0.00	0.00	366.66
206	-40	-41	210	QP	ZG	3.50	366.66	3.50	0.00
206	-40	-41	210	QP	ZG	0.00	366.67	3.50	366.67
206	-40	-41	214	QP	ZG	0.00	366.67	3.50	366.67
206	-41	-42	215	QP	ZG	0.00	0.00	0.00	366.70
206	-41	-42	209	QP	ZG	3.50	366.66	3.50	0.00
206	-41	-42	209	QP	ZG	0.00	366.67	3.50	366.67
206	-41	-42	215	QP	ZG	0.00	366.67	3.50	366.67
206	-42	-44	216	QP	ZG	0.00	0.00	0.00	366.66
206	-42	-44	208	QP	ZG	3.40	366.66	3.40	0.00
206	-42	-44	208	QP	ZG	0.00	366.67	3.40	366.67
206	-42	-44	216	QP	ZG	0.00	366.67	3.40	366.67
206	-44	224	217	QP	ZG	0.00	0.00	0.00	366.37
206	-44	224	207	QP	ZG	4.10	351.72	4.10	0.00
206	-44	224	207	QP	ZG	0.00	366.37	4.10	351.72
206	-44	224	217	QP	ZG	0.00	366.37	4.10	349.98
210	-39	207	212	QP	ZG	0.00	0.21	3.67	0.00
210	-39	207	213	QP	ZG	0.00	0.00	3.67	0.21
210	-45	-39	200	QP	ZG	0.00	0.21	3.67	0.00
210	-45	-39	211	QP	ZG	0.00	0.00	3.67	0.21
210	228	-45	202	QP	ZG	0.00	0.00	3.67	0.21
210	228	-45	201	QP	ZG	0.00	0.21	3.67	0.00
211	208	206	212	QP	ZG	0.00	0.12	1.55	0.21
211	-38	208	212	QP	ZG	0.00	0.00	2.12	0.12
211	218	-38	200	QP	ZG	0.00	0.12	1.58	0.21
211	222	218	200	QP	ZG	0.00	0.02	1.78	0.12
211	-43	222	200	QP	ZG	0.00	0.00	0.31	0.02
211	227	-43	201	QP	ZG	0.00	0.00	3.67	0.21
212	-40	209	213	QP	ZG	0.00	0.21	3.67	0.00
212	-40	209	214	QP	ZG	0.00	0.00	3.67	0.21
212	-46	-40	211	QP	ZG	0.00	0.21	3.67	0.00

212	-46	-40	210	QP	ZG	0.00	0.00	3.67	0.21
212	230	-46	202	QP	ZG	0.00	0.21	3.67	0.00
212	230	-46	203	QP	ZG	0.00	0.00	3.67	0.21
213	-41	211	214	QP	ZG	0.00	0.21	3.67	0.00
213	-41	211	215	QP	ZG	0.00	0.00	3.67	0.21
213	-47	-41	210	QP	ZG	0.00	0.21	3.67	0.00
213	-47	-41	209	QP	ZG	0.00	0.00	3.67	0.21
213	237	-47	203	QP	ZG	0.00	0.21	3.67	0.00
213	237	-47	204	QP	ZG	0.00	0.00	3.67	0.21
214	-42	214	215	QP	ZG	0.00	0.21	3.67	0.00
214	-42	214	216	QP	ZG	0.00	0.00	3.67	0.21
214	-48	-42	209	QP	ZG	0.00	0.21	3.67	0.00
214	-48	-42	208	QP	ZG	0.00	0.00	3.67	0.21
214	239	-48	204	QP	ZG	0.00	0.21	3.67	0.00
214	239	-48	205	QP	ZG	0.00	0.00	3.67	0.21
215	-44	216	216	QP	ZG	0.00	0.21	3.67	0.00
215	-44	216	217	QP	ZG	0.00	0.00	3.67	0.21
215	-49	-44	208	QP	ZG	0.00	0.21	3.67	0.00
215	-49	-44	207	QP	ZG	0.00	0.00	3.67	0.21
215	240	-49	205	QP	ZG	0.00	0.21	3.67	0.00
215	240	-49	206	QP	ZG	0.00	0.00	3.67	0.21
216	-43	-45	200	QP	ZG	0.00	0.00	0.00	31.08
216	-43	-45	201	QP	ZG	3.60	366.67	3.60	0.00
216	-43	-45	201	QP	ZG	0.00	366.67	3.60	366.67
216	-43	-45	200	QP	ZG	0.00	366.67	3.60	366.67
216	-43	-45	200	QP	ZG	0.00	209.14	0.00	366.77
216	-43	-45	200	QP	ZG	0.00	31.09	0.00	209.10
216	-45	-46	211	QP	ZG	0.00	0.00	0.00	366.66
216	-45	-46	202	QP	ZG	3.40	366.66	3.40	0.00
216	-45	-46	202	QP	ZG	0.00	366.67	3.40	366.67
216	-45	-46	211	QP	ZG	0.00	366.67	3.40	366.67
216	-46	-47	210	QP	ZG	0.00	0.00	0.00	366.70
216	-46	-47	203	QP	ZG	3.50	366.66	3.50	0.00
216	-46	-47	203	QP	ZG	0.00	366.67	3.50	366.67
216	-46	-47	210	QP	ZG	0.00	366.67	3.50	366.67
216	-47	-48	209	QP	ZG	0.00	0.00	0.00	366.66
216	-47	-48	204	QP	ZG	3.50	366.66	3.50	0.00
216	-47	-48	204	QP	ZG	0.00	366.67	3.50	366.67
216	-47	-48	209	QP	ZG	0.00	366.67	3.50	366.67
216	-48	-49	208	QP	ZG	0.00	0.00	0.00	366.66
216	-48	-49	205	QP	ZG	3.40	366.66	3.40	0.00
216	-48	-49	205	QP	ZG	0.00	366.67	3.40	366.67
216	-48	-49	208	QP	ZG	0.00	366.67	3.40	366.67
216	-49	229	207	QP	ZG	0.00	0.00	0.00	365.63
216	-49	229	206	QP	ZG	4.11	396.63	4.11	0.00
216	-49	229	206	QP	ZG	0.00	365.63	4.11	396.61
216	-49	229	207	QP	ZG	0.00	365.62	4.11	351.00
217	217	224	217	QP	ZG	0.00	0.00	3.50	0.20
217	224	229	207	QP	ZG	0.00	0.00	3.52	0.20
217	229	241	206	QP	ZG	0.00	0.00	3.98	0.23

220	228	227	201	QP ZG	0.00	366.67	3.60	366.67
220	228	227	201	QP ZG	3.60	366.66	3.60	0.00
220	230	228	202	QP ZG	0.00	366.67	3.40	366.67
220	230	228	202	QP ZG	3.40	366.67	3.40	0.00
220	237	230	203	QP ZG	0.00	366.67	3.50	366.67
220	237	230	203	QP ZG	3.50	366.70	3.50	0.00
220	239	237	204	QP ZG	0.00	366.67	3.50	366.67
220	239	237	204	QP ZG	3.50	366.66	3.50	0.00
220	240	239	205	QP ZG	0.00	366.67	3.40	366.67
220	240	239	205	QP ZG	3.40	366.66	3.40	0.00
220	241	240	206	QP ZG	0.00	397.73	4.10	366.67
220	241	240	206	QP ZG	4.10	366.66	4.10	0.00
501	1	-1	500	QP ZG	0.00	0.00	0.00	1752.92
501	1	-1	500	QP ZG	0.00	7062.51	0.10	7062.51
501	-1	2	500	QP ZG	0.00	7062.51	3.72	7062.51
501	-1	2	500	QP ZG	0.00	7062.51	0.00	7062.51
501	2	3	500	QP ZG	0.00	7062.51	3.60	7062.51
501	3	4	500	QP ZG	0.00	7062.51	3.40	7062.51
501	4	-2	500	QP ZG	0.00	7062.51	4.08	7062.51
501	-2	5	500	QP ZG	0.00	7062.51	0.10	7062.51
502	42	-4	503	QP ZG	0.00	0.00	0.10	254.97
502	-4	43	503	QP ZG	0.00	254.97	0.19	741.56
502	-4	43	503	QP ZG	1.89	918.09	1.90	55.17
502	-4	43	503	QP ZG	1.89	2407.34	1.89	918.14
502	-4	43	503	QP ZG	1.89	3494.35	1.89	2407.14
502	-4	43	503	QP ZG	1.89	5015.67	1.89	3494.55
502	-4	43	503	QP ZG	1.51	4100.49	1.89	5070.79
502	-4	43	503	QP ZG	0.19	741.56	1.51	4100.49
502	43	10	502	QP ZG	0.00	5084.58	0.23	5661.59
502	43	10	502	QP ZG	0.33	5673.85	1.01	5755.01
502	43	10	502	QP ZG	0.23	5661.59	0.33	5673.85
502	10	-5	502	QP ZG	0.00	5755.01	3.27	6146.65
502	10	-5	502	QP ZG	3.27	6146.65	3.90	6221.46
502	-5	44	502	QP ZG	0.00	6221.46	0.09	6232.64
502	-5	44	502	QP ZG	0.10	1954.12	0.10	0.00
502	-5	44	502	QP ZG	0.10	2935.50	0.10	1953.87
502	-5	44	502	QP ZG	0.09	5074.52	0.10	2935.87
502	-5	44	502	QP ZG	0.09	5191.36	0.09	5136.14
502	-5	44	502	QP ZG	0.09	6231.94	0.09	5184.14
503	-13	31	500	QP ZG	0.00	7062.51	0.10	7062.51
503	-13	31	500	QP ZG	0.00	7062.51	0.00	7062.51
503	32	-13	500	QP ZG	0.00	7062.51	3.72	7062.51
503	33	32	500	QP ZG	0.00	7062.51	3.40	7062.51
503	34	33	500	QP ZG	0.00	7062.51	3.60	7062.51
503	-14	34	500	QP ZG	0.00	7062.51	4.08	7062.51
503	35	-14	500	QP ZG	0.00	7062.51	0.10	7062.51
504	42	13	503	QP ZG	0.00	0.00	0.45	56.53
504	42	13	503	QP ZG	0.45	56.53	1.31	164.40
504	13	20	503	QP ZG	0.00	164.40	2.80	514.81
504	20	26	503	QP ZG	0.00	514.81	3.15	909.05

504	26	45	503 QP ZG	0.00	909.20	1.72	1124.34
504	45	47	502 QP ZG	0.00	11.79	0.01	337.95
504	45	47	502 QP ZG	0.02	1127.23	1.05	1255.15
504	45	47	502 QP ZG	0.02	923.08	0.02	1114.93
504	45	47	502 QP ZG	0.01	591.94	0.02	922.89
504	45	47	502 QP ZG	0.01	350.35	0.01	592.02
505	6	7	501 QP ZG	0.00	5225.00	3.03	5225.00
505	6	7	501 QP ZG	3.59	5224.79	3.60	5224.79
505	6	7	501 QP ZG	3.03	5225.00	3.59	5225.00
505	7	9	501 QP ZG	0.00	5225.00	3.39	5225.00
505	7	9	501 QP ZG	3.39	5225.09	3.40	5225.09
505	9	11	501 QP ZG	0.00	5225.00	3.49	5225.00
505	9	11	501 QP ZG	3.49	5225.08	3.50	5225.08
505	11	14	501 QP ZG	0.00	5225.00	3.49	5225.00
505	11	14	501 QP ZG	3.49	5225.18	3.50	5225.18
505	14	16	501 QP ZG	0.00	5225.00	3.39	5225.00
505	14	16	501 QP ZG	3.39	5225.08	3.40	5225.08
505	16	17	501 QP ZG	0.00	5225.00	4.09	5225.00
505	16	17	501 QP ZG	4.10	1663.52	4.10	47.47
505	16	17	501 QP ZG	4.10	3335.26	4.10	1663.48
505	16	17	501 QP ZG	4.09	5176.80	4.10	3335.22
507	12	1	500 QP ZG	0.00	0.98	3.10	0.00
509	15	-6	503 QP ZG	0.00	0.58	1.56	0.03
509	15	-6	502 QP ZG	0.00	2.61	1.56	3.15
509	21	15	503 QP ZG	0.00	1.41	2.70	0.54
509	21	15	502 QP ZG	0.00	1.57	2.70	2.44
509	23	21	503 QP ZG	0.00	2.07	1.97	1.43
509	23	21	502 QP ZG	0.00	0.93	1.97	1.58
509	-8	23	503 QP ZG	0.00	2.95	2.76	2.06
509	-8	23	502 QP ZG	0.00	0.03	2.76	0.93
511	8	-3	501 QP ZG	0.00	2.77	1.45	3.20
511	18	44	502 QP ZG	0.00	1.15	3.54	0.00
511	18	44	501 QP ZG	0.00	1.57	3.54	2.54
511	22	18	502 QP ZG	0.00	1.74	1.78	1.16
511	22	18	501 QP ZG	0.00	1.09	1.78	1.58
511	-9	22	502 QP ZG	0.00	2.99	3.88	1.73
511	-9	22	501 QP ZG	0.00	0.03	3.88	1.09
511	-10	27	502 QP ZG	0.00	5.93	0.10	5.87
511	48	-10	502 QP ZG	0.00	3.67	1.90	3.05
511	48	-10	504 QP ZG	0.00	0.00	1.90	0.65
517	-7	24	501 QP ZG	0.00	0.03	3.40	0.98
517	24	29	501 QP ZG	0.00	0.96	3.52	1.92
517	29	-17	501 QP ZG	0.00	1.92	3.88	2.98
518	38	-11	504 QP ZG	0.00	0.65	1.90	0.03
519	47	-12	502 QP ZG	0.00	5799.05	0.10	5811.61
519	-12	36	502 QP ZG	0.00	5811.60	0.66	5894.73
519	-12	36	502 QP ZG	0.66	5894.74	3.86	6295.89
519	36	48	502 QP ZG	0.00	6295.90	0.61	6372.53
519	36	48	502 QP ZG	0.61	6372.42	0.70	6383.87
519	48	-15	504 QP ZG	0.00	0.00	0.00	1073.48

519	48	-15	504	QP ZG	0.00	1130.00	0.10	1130.00
519	-15	-16	504	QP ZG	0.00	1130.00	2.84	1130.00
519	-16	38	504	QP ZG	0.00	1130.00	0.10	1130.00
520	46	27	501	QP ZG	0.00	5225.00	3.03	5225.00
520	46	27	504	QP ZG	2.94	1130.00	3.04	1130.00
520	46	27	504	QP ZG	0.10	1130.00	2.94	1130.00
520	46	27	504	QP ZG	0.00	1130.00	0.10	1130.00
520	46	27	504	QP ZG	0.00	53.60	0.00	1071.93
520	46	27	501	QP ZG	3.04	1843.81	3.04	46.33
520	46	27	501	QP ZG	3.04	2734.54	3.04	1889.12
520	46	27	501	QP ZG	3.03	4417.17	3.04	2734.46
520	46	27	501	QP ZG	3.03	4737.90	3.03	4107.62
520	28	46	501	QP ZG	0.00	5225.01	0.56	5225.01
520	30	28	501	QP ZG	0.00	5225.00	3.39	5225.00
520	30	28	501	QP ZG	3.39	5224.71	3.40	5224.71
520	37	30	501	QP ZG	0.00	5225.00	3.49	5225.00
520	37	30	501	QP ZG	3.49	5225.28	3.50	5225.28
520	39	37	501	QP ZG	0.00	5225.00	3.49	5225.00
520	39	37	501	QP ZG	3.49	5225.12	3.50	5225.12
520	40	39	501	QP ZG	0.00	5225.00	3.39	5225.00
520	40	39	501	QP ZG	3.39	5226.32	3.40	5226.32
520	41	40	501	QP ZG	0.00	5225.07	4.09	5225.07
520	41	40	501	QP ZG	4.09	5225.08	4.10	5225.08

Elenco carichi aste

Condizione di carico n. 4: Var solai

Carichi distribuiti

Ast	N1	N2	S	T	DC	Xi	Qi	Xf	Qf
α						<m>	<kg/m>	<m>	<kg/m>
102	-20	-21	102	QA ZG	0.00	31.52	1.99	0.00	
102	-21	110	101	QA ZG	0.00	79.42	1.02	63.33	
102	110	-22	101	QA ZG	0.00	63.33	4.00	0.00	
104	105	-20	100	QA ZG	0.00	1875.07	1.79	1874.95	
104	-20	113	100	QA ZG	0.00	1874.95	1.31	1874.86	
104	-20	113	102	QA ZG	1.26	122.54	1.31	121.75	
104	-20	113	102	QA ZG	0.00	142.17	1.26	122.54	
104	113	120	100	QA ZG	0.00	1874.86	2.80	1874.86	
104	113	120	102	QA ZG	2.72	78.60	2.80	77.30	
104	113	120	102	QA ZG	0.00	121.75	2.72	78.60	
104	120	126	100	QA ZG	0.00	1874.86	3.15	1874.86	
104	120	126	102	QA ZG	1.94	46.51	3.15	27.29	
104	120	126	102	QA ZG	0.00	77.30	1.94	46.51	
104	126	-28	100	QA ZG	0.00	1874.86	1.72	1874.86	
104	126	-28	102	QA ZG	0.00	27.29	1.72	0.00	
104	-28	-31	100	QA ZG	0.00	1874.86	1.05	1874.86	
104	-28	-31	101	QA ZG	0.00	357.65	1.05	341.04	
104	-31	135	100	QA ZG	0.00	1874.86	0.69	1874.86	
107	112	101	100	QA ZG	0.00	1874.86	3.10	1875.07	

107	119	112	100	QA ZG	0.00	1874.86	2.80	1874.86
107	125	119	100	QA ZG	0.00	1874.86	3.15	1874.86
107	131	125	100	QA ZG	0.00	1874.86	3.45	1874.86
108	115	-21	102	QA ZG	0.00	125.51	1.23	145.62
108	115	-21	101	QA ZG	0.00	366.33	1.66	366.93
108	115	-21	102	QA ZG	1.23	145.62	1.66	0.00
108	121	115	102	QA ZG	0.00	80.51	2.65	124.71
108	121	115	101	QA ZG	1.90	366.34	2.70	366.34
108	121	115	101	QA ZG	0.12	366.34	1.90	366.34
108	121	115	101	QA ZG	0.00	366.34	0.12	366.34
108	121	115	102	QA ZG	2.65	124.71	2.70	125.52
108	123	121	102	QA ZG	0.00	47.64	1.89	79.18
108	123	121	101	QA ZG	0.00	366.34	1.97	366.34
108	123	121	102	QA ZG	1.89	79.18	1.97	80.51
108	-28	123	102	QA ZG	0.00	0.00	2.86	47.64
108	-28	123	101	QA ZG	0.98	366.34	2.86	366.34
108	-28	123	101	QA ZG	0.00	366.34	0.98	366.34
111	-22	118	101	QA ZG	0.00	0.00	0.87	292.62
111	-22	118	101	QA ZG	2.75	366.34	3.54	366.34
111	-22	118	101	QA ZG	1.08	366.94	2.75	366.34
111	-22	118	101	QA ZG	0.87	292.62	1.08	366.94
111	118	122	101	QA ZG	0.00	366.34	1.78	366.34
111	122	127	101	QA ZG	0.00	366.34	0.12	366.34
111	122	127	101	QA ZG	2.10	366.34	3.98	366.34
111	122	127	101	QA ZG	0.12	366.34	2.10	366.34
111	127	-33	101	QA ZG	0.00	366.34	0.98	366.34
111	127	-33	103	QA ZG	0.00	228.01	2.00	228.01
111	127	-33	103	QA ZG	0.00	0.00	0.00	228.02
111	127	-33	101	QA ZG	2.00	52.53	2.00	0.00
111	127	-33	101	QA ZG	2.00	349.27	2.00	52.59
111	127	-33	101	QA ZG	0.98	366.34	2.00	349.32
118	138	-29	103	QA ZG	0.00	0.00	0.00	227.99
118	138	-29	103	QA ZG	0.00	228.01	2.00	228.01
119	-31	136	101	QA ZG	0.00	0.20	3.96	0.03
119	136	-33	101	QA ZG	0.00	0.03	0.70	0.00
119	-33	138	103	QA ZG	0.00	0.13	3.04	0.00
120	127	-29	103	QA ZG	0.00	0.00	3.04	0.13
205	206	207	212	QA ZG	0.00	275.00	3.60	275.00
205	206	207	212	QA ZG	3.60	275.00	3.60	0.00
205	207	209	213	QA ZG	0.00	275.00	3.40	275.00
205	207	209	213	QA ZG	3.40	275.00	3.40	0.00
205	209	211	214	QA ZG	0.00	275.00	3.50	275.00
205	209	211	214	QA ZG	3.50	275.00	3.50	0.00
205	211	214	215	QA ZG	0.00	275.00	3.50	275.00
205	211	214	215	QA ZG	3.50	275.00	3.50	0.00
205	214	216	216	QA ZG	0.00	275.00	3.40	275.00
205	214	216	216	QA ZG	3.40	275.00	3.40	0.00
205	216	217	217	QA ZG	0.00	274.99	4.10	262.69
205	216	217	217	QA ZG	4.10	262.69	4.10	0.00
206	-38	-39	212	QA ZG	0.00	0.00	0.00	158.76

206	-38	-39	200	QA ZG	3.60	274.96	3.60	0.00
206	-38	-39	200	QA ZG	0.00	275.00	3.60	275.00
206	-38	-39	212	QA ZG	0.00	275.00	3.60	275.00
206	-38	-39	212	QA ZG	0.00	158.73	0.00	274.96
206	-39	-40	213	QA ZG	0.00	0.00	0.00	275.00
206	-39	-40	211	QA ZG	3.40	275.00	3.40	0.00
206	-39	-40	211	QA ZG	0.00	275.00	3.40	275.00
206	-39	-40	213	QA ZG	0.00	275.00	3.40	275.00
206	-40	-41	214	QA ZG	0.00	0.00	0.00	275.00
206	-40	-41	210	QA ZG	3.50	275.00	3.50	0.00
206	-40	-41	210	QA ZG	0.00	275.00	3.50	275.00
206	-40	-41	214	QA ZG	0.00	275.00	3.50	275.00
206	-41	-42	215	QA ZG	0.00	0.00	0.00	275.03
206	-41	-42	209	QA ZG	3.50	275.00	3.50	0.00
206	-41	-42	209	QA ZG	0.00	275.00	3.50	275.00
206	-41	-42	215	QA ZG	0.00	275.00	3.50	275.00
206	-42	-44	216	QA ZG	0.00	0.00	0.00	275.00
206	-42	-44	208	QA ZG	3.40	275.00	3.40	0.00
206	-42	-44	208	QA ZG	0.00	275.00	3.40	275.00
206	-42	-44	216	QA ZG	0.00	275.00	3.40	275.00
206	-44	224	217	QA ZG	0.00	0.00	0.00	274.78
206	-44	224	207	QA ZG	4.10	263.79	4.10	0.00
206	-44	224	207	QA ZG	0.00	274.77	4.10	263.79
206	-44	224	217	QA ZG	0.00	274.78	4.10	262.48
210	-39	207	212	QA ZG	0.00	0.16	3.67	0.00
210	-39	207	213	QA ZG	0.00	0.00	3.67	0.16
210	-45	-39	200	QA ZG	0.00	0.16	3.67	0.00
210	-45	-39	211	QA ZG	0.00	0.00	3.67	0.16
210	228	-45	202	QA ZG	0.00	0.00	3.67	0.16
210	228	-45	201	QA ZG	0.00	0.16	3.67	0.00
211	208	206	212	QA ZG	0.00	0.09	1.55	0.16
211	-38	208	212	QA ZG	0.00	0.00	2.12	0.09
211	218	-38	200	QA ZG	0.00	0.09	1.58	0.16
211	222	218	200	QA ZG	0.00	0.01	1.78	0.09
211	-43	222	200	QA ZG	0.00	0.00	0.31	0.01
211	227	-43	201	QA ZG	0.00	0.00	3.67	0.16
212	-40	209	213	QA ZG	0.00	0.16	3.67	0.00
212	-40	209	214	QA ZG	0.00	0.00	3.67	0.16
212	-46	-40	211	QA ZG	0.00	0.16	3.67	0.00
212	-46	-40	210	QA ZG	0.00	0.00	3.67	0.16
212	230	-46	202	QA ZG	0.00	0.16	3.67	0.00
212	230	-46	203	QA ZG	0.00	0.00	3.67	0.16
213	-41	211	214	QA ZG	0.00	0.16	3.67	0.00
213	-41	211	215	QA ZG	0.00	0.00	3.67	0.16
213	-47	-41	210	QA ZG	0.00	0.16	3.67	0.00
213	-47	-41	209	QA ZG	0.00	0.00	3.67	0.16
213	237	-47	203	QA ZG	0.00	0.16	3.67	0.00
213	237	-47	204	QA ZG	0.00	0.00	3.67	0.16
214	-42	214	215	QA ZG	0.00	0.16	3.67	0.00
214	-42	214	216	QA ZG	0.00	0.00	3.67	0.16

214	-48	-42	209	QA ZG	0.00	0.16	3.67	0.00
214	-48	-42	208	QA ZG	0.00	0.00	3.67	0.16
214	239	-48	204	QA ZG	0.00	0.16	3.67	0.00
214	239	-48	205	QA ZG	0.00	0.00	3.67	0.16
215	-44	216	216	QA ZG	0.00	0.16	3.67	0.00
215	-44	216	217	QA ZG	0.00	0.00	3.67	0.16
215	-49	-44	208	QA ZG	0.00	0.16	3.67	0.00
215	-49	-44	207	QA ZG	0.00	0.00	3.67	0.16
215	240	-49	205	QA ZG	0.00	0.16	3.67	0.00
215	240	-49	206	QA ZG	0.00	0.00	3.67	0.16
216	-43	-45	200	QA ZG	0.00	0.00	0.00	23.31
216	-43	-45	201	QA ZG	3.60	275.00	3.60	0.00
216	-43	-45	201	QA ZG	0.00	275.00	3.60	275.00
216	-43	-45	200	QA ZG	0.00	275.00	3.60	275.00
216	-43	-45	200	QA ZG	0.00	156.86	0.00	275.08
216	-43	-45	200	QA ZG	0.00	23.31	0.00	156.83
216	-45	-46	211	QA ZG	0.00	0.00	0.00	275.00
216	-45	-46	202	QA ZG	3.40	274.99	3.40	0.00
216	-45	-46	202	QA ZG	0.00	275.00	3.40	275.00
216	-45	-46	211	QA ZG	0.00	275.00	3.40	275.00
216	-46	-47	210	QA ZG	0.00	0.00	0.00	275.03
216	-46	-47	203	QA ZG	3.50	275.00	3.50	0.00
216	-46	-47	203	QA ZG	0.00	275.00	3.50	275.00
216	-46	-47	210	QA ZG	0.00	275.00	3.50	275.00
216	-47	-48	209	QA ZG	0.00	0.00	0.00	275.00
216	-47	-48	204	QA ZG	3.50	275.00	3.50	0.00
216	-47	-48	204	QA ZG	0.00	275.00	3.50	275.00
216	-47	-48	209	QA ZG	0.00	275.00	3.50	275.00
216	-48	-49	208	QA ZG	0.00	0.00	0.00	275.00
216	-48	-49	205	QA ZG	3.40	275.00	3.40	0.00
216	-48	-49	205	QA ZG	0.00	275.00	3.40	275.00
216	-48	-49	208	QA ZG	0.00	275.00	3.40	275.00
216	-49	229	207	QA ZG	0.00	0.00	0.00	274.22
216	-49	229	206	QA ZG	4.11	297.48	4.11	0.00
216	-49	229	206	QA ZG	0.00	274.23	4.11	297.46
216	-49	229	207	QA ZG	0.00	274.21	4.11	263.25
217	217	224	217	QA ZG	0.00	0.00	3.50	0.15
217	224	229	207	QA ZG	0.00	0.00	3.52	0.15
217	229	241	206	QA ZG	0.00	0.00	3.98	0.17
220	228	227	201	QA ZG	0.00	275.00	3.60	275.00
220	228	227	201	QA ZG	3.60	275.00	3.60	0.00
220	230	228	202	QA ZG	0.00	275.00	3.40	275.00
220	230	228	202	QA ZG	3.40	275.00	3.40	0.00
220	237	230	203	QA ZG	0.00	275.00	3.50	275.00
220	237	230	203	QA ZG	3.50	275.03	3.50	0.00
220	239	237	204	QA ZG	0.00	275.00	3.50	275.00
220	239	237	204	QA ZG	3.50	275.00	3.50	0.00
220	240	239	205	QA ZG	0.00	275.00	3.40	275.00
220	240	239	205	QA ZG	3.40	275.00	3.40	0.00
220	241	240	206	QA ZG	0.00	298.30	4.10	275.00

220	241	240	206	QA ZG	4.10	275.00	4.10	0.00
501	1	-1	500	QA ZG	0.00	0.00	0.00	310.25
501	1	-1	500	QA ZG	0.00	1250.00	0.10	1250.00
501	-1	2	500	QA ZG	0.00	1250.00	3.72	1250.00
501	-1	2	500	QA ZG	0.00	1250.00	0.00	1250.00
501	2	3	500	QA ZG	0.00	1250.00	3.60	1250.00
501	3	4	500	QA ZG	0.00	1250.00	3.40	1250.00
501	4	-2	500	QA ZG	0.00	1250.00	4.08	1250.00
501	-2	5	500	QA ZG	0.00	1250.00	0.10	1250.00
502	42	-4	503	QA ZG	0.00	0.00	0.10	78.97
502	-4	43	503	QA ZG	0.00	78.97	0.19	229.69
502	-4	43	503	QA ZG	1.89	284.36	1.90	17.09
502	-4	43	503	QA ZG	1.89	745.64	1.89	284.38
502	-4	43	503	QA ZG	1.89	1082.32	1.89	745.57
502	-4	43	503	QA ZG	1.89	1553.53	1.89	1082.38
502	-4	43	503	QA ZG	1.51	1270.06	1.89	1570.60
502	-4	43	503	QA ZG	0.19	229.69	1.51	1270.06
502	43	10	502	QA ZG	0.00	1574.87	0.23	1753.59
502	43	10	502	QA ZG	0.33	1757.39	1.01	1782.53
502	43	10	502	QA ZG	0.23	1753.59	0.33	1757.39
502	10	-5	502	QA ZG	0.00	1782.53	3.27	1903.83
502	10	-5	502	QA ZG	3.27	1903.83	3.90	1927.00
502	-5	44	502	QA ZG	0.00	1927.00	0.09	1930.46
502	-5	44	502	QA ZG	0.10	605.26	0.10	0.00
502	-5	44	502	QA ZG	0.10	909.23	0.10	605.18
502	-5	44	502	QA ZG	0.09	1571.75	0.10	909.34
502	-5	44	502	QA ZG	0.09	1607.94	0.09	1590.84
502	-5	44	502	QA ZG	0.09	1930.25	0.09	1605.71
503	-13	31	500	QA ZG	0.00	1250.00	0.10	1250.00
503	-13	31	500	QA ZG	0.00	1250.00	0.00	1250.00
503	32	-13	500	QA ZG	0.00	1250.00	3.72	1250.00
503	33	32	500	QA ZG	0.00	1250.00	3.40	1250.00
503	34	33	500	QA ZG	0.00	1250.00	3.60	1250.00
503	-14	34	500	QA ZG	0.00	1250.00	4.08	1250.00
503	35	-14	500	QA ZG	0.00	1250.00	0.10	1250.00
504	42	13	503	QA ZG	0.00	0.00	1.31	50.92
504	13	20	503	QA ZG	0.00	50.92	2.80	159.45
504	20	26	503	QA ZG	0.00	159.45	3.15	281.57
504	26	45	503	QA ZG	0.00	281.61	1.72	348.25
504	45	47	502	QA ZG	0.00	3.65	0.01	104.68
504	45	47	502	QA ZG	0.02	349.14	1.05	388.76
504	45	47	502	QA ZG	0.02	285.91	0.02	345.33
504	45	47	502	QA ZG	0.01	183.35	0.02	285.85
504	45	47	502	QA ZG	0.01	108.52	0.01	183.37
505	6	7	501	QA ZG	0.00	2200.00	3.03	2200.00
505	6	7	501	QA ZG	3.59	2199.91	3.60	2199.91
505	6	7	501	QA ZG	3.03	2200.00	3.59	2200.00
505	7	9	501	QA ZG	0.00	2200.00	3.39	2200.00
505	7	9	501	QA ZG	3.39	2200.04	3.40	2200.04
505	9	11	501	QA ZG	0.00	2200.00	3.49	2200.00

505	9	11	501	QA ZG	3.49	2200.03	3.50	2200.03
505	11	14	501	QA ZG	0.00	2200.00	3.49	2200.00
505	11	14	501	QA ZG	3.49	2200.07	3.50	2200.07
505	14	16	501	QA ZG	0.00	2200.00	3.39	2200.00
505	14	16	501	QA ZG	3.39	2200.04	3.40	2200.04
505	16	17	501	QA ZG	0.00	2200.00	4.09	2200.00
505	16	17	501	QA ZG	4.10	700.43	4.10	19.99
505	16	17	501	QA ZG	4.10	1404.32	4.10	700.41
505	16	17	501	QA ZG	4.09	2179.71	4.10	1404.30
507	12	1	500	QA ZG	0.00	0.17	3.10	0.00
509	15	-6	503	QA ZG	0.00	0.18	1.56	0.01
509	15	-6	502	QA ZG	0.00	0.81	1.56	0.98
509	21	15	503	QA ZG	0.00	0.44	2.70	0.17
509	21	15	502	QA ZG	0.00	0.49	2.70	0.76
509	23	21	503	QA ZG	0.00	0.64	1.97	0.44
509	23	21	502	QA ZG	0.00	0.29	1.97	0.49
509	-8	23	503	QA ZG	0.00	0.91	2.76	0.64
509	-8	23	502	QA ZG	0.00	0.01	2.76	0.29
511	8	-3	501	QA ZG	0.00	1.17	1.45	1.35
511	18	44	502	QA ZG	0.00	0.36	3.54	0.00
511	18	44	501	QA ZG	0.00	0.66	3.54	1.07
511	22	18	502	QA ZG	0.00	0.54	1.78	0.36
511	22	18	501	QA ZG	0.00	0.46	1.78	0.67
511	-9	22	502	QA ZG	0.00	0.93	3.88	0.54
511	-9	22	501	QA ZG	0.00	0.01	3.88	0.46
511	-10	27	502	QA ZG	0.00	1.84	0.10	1.82
511	48	-10	502	QA ZG	0.00	1.14	1.90	0.94
511	48	-10	504	QA ZG	0.00	0.00	1.90	0.20
517	-7	24	501	QA ZG	0.00	0.01	3.40	0.41
517	24	29	501	QA ZG	0.00	0.40	3.52	0.81
517	29	-17	501	QA ZG	0.00	0.81	3.88	1.25
518	38	-11	504	QA ZG	0.00	0.20	1.90	0.01
519	47	-12	502	QA ZG	0.00	1796.16	0.10	1800.06
519	-12	36	502	QA ZG	0.00	1800.05	0.66	1825.80
519	-12	36	502	QA ZG	0.66	1825.81	3.86	1950.05
519	36	48	502	QA ZG	0.00	1950.06	0.61	1973.79
519	36	48	502	QA ZG	0.61	1973.76	0.70	1977.30
519	48	-15	504	QA ZG	0.00	0.00	0.00	332.49
519	48	-15	504	QA ZG	0.00	350.00	0.10	350.00
519	-15	-16	504	QA ZG	0.00	350.00	2.84	350.00
519	-16	38	504	QA ZG	0.00	350.00	0.10	350.00
520	46	27	501	QA ZG	0.00	2200.00	3.03	2200.00
520	46	27	504	QA ZG	2.94	350.00	3.04	350.00
520	46	27	504	QA ZG	0.10	350.00	2.94	350.00
520	46	27	504	QA ZG	0.00	350.00	0.10	350.00
520	46	27	504	QA ZG	0.00	16.60	0.00	332.01
520	46	27	501	QA ZG	3.04	776.34	3.04	19.51
520	46	27	501	QA ZG	3.04	1151.38	3.04	795.42
520	46	27	501	QA ZG	3.03	1859.86	3.04	1151.35
520	46	27	501	QA ZG	3.03	1994.90	3.03	1729.52

520	28	46	501	QA ZG	0.00	2200.00	0.56	2200.00
520	30	28	501	QA ZG	0.00	2200.00	3.39	2200.00
520	30	28	501	QA ZG	3.39	2199.88	3.40	2199.88
520	37	30	501	QA ZG	0.00	2200.00	3.49	2200.00
520	37	30	501	QA ZG	3.49	2200.12	3.50	2200.12
520	39	37	501	QA ZG	0.00	2200.00	3.49	2200.00
520	39	37	501	QA ZG	3.49	2200.05	3.50	2200.05
520	40	39	501	QA ZG	0.00	2200.00	3.39	2200.00
520	40	39	501	QA ZG	3.39	2200.55	3.40	2200.55
520	41	40	501	QA ZG	0.00	2200.03	4.09	2200.03
520	41	40	501	QA ZG	4.09	2200.04	4.10	2200.04

Elenco carichi aste**Condizione di carico n. 5: Vento laterale****Carichi distribuiti**

Ast	N1	N2	S	T	DC	Xi	Qi	Xf	Qf
α							<m> <kg/m>	<m> <kg/m>	
107	112	101	--	M	YL	0.00	254.84	3.10	254.84
107	119	112	--	M	YL	0.00	254.84	2.80	254.84
107	125	119	--	M	YL	0.00	254.84	3.15	254.84
107	131	125	--	M	YL	0.00	254.84	3.45	254.84
217	217	224	--	M	YL	0.00	-254.84	3.50	-254.84
217	224	229	--	M	YL	0.00	-254.84	3.52	-254.84
217	229	241	--	M	YL	0.00	-254.84	3.98	-254.84

Elenco carichi aste**Condizione di carico n. 6: Vento frontale****Carichi distribuiti**

Ast	N1	N2	S	T	DC	Xi	Qi	Xf	Qf
α							<m> <kg/m>	<m> <kg/m>	
101	101	102	--	M	YL	0.00	-254.84	3.83	-254.84
101	102	103	--	M	YL	0.00	-254.84	3.60	-254.84
101	103	104	--	M	YL	0.00	-254.84	3.40	-254.84
101	104	105	--	M	YL	0.00	-254.84	4.18	-254.84
102	-20	-21	--	M	YL	0.00	-254.84	1.99	-254.84
102	-21	110	--	M	YL	0.00	-254.84	1.02	-254.84
102	110	-22	--	M	YL	0.00	-254.84	4.00	-254.84
205	206	207	--	M	YL	0.00	-254.84	3.60	-254.84
205	207	209	--	M	YL	0.00	-254.84	3.40	-254.84
205	209	211	--	M	YL	0.00	-254.84	3.50	-254.84
205	211	214	--	M	YL	0.00	-254.84	3.50	-254.84
205	214	216	--	M	YL	0.00	-254.84	3.40	-254.84
205	216	217	--	M	YL	0.00	-254.84	4.10	-254.84

Risultati del calcolo

Parametri di calcolo

La modellazione della struttura e la rielaborazione dei risultati del calcolo sono stati effettuati con:

ModeSt ver. 7.14, prodotto da Tecnisoft s.a.s. – Prato

La struttura è stata calcolata utilizzando come solutore agli elementi finiti:

Xfinest ver. 8.1, prodotto da Ce.A.S. S.r.l. – Milano

Tipo di normativa: Stati limite D.M. 96

Tipo di calcolo: calcolo statico

Schematizzazione piani rigidi: nessun impalcato rigido

Modalità di recupero masse secondarie: trasferire all'impalcato più vicino con modifica XY baricentro

Opzioni di calcolo:

- Non sono state considerate infinitamente rigide le zone di connessione fra travi, pilastri ed elementi bidimensionali
- Calcolo con offset rigidi dai nodi: no
- Uniformare i carichi variabili: no
- Massimizzare i carichi variabili: no
- Minimo carico da considerare: 0.00 <kg/m>
- Recupero carichi zone rigide: taglio e momento flettente
- Modalità di combinazione momento torcente: disaccoppiare le azioni

Opzioni del solutore:

- Tipo di elemento bidimensionale: ISOSHELL
- Trascura deformabilità a taglio delle aste: No
- Analisi dinamica con metodo di Lanczos: Sì
- Check sequenza di Sturm: Sì
- Soluzione matrice con metodo ver. 5.1: No
- Analisi non lineare con Newton modificato: No
- Usa formulazione secante per Buckling: No
- Trascura Buckling torsionale: No

Condizioni di carico elementari

Simbologia

CCE	= Numero della condizione di carico elementare
Comm.	= Commento
s	= Coeff. di riduzione
Mx	= Moltiplicatore della massa in dir. X
My	= Moltiplicatore della massa in dir. Y
Mz	= Moltiplicatore della massa in dir. Z
Jpx	= Moltiplicatore del momento d'inerzia intorno all'asse X

Jpy = Moltiplicatore del momento d'inerzia intorno all'asse Y

Jpz = Moltiplicatore del momento d'inerzia intorno all'asse Z

Tipo CCE = Tipo di CCE per calcolo agli stati limite

Sicurezza = Contributo alla sicurezza

F = a favore

S = a sfavore

A = ambigua

Variabilità = Tipo di variabilità

B = di base

I = indipendente

A = ambigua

CCE Comm.	s	Mx	My	Mz	Jpx	Jpy	Jpz	Tipo CCE	Sicurezza	Variabilità
1 Pesi propri	1.00	1.00	1.00	0.00	0.00	0.00	1.00	4	S	--
2 Muri perimetrali	1.00	1.00	1.00	0.00	0.00	0.00	1.00	4	S	--
3 Perma solai	1.00	1.00	1.00	0.00	0.00	0.00	1.00	4	S	--
4 Var solai	1.00	1.00	1.00	0.00	0.00	0.00	1.00	5	A	B
5 Vento laterale	1.00	1.00	1.00	0.00	0.00	0.00	1.00	10	A	B
6 Vento frontale	1.00	1.00	1.00	0.00	0.00	0.00	1.00	10	A	B

Elenco tipi cce definiti

Simbologia

Tipo CCE = Tipo condizione di carico elementare

Comm. = Commento

Tipo = Tipologia

G = Permanente

Q = Variabile

I = Da ignorare

E = Azione sismica

A = Azione eccezionale

P = Precompressione

Durata = Durata del carico

N = Non definita

P = Permanente

L = Lunga

M = Media

B = Breve

I = Istantanea

$\gamma_{min.}$ = Coeff. $\gamma_{min.}$

γ_{max} = Coeff. γ_{max}

ψ_0 = Coeff. ψ_0

ψ_1 = Coeff. ψ_1

ψ_2 = Coeff. ψ_2

$\psi_{0,s}$ = Coeff. ψ_0 sismico (D.M. 96)

$\psi_{2,s}$ = Coeff. ψ_2 sismico (Ord. 3431)

Tipo CCE	Comm.	Tipo	Durata	γ min.	γ max	Ψ_0	Ψ_1	Ψ_2	$\Psi_{0,s}$	$\Psi_{2,s}$
1	CARICHI ECCEZIONALI	A	N	1.40	1.40					
2	PRECOMPRESSIONE	P	N	0.90	1.20					
3	DA IGNORARE	I	N							
4	PERMANENTI	G	N	1.00	1.40					
5	VARIABILI ABITAZIONI, UFFICI	Q	N	0.00	1.50	0.70	0.50	0.20	0.70	0.30
6	VARIABILI AUTORIMESSE	Q	N	0.00	1.50	0.70	0.70	0.60	0.70	0.60
7	MAGAZZINI, ARCHIVI, SCALE	Q	N	0.00	1.50	0.70	0.60	0.30	0.70	0.80
8	VARIABILI PER NEVE	Q	N	0.00	1.50	0.70	0.20	0.00	0.70	0.20
9	VARIABILI UFFICI APERTI AL PUBBLICO, NEGOZI, SCUOLE	Q	N	0.00	1.50	0.70	0.60	0.30	0.70	0.60
10	VARIABILI PER VENTO, VARIAZIONE TERMICA	Q	N	0.00	1.50	0.70	0.20	0.00	0.00	0.00

Ambienti di carico

Simbologia

N = Numero

Comm. = Commento

1 Pesi propri

2 Muri perimetrali

3 Perma solai

4 Var solai

5 Vento laterale

6 Vento frontale

S Azioni sismiche

SLU Stato limite ultimo

SLR Stato limite per combinazioni rare

SLF Stato limite per combinazioni frequenti

SLQ Stato limite per combinazioni quasi permanenti o di danno

N Comm. 1 2 3 4 5 6 SLU SLR SLF SLQ

1 Calcolo statico si si si si si si no no no

Elenco combinazioni di carico simboliche

Simbologia

CC = Numero della combinazione delle condizioni di carico elementari

Comm. = Commento

Tipo CC = Tipo di combinazione di carico

SLU = Stato limite ultimo

SLU S = Stato limite ultimo (azione sismica)

SLE R = Stato limite d'esercizio, combinazione rara

SLE F = Stato limite d'esercizio, combinazione frequente

SLE Q = Stato limite d'esercizio, combinazione quasi permanente

SLD = Stato limite di danno

CC Comm.	Tipo	CC	1	2	3	4	5	6
1	Amb. 1	SLU	γ	max	γ	max	γ	max
2	Amb. 1	SLU	γ	max	γ	max	min.	γ
3	Amb. 1	SLU	γ	max	γ	max	min.	γ
4	Amb. 1	SLU	γ	max	γ	max	min.	γ
5	Amb. 1	SLU	γ	max	γ	max	min.	γ
6	Amb. 1	SLU	γ	max	γ	max	min.	γ
7	Amb. 1	SLU	γ	max	γ	max	min.	γ
8	Amb. 1	SLU	γ	max	γ	max	min.	γ

Combinazioni delle cce

Simbologia

CC = Numero della combinazione delle condizioni di carico elementari

Comm. = Commento

Tipo CC = Tipo di combinazione di carico

SLU = Stato limite ultimo

SLU S = Stato limite ultimo (azione sismica)

SLE R = Stato limite d'esercizio, combinazione rara

SLE F = Stato limite d'esercizio, combinazione frequente

SLE Q = Stato limite d'esercizio, combinazione quasi permanente

SLD = Stato limite di danno

An. = Tipo di analisi

L = Lineare

NL = Non lineare

Bk = Buckling

S = Si

N = No

CC Comm.	Tipo	CC	An.	Bk	1	2	3	4	5	6
1	CC 1 - Amb. 1	SLU	L	N	1.40	1.40	1.40	1.50	1.50	1.50
2	CC 2 - Amb. 1	SLU	L	N	1.40	1.40	1.40	0.00	1.50	1.50
3	CC 3 - Amb. 1	SLU	L	N	1.40	1.40	1.40	1.50	0.00	1.50
4	CC 4 - Amb. 1	SLU	L	N	1.40	1.40	1.40	0.00	0.00	1.50
5	CC 5 - Amb. 1	SLU	L	N	1.40	1.40	1.40	1.50	1.50	0.00
6	CC 6 - Amb. 1	SLU	L	N	1.40	1.40	1.40	0.00	1.50	0.00
7	CC 7 - Amb. 1	SLU	L	N	1.40	1.40	1.40	1.50	0.00	0.00
8	CC 8 - Amb. 1	SLU	L	N	1.40	1.40	1.40	0.00	0.00	0.00

Elenco masse nodi

Simbologia

Nodo = Numero del nodo

Mo = Massa orizzontale

Nodo Mo <KG>

-49	550.21
-48	506.59
-47	513.52
-46	506.59
-45	513.52
-44	544.39
-43	378.87
-42	506.59
-41	513.52
-40	506.59
-39	513.52
-38	364.12
-37	85.44
-36	78.13
-35	78.13
-34	78.13
-33	209.77
-32	78.13
-31	913.98
-30	78.13
-29	120.17
-28	1539.58
-27	78.13
-26	85.44
-25	78.13
-24	78.13
-23	78.13
-22	216.14
-21	201.32
-20	1555.71
-19	78.13
-18	78.13
101	1697.70
102	358.60
103	340.72
104	364.93
105	1090.33
106	97.29
108	68.37
110	136.05
112	2842.87
113	2018.76

115	302.01
118	370.39
119	2864.15
120	2899.37
121	320.86
122	399.39
123	330.58
125	3174.61
126	2381.01
127	510.05
128	82.40
131	1863.42
132	350.11
133	340.72
134	373.34
135	568.64
136	90.15
138	149.02
206	294.12
207	504.78
208	197.99
209	497.94
211	504.78
214	497.94
216	536.97
217	427.95
218	185.47
222	120.03
224	580.33
227	403.62
228	504.78
229	608.89
230	497.94
237	504.78
239	497.94
240	542.76
241	456.48

