Amministrazione Comunale di Massa Fermana

Comune di Massa Fermana (FM)

AMPLIAMENTO CIVICO CIMITERO
PRIMO STRALCIO
VIA MONTE STALIO - LOC. MADONNETTA

PROGETTO DEFINITIVO-ESECUTIVO

PROGETTO STRUTTURALE

RELAZIONE DI CALCOLO STRUTTURALE CORPO C E 1 STRALCIO

Progettisti :

- ARCH. CLAUDIO AGOSTINELLI
- ING. ANDREA SCHIAVONI

Collaboratore:

-ING. FEDERICO SABBATINI

FASC. N.		DATA
06-ST-RC2		Luglio 2018

AMPLIAMENTO CIMITERO CIVICO – CORPO C

ELENCO DOCUMENTAZIONE

PROGETTO COMPLETO

- INPUT ED OUTPUT STRUTTURALI GENERALI
- VERIFICA PI DELTA SLD GENERALI
- VERIFICA PI DELTA SLV GENERALI
- VERIFICA SPOSTAMENTI DIFFERENZIALI GENERALI
- VERIFICA NODI GENERALI GENERALI
- VERIFICA PALI DI FONDAZIONE GENERALI
- VERIFICA SETTI C.A. GENERALI
- VERIFICA SOLETTA DI BASE C.A. GENERALI
- VERIFICA SOLETTA C.A. DI COPERTURA GENERALI
- VERIFICA TRAVI C.A. GENERALI
- VERIFICA PILASTRI C.A GENERALI

PROGETTO PRIMO STRALCIO

- VERIFICA NODI GENERALI PRIMO STRALCIO
- VERIFICA SETTI C.A. PRIMO STRALCIO
- VERIFICA TRAVI C.A. PRIMO STRALCIO
- VERIFICA PILASTRI C.A PRIMO STRALCIO

PROGETTO E VERIFICA SOLAIO DI COPERTURA

VERIFICA ELEMENTI SECONDARI

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.

- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Indice

Dati relativi ai nodi della struttura

Convenzioni adottate

La terna di riferimento generale è destrorsa.

I nodi vengono numerati, con riferimento a una sezione orizzontale, da sinistra a destra, dal basso verso l'alto e per quote crescenti.

L'impalcato di appartenenza di un nodo è definito, in generale, dalla prima delle tre cifre che ne definiscono il numero, possono tuttavia presentarsi casi in cui si hanno più di 100 nodi per solaio nel qual caso il solaio di appartenenza è specificato dall'ultimo valore stampato nella riga dei dati relativi al nodo.

La maschera dei vincoli è costituita dai valori 0 e 1. Il valore 1 indica che per il nodo in riferimento il grado di libertà correlativo è soppresso mentre il valore 0 indica che è libero.

Nel caso di edifici civili multipiano l'asse *z* generale coincide con l'asse verticale rivolto verso l'alto.

Nodi

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
1	0.00	0.00	0.00	0	0	0	0	0	0	0
2	2.75	0.00	0.00	0	0	0	0	0	0	0
3	5.15	0.00	0.00	0	0	0	0	0	0	0
4	7.35	0.00	0.00	0	0	0	0	0	0	0
5	0.00	2.15	0.00	0	0	0	0	0	0	0
6	2.75	2.15	0.00	0	0	0	0	0	0	0

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
7	5.15	2.15	0.00	0	0	0	0	0	0	0
8	7.35	2.15	0.00	0	0	0	0	0	0	0
9	0.00	4.40	0.00	0	0	0	0	0	0	0
10	2.75	4.40	0.00	0	0	0	0	0	0	0
11	5.15	4.40	0.00	0	0	0	0	0	0	0
12	7.35	4.40	0.00	0	0	0	0	0	0	0
13	7.43	5.37	0.00	0	0	0	0	0	0	0
14	5.30	5.93	0.00	0	0	0	0	0	0	0
15	7.80	6.27	0.00	0	0	0	0	0	0	0
16	3.03	6.54	0.00	0	0	0	0	0	0	0
17	8.39	7.04	0.00	0	0	0	0	0	0	0
18	0.38	7.25	0.00	0	0	0	0	0	0	0
19	5.89	7.37	0.00	0	0	0	0	0	0	0
20	9.16	7.63	0.00	0	0	0	0	0	0	0
21	10.06	8.00	0.00	0	0	0	0	0	0	0
22	11.03	8.13	0.00	0	0	0	0	0	0	0
23	3.86	8.54	0.00	0	0	0	0	0	0	0
24	6.84	8.59	0.00	0	0	0	0	0	0	0
25	8.06	9.54	0.00	0	0	0	0	0	0	0
26	1.48	9.92	0.00	0	0	0	0	0	0	0
27	9.50	10.13	0.00	0	0	0	0	0	0	0
28	5.18	10.25	0.00	0	0	0	0	0	0	0
29	11.03	10.33	0.00	0	0	0	0	0	0	0
30	6.89	11.57	0.00	0	0	0	0	0	0	0
31	3.23	12.20	0.00	0	0	0	0	0	0	0
32	8.89	12.40	0.00	0	0	0	0	0	0	0
33	11.03	12.68	0.00	0	0	0	0	0	0	0
34	5.51	13.95	0.00	0	0	0	0	0	0	0
35	8.18	15.05	0.00	0	0	0	0	0	0	0
36	11.03	15.43	0.00	0	0	0	0	0	0	0
37	0.00	0.00	3.80	0	0	0	0	0	0	0
38	2.75	0.00	3.80	0	0	0	0	0	0	0
39	0.00	2.15	3.80	0	0	0	0	0	0	0
40	2.75	2.15	3.80	0	0	0	0	0	0	0
41	0.00	4.40	3.80	0	0	0	0	0	0	0
42	2.75	4.40	3.80	0	0	0	0	0	0	0
43	3.03	6.54	3.80	0	0	0	0	0	0	0
44	0.38	7.25	3.80	0	0	0	0	0	0	0
45	3.86	8.54	3.80	0	0	0	0	0	0	0
46	1.48	9.92	3.80	0	0	0	0	0	0	0
47	5.18	10.25	3.80	0	0	0	0	0	0	0
48	6.89	11.57	3.80	0	0	0	0	0	0	0
49	3.23	12.20	3.80	0	0	0	0	0	0	0
50	8.89	12.40	3.80	0	0	0	0	0	0	0
51	11.03	12.68	3.80	0	0	0	0	0	0	0
52	5.51	13.95	3.80	0	0	0	0	0	0	0
53	8.18	15.05	3.80	0	0	0	0	0	0	0
54	11.03	15.43	3.80	0	0	0	0	0	0	0
101	7.45	2.15	5.75	0	0	0	0	0	0	1
102	2.75	0.00	4.52	0	0	0	0	0	0	1
103	5.15	0.00	5.15	0	0	0	0	0	0	1
104	7.45	4.40	5.75	0	0	0	0	0	0	1
105	7.45	0.00	5.75	0	0	0	0	0	0	1
106	2.75	2.15	4.52	0	0	0	0	0	0	1
107	5.15	2.15	5.15	0	0	0	0	0	0	1
108	7.57	5.33	5.75	0	0	0	0	0	0	1

Nodo	x [m]	y [m]	z [m]	Ux	Uy	Uz	Rx	Ry	Rz	Solaio
109	7.93	6.19	5.75	0	0	0	0	0	0	1
110	2.75	4.40	4.52	0	0	0	0	0	0	1
111	5.15	4.40	5.15	0	0	0	0	0	0	1
112	8.50	6.93	5.75	0	0	0	0	0	0	1
113	9.24	7.50	5.75	0	0	0	0	0	0	1
114	5.30	5.93	5.15	0	0	0	0	0	0	1
115	10.10	7.86	5.75	0	0	0	0	0	0	1
116	3.03	6.54	4.52	0	0	0	0	0	0	1
117	11.03	7.98	5.75	0	0	0	0	0	0	1
119	5.89	7.36	5.15	0	0	0	0	0	0	1
123	3.86	8.54	4.52	0	0	0	0	0	0	1
124	6.84	8.59	5.15	0	0	0	0	0	0	1
125	8.06	9.54	5.15	0	0	0	0	0	0	1
127	9.50	10.13	5.15	0	0	0	0	0	0	1
128	5.18	10.25	4.52	0	0	0	0	0	0	1
129	11.03	10.33	5.15	0	0	0	0	0	0	1
130	6.89	11.57	4.52	0	0	0	0	0	0	1
132	8.89	12.40	4.52	0	0	0	0	0	0	1
133	11.03	12.68	4.52	0	0	0	0	0	0	1

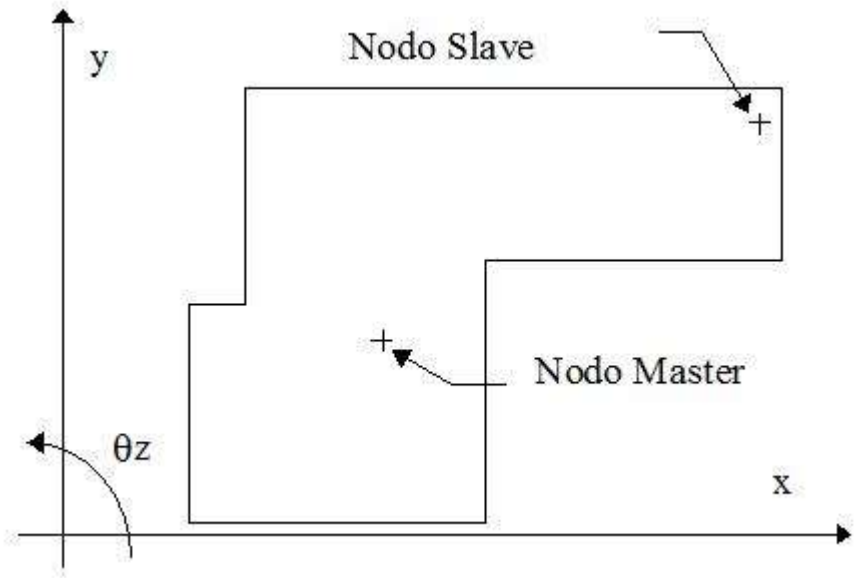
Dati relativi ai solai della struttura

Convenzioni adottate

Nel seguito con la dizione *solai* **non** sono individuati i solai che effetivamente verranno realizzati nella struttura bensi gli orizzonatamenti ai quali appartengono nodi per i quali vale l'ipotesi di impalcato infinitamente rigido.

Seguendo tale ipotesi di calcolo, le componenti di spostamento del singolo nodo di impalcato vengono in parte riferite a quelle di un nodo *master*, solitamente coincidente con il centro di massa dell'impalcato. In particolare le componenti di spostamento nodale sono cosi definite:

Componente di spostamento	espressa da
U_x	$U_{xMaster} - \theta_{zMaster} \times (Y_{Master} - Y_{Nodo})$
U_y	$U_{yMaster} + \theta_{zMaster} \times (X_{Master} - X_{Nodo})$
U_z	U_{zNodo}
θ_x	θ_{xNodo}
θ_y	θ_{yNodo}
θ_z	$\theta_{zMaster}$



Solaio	x [m]	y [m]	z [m]	Massa [UTM]	Jpolare [UTM m²]
1	6.33	6.59	5.01	5152.8	94162.4

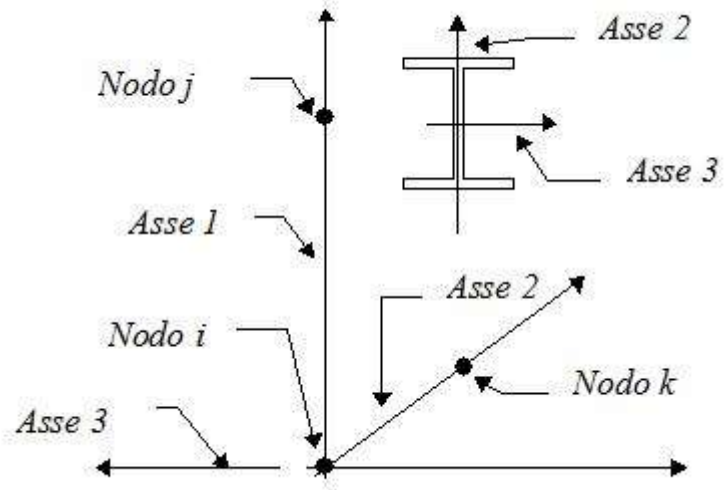
Elementi tipo pilastro

Convenzioni adottate

Ogni elemento tipo pilastro viene identificato da:

- Il nodo iniziale **i**;
- Il nodo finale **j**;
- Il nodo **k** che definisce l'orientamento nello spazio della terna riferimento locale dell'elemento.

La terna di riferimento locale del pilastro risulta quindi essere cosi disposta:



Sistema di riferimento locale

Vengono riportati i valori di efficacia dei vincoli flessionali alle estremità dell'elemento (variabili fra lo **0%** e il **100%**), nei due piani **1-2** e **1-3** del pilastro in corrispondenza dei nodi, dando quindi la possibilità di considerare aste non perfettamente incastrate alle estremità (coefficienti **Vi12 - Vj12 - Vi13 - Vj13**).

In generale, se non diversamente disposto, l'asse 2 coincide, per i pilastri, con l'asse **y** globale e pertanto la disposizione della sezione coincide con quella che si avrebbe in una vista in pianta.

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm²]	v	alfa [1/°C]	Peso Specifico [kg/m³]	Commento
1	300000.0	0.120	0.000012	2500.0	Calcestruzzo
2	2100000.0	0.330	0.000012	7850.0	Acciaio

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	Rett.	B= 25 H= 35 [cm] 25X35

Caratteristiche Inerziali:

Sezione	Materiale	Area [cm²]	Jt [cm^4]	J2 [cm^4]	J3 [cm^4]	J23 [cm^4]	Xx	Xy
1	1	875.00	97809	89323	45573	0	1.2	1.2

Dal Nodo	Al Nodo	Nodo k	Luce [m]	Materiale	Sezione	Fixity factors								Rigid-end [m]	
						V_{i12}	V_{j12}	V_{i13}	V_{j13}	N_i	N_j	T_i	T_j	d_{ri}	d_{rj}
3	103	10006	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00
7	107	10025	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00
11	111	10025	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00
14	114	10026	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00
19	119	10024	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00
24	124	10027	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00
25	125	10028	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00
27	127	10029	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00
29	129	10030	5.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00

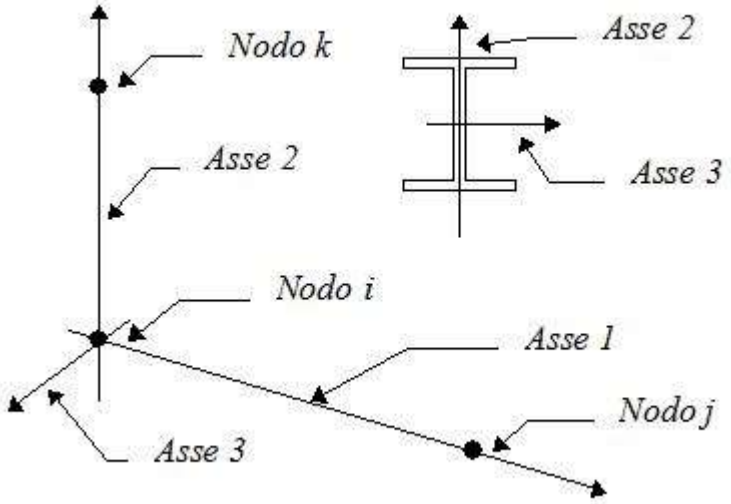
Elementi tipo trave

Convenzioni adottate

Ogni elemento tipo trave viene identificato da:

- Il nodo iniziale **i**;
- Il nodo finale **j**;
- Il nodo **k** che definisce l'orientamento nello spazio della terna riferimento locale dell'elemento.

La terna di riferimento locale della trave risulta essere così disposta:



Vengono riportati i valori di efficacia dei vincoli alle estreità dello elemento (variabili fra 0 e 100%), nei due piani **1-2** e **1-3** della trave in corrispondenza dei nodi, dando quindi la possibilità di considerare aste non perfettamente incastrate (coefficienti **Vi12, Vj12, Vi13, Vj13**).

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm²]	v	alfa [1/°C]	Peso Specifico [kg/m³]	Commento
1	300000.0	0.120	0.000012	2500.0	Calcestruzzo
2	2100000.0	0.330	0.000012	7850.0	Acciaio

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	Rett.	B= 25 H= 21 [cm] 25X21
2	1	Rett.	B= 25 H= 40 [cm] 25X40
4	1	Rett.	B= 60 H= 50 [cm] 60X50

Caratteristiche Inerziali:

Sezione	Materiale	Area [cm²]	Jt [cm^4]	J2 [cm^4]	J3 [cm^4]	J23 [cm^4]	Xx	Xy
1	1	525.00	36789	19294	27344	0	1.2	1.2
2	1	1000.00	123101	133333	52083	0	1.2	1.2
4	1	3000.00	1198613	625000	900000	0	1.2	1.2

Dal Nodo	Al Nodo	Nodo k	Luce [m]	Materiale	Sezione	Fixity factors								Rigid-end [m]	
						V_{i12}	V_{j12}	V_{i13}	V_{j13}	N_i	N_j	T_i	T_j	d_{ri}	d_{rj}
2	1	10001	2.75	1	4	100	100	100	100	100	100	100	100	0.00	0.00

3	2	10001	2.40	1	4	100	100	100	100	100	100	100	100	0.00	0.00
5	6	10002	2.75	1	4	100	100	100	100	100	100	100	100	0.00	0.00
6	7	10002	2.40	1	4	100	100	100	100	100	100	100	100	0.00	0.00
9	10	10006	2.75	1	4	100	100	100	100	100	100	100	100	0.00	0.00
10	11	10006	2.40	1	4	100	100	100	100	100	100	100	100	0.00	0.00
1	5	10017	2.15	1	4	100	100	100	100	100	100	100	100	0.00	0.00
5	9	10017	2.25	1	4	100	100	100	100	100	100	100	100	0.00	0.00
2	6	10001	2.15	1	4	100	100	100	100	100	100	100	100	0.00	0.00
6	10	10001	2.25	1	4	100	100	100	100	100	100	100	100	0.00	0.00
7	3	10005	2.15	1	4	100	100	100	100	100	100	100	100	0.00	0.00
11	7	10005	2.25	1	4	100	100	100	100	100	100	100	100	0.00	0.00
33	29	10016	2.35	1	4	100	100	100	100	100	100	100	100	0.00	0.00
36	33	10016	2.75	1	4	100	100	100	100	100	100	100	100	0.00	0.00
18	16	10007	2.75	1	4	100	100	100	100	100	100	100	100	0.00	0.00
16	14	10013	2.35	1	4	100	100	100	100	100	100	100	100	0.00	0.00
23	26	10014	2.75	1	4	100	100	100	100	100	100	100	100	0.00	0.00
19	23	10008	2.35	1	4	100	100	100	100	100	100	100	100	0.00	0.00
28	31	10003	2.75	1	4	100	100	100	100	100	100	100	100	0.00	0.00
24	28	10009	2.35	1	4	100	100	100	100	100	100	100	100	0.00	0.00
30	34	10010	2.75	1	4	100	100	100	100	100	100	100	100	0.00	0.00
25	30	10010	2.35	1	4	100	100	100	100	100	100	100	100	0.00	0.00
32	35	10004	2.75	1	4	100	100	100	100	100	100	100	100	0.00	0.00
27	32	10004	2.35	1	4	100	100	100	100	100	100	100	100	0.00	0.00
32	33	10004	2.16	1	4	100	100	100	100	100	100	100	100	0.00	0.00
30	32	10015	2.16	1	4	100	100	100	100	100	100	100	100	0.00	0.00
28	30	10003	2.16	1	4	100	100	100	100	100	100	100	100	0.00	0.00
23	28	10014	2.16	1	4	100	100	100	100	100	100	100	100	0.00	0.00
16	23	10013	2.16	1	4	100	100	100	100	100	100	100	100	0.00	0.00
10	16	10012	2.16	1	4	100	100	100	100	100	100	100	100	0.00	0.00
14	11	10007	1.54	1	4	100	100	100	100	100	100	100	100	0.00	0.00
19	14	10007	1.55	1	4	100	100	100	100	100	100	100	100	0.00	0.00
24	19	10008	1.55	1	4	100	100	100	100	100	100	100	100	0.00	0.00
25	24	10009	1.55	1	4	100	100	100	100	100	100	100	100	0.00	0.00
27	25	10011	1.55	1	4	100	100	100	100	100	100	100	100	0.00	0.00
29	27	10000	1.55	1	4	100	100	100	100	100	100	100	100	0.00	0.00
35	36	10023	2.88	1	4	100	100	100	100	100	100	100	100	0.00	0.00
34	35	10022	2.88	1	4	100	100	100	100	100	100	100	100	0.00	0.00
31	34	10021	2.88	1	4	100	100	100	100	100	100	100	100	0.00	0.00
26	31	10020	2.88	1	4	100	100	100	100	100	100	100	100	0.00	0.00
18	26	10019	2.88	1	4	100	100	100	100	100	100	100	100	0.00	0.00
9	18	10018	2.88	1	4	100	100	100	100	100	100	100	100	0.00	0.00
102	103	10031	2.48	1	1	100	100	100	100	100	100	100	100	0.00	0.00
106	107	10002	2.48	1	1	100	100	100	100	100	100	100	100	0.00	0.00
116	114	10013	2.43	1	1	100	100	100	100	100	100	100	100	0.00	0.00
130	125	10015	2.43	1	1	100	100	100	100	100	100	100	100	0.00	0.00
133	129	10016	2.43	1	1	100	100	100	100	100	100	100	100	0.00	0.00
123	119	10014	2.43	1	1	100	100	100	100	100	100	100	100	0.00	0.00
128	124	10003	2.43	1	1	100	100	100	100	100	100	100	100	0.00	0.00
132	127	10004	2.43	1	1	100	100	100	100	100	100	100	100	0.00	0.00
110	111	10012	2.48	1	1	100	100	100	100	100	100	100	100	0.00	0.00
102	106	10012	2.15	1	1	100	100	100	100	100	100	100	100	0.00	0.00
106	110	10012	2.25	1	1	100	100	100	100	100	100	100	100	0.00	0.00
103	107	10005	2.15	1	2	100	100	100	100	100	100	100	100	0.00	0.00
107	111	10005	2.25	1	2	100	100	100	100	100	100	100	100	0.00	0.00
125	127	10010	1.55	1	2	100	100	100	100	100	100	100	100	0.00	0.00
110	116	10013	2.16	1	1	100	100	100	100	100	100	100	100	0.00	0.00
119	124	10008	1.55	1	2	100	100	100	100	100	100	100	100	0.00	0.00
124	125	10009	1.55	1	2	100	100	100	100	100	100	100	100	0.00	0.00

128	130	10015	2.16	1	1	100	100	100	100	100	100	100	100	0.00	0.00
130	132	10015	2.16	1	1	100	100	100	100	100	100	100	100	0.00	0.00
132	133	10016	2.16	1	1	100	100	100	100	100	100	100	100	0.00	0.00
116	123	10014	2.16	1	1	100	100	100	100	100	100	100	100	0.00	0.00
123	128	10014	2.16	1	1	100	100	100	100	100	100	100	100	0.00	0.00
111	114	10006	1.54	1	2	100	100	100	100	100	100	100	100	0.00	0.00
127	129	10011	1.55	1	2	100	100	100	100	100	100	100	100	0.00	0.00
114	119	10007	1.55	1	2	100	100	100	100	100	100	100	100	0.00	0.00

Pali o gruppi di pali di fondazione

Convenzioni adottate

Il *palo* o il *gruppo di pali* di fondazione vengono schematizzati nel codice di calcolo assimilandoli ad un elemento *boundary*, agente nel nodo definito dall'operatore, ed in grado di reagire lungo le sei componenti di spostamento possibili per il nodo.

La matrice di rigidezza dell'elemento *palo* o *gruppo di pali* risulta pertanto essere cosi composta:

	U_x	U_y	U_z	R_x	R_y	R_z
U_x	K_{UxUx}	K_{UxUy}	K_{UxUz}	K_{UxRx}	K_{UxRy}	K_{UxRz}
U_y		K_{UyUy}	K_{UyUz}	K_{UyRx}	K_{UyRy}	K_{UyRz}
U_z			K_{UzUz}	K_{UzRx}	K_{UzRy}	K_{UzRz}
R_x				K_{RxRx}	K_{RxRy}	K_{RxRz}
R_y		simm.			K_{RyRy}	K_{RyRz}
R_z						K_{RzRz}

Tale matrice può essere definita direttamente dall'operatore ovvero calcolata con l'ausilio del programma *Pali*. In ogni caso il codice di calcolo si limita ad assemblare la matrice, assumendo che la stessa sia già definita nel sistema di riferimento gloabale, ed a ottenere le sei componenti di sollecitazioni ad essa associate.

La matrice è riferita ad una terna di riferimento destrorsa.

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	d:\Andrea\Desktop\Ampliamento cimitero Massa fermana 28-05-2018\Palo2.wpa		

Caratteristiche inerziali delle sezioni:

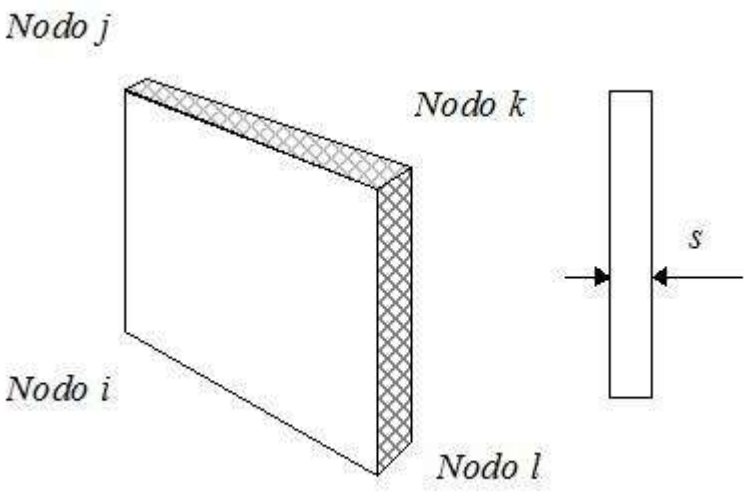
Sezione	Tipo	Ktx [kg/m]	Kty [kg/m]	Ktz [kg/m]	Krx [kgm]	Kmy [kgm]	Kmz [kgm]
1	d:\Andrea\Desktop\Ampliamento cimitero Massa fermana 28-05-2018\Palo2.wpa						
		3.3e+06	0.0e+00	-1.7e-09	0.0e+00	-6.3e+06	0.0e+00
		0.0e+00	3.3e+06	0.0e+00	6.3e+06	0.0e+00	2.8e-10
		-1.7e-09	0.0e+00	3.0e+07	0.0e+00	5.4e-10	0.0e+00
		0.0e+00	6.3e+06	0.0e+00	1.9e+07	0.0e+00	8.4e-10
		-6.3e+06	0.0e+00	5.4e-10	0.0e+00	1.9e+07	0.0e+00
		0.0e+00	2.8e-10	0.0e+00	8.4e-10	0.0e+00	1.9e+06

Nodo	Sezione
1	1
2	1
3	1
5	1
6	1
7	1
9	1
10	1
11	1
14	1
16	1
18	1
19	1
23	1
24	1
25	1
26	1
27	1
28	1
29	1
30	1
31	1
32	1
33	1
34	1
35	1
36	1

Elementi setto

Convenzioni adottate

L'elemento setto viene identificato mediante i quattro nodi (**i, j, k, l**) di bordo.