Spostamenti dei nodi allo stato limite ultimo

Simbologia

Nodo = Numero del nodo

Sx = Spostamento in dir. X

CC = Numero della combinazione delle condizioni di carico elementari

Sy = Spostamento in dir. Y

Sz = Spostamento in dir. Z

Rx = Rotazione intorno all'asse X

Ry = Rotazione intorno all'asse Y

Rz = Rotazione intorno all'asse Z

Nodo	Sx <cm>	CC Sy <cm>	CC Sz <cm>	CC Rx <rad>	CC Ry <rad>	CC Rz <rad>	CC					
-49	Max-0.01	8	0.42	4	-2.03	8	0.00	7	0.00	1	0.00	4
-49	Min. -0.19	1	-0.07	5	-3.12	1	0.00	2	0.00	8	0.00	5
-48	Max-0.01	8	0.45	4	-1.99	4	0.00	7	0.00	1	0.00	4
-48	Min. -0.19	1	-0.07	5	-3.05	5	0.00	2	0.00	8	0.00	5
-47	Max-0.01	7	0.45	4	-2.02	2	0.00	3	0.00	1	0.00	4
-47	Min. -0.19	2	-0.08	5	-3.10	7	0.00	6	0.00	8	0.00	5
-46	Max-0.01	7	0.41	4	-1.96	2	0.00	1	0.00	1	0.00	8
-46	Min. -0.17	2	-0.09	5	-3.01	7	0.00	8	0.00	8	0.00	1
-45	Max-0.01	7	0.33	4	-1.89	2	0.00	5	0.00	5	0.00	8
-45	Min. -0.16	2	-0.08	5	-2.91	7	0.00	4	0.00	4	0.00	1
-44	Max-0.02	8	0.42	4	-2.02	4	-0.00	8	0.00	6	0.00	2
-44	Min. -0.18	1	-0.07	5	-3.12	5	-0.00	1	-0.00	3	0.00	7
-43	Max-0.01	7	0.28	4	-0.42	8	0.00	6	0.00	3	0.00	4
-43	Min. -0.14	2	-0.08	5	-0.50	1	0.00	3	0.00	6	0.00	5
-42	Max-0.02	8	0.46	4	-1.99	4	-0.00	4	0.00	6	0.00	2
-42	Min. -0.19	1	-0.08	5	-3.05	5	-0.00	5	0.00	3	0.00	7
-41	Max-0.01	8	0.46	4	-2.03	8	-0.00	4	0.00	2	0.00	6
-41	Min. -0.19	1	-0.08	5	-3.11	1	-0.00	5	0.00	7	0.00	3
-40	Max-0.01	8	0.41	4	-1.97	2	-0.00	6	0.00	2	0.00	6
-40	Min. -0.18	1	-0.09	5	-3.02	7	-0.00	3	0.00	7	0.00	3
-39	Max-0.01	8	0.34	4	-1.91	2	-0.00	6	0.00	2	0.00	6
-39	Min. -0.16	1	-0.08	5	-2.94	7	-0.00	3	0.00	7	0.00	3
-38	Max-0.01	8	0.28	4	-0.44	4	0.00	5	0.00	7	0.00	6
-38	Min. -0.15	1	-0.08	5	-0.53	5	0.00	4	0.00	2	0.00	3
-37	Max-0.00	7	0.32	4	-0.46	6	0.00	5	0.00	7	0.00	8
-37	Min. -0.13	2	-0.05	5	-0.57	3	0.00	4	0.00	2	0.00	1
-36	Max-0.02	8	0.34	4	-0.63	8	0.00	5	0.00	7	0.00	5
-36	Min. -0.15	1	-0.05	5	-0.80	1	-0.00	4	0.00	2	0.00	4
-35	Max-0.01	8	0.37	4	-0.69	4	0.00	5	0.00	7	0.00	7
-35	Min. -0.14	1	-0.06	5	-0.90	5	-0.00	4	0.00	2	0.00	2
-34	Max0.00	7	0.36	4	-0.70	2	0.00	5	0.00	8	0.00	3
-34	Min. -0.14	2	-0.07	5	-0.91	7	-0.00	4	0.00	1	0.00	6
-33	Max-0.01	7	0.27	4	-0.47	6	0.00	1	0.00	3	0.00	8
-33	Min. -0.12	2	-0.07	5	-0.58	3	0.00	8	0.00	6	0.00	1
-32	Max0.01	7	0.32	4	-0.64	2	0.00	5	0.00	8	0.00	3
-32	Min. -0.12	2	-0.07	5	-0.83	7	-0.00	4	0.00	1	0.00	6
-31	Max-0.02	7	0.41	4	-0.63	6	0.00	5	0.00	7	0.00	2
-31	Min. -0.15	2	-0.02	5	-0.75	3	0.00	4	0.00	2	0.00	7
-30	Max-0.01	8	0.28	4	-0.39	6	0.00	5	0.00	7	0.00	4
-30	Min. -0.15	1	-0.05	5	-0.45	3	-0.00	4	0.00	2	0.00	5
-29	Max0.00	7	0.27	4	-0.55	4	0.00	5	0.00	7	0.00	6
-29	Min. -0.12	2	-0.07	5	-0.70	5	0.00	4	0.00	2	0.00	3
-28	Max-0.02	8	0.41	4	-0.65	2	0.00	5	0.00	7	0.00	2
-28	Min. -0.14	1	-0.02	5	-0.77	7	0.00	4	0.00	2	0.00	7
-27	Max-0.01	8	0.28	4	-0.39	2	0.00	6	0.00	7	0.00	2
-27	Min. -0.13	1	-0.06	5	-0.45	7	-0.00	3	0.00	2	0.00	7
-26	Max-0.01	8	0.33	4	-0.44	2	0.00	6	0.00	7	0.00	6
-26	Min. -0.13	1	-0.05	5	-0.55	7	0.00	3	0.00	2	0.00	3

-25	Max	-0.02	8	0.34	4	-0.62	4	0.00	6	0.00	7	0.00	7
-25	Min.	-0.15	1	-0.06	5	-0.80	5	-0.00	3	0.00	2	0.00	2
-24	Max	-0.02	8	0.37	4	-0.69	4	0.00	5	0.00	7	0.00	7
-24	Min.	-0.15	1	-0.07	5	-0.90	5	-0.00	4	0.00	2	0.00	2
-23	Max	-0.01	8	0.37	4	-0.71	8	0.00	5	0.00	8	0.00	3
-23	Min.	-0.14	1	-0.07	5	-0.93	1	-0.00	4	0.00	1	0.00	6
-22	Max	-0.02	8	0.27	4	-0.47	4	0.00	6	0.00	8	0.00	6
-22	Min.	-0.13	1	-0.07	5	-0.57	5	0.00	3	0.00	1	0.00	3
-21	Max	-0.02	8	0.41	4	-0.55	2	0.00	7	0.00	6	0.00	4
-21	Min.	-0.13	1	-0.02	5	-0.67	7	0.00	2	0.00	3	0.00	5
-20	Max	-0.03	8	0.41	4	-0.65	2	0.00	8	0.00	7	0.00	8
-20	Min.	-0.13	1	-0.02	5	-0.76	7	0.00	1	0.00	2	0.00	1
-19	Max	-0.00	7	0.33	4	-0.69	2	0.00	5	0.00	8	0.00	3
-19	Min.	-0.12	2	-0.07	5	-0.89	7	-0.00	4	0.00	1	0.00	6
-18	Max	0.00	7	0.28	4	-0.61	2	0.00	5	0.00	8	0.00	4
-18	Min.	-0.10	2	-0.07	5	-0.78	7	0.00	4	0.00	1	0.00	5
-17	Max	0.00	1	0.00	1	-0.45	6	0.00	6	0.00	4	0.00	1
-17	Min.	0.00	1	0.00	1	-0.56	3	0.00	3	0.00	5	0.00	1
-16	Max	0.00	1	0.00	1	-0.42	6	0.00	7	0.00	3	0.00	1
-16	Min.	0.00	1	0.00	1	-0.53	3	0.00	2	0.00	6	0.00	1
-15	Max	0.00	1	0.00	1	-0.45	8	0.00	6	0.00	2	0.00	1
-15	Min.	0.00	1	0.00	1	-0.55	1	0.00	3	0.00	7	0.00	1
-14	Max	0.00	1	0.00	1	-0.59	6	0.00	6	0.00	3	0.00	1
-14	Min.	0.00	1	0.00	1	-0.70	3	0.00	3	0.00	6	0.00	1
-13	Max	0.00	1	0.00	1	-0.69	8	0.00	7	0.00	8	0.00	1
-13	Min.	0.00	1	0.00	1	-0.82	1	0.00	2	0.00	1	0.00	1
-12	Max	0.00	1	0.00	1	-0.58	6	0.00	6	0.00	2	0.00	1
-12	Min.	0.00	1	0.00	1	-0.68	3	0.00	3	0.00	7	0.00	1
-11	Max	0.00	1	0.00	1	-0.52	6	0.00	7	0.00	7	0.00	1
-11	Min.	0.00	1	0.00	1	-0.65	3	0.00	2	0.00	2	0.00	1
-10	Max	0.00	1	0.00	1	-0.44	8	0.00	6	0.00	7	0.00	1
-10	Min.	0.00	1	0.00	1	-0.53	1	0.00	3	0.00	2	0.00	1
-9	Max	0.00	1	0.00	1	-0.44	8	0.00	6	0.00	7	0.00	1
-9	Min.	0.00	1	0.00	1	-0.53	1	0.00	3	0.00	2	0.00	1
-8	Max	0.00	1	0.00	1	-0.56	6	0.00	5	0.00	2	0.00	1
-8	Min.	0.00	1	0.00	1	-0.67	3	0.00	4	0.00	7	0.00	1
-7	Max	0.00	1	0.00	1	-0.44	2	0.00	7	0.00	8	0.00	1
-7	Min.	0.00	1	0.00	1	-0.54	7	0.00	2	0.00	1	0.00	1
-6	Max	0.00	1	0.00	1	-0.52	2	0.00	7	0.00	6	0.00	1
-6	Min.	0.00	1	0.00	1	-0.62	7	0.00	2	0.00	3	0.00	1
-5	Max	0.00	1	0.00	1	-0.45	4	0.00	5	0.00	5	0.00	1
-5	Min.	0.00	1	0.00	1	-0.55	5	0.00	4	0.00	4	0.00	1
-4	Max	0.00	1	0.00	1	-0.58	2	0.00	8	0.00	6	0.00	1
-4	Min.	0.00	1	0.00	1	-0.68	7	0.00	1	0.00	3	0.00	1
-3	Max	0.00	1	0.00	1	-0.48	4	0.00	5	0.00	3	0.00	1
-3	Min.	0.00	1	0.00	1	-0.61	5	0.00	4	0.00	6	0.00	1
-2	Max	0.00	1	0.00	1	-0.60	2	0.00	8	0.00	7	0.00	1
-2	Min.	0.00	1	0.00	1	-0.70	7	0.00	1	0.00	2	0.00	1
-1	Max	0.00	1	0.00	1	-0.69	4	0.00	6	0.00	4	0.00	1
-1	Min.	0.00	1	0.00	1	-0.81	5	0.00	3	0.00	5	0.00	1

1	Max 0.00	1	0.00	1	-0.69	4	0.00	6	0.00	4	0.00	1
1	Min. 0.00	1	0.00	1	-0.81	5	0.00	3	0.00	5	0.00	1
2	Max 0.00	1	0.00	1	-0.69	2	0.00	6	0.00	4	0.00	1
2	Min. 0.00	1	0.00	1	-0.79	7	0.00	3	0.00	5	0.00	1
3	Max 0.00	1	0.00	1	-0.69	2	0.00	6	0.00	2	0.00	1
3	Min. 0.00	1	0.00	1	-0.78	7	0.00	3	0.00	7	0.00	1
4	Max 0.00	1	0.00	1	-0.66	4	0.00	8	0.00	7	0.00	1
4	Min. 0.00	1	0.00	1	-0.76	5	0.00	1	0.00	2	0.00	1
5	Max 0.00	1	0.00	1	-0.59	2	0.00	8	0.00	7	0.00	1
5	Min. 0.00	1	0.00	1	-0.70	7	0.00	1	0.00	2	0.00	1
6	Max 0.00	1	0.00	1	-0.48	4	0.00	5	0.00	3	0.00	1
6	Min. 0.00	1	0.00	1	-0.61	5	0.00	4	0.00	6	0.00	1
7	Max 0.00	1	0.00	1	-0.60	2	0.00	5	0.00	7	0.00	1
7	Min. 0.00	1	0.00	1	-0.77	7	0.00	4	0.00	2	0.00	1
8	Max 0.00	1	0.00	1	-0.45	4	0.00	5	0.00	7	0.00	1
8	Min. 0.00	1	0.00	1	-0.56	5	0.00	4	0.00	2	0.00	1
9	Max 0.00	1	0.00	1	-0.67	2	0.00	7	0.00	5	0.00	1
9	Min. 0.00	1	0.00	1	-0.87	7	0.00	2	0.00	4	0.00	1
10	Max 0.00	1	0.00	1	-0.50	2	0.00	7	0.00	6	0.00	1
10	Min. 0.00	1	0.00	1	-0.60	7	0.00	2	0.00	3	0.00	1
11	Max 0.00	1	0.00	1	-0.70	8	0.00	7	0.00	5	0.00	1
11	Min. 0.00	1	0.00	1	-0.91	1	0.00	2	0.00	4	0.00	1
12	Max 0.00	1	0.00	1	-0.67	4	0.00	6	0.00	8	0.00	1
12	Min. 0.00	1	0.00	1	-0.79	5	0.00	3	0.00	1	0.00	1
13	Max 0.00	1	0.00	1	-0.58	2	0.00	8	0.00	6	0.00	1
13	Min. 0.00	1	0.00	1	-0.68	7	0.00	1	0.00	3	0.00	1
14	Max 0.00	1	0.00	1	-0.68	4	0.00	7	0.00	8	0.00	1
14	Min. 0.00	1	0.00	1	-0.89	5	0.00	2	0.00	1	0.00	1
15	Max 0.00	1	0.00	1	-0.49	2	0.00	7	0.00	6	0.00	1
15	Min. 0.00	1	0.00	1	-0.58	7	0.00	2	0.00	3	0.00	1
16	Max 0.00	1	0.00	1	-0.61	4	0.00	7	0.00	8	0.00	1
16	Min. 0.00	1	0.00	1	-0.78	5	0.00	2	0.00	1	0.00	1
17	Max 0.00	1	0.00	1	-0.44	2	0.00	7	0.00	8	0.00	1
17	Min. 0.00	1	0.00	1	-0.54	7	0.00	2	0.00	1	0.00	1
18	Max 0.00	1	0.00	1	-0.40	4	0.00	5	0.00	3	0.00	1
18	Min. 0.00	1	0.00	1	-0.48	5	0.00	4	0.00	6	0.00	1
19	Max 0.00	1	0.00	1	-0.67	8	0.00	6	0.00	8	0.00	1
19	Min. 0.00	1	0.00	1	-0.79	1	0.00	3	0.00	1	0.00	1
20	Max 0.00	1	0.00	1	-0.58	6	0.00	8	0.00	6	0.00	1
20	Min. 0.00	1	0.00	1	-0.68	3	0.00	1	0.00	3	0.00	1
21	Max 0.00	1	0.00	1	-0.47	2	0.00	8	0.00	2	0.00	1
21	Min. 0.00	1	0.00	1	-0.56	7	0.00	1	0.00	7	0.00	1
22	Max 0.00	1	0.00	1	-0.40	8	0.00	6	0.00	3	0.00	1
22	Min. 0.00	1	0.00	1	-0.48	1	0.00	3	0.00	6	0.00	1
23	Max 0.00	1	0.00	1	-0.50	6	0.00	8	0.00	2	0.00	1
23	Min. 0.00	1	0.00	1	-0.59	3	0.00	1	0.00	7	0.00	1
24	Max 0.00	1	0.00	1	-0.38	2	0.00	5	0.00	4	0.00	1
24	Min. 0.00	1	0.00	1	-0.44	7	0.00	4	0.00	5	0.00	1
25	Max 0.00	1	0.00	1	-0.67	8	0.00	7	0.00	8	0.00	1
25	Min. 0.00	1	0.00	1	-0.80	1	0.00	2	0.00	1	0.00	1

26	Max	0.00	1	0.00	1	-0.56	6	0.00	5	0.00	2	0.00	1
26	Min.	0.00	1	0.00	1	-0.67	3	0.00	4	0.00	7	0.00	1
27	Max	0.00	1	0.00	1	-0.44	8	0.00	6	0.00	7	0.00	1
27	Min.	0.00	1	0.00	1	-0.53	1	0.00	3	0.00	2	0.00	1
28	Max	0.00	1	0.00	1	-0.54	6	0.00	7	0.00	7	0.00	1
28	Min.	0.00	1	0.00	1	-0.68	3	0.00	2	0.00	2	0.00	1
29	Max	0.00	1	0.00	1	-0.38	6	0.00	6	0.00	4	0.00	1
29	Min.	0.00	1	0.00	1	-0.43	3	0.00	3	0.00	5	0.00	1
30	Max	0.00	1	0.00	1	-0.63	2	0.00	7	0.00	5	0.00	1
30	Min.	0.00	1	0.00	1	-0.82	7	0.00	2	0.00	4	0.00	1
31	Max	0.00	1	0.00	1	-0.69	8	0.00	7	0.00	8	0.00	1
31	Min.	0.00	1	0.00	1	-0.82	1	0.00	2	0.00	1	0.00	1
32	Max	0.00	1	0.00	1	-0.70	6	0.00	7	0.00	8	0.00	1
32	Min.	0.00	1	0.00	1	-0.79	3	0.00	2	0.00	1	0.00	1
33	Max	0.00	1	0.00	1	-0.69	6	0.00	7	0.00	2	0.00	1
33	Min.	0.00	1	0.00	1	-0.78	3	0.00	2	0.00	7	0.00	1
34	Max	0.00	1	0.00	1	-0.66	8	0.00	7	0.00	1	0.00	1
34	Min.	0.00	1	0.00	1	-0.76	1	0.00	2	0.00	8	0.00	1
35	Max	0.00	1	0.00	1	-0.59	6	0.00	6	0.00	3	0.00	1
35	Min.	0.00	1	0.00	1	-0.70	3	0.00	3	0.00	6	0.00	1
36	Max	0.00	1	0.00	1	-0.47	8	0.00	6	0.00	2	0.00	1
36	Min.	0.00	1	0.00	1	-0.57	1	0.00	3	0.00	7	0.00	1
37	Max	0.00	1	0.00	1	-0.68	2	0.00	7	0.00	5	0.00	1
37	Min.	0.00	1	0.00	1	-0.89	7	0.00	2	0.00	4	0.00	1
38	Max	0.00	1	0.00	1	-0.42	6	0.00	7	0.00	3	0.00	1
38	Min.	0.00	1	0.00	1	-0.53	3	0.00	2	0.00	6	0.00	1
39	Max	0.00	1	0.00	1	-0.68	4	0.00	7	0.00	6	0.00	1
39	Min.	0.00	1	0.00	1	-0.88	5	0.00	2	0.00	3	0.00	1
40	Max	0.00	1	0.00	1	-0.61	8	0.00	6	0.00	8	0.00	1
40	Min.	0.00	1	0.00	1	-0.78	1	0.00	3	0.00	1	0.00	1
41	Max	0.00	1	0.00	1	-0.45	6	0.00	6	0.00	4	0.00	1
41	Min.	0.00	1	0.00	1	-0.56	3	0.00	3	0.00	5	0.00	1
42	Max	0.00	1	0.00	1	-0.58	2	0.00	8	0.00	6	0.00	1
42	Min.	0.00	1	0.00	1	-0.68	7	0.00	1	0.00	3	0.00	1
43	Max	0.00	1	0.00	1	-0.52	2	0.00	7	0.00	6	0.00	1
43	Min.	0.00	1	0.00	1	-0.62	7	0.00	2	0.00	3	0.00	1
44	Max	0.00	1	0.00	1	-0.45	4	0.00	5	0.00	5	0.00	1
44	Min.	0.00	1	0.00	1	-0.55	5	0.00	4	0.00	4	0.00	1
45	Max	0.00	1	0.00	1	-0.56	6	0.00	5	0.00	2	0.00	1
45	Min.	0.00	1	0.00	1	-0.67	3	0.00	4	0.00	7	0.00	1
46	Max	0.00	1	0.00	1	-0.52	6	0.00	7	0.00	7	0.00	1
46	Min.	0.00	1	0.00	1	-0.66	3	0.00	2	0.00	2	0.00	1
47	Max	0.00	1	0.00	1	-0.58	6	0.00	6	0.00	2	0.00	1
47	Min.	0.00	1	0.00	1	-0.68	3	0.00	3	0.00	7	0.00	1
48	Max	0.00	1	0.00	1	-0.46	8	0.00	6	0.00	2	0.00	1
48	Min.	0.00	1	0.00	1	-0.55	1	0.00	3	0.00	7	0.00	1
101	Max	-0.03	8	0.33	1	-0.70	4	0.00	6	0.00	8	0.00	2
101	Min.	-0.16	1	-0.00	8	-0.83	5	0.00	3	0.00	1	0.00	7
102	Max	-0.03	8	0.50	2	-0.70	2	0.00	6	0.00	2	0.00	2
102	Min.	-0.16	1	-0.00	7	-0.80	7	0.00	3	0.00	7	0.00	7

103	Max	-0.03	8	0.58	2	-0.70	2	0.00	6	0.00	2	0.00	4
103	Min.	-0.16	1	-0.01	7	-0.78	7	0.00	3	0.00	7	0.00	5
104	Max	-0.03	8	0.54	2	-0.67	4	0.00	8	0.00	5	0.00	8
104	Min.	-0.16	1	-0.01	7	-0.77	5	0.00	1	0.00	4	0.00	1
105	Max	-0.03	8	0.41	4	-0.61	2	0.00	8	0.00	7	0.00	8
105	Min.	-0.16	1	-0.02	5	-0.72	7	0.00	1	0.00	2	0.00	1
106	Max	-0.02	8	0.27	4	-0.48	4	0.00	5	0.00	4	0.00	5
106	Min.	-0.12	1	-0.07	5	-0.62	5	0.00	4	0.00	5	0.00	4
108	Max	-0.02	8	0.27	4	-0.46	4	0.00	6	0.00	7	0.00	6
108	Min.	-0.13	1	-0.07	5	-0.57	5	0.00	3	0.00	2	0.00	3
110	Max	-0.02	8	0.42	4	-0.50	2	0.00	7	0.00	6	0.00	4
110	Min.	-0.13	1	-0.03	5	-0.60	7	0.00	2	0.00	3	0.00	5
112	Max	-0.03	8	0.33	1	-0.73	4	0.00	6	0.00	8	0.00	2
112	Min.	-0.28	1	-0.00	8	-0.86	5	0.00	3	0.00	1	0.00	7
113	Max	-0.02	8	0.41	4	-0.63	2	0.00	8	0.00	7	0.00	8
113	Min.	-0.12	1	-0.02	5	-0.75	7	0.00	1	0.00	2	0.00	1
115	Max	-0.02	8	0.41	4	-0.50	2	0.00	7	0.00	6	0.00	4
115	Min.	-0.14	1	-0.02	5	-0.60	7	0.00	2	0.00	3	0.00	5
118	Max	-0.02	8	0.27	4	-0.41	4	0.00	5	0.00	3	0.00	2
118	Min.	-0.13	1	-0.07	5	-0.49	5	0.00	4	0.00	6	0.00	7
119	Max	-0.02	8	0.32	1	-0.72	8	0.00	6	0.00	8	0.00	6
119	Min.	-0.31	1	-0.00	8	-0.86	1	0.00	3	0.00	1	0.00	3
120	Max	-0.02	8	0.41	4	-0.62	6	0.00	8	0.00	7	0.00	4
120	Min.	-0.11	1	-0.02	5	-0.75	3	0.00	1	0.00	2	0.00	5
121	Max	-0.02	8	0.41	4	-0.48	2	0.00	5	0.00	8	0.00	4
121	Min.	-0.13	1	-0.02	5	-0.57	7	0.00	4	0.00	1	0.00	5
122	Max	-0.01	8	0.26	4	-0.42	8	0.00	6	0.00	4	0.00	4
122	Min.	-0.13	1	-0.07	5	-0.49	1	0.00	3	0.00	5	0.00	5
123	Max	-0.02	8	0.41	4	-0.51	6	0.00	2	0.00	8	0.00	4
123	Min.	-0.13	1	-0.02	5	-0.60	3	0.00	7	0.00	1	0.00	5
125	Max	-0.02	8	0.32	1	-0.73	8	0.00	7	0.00	8	0.00	8
125	Min.	-0.26	1	-0.00	8	-0.87	1	0.00	2	0.00	1	0.00	1
126	Max	-0.02	8	0.41	4	-0.63	2	0.00	1	0.00	7	0.00	2
126	Min.	-0.13	1	-0.02	5	-0.75	7	0.00	8	0.00	2	0.00	7
127	Max	-0.00	7	0.26	4	-0.45	8	0.00	5	0.00	4	0.00	6
127	Min.	-0.12	2	-0.07	5	-0.54	1	0.00	4	0.00	5	0.00	3
128	Max	0.00	7	0.27	4	-0.55	6	0.00	5	0.00	8	0.00	2
128	Min.	-0.12	2	-0.07	5	-0.70	3	0.00	4	0.00	1	0.00	7
131	Max	-0.02	7	0.32	1	-0.71	8	0.00	7	0.00	8	0.00	8
131	Min.	-0.16	2	-0.00	8	-0.84	1	0.00	2	0.00	1	0.00	1
132	Max	-0.02	7	0.32	4	-0.71	6	0.00	7	0.00	6	0.00	4
132	Min.	-0.16	2	-0.05	5	-0.80	3	0.00	2	0.00	3	0.00	5
133	Max	-0.02	7	0.34	4	-0.70	6	0.00	7	0.00	2	0.00	2
133	Min.	-0.16	2	-0.06	5	-0.79	3	0.00	2	0.00	7	0.00	7
134	Max	-0.02	7	0.38	4	-0.67	8	0.00	5	0.00	1	0.00	2
134	Min.	-0.16	2	-0.04	5	-0.77	1	0.00	4	0.00	8	0.00	7
135	Max	-0.02	7	0.41	4	-0.61	6	0.00	5	0.00	7	0.00	2
135	Min.	-0.15	2	-0.02	5	-0.72	3	0.00	4	0.00	2	0.00	7
136	Max	-0.01	7	0.28	4	-0.48	8	0.00	1	0.00	3	0.00	8
136	Min.	-0.12	2	-0.06	5	-0.58	1	0.00	8	0.00	6	0.00	1

138	Max	-0.01	7	0.27	4	-0.43	6	0.00	1	0.00	5	0.00	6
138	Min.	-0.12	2	-0.07	5	-0.53	3	0.00	8	0.00	4	0.00	3
206	Max	-0.01	8	0.28	4	-0.49	4	0.00	5	0.00	3	0.00	2
206	Min.	-0.13	1	-0.08	5	-0.62	5	0.00	4	0.00	6	0.00	7
207	Max	-0.01	8	0.34	4	-0.61	2	0.00	7	0.00	5	0.00	4
207	Min.	-0.14	1	-0.08	5	-0.79	7	0.00	2	0.00	4	0.00	5
208	Max	-0.01	8	0.28	4	-0.47	4	0.00	5	0.00	7	0.00	2
208	Min.	-0.14	1	-0.08	5	-0.57	5	0.00	4	0.00	2	0.00	7
209	Max	-0.01	8	0.41	4	-0.69	2	0.00	7	0.00	7	0.00	3
209	Min.	-0.16	1	-0.08	5	-0.89	7	-0.00	2	0.00	2	0.00	6
211	Max	-0.02	8	0.46	4	-0.72	8	0.00	7	0.00	5	0.00	3
211	Min.	-0.17	1	-0.08	5	-0.93	1	-0.00	2	0.00	4	0.00	6
214	Max	-0.02	8	0.46	4	-0.70	4	0.00	7	0.00	8	0.00	7
214	Min.	-0.18	1	-0.07	5	-0.91	5	-0.00	2	0.00	1	0.00	2
216	Max	-0.02	8	0.42	4	-0.62	4	0.00	7	0.00	6	0.00	7
216	Min.	-0.17	1	-0.07	5	-0.80	5	0.00	2	0.00	3	0.00	2
217	Max	-0.02	8	0.36	4	-0.44	2	0.00	5	0.00	8	0.00	6
217	Min.	-0.16	1	-0.06	5	-0.55	7	0.00	4	0.00	1	0.00	3
218	Max	-0.01	8	0.28	4	-0.42	4	0.00	5	0.00	3	0.00	6
218	Min.	-0.15	1	-0.08	5	-0.49	5	0.00	4	0.00	6	0.00	3
222	Max	-0.01	7	0.28	4	-0.42	8	0.00	6	0.00	3	0.00	4
222	Min.	-0.14	2	-0.08	5	-0.50	1	0.00	3	0.00	6	0.00	5
224	Max	-0.02	8	0.36	4	-0.39	2	0.00	5	0.00	4	0.00	2
224	Min.	-0.17	1	-0.06	5	-0.45	7	0.00	4	0.00	5	0.00	7
227	Max	-0.00	7	0.28	4	-0.45	8	0.00	6	0.00	7	0.00	4
227	Min.	-0.14	2	-0.07	5	-0.55	1	0.00	3	0.00	2	0.00	5
228	Max	-0.00	7	0.33	4	-0.55	6	0.00	6	0.00	5	0.00	2
228	Min.	-0.15	2	-0.08	5	-0.70	3	0.00	3	0.00	4	0.00	7
229	Max	-0.02	8	0.36	4	-0.39	6	0.00	6	0.00	4	0.00	4
229	Min.	-0.18	1	-0.06	5	-0.45	3	0.00	3	0.00	5	0.00	5
230	Max	-0.00	7	0.40	4	-0.65	2	0.00	8	0.00	5	0.00	3
230	Min.	-0.16	2	-0.08	5	-0.84	7	-0.00	1	0.00	4	0.00	6
237	Max	-0.00	7	0.45	4	-0.70	2	0.00	7	0.00	5	0.00	3
237	Min.	-0.18	2	-0.08	5	-0.91	7	-0.00	2	0.00	4	0.00	6
239	Max	-0.01	7	0.45	4	-0.70	4	0.00	7	0.00	8	0.00	7
239	Min.	-0.18	2	-0.07	5	-0.90	5	-0.00	2	0.00	1	0.00	2
240	Max	-0.01	7	0.41	4	-0.63	8	0.00	7	0.00	8	0.00	5
240	Min.	-0.17	2	-0.06	5	-0.81	1	0.00	2	0.00	1	0.00	4
241	Max	-0.01	8	0.36	4	-0.46	6	0.00	6	0.00	4	0.00	8
241	Min.	-0.16	1	-0.06	5	-0.57	3	0.00	3	0.00	5	0.00	1

Spostamenti relativi massimi allo stato limite ultimo

Simbologia

N1 = Nodo1

N2 = Nodo2

h = Altezza teorica

δ = Spostamento relativo tra i due nodi

δ/h = Rapporto (moltiplicato per 1000) tra lo spostamento relativo e l'altezza

CC= Numero della combinazione delle condizioni di carico elementari

N1	N2	h	δ	δ/h	CC
		<m>	<cm>		
1	101	4.16	0.24	0.58	1
2	102	4.16	0.35	0.85	1
3	103	4.16	0.40	0.96	1
4	104	4.16	0.37	0.89	1
5	105	4.16	0.29	0.69	1
6	106	4.16	0.19	0.45	2
106	206	0.75	0.01	0.12	4
7	-18	4.16	0.19	0.47	2
-18	207	0.75	0.04	0.58	1
8	108	4.16	0.19	0.45	2
108	208	0.75	0.01	0.14	2
9	-19	4.16	0.23	0.55	2
-19	209	0.75	0.06	0.74	2
10	110	4.16	0.29	0.70	2
11	-23	4.16	0.25	0.61	2
-23	211	0.75	0.06	0.82	2
12	112	4.16	0.29	0.69	1
13	113	4.16	0.28	0.68	1
14	-24	4.16	0.26	0.61	2
-24	214	0.75	0.06	0.80	2
15	115	4.16	0.28	0.68	2
16	-25	4.16	0.24	0.57	2
-25	216	0.75	0.05	0.67	4
17	-26	4.16	0.22	0.54	2
-26	217	0.75	0.03	0.35	2
18	118	4.16	0.19	0.45	2
118	218	0.75	0.01	0.15	6
19	119	4.16	0.30	0.73	1
20	120	4.16	0.28	0.67	1
21	121	4.16	0.28	0.68	2
22	122	4.16	0.19	0.45	2
122	222	0.75	0.01	0.16	6
23	123	4.16	0.28	0.68	2
24	-27	4.16	0.19	0.46	2
-27	224	0.75	0.06	0.78	1
25	125	4.16	0.28	0.68	1
26	126	4.16	0.28	0.68	1
27	127	4.16	0.19	0.45	2
127	227	0.75	0.01	0.15	2
28	128	4.16	0.19	0.46	2
128	228	0.75	0.04	0.57	1
29	-30	4.16	0.20	0.48	2
-30	229	0.75	0.05	0.71	2
30	-32	4.16	0.22	0.53	2
-32	230	0.75	0.06	0.81	1
31	131	4.16	0.24	0.58	1
32	132	4.16	0.22	0.53	4

33 133 4.16 0.23 0.56 4
 34 134 4.16 0.25 0.61 4
 35 135 4.16 0.29 0.69 2
 36 136 4.16 0.20 0.47 2
 37 -34 4.16 0.25 0.60 2
 -34 237 0.75 0.06 0.84 2
 38 138 4.16 0.19 0.45 2
 39 -35 4.16 0.25 0.61 2
 -35 239 0.75 0.06 0.79 2
 40 -36 4.16 0.24 0.58 2
 -36 240 0.75 0.05 0.65 3
 41 -37 4.16 0.22 0.53 2
 -37 241 0.75 0.03 0.42 1

Reazioni vincolari

Simbologia

Nodo = Numero del nodo

Rx = Reazione vincolare (forza) in dir. X

CC = Numero della combinazione delle condizioni di carico elementari

Ry = Reazione vincolare (forza) in dir. Y

Rz = Reazione vincolare (forza) in dir. Z

Mx = Reazione vincolare (momento) intorno all'asse X

My = Reazione vincolare (momento) intorno all'asse Y

Mz = Reazione vincolare (momento) intorno all'asse Z

Nodo	Rx <kg>	CC Ry <kg>	CC Rz <kg>	CC Mx <kgm>	CC My <kgm>						
-17	Max 0.00	1 0.00	1 0.00	3 0.00	4 0.00	5 0.00	1				
-17	Min. 0.00	1 0.00	1 0.00	6 0.00	5 0.00	4 0.00	1				
-16	Max 0.00	1 0.00	1 0.00	3 0.00	4 0.00	2 0.00	1				
-16	Min. 0.00	1 0.00	1 0.00	6 0.00	5 0.00	7 0.00	1				
-15	Max 0.00	1 0.00	1 0.00	6 0.00	3 0.00	7 0.00	1				
-15	Min. 0.00	1 0.00	1 0.00	3 0.00	6 0.00	2 0.00	1				
-14	Max 0.00	1 0.00	1 0.00	7 0.00	6 0.00	6 0.00	1				
-14	Min. 0.00	1 0.00	1 0.00	2 0.00	3 0.00	3 0.00	1				
-13	Max 0.00	1 0.00	1 0.00	7 0.00	7 0.00	8 0.00	1				
-13	Min. 0.00	1 0.00	1 0.00	2 0.00	2 0.00	1 0.00	1				
-12	Max 0.00	1 0.00	1 0.00	2 0.00	7 0.00	6 0.00	1				
-12	Min. 0.00	1 0.00	1 0.00	7 0.00	2 0.00	3 0.00	1				
-11	Max 0.00	1 0.00	1 0.00	6 0.00	5 0.00	3 0.00	1				
-11	Min. 0.00	1 0.00	1 0.00	3 0.00	4 0.00	6 0.00	1				
-10	Max 0.00	1 0.00	1 0.00	8 0.00	3 0.00	2 0.00	1				
-10	Min. 0.00	1 0.00	1 0.00	1 0.00	6 0.00	7 0.00	1				
-9	Max 0.00	1 0.00	1 0.00	3 0.00	3 0.00	4 0.00	1				
-9	Min. 0.00	1 0.00	1 0.00	6 0.00	6 0.00	5 0.00	1				
-8	Max 0.00	1 0.00	1 0.00	3 0.00	6 0.00	6 0.00	1				
-8	Min. 0.00	1 0.00	1 0.00	6 0.00	3 0.00	3 0.00	1				
-7	Max 0.00	1 0.00	1 0.00	7 0.00	6 0.00	8 0.00	1				

-7	Min. 0.00	1	0.00	1	0.00	2	0.00	3	0.00	1	0.00	1
-6	Max 0.00	1	0.00	1	0.00	2	0.00	8	0.00	5	0.00	1
-6	Min. 0.00	1	0.00	1	0.00	7	0.00	1	0.00	4	0.00	1
-5	Max 0.00	1	0.00	1	0.00	5	0.00	3	0.00	4	0.00	1
-5	Min. 0.00	1	0.00	1	0.00	4	0.00	6	0.00	5	0.00	1
-4	Max 0.00	1	0.00	1	0.00	7	0.00	1	0.00	8	0.00	1
-4	Min. 0.00	1	0.00	1	0.00	2	0.00	8	0.00	1	0.00	1
-3	Max 0.00	1	0.00	1	0.00	2	0.00	6	0.00	3	0.00	1
-3	Min. 0.00	1	0.00	1	0.00	7	0.00	3	0.00	6	0.00	1
-2	Max 0.00	1	0.00	1	0.00	2	0.00	8	0.00	3	0.00	1
-2	Min. 0.00	1	0.00	1	0.00	7	0.00	1	0.00	6	0.00	1
-1	Max 0.00	1	0.00	1	0.00	6	0.00	6	0.00	2	0.00	1
-1	Min. 0.00	1	0.00	1	0.00	3	0.00	3	0.00	7	0.00	1
1	Max 1662.50	2	186.36	7	0.00	5	0.00	6	0.00	5	4.49	7
1	Min. 179.41	7	-912.62	2	0.00	4	0.00	3	0.00	4	-277.26	2
2	Max 172.48	2	0.00	1	0.00	7	0.00	3	0.00	3	0.00	1
2	Min. 25.08	7	0.00	1	0.00	2	0.00	2	0.00	6	0.00	1
3	Max 160.10	1	0.00	1	0.00	2	0.00	1	0.00	3	0.00	1
3	Min. 13.81	8	0.00	1	0.00	7	0.00	8	0.00	2	0.00	1
4	Max 127.30	1	0.00	1	0.00	6	0.00	6	0.00	4	0.00	1
4	Min. -17.90	8	0.00	1	0.00	3	0.00	1	0.00	5	0.00	1
5	Max 861.97	1	195.93	5	0.00	1	0.00	1	0.00	1	143.47	1
5	Min. -512.35	8	-1183.93	4	0.00	8	0.00	8	0.00	8	7.48	8
6	Max 1843.22	5	190.83	5	0.00	4	0.00	4	0.00	3	-18.51	4
6	Min. 893.88	4	-759.22	4	0.00	5	0.00	5	0.00	6	-48.70	5
7	Max 633.18	5	45.26	5	0.00	8	0.00	5	0.00	4	8.50	5
7	Min. 295.46	4	-272.64	4	0.00	1	0.00	4	0.00	5	-106.44	4
8	Max 188.38	5	-49.23	6	0.00	6	0.00	1	0.00	5	6.07	3
8	Min. 11.49	4	-416.04	3	0.00	3	0.00	8	0.00	4	-10.31	6
9	Max 453.75	5	47.52	5	0.00	4	0.00	6	0.00	5	-0.07	6
9	Min. 149.89	4	-224.18	4	0.00	5	0.00	1	0.00	4	-95.37	3
10	Max 51.30	1	0.00	1	0.00	7	0.00	2	0.00	1	0.00	1
10	Min. -61.30	8	0.00	1	0.00	2	0.00	7	0.00	8	0.00	1
11	Max 275.97	5	22.60	6	0.00	1	0.00	4	0.00	5	-6.47	6
11	Min. 21.97	4	-262.44	3	0.00	8	0.00	5	0.00	4	-40.66	3
12	Max 0.00	1	2.44	7	0.00	6	0.00	4	0.00	5	0.00	1
12	Min. 0.00	1	-370.98	2	0.00	3	0.00	5	0.00	4	0.00	1
13	Max 0.00	1	24.75	5	0.00	7	0.00	2	0.00	4	0.00	1
13	Min. 0.00	1	-454.13	4	0.00	2	0.00	7	0.00	1	0.00	1
14	Max 124.66	6	-16.44	6	0.00	5	0.00	4	0.00	7	34.41	2
14	Min. -151.72	3	-346.43	3	0.00	4	0.00	5	0.00	2	-15.21	7
15	Max 0.00	1	0.00	1	0.00	1	0.00	2	0.00	2	0.00	1
15	Min. 0.00	1	0.00	1	0.00	8	0.00	7	0.00	7	0.00	1
16	Max -38.42	6	-79.52	6	0.00	7	0.00	6	0.00	5	80.48	2
16	Min. -377.14	3	-522.20	3	0.00	2	0.00	1	0.00	4	-12.70	7
17	Max -484.88	6	-250.52	6	0.00	1	0.00	7	0.00	7	33.61	3
17	Min. -1572.25	3	-1179.77	3	0.00	8	0.00	2	0.00	2	-15.34	6
18	Max 327.76	1	111.58	5	0.00	6	0.00	2	0.00	5	16.94	7
18	Min. 63.20	8	-870.15	4	0.00	3	0.00	7	0.00	4	0.20	2
19	Max 0.00	1	0.42	7	0.00	5	0.00	6	0.00	4	0.00	1

19	Min. 0.00	1	-361.76	2	0.00	4	0.00	1	0.00	1	0.00	1
20	Max 0.00	1	2.75	5	0.00	7	0.00	2	0.00	5	0.00	1
20	Min. 0.00	1	-467.00	4	0.00	2	0.00	7	0.00	2	0.00	1
21	Max 0.00	1	0.00	1	0.00	7	0.00	2	0.00	2	0.00	1
21	Min. 0.00	1	0.00	1	0.00	2	0.00	7	0.00	7	0.00	1
22	Max 344.23	1	257.00	5	0.00	4	0.00	1	0.00	5	28.35	5
22	Min. 60.56	8	-766.72	4	0.00	5	0.00	8	0.00	4	2.38	4
23	Max 0.00	1	0.00	1	0.00	6	0.00	7	0.00	1	0.00	1
23	Min. 0.00	1	0.00	1	0.00	3	0.00	2	0.00	4	0.00	1
24	Max 29.36	2	-91.36	6	0.00	5	0.00	3	0.00	1	7.59	7
24	Min. -267.03	7	-911.05	3	0.00	4	0.00	6	0.00	8	-31.67	2
25	Max 0.00	1	14.79	6	0.00	4	0.00	1	0.00	1	0.00	1
25	Min. 0.00	1	-353.23	3	0.00	5	0.00	8	0.00	8	0.00	1
26	Max 0.00	1	1.65	6	0.00	3	0.00	3	0.00	7	0.00	1
26	Min. 0.00	1	-470.56	3	0.00	6	0.00	2	0.00	2	0.00	1
27	Max 1995.22	5	624.98	5	0.00	4	0.00	1	0.00	4	-2.54	3
27	Min. 883.29	4	-554.80	4	0.00	5	0.00	8	0.00	5	-7.17	6
28	Max 1499.12	5	28.37	5	0.00	2	0.00	8	0.00	5	10.60	7
28	Min. 609.33	4	-454.69	4	0.00	7	0.00	1	0.00	4	-82.88	2
29	Max 16.29	2	145.15	5	0.00	8	0.00	7	0.00	3	24.54	5
29	Min. -339.22	7	-638.74	4	0.00	1	0.00	2	0.00	2	-14.02	4
30	Max 541.32	5	22.89	6	0.00	3	0.00	4	0.00	5	-0.75	6
30	Min. 241.59	4	-263.06	3	0.00	6	0.00	5	0.00	4	-96.72	3
31	Max 1545.35	2	-103.15	6	0.00	8	0.00	8	0.00	8	143.11	1
31	Min. 36.71	7	-1189.81	3	0.00	1	0.00	1	0.00	1	4.71	8
32	Max 166.16	2	0.00	1	0.00	4	0.00	3	0.00	7	0.00	1
32	Min. 10.65	7	0.00	1	0.00	5	0.00	6	0.00	2	0.00	1
33	Max 157.17	2	0.00	1	0.00	5	0.00	2	0.00	6	0.00	1
33	Min. 0.93	7	0.00	1	0.00	4	0.00	1	0.00	3	0.00	1
34	Max 127.32	1	0.00	1	0.00	8	0.00	6	0.00	5	0.00	1
34	Min. -37.30	8	0.00	1	0.00	1	0.00	1	0.00	4	0.00	1
35	Max 810.42	1	-36.04	6	0.00	6	0.00	5	0.00	5	2.19	7
35	Min. -792.67	8	-1390.20	3	0.00	3	0.00	4	0.00	4	-59.81	2
36	Max 0.00	1	0.00	1	0.00	7	0.00	7	0.00	6	0.00	1
36	Min. 0.00	1	0.00	1	0.00	2	0.00	2	0.00	1	0.00	1
37	Max 314.85	5	40.94	5	0.00	2	0.00	1	0.00	6	-6.01	6
37	Min. 91.37	4	-243.17	4	0.00	5	0.00	8	0.00	1	-41.16	3
38	Max 0.00	1	0.00	1	0.00	6	0.00	3	0.00	8	0.00	1
38	Min. 0.00	1	0.00	1	0.00	3	0.00	6	0.00	1	0.00	1
39	Max 113.17	2	42.82	5	0.00	8	0.00	1	0.00	8	33.19	2
39	Min. -123.63	7	-252.53	4	0.00	1	0.00	8	0.00	1	-15.67	7
40	Max -61.03	2	60.63	5	0.00	1	0.00	3	0.00	1	72.72	4
40	Min. -414.27	7	-301.57	4	0.00	8	0.00	6	0.00	8	-13.95	5
41	Max -582.16	2	65.99	6	0.00	5	0.00	6	0.00	2	47.43	1
41	Min. -1631.46	7	-636.33	3	0.00	4	0.00	3	0.00	7	-0.42	8
42	Max 0.00	1	0.00	1	0.00	7	0.00	1	0.00	2	0.00	1
42	Min. 0.00	1	0.00	1	0.00	2	0.00	8	0.00	7	0.00	1
43	Max 0.00	1	0.00	1	0.00	2	0.00	2	0.00	2	0.00	1
43	Min. 0.00	1	0.00	1	0.00	7	0.00	7	0.00	7	0.00	1
44	Max 0.00	1	0.00	1	0.00	4	0.00	5	0.00	7	0.00	1

44	Min. 0.00	1	0.00	1	0.00	5	0.00	4	0.00	2	0.00	1
45	Max 0.00	1	0.00	1	0.00	7	0.00	6	0.00	6	0.00	1
45	Min. 0.00	1	0.00	1	0.00	2	0.00	3	0.00	3	0.00	1
46	Max 0.00	1	0.00	1	0.00	5	0.00	6	0.00	2	0.00	1
46	Min. 0.00	1	0.00	1	0.00	4	0.00	3	0.00	7	0.00	1
47	Max 0.00	1	0.00	1	0.00	5	0.00	3	0.00	1	0.00	1
47	Min. 0.00	1	0.00	1	0.00	4	0.00	6	0.00	8	0.00	1
48	Max 0.00	1	0.00	1	0.00	4	0.00	1	0.00	7	0.00	1
48	Min. 0.00	1	0.00	1	0.00	5	0.00	8	0.00	2	0.00	1

Tensioni sul terreno

Simbologia

Nodo = Numero del nodo

σ_t = Tensione sul terreno

CC = Numero della combinazione delle condizioni di carico elementari

Nodo	σ_t <kg/cmq>	CC
-17	Max 1.13	3
-17	Min. 0.92	6
-16	Max 1.07	3
-16	Min. 0.86	6
-15	Max 1.13	1
-15	Min. 0.93	8
-14	Max 1.42	3
-14	Min. 1.21	6
-13	Max 1.66	1
-13	Min. 1.41	8
-12	Max 1.39	3
-12	Min. 1.17	6
-11	Max 1.33	3
-11	Min. 1.06	6
-10	Max 1.08	1
-10	Min. 0.90	8
-9	Max 1.08	1
-9	Min. 0.89	8
-8	Max 1.36	3
-8	Min. 1.15	6
-7	Max 1.10	7
-7	Min. 0.89	2
-6	Max 1.26	7
-6	Min. 1.06	2
-5	Max 1.13	5
-5	Min. 0.91	4
-4	Max 1.39	7
-4	Min. 1.18	2
-3	Max 1.24	5
-3	Min. 0.98	4

-2	Max 1.43	7
-2	Min. 1.21	2
-1	Max 1.64	5
-1	Min. 1.40	4
1	Max 1.64	5
1	Min. 1.40	4
2	Max 1.61	7
2	Min. 1.41	2
3	Max 1.59	7
3	Min. 1.40	2
4	Max 1.54	5
4	Min. 1.36	4
5	Max 1.43	7
5	Min. 1.21	2
6	Max 1.25	5
6	Min. 0.98	4
7	Max 1.57	7
7	Min. 1.22	2
8	Max 1.13	5
8	Min. 0.92	4
9	Max 1.78	7
9	Min. 1.37	2
10	Max 1.22	7
10	Min. 1.02	2
11	Max 1.86	1
11	Min. 1.43	8
12	Max 1.62	5
12	Min. 1.38	4
13	Max 1.40	7
13	Min. 1.18	2
14	Max 1.81	5
14	Min. 1.39	4
15	Max 1.19	7
15	Min. 1.00	2
16	Max 1.59	5
16	Min. 1.24	4
17	Max 1.11	7
17	Min. 0.89	2
18	Max 0.98	5
18	Min. 0.82	4
19	Max 1.62	1
19	Min. 1.37	8
20	Max 1.39	3
20	Min. 1.17	6
21	Max 1.14	7
21	Min. 0.96	2
22	Max 0.98	1
22	Min. 0.83	8
23	Max 1.21	3
23	Min. 1.02	6