Numerazione dei nodi cui fa capo l'elemento

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm²]	ν	alfa [1/°C]	Peso Specifico [kg/m³]	Commento
1	300000.0	0.120	0.000012	2500.0	Calcestruzzo
2	2100000.0	0.330	0.000012	7850.0	Acciaio

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	Muro	s= 20 [cm] SETTO S=20

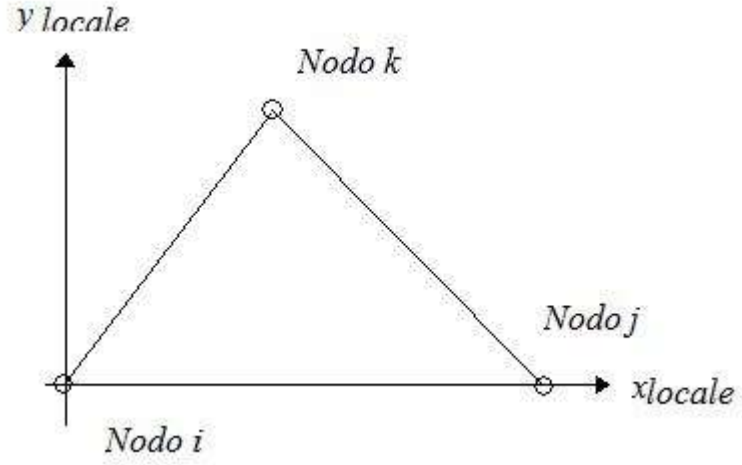
Nodo i	Nodo j	Nodo k	Nodo l	Materiale	Sezione
2	38	37	1	1	1
1	37	39	5	1	1
6	40	39	5	1	1
5	39	41	9	1	1
18	44	41	9	1	1
10	42	41	9	1	1
16	43	44	18	1	1
26	46	44	18	1	1
26	46	45	23	1	1
31	49	46	26	1	1
31	49	47	28	1	1
30	48	52	34	1	1
34	52	49	31	1	1
35	53	50	32	1	1
36	54	51	33	1	1
35	53	52	34	1	1
36	54	53	35	1	1

Elementi triangolari

Convenzioni adottate

L'elemento trinangolare è individuato tramite il numero dei nodi di vertice dello stesso.

Gli assi del sistema di riferimento locale risultano così disposti:



- L'asse $\mathbf{x}_{locale}$ ha direzione parallela alla retta congiungente i nodi **i** e **j**, è passante per i medesimi nodi ed ha verso positivo da **i** a **j**.
- L'asse $\mathbf{y}_{locale}$ è ortogonale all'asse $\mathbf{x}_{locale}$, passa per il nodo **i** ed ha verso positivo dalla parte del nodo **k**.
- L'asse $\mathbf{z}_{locale}$ è ottenuto per prodotto vettoriale fra $\mathbf{x}_{locale}$ e $\mathbf{y}_{locale}$.

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm²]	v	alfa [1/°C]	Peso Specifico [kg/m³]	Commento
1	300000.0	0.120	0.000012	2500.0	Calcestruzzo
2	2100000.0	0.330	0.000012	7850.0	Acciaio

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
1	1	Mesh isotropa	s= 25 [cm] SETTO TRIANGOLARE

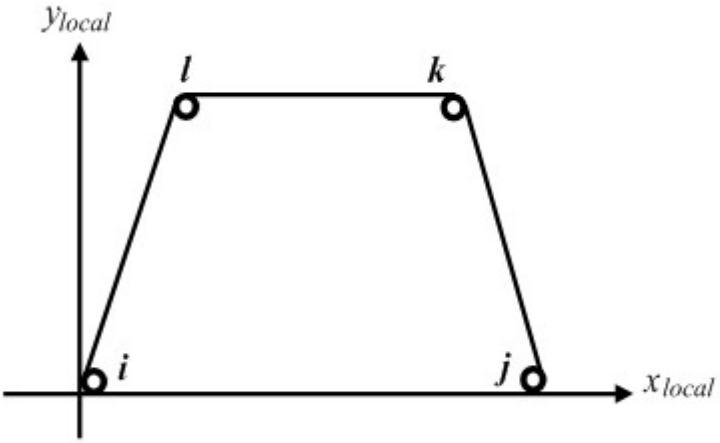
Nodo 1	Nodo 2	Nodo 3	Materiale	Sezione
128	47	49	1	1
53	132	50	1	1
46	45	123	1	1
41	110	42	1	1
39	40	106	1	1
44	43	116	1	1
52	130	48	1	1
54	133	51	1	1
37	38	102	1	1

Elementi a 4 nodi

Convenzioni adottate

L'elemento a 4 nodi è individuato tramite il numero dei quattro nodi di vertice dello stesso.

Gli assi del sistema di riferimento locale risultano così disposti:



- L'asse $\mathbf{x}_{locale}$ ha direzione parallela alla retta congiungente i nodi **i** e **j**, è passante per i medesimi nodi ed ha verso positivo da **i** a **j**.
- L'asse $\mathbf{y}_{locale}$ è ortogonale all'asse $\mathbf{x}_{locale}$, passa per il nodo **i** ed ha verso positivo dalla parte del nodo **l**.
- L'asse $\mathbf{z}_{locale}$ è ottenuto per prodotto vettoriale fra $\mathbf{x}_{locale}$ e $\mathbf{y}_{locale}$.

Caratteristiche dei Materiali:

Tipo	Modulo Elastico [kg/cm²]	ν	alfa [1/°C]	Peso Specifico [kg/m³]	Commento
1	300000.0	0.120	0.000012	2500.0	Calcestruzzo
2	2100000.0	0.330	0.000012	7850.0	Acciaio

Sezioni Impiegate:

Sezione	Materiale	Tipo di Sezione	Parametri Dimensionali Commenti
2	1	Mesh isotropa	s= 20 [cm] SOLETTA COPERTURA
3	1	Mesh isotropa	s= 35 [cm] PLATEA FONDAZIONE
4	1	Mesh isotropa	s= 35 [cm] PLATEA FONDAZIONE ESTERNA

Nodo i	Nodo j	Nodo k	Nodo l	Materiale	Sezione
3	4	8	7	1	4
2	3	7	6	1	3
1	2	6	5	1	3
7	8	12	11	1	4
6	7	11	10	1	3
5	6	10	9	1	3
11	12	13	14	1	4
14	13	15	19	1	4
23	19	24	28	1	3
19	15	17	24	1	4
10	11	14	16	1	3

Nodo i	Nodo j	Nodo k	Nodo l	Materiale	Sezione
24	17	20	25	1	4
16	14	19	23	1	3
18	9	10	16	1	3
25	24	28	30	1	3
25	20	21	27	1	4
18	26	23	16	1	3
31	28	30	34	1	3
25	27	32	30	1	3
27	21	22	29	1	4
34	35	32	30	1	3
26	31	28	23	1	3
27	29	33	32	1	3
32	33	36	35	1	3
103	105	101	107	1	2
108	109	119	114	1	2
104	108	114	111	1	2
101	104	111	107	1	2
115	117	129	127	1	2
113	115	127	125	1	2
112	113	125	124	1	2
109	112	124	119	1	2

Condizioni e combinazioni di carico

Convenzioni adottate

Nel seguito vengono riportate il numero di condizioni di carico statiche e dinamiche che sollecitano la struttura. Si noti che:

- Per quanto riguarda le condizioni di carico dinamiche, il programma assimila ogni direzione di ingresso del sisma, definita dal progettista, ad una condizione di carico. Pertanto qualora agiscano sulla struttura *n* condizioni di carico statiche e il progettista abbia supposto che la struttura venga sollecitata da un sisma entrante in *m* direzioni, la struttura stessa viene considerata del programma come soggetta ad *n* + *m* condizioni di carico.
- Le combinazioni di carico, definite dal progettista, combinano fra loro le *n* + *m* condizioni di carico ognuna partecipante alla combinazione *i-esima* secondo i fattori di partecipazione nel seguito riportati. N.B.: se la condizione *j-esima* ha fattore di partecipazione unitario, allora partecipa per intero alla combinazione *i-esima*.
- Le prime *n* condizioni sono sempre statiche mentre sono di origine dinamica le (eventuali) condizioni da *n+1* a *n+m*.

Condizioni di carico definite:

Condizione	
1	peso proprio
2	pesi permanenti
3	pesi loculi accidentali _250
4	neve_120
5	carico _h
6	folla
7	Sisma 0+SLU
8	Sisma 0-SLU
9	Sisma 90+SLU
10	Sisma 90-SLU
11	Sisma 180+SLU
12	Sisma 180-SLU
13	Sisma 270+SLU

Condizione	
14	Sisma 270-SLU
15	Sisma 0+SLD
16	Sisma 0-SLD
17	Sisma 90+SLD
18	Sisma 90-SLD
19	Sisma 180+SLD
20	Sisma 180-SLD
21	Sisma 270+SLD
22	Sisma 270-SLD

Combinazioni agli Stati Limite Ultimi

Combinazione di carico numero	
1	SLU_1
2	SLU_2
3	SLU_3
4	SLU_4

Comb.\Cond	**1**	**2**	**3**	**4**	**5**	**6**
1	1.3	1.5	1.5	0.75		1.05
2	1.3	1.5	1	1.5		1.05
3	1.3	1.5	1	0.75	1.5	1.05
4	1.3	1.5	1	0.75		1.5

Combinazioni agli Stati Limite di Salvaguardia della Vita

Combinazione di carico numero	
5	Sisma 0+ / 90+
6	Sisma 0+ / 90-
7	Sisma 0+ / 270+
8	Sisma 0+ / 270-
9	Sisma 0- / 90+
10	Sisma 0- / 90-
11	Sisma 0- / 270+
12	Sisma 0- / 270-
13	Sisma 90+ / 0+
14	Sisma 90+ / 0-
15	Sisma 90+ / 180+
16	Sisma 90+ / 180-
17	Sisma 90- / 0+
18	Sisma 90- / 0-
19	Sisma 90- / 180+
20	Sisma 90- / 180-
21	Sisma 180+ / 90+

Combinazione di carico numero

22	Sisma 180+ / 90-
23	Sisma 180+ / 270+
24	Sisma 180+ / 270-
25	Sisma 180- / 90+
26	Sisma 180- / 90-
27	Sisma 180- / 270+
28	Sisma 180- / 270-
29	Sisma 270+ / 0+
30	Sisma 270+ / 0-
31	Sisma 270+ / 180+
32	Sisma 270+ / 180-
33	Sisma 270- / 0+
34	Sisma 270- / 0-
35	Sisma 270- / 180+
36	Sisma 270- / 180-

Comb.\Cond	**1**	**2**	**3**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**
5	1	1	0.8	1	1		0.3					
6	1	1	0.8	1	1			0.3				
7	1	1	0.8	1	1						0.3	
8	1	1	0.8	1	1							0.3
9	1	1	0.8	1		1	0.3					
10	1	1	0.8	1		1		0.3				
11	1	1	0.8	1		1					0.3	
12	1	1	0.8	1		1						0.3
13	1	1	0.8	1	0.3		1					
14	1	1	0.8	1		0.3	1					
15	1	1	0.8	1			1		0.3			
16	1	1	0.8	1			1			0.3		
17	1	1	0.8	1	0.3			1				
18	1	1	0.8	1		0.3		1				
19	1	1	0.8	1				1	0.3			
20	1	1	0.8	1				1		0.3		
21	1	1	0.8	1			0.3		1			
22	1	1	0.8	1				0.3	1			
23	1	1	0.8	1					1		0.3	
24	1	1	0.8	1					1			0.3
25	1	1	0.8	1			0.3			1		
26	1	1	0.8	1				0.3		1		
27	1	1	0.8	1						1	0.3	
28	1	1	0.8	1						1		0.3
29	1	1	0.8	1	0.3						1	
30	1	1	0.8	1		0.3					1	
31	1	1	0.8	1					0.3		1	
32	1	1	0.8	1						0.3	1	
33	1	1	0.8	1	0.3							1
34	1	1	0.8	1		0.3						1
35	1	1	0.8	1					0.3			1
36	1	1	0.8	1						0.3		1

Combinazioni RARE Stati Limite di Esercizio

Combinazione di carico numero	
37	SLE_RARE_1
38	SLE_RARE_2
39	SLE_RARE_3
40	SLE_RARE_4

Comb.\Cond	**1**	**2**	**3**	**4**	**5**	**6**
37	1	1	1	0.5		0.7
38	1	1	1	1		0.7
39	1	1	1	0.5	1	0.7
40	1	1	1	0.5		1

Combinazioni FREQUENTI Stati Limite di Esercizio

Combinazione di carico numero	
41	SLE_FREQ_1
42	SLE_FREQ_2
43	SLE_FREQ_3
44	SLE_FREQ_4