24	Max 0.89	7
24	Min. 0.77	2
25	Max 1.62	1
25	Min. 1.37	8
26	Max 1.36	3
26	Min. 1.15	6
27	Max 1.08	1
27	Min. 0.90	8
28	Max 1.39	3
28	Min. 1.10	6
29	Max 0.89	3
29	Min. 0.77	6
30	Max 1.67	7
30	Min. 1.29	2
31	Max 1.67	1
31	Min. 1.41	8
32	Max 1.62	3
32	Min. 1.42	6
33	Max 1.59	3
33	Min. 1.41	6
34	Max 1.55	1
34	Min. 1.36	8
35	Max 1.42	3
35	Min. 1.20	6
36	Max 1.16	1
36	Min. 0.96	8
37	Max 1.82	7
37	Min. 1.40	2
38	Max 1.07	3
38	Min. 0.86	6
39	Max 1.80	5
39	Min. 1.39	4
40	Max 1.60	1
40	Min. 1.25	8
41	Max 1.14	3
41	Min. 0.92	6
42	Max 1.40	7
42	Min. 1.18	2
43	Max 1.27	7
43	Min. 1.06	2
44	Max 1.12	5
44	Min. 0.91	4
45	Max 1.36	3
45	Min. 1.15	6
46	Max 1.34	3
46	Min. 1.07	6
47	Max 1.39	3
47	Min. 1.18	6
48	Max 1.13	1
48	Min. 0.93	8

Sollecitazioni aste**Simbologia**

Asta	=	Numero dell'asta
N1	=	Nodo1
N2	=	Nodo2
X	=	Coordinata progressiva rispetto al nodo iniziale
N	=	Sforzo normale
CC	=	Numero della combinazione delle condizioni di carico elementari
Ty	=	Taglio in dir. Y
Mz	=	Momento flettente intorno all'asse Z
Tz	=	Taglio in dir. Z
My	=	Momento flettente intorno all'asse Y
Mx	=	Momento torcente intorno all'asse X

Asta	N1	N2		X	N	CC	Ty	CC	Mz	CC	Tz	CC	My	CC	Mx	CC	
1	1	101	Max	0.00	-17343.60	4	-179.41	7	3569.60	2	912.62	2	201.89	7	277.26	2	
1	1	101	Max	416.00	-15523.60	4	-179.41	7	-356.59	7	912.62	2	1733.10	2	277.26	2	
1	1	101	Min.	0.00	-21933.70	5	-1662.50	2	389.77	7	-186.36	7	-2063.38	2	-4.49	7	
1	1	101	Min.	416.00	-20113.70	5	-1662.50	2	-3346.42	2	-186.36	7	-573.36	7	-4.49	7	
2	2	102	Max	0.00	-5490.39	2	-25.08	7	717.52	2	0.00	1	0.00	1	0.00	1	
2	2	102	Max	416.00	-4216.39	2	-25.08	7	0.00	6	0.00	1	0.00	1	0.00	1	
2	2	102	Min.	0.00	-6544.76	7	-172.48	2	104.31	7	0.00	1	0.00	1	0.00	1	
2	2	102	Min.	416.00	-5270.76	7	-172.48	2	0.00	3	0.00	1	0.00	1	0.00	1	
3	3	103	Max	0.00	-4661.63	5	-13.81	8	666.00	1	0.00	1	0.00	1	0.00	1	
3	3	103	Max	416.00	-3387.63	5	-13.81	8	0.00	1	0.00	1	0.00	1	0.00	1	
3	3	103	Min.	0.00	-4793.86	4	-160.10	1	57.43	8	0.00	1	0.00	1	0.00	1	
3	3	103	Min.	416.00	-3519.86	4	-160.10	1	0.00	8	0.00	1	0.00	1	0.00	1	
4	4	104	Max	0.00	-5745.79	8	17.90	8	529.58	1	0.00	1	0.00	1	0.00	1	
4	4	104	Max	416.00	-4471.79	8	17.90	8	0.00	2	0.00	1	0.00	1	0.00	1	
4	4	104	Min.	0.00	-6516.57	1	-127.30	1	-74.48	8	0.00	1	0.00	1	0.00	1	
4	4	104	Min.	416.00	-5242.57	1	-127.30	1	0.00	7	0.00	1	0.00	1	0.00	1	
5	5	105	Max	0.00	-17071.10	2	512.35	8	1851.85	1	1183.93	4	206.03	5	-7.48	8	
5	5	105	Max	416.00	-15251.10	2	512.35	8	1032.34	8	1183.93	4	2279.70	4	-7.48	8	
5	5	105	Min.	0.00	-22190.50	7	-861.97	1	-1099.03	8	-195.93	5	-2645.44	4	-143.47	1	
5	5	105	Min.	416.00	-20370.50	7	-861.97	1	-1733.95	1	-195.93	5	-609.03	5	-143.47	1	
6	6	106	Max	0.00	-3246.77	4	-708.36	4	6838.30	5	1002.56	1	-412.06	8	48.70	5	
6	6	106	Max	416.00	-1062.77	4	-708.36	4	-324.02	4	1002.55	1	1735.13	1	48.70	5	
6	6	106	Min.	0.00	-4678.22	5	-1840.83	5	2622.77	4	144.78	8	-2435.49	1	18.51	4	
6	6	106	Min.	416.00	-2494.22	5	-1840.83	5	-819.56	5	144.78	8	190.20	8	18.51	4	
6		106	206	Max	0.00	-2300.95	4	-728.76	4	-299.00	4	1369.51	7	468.55	2	58.32	4
6		106	206	Max	74.50	-2137.98	4	-728.76	4	-841.92	4	1369.51	7	886.18	1	58.32	4
6		106	206	Min.	0.00	-3196.32	5	-1690.38	5	-675.43	5	273.78	2	-310.96	7	-46.11	5
6		106	206	Min.	74.50	-3033.35	5	-1690.38	5	-1934.76	5	273.78	2	495.67	8	-46.11	5
7	7	-18	Max	0.00	-11393.00	2	-229.44	4	3080.15	5	359.06	1	-217.99	8	106.44	4	
7	7	-18	Max	416.00	-9572.98	2	-229.44	4	467.83	5	359.06	1	317.91	1	106.44	4	
7	7	-18	Min.	0.00	-15801.00	7	-627.96	5	1125.42	4	63.92	8	-1175.79	1	-8.50	5	
7	7	-18	Min.	416.00	-13981.00	7	-627.96	5	170.94	4	63.92	8	47.94	8	-8.50	5	
7	-18	207	Max	0.00	-9572.98	2	-229.44	4	467.83	5	359.06	1	317.91	1	106.44	4	

7	-18	207	Max	74.50	-9247.04	2	-229.44	4	0.00	7	359.06	1	585.42	1	106.44	4
7	-18	207	Min.	0.00	-13981.00	7	-627.96	5	170.94	4	63.92	8	47.94	8	-8.50	5
7	-18	207	Min.	74.50	-13655.10	7	-627.96	5	0.00	2	63.92	8	95.56	8	-8.50	5
8	8	108	Max	0.00	-8857.91	8	-74.03	8	1761.63	1	75.16	4	384.23	5	10.31	6
8	8	108	Max	416.00	-7583.92	8	-74.03	8	0.00	4	75.16	4	127.61	4	10.31	6
8	8	108	Min.	0.00	-11636.50	1	-423.47	1	307.97	8	-169.59	5	-185.05	4	-6.07	3
8	8	108	Min.	416.00	-10362.50	1	-423.47	1	0.00	5	-169.59	5	-321.26	5	-6.07	3
8	108	208	Max	0.00	-5007.33	8	702.87	7	393.55	2	12.46	8	130.27	4	79.11	1
8	108	208	Max	74.50	-4779.18	8	702.87	7	0.00	1	12.46	8	-269.58	8	79.11	1
8	108	208	Min.	0.00	-6223.29	1	-528.25	2	-523.64	7	-1195.10	1	-507.43	5	-9.13	8
8	108	208	Min.	74.50	-5995.14	1	-528.25	2	0.00	7	-1195.09	1	-988.64	1	-9.13	8
9	9	-19	Max	0.00	-11734.00	8	-97.82	4	2223.33	5	266.96	1	-153.96	8	95.37	3
9	9	-19	Max	416.00	-9913.99	8	-97.82	4	337.69	5	266.96	1	76.60	2	95.37	3
9	9	-19	Min.	0.00	-16090.10	1	-453.28	5	479.80	4	36.16	8	-1035.73	1	0.07	6
9	9	-19	Min.	416.00	-14270.10	1	-453.28	5	72.88	4	36.16	8	-5.31	7	0.07	6
9	-19	209	Max	0.00	-9913.99	8	-97.82	4	337.69	5	266.96	1	76.60	2	95.37	3
9	-19	209	Max	74.50	-9588.06	8	-97.82	4	0.00	5	266.96	1	273.70	1	95.37	3
9	-19	209	Min.	0.00	-14270.10	1	-453.28	5	72.88	4	36.16	8	-5.31	7	0.07	6
9	-19	209	Min.	74.50	-13944.20	1	-453.28	5	0.00	4	36.16	8	23.41	8	0.07	6
10	10	110	Max	0.00	-3570.47	2	61.30	8	213.39	1	0.00	1	0.00	1	0.00	1
10	10	110	Max	416.00	-2296.47	2	61.30	8	0.00	7	0.00	1	0.00	1	0.00	1
10	10	110	Min.	0.00	-4151.67	7	-51.30	1	-255.03	8	0.00	1	0.00	1	0.00	1
10	10	110	Min.	416.00	-2877.67	7	-51.30	1	0.00	2	0.00	1	0.00	1	0.00	1
11	11	-23	Max	0.00	-12053.40	4	33.63	4	1337.12	5	267.36	1	-143.93	8	40.66	3
11	11	-23	Max	416.00	-10233.40	4	33.63	4	203.09	5	267.36	1	42.19	2	40.66	3
11	11	-23	Min.	0.00	-16427.10	5	-272.60	5	-164.96	4	31.28	8	-1074.19	1	6.47	6
11	11	-23	Min.	416.00	-14607.10	5	-272.60	5	-25.06	4	31.28	8	-17.98	7	6.47	6
11	-23	211	Max	0.00	-10233.40	4	33.63	4	203.09	5	267.36	1	42.19	2	40.66	3
11	-23	211	Max	74.50	-9907.49	4	33.63	4	0.00	1	267.36	1	237.20	1	40.66	3
11	-23	211	Min.	0.00	-14607.10	5	-272.60	5	-25.06	4	31.28	8	-17.98	7	6.47	6
11	-23	211	Min.	74.50	-14281.20	5	-272.60	5	0.00	8	31.28	8	9.50	8	6.47	6
12	12	112	Max	0.00	-33408.20	8	2.44	7	1543.28	2	0.00	1	0.00	1	0.00	1
12	12	112	Max	416.00	-32134.20	8	2.44	7	0.00	7	0.00	1	0.00	1	0.00	1
12	12	112	Min.	0.00	-42581.00	1	-370.98	2	-10.16	7	0.00	1	0.00	1	0.00	1
12	12	112	Min.	416.00	-41307.00	1	-370.98	2	0.00	2	0.00	1	0.00	1	0.00	1
13	13	113	Max	0.00	-34531.20	6	24.75	5	1889.18	4	0.00	1	0.00	1	0.00	1
13	13	113	Max	416.00	-33257.20	6	24.75	5	0.00	1	0.00	1	0.00	1	0.00	1
13	13	113	Min.	0.00	-44325.40	3	-454.13	4	-102.94	5	0.00	1	0.00	1	0.00	1
13	13	113	Min.	416.00	-43051.40	3	-454.13	4	0.00	8	0.00	1	0.00	1	0.00	1
14	14	-24	Max	0.00	-11642.60	6	223.11	3	579.52	6	305.88	1	-175.16	8	15.21	7
14	14	-24	Max	416.00	-9822.63	6	223.11	3	88.02	6	305.88	1	104.77	1	15.21	7
14	14	-24	Min.	0.00	-16016.20	3	-118.15	6	-1094.34	3	42.53	8	-1167.69	1	-34.41	2
14	14	-24	Min.	416.00	-14196.20	3	-118.15	6	-166.22	3	42.53	8	1.78	8	-34.41	2
14	-24	214	Max	0.00	-9822.63	6	223.11	3	88.02	6	305.88	1	104.77	1	15.21	7
14	-24	214	Max	74.50	-9496.69	6	223.11	3	0.00	7	305.88	1	332.65	1	15.21	7
14	-24	214	Min.	0.00	-14196.20	3	-118.15	6	-166.22	3	42.53	8	1.78	8	-34.41	2
14	-24	214	Min.	74.50	-13870.30	3	-118.15	6	0.00	2	42.53	8	33.46	8	-34.41	2
15	15	115	Max	0.00	-4065.76	6	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
15	15	115	Max	416.00	-4065.76	6	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
15	15	115	Min.	0.00	-6058.59	3	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1

15	15	115	Min.	416.00	-6058.59	3	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
16	16	-25	Max	0.00	-12144.10	4	481.23	3	-268.39	6	428.19	3	-238.73	6	12.70	7
16	16	-25	Max	416.00	-10324.10	4	481.23	3	-40.77	6	428.19	3	376.40	3	12.70	7
16	16	-25	Min.	0.00	-16790.90	5	54.72	6	-2360.42	3	69.32	6	-1404.88	3	-80.48	2
16	16	-25	Min.	416.00	-14970.90	5	54.72	6	-358.51	3	69.32	6	49.63	6	-80.48	2
16	-25	216	Max	0.00	-10324.10	4	481.23	3	-40.77	6	428.19	3	376.40	3	12.70	7
16	-25	216	Max	74.50	-9998.19	4	481.23	3	0.00	4	428.19	3	695.40	3	12.70	7
16	-25	216	Min.	0.00	-14970.90	5	54.72	6	-358.51	3	69.32	6	49.63	6	-80.48	2
16	-25	216	Min.	74.50	-14644.90	5	54.72	6	0.00	5	69.32	6	101.27	6	-80.48	2
17	17	-26	Max	0.00	-6091.20	2	1790.33	3	-1926.28	6	811.51	3	-430.96	6	15.34	6
17	17	-26	Max	416.00	-3907.20	2	1790.33	3	653.37	3	811.51	3	1008.42	3	15.34	6
17	17	-26	Min.	0.00	-7598.96	7	527.61	6	-6794.39	3	139.63	6	-2367.45	3	-33.61	3
17	17	-26	Min.	416.00	-5414.96	7	527.61	6	268.56	6	139.63	6	149.91	6	-33.61	3
17	-26	217	Max	0.00	-3907.20	2	1790.33	3	653.37	3	811.51	3	1008.42	3	15.34	6
17	-26	217	Max	74.50	-3744.24	2	1790.33	3	1987.17	3	811.51	3	1612.99	3	15.34	6
17	-26	217	Min.	0.00	-5414.96	7	527.61	6	268.56	6	139.63	6	149.91	6	-33.61	3
17	-26	217	Min.	74.50	-5251.99	7	527.61	6	661.62	6	139.63	6	253.93	6	-33.61	3
18	18	118	Max	0.00	-10298.40	4	81.76	7	3773.00	2	-3.18	4	580.44	5	-0.20	2
18	18	118	Max	416.00	-8478.42	4	81.76	7	0.00	5	-3.18	4	-32.65	4	-0.20	2
18	18	118	Min.	0.00	-13178.00	5	-906.97	2	-340.13	7	-214.32	5	-19.41	4	-16.94	7
18	18	118	Min.	416.00	-11358.00	5	-906.97	2	0.00	4	-214.32	5	-311.13	5	-16.94	7
18	118	218	Max	0.00	-5475.82	8	-1127.12	8	2135.86	1	-9.72	8	-53.81	4	47.20	5
18	118	218	Max	74.50	-5149.89	8	-1127.11	8	0.00	8	-9.72	8	-113.09	4	47.20	5
18	118	218	Min.	0.00	-7201.97	1	-2866.93	1	839.70	8	-178.74	1	-292.67	5	-36.56	4
18	118	218	Min.	74.50	-6876.03	1	-2866.93	1	0.00	1	-178.74	1	-373.79	5	-36.56	4
19	19	119	Max	0.00	-32700.70	6	0.42	7	1504.94	2	0.00	1	0.00	1	0.00	1
19	19	119	Max	416.00	-31426.70	6	0.42	7	0.00	2	0.00	1	0.00	1	0.00	1
19	19	119	Min.	0.00	-41175.60	3	-361.76	2	-1.74	7	0.00	1	0.00	1	0.00	1
19	19	119	Min.	416.00	-39901.60	3	-361.76	2	0.00	7	0.00	1	0.00	1	0.00	1
20	20	120	Max	0.00	-31770.80	8	2.75	5	1942.72	4	0.00	1	0.00	1	0.00	1
20	20	120	Max	416.00	-30496.80	8	2.75	5	0.00	1	0.00	1	0.00	1	0.00	1
20	20	120	Min.	0.00	-40337.70	1	-467.00	4	-11.45	5	0.00	1	0.00	1	0.00	1
20	20	120	Min.	416.00	-39063.70	1	-467.00	4	0.00	4	0.00	1	0.00	1	0.00	1
21	21	121	Max	0.00	-2784.79	8	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
21	21	121	Max	416.00	-2784.79	8	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
21	21	121	Min.	0.00	-4271.07	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
21	21	121	Min.	416.00	-4271.07	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
22	22	122	Max	0.00	-10129.00	2	224.28	7	3367.63	2	-47.67	4	684.35	5	-2.38	4
22	22	122	Max	416.00	-8309.00	2	224.28	7	0.00	5	-47.67	4	-96.78	4	-2.38	4
22	22	122	Min.	0.00	-13281.20	7	-809.53	2	-932.99	7	-237.20	5	101.52	4	-28.35	5
22	22	122	Min.	416.00	-11461.20	7	-809.53	2	0.00	4	-237.20	5	-302.41	5	-28.35	5
22	122	222	Max	0.00	-5021.55	2	2624.11	7	-375.69	2	-3.73	4	-129.65	4	25.29	7
22	122	222	Max	74.50	-4695.61	2	2624.11	7	0.00	3	-3.73	4	-132.43	4	25.29	7
22	122	222	Min.	0.00	-6966.34	7	504.28	2	-1954.96	7	-372.54	5	-298.21	5	-23.59	2
22	122	222	Min.	74.50	-6640.40	7	504.28	2	0.00	6	-372.54	5	-575.75	5	-23.59	2
23	23	123	Max	0.00	-3764.02	2	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
23	23	123	Max	416.00	-3764.02	2	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
23	23	123	Min.	0.00	-5426.83	7	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
23	23	123	Min.	416.00	-5426.83	7	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
24	24	-27	Max	0.00	-9147.88	6	-72.57	6	4191.99	3	354.26	3	-252.84	6	31.67	2

24	24	-27	Max	416.00	-7327.88	6	-72.57	6	636.71	3	354.26	3	445.17	3	31.67	2
24	24	-27	Min.	0.00	-11897.70	3	-854.64	3	355.98	6	94.74	6	-1028.54	3	-7.59	7
24	24	-27	Min.	416.00	-10077.70	3	-854.64	3	54.07	6	94.74	6	141.28	6	-7.59	7
24	-27	224	Max	0.00	-7327.88	6	-72.57	6	636.71	3	354.26	3	445.17	3	31.67	2
24	-27	224	Max	74.50	-7001.94	6	-72.57	6	0.00	1	354.26	3	709.09	3	31.67	2
24	-27	224	Min.	0.00	-10077.70	3	-854.64	3	54.07	6	94.74	6	141.28	6	-7.59	7
24	-27	224	Min.	74.50	-9751.80	3	-854.64	3	0.00	8	94.74	6	211.87	6	-7.59	7
25	25	125	Max	0.00	-37795.50	4	14.79	6	1469.43	3	0.00	1	0.00	1	0.00	1
25	25	125	Max	416.00	-36521.50	4	14.79	6	0.00	6	0.00	1	0.00	1	0.00	1
25	25	125	Min.	0.00	-48205.90	5	-353.23	3	-61.53	6	0.00	1	0.00	1	0.00	1
25	25	125	Min.	416.00	-46931.90	5	-353.23	3	0.00	3	0.00	1	0.00	1	0.00	1
26	26	126	Max	0.00	-40094.40	2	1.65	6	1957.54	3	0.00	1	0.00	1	0.00	1
26	26	126	Max	416.00	-38820.40	2	1.65	6	0.00	1	0.00	1	0.00	1	0.00	1
26	26	126	Min.	0.00	-51853.30	7	-470.56	3	-6.87	6	0.00	1	0.00	1	0.00	1
26	26	126	Min.	416.00	-50579.30	7	-470.56	3	0.00	8	0.00	1	0.00	1	0.00	1
27	27	127	Max	0.00	-12093.90	8	-742.27	4	6681.00	5	751.69	2	545.24	7	7.17	6
27	27	127	Max	416.00	-9909.95	8	-742.27	4	-790.07	4	751.69	2	1474.50	2	7.17	6
27	27	127	Min.	0.00	-15986.90	1	-2083.19	5	2297.79	4	-197.18	7	-1652.53	2	2.54	3
27	27	127	Min.	416.00	-13802.90	1	-2083.19	5	-1985.08	5	-197.18	7	-275.05	7	2.54	3
27	127	227	Max	0.00	-4613.93	8	-1949.28	4	512.41	1	18.85	6	362.68	4	71.50	4
27	127	227	Max	74.50	-4450.96	8	-1949.28	4	-1106.31	4	18.85	6	121.53	2	71.50	4
27	127	227	Min.	0.00	-5956.75	1	-3760.73	5	255.63	8	-354.76	3	-204.65	5	-44.80	5
27	127	227	Min.	74.50	-5793.79	1	-3760.72	5	-2379.61	5	-354.76	3	-213.75	7	-44.80	5
28	28	128	Max	0.00	-12098.40	2	-496.47	4	4462.52	5	657.86	1	-648.90	8	82.88	2
28	28	128	Max	416.00	-10278.40	2	-496.47	4	-461.27	4	657.86	1	734.04	1	82.88	2
28	28	128	Min.	0.00	-16848.30	7	-1469.72	5	1604.06	4	214.71	8	-2002.65	1	-10.60	7
28	28	128	Min.	416.00	-15028.30	7	-1469.72	5	-1651.53	5	214.71	8	244.29	8	-10.60	7
28	128	228	Max	0.00	-10157.00	6	1206.07	5	-362.95	4	984.38	3	-50.62	6	224.66	1
28	128	228	Max	74.50	-9831.04	6	1206.07	5	0.00	7	984.38	3	462.60	4	224.66	1
28	128	228	Min.	0.00	-14785.60	3	487.18	4	-898.52	5	-29.43	6	-290.69	3	12.35	8
28	128	228	Min.	74.50	-14459.70	3	487.18	4	0.00	2	-29.43	6	-92.48	5	12.35	8
29	29	-30	Max	0.00	-8977.85	2	194.05	7	2972.68	2	323.87	3	-264.47	6	14.02	4
29	29	-30	Max	416.00	-7157.85	2	194.05	7	451.51	2	323.87	3	394.23	3	14.02	4
29	29	-30	Min.	0.00	-11768.40	7	-606.05	2	-951.83	7	98.24	6	-953.05	3	-24.54	5
29	29	-30	Min.	416.00	-9948.43	7	-606.05	2	-144.57	7	98.24	6	144.23	6	-24.54	5
29	-30	229	Max	0.00	-7157.85	2	194.05	7	451.51	2	323.87	3	394.23	3	14.02	4
29	-30	229	Max	74.50	-6831.92	2	194.05	7	0.00	8	323.87	3	635.51	3	14.02	4
29	-30	229	Min.	0.00	-9948.43	7	-606.05	2	-144.57	7	98.24	6	144.23	6	-24.54	5
29	-30	229	Min.	74.50	-9622.49	7	-606.05	2	0.00	1	98.24	6	217.42	6	-24.54	5
30	30	-32	Max	0.00	-11498.70	4	-179.08	4	2615.81	5	334.67	1	-293.24	8	96.72	3
30	30	-32	Max	416.00	-9678.67	4	-179.08	4	397.30	5	334.67	1	70.33	2	96.72	3
30	30	-32	Min.	0.00	-15771.70	5	-533.29	5	878.37	4	69.26	8	-1330.77	1	0.75	6
30	30	-32	Min.	416.00	-13951.70	5	-533.29	5	133.41	4	69.26	8	-13.99	7	0.75	6
30	-32	230	Max	0.00	-9678.67	4	-179.08	4	397.30	5	334.67	1	70.33	2	96.72	3
30	-32	230	Max	74.50	-9352.74	4	-179.08	4	0.00	4	334.67	1	310.77	1	96.72	3
30	-32	230	Min.	0.00	-13951.70	5	-533.29	5	133.41	4	69.26	8	-13.99	7	0.75	6
30	-32	230	Min.	74.50	-13625.80	5	-533.29	5	0.00	5	69.26	8	46.50	8	0.75	6
31	31	131	Max	0.00	-19062.80	8	-36.71	7	3326.92	2	1189.81	3	-32.16	6	-4.71	8
31	31	131	Max	416.00	-17242.80	8	-36.71	7	-60.96	7	1189.81	3	2685.89	3	-4.71	8
31	31	131	Min.	0.00	-24272.10	1	-1545.35	2	91.75	7	103.15	6	-2263.73	3	-143.11	1

31	31	131	Min.	416.00	-22452.10	1	-1545.35	2	-3101.75	2	103.15	6	396.93	6	-143.11	1
32	32	132	Max	0.00	-5598.73	2	-10.65	7	691.22	2	0.00	1	0.00	1	0.00	1
32	32	132	Max	416.00	-4324.73	2	-10.65	7	0.00	1	0.00	1	0.00	1	0.00	1
32	32	132	Min.	0.00	-6560.47	7	-166.16	2	44.30	7	0.00	1	0.00	1	0.00	1
32	32	132	Min.	416.00	-5286.47	7	-166.16	2	0.00	6	0.00	1	0.00	1	0.00	1
33	33	133	Max	0.00	-4658.03	1	-0.93	7	653.83	2	0.00	1	0.00	1	0.00	1
33	33	133	Max	416.00	-3384.03	1	-0.93	7	0.00	5	0.00	1	0.00	1	0.00	1
33	33	133	Min.	0.00	-4797.44	8	-157.17	2	3.87	7	0.00	1	0.00	1	0.00	1
33	33	133	Min.	416.00	-3523.44	8	-157.17	2	0.00	4	0.00	1	0.00	1	0.00	1
34	34	134	Max	0.00	-5548.43	8	37.30	8	529.65	1	0.00	1	0.00	1	0.00	1
34	34	134	Max	416.00	-4274.43	8	37.30	8	0.00	7	0.00	1	0.00	1	0.00	1
34	34	134	Min.	0.00	-6571.30	1	-127.32	1	-155.17	8	0.00	1	0.00	1	0.00	1
34	34	134	Min.	416.00	-5297.30	1	-127.32	1	0.00	2	0.00	1	0.00	1	0.00	1
35	35	135	Max	0.00	-20216.80	6	792.67	8	1679.60	1	1390.20	3	135.77	6	59.81	2
35	35	135	Max	416.00	-18396.80	6	792.67	8	1544.49	8	1390.20	3	3135.92	3	59.81	2
35	35	135	Min.	0.00	-25622.60	3	-810.42	1	-1753.03	8	36.04	6	-2647.30	3	-2.19	7
35	35	135	Min.	416.00	-23802.60	3	-810.42	1	-1691.74	1	36.04	6	285.70	6	-2.19	7
36	36	136	Max	0.00	-2601.01	8	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
36	36	136	Max	416.00	-2601.01	8	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
36	36	136	Min.	0.00	-3449.61	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
36	36	136	Min.	416.00	-3449.61	1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
37	37	-34	Max	0.00	-11965.10	4	-36.57	4	1551.20	5	264.65	1	-109.82	8	41.16	3
37	37	-34	Max	416.00	-10145.10	4	-36.57	4	235.61	5	264.65	1	23.90	2	41.16	3
37	37	-34	Min.	0.00	-16315.10	5	-316.25	5	179.38	4	20.71	8	-1089.55	1	6.01	6
37	37	-34	Min.	416.00	-14495.10	5	-316.25	5	27.25	4	20.71	8	-36.18	7	6.01	6
37	-34	237	Max	0.00	-10145.10	4	-36.57	4	235.61	5	264.65	1	23.90	2	41.16	3
37	-34	237	Max	74.50	-9819.21	4	-36.57	4	0.00	8	264.65	1	217.12	2	41.16	3
37	-34	237	Min.	0.00	-14495.10	5	-316.25	5	27.25	4	20.71	8	-36.18	7	6.01	6
37	-34	237	Min.	74.50	-14169.20	5	-316.25	5	0.00	1	20.71	8	-16.81	7	6.01	6
38	38	138	Max	0.00	-2158.49	6	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
38	38	138	Max	416.00	-2158.49	6	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
38	38	138	Min.	0.00	-3035.41	3	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
38	38	138	Min.	416.00	-3035.41	3	0.00	1	0.00	1	0.00	1	0.00	1	0.00	1
39	39	-35	Max	0.00	-11623.40	2	174.07	3	581.09	6	233.35	2	76.06	7	15.67	7
39	39	-35	Max	416.00	-9803.41	2	174.07	3	88.26	6	233.35	2	55.51	2	15.67	7
39	39	-35	Min.	0.00	-15954.90	7	-118.47	6	-853.79	3	-30.87	7	-915.24	2	-33.19	2
39	39	-35	Min.	416.00	-14134.90	7	-118.47	6	-129.68	3	-30.87	7	-52.38	7	-33.19	2
39	-35	239	Max	0.00	-9803.41	2	174.07	3	88.26	6	233.35	2	55.51	2	15.67	7
39	-35	239	Max	74.50	-9477.47	2	174.06	3	0.00	8	233.35	2	229.36	2	15.67	7
39	-35	239	Min.	0.00	-14134.90	7	-118.47	6	-129.68	3	-30.87	7	-52.38	7	-33.19	2
39	-35	239	Min.	74.50	-13809.00	7	-118.47	6	0.00	1	-30.87	7	-75.38	7	-33.19	2
40	40	-36	Max	0.00	-12380.30	8	440.43	3	-371.55	6	247.21	2	340.48	7	13.95	5
40	40	-36	Max	416.00	-10560.30	8	440.43	3	-56.43	6	247.21	2	192.97	2	13.95	5
40	40	-36	Min.	0.00	-16918.40	1	75.75	6	-2160.33	3	-114.85	7	-835.42	2	-72.72	4
40	40	-36	Min.	416.00	-15098.40	1	75.75	6	-328.12	3	-114.85	7	-137.28	7	-72.72	4
40	-36	240	Max	0.00	-10560.30	8	440.43	3	-56.43	6	247.21	2	192.97	2	13.95	5
40	-36	240	Max	74.50	-10234.30	8	440.43	3	0.00	2	247.21	2	377.14	2	13.95	5
40	-36	240	Min.	0.00	-15098.40	1	75.75	6	-328.12	3	-114.85	7	-137.28	7	-72.72	4
40	-36	240	Min.	74.50	-14772.50	1	75.75	6	0.00	7	-114.85	7	-222.85	7	-72.72	4
41	41	-37	Max	0.00	-6940.51	6	1678.42	3	-2227.63	6	383.96	2	924.16	7	0.42	8

41	41	-37	Max	416.00	-4756.52	6	1678.42	3	628.02	3	383.96	2	527.95	2	0.42	8
41	41	-37	Min.	0.00	-8591.53	3	606.17	6	-6354.20	3	-306.26	7	-1069.34	2	-47.43	1
41	41	-37	Min.	416.00	-6407.53	3	606.17	6	294.04	6	-306.26	7	-349.89	7	-47.43	1
41	-37	241	Max	0.00	-4756.52	6	1678.42	3	628.02	3	383.96	2	527.95	2	0.42	8
41	-37	241	Max	74.50	-4593.55	6	1678.42	3	1878.44	3	383.96	2	814.00	2	0.42	8
41	-37	241	Min.	0.00	-6407.53	3	606.17	6	294.04	6	-306.26	7	-349.89	7	-47.43	1
41	-37	241	Min.	74.50	-6244.56	3	606.17	6	745.64	6	-306.26	7	-578.05	7	-47.43	1
101	101	102	Max	0.00	1224.79	5	214.18	6	5301.36	3	2684.88	2	-355.21	7	7.58	8
101	101	102	Max	168.54					36.79	8			961.67	8		
101	101	102	Max	382.50	1224.79	5	214.18	6	31.82	7	-1732.99	2	-1500.72	4	7.58	8
101	101	102	Min.	0.00	-1243.77	4	-2883.87	3	-2740.26	6	1707.37	7	-3364.99	2	-10.37	1
101	101	102	Min.	211.57					-2262.94	1			-450.53	1		
101	101	102	Min.	382.50	-1243.77	4	-1421.71	3	-4885.90	2	-2710.50	7	-2317.49	5	-10.37	1
101	102	103	Max	0.00	1095.75	5	214.18	6	31.82	7	2563.49	5	-1500.72	4	7.58	8
101	102	103	Max	214.88					-5118.34	4			1162.15	4		
101	102	103	Max	360.00	1095.75	5	214.18	6	-29.70	7	-1594.51	5	-56.52	4	7.58	8
101	102	103	Min.	0.00	-1312.28	4	-1421.71	3	-4885.90	2	2480.17	4	-2317.49	5	-10.37	1
101	102	103	Min.	221.63					-1433.77	5			527.30	5		
101	102	103	Min.	360.00	-1312.28	4	-45.57	3	-6694.42	2	-1677.83	4	-573.32	5	-10.37	1
101	103	104	Max	0.00	969.61	5	214.18	6	-29.70	7	1842.02	4	-56.52	4	7.58	8
101	103	104	Max	159.38					-5160.84	4			1412.33	4		
101	103	104	Max	340.00	969.61	5	1485.40	2	-79.44	8	-2084.98	4	-469.54	4	7.58	8
101	103	104	Min.	0.00	-1360.04	4	-45.57	3	-6694.42	2	1793.12	5	-573.32	5	-10.37	1
101	103	104	Min.	155.13					-817.97	5			818.58	5		
101	103	104	Min.	340.00	-1360.04	4	-17.09	7	-3861.89	1	-2133.88	5	-1152.60	5	-10.37	1
101	104	105	Max	0.00	870.89	5	1485.41	2	-79.45	8	3110.40	1	-469.60	4	7.58	8
101	104	105	Max	268.80					1500.26	1			3218.09	1		
101	104	105	Max	417.56	870.89	5	3081.58	2	5681.44	2	-1712.40	1	1948.71	1	7.58	8
101	104	105	Min.	0.00	-1370.72	4	-17.09	7	-3861.84	1	2385.04	8	-1152.66	5	-10.37	1
101	104	105	Min.	223.13					-125.93	7			1801.07	7		
101	104	105	Min.	417.56	-1370.72	4	-17.09	7	-159.15	7	-2437.76	8	-762.31	8	-10.37	1
102	-20	-21	Max	0.00	262.10	6	-64.95	8	925.25	2	280.93	1	345.90	7	362.93	3
102	-20	-21	Max	55.88					7.40	7			411.98	7		
102	-20	-21	Max	198.69	262.10	6	114.61	4	172.59	4	-492.09	1	17.90	7	362.93	3
102	-20	-21	Min.	0.00	-801.47	3	-803.13	1	49.95	7	190.07	8	200.34	2	273.96	6
102	-20	-21	Min.	59.61					521.10	2			269.53	2		
102	-20	-21	Min.	198.69	-801.47	3	-223.17	5	-167.63	5	-535.98	8	-79.36	2	273.96	6
102	-21	110	Max	0.00	304.25	6	30.97	5	308.75	4	-750.16	2	186.57	7	0.00	1
102	-21	110	Max	101.51	304.25	6	30.97	5	-71.24	8	-1226.46	2	-960.91	6	0.00	1
102	-21	110	Min.	0.00	-1072.51	3	-1019.54	4	-155.20	5	-1043.43	7	42.27	2	0.00	1
102	-21	110	Min.	101.51	-1072.51	3	-631.51	4	-581.73	1	-1628.42	7	-1176.72	3	0.00	1
102	110	-22	Max	0.00	268.35	6	30.97	5	-71.24	8	1249.94	3	-960.84	6	0.00	1
102	110	-22	Max	259.80					-43.32	5			378.90	5		
102	110	-22	Max	399.68	268.35	6	909.45	1	-0.00	8	-505.68	4	0.03	5	0.00	1
102	110	-22	Min.	0.00	-1026.61	3	-631.54	4	-581.70	1	1069.38	6	-1176.62	3	0.00	1
102	110	-22	Min.	258.55					-884.35	4			365.22	4		
102	110	-22	Min.	399.68	-1026.61	3	17.82	8	-0.05	1	-523.25	5	0.03	4	0.00	1
103	132	131	Max	0.00	1607.69	1	2.58	8	-25.57	8	2786.37	7	-1642.95	8	3.95	6
103	132	131	Max	241.34					-54.84	7			1082.79	7		
103	132	131	Max	382.33	1607.69	1	2.58	8	-15.71	8	-1629.51	7	-66.70	7	3.95	6

103	132	131	Min.	0.00	-234.41	8	-419.77	1	-3024.11	1	1896.98	2	-2534.49	1	-3.50	3
103	132	131	Min.	188.77					-3816.54	1			-486.99	1		
103	132	131	Min.	382.33	-234.41	8	-419.77	1	-4629.02	1	-2518.89	2	-3088.11	2	-3.50	3
103	133	132	Max	0.00	1453.03	1	2.58	8	-32.54	7	1507.98	6	-89.01	8	3.95	6
103	133	132	Max	130.69					-30.97	8			893.42	8		
103	133	132	Max	340.00	1453.03	1	2.58	8	-25.57	8	-2419.02	6	-1642.95	8	3.95	6
103	133	132	Min.	0.00	-256.56	8	-419.77	1	-1598.68	2	1418.18	3	-685.56	1	-3.50	3
103	133	132	Min.	123.25					-2114.26	1			186.96	1		
103	133	132	Min.	340.00	-256.56	8	-419.77	1	-3024.11	1	-2508.82	3	-2534.49	1	-3.50	3
103	134	133	Max	0.00	1296.82	1	2.58	8	208.26	3	2193.71	1	-312.33	8	3.95	6
103	134	133	Max	185.63					-38.83	8			1672.12	8		
103	134	133	Max	360.00	1296.82	1	2.58	8	-32.54	7	-1964.29	1	-88.95	8	3.95	6
103	134	133	Min.	0.00	-258.45	8	-419.77	1	-337.57	6	2141.05	8	-1098.46	1	-3.50	3
103	134	133	Min.	190.13					-883.79	1			984.81	1		
103	134	133	Min.	360.00	-258.45	8	-419.77	1	-1598.67	2	-2016.95	8	-685.51	1	-3.50	3
103	135	134	Max	0.00	1209.28	5	2.58	8	1667.11	1	2689.44	8	1791.84	1	3.95	6
103	135	134	Max	148.76					1042.68	1			3071.37	1		
103	135	134	Max	417.56	1209.28	5	2.58	8	208.26	3	-2133.36	8	-312.29	8	3.95	6
103	135	134	Min.	0.00	-260.94	4	-419.77	1	-54.39	8	1719.22	1	-1473.27	8	-3.50	3
103	135	134	Min.	216.61					-11.02	7			1592.24	7		
103	135	134	Min.	417.56	-260.94	4	-419.77	1	-337.57	6	-3103.57	1	-1098.40	1	-3.50	3
104	105	-20	Max	0.00	-64.97	8	266.03	6	5539.24	2	18187.00	5	2278.42	4	-171.25	2
104	105	-20	Max	132.01					4191.03	1			13474.10	1		
104	105	-20	Max	179.00	-64.97	8	266.03	6	3781.01	2	-4490.78	6	12010.20	1	-171.25	2
104	105	-20	Min.	0.00	-2011.54	1	-1115.48	3	-167.84	7	13284.40	4	-610.54	5	-313.46	7
104	105	-20	Min.	135.37					64.03	8			9178.19	8		
104	105	-20	Min.	179.00	-2011.54	1	-1115.48	3	69.86	7	-6286.78	3	8178.33	8	-313.46	7
104	-20	113	Max	0.00	-129.91	8	13.32	5	2855.76	2	-4718.70	6	11651.90	1	37.28	3
104	-20	113	Max	131.25	-129.91	8	13.32	5	2436.63	2	-18684.80	6	-7182.64	2	37.28	3
104	-20	113	Min.	0.00	-2814.67	1	-323.40	4	19.91	7	-6529.86	3	7899.80	8	24.24	6
104	-20	113	Min.	131.25	-2814.67	1	-323.40	4	32.06	7	-24447.00	3	-8968.31	7	24.24	6
104	113	120	Max	0.00	-131.40	8	13.32	5	2436.63	2	18643.30	7	-7182.64	2	37.28	3
104	113	120	Max	136.38					1970.22	1			4061.29	1		
104	113	120	Max	279.75	-131.40	8	13.32	5	1543.28	2	-15007.20	8	-7979.08	2	37.28	3
104	113	120	Min.	0.00	-2383.80	1	-323.40	4	32.06	7	14533.50	2	-8968.31	7	24.24	6
104	113	120	Min.	138.13					75.59	8			2529.35	8		
104	113	120	Min.	279.75	-2383.80	1	-323.40	4	57.96	7	-19296.30	1	-9899.51	7	24.24	6
104	120	126	Max	0.00	-125.97	8	13.32	5	1543.28	2	19776.90	7	-7979.06	2	37.28	3
104	120	126	Max	147.54					1068.53	1			4799.13	1		
104	120	126	Max	314.75	-125.97	8	13.32	5	665.19	5	-17533.80	8	-11303.30	2	37.28	3
104	120	126	Min.	0.00	-1924.98	1	-323.40	4	57.96	7	15480.00	2	-9899.51	7	24.24	6
104	120	126	Min.	147.54					75.22	8			3257.39	8		
104	120	126	Min.	314.75	-1924.98	1	-323.40	4	-39.93	4	-22354.60	1	-14080.10	7	24.24	6
104	126	-28	Max	0.00	-123.88	8	13.32	5	665.19	5	28234.30	7	-11303.30	2	37.28	3
104	126	-28	Max	171.73	-123.88	8	13.32	5	688.06	5	5475.18	7	14892.90	5	37.28	3
104	126	-28	Min.	0.00	-1458.16	1	-323.40	4	-39.93	4	21277.10	2	-14080.10	7	24.24	6
104	126	-28	Min.	171.73	-1458.16	1	-323.40	4	-595.32	4	3382.83	2	9808.68	4	24.24	6
104	-28	-31	Max	0.00	-41.11	8	-16.32	7	751.58	5	3665.81	7	14808.60	5	127.98	8
104	-28	-31	Max	24.83					743.02	5			15272.30	5		
104	-28	-31	Max	104.57	-41.11	8	-16.32	7	715.52	5	-8482.81	8	10763.50	5	127.98	8

104	-28	-31	Min.	0.00	-2420.94	1	-64.86	2	-501.65	4	2283.65	2	9884.16	4	95.18	1
104	-28	-31	Min.	20.91					-511.42	4			10121.90	4		
104	-28	-31	Min.	104.57	-2420.94	1	-64.86	2	-550.49	4	-12158.20	1	6240.04	4	95.18	1
104	-31	135	Max	0.00	-41.51	8	40.96	4	1857.11	1	-8955.10	8	10787.80	5	188.76	7
104	-31	135	Max	68.95	-41.51	8	40.96	4	1609.53	1	-16121.90	8	-289.49	6	188.76	7
104	-31	135	Min.	0.00	-1801.93	1	-971.57	5	339.64	8	-12562.90	1	6236.81	4	-17.45	2
104	-31	135	Min.	68.95	-1801.93	1	-971.57	5	-54.42	8	-21668.70	1	-3132.21	3	-17.45	2
107	112	101	Max	0.00	131.94	6	553.72	3	6060.52	1	23703.40	1	-6969.12	4	3.34	5
107	112	101	Max	178.39					4407.59	3			12848.10	3		
107	112	101	Max	310.25	131.94	6	553.72	3	5137.71	3	-13273.10	2	1742.11	2	3.34	5
107	112	101	Min.	0.00	-2076.38	3	-1189.61	6	40.40	8	18277.20	8	-8523.86	5	-19.89	4
107	112	101	Min.	176.46					-13.10	6			8997.00	6		
107	112	101	Min.	310.25	-2076.38	3	-2375.58	6	-2849.38	6	-17972.00	7	-579.56	7	-19.89	4
107	119	112	Max	0.00	146.29	6	552.57	3	6365.02	2	19342.00	3	-8945.04	8	8.10	5
107	119	112	Max	146.87					2685.52	3			3413.86	3		
107	119	112	Max	279.75	146.29	6	552.57	3	6060.52	1	-13821.10	4	-6969.15	4	8.10	5
107	119	112	Min.	0.00	-1721.84	3	-120.16	6	22.02	7	15220.60	6	-10886.80	1	-16.00	4
107	119	112	Min.	110.15					6594.62	2			1385.14	2		
107	119	112	Min.	279.75	-1721.84	3	-1189.53	6	40.40	8	-17639.50	5	-8523.86	5	-16.00	4
107	125	119	Max	0.00	148.21	6	1629.11	1	3152.82	2	21008.80	1	-9421.34	8	8.10	5
107	125	119	Max	159.34					1.13	7			5314.72	7		
107	125	119	Max	314.75	148.21	6	552.57	3	6365.02	2	-16187.50	2	-8945.06	8	8.10	5
107	125	119	Min.	0.00	-1362.41	3	6.47	8	-20.29	7	16509.40	8	-11594.60	1	-16.00	4
107	125	119	Min.	285.24					4529.54	5			-5357.36	5		
107	125	119	Min.	314.75	-1362.41	3	-120.16	6	22.02	7	-20578.30	7	-10886.80	1	-16.00	4
107	131	125	Max	0.00	133.42	6	2948.87	1	-20.42	8	20258.60	3	-392.97	6	8.10	5
107	131	125	Max	148.89					-46.68	7			14020.70	7		
107	131	125	Max	345.25	133.42	6	1629.11	1	3152.83	2	-19993.60	4	-9421.59	8	8.10	5
107	131	125	Min.	0.00	-1009.18	3	6.47	8	-4772.12	1	15287.90	6	-2689.39	3	-16.00	4
107	131	125	Min.	152.13					-692.77	2			9669.16	2		
107	131	125	Min.	345.25	-1009.18	3	6.47	8	-20.29	7	-25941.90	5	-11594.80	1	-16.00	4
108	115	-21	Max	0.00	258.49	5	40.34	2	105.31	2	2773.30	3	-960.80	2	89.56	7
108	115	-21	Max	137.19					118.40	3			466.47	3		
108	115	-21	Max	166.29	258.49	5	40.34	2	172.40	2	-245.40	4	390.40	3	89.56	7
108	115	-21	Min.	0.00	-1167.03	4	-3.53	7	-17.93	7	1807.78	6	-1442.86	7	58.86	2
108	115	-21	Min.	142.38					19.95	6			325.01	6		
108	115	-21	Min.	166.29	-1167.03	4	-3.53	7	-23.80	7	-520.13	5	293.60	6	58.86	2
108	121	115	Max	0.00	258.45	5	35.51	2	22.24	4	2348.41	1	-561.41	8	96.44	7
108	121	115	Max	124.88					-11.95	5			602.23	5		
108	121	115	Max	270.00	258.45	5	35.51	2	105.31	2	-1801.04	2	-960.51	2	96.44	7
108	121	115	Min.	0.00	-1167.16	4	-3.03	7	-22.55	5	1464.63	8	-877.31	1	63.44	2
108	121	115	Min.	123.19					51.79	4			345.18	4		
108	121	115	Min.	270.00	-1167.16	4	-3.03	7	-17.93	7	-2832.22	7	-1442.42	7	63.44	2
108	123	121	Max	0.00	258.45	5	35.50	2	-3.77	7	2066.33	7	-1065.65	2	96.45	7
108	123	121	Max	120.75					-17.68	2			-233.61	2		
108	123	121	Max	197.14	258.45	5	35.50	2	22.24	4	-865.17	8	-561.40	8	96.45	7
108	123	121	Min.	0.00	-1167.16	4	-3.03	7	-60.54	2	1366.03	2	-1512.54	7	63.45	2
108	123	121	Min.	117.05					-7.32	7			-293.83	7		
108	123	121	Min.	197.14	-1167.16	4	-3.03	7	-22.55	5	-1467.67	1	-877.31	1	63.45	2
108	-28	123	Max	0.00	258.45	5	35.53	2	4.90	7	1834.76	1	130.63	8	96.40	7

108	-28	123	Max	112.53					1.48	7			974.01	7		
108	-28	123	Max	285.79	258.45	5	35.53	2	-3.77	7	-1942.98	2	-1065.59	2	96.40	7
108	-28	123	Min.	0.00	-1167.16	4	-3.03	7	-162.10	2	1072.64	8	-104.66	1	63.41	2
108	-28	123	Min.	105.39					-124.65	2			665.82	2		
108	-28	123	Min.	285.79	-1167.16	4	-3.03	7	-60.54	2	-2905.49	7	-1512.45	7	63.41	2
111	106	108	Max	0.00	680.97	2	20.79	4	94.81	5	-432.90	8	1374.62	1	143.77	5
111	106	108	Max	155.00	680.97	2	20.79	4	-7.58	4	-758.40	8	-530.04	8	143.77	5
111	106	108	Min.	0.00	-1176.85	7	-151.15	5	-39.81	4	-1507.38	1	393.23	8	24.32	4
111	106	108	Min.	155.00	-1176.85	7	-151.15	5	-139.47	5	-1832.88	1	-1214.13	1	24.32	4
111	108	-22	Max	0.00	552.00	2	1164.47	3	-73.19	4	2439.85	5	-612.01	2	26.58	4
111	108	-22	Max	14.95	552.00	2	1164.47	3	95.22	4	2389.62	5	-363.64	2	26.58	4
111	108	-22	Min.	0.00	-376.16	7	-206.27	6	-139.60	5	1684.69	4	-1262.38	7	-42.44	5
111	108	-22	Min.	14.95	-376.16	7	-206.27	6	-164.78	5	1634.46	4	-901.71	7	-42.44	5
111	-22	118	Max	0.00	-117.89	4	63.05	7	95.21	4	1867.90	7	-363.65	2	26.68	4
111	-22	118	Max	152.79					18.79	3			911.90	3		
111	-22	118	Max	354.30	-117.89	4	63.05	7	84.80	7	-1982.28	8	-1334.86	8	26.68	4
111	-22	118	Min.	0.00	-447.16	5	-46.23	2	-164.78	5	1127.22	2	-901.74	7	-42.20	5
111	-22	118	Min.	159.44					-59.31	6			590.42	6		
111	-22	118	Min.	354.30	-447.16	5	-46.23	2	-94.78	2	-3160.46	1	-2271.07	1	-42.20	5
111	118	122	Max	0.00	-1448.82	2	29.71	4	25.35	7	1579.61	7	71.84	4	5.32	2
111	118	122	Max	43.39					-19.05	4			165.39	4		
111	118	122	Max	178.00	-1448.82	2	29.71	4	20.94	4	-747.62	8	-210.33	8	5.32	2
111	118	122	Min.	0.00	-2285.05	7	-43.62	5	-63.11	2	436.27	2	-702.28	5	-25.34	7
111	118	122	Min.	104.58					-50.43	6			62.95	6		
111	118	122	Min.	178.00	-2285.05	7	-43.62	5	-83.46	5	-1845.22	1	-933.60	1	-25.34	7
111	122	127	Max	0.00	134.16	5	93.03	5	37.63	4	3281.08	7	-1143.03	2	-8.96	6
111	122	127	Max	208.82					36.43	7			1098.41	7		
111	122	127	Max	397.75	134.16	5	93.03	5	237.44	5	-1909.62	8	-1072.80	8	-8.96	6
111	122	127	Min.	0.00	-154.44	4	-13.53	4	-132.59	5	1908.44	2	-2331.53	7	-38.29	3
111	122	127	Min.	187.69					27.91	2			642.61	2		
111	122	127	Min.	397.75	-154.44	4	-13.53	4	-16.18	4	-3199.26	1	-2241.39	1	-38.29	3
111	127	-33	Max	0.00	974.76	1	-162.26	4	514.58	5	3541.80	7	-627.07	2	264.12	5
111	127	-33	Max	136.25					-442.68	1			894.12	1		
111	127	-33	Max	200.00	974.76	1	-162.26	4	-364.27	8	-603.84	8	485.76	7	264.12	5
111	127	-33	Min.	0.00	28.11	8	-578.24	5	-104.80	4	1909.61	2	-1935.25	7	57.54	4
111	127	-33	Min.	157.50					-225.74	8			494.53	8		
111	127	-33	Min.	200.00	28.11	8	-578.24	5	-706.95	1	-1460.43	1	307.55	2	57.54	4
118	138	-29	Max	0.00	132.56	5	372.49	4	281.37	5	1910.14	1	-330.83	4	-230.92	6
118	138	-29	Max	173.75					181.41	1			1208.86	1		
118	138	-29	Max	200.00	132.56	5	372.49	4	379.15	4	-89.00	2	1169.06	1	-230.92	6
118	138	-29	Min.	0.00	-347.22	4	-326.92	5	-365.84	4	1152.61	8	-454.71	5	-349.53	3
118	138	-29	Min.	151.25					-138.90	8			532.45	8		
118	138	-29	Min.	200.00	-347.22	4	-326.92	5	-372.48	5	-577.75	7	442.45	8	-349.53	3
119	-31	136	Max	0.00	905.17	5	668.92	1	-286.10	8	503.29	6	80.91	3	23.43	2
119	-31	136	Max	118.69					-199.09	7			305.90	7		
119	-31	136	Max	395.63	905.17	5	668.92	1	900.81	1	-826.87	6	-776.29	6	23.43	2
119	-31	136	Min.	0.00	-210.23	4	119.28	8	-1745.61	1	375.50	3	-135.78	6	-31.33	7
119	-31	136	Min.	142.18					-749.88	2			217.80	2		
119	-31	136	Min.	395.63	-210.23	4	119.28	8	185.82	8	-955.34	3	-1066.84	3	-31.33	7
119	136	-33	Max	0.00	905.16	5	668.92	1	900.75	1	2069.51	1	-776.22	6	23.45	2

119	136	-33	Max	70.13	905.16	5	668.92	1	1369.88	1	1833.83	1	349.52	1	23.45	2
119	136	-33	Min.	0.00	-210.24	4	119.30	8	185.81	8	1288.95	8	-1066.75	3	-31.31	7
119	136	-33	Min.	70.13	-210.24	4	119.30	8	269.48	8	1053.29	8	-2.44	8	-31.31	7
119	-33	138	Max	0.00	326.92	5	132.57	5	690.74	3	477.73	6	155.16	3	454.72	5
119	-33	138	Max	102.61					344.29	3			332.29	3		
119	-33	138	Max	304.02	326.92	5	132.57	5	281.36	5	-544.14	6	-230.87	6	454.72	5
119	-33	138	Min.	0.00	-372.48	4	-347.23	4	-122.58	6	345.21	3	-129.73	6	330.83	4
119	-33	138	Min.	142.51					52.70	6			209.69	6		
119	-33	138	Min.	304.02	-372.48	4	-347.23	4	-365.81	4	-676.96	3	-349.47	3	330.83	4
120	127	-29	Max	0.00	2353.48	1	155.23	5	22.44	4	1573.92	5	-1049.71	4	171.13	5
120	127	-29	Max	300.22					-40.24	4			461.71	4		
120	127	-29	Max	304.02	2353.48	1	155.23	5	243.97	5	551.75	5	1107.63	5	171.13	5
120	127	-29	Min.	0.00	1351.58	8	-20.88	4	-227.95	5	1007.93	4	-2123.92	5	120.23	4
120	127	-29	Min.	300.22					-40.24	4			461.71	4		
120	127	-29	Min.	304.02	1351.58	8	-20.88	4	-41.03	4	-13.95	4	461.43	4	120.23	4
120	-29	128	Max	0.00	2675.62	5	287.88	5	338.13	4	146.29	1	796.48	5	-315.58	8
120	-29	128	Max	55.98	2675.62	5	287.88	5	144.84	1	28.73	1	752.76	5	-315.58	8
120	-29	128	Min.	0.00	983.87	4	-368.06	4	-128.51	5	-275.32	8	192.11	4	-1004.57	1
120	-29	128	Min.	55.98	983.87	4	-368.06	4	19.90	8	-392.88	8	97.80	4	-1004.57	1
205	206	207	Max	0.00	-684.21	8	435.75	5	4021.18	4	4166.60	1	-1448.54	8	-136.80	8
205	206	207	Max	207.00					1602.89	3			1832.44	3		
205	206	207	Max	360.00	-684.21	8	435.75	5	990.82	1	-2183.21	2	-332.42	1	-136.80	8
205	206	207	Min.	0.00	-2763.18	1	-1575.51	4	-1259.87	5	2902.65	8	-2982.37	1	-1052.17	1
205	206	207	Min.	209.25					-373.13	6			1087.90	6		
205	206	207	Min.	360.00	-2763.18	1	-199.37	4	144.42	8	-2983.03	7	-675.81	8	-1052.17	1
205	207	209	Max	0.00	-986.92	8	39.24	7	1171.65	1	3230.44	7	-332.59	1	-41.23	8
205	207	209	Max	166.81					-440.35	1			2317.05	1		
205	207	209	Max	340.00	-986.92	8	39.24	7	393.83	5	-2514.17	8	-504.38	3	-41.23	8
205	207	209	Min.	0.00	-3340.96	1	-1291.89	2	134.65	8	2510.16	2	-674.59	8	-466.75	1
205	207	209	Min.	172.13					190.63	8			1524.17	8		
205	207	209	Min.	340.00	-3340.96	1	7.80	2	-1137.09	4	-3300.87	1	-631.94	6	-466.75	1
205	209	211	Max	0.00	-1171.59	8	-20.44	8	374.52	5	3302.38	5	-498.14	3	-16.33	6
205	209	211	Max	172.81					-2027.58	3			2338.78	3		
205	209	211	Max	350.00	-1171.59	8	329.80	4	242.33	7	-2638.11	6	-649.00	2	-16.33	6
205	209	211	Min.	0.00	-3731.56	1	-1026.02	1	-948.64	4	2574.02	4	-626.94	6	-194.55	3
205	209	211	Min.	172.81					215.83	6			1615.63	6		
205	209	211	Min.	350.00	-3731.56	1	-38.35	5	-2137.73	2	-3381.06	3	-728.58	7	-194.55	3
205	211	214	Max	0.00	-1236.59	8	-47.79	8	266.01	7	3472.47	5	-645.23	2	47.63	2
205	211	214	Max	181.56					-2528.98	1			2500.28	1		
205	211	214	Max	350.00	-1236.59	8	742.33	4	22.68	8	-2508.75	6	-188.92	1	47.63	2
205	211	214	Min.	0.00	-3913.32	1	-631.85	1	-2087.90	2	2701.68	4	-723.79	7	-11.81	7
205	211	214	Min.	181.56					103.18	8			1737.96	8		
205	211	214	Min.	350.00	-3913.32	1	-84.05	5	-1881.95	1	-3212.66	3	-390.48	8	-11.81	7
205	214	216	Max	0.00	-1169.23	8	-55.66	8	50.08	7	3313.90	3	-185.72	1	376.80	1
205	214	216	Max	174.25					-1642.29	3			2652.78	3		
205	214	216	Max	340.00	-1169.23	8	1116.66	4	-145.12	8	-2529.68	4	23.21	3	376.80	1
205	214	216	Min.	0.00	-3860.46	1	-238.83	1	-1968.14	2	2490.90	6	-389.20	8	25.14	8
205	214	216	Min.	166.81					-202.15	6			1730.85	6		
205	214	216	Min.	340.00	-3860.46	1	-111.46	5	-564.73	1	-3221.15	5	-508.98	6	25.14	8
205	216	217	Max	0.00	-935.14	8	593.84	2	-126.44	8	3518.63	5	27.45	3	1068.03	3

205	216	217	Max	185.78					287.00	5			3079.20	5		
205	216	217	Max	410.00	-935.14	8	2161.12	2	4979.48	2	-3120.33	6	-881.23	6	1068.03	3
205	216	217	Min.	0.00	-3527.06	1	-57.14	7	-738.09	1	2645.83	4	-508.42	6	130.57	6
205	216	217	Min.	178.09					440.69	4			2047.79	4		
205	216	217	Min.	410.00	-3527.06	1	-57.14	7	-430.62	7	-4518.17	3	-2714.63	3	130.57	6
206	-38	-39	Max	0.00	413.48	4	0.00	1	0.00	1	3523.97	1	0.00	1	0.00	1
206	-38	-39	Max	180.00									3172.44	1		
206	-38	-39	Max	360.00	413.48	4	0.00	1	0.00	1	-2039.43	2	-0.03	2	0.00	1
206	-38	-39	Min.	0.00	-855.75	5	0.00	1	0.00	1	2039.41	2	0.00	1	0.00	1
206	-38	-39	Min.	180.00									1835.95	2		
206	-38	-39	Min.	360.00	-855.75	5	0.00	1	0.00	1	-3524.01	1	-0.06	1	0.00	1
206	-39	-40	Max	0.00	462.82	4	0.00	1	0.00	1	3328.17	1	0.00	1	0.00	1
206	-39	-40	Max	170.00									2829.79	1		
206	-39	-40	Max	340.00	462.82	4	0.00	1	0.00	1	-1926.08	2	0.05	1	0.00	1
206	-39	-40	Min.	0.00	-868.27	5	0.00	1	0.00	1	1926.10	2	0.00	1	0.00	1
206	-39	-40	Min.	170.00									1637.65	2		
206	-39	-40	Min.	340.00	-868.27	5	0.00	1	0.00	1	-3328.14	1	0.03	2	0.00	1
206	-40	-41	Max	0.00	510.42	4	0.00	1	0.00	1	3426.07	1	0.00	1	0.00	1
206	-40	-41	Max	175.00									2998.67	1		
206	-40	-41	Max	350.00	510.42	4	0.00	1	0.00	1	-1982.75	2	0.02	1	0.00	1
206	-40	-41	Min.	0.00	-876.04	5	0.00	1	0.00	1	1982.76	2	0.00	1	0.00	1
206	-40	-41	Min.	175.00									1735.39	2		
206	-40	-41	Min.	350.00	-876.04	5	0.00	1	0.00	1	-3426.06	1	0.01	2	0.00	1
206	-41	-42	Max	0.00	529.85	4	0.00	1	0.00	1	3426.07	1	0.00	1	0.00	1
206	-41	-42	Max	175.00									2998.67	1		
206	-41	-42	Max	350.00	529.85	4	0.00	1	0.00	1	-1982.75	2	0.01	1	0.00	1
206	-41	-42	Min.	0.00	-879.01	5	0.00	1	0.00	1	1982.76	2	0.00	1	0.00	1
206	-41	-42	Min.	175.00									1735.39	2		
206	-41	-42	Min.	350.00	-879.01	5	0.00	1	0.00	1	-3426.06	1	0.01	2	0.00	1
206	-42	-44	Max	0.00	514.64	4	0.00	1	0.00	1	3328.17	1	0.00	1	0.00	1
206	-42	-44	Max	170.00									2829.79	1		
206	-42	-44	Max	340.00	514.64	4	0.00	1	0.00	1	-1926.08	2	0.06	1	0.00	1
206	-42	-44	Min.	0.00	-880.36	5	0.00	1	0.00	1	1926.10	2	0.00	1	0.00	1
206	-42	-44	Min.	170.00									1637.65	2		
206	-42	-44	Min.	340.00	-880.36	5	0.00	1	0.00	1	-3328.14	1	0.03	2	0.00	1
206	-44	224	Max	0.00	480.71	4	0.00	1	0.00	1	3960.09	1	0.00	1	0.00	1
206	-44	224	Max	203.88									4035.83	1		
206	-44	224	Max	410.33	480.71	4	0.00	1	0.00	1	-2263.51	2	-0.06	2	0.00	1
206	-44	224	Min.	0.00	-885.67	5	0.00	1	0.00	1	2293.18	2	0.00	1	0.00	1
206	-44	224	Min.	203.88									2337.68	2		
206	-44	224	Min.	410.33	-885.67	5	0.00	1	0.00	1	-3906.57	1	-0.09	1	0.00	1
210	-39	207	Max	0.00	-26.83	8	35.36	4	14.84	5	-4161.57	2	26565.60	1	1.86	5
210	-39	207	Max	366.67	-26.83	8	35.36	4	102.36	4	-4553.70	2	0.06	1	1.86	5
210	-39	207	Min.	0.00	-1038.72	1	-12.03	5	-27.28	4	-7048.64	1	15978.00	2	-1.29	4
210	-39	207	Min.	366.67	-1038.72	1	-12.03	5	-29.25	5	-7441.63	1	0.04	2	-1.29	4
210	-45	-39	Max	0.00	-26.83	8	0.90	7	36.83	1	196.50	1	26565.60	1	1.84	5
210	-45	-39	Max	183.33					10.52	1			26745.70	1		
210	-45	-39	Max	366.67	-26.83	8	0.90	7	14.84	5	-196.06	2	26565.60	1	1.84	5
210	-45	-39	Min.	0.00	-1038.73	1	-14.40	2	0.24	8	196.07	2	15978.00	2	-1.30	4
210	-45	-39	Min.	183.33					9.86	2			16157.80	2		

210	-45	-39	Min.	366.67	-1038.73	1	-14.40	2	-27.28	4	-196.49	1	15978.00	2	-1.30	4
210	228	-45	Max	0.00	-26.83	8	42.79	1	-1.93	8	7441.65	1	0.00	2	2.58	5
210	228	-45	Max	366.67	-26.83	8	42.79	1	36.83	1	7048.66	1	26565.60	1	2.58	5
210	228	-45	Min.	0.00	-1038.72	1	0.59	8	-120.05	1	4553.71	2	0.00	1	-0.86	4
210	228	-45	Min.	366.67	-1038.72	1	0.59	8	0.24	8	4161.58	2	15978.00	2	-0.86	4
211	208	206	Max	0.00	1799.70	5	1613.20	3	1475.07	4	3197.31	1	-1252.86	4	-440.27	8
211	208	206	Max	155.00	1799.70	5	1613.20	3	3962.85	4	1677.63	1	1939.31	1	-440.27	8
211	208	206	Min.	0.00	-1294.81	4	-584.00	6	-321.27	5	2308.09	8	-2353.08	5	-1214.82	1
211	208	206	Min.	155.00	-1294.81	4	-584.00	6	-1213.76	5	788.71	8	633.02	8	-1214.82	1
211	-38	208	Max	0.00	1118.96	5	574.42	4	1210.39	5	-226.20	4	1919.49	3	-53.29	4
211	-38	208	Max	211.66	1118.96	5	574.42	4	1414.29	4	-2300.69	4	-1252.48	4	-53.29	4
211	-38	208	Min.	0.00	-787.98	4	-727.97	5	198.44	4	-893.60	5	1236.46	6	-343.70	5
211	-38	208	Min.	211.66	-787.98	4	-727.97	5	-330.46	5	-2968.23	5	-2352.70	5	-343.70	5
211	218	-38	Max	0.00	1118.97	5	236.79	1	1008.97	5	4917.46	3	-3433.70	8	-53.33	4
211	218	-38	Max	157.58	1118.97	5	236.79	1	1210.39	5	3372.48	3	1919.45	3	-53.33	4
211	218	-38	Min.	0.00	-787.99	4	51.95	8	-55.15	4	3752.60	6	-4638.71	1	-343.75	5
211	218	-38	Min.	157.58	-787.99	4	51.95	8	198.44	4	2207.92	6	1236.43	6	-343.75	5
211	222	218	Max	0.00	2882.07	5	91.79	3	926.49	5	350.57	8	-2121.05	4	93.39	1
211	222	218	Max	6.67					-160.11	4			-2118.54	4		
211	222	218	Max	178.00	2882.07	5	91.79	3	961.77	5	-1393.99	8	-3433.62	8	93.39	1
211	222	218	Min.	0.00	1443.07	4	10.63	6	-165.63	4	-217.18	1	-3083.23	5	-4.07	8
211	222	218	Min.	6.67					927.82	5			-3081.20	5		
211	222	218	Min.	178.00	1443.07	4	10.63	6	-18.58	4	-1961.89	1	-4638.56	1	-4.07	8
211	-43	222	Max	0.00	1226.70	2	78.77	4	1015.79	5	-4330.87	4	-727.36	4	606.09	5
211	-43	222	Max	31.08	1226.70	2	78.77	4	905.73	5	-4635.49	4	-2120.87	4	606.09	5
211	-43	222	Min.	0.00	-29.69	7	-354.09	5	-171.04	4	-6262.48	5	-1088.79	5	192.37	4
211	-43	222	Min.	31.08	-29.69	7	-354.09	5	-146.56	4	-6567.10	5	-3082.70	5	192.37	4
211	227	-43	Max	0.00	1226.67	2	1287.79	1	-58.32	8	1870.84	4	278.19	7	605.93	5
211	227	-43	Max	145.52					-0.35	7			1314.96	7		
211	227	-43	Max	366.67	1226.67	2	1287.79	1	1015.78	5	-1723.03	4	-727.35	4	605.93	5
211	227	-43	Min.	0.00	-29.72	7	36.63	8	-3953.18	1	1424.23	5	-998.87	2	192.27	4
211	227	-43	Min.	190.21					-1517.46	2			784.22	2		
211	227	-43	Min.	366.67	-29.72	7	36.63	8	-171.06	4	-2170.08	5	-1088.83	5	192.27	4
212	-40	209	Max	0.00	-13.92	6	33.92	3	12.44	6	-4104.91	2	26206.50	1	7.07	5
212	-40	209	Max	366.67	-13.92	6	33.92	3	96.38	3	-4497.03	2	0.02	1	7.07	5
212	-40	209	Min.	0.00	-776.14	3	-9.58	6	-27.98	3	-6950.72	1	15770.20	2	4.11	4
212	-40	209	Min.	366.67	-776.14	3	-9.58	6	-22.69	6	-7343.71	1	0.01	2	4.11	4
212	-46	-40	Max	0.00	-13.92	6	-0.12	8	39.33	1	196.49	1	26206.50	1	7.09	5
212	-46	-40	Max	183.33					11.16	1			26386.60	1		
212	-46	-40	Max	366.67	-13.92	6	-0.12	8	12.44	6	-196.06	2	26206.50	1	7.09	5
212	-46	-40	Min.	0.00	-776.14	3	-15.36	1	1.92	8	196.06	2	15770.20	2	4.12	4
212	-46	-40	Min.	183.33					10.54	2			15949.90	2		
212	-46	-40	Min.	366.67	-776.14	3	-15.36	1	-27.98	3	-196.50	1	15770.20	2	4.12	4
212	230	-46	Max	0.00	-13.92	6	43.14	1	-7.46	8	7343.70	1	0.00	1	7.09	5
212	230	-46	Max	366.67	-13.92	6	43.14	1	39.33	1	6950.71	1	26206.40	1	7.09	5
212	230	-46	Min.	0.00	-776.15	3	2.56	8	-118.86	1	4497.02	2	0.00	1	4.12	4
212	230	-46	Min.	366.67	-776.15	3	2.56	8	1.92	8	4104.90	2	15770.20	2	4.12	4
213	-41	211	Max	0.00	7.48	7	15.49	3	10.62	6	-4161.58	2	26565.50	1	4.98	1
213	-41	211	Max	366.67	7.48	7	15.49	3	43.34	3	-4553.70	2	0.01	1	4.98	1
213	-41	211	Min.	0.00	-679.82	2	-7.52	6	-13.45	3	-7048.64	1	15978.00	2	3.44	8

213	-41	211	Min.	366.67	-679.82	2	-7.52	6	-16.96	6	-7441.64	1	0.01	2	3.44	8
213	-47	-41	Max	0.00	7.48	7	-1.23	8	24.57	1	196.49	1	26565.50	1	4.98	1
213	-47	-41	Max	183.33					11.24	1			26745.70	1		
213	-47	-41	Max	366.67	7.48	7	-1.23	8	10.62	6	-196.07	2	26565.50	1	4.98	1
213	-47	-41	Min.	0.00	-679.82	2	-7.27	1	3.78	8	196.06	2	15978.00	2	3.44	8
213	-47	-41	Min.	183.33					10.72	2			16157.70	2		
213	-47	-41	Min.	366.67	-679.82	2	-7.27	1	-13.45	3	-196.51	1	15978.00	2	3.44	8
213	237	-47	Max	0.00	7.48	7	24.10	1	-13.62	8	7441.62	1	0.00	1	5.00	1
213	237	-47	Max	366.67	7.48	7	24.10	1	24.57	1	7048.63	1	26565.50	1	5.00	1
213	237	-47	Min.	0.00	-679.82	2	4.75	8	-63.80	1	4553.69	2	0.00	1	3.45	8
213	237	-47	Min.	366.67	-679.82	2	4.75	8	3.78	8	4161.57	2	15978.00	2	3.45	8
214	-42	214	Max	0.00	52.05	7	5.69	7	19.07	2	-4104.92	2	26206.60	1	3.00	1
214	-42	214	Max	366.67	52.05	7	5.69	7	17.46	7	-4497.04	2	0.06	1	3.00	1
214	-42	214	Min.	0.00	-656.43	2	-20.76	2	-3.40	7	-6950.73	1	15770.30	2	1.26	8
214	-42	214	Min.	366.67	-656.43	2	-20.76	2	-57.05	2	-7343.73	1	0.04	2	1.26	8
214	-48	-42	Max	0.00	52.05	7	5.11	4	21.90	5	196.50	1	26206.60	1	2.97	1
214	-48	-42	Max	183.33					11.61	1			26386.70	1		
214	-48	-42	Max	366.67	52.05	7	5.11	4	19.07	2	-196.06	2	26206.60	1	2.97	1
214	-48	-42	Min.	0.00	-656.43	2	-3.61	5	-11.71	4	196.06	2	15770.30	2	1.25	8
214	-48	-42	Min.	183.33					11.18	2			15950.00	2		
214	-48	-42	Min.	366.67	-656.43	2	-3.61	5	-3.40	7	-196.50	1	15770.30	2	1.25	8
214	239	-48	Max	0.00	52.05	7	20.26	5	39.23	4	7343.74	1	0.00	2	3.00	1
214	239	-48	Max	366.67	52.05	7	20.26	5	21.90	5	6950.74	1	26206.60	1	3.00	1
214	239	-48	Min.	0.00	-656.43	2	-13.89	4	-52.38	5	4497.04	2	0.00	1	1.26	8
214	239	-48	Min.	366.67	-656.43	2	-13.89	4	-11.71	4	4104.92	2	15770.30	2	1.26	8
215	-44	216	Max	0.00	608.75	5	4.82	7	30.33	2	-4430.65	2	28265.30	1	3.61	1
215	-44	216	Max	366.67	608.75	5	4.82	7	15.10	7	-4822.77	2	-0.10	2	3.61	1
215	-44	216	Min.	0.00	-580.05	4	-36.07	2	-2.57	7	-7512.25	1	16964.50	2	0.30	8
215	-44	216	Min.	366.67	-580.05	4	-36.07	2	-101.93	2	-7905.25	1	-0.16	1	0.30	8
215	-49	-44	Max	0.00	573.32	5	10.71	4	21.93	5	180.73	2	28366.20	1	2.88	2
215	-49	-44	Max	158.13					10.27	1			28499.40	1		
215	-49	-44	Max	366.67	573.32	5	10.71	4	30.33	2	-211.39	2	28265.30	1	2.88	2
215	-49	-44	Min.	0.00	-560.82	4	-3.05	5	-22.27	4	168.97	1	17020.70	2	-0.20	7
215	-49	-44	Min.	169.58					10.87	2			17173.40	2		
215	-49	-44	Min.	366.67	-560.82	4	-3.05	5	-2.57	7	-224.03	1	16964.50	2	-0.20	7
215	240	-49	Max	0.00	495.80	5	20.36	5	79.38	4	7932.71	1	0.00	1	2.90	2
215	240	-49	Max	366.67	495.80	5	20.36	5	21.93	5	7539.71	1	28366.10	1	2.90	2
215	240	-49	Min.	0.00	-615.58	4	-27.72	4	-52.72	5	4838.07	2	0.00	1	-0.16	7
215	240	-49	Min.	366.67	-615.58	4	-27.72	4	-22.27	4	4445.94	2	17020.70	2	-0.16	7
216	-43	-45	Max	0.00	-149.68	8	0.00	1	0.00	1	3523.97	1	0.00	1	0.00	1
216	-43	-45	Max	180.00									3172.44	1		
216	-43	-45	Max	360.00	-149.68	8	0.00	1	0.00	1	-2039.43	2	-0.04	2	0.00	1
216	-43	-45	Min.	0.00	-1450.24	1	0.00	1	0.00	1	2039.41	2	0.00	1	0.00	1
216	-43	-45	Min.	180.00									1835.95	2		
216	-43	-45	Min.	360.00	-1450.24	1	0.00	1	0.00	1	-3524.01	1	-0.07	1	0.00	1
216	-45	-46	Max	0.00	-149.42	8	0.00	1	0.00	1	3328.17	1	0.00	1	0.00	1
216	-45	-46	Max	170.00									2829.79	1		
216	-45	-46	Max	340.00	-149.42	8	0.00	1	0.00	1	-1926.08	2	0.05	1	0.00	1
216	-45	-46	Min.	0.00	-1507.35	1	0.00	1	0.00	1	1926.10	2	0.00	1	0.00	1
216	-45	-46	Min.	170.00									1637.66	2		

216	-45	-46	Min.	340.00	-1507.35	1	0.00	1	0.00	1	-3328.14	1	0.03	2	0.00	1
216	-46	-47	Max	0.00	-152.10	8	0.00	1	0.00	1	3426.07	1	0.00	1	0.00	1
216	-46	-47	Max	175.00									2998.67	1		
216	-46	-47	Max	350.00	-152.10	8	0.00	1	0.00	1	-1982.75	2	0.03	1	0.00	1
216	-46	-47	Min.	0.00	-1565.85	1	0.00	1	0.00	1	1982.76	2	0.00	1	0.00	1
216	-46	-47	Min.	175.00									1735.39	2		
216	-46	-47	Min.	350.00	-1565.85	1	0.00	1	0.00	1	-3426.06	1	0.02	2	0.00	1
216	-47	-48	Max	0.00	-158.08	8	0.00	1	0.00	1	3426.07	1	0.00	1	0.00	1
216	-47	-48	Max	175.00									2998.67	1		
216	-47	-48	Max	350.00	-158.08	8	0.00	1	0.00	1	-1982.75	2	0.00	2	0.00	1
216	-47	-48	Min.	0.00	-1597.22	1	0.00	1	0.00	1	1982.76	2	0.00	1	0.00	1
216	-47	-48	Min.	175.00									1735.39	2		
216	-47	-48	Min.	350.00	-1597.22	1	0.00	1	0.00	1	-3426.07	1	0.00	1	0.00	1
216	-48	-49	Max	0.00	-165.60	8	0.00	1	0.00	1	3328.17	1	0.00	1	0.00	1
216	-48	-49	Max	170.00									2829.79	1		
216	-48	-49	Max	340.00	-165.60	8	0.00	1	0.00	1	-1926.09	2	0.03	1	0.00	1
216	-48	-49	Min.	0.00	-1594.56	1	0.00	1	0.00	1	1926.10	2	0.00	1	0.00	1
216	-48	-49	Min.	170.00									1637.65	2		
216	-48	-49	Min.	340.00	-1594.56	1	0.00	1	0.00	1	-3328.15	1	0.02	2	0.00	1
216	-49	229	Max	0.00	-172.52	8	0.00	1	0.00	1	4042.59	1	0.00	2	0.00	1
216	-49	229	Max	205.59									4171.06	1		
216	-49	229	Max	411.18	-172.52	8	0.00	1	0.00	1	-2354.78	2	-0.09	2	0.00	1
216	-49	229	Min.	0.00	-1577.63	1	0.00	1	0.00	1	2339.12	2	0.00	1	0.00	1
216	-49	229	Min.	205.59									2413.08	2		
216	-49	229	Min.	411.18	-1577.63	1	0.00	1	0.00	1	-4070.82	1	-0.16	1	0.00	1
217	217	224	Max	0.00	277.27	7	65.14	7	4959.74	2	868.40	6	2679.86	3	726.58	3
217	217	224	Max	18.61					3184.95	4			2475.30	4		
217	217	224	Max	350.25	277.27	7	72.43	5	275.59	4	-2564.54	6	-2585.95	6	726.58	3
217	217	224	Min.	0.00	-1431.48	2	-2208.84	2	-429.15	7	-79.09	3	384.12	6	219.47	6
217	217	224	Min.	88.66					335.17	6			768.87	6		
217	217	224	Min.	350.25	-1431.48	2	-877.26	4	-908.62	5	-3512.43	3	-3609.26	3	219.47	6
217	224	229	Max	0.00	404.06	7	78.67	7	288.62	4	1782.96	2	-2586.04	6	22.28	7
217	224	229	Max	181.50					-1292.82	2			-1253.39	2		
217	224	229	Max	352.00	404.06	7	730.43	5	68.32	7	-1667.14	2	-2671.08	2	22.28	7
217	224	229	Min.	0.00	-615.10	2	-838.63	2	-897.55	5	1587.00	7	-3609.62	3	3.00	2
217	224	229	Min.	161.70					-81.39	7			-2035.58	7		
217	224	229	Min.	352.00	-615.10	2	-144.82	4	-984.12	2	-1863.51	7	-3806.59	7	3.00	2
217	229	241	Max	0.00	565.66	3	117.91	7	58.63	7	3119.80	7	-2671.24	2	-209.80	6
217	229	241	Max	318.20					433.82	7			1158.17	7		
217	229	241	Max	397.75	565.66	3	1430.76	5	1947.89	5	-779.30	7	848.50	7	-209.80	6
217	229	241	Min.	0.00	-232.65	6	-855.09	2	-984.94	2	2241.62	2	-3806.95	7	-617.98	3
217	229	241	Min.	257.30					-1760.88	3			-224.05	3		
217	229	241	Min.	397.75	-232.65	6	-647.49	4	-2782.54	4	-1656.97	2	-1508.09	2	-617.98	3
220	228	227	Max	0.00	-1198.73	4	47.84	7	-7.45	6	3384.44	3	-1485.60	6	71.86	5
220	228	227	Max	177.75					-1954.71	3			1157.96	3		
220	228	227	Max	360.00	-1198.73	4	47.84	7	-38.32	8	-2589.71	4	-1298.28	4	71.86	5
220	228	227	Min.	0.00	-3187.07	5	-912.16	2	-919.13	3	2469.92	6	-1847.13	3	-882.77	4
220	228	227	Min.	165.38					-473.33	6			556.98	6		
220	228	227	Min.	360.00	-3187.07	5	-912.16	2	-3999.80	1	-3791.41	5	-2985.34	5	-882.77	4
220	230	228	Max	0.00	-679.04	4	37.77	5	1628.25	2	2895.81	5	-485.75	7	-9.04	7

220	230	228	Max	151.94					-233.89	5			1684.50	5		
220	230	228	Max	340.00	-679.04	4	37.77	5	-53.81	6	-2807.52	6	-1487.49	6	-9.04	7
220	230	228	Min.	0.00	-1969.59	5	-790.54	4	-354.47	7	2218.63	4	-590.96	2	-431.72	2
220	230	228	Min.	148.75					389.12	4			1086.92	4		
220	230	228	Min.	340.00	-1969.59	5	-790.54	4	-1231.84	3	-3633.70	3	-1847.31	3	-431.72	2
220	237	230	Max	0.00	-826.84	4	-21.46	6	2574.38	2	3298.82	3	-340.40	5	45.61	7
220	237	230	Max	172.81					-303.57	7			2499.90	7		
220	237	230	Max	350.00	-826.84	4	-21.46	6	1418.93	2	-2637.08	4	-492.65	7	45.61	7
220	237	230	Min.	0.00	-2488.23	5	-345.56	3	-239.81	7	2573.38	6	-480.09	4	-129.10	2
220	237	230	Min.	172.81					2003.88	2			1751.83	2		
220	237	230	Min.	350.00	-2488.23	5	-345.56	3	-368.94	7	-3386.26	5	-595.00	2	-129.10	2
220	239	237	Max	0.00	-852.58	4	90.21	2	2182.49	3	3246.57	3	40.40	5	93.83	1
220	239	237	Max	169.53					-146.99	5			2769.04	5		
220	239	237	Max	350.00	-852.58	4	90.21	2	2482.03	2	-2676.48	4	-345.29	5	93.83	1
220	239	237	Min.	0.00	-2786.29	5	-70.45	7	-41.63	6	2528.08	6	-260.65	4	22.99	8
220	239	237	Min.	170.63					2322.25	4			1915.92	4		
220	239	237	Min.	350.00	-2786.29	5	-70.45	7	-272.03	7	-3444.43	5	-483.56	4	22.99	8
220	240	239	Max	0.00	-743.34	4	513.24	2	667.90	3	3287.48	1	-42.21	7	317.38	2
220	240	239	Max	172.13					11.80	5			2731.82	5		
220	240	239	Max	340.00	-743.34	4	513.24	2	2250.67	4	-2442.45	2	38.59	5	317.38	2
220	240	239	Min.	0.00	-2833.45	5	-91.55	7	43.57	6	2597.20	8	-542.85	2	-46.58	7
220	240	239	Min.	174.25					1435.95	4			1777.25	4		
220	240	239	Min.	340.00	-2833.45	5	-91.55	7	-105.46	5	-3228.55	7	-262.97	4	-46.58	7
220	241	240	Max	0.00	-473.25	4	864.39	4	1930.78	5	4586.06	7	-955.22	6	694.51	2
220	241	240	Max	225.50					904.80	5			3205.52	5		
220	241	240	Max	410.00	-473.25	4	864.39	4	809.41	3	-2799.07	8	-42.16	7	694.51	2
220	241	240	Min.	0.00	-2594.64	5	-454.98	5	-2812.45	4	3247.43	2	-2496.76	3	-269.43	7
220	241	240	Min.	224.22					-874.33	4			2111.69	4		
220	241	240	Min.	410.00	-2594.64	5	-454.98	5	-12.51	6	-3552.32	1	-545.52	2	-269.43	7
501	1	-1	Max	0.00	0.00	1	0.00	1	0.00	1	-1074.92	4	-355.79	7	142.26	7
501	1	-1	Max	10.25	0.00	1	0.00	1	0.00	1	-922.06	4	-653.79	7	142.26	7
501	1	-1	Min.	0.00	0.00	1	0.00	1	0.00	1	-3051.53	5	-3674.63	2	44.31	2
501	1	-1	Min.	10.25	0.00	1	0.00	1	0.00	1	-2813.39	5	-3779.54	2	44.31	2
501	-1	2	Max	0.00	0.00	1	0.00	1	0.00	1	-922.05	4	-653.78	7	142.26	7
501	-1	2	Max	100.04									-1594.41	8		
501	-1	2	Max	372.25	0.00	1	0.00	1	0.00	1	4451.77	2	4441.78	4	142.26	7
501	-1	2	Min.	0.00	0.00	1	0.00	1	0.00	1	-2813.31	5	-3779.54	2	44.31	2
501	-1	2	Min.	116.33									-4879.33	1		
501	-1	2	Min.	372.25	0.00	1	0.00	1	0.00	1	4178.25	7	514.48	5	44.31	2
501	2	3	Max	0.00	0.00	1	0.00	1	0.00	1	-1038.62	2	4156.77	4	142.26	7
501	2	3	Max	112.50									3220.55	4		
501	2	3	Max	360.00	0.00	1	0.00	1	0.00	1	4316.52	1	7795.03	2	142.26	7
501	2	3	Min.	0.00	0.00	1	0.00	1	0.00	1	-2366.51	7	-22.34	5	44.31	2
501	2	3	Min.	101.25									-894.82	5		
501	2	3	Min.	360.00	0.00	1	0.00	1	0.00	1	3463.02	8	4534.27	7	44.31	2
501	3	4	Max	0.00	0.00	1	0.00	1	0.00	1	-350.52	1	7576.98	4	142.26	7
501	3	4	Max	83.94									7100.35	4		
501	3	4	Max	340.00	0.00	1	0.00	1	0.00	1	3959.28	1	12630.90	2	142.26	7
501	3	4	Min.	0.00	0.00	1	0.00	1	0.00	1	-1325.44	8	4028.88	5	44.31	2
501	3	4	Min.	35.06									3936.96	5		

501	3	4	Min.	340.00	0.00	1	0.00	1	0.00	1	2871.01	8	8701.18	7	44.31	2
501	4	-2	Max	0.00	0.00	1	0.00	1	0.00	1	-2518.21	5	12148.00	2	142.26	7
501	4	-2	Max	407.56	0.00	1	0.00	1	0.00	1	-634.60	5	5389.61	1	142.26	7
501	4	-2	Min.	0.00	0.00	1	0.00	1	0.00	1	-2913.86	4	8729.04	7	44.31	2
501	4	-2	Min.	407.56	0.00	1	0.00	1	0.00	1	-2177.15	4	2559.04	8	44.31	2
501	-2	5	Max	0.00	0.00	1	0.00	1	0.00	1	-635.15	5	5389.61	1	142.26	7
501	-2	5	Max	10.00	0.00	1	0.00	1	0.00	1	-661.41	5	5262.40	1	142.26	7
501	-2	5	Min.	0.00	0.00	1	0.00	1	0.00	1	-2177.67	4	2559.04	8	44.31	2
501	-2	5	Min.	10.00	0.00	1	0.00	1	0.00	1	-2242.16	4	2400.49	8	44.31	2
502	42	-4	Max	0.00	0.00	1	0.00	1	0.00	1	-17654.60	2	3597.80	7	6160.42	1
502	42	-4	Max	10.00	0.00	1	0.00	1	0.00	1	-16790.30	2	1498.73	7	6160.42	1
502	42	-4	Min.	0.00	0.00	1	0.00	1	0.00	1	-21537.90	7	1949.15	2	4430.75	8
502	42	-4	Min.	10.00	0.00	1	0.00	1	0.00	1	-20444.90	7	226.97	2	4430.75	8
502	-4	43	Max	0.00	0.00	1	0.00	1	0.00	1	-16792.70	2	1498.51	7	6160.42	1
502	-4	43	Max	189.51	0.00	1	0.00	1	0.00	1	-8435.22	2	-23301.60	2	6160.42	1
502	-4	43	Min.	0.00	0.00	1	0.00	1	0.00	1	-20447.10	7	226.73	2	4430.75	8
502	-4	43	Min.	189.51	0.00	1	0.00	1	0.00	1	-10089.40	7	-27030.60	7	4430.75	8
502	43	10	Max	0.00	0.00	1	0.00	1	0.00	1	10331.50	1	-22584.30	2	399.45	5
502	43	10	Max	100.69	0.00	1	0.00	1	0.00	1	9239.93	5	-14312.20	2	399.45	5
502	43	10	Min.	0.00	0.00	1	0.00	1	0.00	1	8141.59	8	-26391.40	7	-340.41	4
502	43	10	Min.	100.69	0.00	1	0.00	1	0.00	1	7639.31	4	-16780.60	7	-340.41	4
502	10	-5	Max	0.00	0.00	1	0.00	1	0.00	1	5118.88	5	-14366.90	4	399.45	5
502	10	-5	Max	389.68	0.00	1	0.00	1	0.00	1	-2752.26	6	-10379.70	6	399.45	5
502	10	-5	Min.	0.00	0.00	1	0.00	1	0.00	1	4038.20	4	-16684.30	5	-340.41	4
502	10	-5	Min.	389.68	0.00	1	0.00	1	0.00	1	-5687.26	3	-16476.80	3	-340.41	4
502	-5	44	Max	0.00	0.00	1	0.00	1	0.00	1	-2751.57	6	-10379.70	6	399.45	5
502	-5	44	Max	10.00	0.00	1	0.00	1	0.00	1	-2984.27	6	-10666.50	6	399.45	5
502	-5	44	Min.	0.00	0.00	1	0.00	1	0.00	1	-5686.35	3	-16476.80	3	-340.41	4
502	-5	44	Min.	10.00	0.00	1	0.00	1	0.00	1	-6009.31	3	-17061.60	3	-340.41	4
503	-13	31	Max	0.00	0.00	1	0.00	1	0.00	1	3369.22	1	-412.41	7	-117.47	2
503	-13	31	Max	10.16	0.00	1	0.00	1	0.00	1	3602.18	1	-121.08	7	-117.47	2
503	-13	31	Min.	0.00	0.00	1	0.00	1	0.00	1	1455.37	8	-3438.90	2	-259.81	7
503	-13	31	Min.	10.16	0.00	1	0.00	1	0.00	1	1600.87	8	-3220.66	2	-259.81	7
503	32	-13	Max	0.00	0.00	1	0.00	1	0.00	1	-4284.85	7	4581.76	8	-117.47	2
503	32	-13	Max	276.80									-1383.94	8		
503	32	-13	Max	372.16	0.00	1	0.00	1	0.00	1	3369.81	1	-412.41	7	-117.47	2
503	32	-13	Min.	0.00	0.00	1	0.00	1	0.00	1	-4470.40	2	-646.77	1	-259.81	7
503	32	-13	Min.	222.13									-5643.21	1		
503	32	-13	Min.	372.16	0.00	1	0.00	1	0.00	1	1455.89	8	-3438.90	2	-259.81	7
503	33	32	Max	0.00	0.00	1	0.00	1	0.00	1	-3505.80	8	7398.17	8	-117.47	2
503	33	32	Max	224.19									3418.93	8		
503	33	32	Max	340.00	0.00	1	0.00	1	0.00	1	2275.62	7	4489.64	8	-117.47	2
503	33	32	Min.	0.00	0.00	1	0.00	1	0.00	1	-4353.76	1	3720.46	1	-259.81	7
503	33	32	Min.	255.00									-1940.13	1		
503	33	32	Min.	340.00	0.00	1	0.00	1	0.00	1	1128.33	2	-1290.16	1	-259.81	7
503	34	33	Max	0.00	0.00	1	0.00	1	0.00	1	-3162.54	8	12750.90	2	-117.47	2
503	34	33	Max	271.13									6821.62	8		
503	34	33	Max	360.00	0.00	1	0.00	1	0.00	1	1291.65	8	7390.29	8	-117.47	2
503	34	33	Min.	0.00	0.00	1	0.00	1	0.00	1	-4785.79	1	10314.90	7	-259.81	7
503	34	33	Min.	340.88									3041.84	1		

503	34	33	Min.	360.00	0.00	1	0.00	1	0.00	1	304.26	1	3070.64	1	-259.81	7
503	-14	34	Max	0.00	0.00	1	0.00	1	0.00	1	1872.44	8	10050.50	1	-117.47	2
503	-14	34	Max	201.23									9473.39	1		
503	-14	34	Max	407.56	0.00	1	0.00	1	0.00	1	2385.90	8	12411.50	6	-117.47	2
503	-14	34	Min.	0.00	0.00	1	0.00	1	0.00	1	-294.74	1	5181.16	8	-259.81	7
503	-14	34	Min.	180.85									8472.68	3		
503	-14	34	Min.	407.56	0.00	1	0.00	1	0.00	1	1785.51	1	10279.80	3	-259.81	7
503	35	-14	Max	0.00	0.00	1	0.00	1	0.00	1	1951.59	8	10078.50	1	-117.47	2
503	35	-14	Max	10.00	0.00	1	0.00	1	0.00	1	1872.65	8	10050.50	1	-117.47	2
503	35	-14	Min.	0.00	0.00	1	0.00	1	0.00	1	-262.94	1	4990.01	8	-259.81	7
503	35	-14	Min.	10.00	0.00	1	0.00	1	0.00	1	-294.67	1	5181.18	8	-259.81	7
504	5	42	Max	0.00	0.00	1	0.00	1	0.00	1	-19273.30	2	2744.35	4	-2524.48	2
504	5	42	Max	179.00	0.00	1	0.00	1	0.00	1	-2225.50	5	-17385.10	2	-2524.48	2
504	5	42	Min.	0.00	0.00	1	0.00	1	0.00	1	-22890.80	7	-118.38	5	-4385.70	7
504	5	42	Min.	179.00	0.00	1	0.00	1	0.00	1	-3534.41	4	-22706.60	7	-4385.70	7
504	42	13	Max	0.00	0.00	1	0.00	1	0.00	1	18972.60	7	-22174.80	2	-559.11	4
504	42	13	Max	131.25	0.00	1	0.00	1	0.00	1	33455.70	7	8054.96	1	-559.11	4
504	42	13	Min.	0.00	0.00	1	0.00	1	0.00	1	14464.50	2	-28508.10	7	-804.12	5
504	42	13	Min.	131.25	0.00	1	0.00	1	0.00	1	25906.40	2	2165.51	8	-804.12	5
504	13	20	Max	0.00	0.00	1	0.00	1	0.00	1	-8046.62	6	9847.38	1	-559.11	4
504	13	20	Max	108.40									3621.46	1		
504	13	20	Max	279.75	0.00	1	0.00	1	0.00	1	19427.90	7	19216.60	5	-559.11	4
504	13	20	Min.	0.00	0.00	1	0.00	1	0.00	1	-11448.00	3	2159.33	8	-804.12	5
504	13	20	Min.	96.16									-1697.05	8		
504	13	20	Min.	279.75	0.00	1	0.00	1	0.00	1	13955.00	2	12261.40	4	-804.12	5
504	20	26	Max	0.00	0.00	1	0.00	1	0.00	1	-16449.90	8	20975.50	1	-559.11	4
504	20	26	Max	214.42									-3198.04	5		
504	20	26	Max	314.75	0.00	1	0.00	1	0.00	1	9508.82	7	1506.15	5	-559.11	4
504	20	26	Min.	0.00	0.00	1	0.00	1	0.00	1	-22275.60	1	12433.80	8	-804.12	5
504	20	26	Min.	232.13									-6419.41	4		
504	20	26	Min.	314.75	0.00	1	0.00	1	0.00	1	6081.00	2	-3899.49	4	-804.12	5
504	26	45	Max	0.00	0.00	1	0.00	1	0.00	1	-33377.80	8	1536.20	5	-559.11	4
504	26	45	Max	171.73	0.00	1	0.00	1	0.00	1	-18992.60	8	-46355.30	6	-559.11	4
504	26	45	Min.	0.00	0.00	1	0.00	1	0.00	1	-42980.00	1	-1978.81	4	-804.12	5
504	26	45	Min.	171.73	0.00	1	0.00	1	0.00	1	-25451.20	1	-57832.10	3	-804.12	5
504	45	47	Max	0.00	0.00	1	0.00	1	0.00	1	5346.07	8	-20420.80	6	6131.39	5
504	45	47	Max	104.57	0.00	1	0.00	1	0.00	1	14165.40	7	-11114.90	6	6131.39	5
504	45	47	Min.	0.00	0.00	1	0.00	1	0.00	1	4375.51	1	-24673.60	3	4653.34	4
504	45	47	Min.	104.57	0.00	1	0.00	1	0.00	1	12056.90	2	-15246.00	3	4653.34	4
504	47	35	Max	0.00	0.00	1	0.00	1	0.00	1	17859.50	7	-12806.60	6	9289.71	7
504	47	35	Max	68.95	0.00	1	0.00	1	0.00	1	25573.80	7	301.29	8	9289.71	7
504	47	35	Min.	0.00	0.00	1	0.00	1	0.00	1	15724.20	2	-17269.70	3	5852.19	2
504	47	35	Min.	68.95	0.00	1	0.00	1	0.00	1	21954.00	2	-2435.55	1	5852.19	2
505	6	7	Max	0.00	0.00	1	0.00	1	0.00	1	12908.20	1	-13310.20	4	-483.79	8
505	6	7	Max	360.00	0.00	1	0.00	1	0.00	1	12819.50	5	22614.20	3	-483.79	8
505	6	7	Min.	0.00	0.00	1	0.00	1	0.00	1	7729.60	8	-20107.00	5	-2895.66	1
505	6	7	Min.	360.00	0.00	1	0.00	1	0.00	1	9097.55	4	13920.80	6	-2895.66	1
505	7	9	Max	0.00	0.00	1	0.00	1	0.00	1	-2050.20	2	20801.00	3	-264.95	8
505	7	9	Max	133.88									18472.30	3		
505	7	9	Max	340.00	0.00	1	0.00	1	0.00	1	8221.32	5	25961.00	1	-264.95	8