Comb.\Cond	**1**	**2**	**3**	**4**	**6**
41	1	1	0.9		0.6
42	1	1	0.8	0.2	0.6
43	1	1	0.8		0.6
44	1	1	0.8		0.7

Combinazioni QUASI PERMANENTI Stati Limite di Esercizio

Combinazione di carico numero	
45	SLE_QP_1

Comb.\Cond	**1**	**2**	**3**	**6**
45	1	1	0.8	0.6

Combinazioni agli Stati Limite di Danno

Combinazione di carico numero	
46	Sisma 0+ / 90+
47	Sisma 0+ / 90-

Combinazione di carico numero	
48	Sisma 0+ / 270+
49	Sisma 0+ / 270-
50	Sisma 0- / 90+
51	Sisma 0- / 90-
52	Sisma 0- / 270+
53	Sisma 0- / 270-
54	Sisma 90+ / 0+
55	Sisma 90+ / 0-
56	Sisma 90+ / 180+
57	Sisma 90+ / 180-
58	Sisma 90- / 0+
59	Sisma 90- / 0-
60	Sisma 90- / 180+
61	Sisma 90- / 180-
62	Sisma 180+ / 90+
63	Sisma 180+ / 90-
64	Sisma 180+ / 270+
65	Sisma 180+ / 270-
66	Sisma 180- / 90+
67	Sisma 180- / 90-
68	Sisma 180- / 270+
69	Sisma 180- / 270-
70	Sisma 270+ / 0+
71	Sisma 270+ / 0-
72	Sisma 270+ / 180+
73	Sisma 270+ / 180-
74	Sisma 270- / 0+
75	Sisma 270- / 0-
76	Sisma 270- / 180+
77	Sisma 270- / 180-

Comb.\Cond	**1**	**2**	**3**	**6**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**
46	1	1	0.8	1	1		0.3					
47	1	1	0.8	1	1			0.3				
48	1	1	0.8	1	1						0.3	
49	1	1	0.8	1	1							0.3
50	1	1	0.8	1		1	0.3					
51	1	1	0.8	1		1		0.3				
52	1	1	0.8	1		1					0.3	
53	1	1	0.8	1		1						0.3
54	1	1	0.8	1	0.3		1					
55	1	1	0.8	1		0.3	1					
56	1	1	0.8	1			1		0.3			
57	1	1	0.8	1			1			0.3		
58	1	1	0.8	1	0.3			1				
59	1	1	0.8	1		0.3		1				
60	1	1	0.8	1				1	0.3			
61	1	1	0.8	1				1		0.3		
62	1	1	0.8	1			0.3		1			
63	1	1	0.8	1				0.3	1			
64	1	1	0.8	1					1		0.3	
65	1	1	0.8	1					1			0.3
66	1	1	0.8	1			0.3			1		
67	1	1	0.8	1				0.3		1		

68	1	1	0.8	1						1	0.3	
69	1	1	0.8	1						1		0.3
70	1	1	0.8	1	0.3						1	
71	1	1	0.8	1		0.3					1	
72	1	1	0.8	1					0.3		1	
73	1	1	0.8	1						0.3	1	
74	1	1	0.8	1	0.3							1
75	1	1	0.8	1		0.3						1
76	1	1	0.8	1					0.3			1
77	1	1	0.8	1						0.3		1

Tabella delle combinazioni di carico presentate come inviluppi

Commento	**Sigla Combinazione**	**Combinazioni utilizzate**
SLU Statiche	SLU Statiche +-	1 2 3 4
SLV	SLV +-	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
SLE Rare	SLE Rare +-	37 38 39 40
SLE Frequenti	SLE Frequenti +-	41 42 43 44
SLE Quasi Permanenti	SLE Quasi Permanenti +-	45
SLD	SLD +-	46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77

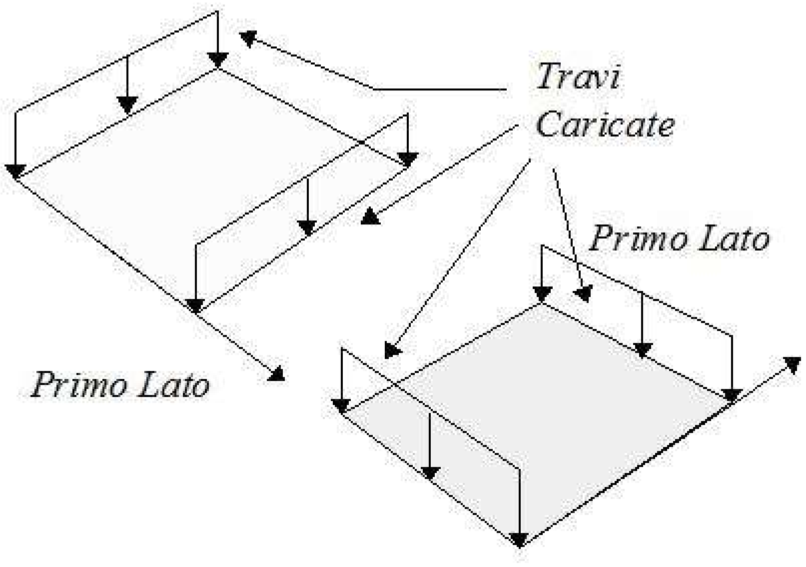
Dati relativi alle aree di carico

Convenzioni adottate

Nel seguito sono riportate le *aree di carico* definite nel progetto.

Un'*area di carico* è definita da una superfice contornata da travi di bordo ed i carichi superficiali su essa agenti vengono riportati dal programma sulle travi perimetrali in ragione dell'area di influenza relativa ad ogni trave e della direzione di orditura della superficie.

È importante rilevare che **la direzione di orditura viene assunta dal programma con riferimento al primo lato della superficie di carico e non con riferimento all'asse *x* globale della struttura**.



Esempio: *direzione* di orditura 0 gradi.

In particolare ricordiamo che le *aree di carico* fungono esclusivamente da supporto per il calcolo dei carichi di tipo superficiale in quanto i carichi definiti tramite tali *aree di carico* in effetti vengono trasferiti (sotto forma di carichi lineari o carichi nodali concentrati nei nodi) sulle travi perimetrali che contornano l'area di carico stessa.

A seguire vengono riportati per ogni tipologia definita i carichi agenti nelle varie condizioni di carico. La dizione:

Globale
indica che il carico è definito nel sistema di riferimento globale della struttura.
Globale Proiettato
indica che il carico è definito nel sistema di riferimento globale della struttura ma il valore viene computato in proiezione.
Locale
indica che il carico è definito nel sistema di riferimento locale della superficie di carico.

Area di Carico Numero	**Commento**
1	SOLAIO DI COPERTURA

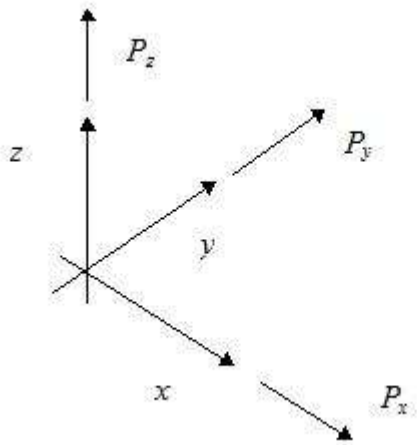
Tipo	**Alfa**	**Condizione**	**Carico Trasmesso**	**Riferimento**	**qx [kg/m²] Qx [kN]**	**qy [kg/m²] Qy [kN]**	**qz [kg/m²] Qz [kN]**
1	0.00	2	Alle Travi	Globale	0.0	0.0	280.0
					-0.00	-0.00	260.31
1	0.00	4	Alle Travi	Globale	0.0	0.0	120.0
					-0.00	-0.00	111.56
1	0.00	5	Alle Travi	Globale	0.0	0.0	50.0
					-0.00	-0.00	46.48

Tipologia	**Nodi**
1	46 44 116 123 46
1	133 132 127 129 133
1	53 52 130 132 53
1	54 53 132 133 54
1	106 102 103 107 106
1	39 37 102 106 39
1	110 106 107 111 110
1	41 39 106 110 41
1	116 110 111 114 116
1	123 116 114 119 123
1	44 41 110 116 44
1	132 130 125 127 132
1	130 128 124 125 130
1	52 49 128 130 52
1	128 123 119 124 128
1	49 46 123 128 49

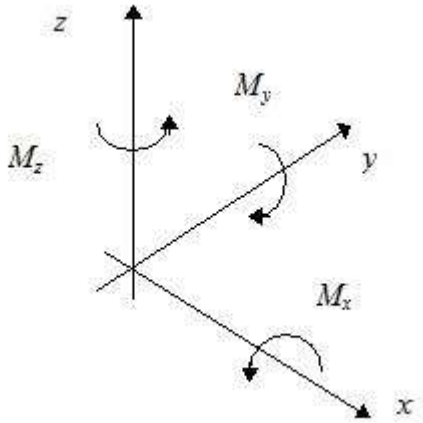
Carichi e coppie applicati ai nodi

Convenzioni adottate

La terna di riferimento generale è destrorsa per cui si hanno i seguenti segni positivi per i carichi o per le coppie direttamente applicati ai nodi:



Versi positivi delle forze concentrate applicate ai nodi.



Versi positivi delle coppie concentrate applicate ai nodi.

Nel seguito vengono riportati per ogni nodo, su cui agiscono carichi concentrati, le componenti del carico (**P_x**, **P_y**, **P_z**, **M_x**, **M_y**, **M_z**) e la condizione di carico cui esse fanno riferimento.

Nodo	Cond.	Px [kN]	Py [kN]	Pz [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
37	2	0.00	0.00	-4.28	0.00	0.00	0.00
	4	0.00	0.00	-1.83	0.00	0.00	0.00
	5	0.00	0.00	-0.76	0.00	0.00	0.00
39	2	0.00	0.00	-8.76	0.00	0.00	0.00
	4	0.00	0.00	-3.75	0.00	0.00	0.00
	5	0.00	0.00	-1.56	0.00	0.00	0.00
41	2	0.00	0.00	-9.69	0.00	0.00	0.00
	4	0.00	0.00	-4.15	0.00	0.00	0.00
	5	0.00	0.00	-1.73	0.00	0.00	0.00
44	2	0.00	0.00	-10.42	0.00	0.00	0.00
	4	0.00	0.00	-4.47	0.00	0.00	0.00
	5	0.00	0.00	-1.86	0.00	0.00	0.00
46	2	0.00	0.00	-10.42	0.00	0.00	0.00
	4	0.00	0.00	-4.47	0.00	0.00	0.00
	5	0.00	0.00	-1.86	0.00	0.00	0.00
49	2	0.00	0.00	-10.42	0.00	0.00	0.00
	4	0.00	0.00	-4.47	0.00	0.00	0.00

Nodo	Cond.	Px [kN]	Py [kN]	Pz [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
	5	0.00	0.00	-1.86	0.00	0.00	0.00
52	2	0.00	0.00	-10.42	0.00	0.00	0.00
	4	0.00	0.00	-4.47	0.00	0.00	0.00
	5	0.00	0.00	-1.86	0.00	0.00	0.00
53	2	0.00	0.00	-10.42	0.00	0.00	0.00
	4	0.00	0.00	-4.47	0.00	0.00	0.00
	5	0.00	0.00	-1.86	0.00	0.00	0.00
54	2	0.00	0.00	-5.21	0.00	0.00	0.00
	4	0.00	0.00	-2.23	0.00	0.00	0.00
	5	0.00	0.00	-0.93	0.00	0.00	0.00
102	2	0.00	0.00	-4.28	0.00	0.00	0.00
	4	0.00	0.00	-1.83	0.00	0.00	0.00
	5	0.00	0.00	-0.76	0.00	0.00	0.00
106	2	0.00	0.00	-8.76	0.00	0.00	0.00
	4	0.00	0.00	-3.75	0.00	0.00	0.00
	5	0.00	0.00	-1.56	0.00	0.00	0.00
110	2	0.00	0.00	-9.22	0.00	0.00	0.00
	4	0.00	0.00	-3.95	0.00	0.00	0.00
	5	0.00	0.00	-1.65	0.00	0.00	0.00
116	2	0.00	0.00	-9.48	0.00	0.00	0.00
	4	0.00	0.00	-4.06	0.00	0.00	0.00
	5	0.00	0.00	-1.69	0.00	0.00	0.00
123	2	0.00	0.00	-9.48	0.00	0.00	0.00
	4	0.00	0.00	-4.06	0.00	0.00	0.00
	5	0.00	0.00	-1.69	0.00	0.00	0.00
128	2	0.00	0.00	-9.48	0.00	0.00	0.00
	4	0.00	0.00	-4.06	0.00	0.00	0.00
	5	0.00	0.00	-1.69	0.00	0.00	0.00
130	2	0.00	0.00	-9.48	0.00	0.00	0.00
	4	0.00	0.00	-4.06	0.00	0.00	0.00
	5	0.00	0.00	-1.69	0.00	0.00	0.00
132	2	0.00	0.00	-9.48	0.00	0.00	0.00
	4	0.00	0.00	-4.06	0.00	0.00	0.00
	5	0.00	0.00	-1.69	0.00	0.00	0.00
133	2	0.00	0.00	-4.74	0.00	0.00	0.00
	4	0.00	0.00	-2.03	0.00	0.00	0.00
	5	0.00	0.00	-0.85	0.00	0.00	0.00