505	7	9	Min.	0.00	0.00	1	0.00	1	0.00	1	-3226.71	7	11529.20	6	-1718.32	1
505	7	9	Min.	109.44									10341.30	6		
505	7	9	Min.	340.00	0.00	1	0.00	1	0.00	1	5542.94	4	16879.90	8	-1718.32	1
505	9	11	Max	0.00	0.00	1	0.00	1	0.00	1	-5596.60	6	24948.00	3	-110.48	8
505	9	11	Max	181.56									17086.90	3		
505	9	11	Max	350.00	0.00	1	0.00	1	0.00	1	9161.02	5	24787.10	1	-110.48	8
505	9	11	Min.	0.00	0.00	1	0.00	1	0.00	1	-8463.26	3	15190.50	6	-681.58	1
505	9	11	Min.	166.25									10438.70	6		
505	9	11	Min.	350.00	0.00	1	0.00	1	0.00	1	6252.40	4	16112.00	8	-681.58	1
505	11	14	Max	0.00	0.00	1	0.00	1	0.00	1	-5285.60	6	24378.40	3	409.15	3
505	11	14	Max	142.19									18651.70	1		
505	11	14	Max	350.00	0.00	1	0.00	1	0.00	1	10354.90	5	29494.30	1	409.15	3
505	11	14	Min.	0.00	0.00	1	0.00	1	0.00	1	-7781.53	3	15349.20	6	17.69	6
505	11	14	Min.	149.84									11587.60	8		
505	11	14	Min.	350.00	0.00	1	0.00	1	0.00	1	7020.03	4	18845.70	8	17.69	6
505	14	16	Max	0.00	0.00	1	0.00	1	0.00	1	-4093.19	6	29733.30	3	1574.18	3
505	14	16	Max	136.00									25881.30	1		
505	14	16	Max	340.00	0.00	1	0.00	1	0.00	1	6489.34	5	32726.70	1	1574.18	3
505	14	16	Min.	0.00	0.00	1	0.00	1	0.00	1	-6190.69	3	19122.30	6	194.81	6
505	14	16	Min.	145.56									15971.90	8		
505	14	16	Min.	340.00	0.00	1	0.00	1	0.00	1	4133.02	4	20688.40	8	194.81	6
505	16	17	Max	0.00	0.00	1	0.00	1	0.00	1	-7449.98	6	34193.30	1	2977.87	3
505	16	17	Max	410.00	0.00	1	0.00	1	0.00	1	-7085.11	6	-2157.25	6	2977.87	3
505	16	17	Min.	0.00	0.00	1	0.00	1	0.00	1	-10862.60	3	21851.50	8	433.52	6
505	16	17	Min.	410.00	0.00	1	0.00	1	0.00	1	-13127.80	3	-8023.02	3	433.52	6
507	12	1	Max	0.00	0.00	1	0.00	1	0.00	1	-17972.60	2	9005.53	3	39.99	5
507	12	1	Max	164.82									-9924.32	4		
507	12	1	Max	310.25	0.00	1	0.00	1	0.00	1	19102.00	1	2019.15	2	39.99	5
507	12	1	Min.	0.00	0.00	1	0.00	1	0.00	1	-23842.70	7	3405.26	6	-110.10	4
507	12	1	Min.	174.52									-13128.50	5		
507	12	1	Min.	310.25	0.00	1	0.00	1	0.00	1	16049.00	8	-344.14	7	-110.10	4
507	19	12	Max	0.00	0.00	1	0.00	1	0.00	1	-14649.20	2	10708.70	7	35.81	5
507	19	12	Max	138.13									-3080.39	3		
507	19	12	Max	279.75	0.00	1	0.00	1	0.00	1	19339.20	1	10481.70	3	35.81	5
507	19	12	Min.	0.00	0.00	1	0.00	1	0.00	1	-19926.80	7	3858.73	2	-112.85	4
507	19	12	Min.	143.37									-6708.01	6		
507	19	12	Min.	279.75	0.00	1	0.00	1	0.00	1	14834.80	8	3462.19	6	-112.85	4
507	25	19	Max	0.00	0.00	1	0.00	1	0.00	1	-16418.90	4	11038.70	7	35.81	5
507	25	19	Max	157.38									-5904.18	7		
507	25	19	Max	314.75	0.00	1	0.00	1	0.00	1	22382.60	1	11422.30	3	35.81	5
507	25	19	Min.	0.00	0.00	1	0.00	1	0.00	1	-21551.40	5	2856.86	2	-112.85	4
507	25	19	Min.	149.51									-9525.01	2		
507	25	19	Min.	314.75	0.00	1	0.00	1	0.00	1	16917.70	8	4648.25	6	-112.85	4
507	31	25	Max	0.00	0.00	1	0.00	1	0.00	1	-17461.40	8	-178.49	6	35.81	5
507	31	25	Max	155.36									-13738.50	8		
507	31	25	Max	345.25	0.00	1	0.00	1	0.00	1	27193.70	3	11031.20	7	35.81	5
507	31	25	Min.	0.00	0.00	1	0.00	1	0.00	1	-20669.40	1	-2494.68	3	-112.85	4
507	31	25	Min.	147.81									-17656.50	1		
507	31	25	Min.	345.25	0.00	1	0.00	1	0.00	1	20837.50	6	4272.37	2	-112.85	4
509	-6	43	Max	0.00	0.00	1	0.00	1	0.00	1	19311.50	7	4042.31	1	-376.04	4

509	-6	43	Max	10.00	0.00	1	0.00	1	0.00	1	20085.80	7	6002.74	1	-376.04	4
509	-6	43	Min.	0.00	0.00	1	0.00	1	0.00	1	16300.00	2	2902.03	8	-584.67	5
509	-6	43	Min.	10.00	0.00	1	0.00	1	0.00	1	16911.20	2	4572.77	8	-584.67	5
509	15	-6	Max	0.00	0.00	1	0.00	1	0.00	1	7768.25	3	-14818.80	2	-376.16	4
509	15	-6	Max	156.46	0.00	1	0.00	1	0.00	1	19311.70	7	4042.31	1	-376.16	4
509	15	-6	Min.	0.00	0.00	1	0.00	1	0.00	1	7105.04	6	-17512.40	7	-584.79	5
509	15	-6	Min.	156.46	0.00	1	0.00	1	0.00	1	16300.50	2	2902.03	8	-584.79	5
509	21	15	Max	0.00	0.00	1	0.00	1	0.00	1	-2831.24	4	-26561.20	2	-375.96	4
509	21	15	Max	54.00									-27328.10	2		
509	21	15	Max	270.00	0.00	1	0.00	1	0.00	1	14281.80	3	-14818.80	2	-375.96	4
509	21	15	Min.	0.00	0.00	1	0.00	1	0.00	1	-4312.90	5	-30701.30	7	-584.55	5
509	21	15	Min.	64.13									-32062.10	7		
509	21	15	Min.	270.00	0.00	1	0.00	1	0.00	1	11625.80	6	-17512.40	7	-584.55	5
509	23	21	Max	0.00	0.00	1	0.00	1	0.00	1	-10422.70	4	-16660.30	6	-375.73	4
509	23	21	Max	189.74									-26576.80	2		
509	23	21	Max	197.14	0.00	1	0.00	1	0.00	1	585.30	3	-26561.20	2	-375.73	4
509	23	21	Min.	0.00	0.00	1	0.00	1	0.00	1	-13329.30	5	-18299.00	3	-584.29	5
509	23	21	Min.	190.97									-30713.90	7		
509	23	21	Min.	197.14	0.00	1	0.00	1	0.00	1	236.43	6	-30701.30	7	-584.29	5
509	-8	23	Max	0.00	0.00	1	0.00	1	0.00	1	-23553.10	4	31651.70	5	-375.75	4
509	-8	23	Max	275.80	0.00	1	0.00	1	0.00	1	-6192.51	4	-16660.30	6	-375.75	4
509	-8	23	Min.	0.00	0.00	1	0.00	1	0.00	1	-29082.20	5	23331.60	4	-584.32	5
509	-8	23	Min.	275.80	0.00	1	0.00	1	0.00	1	-7458.57	5	-18298.90	3	-584.32	5
509	45	-8	Max	0.00	0.00	1	0.00	1	0.00	1	-24238.00	4	34601.50	5	-353.68	4
509	45	-8	Max	10.00	0.00	1	0.00	1	0.00	1	-23551.80	4	31652.30	5	-353.68	4
509	45	-8	Min.	0.00	0.00	1	0.00	1	0.00	1	-29924.90	5	25720.60	4	-554.38	5
509	45	-8	Min.	10.00	0.00	1	0.00	1	0.00	1	-29080.70	5	23332.00	4	-554.38	5
511	-3	6	Max	0.00	0.00	1	0.00	1	0.00	1	15875.50	5	3874.65	2	-9609.74	6
511	-3	6	Max	10.00	0.00	1	0.00	1	0.00	1	16779.30	5	5335.27	1	-9609.74	6
511	-3	6	Min.	0.00	0.00	1	0.00	1	0.00	1	11173.30	4	-422.14	7	-14347.90	3
511	-3	6	Min.	10.00	0.00	1	0.00	1	0.00	1	11788.00	4	898.27	8	-14347.90	3
511	8	-3	Max	0.00	0.00	1	0.00	1	0.00	1	3880.90	1	-6205.88	4	-9609.73	6
511	8	-3	Max	145.00	0.00	1	0.00	1	0.00	1	15872.90	5	3874.06	2	-9609.73	6
511	8	-3	Min.	0.00	0.00	1	0.00	1	0.00	1	2622.75	8	-14339.30	5	-14348.10	3
511	8	-3	Min.	145.00	0.00	1	0.00	1	0.00	1	11171.40	4	-422.92	7	-14348.10	3
511	44	8	Max	0.00	0.00	1	0.00	1	0.00	1	14385.70	1	-6377.76	4	-9290.92	6
511	44	8	Max	14.95	0.00	1	0.00	1	0.00	1	15518.10	1	-4571.79	4	-9290.92	6
511	44	8	Min.	0.00	0.00	1	0.00	1	0.00	1	10644.90	8	-15979.10	5	-14474.10	3
511	44	8	Min.	14.95	0.00	1	0.00	1	0.00	1	11481.20	8	-13896.90	5	-14474.10	3
511	18	44	Max	0.00	0.00	1	0.00	1	0.00	1	-7716.68	4	-15518.00	8	2159.02	3
511	18	44	Max	121.79									-21784.40	4		
511	18	44	Max	354.30	0.00	1	0.00	1	0.00	1	20052.80	3	-3950.09	4	2159.02	3
511	18	44	Min.	0.00	0.00	1	0.00	1	0.00	1	-12025.30	5	-23346.20	1	1136.52	6
511	18	44	Min.	148.36									-30796.30	5		
511	18	44	Min.	354.30	0.00	1	0.00	1	0.00	1	13972.00	6	-12337.90	5	1136.52	6
511	22	18	Max	0.00	0.00	1	0.00	1	0.00	1	-5258.28	4	-9898.13	8	2329.22	7
511	22	18	Max	119.04									-14096.90	4		
511	22	18	Max	178.00	0.00	1	0.00	1	0.00	1	3220.30	3	-13337.80	4	2329.22	7
511	22	18	Min.	0.00	0.00	1	0.00	1	0.00	1	-9625.03	5	-15623.10	1	1523.49	2
511	22	18	Min.	159.09									-22202.50	5		

511	22	18	Min.	178.00	0.00	1	0.00	1	0.00	1	514.14	6	-22093.40	5	1523.49	2
511	-9	22	Max	0.00	0.00	1	0.00	1	0.00	1	-13809.30	4	18048.20	5	2933.73	5
511	-9	22	Max	283.55									-10183.80	2		
511	-9	22	Max	387.76	0.00	1	0.00	1	0.00	1	5463.34	3	-7661.13	4	2933.73	5
511	-9	22	Min.	0.00	0.00	1	0.00	1	0.00	1	-21588.00	5	8571.27	4	1704.71	4
511	-9	22	Min.	325.96									-16563.60	7		
511	-9	22	Min.	387.76	0.00	1	0.00	1	0.00	1	3063.56	6	-15424.80	5	1704.71	4
511	27	-9	Max	0.00	0.00	1	0.00	1	0.00	1	-14339.90	4	20242.10	5	2933.40	5
511	27	-9	Max	9.99	0.00	1	0.00	1	0.00	1	-13809.00	4	18048.10	5	2933.40	5
511	27	-9	Min.	0.00	0.00	1	0.00	1	0.00	1	-22298.00	5	9978.52	4	1704.55	4
511	27	-9	Min.	9.99	0.00	1	0.00	1	0.00	1	-21588.80	5	8571.33	4	1704.55	4
511	-10	27	Max	0.00	0.00	1	0.00	1	0.00	1	7572.16	1	7322.96	5	-8460.99	2
511	-10	27	Max	10.00	0.00	1	0.00	1	0.00	1	8480.93	1	8103.54	5	-8460.99	2
511	-10	27	Min.	0.00	0.00	1	0.00	1	0.00	1	5088.59	8	3208.01	4	-12679.40	7
511	-10	27	Min.	10.00	0.00	1	0.00	1	0.00	1	5793.83	8	3774.02	4	-12679.40	7
511	48	-10	Max	0.00	0.00	1	0.00	1	0.00	1	-8152.50	6	10009.90	7	-8460.85	2
511	48	-10	Max	109.25									4329.61	5		
511	48	-10	Max	190.00	0.00	1	0.00	1	0.00	1	7573.13	1	7323.38	5	-8460.85	2
511	48	-10	Min.	0.00	0.00	1	0.00	1	0.00	1	-10763.60	3	6203.35	2	-12679.20	7
511	48	-10	Min.	117.56									1270.34	4		
511	48	-10	Min.	190.00	0.00	1	0.00	1	0.00	1	5089.54	8	3208.31	4	-12679.20	7
517	17	-7	Max	0.00	0.00	1	0.00	1	0.00	1	-13707.30	6	5340.32	3	1231.97	3
517	17	-7	Max	9.99	0.00	1	0.00	1	0.00	1	-13158.40	6	3450.82	4	1231.97	3
517	17	-7	Min.	0.00	0.00	1	0.00	1	0.00	1	-20199.10	3	863.16	6	231.49	6
517	17	-7	Min.	9.99	0.00	1	0.00	1	0.00	1	-19481.30	3	-572.28	5	231.49	6
517	-7	24	Max	0.00	0.00	1	0.00	1	0.00	1	-13156.10	6	3451.87	4	1228.99	3
517	-7	24	Max	309.42									-16992.80	2		
517	-7	24	Max	340.26	0.00	1	0.00	1	0.00	1	2506.69	6	-16805.20	2	1228.99	3
517	-7	24	Min.	0.00	0.00	1	0.00	1	0.00	1	-19480.30	3	-571.70	5	231.92	6
517	-7	24	Min.	296.66									-26894.50	7		
517	-7	24	Min.	340.26	0.00	1	0.00	1	0.00	1	985.89	3	-26396.00	7	231.92	6
517	24	29	Max	0.00	0.00	1	0.00	1	0.00	1	-6641.19	6	-12824.10	2	198.05	3
517	24	29	Max	177.10									-22551.40	6		
517	24	29	Max	352.00	0.00	1	0.00	1	0.00	1	8350.09	7	-16990.20	6	198.05	3
517	24	29	Min.	0.00	0.00	1	0.00	1	0.00	1	-10911.80	3	-25829.90	7	-21.07	6
517	24	29	Min.	224.40									-34009.80	3		
517	24	29	Min.	352.00	0.00	1	0.00	1	0.00	1	4346.54	2	-30036.20	3	-21.07	6
517	29	-17	Max	0.00	0.00	1	0.00	1	0.00	1	-3277.90	8	-17645.80	6	-151.60	2
517	29	-17	Max	86.03									-19086.70	6		
517	29	-17	Max	387.76	0.00	1	0.00	1	0.00	1	19918.10	7	1569.52	7	-151.60	2
517	29	-17	Min.	0.00	0.00	1	0.00	1	0.00	1	-4771.74	1	-27360.30	3	-891.33	7
517	29	-17	Min.	89.67									-29497.00	3		
517	29	-17	Min.	387.76	0.00	1	0.00	1	0.00	1	13630.20	2	-2679.70	2	-891.33	7
517	-17	41	Max	0.00	0.00	1	0.00	1	0.00	1	19919.40	7	1569.28	7	-150.90	2
517	-17	41	Max	9.99	0.00	1	0.00	1	0.00	1	20664.40	7	3596.08	7	-150.90	2
517	-17	41	Min.	0.00	0.00	1	0.00	1	0.00	1	13630.90	2	-2679.74	2	-891.74	7
517	-17	41	Min.	9.99	0.00	1	0.00	1	0.00	1	14215.20	2	-1289.08	2	-891.74	7
518	-11	46	Max	0.00	0.00	1	0.00	1	0.00	1	19743.80	3	15612.10	3	-5630.38	2
518	-11	46	Max	10.00	0.00	1	0.00	1	0.00	1	20435.60	3	17620.70	3	-5630.38	2
518	-11	46	Min.	0.00	0.00	1	0.00	1	0.00	1	13390.20	6	9731.62	6	-8407.94	7

518	-11	46	Min.	10.00	0.00	1	0.00	1	0.00	1	13865.70	6	11094.10	6	-8407.94	7
518	38	-11	Max	0.00	0.00	1	0.00	1	0.00	1	8631.75	3	-7562.11	2	-5629.84	2
518	38	-11	Max	190.00	0.00	1	0.00	1	0.00	1	19747.00	3	15612.50	3	-5629.84	2
518	38	-11	Min.	0.00	0.00	1	0.00	1	0.00	1	5943.71	6	-11333.70	7	-8407.32	7
518	38	-11	Min.	190.00	0.00	1	0.00	1	0.00	1	13393.80	6	9731.89	6	-8407.32	7
519	47	-12	Max	0.00	0.00	1	0.00	1	0.00	1	-3294.56	5	3533.88	7	1380.97	6
519	47	-12	Max	10.00	0.00	1	0.00	1	0.00	1	-3269.60	6	3165.67	7	1380.97	6
519	47	-12	Min.	0.00	0.00	1	0.00	1	0.00	1	-4065.62	4	1525.80	2	1300.20	3
519	47	-12	Min.	10.00	0.00	1	0.00	1	0.00	1	-3996.25	3	1162.94	2	1300.20	3
519	-12	36	Max	0.00	0.00	1	0.00	1	0.00	1	-3270.26	6	3165.56	7	1381.01	6
519	-12	36	Max	385.62	0.00	1	0.00	1	0.00	1	-6727.83	2	-15490.20	6	1381.01	6
519	-12	36	Min.	0.00	0.00	1	0.00	1	0.00	1	-3996.93	3	1162.82	2	1300.31	3
519	-12	36	Min.	385.62	0.00	1	0.00	1	0.00	1	-10015.60	7	-20390.80	3	1300.31	3
519	36	48	Max	0.00	0.00	1	0.00	1	0.00	1	-10007.90	6	-15490.20	6	1381.32	6
519	36	48	Max	70.13	0.00	1	0.00	1	0.00	1	-11829.90	2	-23144.30	6	1381.32	6
519	36	48	Min.	0.00	0.00	1	0.00	1	0.00	1	-13696.10	3	-20390.80	3	1300.71	3
519	36	48	Min.	70.13	0.00	1	0.00	1	0.00	1	-16117.80	7	-30822.40	3	1300.71	3
519	48	-15	Max	0.00	0.00	1	0.00	1	0.00	1	-3391.82	4	-14130.40	6	11329.60	7
519	48	-15	Max	10.00	0.00	1	0.00	1	0.00	1	-2922.08	4	-14478.60	6	11329.60	7
519	48	-15	Min.	0.00	0.00	1	0.00	1	0.00	1	-5640.38	5	-18699.80	3	7558.62	2
519	48	-15	Min.	10.00	0.00	1	0.00	1	0.00	1	-5046.32	5	-19202.20	3	7558.62	2
519	-15	-16	Max	0.00	0.00	1	0.00	1	0.00	1	-2921.95	4	-14477.20	6	11332.90	7
519	-15	-16	Max	74.55									-15690.40	6		
519	-15	-16	Max	284.01	0.00	1	0.00	1	0.00	1	11569.30	3	-6559.78	2	11332.90	7
519	-15	-16	Min.	0.00	0.00	1	0.00	1	0.00	1	-5046.11	5	-19200.20	3	7561.42	2
519	-15	-16	Min.	79.88									-21047.50	3		
519	-15	-16	Min.	284.01	0.00	1	0.00	1	0.00	1	8185.73	6	-9501.01	7	7561.42	2
519	-16	38	Max	0.00	0.00	1	0.00	1	0.00	1	11569.20	3	-6553.77	2	11340.50	7
519	-16	38	Max	10.01	0.00	1	0.00	1	0.00	1	12122.10	3	-5623.73	2	11340.50	7
519	-16	38	Min.	0.00	0.00	1	0.00	1	0.00	1	8186.15	6	-9492.00	7	7566.63	2
519	-16	38	Min.	10.01	0.00	1	0.00	1	0.00	1	8557.61	6	-8398.20	7	7566.63	2
520	46	27	Max	0.00	0.00	1	0.00	1	0.00	1	-39.24	4	1545.27	7	11784.60	7
520	46	27	Max	304.02	0.00	1	0.00	1	0.00	1	-8182.22	4	-12804.80	4	11784.60	7
520	46	27	Min.	0.00	0.00	1	0.00	1	0.00	1	-1899.34	5	-2302.07	2	7669.40	2
520	46	27	Min.	304.02	0.00	1	0.00	1	0.00	1	-14651.10	5	-21952.60	5	7669.40	2
520	28	46	Max	0.00	0.00	1	0.00	1	0.00	1	-16014.50	4	5179.47	7	-2651.84	6
520	28	46	Max	55.98	0.00	1	0.00	1	0.00	1	-14969.20	4	-6331.48	8	-2651.84	6
520	28	46	Min.	0.00	0.00	1	0.00	1	0.00	1	-22122.60	5	824.13	2	-6609.77	3
520	28	46	Min.	55.98	0.00	1	0.00	1	0.00	1	-21277.20	5	-8462.55	1	-6609.77	3
520	30	28	Max	0.00	0.00	1	0.00	1	0.00	1	-7705.51	4	25746.90	5	-1983.40	6
520	30	28	Max	340.00	0.00	1	0.00	1	0.00	1	-3443.82	4	1983.44	7	-1983.40	6
520	30	28	Min.	0.00	0.00	1	0.00	1	0.00	1	-11003.30	5	16634.80	4	-4623.02	3
520	30	28	Min.	340.00	0.00	1	0.00	1	0.00	1	-5746.65	5	-2044.69	2	-4623.02	3
520	37	30	Max	0.00	0.00	1	0.00	1	0.00	1	-6363.69	4	29293.00	5	-1681.09	6
520	37	30	Max	203.44									19932.80	7		
520	37	30	Max	350.00	0.00	1	0.00	1	0.00	1	5241.20	3	23918.00	7	-1681.09	6
520	37	30	Min.	0.00	0.00	1	0.00	1	0.00	1	-9294.25	5	19068.70	4	-3299.09	3
520	37	30	Min.	215.47									12619.60	2		
520	37	30	Min.	350.00	0.00	1	0.00	1	0.00	1	3320.37	6	14970.50	2	-3299.09	3
520	39	37	Max	0.00	0.00	1	0.00	1	0.00	1	-6478.39	4	32748.80	5	-1529.29	2

520	39	37	Max	204.53								22620.00	5		
520	39	37	Max	350.00	0.00	1	0.00	1	0.00	1	7546.70	3	28120.70	7	-1529.29 2
520	39	37	Min.	0.00	0.00	1	0.00	1	0.00	1	-9771.28	5	20505.40	4	-2250.53 7
520	39	37	Min.	188.13									14342.10	4	
520	39	37	Min.	350.00	0.00	1	0.00	1	0.00	1	5075.65	6	18511.10	2	-2250.53 7
520	40	39	Max	0.00	0.00	1	0.00	1	0.00	1	-4039.56	4	34309.70	5	-613.84 2
520	40	39	Max	193.38									28055.70	5	
520	40	39	Max	340.00	0.00	1	0.00	1	0.00	1	6843.73	3	32439.00	7	-613.84 2
520	40	39	Min.	0.00	0.00	1	0.00	1	0.00	1	-5938.59	5	20528.30	4	-2326.89 7
520	40	39	Min.	171.06									16859.60	4	
520	40	39	Min.	340.00	0.00	1	0.00	1	0.00	1	4484.94	6	21088.40	2	-2326.89 7
520	41	40	Max	0.00	0.00	1	0.00	1	0.00	1	12666.60	7	-2512.54	6	221.22 2
520	41	40	Max	410.00	0.00	1	0.00	1	0.00	1	11403.80	3	35381.40	5	221.22 2
520	41	40	Min.	0.00	0.00	1	0.00	1	0.00	1	6679.03	2	-7111.42	3	-2668.54 7
520	41	40	Min.	410.00	0.00	1	0.00	1	0.00	1	7916.81	6	21988.80	4	-2668.54 7

Criteri di progetto utilizzati

Pilastrini in c.a.

Generali

Pilastrino prefabbricato	no
Tipo verifica di stabilità	
-Per N*Omega-M e per N-c*M (standard)	si
-Per N*Omega-c*M (doppia)	no
-Per N*Omega (sforzo normale e momento nullo)	no
-Per c*M (momento e sforzo normale nullo)	no
Max angolo di piegatura ferri <grad>	20.00
Progettazione armatura di ripresa	si
Minimizzazione armatura di ripresa	no
Minimizzazione area di ferro totale nella sezione	no
Verifiche in relazione	Minimizzate
Lunghezza ancoraggi	
-Lunghezza imposta come multiplo del diametro	40.00
Ancoraggi tutti uguali	si
Piegatura ancoraggi per discontinuità	si
Piegatura ancoraggi ferri di ripresa	si
Staffatura a spirale pilastri circolari	si
Cambiare le staffe nei nodi appartenenti all'impalcato 0	Se sul nodo incidono elementi
Scala disegno sezioni pilastri	25.00
Scala disegno viste pilastri	50.00
Creazione tabelle pilastri	si
-Tipo di tabella	Armature disposte dal basso verso

	l'alto	
-Max lunghezza tavole <cm>	70.00	
-Max altezza tavole <cm>	50.00	
Creazione viste pilastri	si	
-Disegno ferri dentro pilastro in vista	si	
-Disegno staffe dentro pilastro in vista	si	
-Modalità di individuazione ferri		
-Modalità di indicazione ferri	Mediante una tabella	
-Minimizzazione riferimenti	si	
Specifici	1	5
Calcestruzzo		
-Rbk calcestruzzo <kg/cm ² >	300.00	300.00
-Modulo elastico <kg/cm ² >	312202.00	312202.00
-Resistenza caratteristica cilindrica (F _{ck}) <kg/cm ² >	249.00	249.00
-Resistenza caratteristica a trazione (F _{ctm}) <kg/cm ² >	18.25	18.25
-Gamma c per stati limite ultimi		
-Automatico	x	x
-Pari a		
-Sigma amm. Calcestruzzo <kg/cm ² >	97.50	97.50
-Resistenza teorica a trazione <kg/cm ² >	18.10	18.10
-Tauc0 <kg/cm ² >	6.00	6.00
-Tauc1 <kg/cm ² >	18.20	18.20
Acciaio		
-Tipo di acciaio (Fe B 22÷44 k)	44	44
-Modulo elastico <kg/cm ² >	2.06E+006	2.06E+006
-Tensione caratteristica di snervamento (F _{yk}) <kg/cm ² >	4300.00	4300.00
-Gamma s per stati limite ultimi		
-Automatico	x	x
-Pari a		
-Sigma amm. acciaio <kg/cm ² >	2600.00	2600.00
-Sigma amm. reti e tralicci <kg/cm ² >	2600.00	2600.00
Coeff. di omogeneizzazione	15.00	15.00
Strategia di progetto	RETTANG	RETTANG
Copriferro reale al bordo staffa <cm>	2.50	2.50
Diametro staffa teorica <mm>	9.00	9.00
Continuità dei ferri nei nodi appartenenti all'impalcato 0	Si	Si
Coeff. Beta in direzione Z locale	1.00	1.00
Coeff. Beta in direzione Y locale	1.00	2.00
Armatura secondo Circ. 65 del 10/04/97	No	No
-Staffatura interna al nodo		
-Raffittimento staffe in testa e al piede del pilastro		
-Passo <cm>		
Verifiche a pressoflessione deviata	No	No
Elenco diametri ferri longitudinali 1 <mm>	12	12
Elenco diametri ferri longitudinali 2 <mm>	14	14
Elenco diametri ferri longitudinali 3 <mm>	16	16

Elenco diametri ferri longitudinali 4 <mm>	18	18
Elenco diametri ferri longitudinali 5 <mm>	20	20
Elenco diametri ferri longitudinali 6 <mm>		
Elenco diametri ferri longitudinali 7 <mm>		
Max distanza fra i ferri su un lato <cm>	30.00	30.00
Min. interferro ammissibile <cm>	7.00	7.00
Distanza fra i ferri di spigolo <cm>	3.00	3.00
Min. numero ferri per pilastri circolari	8.00	8.00
Reggistaffe aggiuntivi sezioni non rettangolari	Si	Si
Fattore di riduzione Tauc0 per ancoraggio ferri	0.70	0.70
Elenco diametri staffe 1 <mm>	8	8
Elenco diametri staffe 2 <mm>	10	10
Elenco diametri staffe 3 <mm>		
Elenco diametri staffe 4 <mm>		
Elenco diametri staffe 5 <mm>		
Elenco diametri staffe 6 <mm>		
Elenco diametri staffe 7 <mm>		
Passi staffe		
-Minimo <cm>	4.00	4.00
-Massimo <cm>	30.00	30.00
-Incremento <cm>	2.00	2.00
Tipo di minimizzazione staffatura		
-Minimizza il numero delle staffe		
-Minimizza il peso delle staffe	x	x
Max distanza fra ferri non collegati <cm>	15.00	15.00
Max numero ferri non collegati	2.00	2.00
Collegamento ferri con staffe anziché con spilli	Si	Si
Ferri orizzontali pareti realizzati con staffe	No	No
Quota di alleggerimento n. 1 <m>	0.00	0.00
Quota di alleggerimento n. 2 <m>	0.00	0.00
Quota di alleggerimento n. 3 <m>	0.00	0.00
Quota di alleggerimento n. 4 <m>	0.00	0.00
Quota di alleggerimento n. 5 <m>	0.00	0.00
Quota di alleggerimento n. 6 <m>	0.00	0.00
Quota di alleggerimento n. 7 <m>	0.00	0.00
Distanza fra ferri su più strati <cm>	1.00	1.00
Integrare lo scorrimento lungo il tratto	No	No
-Lunghezza del tratto	1.00	1.00
Gruppo di esigenza		
-Ambiente poco aggressivo	x	x
-Ambiente moderatamente aggressivo		
-Ambiente molto aggressivo		
Usa dominio N-M per flessioni rette	Si	Si
-Ricerca della sicurezza con sforzo normale costante		
-Ricerca della sicurezza con eccentricità costante	x	x
Controllo rapporto X/D	No	No
Barre da considerare tese per verifiche a taglio		
-Solo le barre con deformazione percentuale rispetto alla barra più tesa non inferiore al <%>	30.00	30.00
-Tutte le barre in trazione		

Travi in c.a.

Generali

Passo di progettazione <m>	0.30						
Tipo di sollecitazioni zone rigide	Smorzate						
Min. angolo per spinte a vuoto <grad>	10.00						
Invertire i ferri anche in presenza di pilastro sottostante							
Max differenza larghezza travi continue <cm>	5.00						
Sequenza di progetto:	PFS EAT UFA	PRG PFP ARF	URG EFI CIF	SRG UFA PST	SFA UFS	PFA EFB	
Max lunghezza barre <m>	8.00						
Arrotondamento lunghezza ferri <cm>	50.00						
Lunghezza ferri nei muri d'estremità <m>	1.20						
Min. interferro ammissibile <cm>	2.00						
Elenco diametri minimizzazione interferri <mm>	16 18 20 22						
Riduzione ancoraggi							
-Nella zona compressa per flessione	si						
-Nei punti inferiori della travata	si						
Considerare nel calcolo degli ancoraggi i risvolti specificati nei criteri generali di disegno							
Interruzione reggistaffe in campata	no						
Modalità di sovrapposizione reggistaffe	Per garantire la copertura del momento negativo						
Modalità di unificazione reggistaffe	Solo se la geometria della travata e la lunghezza totale delle barre lo consentono						
Min. percentuale di regolamento							
-Per le travi di fondazione	no						
-Per le travi di elevazione	si						
Per le travi di fondazione ai sensi Ord. 3431 considerare 0.2% anziché 1.4/fyk	no						
Min. di armatura a taglio							
-Per le travi di fondazione	no						
-Per le travi di elevazione	si						
Tipo di armatura per taglio (T.A.)	Mista						
Controllo passo e 12Fi	si						
Min. di regolamento a torsione nell'ala	no						
Min. di regolamento nell'ala	no						
Verifiche a flessione in relazione	Minimizzate						
Verifiche a taglio in relazione	Max scorrimento per taglio e torsione						

Tipo di distribuzione armatura eccedente	Ripartita proporzionalmente per flessione, torsione e taglio
Scala disegno travi	50.00
Scala disegno sezioni	25.00
Campitura sezioni	Fitta
Disegno sezione travi in falso	si
Campitura travi in falso	Fitta
Campitura muri	Rada
Tipo di quotatura luci nette trave	Con riferimento ai pilastri superiori
Lunghezza monconi di pilastro	Minimizzata
Linee di riferimento quote	si
Quotatura zone di staffatura	no
Quotatura zone di staffatura	no
Indicazione numero bracci staffe	Solo se il numero è maggiore di due
Disegno ferri dentro la trave	si
Disegno esploso ferri di parete	no
Distanza fra ferri esplosi <cm>	0.10
Disegno reggistaffe aggiuntivi per travi a T e L	Reggistaffe aggiuntivi tipo 3
Posizione staffe esterne	In automatico
Disegno staffe dentro la sezione	si

Specifici	1	2
Calcestruzzo		
-Rbk calcestruzzo <kg/cm ² >	300.00	300.00
-Modulo elastico <kg/cm ² >	312202.00	312202.00
-Resistenza caratteristica cilindrica (Fck) <kg/cm ² >	249.00	249.00
-Resistenza caratteristica a trazione (Fctm) <kg/cm ² >	18.25	18.25
-Gamma c per stati limite ultimi		
-Automatico	x	x
-Pari a		
-Sigma amm. Calcestruzzo <kg/cm ² >	97.50	97.50
-Resistenza teorica a trazione <kg/cm ² >	18.10	18.10
-Tauc0 <kg/cm ² >	6.00	6.00
-Tauc1 <kg/cm ² >	18.20	18.20
Acciaio		
-Tipo di acciaio (Fe B 22÷44 k)	44	44
-Modulo elastico <kg/cm ² >	2.06E+006	2.06E+006
-Tensione caratteristica di snervamento (Fyk) <kg/cm ² >	4300.00	4300.00
-Gamma s per stati limite ultimi		
-Automatico	x	x
-Pari a		
-Sigma amm. acciaio <kg/cm ² >	2600.00	2600.00
-Sigma amm. reti e tralicci <kg/cm ² >	2600.00	2600.00
Coeff. di omogeneizzazione	15.00	15.00
Progetto a pressoflessione	No	Si

-Per tutte le travi		
-Solo per travi inclinate		x
-Min. angolo per pressoflessione <grad>		10.00
-Compressione massima senza progetto a pressoflessione <%>		10.00
Progetto a torsione	Si	No
-Trazione senza progetto a torsione<%>	10.00	
Armatura secondo Circ. 65 del 10/04/97	No	No
Sollecitazioni complanari ad eventuali elementi bidimensionali	No	No
Copriferro teorico superiore <cm>	4.00	3.50
Copriferro teorico inferiore <cm>	4.00	3.50
Min. momento fittizio agli appoggi	Si	Si
-Denominatore	14.00	14.00
Min. momento fittizio in campata	Si	Si
-Denominatore	16.00	16.00
Incremento percentuale momento in campata <%>	10.00	10.00
Usa taglio max per traslazione momento (S.L.)	Si	Si
Usa anche taglio da momento resistente per traslazione momento (S.L.)	No	No
Limitare momento traslato al valore max di appoggio (S.L.)	Si	Si
Limitare momento traslato al valore max di campata (S.L.)	Si	Si
Taglio da momento resistente in fondazione (S.L.)	No	No
Denominatore per individuazione zona di campata	12.00	12.00
Fattore di copertura appoggi (0÷1)	0.60	0.60
Tipo di progetto in doppia armatura (T.A.)		
-Tensioni pari ai valori amm.		
-Tensioni pari ai valori amm. con AfComp/AfTesa minore o pari a	1.00	1.00
-Con AfComp/AfTesa pari a		
Fattore di riduzione per ancoraggio ferri	0.70	0.70
Elenco diametri ferri longitudinali 1 <mm>	12	12
Elenco diametri ferri longitudinali 2 <mm>	14	14
Elenco diametri ferri longitudinali 3 <mm>	16	16
Elenco diametri ferri longitudinali 4 <mm>	18	18
Elenco diametri ferri longitudinali 5 <mm>		20
Elenco diametri ferri longitudinali 6 <mm>		24
Elenco diametri ferri longitudinali 7 <mm>		
Max differenza fra diametri nella trave	6.00	8.00
Max differenza fra diametri ferri accoppiati	4.00	4.00
Reggistaffe superiori		
-Numero		
-Pari a	2.00	2.00
-Max mutua distanza <cm>		
-Diametro		
-Automatico		x
-Pari a <mm>		
-Minimo <mm>	12.00	
Reggistaffe inferiori		
-Numero		
-Pari a		2.00
-Max mutua distanza <cm>	25.00	
-Diametro		
-Automatico		x

-Pari a <mm>		
-Minimo <mm>	12.00	
Scorrimento (T.A.)		
-Percentuale assorbita dalle staffe <%>	100.00	100.00
-Percentuale assorbita dai ferri piegati <%>	0.00	0.00
-Percentuale assorbita dai ferri di parete <%>	0	0
-Considerare il valore relativo alle staffe come minimo percentuale da adottare	No	No
Variabilità staffe		
-Staffe uguali a passo costante		
-Staffe diverse in tre parti della trave in funzione di	x	x
-Staffe diverse in tre parti della trave in funzione di un multiplo dell'altezza pari a		
Variabilità staffe ala		
-Passi uguali a passi anima	x	x
-Passi multipli di passi anima		
-Passi indipendenti da passi anima		
Min. lunghezza tratto centrale come multiplo dell'altezza della trave	1.10	1.10
Elenco diametri staffe 1 <mm>	8	8
Elenco diametri staffe 2 <mm>	10	10
Elenco diametri staffe 3 <mm>	12	12
Elenco diametri staffe 4 <mm>		
Elenco diametri staffe 5 <mm>		
Elenco diametri staffe 6 <mm>		
Elenco diametri staffe 7 <mm>		
Elenco numero bracci staffe 1	2	2
Elenco numero bracci staffe 2	4	4
Elenco numero bracci staffe 3		
Elenco numero bracci staffe 4		
Elenco numero bracci staffe 5		
Passi staffe		
-Minimo <cm>	10.00	10.00
-Massimo <cm>	30.00	30.00
-Incremento <cm>	5.00	5.00
Elementi costanti		
-Diametro	Si	Si
-Passo	No	No
-Bracci	Si	Si
Tipo di minimizzazione staffatura		
-Minimizza il numero delle staffe	x	x
-Minimizza il peso delle staffe		
Raffittimento staffe all'estremità della trave	No	No
-Passo non superiore a		
Lunghezza max del tratto di calcolo scorrimento		
-Pari al tratto in cui $\tau > \tau_{uc0}$	x	x
-Pari a <cm>		
-Come multiplo dell'altezza pari a		
Elenco diametri ferri piegati 1 <mm>	12	12
Elenco diametri ferri piegati 2 <mm>	14	14
Elenco diametri ferri piegati 3 <mm>	16	16

Elenco diametri ferri piegati 4 <mm>	18	18
Elenco diametri ferri piegati 5 <mm>		20
Elenco diametri ferri piegati 6 <mm>		
Elenco diametri ferri piegati 7 <mm>		
Angolo di piegatura <grad>	45.00	45.00
Posizione primo punto di piegatura		
-Pari al multiplo dell'altezza		
-Distanza <cm>	5.00	5.00
Interasse punti di piegatura		
-Pari al multiplo dell'altezza		
-Distanza <cm>	25.00	25.00
Tipo di ferri piegati		
-Solo sagomati		
-Solo cavallotti		
-Sia sagomati che cavallotti	x	x
Ferri di parete	Si	Si
-Max distanza fra le barre <cm>	30.00	30.00
Elenco diametri ferri di parete 1 <mm>	10	12
Elenco diametri ferri di parete 2 <mm>	12	14
Elenco diametri ferri di parete 3 <mm>	14	16
Elenco diametri ferri di parete 4 <mm>		18
Elenco diametri ferri di parete 5 <mm>		20
Elenco diametri ferri di parete 6 <mm>		
Elenco diametri ferri di parete 7 <mm>		
Elenco diametri staffe orizzontali 1 <mm>	10	8
Elenco diametri staffe orizzontali 2 <mm>	12	10
Elenco diametri staffe orizzontali 3 <mm>		
Elenco diametri staffe orizzontali 4 <mm>		
Elenco diametri staffe orizzontali 5 <mm>		
Elenco diametri staffe orizzontali 6 <mm>		
Elenco diametri staffe orizzontali 7 <mm>		
Max differenza fra diametri per unificazioni	2.00	2.00
Max distanza fra barre per unificazioni <m>	1.00	1.00
Risolto ferri superiori	Si	Si
-Pari a <cm>		
-Pari all'altezza della trave	x	x
Risolto ferri inferiori	Si	Si
-Pari a <cm>		
-Pari all'altezza della trave	x	x
Risolto ferri laterali	Si	Si
-Pari a <cm>		
-Pari alla larghezza della trave	x	x
Magrone	Si	Si
-Allargamento laterale <cm>	20.00	20.00
-Altezza <cm>	20.00	20.00
Copriferro reale al bordo staffa <cm>	3.00	2.50
Diametro staffa teorica <mm>	8.00	8.00
Distanza fra ferri su più strati <cm>	2.00	1.50
Integrare lo scorrimento lungo il tratto	Si	Si
-Lunghezza del tratto <m>	1.00	1.00

Gruppo di esigenza

-Ambiente poco aggressivo	x	x
-Ambiente moderatamente aggressivo		
-Ambiente molto aggressivo		
Usa dominio N-M per flessioni rette	Si	Si
-Ricerca della sicurezza con sforzo normale costante		
-Ricerca della sicurezza con eccentricità costante	x	x
Controllo rapporto X/D	Si	Si
Barre da considerare tese per verifiche a taglio		
-Solo le barre con deformazione percentuale rispetto alla barra più tesa non inferiore al <%>	30.00	30.00
-Tutte le barre in trazione		

Aste in legno

Generali

Numero punti interni per controllo Sigma	15.00
Numero CC da considerare di tipo H	99.00
Sigma max amm. senza verifiche di stabilità <%>	2.00
Usa momenti equivalenti per verifiche di stabilità	si
Trascura sisma per verifiche di deformazione alle T.A.	si
-Considera azioni sismiche di durata	Molto breve/Istantanea
Verifiche da riportare in relazione	Tutte

Specifici

Tipo di legno	3
-Lamellare	
-Massiccio	x
Verifiche Tensioni Ammissibili (DIN 1052)	Si
Classificazione per verifiche di stabilità	S7
-Moduli di elasticità	
-Flessionale <kg/cm ² >	80000.00
-Assiale parallelo alle fibre <kg/cm ² >	80000.00
-Tangenziale <kg/cm ² >	5000.00
-Torsionale <kg/cm ² >	3330.00
-Tensioni ammissibili	
-Flessione <kg/cm ² >	70.00
-Compressione parallela alle fibre <kg/cm ² >	60.00
-Trazione parallela alle fibre <kg/cm ² >	0.00
-Taglio <kg/cm ² >	9.00
Verifiche Stati Limite (EC5)	Si
-Moduli di elasticità	
-Assiale parallelo alle fibre medio <kg/cm ² >	80000.00
-Assiale parallelo alle fibre frattile 5% <kg/cm ² >	54000.00
-Tangenziale <kg/cm ² >	5000.00
-Resistenze caratteristiche	
-Flessione <kg/cm ² >	160.00
-Compressione parallela alle fibre <kg/cm ² >	170.00
-Trazione parallela alle fibre <kg/cm ² >	0.00
-Taglio <kg/cm ² >	18.00

Considera incremento per sezioni piccole	No
DIN 1052	
-Percentuale di umidità u	
-<= 18%	x
-> 18%	
EC5	
-Classe di servizio	
-Classe di servizio 1	x
-Classe di servizio 2	
-Classe di servizio 3	
-Coeff. Gamma m	1.30
Massimo valore del rapporto tra la luce e la freccia	250.00
Riduzione lunghezza libera d'inflessione	
-Distanza fra i nodi dell'asta	x
-Distanza ridotta delle zone rigide moltiplicate per il valore	
Verifiche di stabilità globale in dir. Y locale	Si
-Coeff. Beta intorno all'asse Y	1.00
Verifiche di stabilità globale in dir. Z locale	Si
-Coeff. Beta intorno all'asse Z	1.00
Verifiche di stabilità laterale	Si
-Coeff. per calcolo interasse ritegni torsionali	1.00
Massimo numero aste costituenti unica membratura	1.00
Sforzo normale di verifica	
-Massimo valore fra tutte le aste	x
-Media aritmetica dei valori di tutte le aste	
-Media pesata di tutte le aste	
Contributo eventuali sforzi di trazione	No
Verifiche di stabilità globale in dir. Y locale	Si
-Coeff. Beta intorno all'asse Y	1.00
Verifiche di stabilità globale in dir. Z locale	Si
-Coeff. Beta intorno all'asse Z	1.00

Verifiche e armature travi

Simbologia

Xg	= Coordinata progressiva (dal primo nodo) in cui viene effettuato il progetto/verifica
CC	= Combinazione delle condizioni di carico elementari
c	= momento fittizio in campata
a	= momento fittizio agli appoggi
A	= taglio da classe A
TA	= momento traslato per taglio da classe A
T	= momento traslato per taglio
e	= eccentricità aggiuntiva in caso di compressione o pressoflessione
Cmb	= Tipo di combinazione di carico
Ind	= Indefinito
Tamm	= Calcolo con tensioni ammissibili
SLU	= Stato limite ultimo
SLU S	= Stato limite ultimo (azione sismica)
SLE R	= Stato limite d'esercizio, combinazione rara