Carichi e coppie applicati ai solai

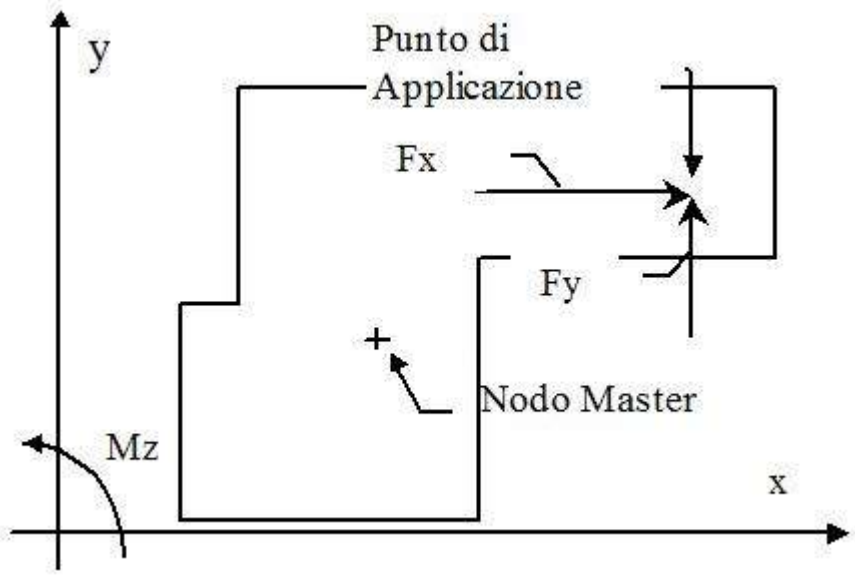
Convenzioni adottate

Seguendo l'ipotesi di piano infinitamente rigido le azioni agenti nel piano del solaio vengono trasformate dal codice di calcolo in azioni agenti nel cosiddetto nodo *master di solaio* secondo le trasformazioni seguenti:

$F_{xMaster} = F_{xNodo}$

$F_{yMaster} = F_{yNodo}$

$M_{zMaster} = M_{zNodo} - F_{xNodo} (y_{App} - y_{Master}) + F_{yNodo} (x_{App} - x_{Master})$



Nel seguito vengono riportati per ogni solaio, su cui agiscono carichi concentrati, le componenti del carico (**F_x**, **F_y**, **M_z**), le coordinate del punto di applicazione nel piano orizzontale (**x, y**) e la condizione di carico cui esse fanno riferimento.

Solaio	Condizione	Fx [kN]	Fy [kN]	Mz [kgm]	x Punto di applicazione [m]	y Punto di Applicazione [m]

Carichi applicati agli elementi

Convenzioni adottate

I carichi applicati vengono raccolti nella tabella riportata alla fine del paragrafo e si intendono applicati nel sistema di riferimento locale dell'elemento.

Per la lettura della tabella si definiscono:

NodoI, NodoJ
: I nodi iniziale/finale dell'asta o lato dell'elemento cui afferisce il carico

L
: La distanza fra i suddetti nodi.

qxi, ..., qzj
: Le componenti di un carico distribuito costante o variabile lineramente iniziali (indice i) e finale (indice j).

xi, xj
: Le distanze, misurate a partire dal NodoI, dei punti di applicazione dei carichi qxi..qzj relativi a carichi distribuiti applicati su porzioni di un'asta.

Px, ..., Pz xApp
: Le componenti di un Carico Concentrato applicato a distanza xApp dal NodoI.

Mx, ..., Mz xApp
: Le componenti di una Coppia Concentrata applicata a distanza xApp dal NodoI.

Var Termica Assiale, ..., Var Termica Farfalla 13
: Le variazioni termiche (Assiali ed a Farfalla) misurate in gradi Celsius.

mxi, ..., mzj
: Le componenti di coppie distribuite costanti o variabili lineramente iniziali (indice i) e finale (indice j).

qS_x, qS_y, qS_z
: carichi, per unità di superficie, applicati su elementi superficiali o facce di elementi solidi

Peso Proprio
: Il valore del carico derivante dal peso proprio dell'elemento

Carichi distribuiti

Nodo I	Nodo J	L [m]	Condizione di carico	xi [m]	qxi [kg/m]	qyi [kg/m]	qzi [kg/m]	xj [m]	qxj [kg/m]	qyj [kg/m]	qzj [kg/m]
3	103	5.15	1	0.00	218.8	0.0	0.0	5.15	218.8	0.0	0.0
2	1	2.75	2	0.00	0.0	1000.0	0.0	2.75	0.0	1000.0	0.0
			1	0.00	0.0	750.0	0.0	2.75	0.0	750.0	0.0

7	107	5.15	1	0.00	218.8	0.0	0.0	5.15	218.8	0.0	0.0
3	2	2.40	2	0.00	0.0	1000.0	0.0	2.40	0.0	1000.0	0.0
			1	0.00	0.0	750.0	0.0	2.40	0.0	750.0	0.0
11	111	5.15	1	0.00	218.8	0.0	0.0	5.15	218.8	0.0	0.0
14	114	5.15	1	0.00	218.8	-0.0	-0.0	5.15	218.8	-0.0	-0.0
5	6	2.75	1	0.00	0.0	750.0	0.0	2.75	0.0	750.0	0.0
19	119	5.15	1	0.00	218.8	-0.0	0.0	5.15	218.8	-0.0	0.0
6	7	2.40	1	0.00	0.0	750.0	0.0	2.40	0.0	750.0	0.0
			2	0.00	0.0	1200.0	0.0	2.40	0.0	1200.0	0.0
24	124	5.15	1	0.00	218.8	0.0	0.0	5.15	218.8	0.0	0.0
25	125	5.15	1	0.00	218.8	0.0	0.0	5.15	218.8	0.0	0.0
9	10	2.75	2	0.00	0.0	3250.0	0.0	2.75	0.0	3250.0	0.0
			1	0.00	0.0	750.0	0.0	2.75	0.0	750.0	0.0
27	127	5.15	1	0.00	218.8	0.0	0.0	5.15	218.8	0.0	0.0
10	11	2.40	1	0.00	0.0	750.0	0.0	2.40	0.0	750.0	0.0
			2	0.00	0.0	1200.0	0.0	2.40	0.0	1200.0	0.0
29	129	5.15	1	0.00	218.8	0.0	0.0	5.15	218.8	0.0	0.0
1	5	2.15	2	0.00	0.0	850.0	0.0	2.15	0.0	850.0	0.0
			1	0.00	0.0	750.0	0.0	2.15	0.0	750.0	0.0
5	9	2.25	2	0.00	0.0	850.0	0.0	2.25	0.0	850.0	0.0
			1	0.00	0.0	750.0	0.0	2.25	0.0	750.0	0.0
2	6	2.15	1	0.00	0.0	750.0	0.0	2.15	0.0	750.0	0.0
6	10	2.25	1	0.00	0.0	750.0	0.0	2.25	0.0	750.0	0.0
7	3	2.15	2	0.00	0.0	500.0	0.0	2.15	0.0	500.0	0.0
			1	0.00	0.0	750.0	0.0	2.15	0.0	750.0	0.0
11	7	2.25	2	0.00	0.0	500.0	0.0	2.25	0.0	500.0	0.0
			1	0.00	0.0	750.0	0.0	2.25	0.0	750.0	0.0
33	29	2.35	2	0.00	0.0	1000.0	0.0	2.35	0.0	1000.0	0.0
			1	0.00	0.0	750.0	0.0	2.35	0.0	750.0	0.0
36	33	2.75	2	0.00	0.0	1750.0	0.0	2.75	0.0	1750.0	0.0
			1	0.00	0.0	750.0	0.0	2.75	0.0	750.0	0.0
			2	0.00	0.0	1000.0	0.0	2.75	0.0	1000.0	0.0
18	16	2.75	2	0.00	0.0	3250.0	0.0	2.75	0.0	3250.0	0.0
			1	0.00	0.0	750.0	0.0	2.75	0.0	750.0	0.0
16	14	2.35	1	0.00	0.0	750.0	0.0	2.35	0.0	750.0	0.0
			2	0.00	0.0	1200.0	0.0	2.35	0.0	1200.0	0.0
23	26	2.75	2	0.00	0.0	3250.0	0.0	2.75	0.0	3250.0	0.0
			1	0.00	0.0	750.0	0.0	2.75	0.0	750.0	0.0
19	23	2.35	1	0.00	0.0	750.0	0.0	2.35	0.0	750.0	0.0
			2	0.00	0.0	1200.0	0.0	2.35	0.0	1200.0	0.0
28	31	2.75	2	0.00	0.0	3250.0	0.0	2.75	0.0	3250.0	0.0
			1	0.00	0.0	750.0	0.0	2.75	0.0	750.0	0.0
24	28	2.35	1	0.00	0.0	750.0	0.0	2.35	0.0	750.0	0.0
			2	0.00	0.0	1200.0	0.0	2.35	0.0	1200.0	0.0
30	34	2.75	2	0.00	0.0	3250.0	0.0	2.75	0.0	3250.0	0.0
			1	0.00	0.0	750.0	0.0	2.75	0.0	750.0	0.0
25	30	2.35	1	0.00	0.0	750.0	0.0	2.35	0.0	750.0	0.0
			2	0.00	0.0	1200.0	0.0	2.35	0.0	1200.0	0.0
32	35	2.75	2	0.00	0.0	3250.0	0.0	2.75	0.0	3250.0	0.0
			1	0.00	0.0	750.0	0.0	2.75	0.0	750.0	0.0
27	32	2.35	1	0.00	0.0	750.0	0.0	2.35	0.0	750.0	0.0
			2	0.00	0.0	1200.0	0.0	2.35	0.0	1200.0	0.0
32	33	2.16	1	0.00	0.0	750.0	0.0	2.16	0.0	750.0	0.0
30	32	2.16	1	0.00	0.0	750.0	0.0	2.16	0.0	750.0	0.0
28	30	2.16	1	0.00	0.0	750.0	0.0	2.16	0.0	750.0	0.0
23	28	2.16	1	0.00	0.0	750.0	0.0	2.16	0.0	750.0	0.0
16	23	2.16	1	0.00	0.0	750.0	0.0	2.16	0.0	750.0	0.0
10	16	2.16	1	0.00	0.0	750.0	0.0	2.16	0.0	750.0	0.0

14	11	1.54	2	0.00	0.0	500.0	0.0	1.54	0.0	500.0	0.0
			1	0.00	0.0	750.0	0.0	1.54	0.0	750.0	0.0
19	14	1.55	2	0.00	0.0	500.0	0.0	1.55	0.0	500.0	0.0
			1	0.00	0.0	750.0	0.0	1.55	0.0	750.0	0.0
24	19	1.55	2	0.00	0.0	500.0	0.0	1.55	0.0	500.0	0.0
			1	0.00	0.0	750.0	0.0	1.55	0.0	750.0	0.0
25	24	1.55	2	0.00	0.0	500.0	0.0	1.55	0.0	500.0	0.0
			1	0.00	0.0	750.0	0.0	1.55	0.0	750.0	0.0
27	25	1.55	2	0.00	0.0	500.0	0.0	1.55	0.0	500.0	0.0
			1	0.00	0.0	750.0	0.0	1.55	0.0	750.0	0.0
29	27	1.55	2	0.00	0.0	500.0	0.0	1.55	0.0	500.0	0.0
			1	0.00	0.0	750.0	0.0	1.55	0.0	750.0	0.0
35	36	2.88	2	0.00	0.0	850.0	0.0	2.88	0.0	850.0	0.0
			1	0.00	0.0	750.0	0.0	2.88	0.0	750.0	0.0
34	35	2.88	2	0.00	0.0	850.0	0.0	2.88	0.0	850.0	0.0
			1	0.00	0.0	750.0	0.0	2.88	0.0	750.0	0.0
31	34	2.88	2	0.00	0.0	850.0	0.0	2.88	0.0	850.0	0.0
			1	0.00	0.0	750.0	0.0	2.88	0.0	750.0	0.0
26	31	2.88	2	0.00	0.0	850.0	0.0	2.88	0.0	850.0	0.0
			1	0.00	0.0	750.0	0.0	2.88	0.0	750.0	0.0
18	26	2.88	2	0.00	0.0	850.0	0.0	2.88	0.0	850.0	0.0
			1	0.00	0.0	750.0	0.0	2.88	0.0	750.0	0.0
9	18	2.88	2	0.00	0.0	850.0	0.0	2.88	0.0	850.0	0.0
			1	0.00	0.0	750.0	0.0	2.88	0.0	750.0	0.0
102	103	2.48	1	0.00	33.5	126.9	0.0	2.48	33.5	126.9	0.0
			2	0.00	76.7	291.1	0.0	2.48	76.7	291.1	0.0
			4	0.00	32.9	124.7	0.0	2.48	32.9	124.7	0.0
			5	0.00	13.7	52.0	0.0	2.48	13.7	52.0	0.0
			2	2.48	76.7	291.0	0.0	2.48	0.0	0.0	0.0
			4	2.48	32.9	124.7	0.0	2.48	0.0	0.0	0.0
			5	2.48	13.7	52.0	0.0	2.48	0.0	0.0	0.0
106	107	2.48	1	0.00	33.3	126.9	0.0	2.48	33.3	126.9	0.0
			2	0.00	80.0	304.7	0.0	2.48	80.0	304.7	0.0
			4	0.00	34.3	130.6	0.0	2.48	34.3	130.6	0.0
			5	0.00	14.3	54.4	0.0	2.48	14.3	54.4	0.0
			2	0.00	76.4	291.1	0.0	2.48	76.4	291.1	0.0
			4	0.00	32.8	124.8	0.0	2.48	32.8	124.8	0.0
			5	0.00	13.6	52.0	0.0	2.48	13.6	52.0	0.0
116	114	2.43	1	0.00	34.0	126.8	0.0	2.43	34.0	126.8	0.0
			2	0.00	77.7	290.0	0.0	2.43	55.7	207.7	0.0
			4	0.00	33.3	124.3	0.0	2.43	23.9	89.0	0.0
			5	0.00	13.9	51.8	0.0	2.43	9.9	37.1	0.0
			2	0.00	77.7	290.0	0.0	2.43	55.7	207.6	0.0
			4	0.00	33.3	124.3	0.0	2.43	23.9	89.0	0.0
			5	0.00	13.9	51.8	0.0	2.43	9.9	37.1	0.0
130	125	2.43	1	0.00	34.0	126.8	-0.0	2.43	34.0	126.8	-0.0
			2	0.00	77.7	290.0	-0.0	2.43	55.7	207.7	-0.0
			4	0.00	33.3	124.3	-0.0	2.43	23.9	89.0	-0.0
			5	0.00	13.9	51.8	-0.0	2.43	9.9	37.1	-0.0
			2	0.00	77.7	290.0	-0.0	2.43	55.7	207.7	-0.0
			4	0.00	33.3	124.3	-0.0	2.43	23.9	89.0	-0.0
			5	0.00	13.9	51.8	-0.0	2.43	9.9	37.1	-0.0
133	129	2.43	1	0.00	34.0	126.8	0.0	2.43	34.0	126.8	0.0
			2	0.00	77.7	290.0	-0.0	2.43	55.7	207.7	-0.0
			4	0.00	33.3	124.3	-0.0	2.43	23.9	89.0	-0.0
			5	0.00	13.9	51.8	-0.0	2.43	9.9	37.1	-0.0
123	119	2.43	1	0.00	34.0	126.8	0.0	2.43	34.0	126.8	0.0
			2	0.00	77.7	290.0	-0.0	2.43	55.7	207.7	-0.0

			4	0.00	33.3	124.3	-0.0	2.43	23.9	89.0	-0.0
			5	0.00	13.9	51.8	0.0	2.43	9.9	37.1	0.0
			2	0.00	77.7	290.0	-0.0	2.43	55.7	207.7	-0.0
			4	0.00	33.3	124.3	-0.0	2.43	23.9	89.0	-0.0
			5	0.00	13.9	51.8	-0.0	2.43	9.9	37.1	-0.0
128	124	2.43	1	0.00	34.0	126.8	0.0	2.43	34.0	126.8	0.0
			2	0.00	77.7	290.0	0.0	2.43	55.7	207.7	0.0
			4	0.00	33.3	124.3	0.0	2.43	23.9	89.0	0.0
			5	0.00	13.9	51.8	0.0	2.43	9.9	37.1	0.0
			2	0.00	77.7	290.0	0.0	2.43	55.7	207.7	0.0
			4	0.00	33.3	124.3	0.0	2.43	23.9	89.0	0.0
			5	0.00	13.9	51.8	0.0	2.43	9.9	37.1	0.0
132	127	2.43	1	0.00	34.0	126.8	-0.0	2.43	34.0	126.8	-0.0
			2	0.00	77.7	290.0	-0.0	2.43	55.7	207.7	-0.0
			4	0.00	33.3	124.3	-0.0	2.43	23.9	89.0	-0.0
			5	0.00	13.9	51.8	-0.0	2.43	9.9	37.1	-0.0
			2	0.00	77.7	290.0	-0.0	2.43	55.7	207.7	-0.0
			4	0.00	33.3	124.3	-0.0	2.43	23.9	89.0	-0.0
			5	0.00	13.9	51.8	-0.0	2.43	9.9	37.1	-0.0
110	111	2.48	1	0.00	33.3	126.9	0.0	2.48	33.3	126.9	0.0
			2	0.00	76.2	290.4	-0.0	2.43	54.6	207.9	-0.0
			4	0.00	32.7	124.4	-0.0	2.43	23.4	89.1	-0.0
			5	0.00	13.6	51.8	-0.0	2.43	9.7	37.1	-0.0
			2	2.43	54.6	207.9	-0.0	2.48	0.0	0.0	0.0
			4	2.43	23.4	89.1	-0.0	2.48	0.0	0.0	0.0
			5	2.43	9.7	37.1	-0.0	2.48	0.0	0.0	0.0
			2	0.00	80.0	304.7	0.0	2.48	80.0	304.7	0.0
			4	0.00	34.3	130.6	0.0	2.48	34.3	130.6	0.0
			5	0.00	14.3	54.4	0.0	2.48	14.3	54.4	0.0
102	106	2.15	1	0.00	0.0	131.3	0.0	2.15	0.0	131.3	0.0
106	110	2.25	1	0.00	0.0	131.3	0.0	2.25	0.0	131.3	0.0
103	107	2.15	1	0.00	-0.3	250.0	0.0	2.15	-0.3	250.0	0.0
			2	0.00	0.0	0.0	0.0	2.15	-0.0	0.1	-0.0
			4	0.00	0.0	0.0	0.0	2.15	-0.0	0.0	0.0
			5	0.00	0.0	0.0	0.0	2.15	-0.0	0.0	-0.0
107	111	2.25	1	0.00	0.0	250.0	0.0	2.25	0.0	250.0	0.0
125	127	1.55	1	0.00	0.0	250.0	0.0	1.55	0.0	250.0	0.0
110	116	2.16	1	0.00	0.0	131.3	-0.0	2.16	0.0	131.3	-0.0
119	124	1.55	1	0.00	0.0	250.0	0.0	1.55	0.0	250.0	0.0
124	125	1.55	1	0.00	0.0	250.0	0.0	1.55	0.0	250.0	0.0
128	130	2.16	1	0.00	0.0	131.3	-0.0	2.16	0.0	131.3	-0.0
130	132	2.16	1	0.00	0.0	131.3	-0.0	2.16	0.0	131.3	-0.0
132	133	2.16	1	0.00	0.0	131.3	0.0	2.16	0.0	131.3	0.0
116	123	2.16	1	0.00	0.0	131.3	0.0	2.16	0.0	131.3	0.0
123	128	2.16	1	0.00	0.0	131.3	0.0	2.16	0.0	131.3	0.0
111	114	1.54	1	0.00	0.0	250.0	0.0	1.54	0.0	250.0	0.0
			2	0.00	0.0	0.0	0.0	1.54	0.0	6.7	-0.0
			4	0.00	0.0	0.0	0.0	1.54	0.0	2.9	-0.0
			5	0.00	0.0	0.0	0.0	1.54	0.0	1.2	-0.0
127	129	1.55	1	0.00	0.0	250.0	0.0	1.55	0.0	250.0	0.0
114	119	1.55	1	0.00	0.0	250.0	-0.0	1.55	0.0	250.0	-0.0

Carichi distribuiti

Elemento	Condizione di carico	Nodi	L [m]	xi [m]	qxi [kg/m]	qyi [kg/m]	qzi [kg/m]	xj [m]	qxj [kg/m]	qyj [kg/m]	qzj [kg/m]	qSx [kg/m²]	qSy [kg/m²]	qSz [kg/m²]
3 8	6											0.0	0.0	400.0
	2											0.0	0.0	200.0

	1	0.0	0.0	875.0
128 47 49	1	-625.0	0.0	0.0
2 37	1	0.0	500.0	0.0
2 7	3	0.0	0.0	1000.0
	2	0.0	0.0	2400.0
	1	0.0	0.0	875.0
53 132 50	1	158.3	-604.6	-0.0
1 39	1	0.0	500.0	0.0
1 6	3	0.0	0.0	1000.0
	2	0.0	0.0	2400.0
	1	0.0	0.0	875.0
46 45 123	1	0.0	625.0	-0.0
6 39	1	0.0	500.0	0.0
7 12	6	0.0	0.0	400.0
	2	0.0	0.0	200.0
	1	0.0	0.0	875.0
41 110 42	1	158.3	-604.6	0.0
5 41	1	0.0	500.0	0.0
6 11	3	0.0	0.0	1000.0
	2	0.0	0.0	2400.0
	1	0.0	0.0	875.0
39 40 106	1	0.0	625.0	0.0
18 41	1	0.0	500.0	0.0
5 10	3	0.0	0.0	1000.0
	2	0.0	0.0	2400.0
	1	0.0	0.0	875.0
44 43 116	1	0.0	625.0	-0.0
10 41	1	0.0	500.0	0.0
11 13	6	0.0	0.0	400.0
	2	0.0	0.0	200.0
	1	0.0	0.0	875.0
52 130 48	1	158.3	-604.6	-0.0
16 44	1	0.0	500.0	0.0
14 15	6	0.0	0.0	400.0
	2	0.0	0.0	200.0
	1	0.0	0.0	875.0
54 133 51	1	158.3	-604.6	0.0
26 44	1	0.0	500.0	0.0
23 24	3	0.0	0.0	1000.0
	2	0.0	0.0	2400.0
	1	0.0	0.0	875.0
37 38 102	1	0.0	625.0	0.0
26 45	1	0.0	500.0	0.0
19 17	6	0.0	0.0	400.0
	2	0.0	0.0	200.0
	1	0.0	0.0	875.0
31 46	1	0.0	500.0	0.0
10 14	3	0.0	0.0	1000.0
	2	0.0	0.0	2400.0
	1	0.0	0.0	875.0
31 47	1	0.0	500.0	0.0
24 20	6	0.0	0.0	400.0
	2	0.0	0.0	200.0
	1	0.0	0.0	875.0
30 52	1	0.0	500.0	0.0
16 19	3	0.0	0.0	1000.0
	2	0.0	0.0	2400.0
	1	0.0	0.0	875.0

34 49	1	0.0	500.0	0.0
18 10	3	0.0	0.0	1000.0
	2	0.0	0.0	2400.0
	1	0.0	0.0	875.0
35 50	1	0.0	500.0	0.0
25 28	3	0.0	0.0	-1000.0
	2	0.0	0.0	-2400.0
	1	0.0	0.0	-875.0
36 51	1	0.0	500.0	0.0
25 21	6	0.0	0.0	400.0
	2	0.0	0.0	200.0
	1	0.0	0.0	875.0
35 52	1	0.0	500.0	0.0
18 23	3	0.0	0.0	-1000.0
	2	0.0	0.0	-2400.0
	1	0.0	0.0	-875.0
36 53	1	0.0	500.0	0.0
31 30	3	0.0	0.0	1000.0
	2	0.0	0.0	2400.0
	1	0.0	0.0	875.0
25 32	3	0.0	0.0	1000.0
	2	0.0	0.0	2400.0
	1	0.0	0.0	875.0
27 22	6	0.0	0.0	400.0
	2	0.0	0.0	200.0
	1	0.0	0.0	875.0
34 32	3	0.0	0.0	-1000.0
	2	0.0	0.0	-2400.0
	1	0.0	0.0	-875.0
26 28	3	0.0	0.0	-1000.0
	2	0.0	0.0	-2400.0
	1	0.0	0.0	-875.0
27 33	3	0.0	0.0	1000.0
	2	0.0	0.0	2400.0
	1	0.0	0.0	875.0
32 36	3	0.0	0.0	1000.0
	2	0.0	0.0	2400.0
	1	0.0	0.0	875.0
103 101	2	16.1	-0.2	98.7
	4	19.4	-0.3	118.4
	5	8.1	-0.1	49.3
	1	125.5	0.2	484.0
108 119	2	0.0	-16.5	98.6
	4	0.0	-19.8	118.4
	5	0.0	-8.3	49.3
	1	0.0	-124.7	484.2
104 114	2	1.7	-16.7	98.6
	4	2.1	-20.1	118.3
	5	0.9	-8.4	49.3
	1	0.0	-124.7	484.2
101 111	2	0.0	-16.0	98.7
	4	0.0	-19.2	118.4
	5	0.0	-8.0	49.4
	1	0.0	-126.2	483.8
115 129	2	0.0	-16.5	98.6
	4	0.0	-19.8	118.4
	5	0.0	-8.3	49.3
	1	0.0	-124.7	484.2

113 127	2	0.0	-16.5	98.6
	4	0.0	-19.8	118.4
	5	0.0	-8.3	49.3
	1	0.0	-124.7	484.2
112 125	2	0.0	-16.5	98.6
	4	0.0	-19.8	118.4
	5	0.0	-8.3	49.3
	1	0.0	-124.7	484.2
109 124	2	0.0	-16.5	98.6
	4	0.0	-19.8	118.4
	5	0.0	-8.3	49.3
	1	0.0	-124.7	484.2

Analisi dinamica

Convenzioni adottate

Nella presente versione del programma ***WinStrand*** l'analisi in campo dinamico della struttura può essere condotta per via *statica equivalente* ovvero per via *modale* facendo uso, per il calcolo della risposta, dello spettro di pseudo accellerazioni fornito dal regolamento italiano.