	SLE F = Stato limite d'esercizio, combinazione frequente
	SLE Q = Stato limite d'esercizio, combinazione quasi permanente
EI	= Elemento (asta) in cui viene effettuato il progetto/verifica (progressivo sul numero di aste)
X	= Coordinata progressiva rispetto al nodo iniziale
AfT S	= Area di ferro teorica totale strettamente necessaria nel punto di verifica, superiore
AfT I	= Area di ferro teorica totale strettamente necessaria nel punto di verifica, inferiore
AfE S	= Area di ferro effettiva totale presente nel punto di verifica, superiore
AfE I	= Area di ferro effettiva totale presente nel punto di verifica, inferiore
My	= Momento flettente intorno all'asse Y
AfTP S	= Area di ferro teorica parziale strettamente necessaria nella CC considerata, per la sollecitazione indicata, superiore
AfTP I	= Area di ferro teorica parziale strettamente necessaria nella CC considerata, per la sollecitazione indicata, inferiore
AfEP S	= Area di ferro effettiva parziale presente nella CC considerata, per la sollecitazione indicata, superiore
AfEP I	= Area di ferro effettiva parziale presente nella CC considerata, per la sollecitazione indicata, inferiore
My ver.	= Momento flettente di verifica intorno all'asse Y
Myu	= Momento ultimo intorno all'asse Y
x/d	= Rapporto x/d a rottura
ε_Y	= Deformazione nell'acciaio (*1000)
ε_C	= Deformazione nel calcestruzzo (*1000)
TS	= Modalità di calcolo sicurezza
	N/e = N costante ed eccentricità costante
	My/e = My costante ed eccentricità costante
	My/N = My e N costante
	Mz/e = Mz costante ed eccentricità costante
	Mz/N = Mz e N costante
Sic.	= Sicurezza a rottura
σ_f sup	= Tensione nel ferro - superiore
σ_f inf	= Tensione nel ferro - inferiore
σ_c	= Tensione nel calcestruzzo
Tz ver.	= Taglio di verifica in direzione Z
X0	= Coordinata progressiva (dal nodo iniziale) dell'inizio del tratto di progettazione
X1	= Coordinata progressiva (dal nodo iniziale) della fine del tratto di progettazione
Lung.	= Lunghezza del tratto di progettazione
AfT St.	= Area di ferro teorica della staffatura (d'anima per travi a T o L)
Staff.	= Staffatura adottata
AfE St.	= Area di ferro effettiva della staffatura (d'anima per travi a T o L)
bw	= Larghezza membratura resistente al taglio

Vsdu = Taglio agente nella direzione del momento ultimo

Vrdu = Taglio ultimo assorbibile dal solo calcestruzzo

Vcd = Taglio ultimo assorbito dal calcestruzzo

Vwd = Taglio ultimo assorbito dall'armatura

AfE St. = Area di ferro effettiva della staffatura d'ala
ala

AfT St. = Area di ferro teorica della staffatura d'ala
ala

Travata n. 101 Nodi: 101 102 103 104 105

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente

Xg <m>	CC	EI X <cm>	AfT S <cmq>	AfT I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.50	1(T)	1 50.00	4.95	0.56	5.09	6.28	4.95	0.00	5.09	5.72	-1981.39	-2184.44	-13981.60	0.10	10.00	-1.13	N/e	6.40
1.69	1(T)	1 168.54	4.95	0.20	5.09	6.28	4.95	0.00	5.09	6.08	-574.65	-1085.52	-13983.50	0.10	10.00	-1.11	N/e	12.88
3.83	1(T)	1 382.50	4.95	0.73	10.18	12.57	4.95	0.00	10.18	11.84	-2143.95	-2536.78	-27805.10	0.12	10.00	-1.40	N/e	10.96
4.17	1(T)	2 35.00	4.95	0.58	10.18	12.57	4.95	0.00	10.18	11.99	-1316.09	-1703.14	-27807.40	0.12	10.00	-1.39	N/e	16.33
5.97	2(T)	2 214.88	0.00	4.97	5.09	6.28	0.00	4.95	5.09	6.26	1246.75	1287.27	17428.80	0.07	10.00	-0.75	N/e	13.54
7.42	1(T)	2 360.00	4.95	0.45	10.18	12.57	4.95	0.00	10.18	12.12	-385.59	-1044.48	-27809.60	0.12	10.00	-1.39	N/e	26.63
7.78	5(T)	3 35.00	4.95	0.38	5.09	12.57	4.95	0.00	5.09	12.18	-5.54	-930.42	-13995.40	0.08	10.00	-0.92	N/e	15.04
9.02	4	3 159.38	0.00	4.96	5.09	6.28	0.00	4.95	5.09	6.27	1572.79		17459.20	0.07	10.00	-0.75	N/e	11.10
10.82	1(T)	3 340.00	4.95	0.57	10.18	12.57	4.95	0.00	10.18	12.00	-959.81	-1338.03	-27807.60	0.12	10.00	-1.39	N/e	20.78
11.18	3(T)	4 35.00	4.95	0.72	5.09	12.57	4.95	0.00	5.09	11.84	-15.38	-1089.30	-13995.30	0.09	10.00	-0.93	N/e	12.85
13.51	1	4 268.80	0.00	5.14	5.09	6.28	0.00	4.95	5.09	6.09	3552.93		16963.40	0.07	10.00	-0.74	N/e	4.77
14.50	1(T)	4 367.56	0.00	5.45	5.09	6.28	0.00	4.95	5.09	5.78	2940.30	3552.93	16123.00	0.07	10.00	-0.72	N/e	4.54

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg <m>	CC	EI X <cm>	AfT I <cmq>	AfE I <cmq>	Tz ver. <kg>	AfTP I <cmq>	AfEP I <cmq>	σ_f inf <kg/cmq>
0.50	2	1 50.00	0.56	6.28		0.56	0.56	3739.13
1.69	2(T)	1 168.54	0.20	6.28	742.00	0.20	0.20	3739.13
3.83	7(T)	1 382.50	0.73	12.57	-2711.31	0.73	0.73	3739.13
4.17	5(T)	2 35.00	0.58	12.57	2166.84	0.58	0.58	3739.13
5.97	5(T)	2 214.88	4.97	6.28	89.28	0.02	0.02	3739.13
7.42	4(T)	2 360.00	0.45	12.57	-1671.71	0.45	0.45	3739.13
7.78	4(T)	3 35.00	5.33	12.57	1438.09	0.38	0.38	3739.13
9.02	5(T)	3 159.38	4.96	6.28	-47.91	0.01	0.01	3739.13
10.82	5(T)	3 340.00	0.57	12.57	-2134.13	0.57	0.57	3739.13
11.18	1(T)	4 35.00	5.67	12.57	2706.78	0.72	0.72	3739.13
13.51	8(T)	4 268.80	5.14	6.28	-722.60	0.19	0.19	3739.13
14.50	8(T)	4 367.56	5.45	6.28	-1863.23	0.50	0.50	3739.13

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
2	0.50	1.27	0.77	0.41		ø10/20 2 br.	7.85		0.25	2111.13	89289.90	13087.00	20219.20
7	1.27	3.06	1.79	0.35		ø10/30 2 br.	5.24		0.25	1827.73	89289.90	13087.00	13479.50
7	3.06	3.83	0.77	0.53		ø10/20 2 br.	7.85		0.25	2711.31	89289.90	13087.00	20219.20
5	4.17	4.94	0.77	0.42		ø10/20 2 br.	7.85		0.25	2166.84	89289.90	13087.00	20219.20
5	4.94	6.66	1.72	0.25		ø10/30 2 br.	5.24		0.25	1283.26	89289.90	13087.00	13479.50
4	6.66	7.42	0.77	0.32		ø10/20 2 br.	7.85		0.25	1671.71	89289.90	13087.00	20219.20
4	7.78	8.54	0.77	0.28		ø10/20 2 br.	7.85		0.25	1438.09	89289.90	13087.00	20219.20
5	8.54	10.06	1.52	0.24		ø10/30 2 br.	5.24		0.25	1250.55	89289.90	13087.00	13479.50
5	10.06	10.82	0.77	0.41		ø10/20 2 br.	7.85		0.25	2134.13	89289.90	13087.00	20219.20
1	11.18	11.94	0.77	0.53		ø10/20 2 br.	7.85		0.25	2706.78	89289.90	13087.00	20219.20
1	11.94	13.74	1.80	0.35		ø10/30 2 br.	5.24		0.25	1823.19	89289.90	13087.00	13479.50
8	13.74	14.50	0.77	0.36		ø10/20 2 br.	7.85		0.25	1863.23	89289.90	13087.00	20219.20

Travata n. 102 Nodi: -20 -21 110 -22**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	X <cm>	AfT S <cmq>	AfT I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
3.00	1(T)	2	101.51	1.80	0.44	2.26	2.26	1.80	0.00	2.26	1.82	-1173.21	-1334.76	-1668.00	0.15	10.00	-1.70	Mz/e	1.25
3.35	1(T)	3	35.00	1.44	0.29	2.26	2.26	1.44	0.00	2.26	1.98	-767.51	-877.76	-1669.20	0.15	10.00	-1.70	Mz/e	1.90

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg <m>	CC	El	X <cm>	AfT <cmq>	AfE <cmq>	Tz ver. <kg>	AfTP <cmq>	AfEP <cmq>	σ_{inf} <kg/cmq>
3.00	7(T)	2	101.51	0.44	2.26	-1646.38	0.44	0.44	3739.13
3.35	3(T)	3	35.00	0.29	2.26	1067.71	0.29	0.29	3739.13

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
7	0.00	2.80	2.80	1.11		ø8/15 2 br.	6.70		0.40	1531.80	38283.80	5611.17	4623.55
7	2.80	3.00	0.20	1.19		ø8/10 2 br.	10.05		0.40	1646.38	38283.80	5611.17	6935.33
3	3.35	3.56	0.20	0.77		ø8/10 2 br.	10.05		0.40	1067.71	38283.80	5908.84	6935.33
7	3.35	3.56	0.20	0.77		ø8/10 2 br.	10.05		0.40	1067.06	38283.80	5611.17	6935.33
3	3.56	7.00	3.44	0.70		ø8/15 2 br.	6.70		0.40	959.31	38283.80	6016.85	4623.55

Travata n. 103 Nodi: 131 132 133 134 135**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	X <cm>	AfT <cmq>	S <cmq>	AfT <cmq>	I <cmq>	AfE <cmq>	S <cmq>	AfE <cmq>	I <cmq>	AfTP <cmq>	S <cmq>	AfTP <cmq>	I <cmq>	AfEP <cmq>	S <cmq>	AfEP <cmq>	I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.50	1(T)	1	332.33	4.95	0.52	5.09	6.28	4.95	0.00	5.09	5.76	-1691.05	-1984.64	-13981.90	0.10	10.00	-1.13	N/e	7.05								
1.41	2(T)	1	241.69	4.95	0.24	5.09	6.28	4.95	0.00	5.09	6.04	-697.80	-1314.97	-13983.30	0.10	10.00	-1.11	N/e	10.63								
3.82	1(T)	1	0.00	4.95	0.75	10.18	12.57	4.95	0.00	10.18	11.82	-2552.30	-2751.75	-27804.70	0.12	10.00	-1.40	N/e	10.10								
4.17	1(T)	2	305.00	4.95	0.57	10.18	12.57	4.95	0.00	10.18	12.00	-1742.38	-1936.02	-27807.70	0.12	10.00	-1.39	N/e	14.36								

5.93	6(T)	2	129.63	0.00	4.97	5.09	6.28	0.00	4.95	5.09	6.26	939.79	993.65	17429.80	0.07	10.00	-0.75	N/e	17.54
7.22	1(T)	2	-0.00	4.95	0.40	10.18	12.57	4.95	0.00	10.18	12.16	-673.18	-930.42	-27810.30	0.12	10.00	-1.39	N/e	29.89
7.57	1(T)	3	325.00	4.95	0.43	5.09	12.57	4.95	0.00	5.09	12.13	-55.98	-1044.48	-13995.40	0.08	10.00	-0.93	N/e	13.40
8.97	8	3	185.63	0.00	4.96	5.09	6.28	0.00	4.95	5.09	6.27	1863.47		17458.70	0.07	10.00	-0.75	N/e	9.37
10.82	1(T)	3	0.00	4.95	0.59	10.18	12.57	4.95	0.00	10.18	11.98	-1082.11	-1282.81	-27807.30	0.12	10.00	-1.39	N/e	21.68
11.17	1(T)	4	382.56	4.95	0.72	5.09	12.57	4.95	0.00	5.09	11.85	-68.00	-1089.30	-13995.30	0.09	10.00	-0.93	N/e	12.85
13.51	1	4	148.76	0.00	5.21	5.09	6.28	0.00	4.95	5.09	6.02	3384.18		16774.60	0.07	10.00	-0.73	N/e	4.96
14.50	1(T)	4	50.00	0.00	5.52	5.09	6.28	0.00	4.95	5.09	5.72	2758.93	3384.18	15933.90	0.07	10.00	-0.71	N/e	4.71

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg	CC	EIX	AfT	I	AfE	I	Tz	ver.	AfTP	I	AfEP	I	σ_f inf
<m>		<cm>	<cmq>	<cmq>	<kg>				<cmq>	<cmq>	<kg/cmq>		
0.50	2	1	332.33	0.52	6.28				0.52	0.52	3739.13		
1.41	2(T)	1	241.69	0.24	6.28	-896.39	0.24	0.24	0.24	0.24	3739.13		
3.82	7(T)	1	0.00	0.75	12.57	2789.91	0.75	0.75	0.75	0.75	3739.13		
4.17	3(T)	2	305.00	0.57	12.57	-2113.45	0.57	0.57	0.57	0.57	3739.13		
5.93	3(T)	2	129.63	4.97	6.28	-87.87	0.02	0.02	0.02	0.02	3739.13		
7.22	6(T)	2	-0.00	0.40	12.57	1500.64	0.40	0.40	0.40	0.40	3739.13		
7.57	8(T)	3	325.00	5.38	12.57	-1614.13	0.43	0.43	0.43	0.43	3739.13		
8.97	1(T)	3	185.63	4.96	6.28	48.64	0.01	0.01	0.01	0.01	3739.13		
10.82	1(T)	3	0.00	0.59	12.57	2192.61	0.59	0.59	0.59	0.59	3739.13		
11.17	1(T)	4	382.56	0.72	12.57	-2695.16	0.72	0.72	0.72	0.72	3739.13		
13.51	8(T)	4	148.76	5.21	6.28	979.10	0.26	0.26	0.26	0.26	3739.13		
14.50	8(T)	4	50.00	0.57	6.28	2119.72	0.57	0.57	0.57	0.57	3739.13		

Staffe - Verifiche armatura esistente

CC	X0	X1	Lung.	AfT	St.	Staff.	AfE	St.	bw	Vsdu	Vrdu	Vcd	Vwd
	<m>	<m>	<m>	<cmq/m>			<cmq/m>		<m>	<kg>	<kg>	<kg>	<kg>
2	0.50	1.27	0.77	0.38		ø10/20 2 br.	7.85		0.25	1943.22	89289.90	13087.00	20219.20
7	1.27	3.06	1.79	0.37		ø10/30 2 br.	5.24		0.25	1906.33	89289.90	13087.00	13479.50
7	3.06	3.82	0.77	0.54		ø10/20 2 br.	7.85		0.25	2789.91	89289.90	13087.00	20219.20
3	4.17	4.94	0.77	0.41		ø10/20 2 br.	7.85		0.25	2113.45	89289.90	13087.00	20219.20
3	4.94	6.46	1.52	0.24		ø10/30 2 br.	5.24		0.25	1229.87	89289.90	13087.00	13479.50
6	6.46	7.22	0.77	0.29		ø10/20 2 br.	7.85		0.25	1500.64	89289.90	13087.00	20219.20
8	7.57	8.34	0.77	0.31		ø10/20 2 br.	7.85		0.25	1614.13	89289.90	13087.00	20219.20
1	8.34	10.06	1.72	0.25		ø10/30 2 br.	5.24		0.25	1309.02	89289.90	13087.00	13479.50
1	10.06	10.82	0.77	0.43		ø10/20 2 br.	7.85		0.25	2192.61	89289.90	13087.00	20219.20
1	11.17	11.94	0.77	0.52		ø10/20 2 br.	7.85		0.25	2695.16	89289.90	13087.00	20219.20
1	11.94	13.73	1.80	0.35		ø10/30 2 br.	5.24		0.25	1811.57	89289.90	13087.00	13479.50
8	13.73	14.50	0.77	0.41		ø10/20 2 br.	7.85		0.25	2119.72	89289.90	13087.00	20219.20

Travata n. 104 Nodi: 105 -20 113 120 126 -28 -31 135**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El X <cm>	AfT S <cmq>	AfT I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.25	1(T)	1 25.00	0.00	9.37	5.09	12.19	0.00	5.32	5.09	8.14	6585.60	15051.80	22583.20	0.08	10.00	-0.86	N/e	1.50
1.32	1	1 132.01	0.00	5.52	5.09	12.19	0.00	5.32	5.09	11.99	15051.80		33059.70	0.10	10.00	-1.07	N/e	2.20
3.10	1(T)	2 131.25	4.95	6.65	5.09	12.19	4.95	0.00	5.09	5.54	-8793.42	-11326.00	-13980.20	0.10	10.00	-1.14	N/e	1.23
3.45	1(T)	3 35.00	4.95	3.78	5.09	12.19	4.95	0.00	5.09	8.41	-3022.05	-7477.95	-13991.90	0.09	10.00	-1.03	N/e	1.87
4.68	1(T)	3 157.38	0.00	5.71	5.09	9.05	0.00	4.95	5.09	8.29	4231.23	5159.64	23003.00	0.08	10.00	-0.87	N/e	4.46
5.90	1(T)	3 279.75	4.95	5.25	11.37	9.05	4.95	0.00	11.37	3.80	-9909.07	-11888.00	-30567.70	0.17	10.00	-2.12	N/e	2.57
6.25	1(T)	4 35.00	4.95	4.10	6.28	18.10	4.95	0.00	6.28	13.99	-3706.62	-9384.51	-17252.40	0.09	10.00	-0.99	N/e	1.84
7.65	1(T)	4 174.88	0.00	5.96	6.28	9.05	0.00	4.95	6.28	8.04	4802.28	6661.67	22314.40	0.08	10.00	-0.84	N/e	3.35
9.05	1(T)	4 314.75	6.01	6.08	11.37	12.19	6.01	0.00	11.37	6.11	-14190.00	-16415.00	-30787.50	0.16	10.00	-1.88	N/e	1.88
9.40	1(T)	5 35.00	4.95	6.42	11.37	12.19	4.95	0.00	11.37	5.77	-5230.05	-9867.21	-30763.90	0.16	10.00	-1.91	N/e	3.12
11.01	5	6 24.83	0.00	6.24	5.09	12.19	0.00	6.05	5.09	12.00	17090.70		33108.30	0.10	10.00	-1.07	N/e	1.94
12.25	5(T)	7 43.95	0.00	11.04	5.09	12.19	0.00	6.05	5.09	7.20	4834.00	17090.70	20002.10	0.07	10.00	-0.81	N/e	1.17

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg <m>	CC	El X <cm>	AfT I <cmq>	AfE I <cmq>	Tz ver. <kg>	AfTP I <cmq>	AfEP I <cmq>	σ_{inf} <kg/cmq>
0.25	5(T)	1 25.00	9.13	12.19	15147.60	4.05	4.05	3739.13
1.32	5(T)	1 132.01	5.15	12.19	763.90	0.20	0.20	3739.13
3.10	3(T)	2 131.25	6.65	12.19	-24857.10	6.65	6.65	3739.13
3.45	7(T)	3 35.00	3.78	12.19	14123.70	3.78	3.78	3739.13
4.68	1(T)	3 157.38	5.71	9.05	-2827.53	0.76	0.76	3739.13
5.90	1(T)	3 279.75	5.25	9.05	-19640.10	5.25	5.25	3739.13
6.25	7(T)	4 35.00	4.10	18.10	15334.70	4.10	4.10	3739.13
7.65	1(T)	4 174.88	5.96	9.05	-3765.16	1.01	1.01	3739.13
9.05	1(T)	4 314.75	6.08	12.19	-22748.80	6.08	6.08	3739.13
9.40	7(T)	5 35.00	6.42	12.19	23991.90	6.42	6.42	3739.13
11.01	1(T)	6 24.83	5.84	12.19	-696.88	0.19	0.19	3739.13
12.25	1(T)	7 43.95	10.30	12.19	-18671.00	4.99	4.99	3739.13

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT St. <cmq/m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
5	0.25	1.02	0.77	2.94	ø10/20 2 br.	7.85	0.25	15147.60	89289.90	13087.00	20219.20
3	1.02	2.34	1.32	2.77	ø10/30 2 br.	5.24	0.25	14240.00	89289.90	13087.00	13479.50
3	2.34	3.10	0.77	4.83	ø10/20 2 br.	7.85	0.25	24857.10	89289.90	13087.00	20219.20
7	3.45	4.22	0.77	2.74	ø8/20 2 br.	5.03	0.25	14123.70	89289.90	13087.00	12940.30
1	4.22	5.13	0.92	1.78	ø8/25 2 br.	4.02	0.25	9139.51	89289.90	13087.00	10352.20
1	5.13	5.90	0.77	3.81	ø8/20 2 br.	5.03	0.25	19640.10	89289.90	13087.00	12940.30
7	6.25	7.02	0.77	2.98	ø10/20 2 br.	7.85	0.25	15334.70	89289.90	13087.00	20219.20
1	7.02	8.28	1.27	2.40	ø10/30 2 br.	5.24	0.25	12379.50	89289.90	13087.00	13479.50
1	8.28	9.05	0.77	4.42	ø10/20 2 br.	7.85	0.25	22748.80	89289.90	13087.00	20219.20
7	9.40	10.16	0.77	4.66	ø10/20 2 br.	7.85	0.25	23991.90	89289.90	13087.00	20219.20
7	10.16	11.48	1.32	2.65	ø10/30 2 br.	5.24	0.25	13669.20	89289.90	13087.00	13479.50

1 11.48 12.25 0.77 3.63 ø10/20 2 br. 7.85 0.25 18671.00 89289.90 13087.00 20219.20

Travata n. 107 Nodi: 101 112 119 125 131

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente

Xg <m>	CC	El X <cm>	Aft S <cmq>	Aft I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ε _y	ε _c	TS	Sic.
0.25	1(T)	1 285.22	0.00	9.07	5.09	12.19	0.00	5.07	5.09	8.20	6042.20	14360.60	22744.80	0.08	10.00	-0.86	N/e	1.58
1.32	1(T)	1 178.39	0.00	5.23	5.09	12.19	0.00	5.07	5.09	12.04	14324.00	14360.60	33201.60	0.10	10.00	-1.08	N/e	2.31
3.10	1(T)	1 -0.00	4.95	6.45	5.09	12.19	4.95	0.00	5.09	5.74	-8600.12	-10730.60	-13981.80	0.10	10.00	-1.13	N/e	1.30
3.45	1(T)	2 244.75	4.95	3.54	5.09	12.19	4.95	0.00	5.09	8.65	-3153.19	-7292.62	-13992.40	0.09	10.00	-1.02	N/e	1.92
4.68	1(T)	2 122.38	0.00	5.82	5.09	9.05	0.00	4.95	5.09	8.18	3244.76	5031.77	22703.30	0.08	10.00	-0.86	N/e	4.51
5.90	1(T)	2 0.00	4.95	5.26	10.18	9.05	4.95	0.00	10.18	3.78	-11074.30	-12899.50	-27468.70	0.16	10.00	-1.95	N/e	2.13
6.25	1(T)	3 279.75	4.95	4.34	5.09	18.10	4.95	0.00	5.09	13.75	-4574.33	-9260.85	-13995.50	0.08	10.00	-0.89	N/e	1.51
7.65	1(T)	3 139.88	0.00	5.64	5.09	9.05	0.00	4.95	5.09	8.36	5461.47	6573.89	23184.40	0.08	10.00	-0.87	N/e	3.53
9.05	1(T)	3 0.00	5.00	5.72	10.18	12.19	5.00	0.00	10.18	6.47	-11791.30	-13764.80	-27652.40	0.15	10.00	-1.70	N/e	2.01
9.40	1(T)	4 310.25	4.95	5.80	5.09	12.19	4.95	0.00	5.09	6.39	-3570.43	-9591.45	-13984.90	0.10	10.00	-1.10	N/e	1.46
11.01	5(T)	4 148.89	0.00	5.71	5.09	12.19	0.00	5.55	5.09	12.03	15647.00	15696.80	33180.20	0.10	10.00	-1.08	N/e	2.11
12.25	5(T)	4 25.00	0.00	10.16	5.09	12.19	0.00	5.55	5.09	7.58	4311.24	15696.80	21044.90	0.08	10.00	-0.83	N/e	1.34

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg <m>	CC	El X <cm>	Aft I <cmq>	AfE I <cmq>	Tz ver. <kg>	AfTP I <cmq>	AfEP I <cmq>	σ _t inf <kg/cmq>
0.25	7(T)	1 285.22	9.01	12.19	-14926.90	3.99	3.99	3739.13
1.32	7(T)	1 178.39	5.10	12.19	-568.01	0.15	0.15	3739.13
3.10	1(T)	1 -0.00	6.45	12.19	24108.70	6.45	6.45	3739.13
3.45	5(T)	2 244.75	3.54	12.19	-13246.60	3.54	3.54	3739.13
4.68	3(T)	2 122.38	5.82	9.05	3236.75	0.87	0.87	3739.13
5.90	3(T)	2 0.00	5.26	9.05	19683.90	5.26	5.26	3739.13
6.25	7(T)	3 279.75	4.34	18.10	-16238.70	4.34	4.34	3739.13
7.65	1(T)	3 139.88	5.64	9.05	2579.77	0.69	0.69	3739.13
9.05	1(T)	3 0.00	5.72	12.19	21379.00	5.72	5.72	3739.13
9.40	5(T)	4 310.25	5.80	12.19	-21694.10	5.80	5.80	3739.13
11.01	3(T)	4 148.89	5.39	12.19	597.58	0.16	0.16	3739.13
12.25	3(T)	4 25.00	9.60	12.19	17248.30	4.61	4.61	3739.13

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Aft St. <cmq/m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
7	0.25	1.02	0.77	2.90	ø10/20 2 br.	7.85	0.25	14926.90	89289.90	13087.00	20219.20
1	1.02	2.34	1.32	2.69	ø10/30 2 br.	5.24	0.25	13826.80	89289.90	13087.00	13479.50
1	2.34	3.10	0.77	4.68	ø10/20 2 br.	7.85	0.25	24108.60	89289.90	13087.00	20219.20
5	3.45	4.22	0.77	2.57	ø8/20 2 br.	5.03	0.25	13246.60	89289.90	13087.00	12940.30
3	4.22	5.13	0.92	1.83	ø8/25 2 br.	4.02	0.25	9402.17	89289.90	13087.00	10352.20
3	5.13	5.90	0.77	3.82	ø8/20 2 br.	5.03	0.25	19683.90	89289.90	13087.00	12940.30
7	6.25	7.02	0.77	3.15	ø10/20 2 br.	7.85	0.25	16238.70	89289.90	13087.00	20219.20
1	7.02	8.28	1.27	2.16	ø10/30 2 br.	5.24	0.25	11097.30	89289.90	13087.00	13479.50
1	8.28	9.05	0.77	4.15	ø10/20 2 br.	7.85	0.25	21379.00	89289.90	13087.00	20219.20

5	9.40	10.16	0.77	4.21	ø10/20 2 br.	7.85	0.25	21694.10	89289.90	13087.00	20219.20
5	10.16	11.48	1.32	2.22	ø10/30 2 br.	5.24	0.25	11412.40	89289.90	13087.00	13479.50
3	11.48	12.25	0.77	3.35	ø10/20 2 br.	7.85	0.25	17248.30	89289.90	13087.00	20219.20

Travata n. 108 Nodi: -21 115 121 123 -28**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	X <cm>	Aft <cmq>	S <cmq>	Aft <cmq>	I <cmq>	AfE <cmq>	S <cmq>	AfE <cmq>	I <cmq>	AfTP <cmq>	S <cmq>	AfTP <cmq>	I <cmq>	AfEP <cmq>	S <cmq>	AfEP <cmq>	I <cmq>	My <kgm>	My <kgm>	ver. <kgm>	Myu <kgm>	x/d	ε _y	ε _c	TS	Sic.
1.66	1(T)	1	0.01	2.24	0.75	3.08	2.26	2.24	0.00	3.08	1.51	-1453.11	-1649.01	-2219.87	0.16	10.00	-1.96	Mz/e	1.35									
1.91	1(T)	2	245.00	1.44	0.63	3.08	2.26	1.44	0.00	3.08	1.63	-798.42	-991.31	-2220.01	0.16	10.00	-1.97	Mz/e	2.24									
3.14	1c	2	122.51	0.00	1.45	3.08	2.26	0.00	1.44	3.08	2.25	730.25		1666.22	0.15	10.00	-1.75	Mz/e	2.28									
4.36	1(T)	2	0.01	1.44	0.64	3.08	2.26	1.44	0.00	3.08	1.62	-890.32	-1040.78	-2220.05	0.16	10.00	-1.97	Mz/e	2.13									
4.61	1(T)	3	172.14	1.44	0.27	3.08	2.26	1.44	0.00	3.08	1.99	-576.46	-647.78	-2220.70	0.16	10.00	-1.97	Mz/e	3.43									
5.47	7(T)	3	86.08	1.44	0.15	3.08	2.26	1.44	0.00	3.08	2.11	-387.07	-491.52	-2221.01	0.16	10.00	-1.97	Mz/e	4.52									
6.33	1(T)	3	0.01	2.27	0.56	5.34	4.52	2.27	0.00	5.34	3.96	-1512.88	-1674.51	-3699.63	0.21	10.00	-2.58	Mz/e	2.21									
6.58	1(T)	4	260.79	1.44	0.67	5.34	4.52	1.44	0.00	5.34	3.85	-836.32	-1018.02	-3699.40	0.21	10.00	-2.59	Mz/e	3.63									

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg <m>	CC	El X <cm>	Aft I <cmq>	AfE I <cmq>	Tz ver. <kg>	AfTP I <cmq>	AfEP I <cmq>	σ _f inf <kg/cmq>
1.66	3(T)	1	0.01	0.75	2218.96	0.75	0.75	3739.13
1.91	7(T)	2	245.00	0.63	-2374.02	0.63	0.63	3739.13
3.14	1(T)	2	122.51	1.45	51.82	0.01	0.01	3739.13
4.36	1(T)	2	0.01	0.64	2384.76	0.64	0.64	3739.13
4.61	1(T)	3	172.14	0.27	-1024.31	0.27	0.27	3739.13
5.47	7(T)	3	86.08	0.15	566.14	0.15	0.15	3739.13
6.33	7(T)	3	0.01	0.56	2099.18	0.56	0.56	3739.13
6.58	7(T)	4	260.79	0.67	-2514.71	0.67	0.67	3739.13

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Aft St. <cmq/m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
3	0.00	1.46	1.46	1.74	ø8/15 2 br.	6.70	0.40	2402.84	38283.80	5888.87	4623.55
3	1.46	1.66	0.20	2.04	ø8/10 2 br.	10.05	0.40	2818.96	38283.80	5787.33	6935.33
7	1.46	1.66	0.20	2.04	ø8/10 2 br.	10.05	0.40	2815.63	38283.80	5611.17	6935.33
7	1.91	2.12	0.20	1.72	ø8/10 2 br.	10.05	0.40	2374.02	38283.80	5611.17	6935.33
1	2.12	4.16	2.04	1.45	ø8/15 2 br.	6.70	0.40	2000.31	38283.80	6117.78	4623.55
1	4.16	4.36	0.20	1.73	ø8/10 2 br.	10.05	0.40	2384.76	38283.80	5861.99	6935.33
5	4.16	4.36	0.20	1.73	ø8/10 2 br.	10.05	0.40	2382.83	38283.80	5611.17	6935.33
1	4.61	4.82	0.20	0.74	ø8/10 2 br.	10.05	0.40	1024.31	38283.80	5998.56	6935.33
5	4.61	4.82	0.20	0.74	ø8/10 2 br.	10.05	0.40	1013.75	38283.80	5611.17	6935.33
7	4.82	6.13	1.31	1.26	ø8/15 2 br.	6.70	0.40	1737.84	38283.80	5611.17	4623.55
7	6.13	6.33	0.20	1.52	ø8/10 2 br.	10.05	0.40	2099.18	38283.80	5611.17	6935.33
7	6.58	6.79	0.20	1.82	ø8/10 2 br.	10.05	0.40	2514.71	38283.80	5611.17	6935.33
7	6.79	9.19	2.40	1.56	ø8/15 2 br.	6.70	0.40	2158.71	38283.80	5611.17	4623.55

Travata n. 111 Nodi: 106 108 -22 118 122 127 -33**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El X <cm>	AfT S <cmq>	AfT I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.25	1(T)	1 25.00	0.00	2.36	5.09	5.09	0.00	1.93	5.09	4.66	1109.19	1402.94	3156.66	0.22	10.00	-2.78	Mz/e	2.25
1.55	1(T)	1 154.99	1.93	0.50	5.09	7.35	1.93	0.00	5.09	6.85	-1238.71	-1403.58	-3427.28	0.22	10.00	-2.74	Mz/e	2.44
1.90	7(T)	2 35.00	1.49	0.64	5.09	7.35	1.49	0.00	5.09	6.72	-672.76	-1111.68	-3531.02	0.19	10.00	-2.40	Mz/e	3.18
3.23	1(T)	3 152.79	0.00	1.48	5.09	2.26	0.00	1.44	5.09	2.23	1016.21	1017.25	1659.61	0.15	10.00	-1.81	Mz/e	1.63
5.24	1(T)	3 354.29	3.79	0.86	8.17	2.26	3.79	0.00	8.17	1.40	-2307.58	-2714.10	-5441.63	0.30	8.23	-3.50	Mz/e	2.00
5.74	4(T)	4 50.00	0.00	1.66	8.17	2.26	0.00	1.44	8.17	2.05	177.61	326.06	1549.46	0.16	10.00	-1.84	Mz/e	4.75
7.02	1(T)	4 177.99	1.61	0.50	3.08	4.52	1.61	0.00	3.08	4.02	-942.24	-1200.45	-2222.51	0.17	10.00	-1.99	Mz/e	1.85
7.52	7(T)	5 50.00	1.86	0.68	3.08	4.52	1.86	0.00	3.08	3.84	-908.49	-1377.03	-2222.79	0.17	10.00	-1.99	Mz/e	1.61
9.11	5(T)	5 208.82	0.00	1.71	3.08	2.26	0.00	1.65	3.08	2.20	1226.57	1226.88	1634.48	0.15	10.00	-1.74	Mz/e	1.33
10.75	1(T)	5 372.74	2.28	0.76	6.16	2.26	2.28	0.00	6.16	1.50	-1496.96	-1680.84	-4220.63	0.24	10.00	-3.12	Mz/e	2.51
11.00	5(T)	6 0.00	3.04	0.97	6.16	2.26	3.04	0.00	6.16	1.30	-1946.58	-2209.65	-4218.96	0.24	10.00	-3.16	Mz/e	1.91

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg <m>	CC	El X <cm>	AfT I <cmq>	AfE I <cmq>	Tz ver. <kg>	AfTP I <cmq>	AfEP I <cmq>	$\sigma_{t,inf}$ <kg/cmq>
0.25	1(T)	1 25.00	2.36	5.09	-1592.17	0.43	0.43	3739.13
1.55	1(T)	1 154.99	0.50	7.35	-1865.15	0.50	0.50	3739.13
1.90	5(T)	2 35.00	0.64	7.35	2379.01	0.64	0.64	3739.13
3.23	7(T)	3 152.79	1.48	2.26	136.51	0.04	0.04	3739.13
5.24	1(T)	3 354.29	0.86	2.26	-3209.03	0.86	0.86	3739.13
5.74	7(T)	4 50.00	0.22	2.26	804.60	0.22	0.22	3739.13
7.02	1(T)	4 177.99	0.50	4.52	-1865.91	0.50	0.50	3739.13
7.52	7(T)	5 50.00	0.68	4.52	2539.48	0.68	0.68	3739.13
9.11	1(T)	5 208.82	1.62	2.26	-229.17	0.06	0.06	3739.13
10.75	1(T)	5 372.74	0.76	2.26	-2840.72	0.76	0.76	3739.13
11.00	7(T)	6 0.00	0.97	2.26	3610.74	0.97	0.97	3739.13

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT St. <cmq/m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
1	0.25	0.46	0.20	1.19	ø8/15 2 br.	6.70	0.25	1635.22	23927.30	3506.98	4623.55
1	0.46	1.34	0.89	1.32	ø8/15 2 br.	6.70	0.25	1822.10	23927.30	3506.98	4623.55
1	1.34	1.55	0.20	1.35	ø8/10 2 br.	10.05	0.25	1865.15	23927.30	3506.98	6935.33
5	1.90	2.11	0.20	1.70	ø8/10 2 br.	10.05	0.40	2345.32	38283.80	5872.96	6935.33
1	2.11	5.04	2.93	2.09	ø8/15 2 br.	6.70	0.40	2882.42	38283.80	5646.25	4623.55
1	5.04	5.24	0.20	2.33	ø8/10 2 br.	10.05	0.40	3209.03	38283.80	5636.76	6935.33
7	5.74	5.95	0.20	0.58	ø8/10 2 br.	10.05	0.40	804.60	38283.80	10454.00	6935.33
1	5.95	6.82	0.87	1.12	ø8/15 2 br.	6.70	0.40	1539.29	38283.80	6473.08	4623.55
1	6.82	7.02	0.20	1.35	ø8/10 2 br.	10.05	0.40	1865.90	38283.80	6153.80	6935.33

7	7.52	7.73	0.20	1.84	ø8/10 2 br.	10.05	0.40	2539.48	38283.80	5611.17	6935.33
1	7.73	10.54	2.82	1.82	ø8/15 2 br.	6.70	0.40	2513.79	38283.80	5646.49	4623.55
1	10.54	10.75	0.20	2.06	ø8/10 2 br.	10.05	0.40	2840.40	38283.80	5633.54	6935.33
7	11.00	11.21	0.20	2.62	ø8/10 2 br.	10.05	0.40	3610.74	38283.80	5611.17	6935.33
7	11.21	13.00	1.79	2.26	ø8/15 2 br.	6.70	0.40	3124.40	38283.80	5611.17	4623.55

Travata n. 118 Nodi: -29 138**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El X <cm>	AfT S <cmq>	AfT I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.	
1.75	2(T)	1	25.01	0.00	1.88	2.26	2.26	0.00	1.44	2.26	1.82	0.24	305.56	1370.17	0.14	10.00	-1.59	Mz/e	4.48

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg <m>	CC	El X <cm>	AfT I <cmq>	AfE I <cmq>	Tz ver. <kg>	AfTP I <cmq>	AfEP I <cmq>	σ_f inf <kg/cmq>	
1.75	1(T)	1	25.01	0.44	2.26	1654.81	0.44	0.44	3739.13

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
1	-0.00	1.54	1.54	1.03		ø8/15 2 br.	6.70		0.40	1425.52	38283.80	5669.27	4623.55
1	1.54	1.75	0.20	1.20		ø8/10 2 br.	10.05		0.40	1654.81	38283.80	5831.80	6935.33

Travata n. 119 Nodi: -31 136 -33 138**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	X <cm>	AfT S <cmq>	AfT I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
3.96	1(T)	1	395.61	1.52	0.26	4.52	4.52	1.52	0.00	4.52	4.27	-1026.10	-1134.95	-3169.68	0.19	10.00	-2.35	Mz/e	2.79
4.21	1(T)	2	25.00	1.44	0.53	4.52	4.52	1.44	0.00	4.52	3.99	-517.56	-700.40	-3170.27	0.19	10.00	-2.36	Mz/e	4.53
4.66	1	2	70.13	0.00	1.93	2.26	2.26	0.00	1.44	2.26	1.77	382.13		1336.31	0.14	10.00	-1.57	Mz/e	3.50
7.70	1(T)	3	304.00	1.44	0.18	2.26	2.26	1.44	0.00	2.26	2.08	-337.03	-354.54	-1669.50	0.15	10.00	-1.71	Mz/e	4.71

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg <m>	CC	El X <cm>	AfT I <cmq>	AfE I <cmq>	Tz ver. <kg>	AfTP I <cmq>	AfEP I <cmq>	σ_f inf <kg/cmq>	
3.96	3(T)	1	395.61	0.26	4.52	-959.23	0.26	0.26	3739.13
4.21	1(T)	2	25.00	0.53	4.52	1992.35	0.53	0.53	3739.13
4.66	1	2	70.13	1.93	2.26		0.49	0.49	3739.13
7.70	3	3	304.00	0.18	2.26		0.18	0.18	3739.13

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
3	0.00	3.75	3.75	0.65		ø8/15 2 br.	6.70		0.40	890.33	38283.80	5634.70	4623.55
3	3.75	3.96	0.20	0.70		ø8/10 2 br.	10.05		0.40	959.23	38283.80	5630.54	6935.33
1	4.21	4.41	0.20	1.44		ø8/10 2 br.	10.05		0.40	1992.35	38283.80	5611.17	6935.33

1	4.41	7.49	3.08	1.39	ø8/15 2 br.	6.70	0.40	1923.46	38283.80	5883.08	4623.55
3	7.49	7.70	0.20	0.49	ø8/10 2 br.	10.05	0.40	678.02	38283.80	5821.96	6935.33

Travata n. 120 Nodi: 127 -29 128**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	X <cm>	AfT S <cmq>	AfT I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.25	1(T)	1	25.00	2.41	0.40	2.26	2.26	2.41	0.00	2.26	1.86	-1591.85	-1769.75	-1667.89	0.15	10.00	-1.70	Mz/e	0.94
3.04	5	1	304.02	0.00	1.82	2.26	2.26	0.00	1.67	2.26	2.11	1241.05		1567.67	0.14	10.00	-1.67	Mz/e	1.26
3.60	5(T)	2	55.97	0.00	1.35	2.26	2.26	0.00	1.25	2.26	2.16	852.27	922.68	1544.91	0.17	10.00	-2.09	Mz/e	1.67

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg <m>	CC	El	X <cm>	AfT <cmq>	I <cmq>	AfE <cmq>	I <cmq>	Tz <kg>	ver.	AfTP <cmq>	I <cmq>	AfEP <cmq>	I <cmq>	σ_f inf <kg/cmq>
0.25	5	1	25.00	0.40		2.26				0.40		0.40		3739.13
3.04	5	1	304.02	1.82		2.26				0.15		0.15		3739.13
3.60	8(T)	2	55.97	1.00		2.26		-381.63		0.10		0.10		3739.13

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
5	0.60	0.81	0.20	1.01		ø8/10 2 br.	10.05		0.40	1390.01	38283.80	5611.17	6935.33
5	0.81	3.39	2.59	0.96		ø8/15 2 br.	6.70		0.40	1321.11	38283.80	5611.17	4623.55
8	3.39	3.60	0.20	0.28		ø8/10 2 br.	10.05		0.25	381.63	23927.30	3506.98	6935.33

Travata n. 205 Nodi: 206 207 209 211 214 216 217**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	X <cm>	AfT S <cmq>	AfT I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.25	1	1	25.01	4.20	1.00	5.09	6.28	4.20	0.00	5.09	5.28	-2044.05		-10212.30	0.12	10.00	-1.37	N/e	5.00
2.08	3	1	207.73	0.00	4.26	5.09	6.28	0.00	4.20	5.09	6.22	2036.47		12726.50	0.08	10.00	-0.89	N/e	6.25
3.60	4(T)	1	360.00	4.20	0.80	10.18	11.37	4.20	0.00	10.18	10.57	-505.48	-1974.65	-20251.50	0.15	10.00	-1.71	N/e	10.26
4.10	1(T)	2	50.01	0.00	4.81	10.18	11.37	0.00	4.20	10.18	10.76	1161.75	2329.35	21781.50	0.10	10.00	-1.13	N/e	9.35
5.27	1	2	166.81	0.00	4.22	5.09	5.09	0.00	4.20	5.09	5.07	2601.03		10405.50	0.07	10.00	-0.81	N/e	4.00
7.00	1(T)	2	340.00	4.20	0.89	10.18	10.18	4.20	0.00	10.18	9.29	-526.03	-1534.13	-20231.20	0.15	10.00	-1.79	N/e	13.19
7.50	1a	3	50.01	4.20	0.63	5.09	10.18	4.20	0.00	5.09	9.54	-1236.41		-10215.20	0.11	10.00	-1.18	N/e	8.26
8.73	3	3	172.81	0.00	4.20	5.09	5.09	0.00	4.20	5.09	5.09	2622.65		10438.00	0.07	10.00	-0.81	N/e	3.98
10.50	1(T)	3	350.00	4.20	0.91	10.18	10.18	4.20	0.00	10.18	9.27	-642.78	-1627.22	-20230.90	0.15	10.00	-1.79	N/e	12.43
11.00	1a	4	50.01	4.20	0.68	5.09	10.18	4.20	0.00	5.09	9.50	-1236.40		-10215.30	0.11	10.00	-1.18	N/e	8.26
12.32	1	4	181.56	0.00	4.20	5.09	5.09	0.00	4.20	5.09	5.09	2806.80		10435.80	0.07	10.00	-0.81	N/e	3.72
14.00	1(T)	4	350.00	4.20	0.87	10.18	10.18	4.20	0.00	10.18	9.31	-160.30	-1627.21	-20231.70	0.15	10.00	-1.79	N/e	12.43
14.50	1(T)	5	50.01	0.00	4.84	5.09	10.18	0.00	4.20	5.09	9.54	1394.28	2611.08	19364.50	0.10	10.00	-1.13	N/e	7.42
15.74	1(T)	5	174.25	0.00	4.23	5.09	5.09	0.00	4.20	5.09	5.06	2996.25	2998.59	10388.00	0.07	10.00	-0.81	N/e	3.46
17.40	3(T)	5	340.00	0.00	5.07	10.18	11.37	0.00	4.20	10.18	10.51	97.07	1745.08	21277.80	0.10	10.00	-1.11	N/e	12.19
17.90	1a	6	50.01	4.20	0.69	5.09	11.37	4.20	0.00	5.09	10.69	-1524.84		-10214.60	0.10	10.00	-1.15	N/e	6.70
19.25	1(T)	6	184.50	0.00	4.29	5.09	6.28	0.00	4.20	5.09	6.20	3327.12	3433.13	12676.80	0.08	10.00	-0.89	N/e	3.69
21.25	1(T)	6	385.00	4.20	1.10	5.09	6.28	4.20	0.00	5.09	5.18	-1089.82	-1694.20	-10211.90	0.12	10.00	-1.37	N/e	6.03

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg <m>	CC	El X <cm>	AfT <cmq>	AfE <cmq>	Tz <kg>	ver.	AfTP <cmq>	AfEP <cmq>	$\sigma_{f,inf}$ <kg/cmq>
0.25	1	1	25.01	1.00	6.28		1.00	1.00	3739.13
2.08	1(T)	1	207.73	4.26	6.28	225.79	0.06	0.06	3739.13
3.60	7(T)	1	360.00	0.80	11.37	-2992.07	0.80	0.80	3739.13
4.10	7(T)	2	50.01	4.81	11.37	2296.17	0.61	0.61	3739.13
5.27	8(T)	2	166.81	4.22	5.09	69.93	0.02	0.02	3739.13
7.00	1(T)	2	340.00	0.89	10.18	-3333.92	0.89	0.89	3739.13
7.50	5(T)	3	50.01	4.83	10.18	2372.05	0.63	0.63	3739.13
8.73	5(T)	3	172.81	4.20	5.09	9.70	0.00	0.00	3739.13
10.50	3(T)	3	350.00	0.91	10.18	-3411.97	0.91	0.91	3739.13
11.00	5(T)	4	50.01	4.88	10.18	2544.47	0.68	0.68	3739.13
12.32	5(T)	4	181.56	4.20	5.09	13.80	0.00	0.00	3739.13
14.00	3(T)	4	350.00	0.87	10.18	-3241.23	0.87	0.87	3739.13
14.50	3(T)	5	50.01	4.84	10.18	2392.92	0.64	0.64	3739.13
15.74	6(T)	5	174.25	4.23	5.09	-102.23	0.03	0.03	3739.13
17.40	5(T)	5	340.00	0.87	11.37	-3240.92	0.87	0.87	3739.13
17.90	5(T)	6	50.01	4.89	11.37	2561.63	0.69	0.69	3739.13
19.25	3(T)	6	184.50	4.29	6.28	-318.11	0.09	0.09	3739.13
21.25	3	6	385.00	1.10	6.28		1.10	1.10	3739.13