Dati generali relativi all'analisi dinamica

Spettro in accordo con TU 2018

- Via Monte Stalio, 2, 63834 Massa Fermana FM, Italia Longitudine 13.4719 Latitudine 43.1564
- Tipo di Terreno B
- Coefficiente di amplificazione topografica (S_T) 1.0000
- Vita nominale della costruzione (V_N) 50.0 anni
- Classe d'uso II coefficiente C_U 1.0
- Classe di duttilità impostata Non Dissipativa
- Fattore di duttilità α_u/α_1 per sisma orizzontale 1.00
- Fattore riduttivo regolarità in altezza K_R 1.00
- Fattore riduttivo per la presenza di setti K_W 1.00

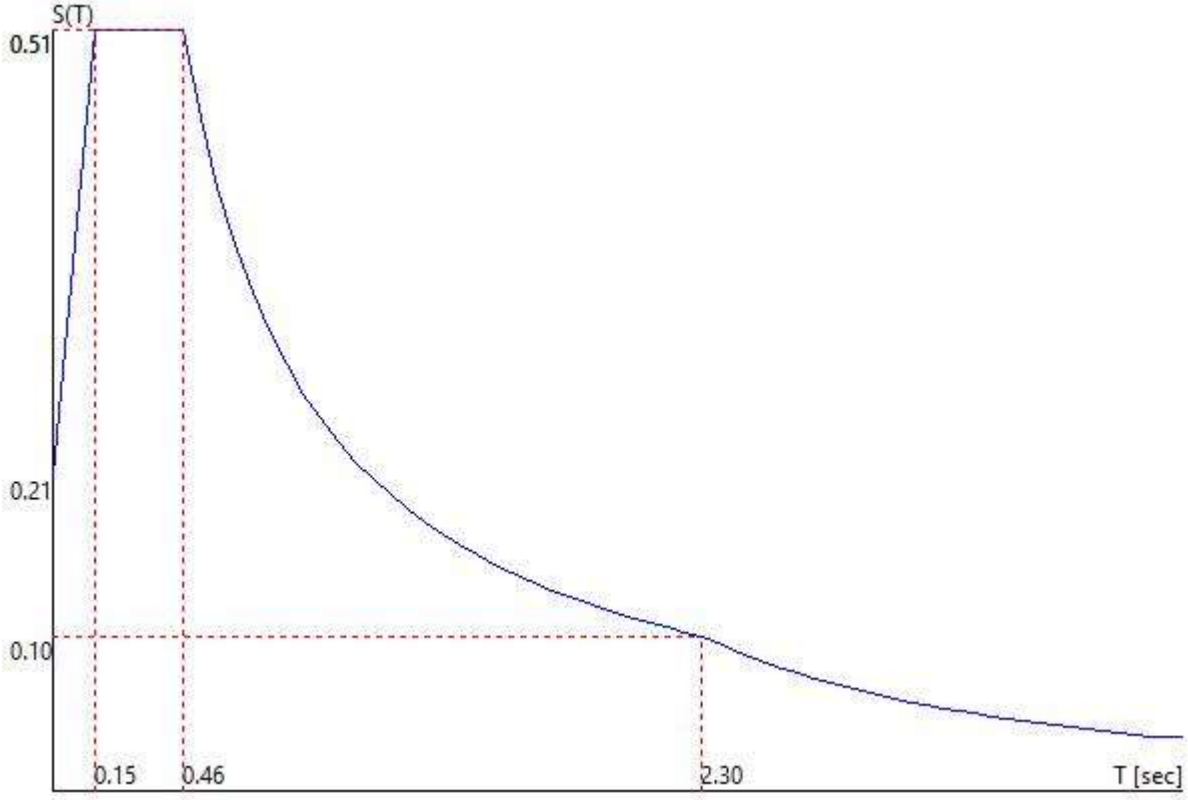
Stato Limite	q_o	q_H	q_V
SLV	1.00	1.00	1.50
SLD	1.00	1.00	1.50
SLC	1.00	1.00	1.50
SLO	1.00	1.00	1.50

- Smorzamento Viscoso (0.05 = 5%) 0.05

TU 2018 SLV H

- Probabilità di superamento (P_{VR}) 10.0 e periodo di ritorno (T_R) 475 (anni)
- S_s 1.200
- T_B 0.15 [sec]
- T_C 0.46 [sec]
- T_D 2.30 [sec]
- a_g/g 0.1745
- F_o 2.4341
- T_C^* 0.3400

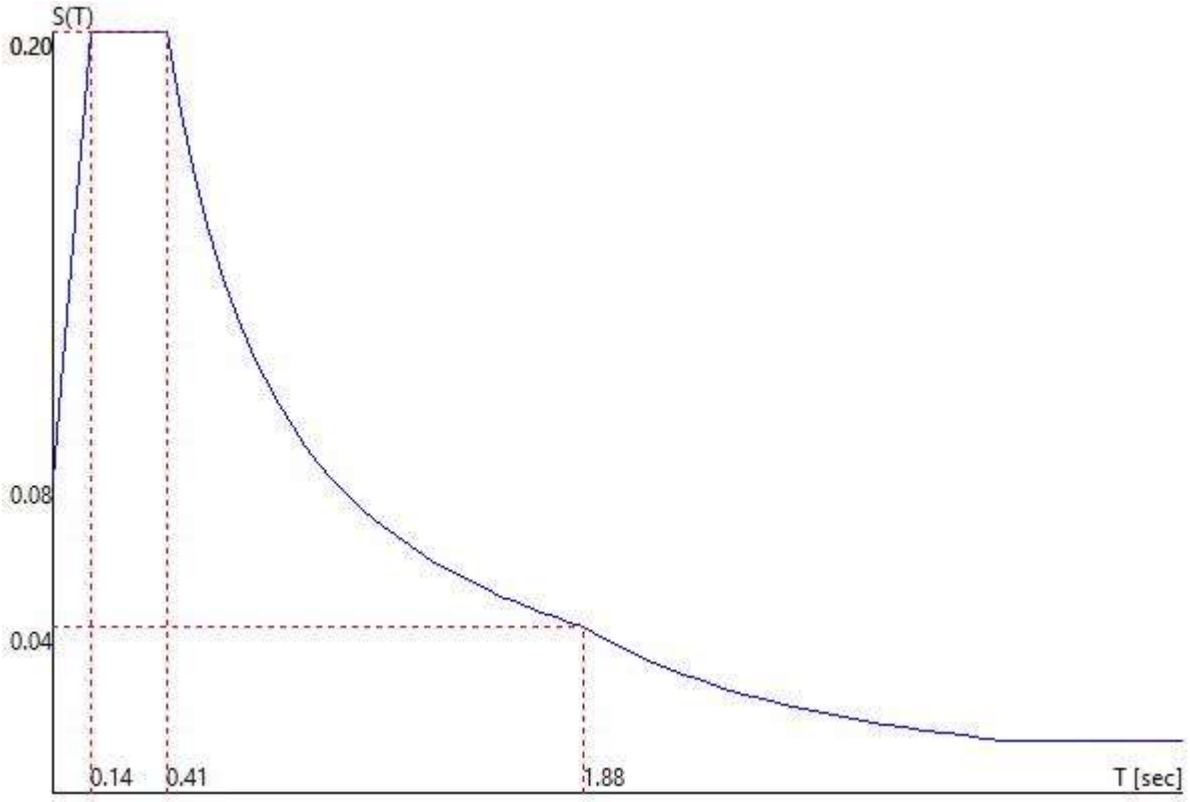
TU 2018 SLV H



TU 2018 SLD H

- Probabilità di superamento (P_{VR}) 63.0 e periodo di ritorno (T_R) 50 (anni)
- S_s 1.200
- T_B 0.14 [sec]
- T_C 0.41 [sec]
- T_D 1.88 [sec]
- a_g/g 0.0699
- F_o 2.4420
- T_C^* 0.2902

TU 2018 SLD H



Fattori di partecipazione per il calcolo delle masse

Cond. Carico 1 peso proprio 1.0000

Cond. Carico 2 pesi permanenti 1.0000

Cond. Carico 3 pesi loculi accidentali _250 0.8000

Cond. Carico 4 neve_120 0.0000

Cond. Carico 5 carico _h 0.0000

Cond. Carico 6 folla 0.6000

Angoli d'ingresso del Sisma

- SLV Direzione 1 Angolo in pianta 0.00 [°]
- SLV Direzione 2 Angolo in pianta 0.00 [°]
- SLV Direzione 3 Angolo in pianta 90.00 [°]
- SLV Direzione 4 Angolo in pianta 90.00 [°]
- SLV Direzione 5 Angolo in pianta 180.00 [°]
- SLV Direzione 6 Angolo in pianta 180.00 [°]
- SLV Direzione 7 Angolo in pianta 270.00 [°]
- SLV Direzione 8 Angolo in pianta 270.00 [°]
- SLD Direzione 9 Angolo in pianta 0.00 [°]

- SLD Direzione 10 Angolo in pianta 0.00 [°]
- SLD Direzione 11 Angolo in pianta 90.00 [°]
- SLD Direzione 12 Angolo in pianta 90.00 [°]
- SLD Direzione 13 Angolo in pianta 180.00 [°]
- SLD Direzione 14 Angolo in pianta 180.00 [°]
- SLD Direzione 15 Angolo in pianta 270.00 [°]
- SLD Direzione 16 Angolo in pianta 270.00 [°]

Solaio	x [m]	y [m]	z [m]	Massa [UTM]	Jpolare [UTM m²]
1	6.33	6.59	5.01	5152.8	94162.4

Rigidezze traslanti dei solai.

Solaio	Kxx [kg/m]	Kyy [kg/m]	Kxy [kg/m]	Kxt [kgm]	Kyt [kgm]
1	3.3e+07	2.9e+07	-5.0e+06	-1.1e+07	-1.3e+07

Direzione d'ingresso 1 angolo 0.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	6.90475e+03	83.095	0.08	0.3562
2	4.81193e+03	69.368	0.09	0.3853
3	1.32509e+04	115.113	0.05	0.3154

Direzione d'ingresso 2 angolo 0.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	6.90891e+03	83.120	0.08	0.3562
2	4.98039e+03	70.572	0.09	0.3823
3	1.27950e+04	113.115	0.06	0.3172

Direzione d'ingresso 3 angolo 90.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	4.82788e+03	69.483	0.09	0.3850
2	7.00040e+03	83.668	0.08	0.3552
3	1.30267e+04	114.134	0.06	0.3163

Direzione d'ingresso 4 angolo 90.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	4.97693e+03	70.547	0.09	0.3823

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
2	6.98629e+03	83.584	0.08	0.3554
3	1.26621e+04	112.526	0.06	0.3178

Direzione d'ingresso 5 angolo 180.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	6.90891e+03	83.120	0.08	0.3562
2	4.98039e+03	70.572	0.09	0.3823
3	1.27950e+04	113.115	0.06	0.3172

Direzione d'ingresso 6 angolo 180.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	6.90475e+03	83.095	0.08	0.3562
2	4.81193e+03	69.368	0.09	0.3853
3	1.32509e+04	115.113	0.05	0.3154

Direzione d'ingresso 7 angolo 270.00 [°] + SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	4.97693e+03	70.547	0.09	0.3823
2	6.98629e+03	83.584	0.08	0.3554
3	1.26621e+04	112.526	0.06	0.3178

Direzione d'ingresso 8 angolo 270.00 [°] - SLV

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	4.82788e+03	69.483	0.09	0.3850
2	7.00040e+03	83.668	0.08	0.3552
3	1.30267e+04	114.134	0.06	0.3163

Direzione d'ingresso 9 angolo 0.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	6.90475e+03	83.095	0.08	0.3562
2	4.81193e+03	69.368	0.09	0.3853
3	1.32509e+04	115.113	0.05	0.3154

Direzione d'ingresso 10 angolo 0.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	6.90891e+03	83.120	0.08	0.3562
2	4.98039e+03	70.572	0.09	0.3823
3	1.27950e+04	113.115	0.06	0.3172

Direzione d'ingresso 11 angolo 90.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	4.82788e+03	69.483	0.09	0.3850
2	7.00040e+03	83.668	0.08	0.3552
3	1.30267e+04	114.134	0.06	0.3163

Direzione d'ingresso 12 angolo 90.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	4.97693e+03	70.547	0.09	0.3823
2	6.98629e+03	83.584	0.08	0.3554
3	1.26621e+04	112.526	0.06	0.3178

Direzione d'ingresso 13 angolo 180.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	6.90891e+03	83.120	0.08	0.3562
2	4.98039e+03	70.572	0.09	0.3823
3	1.27950e+04	113.115	0.06	0.3172

Direzione d'ingresso 14 angolo 180.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	6.90475e+03	83.095	0.08	0.3562
2	4.81193e+03	69.368	0.09	0.3853
3	1.32509e+04	115.113	0.05	0.3154

Direzione d'ingresso 15 angolo 270.00 [°] + SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	4.97693e+03	70.547	0.09	0.3823
2	6.98629e+03	83.584	0.08	0.3554
3	1.26621e+04	112.526	0.06	0.3178

Direzione d'ingresso 16 angolo 270.00 [°] - SLD

Primi autovalori e modi di vibrare della struttura.