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St.	Staff.	AfE <cmq/m>	St.	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
1	0.60	1.17	0.57	0.81		ø8/20 2 br.	5.03		0.25	3067.56	65946.10	9665.58	9557.22
1	1.17	3.04	1.87	0.52		ø8/30 2 br.	3.35		0.25	1980.62	65946.10	9665.58	6371.48
7	3.04	3.60	0.57	0.86		ø8/20 2 br.	5.03		0.25	3258.33	65946.10	9665.58	9557.22
7	4.10	4.67	0.57	0.60		ø8/20 2 br.	5.03		0.25	2296.17	65946.10	9665.58	9557.22
1	4.67	6.43	1.77	0.59		ø8/30 2 br.	3.35		0.25	2247.98	65946.10	9665.58	6371.48
1	6.43	7.00	0.57	0.88		ø8/20 2 br.	5.03		0.25	3333.92	65946.10	9665.58	9557.22
5	7.50	8.07	0.57	0.62		ø8/20 2 br.	5.03		0.25	2372.05	65946.10	9665.58	9557.22
3	8.07	9.93	1.87	0.61		ø8/30 2 br.	3.35		0.25	2326.02	65946.10	9665.58	6371.48
3	9.93	10.50	0.57	0.90		ø8/20 2 br.	5.03		0.25	3411.97	65946.10	9665.58	9557.22
5	11.00	11.57	0.56	0.67		ø8/20 2 br.	5.03		0.25	2544.47	65946.10	9665.58	9557.22
3	11.57	13.44	1.87	0.57		ø8/30 2 br.	3.35		0.25	2155.30	65946.10	9665.58	6371.48
3	13.44	14.00	0.56	0.85		ø8/20 2 br.	5.03		0.25	3241.23	65946.10	9665.58	9557.22
3	14.50	15.07	0.57	0.63		ø8/20 2 br.	5.03		0.25	2392.92	65946.10	9665.58	9557.22
5	15.07	16.84	1.77	0.57		ø8/30 2 br.	3.35		0.25	2154.98	65946.10	9665.58	6371.48
5	16.84	17.40	0.57	0.85		ø8/20 2 br.	5.03		0.25	3240.92	65946.10	9665.58	9557.22
5	17.90	18.47	0.57	0.67		ø8/20 2 br.	5.03		0.25	2561.63	65946.10	9665.58	9557.22
3	18.47	20.34	1.87	0.63		ø8/30 2 br.	3.35		0.25	2388.13	65946.10	9665.58	6371.48
3	20.34	20.90	0.56	0.91		ø8/20 2 br.	5.03		0.25	3456.32	65946.10	9665.58	9557.22

Travata n. 211 Nodi: 206 208 -38 218 222 -43 227**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	X <cm>	AfT <cmq>	S	AfT <cmq>	I	AfE <cmq>	S	AfE <cmq>	I	AfTP <cmq>	S	AfTP <cmq>	I	AfEP <cmq>	S	AfEP <cmq>	I	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.25	1(T)	1	130.00	0.00		4.70		5.09		6.28		0.00		4.20		5.09		5.78		1695.05	2643.24	11843.80	0.08	10.00	-0.86	N/e	4.48
1.55	1(T)	1	0.01	4.20		0.84		5.09		6.28		4.20		0.00		5.09		5.44		-1711.23	-2479.39	-10213.00	0.12	10.00	-1.36	N/e	4.12
1.90	1(T)	2	176.66	4.20		0.64		5.09		6.28		4.20		0.00		5.09		5.64		-869.07	-1541.85	-10213.40	0.12	10.00	-1.35	N/e	6.62
3.67	1(T)	2	-0.00	0.00		4.38		5.09		6.28		0.00		4.20		5.09		6.10		1703.20	1737.86	12485.60	0.08	10.00	-0.88	N/e	7.18
5.24	1(T)	3	0.01	4.20		1.24		10.18		11.37		4.20		0.00		10.18		10.13		-4531.20	-5125.53	-20245.00	0.15	10.00	-1.73	N/e	3.95
5.74	1(T)	4	128.00	4.20		0.37		5.09		11.37		4.20		0.00		5.09		11.00		-3711.50	-3901.29	-10214.40	0.10	10.00	-1.14	N/e	2.62
6.38	1(T)	4	64.01	4.20		0.21		5.09		5.09		4.20		0.00		5.09		4.88		-3019.28	-3145.10	-10210.50	0.12	10.00	-1.39	N/e	3.25
7.02	5(T)	4	0.01	4.20		0.12		5.09		5.09		4.20		0.00		5.09		4.97		-3112.36	-3145.10	-10211.00	0.12	10.00	-1.38	N/e	3.25
7.52	1(T)	5	-18.92	4.20		1.53		5.09		5.09		4.20		0.00		5.09		3.56		-488.23	-1612.47	-10203.10	0.13	10.00	-1.48	N/e	6.33
9.60	5(T)	6	139.79	0.00		4.32		5.09		5.09		0.00		4.20		5.09		4.97		1404.12	1406.40	10203.50	0.07	10.00	-0.80	N/e	7.26
10.75	5(T)	6	25.01	0.00		4.62		5.09		5.09		0.00		4.20		5.09		4.67		699.46	1406.40	9595.23	0.07	10.00	-0.78	N/e	6.82

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg <m>	CC	El	X <cm>	AfT <cmq>	I	AfE <cmq>	I	Tz ver. <kg>	AfTP <cmq>	I	AfEP <cmq>	I	$\sigma_{r inf}$ <kg/cmq>
0.25	1(T)	1	130.00	4.70		6.28		1864.68	0.50		0.50		3739.13
1.55	1(T)	1	0.01	0.84		6.28		3139.10	0.84		0.84		3739.13
1.90	5(T)	2	176.66	0.64		6.28		-2404.59	0.64		0.64		3739.13
3.67	5(T)	2	-0.00	4.38		6.28		-673.05	0.18		0.18		3739.13
5.24	3(T)	3	0.01	1.24		11.37		4634.01	1.24		1.24		3739.13
5.74	1(T)	4	128.00	0.37		11.37		-1395.35	0.37		0.37		3739.13
6.38	1(T)	4	64.01	0.21		5.09		-768.10	0.21		0.21		3739.13
7.02	8(T)	4	0.01	0.12		5.09		432.19	0.12		0.12		3739.13
7.52	5(T)	5	-18.92	1.53		5.09		-5724.43	1.53		1.53		3739.13
9.60	4(T)	6	139.79	4.32		5.09		443.42	0.12		0.12		3739.13
10.75	4(T)	6	25.01	0.42		5.09		1568.32	0.42		0.42		3739.13

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St.	Staff.	AfE <cmq/m>	St.	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
1	0.25	1.55	1.30	0.83		ø8/20 2 br.	5.03		0.25	3139.10	65946.10	9665.58	9557.22
5	1.90	2.47	0.57	0.63		ø8/20 2 br.	5.03		0.25	2404.59	65946.10	9665.58	9557.22
3	2.47	4.68	2.21	1.07		ø8/30 2 br.	3.35		0.25	4080.11	65946.10	9665.58	6371.48
3	4.68	5.24	0.57	1.22		ø8/20 2 br.	5.03		0.25	4634.01	65946.10	9665.58	9557.22
1	5.74	7.02	1.28	0.37		ø8/20 2 br.	5.03		0.25	1395.35	65946.10	9665.58	9557.22
5	7.52	8.09	0.57	1.48		ø8/20 2 br.	5.03		0.25	5631.74	65946.10	9665.58	9557.22
5	8.09	10.18	2.10	0.39		ø8/30 2 br.	3.35		0.25	1489.14	65946.10	9665.58	6371.48
4	10.18	10.75	0.57	0.41		ø8/20 2 br.	5.03		0.25	1568.12	65946.10	9665.58	9557.22

Travata n. 217 Nodi: 217 224 229 241**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El X <cm>	AfT S <cmq>	AfT I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.25	3(T)	1 25.01	0.00	4.36	5.09	6.28	0.00	4.20	5.09	6.12	2912.34	3216.89	12525.60	0.08	10.00	-0.89	N/e	3.89
3.50	1(T)	1 350.25	4.20	0.95	10.18	11.37	4.20	0.00	10.18	10.43	-3630.93	-4144.61	-20249.40	0.15	10.00	-1.72	N/e	4.89
4.00	1(T)	2 50.01	4.20	0.35	10.18	11.37	4.20	0.00	10.18	11.03	-2871.32	-3101.69	-20256.50	0.14	10.00	-1.68	N/e	6.53
5.51	7(T)	2 201.01	4.20	0.10	5.09	5.09	4.20	0.00	5.09	4.99	-2188.36	-2383.39	-10211.00	0.12	10.00	-1.38	N/e	4.28
7.02	1(T)	2 352.00	4.20	0.50	10.18	10.18	4.20	0.00	10.18	9.68	-3492.96	-4133.42	-20237.80	0.15	10.00	-1.76	N/e	4.90
7.52	1(T)	3 50.01	4.20	0.71	5.09	10.18	4.20	0.00	5.09	9.47	-2349.96	-2781.59	-10215.30	0.11	10.00	-1.19	N/e	3.67
10.23	5(T)	3 320.69	0.00	4.44	5.09	5.09	0.00	4.20	5.09	4.85	1277.74	1282.92	9967.71	0.07	10.00	-0.79	N/e	7.77
10.75	5(T)	3 372.75	0.00	4.57	5.09	5.09	0.00	4.20	5.09	4.72	1122.54	1282.92	9691.71	0.07	10.00	-0.78	N/e	7.55

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg <m>	CC	El X <cm>	AfT I <cmq>	AfE I <cmq>	Tz ver. <kg>	AfTP I <cmq>	AfEP I <cmq>	σ_{tinf} <kg/cmq>
0.25	6(T)	1 25.01	4.36	6.28	598.93	0.16	0.16	3739.13
3.50	3(T)	1 350.25	0.95	11.37	-3541.75	0.95	0.95	3739.13
4.00	2(T)	2 50.01	0.35	11.37	1292.81	0.35	0.35	3739.13
5.51	7(T)	2 201.01	0.10	5.09	-383.53	0.10	0.10	3739.13
7.02	7(T)	2 352.00	0.50	10.18	-1863.88	0.50	0.50	3739.13
7.52	7(T)	3 50.01	0.71	10.18	2656.74	0.71	0.71	3739.13
10.23	2(T)	3 320.69	0.24	5.09	-879.51	0.24	0.24	3739.13
10.75	2	3 372.75	0.37	5.09		0.37	0.37	3739.13

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
3	0.25	0.82	0.57	0.24		ø8/20 2 br.	5.03		0.25	907.49	65946.10	9665.58	9557.22
3	0.82	2.94	2.12	0.79		ø8/30 2 br.	3.35		0.25	2987.78	65946.10	9665.58	6371.48
3	2.94	3.50	0.57	0.93		ø8/20 2 br.	5.03		0.25	3541.75	65946.10	9665.58	9557.22
2	4.00	4.57	0.57	0.34		ø8/20 2 br.	5.03		0.25	1292.81	65946.10	9665.58	9557.22
7	4.57	6.46	1.89	0.34		ø8/30 2 br.	3.35		0.25	1309.90	65946.10	9665.58	6371.48
7	6.46	7.02	0.57	0.49		ø8/20 2 br.	5.03		0.25	1863.88	65946.10	9665.58	9557.22
7	7.52	8.09	0.57	0.70		ø8/20 2 br.	5.03		0.25	2656.74	65946.10	9665.58	9557.22
7	8.09	10.19	2.10	0.55		ø8/30 2 br.	3.35		0.25	2102.97	65946.10	9665.58	6371.48
2	10.19	10.75	0.57	0.37		ø8/20 2 br.	5.03		0.25	1389.89	65946.10	9665.58	9557.22

Travata n. 220 Nodi: 227 228 230 237 239 240 241**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El X <cm>	AfT S <cmq>	AfT I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.25	1(T)	1 335.00	4.20	0.90	5.09	6.28	4.20	0.00	5.09	5.38	-1942.78	-2139.36	-10212.80	0.12	10.00	-1.36	N/e	4.77
1.92	3(T)	1 167.51	0.00	4.27	5.09	6.28	0.00	4.20	5.09	6.21	1270.40	1349.03	12701.80	0.08	10.00	-0.89	N/e	9.42
3.60	1(T)	1 0.01	4.20	0.91	10.18	6.28	4.20	0.00	10.18	5.37	-1794.34	-2281.59	-20107.30	0.18	10.00	-2.14	N/e	8.81
4.10	1(T)	2 290.00	4.20	0.72	10.18	11.37	4.20	0.00	10.18	10.65	-213.09	-1534.13	-20252.40	0.15	10.00	-1.70	N/e	13.20
5.48	5	2 151.94	0.00	4.21	5.09	5.09	0.00	4.20	5.09	5.08	1891.64		10416.60	0.07	10.00	-0.81	N/e	5.51

7.00	1(T)	2	0.01	4.20	0.78	10.18	5.09	4.20	0.00	10.18	4.31	-521.67	-1534.13	-20040.50	0.19	10.00	-2.28	N/e	13.06
7.50	7(T)	3	300.00	0.00	4.86	5.09	5.09	0.00	4.20	5.09	4.43	1083.89	2334.53	9113.26	0.07	10.00	-0.76	N/e	3.90
8.77	7	3	172.81	0.00	4.20	5.09	5.09	0.00	4.20	5.09	5.09	2799.43		10436.40	0.07	10.00	-0.81	N/e	3.73
10.50	1(T)	3	0.01	4.20	0.89	10.18	10.18	4.20	0.00	10.18	9.29	-356.30	-1627.20	-20231.30	0.15	10.00	-1.79	N/e	12.43
11.00	5(T)	4	300.00	0.00	4.87	5.09	5.09	0.00	4.20	5.09	4.42	1293.73	2573.85	9081.92	0.07	10.00	-0.76	N/e	3.53
12.30	5	4	169.53	0.00	4.20	5.09	5.09	0.00	4.20	5.09	5.08	3105.58		10434.40	0.07	10.00	-0.81	N/e	3.36
14.00	5(T)	4	0.01	0.00	5.08	10.18	10.18	0.00	4.20	10.18	9.30	79.13	1744.54	18879.50	0.09	10.00	-1.04	N/e	10.82
14.50	5(T)	5	290.00	0.00	4.82	5.09	10.18	0.00	4.20	5.09	9.56	1596.23	2769.65	19410.00	0.10	10.00	-1.13	N/e	7.01
15.69	5	5	171.06	0.00	4.22	5.09	5.09	0.00	4.20	5.09	5.07	3085.18		10404.80	0.07	10.00	-0.81	N/e	3.37
17.40	7(T)	5	0.01	0.00	5.08	10.18	10.18	0.00	4.20	10.18	9.29	23.69	1705.90	18861.80	0.09	10.00	-1.04	N/e	11.06
17.90	5(T)	6	360.00	0.00	4.89	5.09	10.18	0.00	4.20	5.09	9.48	1669.67	2989.42	19256.40	0.10	10.00	-1.12	N/e	6.44
19.23	5	6	226.78	0.00	4.25	5.09	5.09	0.00	4.20	5.09	5.04	3574.73		10342.20	0.07	10.00	-0.81	N/e	2.89
21.25	1(T)	6	25.01	4.20	1.11	5.09	5.09	4.20	0.00	5.09	3.98	-874.32	-1573.80	-10205.90	0.13	10.00	-1.45	N/e	6.48

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente a Taglio

Xg <m>	CC	El X <cm>	AfT <cmq>	I <cmq>	AfE <cmq>	I <cmq>	Tz <kg>	ver.	AfTP <cmq>	I <cmq>	AfEP <cmq>	I <cmq>	σ_f inf <kg/cmq>
0.25	5	1	335.00	0.90	6.28				0.90		0.90		3739.13
1.92	4(T)	1	167.51	4.27	6.28		271.76		0.07		0.07		3739.13
3.60	3(T)	1	0.01	0.91	6.28		3399.86		0.91		0.91		3739.13
4.10	3(T)	2	290.00	0.72	11.37		-2705.43		0.72		0.72		3739.13
5.48	3(T)	2	151.94	4.21	5.09		-49.42		0.01		0.01		3739.13
7.00	5(T)	2	0.01	0.78	5.09		2923.87		0.78		0.78		3739.13
7.50	5(T)	3	300.00	4.86	5.09		-2459.47		0.66		0.66		3739.13
8.77	5(T)	3	172.81	4.20	5.09		-12.69		0.00		0.00		3739.13
10.50	3(T)	3	0.01	0.89	10.18		3327.19		0.89		0.89		3739.13
11.00	5(T)	4	300.00	4.87	5.09		-2517.43		0.67		0.67		3739.13
12.30	4(T)	4	169.53	4.20	5.09		16.48		0.00		0.00		3739.13
14.00	3(T)	4	0.01	0.88	10.18		3275.15		0.88		0.88		3739.13
14.50	7(T)	5	290.00	4.82	10.18		-2307.61		0.62		0.62		3739.13
15.69	2(T)	5	171.06	4.22	5.09		71.15		0.02		0.02		3739.13
17.40	1(T)	5	0.01	0.88	10.18		3308.19		0.88		0.88		3739.13
17.90	1(T)	6	360.00	4.89	10.18		-2595.38		0.69		0.69		3739.13
19.23	2(T)	6	226.78	4.25	5.09		-186.91		0.05		0.05		3739.13
21.25	7(T)	6	25.01	1.11	5.09		4155.71		1.11		1.11		3739.13

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
5	0.60	1.17	0.57	0.71		ø8/20 2 br.	5.03		0.25	2686.98	65946.10	9665.58	9557.22
3	1.17	3.03	1.87	0.61		ø8/30 2 br.	3.35		0.25	2312.92	65946.10	9665.58	6371.48
3	3.03	3.60	0.57	0.89		ø8/20 2 br.	5.03		0.25	3399.86	65946.10	9665.58	9557.22
3	4.10	4.67	0.57	0.71		ø8/20 2 br.	5.03		0.25	2705.43	65946.10	9665.58	9557.22
5	4.67	6.43	1.77	0.48		ø8/30 2 br.	3.35		0.25	1836.93	65946.10	9665.58	6371.48
5	6.43	7.00	0.57	0.77		ø8/20 2 br.	5.03		0.25	2923.87	65946.10	9665.58	9557.22
5	7.50	8.07	0.57	0.65		ø8/20 2 br.	5.03		0.25	2459.47	65946.10	9665.58	9557.22
3	8.07	9.93	1.87	0.59		ø8/30 2 br.	3.35		0.25	2240.25	65946.10	9665.58	6371.48

3	9.93	10.50	0.57	0.87	ø8/20 2 br.	5.03	0.25	3327.19	65946.10	9665.58	9557.22
5	11.00	11.57	0.56	0.66	ø8/20 2 br.	5.03	0.25	2517.43	65946.10	9665.58	9557.22
3	11.57	13.43	1.87	0.58	ø8/30 2 br.	3.35	0.25	2188.20	65946.10	9665.58	6371.48
3	13.43	14.00	0.57	0.86	ø8/20 2 br.	5.03	0.25	3275.14	65946.10	9665.58	9557.22
7	14.50	15.07	0.57	0.61	ø8/20 2 br.	5.03	0.25	2307.62	65946.10	9665.58	9557.22
1	15.07	16.83	1.77	0.58	ø8/30 2 br.	3.35	0.25	2221.25	65946.10	9665.58	6371.48
1	16.83	17.40	0.57	0.87	ø8/20 2 br.	5.03	0.25	3308.19	65946.10	9665.58	9557.22
1	17.90	18.47	0.56	0.68	ø8/20 2 br.	5.03	0.25	2595.37	65946.10	9665.58	9557.22
7	18.47	20.33	1.87	0.61	ø8/30 2 br.	3.35	0.25	2334.92	65946.10	9665.58	6371.48
7	20.33	20.90	0.57	0.91	ø8/20 2 br.	5.03	0.25	3457.31	65946.10	9665.58	9557.22

Travata n. 501 Nodi: 1 -1 2 3 4 -2 5**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	E	X <cm>	Aft S <cmq>	Aft I <cmq>	Afe S <cmq>	Afe I <cmq>	Aftp S <cmq>	Aftp I <cmq>	Afep S <cmq>	Afep I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.50	1(T)	1	50.00	1.15	0.00	3.39	7.92	1.15	0.00	3.39	7.92	-4372.20	-5388.57	-15755.00	0.04	10.00	-0.38	Mz/e	2.93
1.27	1	2	116.33	1.15	0.00	3.39	7.92	1.15	0.00	3.39	7.92	-5388.57		-15755.00	0.04	10.00	-0.38	Mz/e	2.93
3.83	1(T)	2	372.25	0.00	1.04	6.79	15.83	0.00	1.04	6.79	15.83	888.83	4871.93	71524.10	0.12	10.00	-1.41	Mz/e	14.68
4.17	4(T)	3	35.00	0.00	0.81	6.79	7.92	0.00	0.81	6.79	7.92	3703.61	3814.38	36223.20	0.08	10.00	-0.92	Mz/e	9.49
5.80	4(T)	3	197.50	0.00	1.27	3.39	7.92	0.00	1.27	3.39	7.92	3828.23	5958.25	36150.20	0.09	10.00	-1.00	Mz/e	6.06
7.42	1(T)	3	360.00	0.00	1.76	3.39	15.83	0.00	1.76	3.39	15.83	5764.58	8264.74	71079.00	0.13	10.00	-1.54	Mz/e	8.61
7.78	2(T)	4	35.00	0.00	1.58	6.79	7.92	0.00	1.58	6.79	7.92	7126.38	7420.50	36223.20	0.08	10.00	-0.92	Mz/e	4.88
9.30	2(T)	4	187.50	0.00	2.38	3.39	7.92	0.00	2.38	3.39	7.92	8584.00	11151.80	36150.20	0.09	10.00	-1.00	Mz/e	3.24
10.82	1(T)	4	340.00	0.00	2.80	6.79	15.83	0.00	2.80	6.79	15.83	11798.30	13105.70	71524.10	0.12	10.00	-1.41	Mz/e	5.46
11.18	1(T)	5	35.00	0.00	2.48	3.39	15.83	0.00	2.48	3.39	15.83	10438.00	11609.40	71079.00	0.13	10.00	-1.54	Mz/e	6.13
12.84	2(T)	5	201.28	0.00	2.15	3.39	7.92	0.00	2.15	3.39	7.92	8064.41	10087.20	36150.20	0.09	10.00	-1.00	Mz/e	3.58
14.50	1(T)	6	-40.00	0.00	1.15	3.39	7.92	0.00	1.15	3.39	7.92	5788.43	5421.97	36150.20	0.09	10.00	-1.00	Mz/e	6.66

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Aft St. <cmq/m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
2	0.50	3.83	3.33	0.53	ø10/20 2 br.	7.85	0.40	4467.24	235305.00	34488.20	33302.30
1	4.17	7.42	3.25	0.51	ø10/20 2 br.	7.85	0.40	4335.84	235305.00	34488.20	33302.30
1	7.78	10.82	3.05	0.47	ø10/20 2 br.	7.85	0.40	3985.36	235305.00	34488.20	33302.30
4	11.18	14.50	3.33	0.31	ø10/20 2 br.	7.85	0.40	2609.18	235305.00	34488.20	33302.30

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. ala <cmq/m>	Aft St. ala <cmq/m>
5	0.50	3.83	3.33	ø10/20 2 br.	7.85	1.49
7	4.17	7.42	3.25	ø10/20 2 br.	7.85	1.46
7	7.78	10.82	3.05	ø10/20 2 br.	7.85	1.44
5	11.18	14.50	3.33	ø10/20 2 br.	7.85	1.40

Travata n. 502 Nodi: 42 -4 43 10 -5 44

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente

Xg <m>	CC	El X <cm>	Aft S <cmq>	Aft I <cmq>	Afe S <cmq>	Afe I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.	
3.00	7(T)	3	100.69	6.22	0.00	16.09	15.83	6.22	0.00	16.09	15.83	-18536.80	-29138.30	-73726.40	0.07	10.00	-0.79	Mz/e	2.53
3.35	5(T)	4	35.00	4.61	0.00	16.09	15.83	4.61	0.00	16.09	15.83	-16550.70	-21632.80	-73726.40	0.07	10.00	-0.79	Mz/e	3.41

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Aft St. <cmq/m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
7	0.00	3.00	3.00	2.57	ø10/20 2 br.	7.85	0.40	21826.40	235305.00	34488.20	33302.30
3	3.35	7.00	3.65	0.76	ø10/20 2 br.	7.85	0.40	6439.31	235305.00	34488.20	33302.30

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. ala <cmq/m>	Aft St. ala <cmq/m>
7	0.00	3.00	3.00	ø10/20 2 br.	7.85	1.27
7	3.35	7.00	3.65	ø10/20 2 br.	7.85	1.11

Travata n. 503 Nodi: 31 -13 32 33 34 -14 35**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El X <cm>	Aft S <cmq>	Aft I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.	
0.50	1(T)	1	-39.84	1.32	0.00	3.39	7.92	1.32	0.00	3.39	7.92	-4131.85	-6218.54	-15755.00	0.04	10.00	-0.38	Mz/e	2.54
1.60	1	2	222.13	1.32	0.00	3.39	7.92	1.32	0.00	3.39	7.92	-6218.54		-15755.00	0.04	10.00	-0.38	Mz/e	2.54
3.82	1(T)	2	0.00	1.23	0.00	3.39	15.83	1.23	0.00	3.39	15.83	-695.75	-5785.99	-15753.30	0.04	10.00	-0.37	Mz/e	2.72
4.17	8(T)	3	305.00	0.00	0.88	6.79	7.92	0.00	0.88	6.79	7.92	3992.31	4116.57	36223.20	0.08	10.00	-0.92	Mz/e	8.79
4.66	1	3	256.06	0.45	0.00	3.39	7.92	0.45	0.00	3.39	7.92	-2114.70		-15755.00	0.04	10.00	-0.38	Mz/e	7.46
7.22	1(T)	3	-0.00	0.00	1.67	6.79	15.83	0.00	1.67	6.79	15.83	3776.31	7820.92	71524.10	0.12	10.00	-1.41	Mz/e	9.14
7.57	6(T)	4	325.00	0.00	1.54	3.39	15.83	0.00	1.54	3.39	15.83	6706.98	7215.69	71079.00	0.13	10.00	-1.54	Mz/e	9.86
9.20	6(T)	4	162.50	0.00	2.40	3.39	7.92	0.00	2.40	3.39	7.92	8156.65	11250.30	36150.20	0.09	10.00	-1.00	Mz/e	3.21
10.82	1(T)	4	0.00	0.00	2.85	6.79	15.83	0.00	2.85	6.79	15.83	11801.10	13309.90	71524.10	0.12	10.00	-1.41	Mz/e	5.37
11.17	1(T)	5	372.56	0.00	2.57	6.79	7.92	0.00	2.57	6.79	7.92	10726.70	12026.90	36223.20	0.08	10.00	-0.92	Mz/e	3.01
12.84	1(T)	5	206.28	0.00	2.39	3.39	7.92	0.00	2.39	3.39	7.92	9694.01	11162.20	36150.20	0.09	10.00	-1.00	Mz/e	3.24
14.50	1(T)	6	50.00	0.00	2.20	3.39	7.92	0.00	2.20	3.39	7.92	10202.50	10291.30	36150.20	0.09	10.00	-1.00	Mz/e	3.51

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Aft St. <cmq/m>	Staff.	Afe St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
2	0.50	3.82	3.32	0.53	ø10/20 2 br.	7.85	0.40	4488.75	235305.00	34488.20	33302.30
1	4.17	7.22	3.05	0.52	ø10/20 2 br.	7.85	0.40	4373.80	235305.00	34488.20	33302.30
1	7.57	10.82	3.25	0.57	ø10/20 2 br.	7.85	0.40	4814.89	235305.00	34488.20	33302.30
8	11.17	14.50	3.33	0.24	ø10/20 2 br.	7.85	0.40	2076.20	235305.00	34488.20	33302.30

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura esistente

C	X0 <m>	X1 <m>	Lung. <m>	Staff.	Afe St. ala <cmq/m>	Aft St. ala <cmq/m>
1	0.50	3.82	3.32	ø10/20 2 br.	7.85	1.51
3	4.17	7.22	3.05	ø10/20 2 br.	7.85	1.47

3	7.57	10.82	3.25	ø10/20 2 br.	7.85	1.45
3	11.17	14.50	3.33	ø10/20 2 br.	7.85	1.29

Travata n. 504 Nodi: 5 42 13 20 26 45 47 35**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El X <cm>	Aft S <cmq>	Aft I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.25	7(T)	1 25.00	6.20	0.00	8.04	7.92	6.20	0.00	8.04	7.92	-6009.27	-29042.10	-37105.30	0.05	10.00	-0.58	Mz/e	1.28
1.79	1(T)	2 0.00	6.80	0.00	8.04	7.92	6.80	0.00	8.04	7.92	-28629.10	-31813.90	-37105.30	0.05	10.00	-0.58	Mz/e	1.17
3.10	1(T)	2 131.25	0.00	2.39	11.44	7.92	0.00	2.39	11.44	7.92	8194.19	11200.70	36225.40	0.08	10.00	-0.83	Mz/e	3.23
3.45	1(T)	3 35.00	0.00	1.57	11.44	7.92	0.00	1.57	11.44	7.92	6568.81	7341.08	36225.40	0.08	10.00	-0.83	Mz/e	4.94
4.68	1(T)	3 157.38	0.00	2.66	3.39	7.92	0.00	2.66	3.39	7.92	4942.11	12426.70	36150.20	0.09	10.00	-1.00	Mz/e	2.91
5.90	1(T)	3 279.75	0.00	4.59	3.39	15.83	0.00	4.59	3.39	15.83	19404.50	21362.30	71079.00	0.13	10.00	-1.54	Mz/e	3.33
6.25	1(T)	4 35.00	0.00	3.38	3.39	15.83	0.00	3.38	3.39	15.83	14003.20	15754.20	71079.00	0.13	10.00	-1.54	Mz/e	4.52
8.22	2(T)	4 232.13	1.52	0.00	3.39	7.92	1.52	0.00	3.39	7.92	-6877.28	-7152.50	-15755.00	0.04	10.00	-0.38	Mz/e	2.20
9.05	5(T)	4 314.75	0.00	1.44	17.47	15.83	0.00	1.44	17.47	15.83	1536.40	6773.93	72096.50	0.10	10.00	-1.13	Mz/e	10.64
9.40	3(T)	5 35.00	13.04	0.00	14.07	7.92	13.04	0.00	14.07	7.92	-15178.10	-60616.20	-64566.20	0.07	10.00	-0.78	Mz/e	1.07
10.76	1(T)	5 171.73	13.93	0.00	14.07	7.92	13.93	0.00	14.07	7.92	-64631.50	-64697.60	-64566.20	0.07	10.00	-0.78	Mz/e	1.00
12.25	3(T)	7 43.95	7.61	0.00	14.07	7.92	7.61	0.00	14.07	7.92	-9363.59	-35563.40	-64566.20	0.07	10.00	-0.78	Mz/e	1.82

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Aft <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
7	0.25	3.10	2.85	4.01		ø10/20 2 br.	7.85		0.40	34004.60	235305.00	34488.20	33302.30
7	3.45	5.90	2.45	2.33		ø10/20 2 br.	7.85		0.40	19759.00	235305.00	34488.20	33302.30
1	6.25	9.05	2.80	2.26		ø10/20 2 br.	7.85		0.40	19136.40	235305.00	34488.20	33302.30
1	9.40	12.25	2.85	4.72		ø10/20 2 br.	7.85		0.40	40068.80	235305.00	34488.20	33302.30

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE <cmq/m>	St. ala <cmq/m>	Aft <cmq/m>	St. ala <cmq/m>
7	0.25	3.10	2.85	ø10/20 2 br.	7.85		1.30	
7	3.45	5.90	2.45	ø10/20 2 br.	7.85		1.27	
3	6.25	9.05	2.80	ø10/20 2 br.	7.85		1.27	
3	9.40	12.25	2.85	ø10/20 2 br.	7.85		1.29	

Travata n. 505 Nodi: 6 7 9 11 14 16 17**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El X <cm>	Aft S <cmq>	Aft I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.60	5(T)	1 60.01	6.16	0.00	6.03	7.92	6.16	0.00	6.03	7.92	-14835.80	-28837.00	-27915.00	0.05	10.00	-0.50	Mz/e	0.97
3.60	1(T)	1 360.00	0.00	5.32	6.03	15.83	0.00	5.32	6.03	15.83	22545.80	24709.80	71449.10	0.13	10.00	-1.44	Mz/e	2.89
4.10	1(T)	2 50.01	0.00	4.34	9.42	7.92	0.00	4.34	9.42	7.92	18683.30	20178.00	36236.40	0.08	10.00	-0.86	Mz/e	1.79
5.55	3(T)	2 195.01	0.00	4.85	3.39	7.92	0.00	4.85	3.39	7.92	19563.70	22559.00	36150.20	0.09	10.00	-1.00	Mz/e	1.60
7.00	1(T)	2 340.00	0.00	5.97	3.39	15.83	0.00	5.97	3.39	15.83	26576.90	27659.30	71079.00	0.13	10.00	-1.54	Mz/e	2.57
7.50	1(T)	3 50.01	0.00	4.88	3.39	7.92	0.00	4.88	3.39	7.92	21207.80	22662.10	36150.20	0.09	10.00	-1.00	Mz/e	1.59
9.00	3(T)	3 200.01	0.00	4.16	3.39	7.92	0.00	4.16	3.39	7.92	17678.10	19389.20	36150.20	0.09	10.00	-1.00	Mz/e	1.86

10.50	1(T)	3	350.00	0.00	5.74	6.79	15.83	0.00	5.74	6.79	15.83	25401.80	26625.20	71524.10	0.12	10.00	-1.41	Mz/e	2.69
11.00	1(T)	4	50.01	0.00	4.83	3.39	7.92	0.00	4.83	3.39	7.92	21440.00	22450.70	36150.20	0.09	10.00	-1.00	Mz/e	1.61
12.50	1(T)	4	200.01	0.00	4.83	3.39	7.92	0.00	4.83	3.39	7.92	20117.70	22450.70	36150.20	0.09	10.00	-1.00	Mz/e	1.61
14.00	1(T)	4	350.00	0.00	6.85	3.39	15.83	0.00	6.85	3.39	15.83	30280.30	31652.30	71079.00	0.13	10.00	-1.54	Mz/e	2.25
14.50	1(T)	5	50.01	0.00	6.19	3.39	7.92	0.00	6.19	3.39	7.92	28146.90	28655.80	36150.20	0.09	10.00	-1.00	Mz/e	1.26
15.95	1(T)	5	195.01	0.00	6.50	9.42	7.92	0.00	6.50	9.42	7.92	27340.40	30061.50	36236.40	0.08	10.00	-0.86	Mz/e	1.20
17.40	1(T)	5	340.00	0.00	7.46	6.03	15.83	0.00	7.46	6.03	15.83	33598.90	34396.20	71449.10	0.13	10.00	-1.44	Mz/e	2.08
17.90	1(T)	6	50.01	0.00	6.77	6.03	7.92	0.00	6.77	6.03	7.92	30028.20	31274.10	36154.70	0.09	10.00	-0.93	Mz/e	1.16
20.90	4(T)	6	350.00	3.06	0.00	6.03	7.92	3.06	0.00	6.03	7.92	-992.34	-14361.00	-27915.00	0.05	10.00	-0.50	Mz/e	1.94

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
5	0.60	3.60	3.00	1.54		ø10/20 2 br.	7.85		0.40	13036.90	235305.00	34488.20	33302.30
5	4.10	7.00	2.90	0.98		ø10/20 2 br.	7.85		0.40	8322.70	235305.00	34488.20	33302.30
5	7.50	10.50	3.00	1.09		ø10/20 2 br.	7.85		0.40	9285.46	235305.00	34488.20	33302.30
5	11.00	14.00	3.00	1.24		ø10/20 2 br.	7.85		0.40	10515.70	235305.00	34488.20	33302.30
5	14.50	17.40	2.90	0.77		ø10/20 2 br.	7.85		0.40	6520.68	235305.00	34488.20	33302.30
3	17.90	20.90	3.00	1.39		ø10/20 2 br.	7.85		0.40	11789.00	235305.00	34488.20	33302.30

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
7	0.60	3.60	3.00	ø10/20 2 br.	7.85	1.42
7	4.10	7.00	2.90	ø10/20 2 br.	7.85	1.62
1	7.50	10.50	3.00	ø10/20 2 br.	7.85	1.70
1	11.00	14.00	3.00	ø10/20 2 br.	7.85	1.70
5	14.50	17.40	2.90	ø10/20 2 br.	7.85	1.64
5	17.90	20.90	3.00	ø10/20 2 br.	7.85	1.44

Travata n. 507 Nodi: 1 12 19 25 31**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	X <cm>	AfT <cmq>	S <cmq>	AfT <cmq>	I <cmq>	AfE <cmq>	S <cmq>	AfE <cmq>	I <cmq>	AfTP <cmq>	S <cmq>	AfTP <cmq>	I <cmq>	AfEP <cmq>	S <cmq>	AfEP <cmq>	I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ε _y	ε _c	TS	Sic.
0.25	1(T)	1	285.22	3.13	0.00	6.03	7.92	3.13	0.00	6.03	7.92	-2817.76	-14677.00	-27915.00	0.05	10.00	-0.50	Mz/e	1.90								
1.36	5	1	174.52	3.13	0.00	6.03	7.92	3.13	0.00	6.03	7.92	-14677.00		-27915.00	0.05	10.00	-0.50	Mz/e	1.90								
3.10	1(T)	1	-0.00	0.00	2.42	9.42	7.92	0.00	2.42	9.42	7.92	8523.89	11335.30	36236.40	0.08	10.00	-0.86	Mz/e	3.19								
3.45	6(T)	2	244.75	1.59	0.00	3.39	7.92	1.59	0.00	3.39	7.92	-1223.61	-7484.93	-15755.00	0.04	10.00	-0.38	Mz/e	2.11								
4.47	2(T)	2	143.37	1.59	0.00	3.39	7.92	1.59	0.00	3.39	7.92	-6563.61	-7484.93	-15755.00	0.04	10.00	-0.38	Mz/e	2.11								
5.90	1(T)	2	0.00	0.00	2.73	3.39	15.83	0.00	2.73	3.39	15.83	9297.70	12783.50	71079.00	0.13	10.00	-1.54	Mz/e	5.57								
6.25	2(T)	3	279.75	2.26	0.00	3.39	15.83	2.26	0.00	3.39	15.83	-309.89	-10612.20	-15753.30	0.04	10.00	-0.37	Mz/e	1.48								
7.55	2	3	149.51	2.26	0.00	3.39	7.92	2.26	0.00	3.39	7.92	-10612.20		-15755.00	0.04	10.00	-0.38	Mz/e	1.49								
9.05	1(T)	3	0.00	0.00	2.84	9.42	15.83	0.00	2.84	9.42	15.83	7884.76	13251.20	71746.70	0.12	10.00	-1.33	Mz/e	5.41								
9.40	2(T)	4	310.25	4.20	0.00	9.42	7.92	4.20	0.00	9.42	7.92	-2757.15	-19705.20	-43408.50	0.06	10.00	-0.63	Mz/e	2.20								
11.02	1	4	147.81	4.20	0.00	6.03	7.92	4.20	0.00	6.03	7.92	-19705.20		-27915.00	0.05	10.00	-0.50	Mz/e	1.42								
12.25	1(T)	4	25.00	4.20	0.00	6.03	7.92	4.20	0.00	6.03	7.92	-7975.89	-19705.20	-27915.00	0.05	10.00	-0.50	Mz/e	1.42								

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
7	0.25	3.10	2.85	2.86		ø10/20 2 br.	7.85		0.40	24251.80	235305.00	34488.20	33302.30
7	3.45	5.90	2.45	2.39		ø10/20 2 br.	7.85		0.40	20269.40	235305.00	34488.20	33302.30
5	6.25	9.05	2.80	2.58		ø10/20 2 br.	7.85		0.40	21917.70	235305.00	34488.20	33302.30
3	9.40	12.25	2.85	2.69		ø10/20 2 br.	7.85		0.40	22800.20	235305.00	34488.20	33302.30

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE <cmq/m>	St. ala <cmq/m>	AfT <cmq/m>	St. ala <cmq/m>
5	0.25	3.10	2.85	ø10/20 2 br.	7.85		1.49	
5	3.45	5.90	2.45	ø10/20 2 br.	7.85		1.47	
1	6.25	9.05	2.80	ø10/20 2 br.	7.85		1.48	
1	9.40	12.25	2.85	ø10/20 2 br.	7.85		1.51	

Travata n. 509 Nodi: 43 -6 15 21 23 -8 45**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	X <cm>	AfT <cmq>	S <cmq>	AfE <cmq>	I <cmq>	S <cmq>	AfE <cmq>	I <cmq>	S <cmq>	AfTP <cmq>	I <cmq>	S <cmq>	AfEP <cmq>	I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	t _r	t _c	TS	Sic.
1.66	7(T)	2	0.01	6.11	0.00	10.05	10.05	6.11	0.00	10.05	10.05	-19579.40	-28523.30	-46190.30	0.07	10.00	-0.74	Mz/e	1.62					
1.91	1(T)	3	245.00	7.69	0.00	10.05	10.05	7.69	0.00	10.05	10.05	-22679.10	-35823.00	-46190.30	0.07	10.00	-0.74	Mz/e	1.29					
3.72	1(T)	3	64.13	7.69	0.00	10.05	10.05	7.69	0.00	10.05	10.05	-35361.90	-35823.00	-46190.30	0.07	10.00	-0.74	Mz/e	1.29					
4.36	1(T)	3	0.01	7.69	0.00	10.05	10.05	7.69	0.00	10.05	10.05	-33933.10	-35823.00	-46190.30	0.07	10.00	-0.74	Mz/e	1.29					
4.61	7(T)	4	172.14	7.66	0.00	10.05	10.05	7.66	0.00	10.05	10.05	-34179.70	-35683.80	-46190.30	0.07	10.00	-0.74	Mz/e	1.29					
6.34	3(T)	4	0.01	7.68	0.00	10.05	20.11	7.68	0.00	10.05	20.11	-20426.30	-35786.70	-46210.30	0.06	10.00	-0.66	Mz/e	1.29					
6.59	3(T)	5	250.80	6.18	0.00	10.05	10.05	6.18	0.00	10.05	10.05	-18129.20	-28845.70	-46190.30	0.07	10.00	-0.74	Mz/e	1.60					

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
7	0.00	1.66	1.66	2.40		ø10/20 2 br.	7.85		0.40	20381.60	235305.00	34488.20	33302.30
3	1.91	4.36	2.45	1.50		ø10/20 2 br.	7.85		0.40	12706.60	235305.00	34488.20	33302.30
5	4.61	6.34	1.72	1.60		ø10/20 2 br.	7.85		0.40	13545.30	235305.00	34488.20	33302.30
5	6.59	9.19	2.61	3.59		ø10/20 2 br.	7.85		0.40	30425.40	235305.00	34488.20	33302.30

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE <cmq/m>	St. ala <cmq/m>	AfT <cmq/m>	St. ala <cmq/m>
7	0.00	1.66	1.66	ø10/20 2 br.	7.85		0.37	
7	1.91	4.36	2.45	ø10/20 2 br.	7.85		0.35	
3	4.61	6.34	1.72	ø10/20 2 br.	7.85		0.36	
3	6.59	9.19	2.61	ø10/20 2 br.	7.85		0.40	

Travata n. 511 Nodi: 6 -3 8 44 18 22 -9 27 -10 48**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El X <cm>	AfT S <cmq>	AfT I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.25	7(T)	1 -15.00	4.10	0.00	8.04	7.92	4.10	0.00	8.04	7.92	-1693.66	-19230.50	-37105.30	0.05	10.00	-0.58	Mz/e	1.93
1.55	5(T)	2 0.01	4.41	0.00	8.04	7.92	4.41	0.00	8.04	7.92	-16087.90	-20675.10	-37105.30	0.05	10.00	-0.58	Mz/e	1.80
1.90	5(T)	3 -20.05	7.41	0.00	8.04	7.92	7.41	0.00	8.04	7.92	-19244.90	-34634.20	-37105.30	0.05	10.00	-0.58	Mz/e	1.07
3.79	1(T)	4 145.04	7.42	0.00	8.04	7.92	7.42	0.00	8.04	7.92	-33182.70	-34692.50	-37105.30	0.05	10.00	-0.58	Mz/e	1.07
5.24	1(T)	4 0.01	7.42	0.00	16.09	15.83	7.42	0.00	16.09	15.83	-26969.20	-34692.50	-73726.40	0.07	10.00	-0.79	Mz/e	2.13
5.74	5(T)	5 128.00	5.88	0.00	8.04	7.92	5.88	0.00	8.04	7.92	-25382.70	-27514.10	-37105.30	0.05	10.00	-0.58	Mz/e	1.35
7.02	1(T)	5 0.01	6.28	0.00	8.04	7.92	6.28	0.00	8.04	7.92	-18476.90	-29382.30	-37105.30	0.05	10.00	-0.58	Mz/e	1.26
7.52	1(T)	6 337.76	4.13	0.00	8.04	7.92	4.13	0.00	8.04	7.92	-17007.80	-19353.80	-37105.30	0.05	10.00	-0.58	Mz/e	1.92
7.59	1(T)	6 330.80	4.13	0.00	8.04	7.92	4.13	0.00	8.04	7.92	-17141.10	-19353.80	-37105.30	0.05	10.00	-0.58	Mz/e	1.92
10.75	1(T)	7 25.03	0.00	3.88	16.09	15.83	0.00	3.88	16.09	15.83	13510.60	18097.80	72064.50	0.10	10.00	-1.16	Mz/e	3.98
11.00	1(T)	8 10.00	0.00	1.80	8.04	15.83	0.00	1.80	8.04	15.83	7478.02	8447.28	71615.00	0.12	10.00	-1.37	Mz/e	8.48

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
5	0.25	1.55	1.30	1.74		ø10/20 2 br.	7.85		0.40	14791.30	235305.00	34488.20	33302.30
1	1.90	5.24	3.34	1.51		ø10/20 2 br.	7.85		0.40	12825.00	235305.00	34488.20	33302.30
5	5.74	7.02	1.28	1.13		ø10/20 2 br.	7.85		0.40	9616.74	235305.00	34488.20	33302.30
5	7.52	10.75	3.23	2.45		ø10/20 2 br.	7.85		0.40	20750.20	235305.00	34488.20	33302.30
3	11.00	13.00	2.00	1.31		ø10/20 2 br.	7.85		0.40	11129.40	235305.00	34488.20	33302.30

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
5	0.25	1.55	1.30	ø10/20 2 br.	7.85	1.12
5	1.90	5.24	3.34	ø10/20 2 br.	7.85	1.01
1	5.74	7.02	1.28	ø10/20 2 br.	7.85	0.88
1	7.52	10.75	3.23	ø10/20 2 br.	7.85	0.97
1	11.00	13.00	2.00	ø10/20 2 br.	7.85	0.98

Travata n. 517 Nodi: 17 -7 24 29 -17 41**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El X <cm>	AfT S <cmq>	AfT I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ϵ_y	ϵ_c	TS	Sic.
0.25	7(T)	1 25.04	5.12	0.00	8.04	7.92	5.12	0.00	8.04	7.92	-2135.41	-24001.60	-37105.30	0.05	10.00	-0.58	Mz/e	1.55
3.13	3(T)	2 303.04	6.54	0.00	10.05	7.92	6.54	0.00	10.05	7.92	-29746.70	-30585.80	-46301.90	0.06	10.00	-0.65	Mz/e	1.51
3.50	1(T)	2 340.26	6.54	0.00	10.05	15.83	6.54	0.00	10.05	15.83	-29158.70	-30585.80	-46277.80	0.06	10.00	-0.61	Mz/e	1.51
4.00	1(T)	3 50.01	8.23	0.00	10.05	15.83	8.23	0.00	10.05	15.83	-29772.80	-38470.50	-46277.80	0.06	10.00	-0.61	Mz/e	1.20
5.75	1(T)	3 224.40	8.23	0.00	10.05	7.92	8.23	0.00	10.05	7.92	-37676.50	-38470.50	-46301.90	0.06	10.00	-0.65	Mz/e	1.20
7.02	1(T)	3 352.00	8.23	0.00	10.05	15.83	8.23	0.00	10.05	15.83	-33471.10	-38470.50	-46277.80	0.06	10.00	-0.61	Mz/e	1.20
7.52	1(T)	4 50.01	7.12	0.00	10.05	7.92	7.12	0.00	10.05	7.92	-32290.40	-33323.10	-46301.90	0.06	10.00	-0.65	Mz/e	1.39
7.86	1(T)	4 83.61	7.12	0.00	10.05	7.92	7.12	0.00	10.05	7.92	-32658.30	-33323.10	-46301.90	0.06	10.00	-0.65	Mz/e	1.39
10.75	2(T)	5 -15.01	5.65	0.00	8.04	7.92	5.65	0.00	8.04	7.92	-4011.81	-26460.60	-37105.30	0.05	10.00	-0.58	Mz/e	1.40

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
3	0.25	3.50	3.25	2.22		ø10/20 2 br.	7.85		0.40	18788.50	235305.00	34488.20	33302.30
3	4.00	7.02	3.02	0.98		ø10/20 2 br.	7.85		0.40	8325.27	235305.00	34488.20	33302.30
7	7.52	10.75	3.23	2.25		ø10/20 2 br.	7.85		0.40	19094.20	235305.00	34488.20	33302.30

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE <cmq/m>	St. ala <cmq/m>	AfT <cmq/m>	St. ala <cmq/m>
7	0.25	3.50	3.25	ø10/20 2 br.	7.85		1.00	
7	4.00	7.02	3.02	ø10/20 2 br.	7.85		0.80	
3	7.52	10.75	3.23	ø10/20 2 br.	7.85		1.02	

Travata n. 518 Nodi: 46 -11 38**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	Ei X <cm>	AfT <cmq>	S <cmq>	AfT <cmq>	I <cmq>	AfE <cmq>	S <cmq>	AfE <cmq>	I <cmq>	AfTP <cmq>	S <cmq>	AfTP <cmq>	I <cmq>	AfEP <cmq>	S <cmq>	AfEP <cmq>	I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ε _y	ε _c	TS	Sic.
1.75	7(T)	2	25.01	4.65	0.00		6.03		5.65		4.65	0.00			6.03		5.65		-10325.90	-21763.20	-27853.30	0.06	10.00	-0.59	Mz/e	1.28

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
3	0.00	1.75	1.75	2.45		ø18/20 2 br.	25.45		0.40	20818.20	235305.00	34488.20	107899.00

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE <cmq/m>	St. ala <cmq/m>	AfT <cmq/m>	St. ala <cmq/m>
3	0.00	1.75	1.75	ø18/20 2 br.	25.45		0.39	

Travata n. 519 Nodi: 47 -12 36 48 -15 -16 38**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	Ei X <cm>	AfT <cmq>	S <cmq>	AfT <cmq>	I <cmq>	AfE <cmq>	S <cmq>	AfE <cmq>	I <cmq>	AfTP <cmq>	S <cmq>	AfTP <cmq>	I <cmq>	AfEP <cmq>	S <cmq>	AfEP <cmq>	I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ε _y	ε _c	TS	Sic.
3.96	3(T)	2	385.61	7.43	0.00		16.09		15.83		7.43	0.00			16.09		15.83		-23038.40	-34732.70	-73726.40	0.07	10.00	-0.79	Mz/e	2.12
4.21	1(T)	3	25.00	7.44	0.00		16.09		7.92		7.44	0.00			16.09		7.92		-26177.00	-34779.30	-73638.60	0.08	10.00	-0.85	Mz/e	2.12
4.66	1(T)	3	70.13	7.44	0.00		8.04		7.92		7.44	0.00			8.04		7.92		-33772.50	-34779.30	-37105.30	0.05	10.00	-0.58	Mz/e	1.07
7.70	7(T)	6	9.99	5.00	0.00		8.04		7.92		5.00	0.00			8.04		7.92		-9444.20	-23434.20	-37105.30	0.05	10.00	-0.58	Mz/e	1.58

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT <cmq/m>	St. <cmq/m>	Staff.	AfE <cmq/m>	St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
3	-0.00	2.70	2.70	0.83		ø10/20 2 br.	7.85		0.40	7042.33	235305.00	34488.20	33302.30
7	2.70	3.96	1.26	1.22		ø10/20 2 br.	7.85		0.40	10312.40	235305.00	34488.20	33302.30
3	4.21	7.70	3.49	1.75		ø10/20 2 br.	7.85		0.40	14855.70	235305.00	34488.20	33302.30

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
3	-0.00	2.70	2.70	ø10/20 2 br.	7.85	1.26
3	2.70	3.96	1.26	ø10/20 2 br.	7.85	1.26
1	4.21	7.70	3.49	ø10/20 2 br.	7.85	1.05

Travata n. 520 Nodi: 27 46 28 30 37 39 40 41**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El X <cm>	AfT S <cmq>	AfT I <cmq>	AfE S <cmq>	AfE I <cmq>	AfTP S <cmq>	AfTP I <cmq>	AfEP S <cmq>	AfEP I <cmq>	My <kgm>	My ver. <kgm>	Myu <kgm>	x/d	ε _y	ε _c	TS	Sic.
0.60	5(T)	1 244.02	6.24	0.00	6.03	7.92	6.24	0.00	6.03	7.92	-15863.20	-29203.50	-27915.00	0.05	10.00	-0.50	Mz/e	0.96
3.60	1(T)	2 0.01	0.00	1.73	6.03	15.83	0.00	1.73	6.03	15.83	3723.38	8102.97	71449.10	0.13	10.00	-1.44	Mz/e	8.82
4.10	1(T)	3 290.00	0.00	0.85	6.03	15.83	0.00	0.85	6.03	15.83	2727.28	4008.01	71449.10	0.13	10.00	-1.44	Mz/e	17.83
5.55	7(T)	3 145.01	0.00	4.76	3.39	7.92	0.00	4.76	3.39	7.92	13485.80	22120.20	36150.20	0.09	10.00	-1.00	Mz/e	1.63
7.00	1(T)	3 0.01	0.00	5.99	3.39	15.83	0.00	5.99	3.39	15.83	25617.60	27741.80	71079.00	0.13	10.00	-1.54	Mz/e	2.57
7.50	1(T)	4 300.00	0.00	4.89	3.39	7.92	0.00	4.89	3.39	7.92	21259.90	22717.20	36150.20	0.09	10.00	-1.00	Mz/e	1.59
9.00	5(T)	4 150.01	0.00	5.16	3.39	7.92	0.00	5.16	3.39	7.92	21034.30	23974.90	36150.20	0.09	10.00	-1.00	Mz/e	1.51
10.50	1(T)	4 0.01	0.00	6.75	6.79	15.83	0.00	6.75	6.79	15.83	29219.10	31200.60	71524.10	0.12	10.00	-1.41	Mz/e	2.29
11.00	1(T)	5 300.00	0.00	5.68	3.39	7.92	0.00	5.68	3.39	7.92	24929.20	26351.20	36150.20	0.09	10.00	-1.00	Mz/e	1.37
12.50	5(T)	5 150.01	0.00	5.68	3.39	7.92	0.00	5.68	3.39	7.92	24004.50	26351.20	36150.20	0.09	10.00	-1.00	Mz/e	1.37
14.00	1(T)	5 0.01	0.00	7.56	3.39	15.83	0.00	7.56	3.39	15.83	32330.10	34876.10	71079.00	0.13	10.00	-1.54	Mz/e	2.04
14.50	1(T)	6 290.00	0.00	6.77	3.39	15.83	0.00	6.77	3.39	15.83	29622.80	31284.30	71079.00	0.13	10.00	-1.54	Mz/e	2.27
15.95	5(T)	6 145.01	0.00	6.77	3.39	7.92	0.00	6.77	3.39	7.92	29324.20	31284.30	36150.20	0.09	10.00	-1.00	Mz/e	1.15
17.40	1(T)	6 0.01	0.00	7.80	6.03	15.83	0.00	7.80	6.03	15.83	33496.70	35961.20	71449.10	0.13	10.00	-1.44	Mz/e	1.99
17.90	1(T)	7 360.00	0.00	6.99	6.03	15.83	0.00	6.99	6.03	15.83	29492.80	32305.10	71449.10	0.13	10.00	-1.44	Mz/e	2.21
20.90	4(T)	7 60.01	2.93	0.00	6.03	7.92	2.93	0.00	6.03	7.92	-743.68	-13756.30	-27915.00	0.05	10.00	-0.50	Mz/e	2.03

Staffe - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	AfT St. <cmq/m>	Staff.	AfE St. <cmq/m>	bw <m>	Vsdu <kg>	Vrdu <kg>	Vcd <kg>	Vwd <kg>
5	0.60	3.60	3.00	2.65	ø10/20 2 br.	7.85	0.40	22475.80	235305.00	34488.20	33302.30
5	4.10	7.00	2.90	1.32	ø10/20 2 br.	7.85	0.40	11161.40	235305.00	34488.20	33302.30
5	7.50	10.50	3.00	1.11	ø10/20 2 br.	7.85	0.40	9425.58	235305.00	34488.20	33302.30
5	11.00	14.00	3.00	1.17	ø10/20 2 br.	7.85	0.40	9921.94	235305.00	34488.20	33302.30
5	14.50	17.40	2.90	0.70	ø10/20 2 br.	7.85	0.40	5964.41	235305.00	34488.20	33302.30
7	17.90	20.90	3.00	1.35	ø10/20 2 br.	7.85	0.40	11475.00	235305.00	34488.20	33302.30

Staffatura ala, ferri di suola e ferri di fianco - Verifiche armatura esistente

CC	X0 <m>	X1 <m>	Lung. <m>	Staff.	AfE St. ala <cmq/m>	AfT St. ala <cmq/m>
3	0.60	3.60	3.00	ø10/20 2 br.	7.85	1.21
7	4.10	7.00	2.90	ø10/20 2 br.	7.85	1.51
7	7.50	10.50	3.00	ø10/20 2 br.	7.85	1.66
7	11.00	14.00	3.00	ø10/20 2 br.	7.85	1.66
5	14.50	17.40	2.90	ø10/20 2 br.	7.85	1.64
1	17.90	20.90	3.00	ø10/20 2 br.	7.85	1.45

Verifiche e armature pilastri

Simbologia

Xg	= Coordinata progressiva (dal primo nodo) in cui viene effettuato il progetto/verifica
CC	= Combinazione delle condizioni di carico elementari e = eccentricità aggiuntiva in caso di compressione o pressoflessione
Cmb	= Tipo di combinazione di carico Ind = Indefinito Tamm = Calcolo con tensioni ammissibili SLU = Stato limite ultimo SLU S = Stato limite ultimo (azione sismica) SLE R = Stato limite d'esercizio, combinazione rara SLE F = Stato limite d'esercizio, combinazione frequente SLE Q = Stato limite d'esercizio, combinazione quasi permanente
In	= Codice identificativo della travata facente parte dell'involuppo
El	= Elemento (asta) in cui viene effettuato il progetto/verifica (progressivo sul numero di aste)
Sez.	= Numero della sezione
X	= Coordinata progressiva rispetto al nodo iniziale
N	= Sforzo normale
Ty	= Taglio in dir. Y
Mz	= Momento flettente intorno all'asse Z
Tz	= Taglio in dir. Z
My	= Momento flettente intorno all'asse Y
My ver.	= Momento flettente di verifica intorno all'asse Y
Mz ver.	= Momento flettente di verifica intorno all'asse Z
Nu	= Sforzo normale ultimo
M1Rdy	= Momento resistente (ridotto per stabilità) intorno all'asse Y
M1Rdz	= Momento resistente (ridotto per stabilità) intorno all'asse Z
x/d	= Rapporto x/d a rottura
Rott.	= Tipo di rottura 1-2 = Rott. acciaio: $\sigma_Y = \sigma_{Yd}$, $\sigma_C < \sigma_{Cu}$ 2-3 = Rott. cls: $\sigma_Y < \sigma_{Yd}$, $\sigma_C = \sigma_{Cu}$ 3-4 = Rott. cls: $\sigma_{C0} < \sigma_C < \sigma_{Cu}$
α	= Angolo asse neutro a rottura
ϵ_Y	= Deformazione nell'acciaio (*1000)
ϵ_C	= Deformazione nel calcestruzzo (*1000)
TS	= Modalità di calcolo sicurezza N/e = N costante ed eccentricità costante My/e = My costante ed eccentricità costante My/N = My e N costante Mz/e = Mz costante ed eccentricità costante Mz/N = Mz e N costante
Sic.	= Sicurezza a rottura
l_0	= Lunghezza libera di inflessione
λ	= Snellezza massima
λ^*	= Snellezza limite
AfT	= Area di ferro tesa
AfC	= Area di ferro compressa
σ_c	= Tensione nel calcestruzzo

σ_f	= Tensione nel ferro
X0	= Coordinata progressiva (dal nodo iniziale) dell'inizio del tratto di progettazione
X1	= Coordinata progressiva (dal nodo iniziale) della fine del tratto di progettazione
Staff.	= Staffatura adottata
$bw_{,y}$	= Larghezza membratura resistente al taglio in dir Y
$Vsdu_{,y}$	= Taglio agente in dir Y
$Vrdu_{,y}$	= Taglio ultimo assorbibile dal solo calcestruzzo in dir. Y
$Vcd_{,y}$	= Taglio ultimo assorbito dal calcestruzzo in dir Y
$Vwd_{,y}$	= Taglio ultimo assorbito dall'armatura in dir Y
$bw_{,z}$	= Larghezza membratura resistente al taglio in dir Z
$Vsdu_{,z}$	= Taglio agente in dir Z
$Vrdu_{,z}$	= Taglio ultimo assorbibile dal solo calcestruzzo in dir. Z
$Vcd_{,z}$	= Taglio ultimo assorbito dal calcestruzzo in dir Z
$Vwd_{,z}$	= Taglio ultimo assorbito dall'armatura in dir Z
Myu	= Momento ultimo intorno all'asse Y
Mzu	= Momento ultimo intorno all'asse Z

Pilastrata n. 1 (a)Pilastrata 5 (b)Pilastrata 31 (c)Pilastrata 35 (d)

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente - controlli di stabilità

Xg <m>	CC	In	El	Sez.	X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	M1Rdy <kgm>	M1Rdz <kgm>	x/d	Rotf.	α <grad>	ϵ_y	ϵ_c	TS	Sic.
0.00	4(e)	b	1	15	0.00	-17477.70	-2645.44	-2994.99	0.00	0.00	-17483.10	-3482.56	0.00	0.24	1-2	180.00	10.00	-3.10	N/e	1.16
3.76	3(e)	d	1	15	376.00	-23977.60	2579.84	3059.40	0.00	0.00	-23984.60	3763.79	-0.00	0.27	2-3	0.00	9.66	-3.50	N/e	1.23

Dati per verifiche di stabilità

Xg <m>	El	l_0 <m>	λ	λ^*
0.00	1	4.16	57.64	45.32
3.76	1	4.16	57.64	46.85

Staffe - Verifiche armatura esistente

X0 <m>	X1 <m>	Staff.	CC	In	$bw_{,y}$ <m>	$Vsdu_{,y}$ <kg>	$Vrdu_{,y}$ <kg>	$Vcd_{,y}$ <kg>	$Vwd_{,y}$ <kg>	$bw_{,z}$ <m>	$Vsdu_{,z}$ <kg>	$Vrdu_{,z}$ <kg>	$Vcd_{,z}$ <kg>	$Vwd_{,z}$ <kg>
0.00	3.76	ø8/18 2 br.	2	a	0.25	1662.50	53223.80	7800.89	8570.49	0.50	912.62	48088.10	7048.17	3871.75
0.00	3.76	ø8/18 2 br.	3	d	0.25	118.03	53223.80	7800.89	8570.49	0.50	1390.20	48088.10	7048.17	3871.75

Pilastrata n. 2 (a)Pilastrata 3 (b)Pilastrata 4 (c)Pilastrata 12 (d)Pilastrata 13 (e)Pilastrata 19 (f)Pilastrata 20 (g)Pilastrata 25 (h)Pilastrata 26 (i)Pilastrata 32 (j)Pilastrata 33 (k)Pilastrata 34 (l)

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente - controlli di stabilità

Xg <m>	CC	In	El	Sez.	X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	M1Rdy <kgm>	M1Rdz <kgm>	x/d	Rotf.	α <grad>	ϵ_y	ϵ_c	TS	Sic.
0.00	3(e)	i	1	6	0.00	-51105.20	0.00	1022.10	1957.54	1957.54	-51105.20	1948.72	3649.76	0.65	2-3	40.00	1.87	-3.50	N/e	1.88
3.76	7(e)	i	1	6	376.00	-50701.80	0.00	1014.04	4.38	4.38	-50701.80	2983.19	0.00	0.65	2-3	0.00	1.92	-3.50	N/e	2.94

Dati per verifiche di stabilità

Xg <m>	El	l_0 <m>	λ	λ^*
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0.00	1	4.16	57.64	26.56
3.76	1	4.16	57.64	26.86

Staffe - Verifiche armatura esistente

X0 <m>	X1 <m>	Staff.	CC	In	bw _y <m>	Vsdu _y <kg>	Vrdu _y <kg>	Vcd _y <kg>	Vwd _y <kg>	bw _z <m>	Vsdu _z <kg>	Vrdu _z <kg>	Vcd _z <kg>	Vwd _z <kg>
0.00	3.76	ø8/18 2 br.	3	i	0.25	470.56	35715.90	5234.81	5751.25	0.35	0.00	33661.70	4933.72	3871.75

Pilastrata n. 6**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	Sez.	X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	Myu <kgm>	Mzu <kgm>	x/d	Rott.	α <grad>	ε _y	ε _c	TS	Sic.
0.00	5(e)	1	5	0.00	-4678.22	0.00	0.00	6838.30	6931.87	-4678.95	-0.00	9524.21	0.16	1-2	90.00	10.00	-1.85	N/e	1.37
3.92	1(e)	1	5	392.00	-1554.77	1494.52	1525.62	0.00	0.00	-1556.23	3309.80	0.03	0.17	1-2	0.00	10.00	-2.09	N/e	2.17
4.16	5(e)	2	16	0.00	-3196.32	0.00	0.00	-675.43	-739.36	-3196.53	-0.00	-2468.90	0.23	1-2	270.00	10.00	-2.98	N/e	3.32
4.16	5(e)	2	16	0.00	-3196.32	0.00	0.00	-675.43	-739.36	-3199.71	-0.00	-2466.21	0.23	1-2	270.00	10.00	-2.94	N/e	3.34
4.91	5(e)	2	16	74.50	-3033.35	0.00	0.00	-1934.76	-1995.43	-3034.41	-0.00	-2452.08	0.23	1-2	270.00	10.00	-2.92	N/e	1.23

Staffe - Verifiche armatura esistente

X0 <m>	X1 <m>	Staff.	CC	bw _y <m>	Vsdu _y <kg>	Vrdu _y <kg>	Vcd _y <kg>	Vwd _y <kg>	bw _z <m>	Vsdu _z <kg>	Vrdu _z <kg>	Vcd _z <kg>	Vwd _z <kg>
0.00	3.92	ø8/18 2 br.	5	0.25	1840.83	64895.60	9511.61	10450.00	0.60	212.64	57705.80	8457.81	3871.75
0.00	3.92	ø8/18 2 br.	1	0.25	1614.78	64895.60	9511.61	10450.00	0.60	1002.56	57705.80	8457.81	3871.75
4.16	4.91	ø8/18 2 br.	5	0.25	1690.38	24044.10	3524.09	3871.75	0.25	1362.96	24044.10	3524.09	3871.75

Pilastrata n. 7 (a)**9 (b)Pilastrata****11 (c)Pilastrata****14 (d)Pilastrata****16 (e)Pilastrata****28 (f)Pilastrata****30 (g)Pilastrata****37 (h)Pilastrata****39 (i)Pilastrata****Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	In	El	Sez.	X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	Myu <kgm>	Mzu <kgm>	x/d	Rott.	α <grad>	ε _y	ε _c	TS	Sic.
4.16	3(e)	e	2	4	0.00	-14605.80	376.40	668.52	0.00	0.00	-14609.40	4407.69	0.02	0.23	1-2	0.00	10.00	-3.07	N/e	6.59
4.16	3(e)	e	2	4	0.00	-14605.80	376.40	668.52	0.00	0.00	-14613.50	3900.83	-0.00	0.23	1-2	0.00	10.00	-2.91	N/e	5.84
4.91	3(e)	e	2	4	74.50	-14279.90	695.40	981.00	0.00	0.00	-14279.90	3872.00	-0.00	0.22	1-2	0.00	10.00	-2.89	N/e	3.95

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente - controlli di stabilità

Xg <m>	CC	In	El	Sez.	X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	M1Rdy <kgm>	M1Rdz <kgm>	x/d	Rott.	α <grad>	ε _y	ε _c	TS	Sic.
0.00	3(e)	f	1	4	0.00	-16804.70	-1985.16	-2451.21	0.00	0.00	-16813.50	-2664.54	0.01	0.24	1-2	180.00	10.00	-3.21	N/e	1.09
4.16	1(e)	f	1	4	416.00	-14512.40	734.04	1136.52	0.00	0.00	-14515.70	2712.37	0.01	0.23	1-2	0.00	10.00	-3.07	N/e	2.39

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*
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0.00	1	8.32	115.29	56.78
4.16	1	8.32	115.29	60.11
4.16	2	1.49	20.65	60.11
4.16	2	1.49	20.65	59.04
4.91	2	1.49	20.65	59.69

Staffe - Verifiche armatura esistente

X0 <m>	X1 <m>	Staff.	CC	In	bw _y <m>	Vsdu _y <kg>	Vrdu _y <kg>	Vcd _y <kg>	Vwd _y <kg>	bw _z <m>	Vsdu _z <kg>	Vrdu _z <kg>	Vcd _z <kg>	Vwd _z <kg>
0.00	4.16	ø8/18 2 br.	5	f	0.25	1469.72	53223.80	7800.89	8570.49	0.50	296.77	48088.10	7048.17	3871.75
4.16	4.91	ø8/18 2 br.	5	f	0.25	1206.07	53223.80	7800.89	8570.49	0.50	10.50	48088.10	7048.17	3871.75
4.16	4.91	ø8/18 2 br.	3	f	0.25	692.21	53223.80	7800.89	8570.49	0.50	984.38	48088.10	7048.17	3871.75

Pilastrata n. 8**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El Sez. X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	Myu <kgm>	Mzu <kgm>	x/d	Rott. α <grad>	ε _y	ε _c	TS	Sic.
3.92	5(e)	1 6	392.00	-9610.39	-280.56	-472.77	0.00	0.00	-9610.80	-2604.56	-0.00	0.22 1-2	180.00	10.00	-2.82	N/e 5.51
4.16	5(e)	2 6	0.00	-6069.43	-507.43	-628.82	0.00	0.00	-6078.31	-2286.61	-0.00	0.20 1-2	180.00	10.00	-2.47	N/e 3.64
4.16	5(e)	2 6	0.00	-6069.43	-507.43	-628.82	0.00	0.00	-6078.31	-2286.61	-0.00	0.20 1-2	180.00	10.00	-2.47	N/e 3.64
4.91	1(e)	2 6	74.50	-5995.14	-988.64	-1108.54	0.00	0.00	-6003.63	-2279.73	-0.00	0.20 1-2	180.00	10.00	-2.46	N/e 2.06

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente - controlli di stabilità

Xg <m>	CC	El Sez. X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	M1Rdy <kgm>	M1Rdz <kgm>	x/d	Rott. α <grad>	ε _y	ε _c	TS	Sic.
0.00	1(e)	1 6	0.00	-11636.50	0.00	0.00	1761.63	1994.36	-11646.40	-0.00	3671.31	0.21 1-2	90.00	10.00	-2.59	N/e 1.84

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*
0.00	1	4.16	57.64	56.06
3.92	1	4.16	57.64	59.20
4.16	2	0.75	10.32	76.66
4.16	2	0.75	10.32	76.66
4.91	2	0.75	10.32	78.11

Staffe - Verifiche armatura esistente

X0 <m>	X1 <m>	Staff.	CC	bw _y <m>	Vsdu _y <kg>	Vrdu _y <kg>	Vcd _y <kg>	Vwd _y <kg>	bw _z <m>	Vsdu _z <kg>	Vrdu _z <kg>	Vcd _z <kg>	Vwd _z <kg>
0.00	3.92	ø8/18 2 br.	1	0.25	423.47	35715.90	5234.81	5751.25	0.35	37.79	33661.70	4933.72	3871.75
4.16	4.91	ø8/18 2 br.	1	0.25	252.57	35715.90	5234.81	5751.25	0.35	1195.10	33661.70	4933.72	3871.75

Pilastrata n. 10**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC <m>	El Sez. X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	Myu <kgm>	Mzu <kgm>	x/d	Rott. α <grad>	ε _y	ε _c	TS	Sic.	
0.00	8(e)	1 6	0.00	-3607.86	0.00	0.00	-255.03	-327.18	-3608.10	0.00	-2996.29	0.16	1-2	270.00	10.00	-1.87	N/e 9.16
3.92	7(e)	1 6	392.00	-2951.17	0.00	59.02	-14.03	-14.03	-2951.20	1989.15	-465.60	0.21	1-2	357.19	10.00	-2.60	N/e 33.70

Staffe - Verifiche armatura esistente

X0 <m>	X1 <m>	Staff.	CC	bw _y <m>	Vsdu _y <kg>	Vrdu _y <kg>	Vcd _y <kg>	Vwd _y <kg>	bw _z <m>	Vsdu _z <kg>	Vrdu _z <kg>	Vcd _z <kg>	Vwd _z <kg>
0.00	3.92	ø8/18 2 br.	8	0.25	61.30	35715.90	5234.81	5751.25	0.35	0.00	33661.70	4933.72	3871.75

Pilastrata n. 15**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC <m>	El Sez. X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	Myu <kgm>	Mzu <kgm>	x/d	Rott. α <grad>	ε _y	ε _c	TS	Sic.
0.00	3(e)	1 7	0.00	-6058.59	0.00	0.00	0.00	121.17	-6068.50	0.00	2205.03	0.23 1-2	90.00	10.00	-2.95	N/e 18.20
3.92	3(e)	1 7	392.00	-6058.59	0.00	0.00	0.00	121.17	-6068.50	0.00	2205.03	0.23 1-2	90.00	10.00	-2.95	N/e 18.20

Pilastrata n. 17**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El Sez. X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	Myu <kgm>	Mzu <kgm>	x/d	Rott. α <grad>	ε _y	ε _c	TS	Sic.	
4.16	3(e)	2 16	0.00	-4886.26	1008.42	1106.14	0.00	0.00	-4887.66	2610.21	0.01	0.24	1-2	0.00	10.00	-3.11	N/e 2.36
4.16	3(e)	2 16	0.00	-4886.26	1008.42	1106.14	0.00	0.00	-4886.48	2102.92	0.01	0.22	1-2	0.00	10.00	-2.82	N/e 1.90
4.91	3(e)	2 16	74.50	-4723.29	0.00	0.00	1987.17	2081.63	-4723.54	0.00	2088.79	0.22	1-2	90.00	10.00	-2.80	N/e 1.00

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente - controlli di stabilità

Xg <m>	CC	El	Sez.	X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	M1Rdy <kgm>	M1Rdz <kgm>	x/d	Rott.	α <grad>	ε _y	ε _c	TS	Sic.
0.00	3(e)	1	5	0.00	-7070.26	-2367.45	-2563.53	0.00	0.00	-7076.57	-2899.79	0.03	0.19	1-2	180.00	10.00	-2.37	N/e	1.13
4.16	3(e)	1	5	416.00	-4886.26	1008.42	1143.93	0.00	0.00	-4886.38	2923.35	0.02	0.18	1-2	0.00	10.00	-2.25	N/e	2.56

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*
0.00	1	8.32	115.29	91.40
4.16	1	8.32	115.29	108.27
4.16	2	1.49	20.65	73.99
4.16	2	1.49	20.65	71.46
4.91	2	1.49	20.65	72.56

Staffe - Verifiche armatura esistente

X0 <m>	X1 <m>	Staff.	CC	bw _y <m>	Vsdu _y <kg>	Vrdu _y <kg>	Vcd _y <kg>	Vwd _y <kg>	bw _z <m>	Vsdu _z <kg>	Vrdu _z <kg>	Vcd _z <kg>	Vwd _z <kg>
0.00	4.16	ø8/18 2 br.	3	0.25	1790.33	64895.60	9511.61	10450.00	0.60	811.51	57705.80	8457.81	3871.75

4.16 4.91 ø8/18 2 br. 3 0.25 1790.33 24044.10 3524.09 3871.75 0.25 811.51 24044.10 3524.09 3871.75

Pilastrata n. 18

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente

Xg <m>	CC	El	Sez.	X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	Myu <kgm>	Mzu <kgm>	x/d	Rott.	α <grad>	ϵ_y	ϵ_c	TS	Sic.
0.00	2(e)	1	15	0.00	-10307.70	0.00	0.00	3773.00	3979.15	-10310.70	0.00	7610.83	0.19	1-2	90.00	10.00	-2.39	N/e	1.91
3.92	5(e)	1	15	392.00	-11463.00	-259.69	-488.95	0.00	0.00	-11463.00	-3626.60	0.00	0.21	1-2	180.00	10.00	-2.72	N/e	7.42
4.16	1(e)	2	15	0.00	-7201.97	0.00	0.00	2135.86	2279.90	-7207.43	0.00	7003.72	0.18	1-2	90.00	10.00	-2.18	N/e	3.07
4.16	1(e)	2	15	0.00	-7201.97	0.00	0.00	2135.86	2279.90	-7207.43	0.00	7003.72	0.18	1-2	90.00	10.00	-2.18	N/e	3.07
4.91	5(e)	2	15	74.50	-6425.42	-373.79	-502.30	0.00	0.00	-6429.99	-3165.70	0.00	0.19	1-2	180.00	10.00	-2.35	N/e	6.30

Staffe - Verifiche armatura esistente

X0 <m>	X1 <m>	Staff.	CC	bw _y <m>	Vsdu _y <kg>	Vrdu _y <kg>	Vcd _y <kg>	Vwd _y <kg>	bw _z <m>	Vsdu _z <kg>	Vrdu _z <kg>	Vcd _z <kg>	Vwd _z <kg>
0.00	3.92	ø8/18 2 br.	2	0.25	906.97	53223.80	7800.89	8570.49	0.50	96.43	48088.10	7048.17	3871.75
4.16	4.91	ø8/18 2 br.	1	0.25	2866.93	53223.80	7800.89	8570.49	0.50	178.74	48088.10	7048.17	3871.75

Pilastrata n. 21

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente

Xg <m>	CC	El	Sez.	X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	Myu <kgm>	Mzu <kgm>	x/d	Rott.	α <grad>	ϵ_y	ϵ_c	TS	Sic.
0.00	1(e)	1	7	0.00	-4271.07	0.00	0.00	0.00	85.42	-4271.37	0.00	2049.49	0.22	1-2	90.00	10.00	-2.75	N/e	23.99
3.92	1(e)	1	7	392.00	-4271.07	0.00	0.00	0.00	85.42	-4271.37	0.00	2049.49	0.22	1-2	90.00	10.00	-2.75	N/e	23.99

Pilastrata n. 22

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente

Xg <m>	CC	El	Sez.	X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	Myu <kgm>	Mzu <kgm>	x/d	Rott.	α <grad>	ϵ_y	ϵ_c	TS	Sic.
0.00	2(e)	1	15	0.00	-10129.00	0.00	0.00	3367.63	3570.21	-10130.70	0.00	7576.12	0.19	1-2	90.00	10.00	-2.37	N/e	2.12
3.92	5(e)	1	15	392.00	-11556.10	-245.48	-476.61	0.00	0.00	-11556.10	-3635.03	0.00	0.21	1-2	180.00	10.00	-2.72	N/e	7.63
4.16	7(e)	2	15	0.00	-6966.34	0.00	0.00	-1954.96	-2094.29	-6972.42	0.00	-6956.81	0.18	1-2	270.00	10.00	-2.16	N/e	3.32
4.16	7(e)	2	15	0.00	-6966.34	0.00	0.00	-1954.96	-2094.29	-6972.42	0.00	-6956.81	0.18	1-2	270.00	10.00	-2.16	N/e	3.32
4.91	5(e)	2	15	74.50	-6630.15	-575.75	-708.36	0.00	0.00	-6635.53	-3184.69	0.00	0.19	1-2	180.00	10.00	-2.37	N/e	4.50

Staffe - Verifiche armatura esistente

X0 <m>	X1 <m>	Staff.	CC	bw _y <m>	Vsdu _y <kg>	Vrdu _y <kg>	Vcd _y <kg>	Vwd _y <kg>	bw _z <m>	Vsdu _z <kg>	Vrdu _z <kg>	Vcd _z <kg>	Vwd _z <kg>
0.00	3.92	ø8/18 2 br.	2	0.25	809.53	53223.80	7800.89	8570.49	0.50	134.55	48088.10	7048.17	3871.75
4.16	4.91	ø8/18 2 br.	7	0.25	2624.11	53223.80	7800.89	8570.49	0.50	223.03	48088.10	7048.17	3871.75

Pilastrata n. 23

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente

Xg	CC	El Sez. X	N	My	My ver.	Mz	Mz ver.	Nu	Myu	Mzu	x/d	Rott. α	ε _y	ε _c	TS	Sic.
<m>		<cm>	<kg>	<kgm>	<kgm>	<kgm>	<kgm>	<kg>	<kgm>	<kgm>		<grad>				
0.00	7(e)	1 7	0.00	-5426.83	0.00	0.00	0.00	108.54	-5426.89	0.00	2149.71	0.22 1-2	90.00	10.00	-2.88	N/e 19.81
3.92	7(e)	1 7	392.00	-5426.83	0.00	0.00	0.00	108.54	-5426.89	0.00	2149.71	0.22 1-2	90.00	10.00	-2.88	N/e 19.81

Pilastrata n. 24**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg	CC	El Sez. X	N	My	My ver.	Mz	Mz ver.	Nu	Myu	Mzu	x/d	Rott. α	ε _y	ε _c	TS	Sic.
<m>		<cm>	<kg>	<kgm>	<kgm>	<kgm>	<kgm>	<kg>	<kgm>	<kgm>		<grad>				
4.16	3(e)	2 4	0.00	-10077.70	445.17	646.72	0.00	0.00	-10081.10	3501.02	-0.00	0.21 1-2	0.00	10.00	-2.61	N/e 5.41
4.16	3(e)	2 4	0.00	-10077.70	445.17	646.72	0.00	0.00	-10081.10	3501.02	-0.00	0.21 1-2	0.00	10.00	-2.61	N/e 5.41
4.91	3(e)	2 4	74.50	-9751.80	709.09	904.12	0.00	0.00	-9754.80	3471.25	-0.00	0.21 1-2	0.00	10.00	-2.59	N/e 3.84

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente - controlli di stabilità

Xg	CC	El Sez. X	N	My	My ver.	Mz	Mz ver.	Nu	M1Rdy	M1Rdz	x/d	Rott. α	ε _y	ε _c	TS	Sic.
<m>		<cm>	<kg>	<kgm>	<kgm>	<kgm>	<kgm>	<kg>	<kgm>	<kgm>		<grad>				
0.00	3(e)	1 4	0.00	-11897.70	0.00	0.00	4191.99	4521.96	-11898.70	0.00	6553.81	0.20 1-2	90.00	10.00	-2.49	N/e 1.45
4.16	3(e)	1 4	416.00	-10077.70	445.17	724.66	0.00	0.00	-10081.10	2293.73	-0.00	0.21 1-2	0.00	10.00	-2.61	N/e 3.17

Dati per verifiche di stabilità

Xg	El I ₀	λ	λ*
<m>	<m>		
0.00	1	8.32	115.29 66.51
4.16	1	8.32	115.29 72.26
4.16	2	1.49	20.65 72.26
4.16	2	1.49	20.65 72.26
4.91	2	1.49	20.65 73.46

Staffe - Verifiche armatura esistente

X0	X1	Staff.	CC	bw _y	Vsdu _y	Vrdu _y	Vcd _y	Vwd _y	bw _z	Vsdu _z	Vrdu _z	Vcd _z	Vwd _z
<m>	<m>			<m>	<kg>	<kg>	<kg>	<kg>	<m>	<kg>	<kg>	<kg>	<kg>
0.00	4.16	ø8/18 2 br.	3	0.25	854.64	53223.80	7800.89	8570.49	0.50	354.26	48088.10	7048.17	3871.75
4.16	4.91	ø8/18 2 br.	3	0.25	854.64	53223.80	7800.89	8570.49	0.50	354.26	48088.10	7048.17	3871.75

Pilastrata n. 27**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg	CC	El Sez. X	N	My	My ver.	Mz	Mz ver.	Nu	Myu	Mzu	x/d	Rott. α	ε _y	ε _c	TS	Sic.
<m>		<cm>	<kg>	<kgm>	<kgm>	<kgm>	<kgm>	<kg>	<kgm>	<kgm>		<grad>				
4.16	1(e)	2 16	0.00	-5956.75	0.00	0.00	512.41	631.55	-5964.67	0.00	2196.09	0.23 1-2	90.00	10.00	-2.94	N/e 3.48
4.16	1(e)	2 16	0.00	-5956.75	0.00	0.00	512.41	631.55	-5959.55	0.00	2701.35	0.24 1-2	90.00	10.00	-3.23	N/e 4.28
4.91	5(e)	2 16	74.50	-5499.92	0.00	0.00	-2379.61	-2489.60	-5502.15	-0.00	-2662.47	0.24 1-2	270.00	10.00	-3.18	N/e 1.07

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente - controlli di stabilità

Xg <m>	CC	El	Sez.	X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	M1Rdy <kgm>	M1Rdz <kgm>	x/d	Rott. α <grad>	ε _y	ε _c	TS	Sic.
0.00	1(e)	1	5	0.00	-15986.90	-1514.96	-1958.33	0.00	0.00	-15986.90	-2260.54	0.01	0.21	1-2	180.00	10.00	-2.73	N/e 1.15
3.92	1(e)	1	5	392.00	-13928.90	1243.47	1629.77	0.00	0.00	-13933.10	2291.82	0.01	0.21	1-2	0.00	10.00	-2.58	N/e 1.41

Dati per verifiche di stabilità

Xg El I₀ λ λ*
<m> <m>

0.00 1 8.32 115.29 62.06

3.92 1 8.32 115.29 66.49

4.16 2 1.49 20.65 68.13

4.16 2 1.49 20.65 70.54

4.91 2 1.49 20.65 71.53

Staffe - Verifiche armatura esistente

X0 <m>	X1 <m>	Staff.	CC	bw _y <m>	Vsdu _y <kg>	Vrdu _y <kg>	Vcd _y <kg>	Vwd _y <kg>	bw _z <m>	Vsdu _z <kg>	Vrdu _z <kg>	Vcd _z <kg>	Vwd _z <kg>
0.00	3.92	ø8/18 2 br.	5	0.25	2083.19	64895.60	9511.61	10450.00	0.60	178.32	57705.80	8457.81	3871.75
4.16	4.91	ø8/18 2 br.	5	0.25	3760.73	24044.10	3524.09	3871.75	0.25	3.79	24044.10	3524.09	3871.75

Pilastrata n. 29**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	Sez.	X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	Myu <kgm>	Mzu <kgm>	x/d	Rott. α <grad>	ε _y	ε _c	TS	Sic.
4.16	3(e)	2	4	0.00	-9174.26	394.23	577.72	0.00	0.00	-9176.62	3418.39	-0.00	0.20	1-2	0.00	10.00	-2.54	N/e 5.92
4.16	3(e)	2	4	0.00	-9174.26	394.23	577.72	0.00	0.00	-9176.62	3418.39	-0.00	0.20	1-2	0.00	10.00	-2.54	N/e 5.92
4.91	3(e)	2	4	74.50	-8848.32	635.51	812.48	0.00	0.00	-8850.32	3388.50	-0.00	0.20	1-2	0.00	10.00	-2.52	N/e 4.17

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente - controlli di stabilità

Xg <m>	CC	El	Sez.	X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	M1Rdy <kgm>	M1Rdz <kgm>	x/d	Rott. α <grad>	ε _y	ε _c	TS	Sic.
0.00	3(e)	1	4	0.00	-10994.30	-953.05	-1257.96	0.00	0.00	-10998.40	-2280.26	0.00	0.21	1-2	180.00	10.00	-2.68	N/e 1.81
4.16	7(e)	1	4	416.00	-9948.43	379.98	655.88	0.00	0.00	-9951.65	2296.17	-0.00	0.21	1-2	0.00	10.00	-2.60	N/e 3.50

Dati per verifiche di stabilità

Xg El I₀ λ λ*
<m> <m>

0.00 1 8.32 115.29 66.87

4.16 1 8.32 115.29 72.73

4.16 2 1.49 20.65 72.73

4.16 2 1.49 20.65 72.73

4.91 2 1.49 20.65 73.95

Staffe - Verifiche armatura esistente

X0 <m>	X1 <m>	Staff.	CC	bw _{xy} <m>	Vsdu _{xy} <kg>	Vrdu _{xy} <kg>	Vcd _{xy} <kg>	Vwd _{xy} <kg>	bw _{yz} <m>	Vsdu _{yz} <kg>	Vrdu _{yz} <kg>	Vcd _{yz} <kg>	Vwd _{yz} <kg>
0.00	4.16	ø8/18 2 br.	2	0.25	606.05	53223.80	7800.89	8570.49	0.50	117.67	48088.10	7048.17	3871.75
0.00	4.16	ø8/18 2 br.	3	0.25	545.64	53223.80	7800.89	8570.49	0.50	323.87	48088.10	7048.17	3871.75
4.16	4.91	ø8/18 2 br.	2	0.25	606.05	53223.80	7800.89	8570.49	0.50	117.67	48088.10	7048.17	3871.75
4.16	4.91	ø8/18 2 br.	3	0.25	545.64	53223.80	7800.89	8570.49	0.50	323.87	48088.10	7048.17	3871.75

Pilastrata n. 36**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	Sez. X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	Myu <kgm>	Mzu <kgm>	x/d	Rott. α <grad>	ε _y	ε _c	TS	Sic.
0.00	1(e)	1	7	0.00	-3449.61	0.00	0.00	68.99	-3458.45	0.00	1977.04	0.21	1-2	90.00	10.00	-2.65	N/e 28.66
3.92	1(e)	1	7	392.00	-3449.61	0.00	0.00	68.99	-3458.45	0.00	1977.04	0.21	1-2	90.00	10.00	-2.65	N/e 28.66

Pilastrata n. 38**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	Sez. X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	Myu <kgm>	Mzu <kgm>	x/d	Rott. α <grad>	ε _y	ε _c	TS	Sic.
0.00	3(e)	1	7	0.00	-3035.41	0.00	0.00	60.71	-3043.51	0.00	1939.55	0.21	1-2	90.00	10.00	-2.59	N/e 31.95
3.92	3(e)	1	7	392.00	-3035.41	0.00	0.00	60.71	-3043.51	0.00	1939.55	0.21	1-2	90.00	10.00	-2.59	N/e 31.95

Pilastrata n. 41**Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente**

Xg <m>	CC	El	Sez. X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	Myu <kgm>	Mzu <kgm>	x/d	Rott. α <grad>	ε _y	ε _c	TS	Sic.
4.16	3(e)	2	16	0.00	-6407.53	0.00	628.02	756.17	-6408.00	0.00	2234.24	0.23	1-2	90.00	10.00	-2.99	N/e 2.95
4.16	3(e)	2	16	0.00	-6407.53	0.00	628.02	756.17	-6408.00	0.00	2234.24	0.23	1-2	90.00	10.00	-2.99	N/e 2.95
4.91	3(e)	2	16	74.50	-6244.56	0.00	1878.44	2003.33	-6244.85	0.00	2220.20	0.23	1-2	90.00	10.00	-2.97	N/e 1.11

Stato Limite Ultimo - Ferri longitudinali - Verifiche armatura esistente - controlli di stabilità

Xg <m>	CC	El	Sez. X <cm>	N <kg>	My <kgm>	My ver. <kgm>	Mz <kgm>	Mz ver. <kgm>	Nu <kg>	M1Rdy <kgm>	M1Rdz <kgm>	x/d	Rott. α <grad>	ε _y	ε _c	TS	Sic.
0.00	3(e)	1	5	0.00	-8591.53	0.00	-6354.20	-6592.47	-8592.70	-0.00	-8094.53	0.17	1-2	270.00	10.00	-1.98	N/e 1.23
4.16	2(e)	1	5	416.00	-5351.55	527.95	676.37	0.00	-5353.33	2396.34	0.02	0.17	1-2	0.00	10.00	-2.09	N/e 3.54

Dati per verifiche di stabilità

Xg <m>	El	l ₀ <m>	λ	λ*
0.00	1	8.32	115.29	84.66

4.16 1 8.32 115.29 98.03
 4.16 2 1.49 20.65 65.69
 4.16 2 1.49 20.65 65.69
 4.91 2 1.49 20.65 66.54

Staffe - Verifiche armatura esistente

X0	X1	Staff.	CC	bw _y	Vsdu _y	Vrdu _y	Vcd _y	Vwd _y	bw _z	Vsdu _z	Vrdu _z	Vcd _z	Vwd _z
<m>	<m>			<m>	<kg>	<kg>	<kg>	<kg>	<m>	<kg>	<kg>	<kg>	<kg>
0.00	4.16	ø8/18 2 br.3	0.25	1678.42	64895.60	9511.61	10450.00	0.60	279.68	57705.80	8457.81	3871.75	
4.16	4.91	ø8/18 2 br.3	0.25	1678.42	24044.10	3524.09	3871.75	0.25	279.68	24044.10	3524.09	3871.75	

Computo armature, cls e acciaio nelle travi

Trave	ø8	ø10	ø12	ø14	ø16	ø18	ø20	ø24	tot.	Vol.	ρ
										<mc>	<kg/mc>
101	51.40	77.12	75.44	0.00	0.00	95.88	116.88	0.00	416.72	4.95	84.18
102	24.70	0.00	26.62	0.00	0.00	0.00	0.00	0.00	51.32	0.67	76.38
103	51.40	77.12	75.43	0.00	0.00	95.88	116.88	0.00	416.71	4.95	84.19
104	56.28	50.98	64.34	0.00	0.00	53.93	54.26	113.64	393.42	4.13	95.38
107	56.28	50.98	64.34	0.00	0.00	75.91	24.66	113.64	385.80	4.13	93.53
108	33.44	0.00	26.74	19.33	0.00	0.00	0.00	0.00	79.52	0.88	90.12
111	43.74	0.00	24.16	26.59	0.00	41.95	0.00	0.00	136.43	1.19	114.43
118	6.69	0.00	7.98	0.00	0.00	0.00	0.00	0.00	14.67	0.19	76.42
119	27.79	0.00	36.54	0.00	0.00	0.00	0.00	0.00	64.32	0.74	87.04
120	11.32	0.00	16.86	0.00	0.00	0.00	0.00	0.00	28.18	0.33	86.58
205	121.51	0.00	112.90	0.00	0.00	241.71	59.19	0.00	535.31	6.02	88.92
211	68.54	0.00	57.63	0.00	0.00	89.89	34.84	0.00	250.91	3.08	81.46
217	63.87	0.00	56.37	0.00	0.00	117.86	27.13	0.00	265.22	3.08	86.11
220	121.51	0.00	112.90	0.00	0.00	247.05	27.13	0.00	508.59	6.02	84.48
501	0.00	389.48	202.42	0.00	0.00	0.00	0.00	0.00	591.90	12.00	49.32
502	0.00	195.94	65.25	0.00	77.41	0.00	0.00	0.00	338.60	5.60	60.47
503	0.00	389.47	202.42	0.00	0.00	0.00	0.00	0.00	591.90	12.00	49.33
504	0.00	333.77	131.97	0.00	106.18	0.00	0.00	0.00	571.92	10.00	57.19
505	0.00	557.81	250.81	0.00	71.03	0.00	0.00	0.00	879.64	17.20	51.14
507	0.00	333.77	133.17	0.00	54.45	0.00	0.00	0.00	521.39	10.00	52.14
509	0.00	228.34	0.00	0.00	212.89	0.00	0.00	0.00	441.23	6.25	70.58
511	0.00	357.87	114.97	0.00	128.67	0.00	0.00	0.00	601.51	10.40	57.84
517	0.00	284.72	102.54	0.00	126.90	0.00	0.00	0.00	514.16	8.80	58.43
518	0.00	14.98	15.71	0.00	21.96	114.42	0.00	0.00	167.07	1.36	122.85
519	0.00	219.70	67.98	0.00	86.88	0.00	0.00	0.00	374.56	6.16	60.82
520	0.00	557.81	261.44	0.00	68.66	0.00	0.00	0.00	887.90	17.20	51.62

Totale 738.48 4119.84 2306.92 45.92 955.01 1174.49 460.97 227.28 10028.90 157.32 63.75

Computo armature, cls e acciaio nei pilastri

Pilastro	ø8	ø12	ø14	tot.	Vol.	ρ
					<mc>	<kg/mc>

Pilastrate 1-5-31-35	58.54	139.38	0.00	197.93	2.08	95.16
Pilastrate 2-3-4-12-13-19-20-25-26-32-33-34	126.67	278.77	0.00	405.44	4.37	92.82
Pilastrata 6	19.52	12.44	39.69	71.66	0.67	106.86
Pilastrate 7-9-11-14-16-28-30-37-39-40	206.23	174.86	337.97	719.06	6.13	117.28
Pilastrata 8	13.91	29.43	0.00	43.35	0.43	101.00
Pilastrata 10	11.04	22.46	0.00	33.49	0.36	92.01
Pilastrata 15	9.22	22.46	0.00	31.68	0.26	121.83
Pilastrata 17	21.01	16.42	35.54	72.97	0.67	108.83
Pilastrata 18	19.29	44.15	0.00	63.44	0.61	103.47
Pilastrata 21	9.22	22.46	0.00	31.68	0.26	121.83
Pilastrata 22	19.29	44.15	0.00	63.44	0.61	103.47
Pilastrata 23	9.22	22.46	0.00	31.68	0.26	121.83
Pilastrata 24	20.62	41.22	0.00	61.84	0.61	100.86
Pilastrata 27	19.52	35.35	7.26	62.14	0.67	92.66
Pilastrata 29	20.62	41.22	0.00	61.84	0.61	100.86
Pilastrata 36	9.22	22.46	0.00	31.68	0.26	121.83
Pilastrata 38	9.22	22.46	0.00	31.68	0.26	121.83
Pilastrata 41	21.01	41.44	0.00	62.45	0.67	93.12
Totale	623.40	1033.57	420.46	2077.43	19.81	104.88

Computo legno

Simbologia

Cod. = Codice

Lun. = Lunghezza

Peso = Peso

Sup. = Superficie

Cod.	Lun.	Peso	Sup.
	<mm>	<kg>	<mq>
BxH= 18x92 98015	7466.40	215.63	
Totali	98015	7466.40	215.63

Distinta Legno

(Lunghezze arrotondate a multipli di 1 mm)

Simbologia

Cod. = Codice

Lun. = Lunghezza

Pez. = Numero pezzi

Cod.	Lun.	Pez.
	<mm>	
BxH= 18x92 4112	1	
BxH= 18x92 4103	1	

BxH= 18x92 3667 15

BxH= 18x92 3600 2

BxH= 18x92 3500 4

BxH= 18x92 3400 4

In fase di definizione dell'esecutivo sono state apportate modifiche che non compromettono la validità delle verifiche allegate.