Modo	Autovalore	Frequenza [rad/sec]	Periodo [sec]	Coefficiente Risposta
1	4.82788e+03	69.483	0.09	0.3850
2	7.00040e+03	83.668	0.08	0.3552
3	1.30267e+04	114.134	0.06	0.3163

Direzione di Ingresso del Sisma 1 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
1	5.41669e+01	100.0	2.93406e+03	56.9	56.9
2	4.49582e+01	83.0	2.02124e+03	39.2	96.2
3	-1.40534e+01	25.9	1.97498e+02	3.8	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	12.68	0.63	0.00	-0.63	3266.9	0.0	2071.2

Direzione di Ingresso del Sisma 1 Angolo 0.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	1	102.53	-87.43	13978.5			
	2	76.39	93.28	12728.8			
	3	6.11	1.05	-12688.8			
Per Via Statica Equivalente					180.06	0.00	-50213.1
Per Via Modale					142.05	111.94	23665.7
Variazione					-38.01	111.94	73878.8

Direzione di Ingresso del Sisma 2 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
4	5.86377e+01	100.0	3.43838e+03	66.7	66.7

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
5	4.09266e+01	69.8	1.67499e+03	32.5	99.2
6	6.27901e+00	10.7	3.94260e+01	0.8	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	12.68	0.63	-0.00	0.63	-3266.9	-0.0	2071.2

Direzione di Ingresso del Sisma 2 Angolo 0.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	4	120.14	-82.41	-16221.9			
	5	62.81	90.38	-1896.7			
	6	1.23	-1.60	5856.4			
Per Via Statica Equivalente					180.04	0.00	6677.8
Per Via Modale					149.99	104.62	-17292.0
Variazione					-30.05	104.62	-23969.9

Direzione di Ingresso del Sisma 3 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
7	5.85837e+01	100.0	3.43205e+03	66.6	66.6
8	-4.00721e+01	68.4	1.60578e+03	31.2	97.8
9	-1.07225e+01	18.3	1.14971e+02	2.2	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	8.28	0.41	0.41	0.00	-0.0	2133.3	883.2

Direzione di Ingresso del Sisma 3 Angolo 90.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	7	88.91	129.61	15098.9			
	8	-82.98	55.95	4665.5			
	9	0.84	3.57	-9940.3			
Per Via Statica Equivalente					-0.00	194.60	55842.8
Per Via Modale					107.19	152.48	18981.8
Variazione					107.19	-42.11	-36861.0

Direzione di Ingresso del Sisma 4 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
10	5.77091e+01	100.0	3.33034e+03	64.6	64.6
11	-4.26876e+01	74.0	1.82224e+03	35.4	100.0
12	4.66371e-01	0.8	2.17502e-01	0.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	8.28	0.41	-0.41	-0.00	0.0	-2133.3	883.2

Direzione di Ingresso del Sisma 4 Angolo 90.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	10	92.09	124.91	-1934.8			
	11	-85.49	63.52	-6134.7			
	12	-0.09	0.01	444.1			
Per Via Statica Equivalente					-0.00	193.26	-739.6
Per Via Modale					108.39	153.98	-6859.5
Variazione					108.39	-39.28	-6119.8

Direzione di Ingresso del Sisma 5 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
13	-5.86377e+01	100.0	3.43838e+03	66.7	66.7
14	-4.09266e+01	69.8	1.67498e+03	32.5	99.2
15	-6.27902e+00	10.7	3.94261e+01	0.8	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	12.68	0.63	-0.00	0.63	-3266.9	-0.0	2071.2

Direzione di Ingresso del Sisma 5 Angolo 180.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	13	-120.14	82.41	16221.9			
	14	-62.81	-90.38	1896.7			
	15	-1.23	1.60	-5856.4			
Per Via Statica Equivalente					-180.04	-0.00	50206.9
Per Via Modale					-149.99	-104.62	17292.0
Variazione					30.05	-104.62	-32914.9

Direzione di Ingresso del Sisma 6 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
16	-5.41670e+01	100.0	2.93406e+03	56.9	56.9
17	-4.49582e+01	83.0	2.02124e+03	39.2	96.2
18	1.40534e+01	25.9	1.97498e+02	3.8	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	12.68	0.63	0.00	-0.63	3266.9	0.0	2071.2

Direzione di Ingresso del Sisma 6 Angolo 180.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	16	-102.53	87.43	-13978.5			
	17	-76.39	-93.28	-12728.8			
	18	-6.11	-1.05	12688.8			
Per Via Statica Equivalente					-180.06	-0.00	-6678.7
Per Via Modale					-142.05	-111.94	-23665.7
Variazione					38.01	-111.94	-16987.1

Direzione di Ingresso del Sisma 7 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
19	-5.77091e+01	100.0	3.33034e+03	64.6	64.6
20	4.26876e+01	74.0	1.82223e+03	35.4	100.0
21	-4.66369e-01	0.8	2.17500e-01	0.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	8.28	0.41	-0.41	-0.00	0.0	-2133.3	883.2

Direzione di Ingresso del Sisma 7 Angolo 270.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	19	-92.09	-124.91	1934.8			
	20	85.49	-63.52	6134.7			
	21	0.09	-0.01	-444.1			
Per Via Statica Equivalente					0.00	-193.26	-55458.5
Per Via Modale					-108.39	-153.98	6859.4
Variazione					-108.39	39.28	62318.0

Direzione di Ingresso del Sisma 8 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
22	-5.85837e+01	100.0	3.43205e+03	66.6	66.6
23	4.00721e+01	68.4	1.60577e+03	31.2	97.8
24	1.07225e+01	18.3	1.14971e+02	2.2	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	8.28	0.41	0.41	0.00	-0.0	2133.3	883.2

Direzione di Ingresso del Sisma 8 Angolo 270.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	22	-88.91	-129.61	-15098.9			
	23	82.98	-55.95	-4665.5			
	24	-0.84	-3.57	9940.3			
Per Via Statica Equivalente					0.00	-194.60	744.8
Per Via Modale					-107.19	-152.48	-18981.8
Variazione					-107.19	42.11	-19726.6

Direzione di Ingresso del Sisma 9 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
25	5.41669e+01	100.0	2.93406e+03	56.9	56.9
26	4.49582e+01	83.0	2.02124e+03	39.2	96.2
27	-1.40534e+01	25.9	1.97498e+02	3.8	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	12.68	0.63	0.00	-0.63	3266.9	0.0	2071.2

Direzione di Ingresso del Sisma 9 Angolo 0.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	25	43.45	-37.05	5924.2			
	26	32.57	39.77	5426.5			
	27	2.56	0.44	-5323.0			
Per Via Statica Equivalente					76.31	0.00	-21280.9
Per Via Modale					60.34	47.60	10025.4
Variazione					-15.98	47.60	31306.3

Direzione di Ingresso del Sisma 10 Angolo 0.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
28	5.86377e+01	100.0	3.43838e+03	66.7	66.7
29	4.09266e+01	69.8	1.67499e+03	32.5	99.2
30	6.27901e+00	10.7	3.94260e+01	0.8	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 0.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	12.68	0.63	-0.00	0.63	-3266.9	-0.0	2071.2

Direzione di Ingresso del Sisma 10 Angolo 0.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	28	50.91	-34.93	-6875.0			
	29	26.76	38.51	-808.2			
	30	0.52	-0.67	2458.0			
Per Via Statica Equivalente					76.30	0.00	2830.1
Per Via Modale					63.66	44.47	-7324.1
Variazione					-12.65	44.47	-10154.3

Direzione di Ingresso del Sisma 11 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
31	5.85837e+01	100.0	3.43205e+03	66.6	66.6
32	-4.00721e+01	68.4	1.60578e+03	31.2	97.8
33	-1.07225e+01	18.3	1.14971e+02	2.2	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	8.28	0.41	0.41	0.00	-0.0	2133.3	883.2

Direzione di Ingresso del Sisma 11 Angolo 90.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	31	37.90	55.25	6436.6			
	32	-35.16	23.71	1976.8			
	33	0.35	1.50	-4171.1			
Per Via Statica Equivalente					-0.00	82.96	23805.7
Per Via Modale					45.57	64.92	8056.2
Variazione					45.57	-18.04	-15749.4

Direzione di Ingresso del Sisma 12 Angolo 90.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
34	5.77091e+01	100.0	3.33034e+03	64.6	64.6
35	-4.26876e+01	74.0	1.82224e+03	35.4	100.0
36	4.66371e-01	0.8	2.17502e-01	0.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 90.00

Solaio	Ingombro in Pianta	Larghezza Apparente	Eccentricità	dxG	dyG	Sx	Sy	dJp

	B [m]	H [m]	[m]	[m]	[m]	[m]	[UTM]x[m]	[UTM]x[m]	[UTM m²]
1	8.28	12.68	8.28	0.41	-0.41	-0.00	0.0	-2133.3	883.2

Direzione di Ingresso del Sisma 12 Angolo 90.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	34	39.24	53.22	-824.4			
	35	-36.22	26.92	-2599.5			
	36	-0.04	0.00	186.4			
Per Via Statica Equivalente					-0.00	82.34	-315.1
Per Via Modale					46.07	65.52	-2908.9
Variazione					46.07	-16.83	-2593.8

Direzione di Ingresso del Sisma 13 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
37	-5.86377e+01	100.0	3.43838e+03	66.7	66.7
38	-4.09266e+01	69.8	1.67498e+03	32.5	99.2
39	-6.27902e+00	10.7	3.94261e+01	0.8	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	12.68	0.63	-0.00	0.63	-3266.9	-0.0	2071.2

Direzione di Ingresso del Sisma 13 Angolo 180.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	37	-50.91	34.93	6875.0			
	38	-26.76	-38.51	808.2			
	39	-0.52	0.67	-2458.0			
Per Via Statica Equivalente					-76.30	-0.00	21278.0
Per Via Modale					-63.66	-44.47	7324.1
Variazione					12.65	-44.47	-13953.9

Direzione di Ingresso del Sisma 14 Angolo 180.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
40	-5.41670e+01	100.0	2.93406e+03	56.9	56.9
41	-4.49582e+01	83.0	2.02124e+03	39.2	96.2
42	1.40534e+01	25.9	1.97498e+02	3.8	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 180.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	12.68	0.63	0.00	-0.63	3266.9	0.0	2071.2

Direzione di Ingresso del Sisma 14 Angolo 180.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	40	-43.45	37.05	-5924.2			
	41	-32.57	-39.77	-5426.5			
	42	-2.56	-0.44	5323.0			
Per Via Statica Equivalente					-76.31	-0.00	-2830.5
Per Via Modale					-60.34	-47.60	-10025.4
Variazione					15.98	-47.60	-7194.9

Direzione di Ingresso del Sisma 15 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
43	-5.77091e+01	100.0	3.33034e+03	64.6	64.6
44	4.26876e+01	74.0	1.82223e+03	35.4	100.0
45	-4.66369e-01	0.8	2.17500e-01	0.0	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	8.28	0.41	-0.41	-0.00	0.0	-2133.3	883.2

Direzione di Ingresso del Sisma 15 Angolo 270.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	43	-39.24	-53.22	824.4			
	44	36.22	-26.92	2599.5			
	45	0.04	-0.00	-186.4			
Per Via Statica Equivalente					0.00	-82.34	-23630.0
Per Via Modale					-46.07	-65.52	2908.9
Variazione					-46.07	16.83	26539.0

Direzione di Ingresso del Sisma 16 Angolo 270.00

Coefficienti di partecipazione e masse modali efficaci per i vari modi di vibrare:

Modo	Li(gi)	|Li|/|L1|	Emi=Li^2/Mi	Emi/EmTot	Sum.Emi/EmTot
46	-5.85837e+01	100.0	3.43205e+03	66.6	66.6
47	4.00721e+01	68.4	1.60577e+03	31.2	97.8
48	1.07225e+01	18.3	1.14971e+02	2.2	100.0

Variazioni Matrice delle Masse Solai Direzione d'ingresso 270.00

Solaio	Ingombro in Pianta B [m]	H [m]	Larghezza Apparente [m]	Eccentricità [m]	dxG [m]	dyG [m]	Sx [UTM]x[m]	Sy [UTM]x[m]	dJp [UTM m²]
1	8.28	12.68	8.28	0.41	0.41	0.00	-0.0	2133.3	883.2

Direzione di Ingresso del Sisma 16 Angolo 270.00 [°]

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
1	46	-37.90	-55.25	-6436.6			
	47	35.16	-23.71	-1976.8			
	48	-0.35	-1.50	4171.1			
Per Via Statica Equivalente					0.00	-82.96	317.5

Solaio	Modo	Fx [kN]	Fy [kN]	Mt [kgm]	Fx Ris. [kN]	Fy Ris. [kN]	Mt Ris. [kgm]
Per Via Modale					-45.57	-64.92	-8056.2
Variazione					-45.57	18.04	-8373.7

Componenti di spostamento Modale

Nodo	Modo	Ux	Uy	Uz	Rx	Ry	Rz
1	1	6.8891568584e-03	-5.4345071825e-03	7.4244182427e-04	4.7008482038e-04	1.1892322897e-03	2.2431608650e-04
	2	5.9271636942e-03	1.2053013732e-03	2.5516882912e-03	-8.3657442086e-05	1.1637974614e-03	3.8285660890e-04
	3	8.0727778570e-03	-6.9906102140e-03	1.6662894701e-03	-6.0531272535e-05	1.5288893628e-03	1.3204389735e-03
	4	4.4586145096e-03	-3.1334237170e-03	3.3830309647e-04	4.4965622581e-04	7.3867656805e-04	-1.3056402292e-04
	5	4.5653306766e-03	2.3371249637e-03	2.3255031943e-03	-1.1620734367e-04	9.1532790287e-04	2.3447772018e-04
	6	1.2406814554e-02	-8.5768683286e-03	2.6287203930e-03	1.4999112068e-04	2.3057152755e-03	1.4120021156e-03
	7	5.5128535538e-03	1.5271361750e-03	2.5052932581e-03	-1.1143349347e-04	1.0921401137e-03	3.6907487861e-04
	8	5.5714736350e-03	-3.7895288575e-03	6.0194514160e-04	4.5967105634e-04	9.4685077899e-04	-9.9393878666e-06
	9	1.0437764866e-02	-8.6416670244e-03	1.9458988031e-03	1.1294818154e-04	1.9354962800e-03	1.3557548589e-03
	10	4.7325286373e-03	2.2170341129e-03	2.3488443064e-03	-1.0676265467e-04	9.4469554333e-04	2.4190306356e-04
	11	6.7939070159e-03	-4.9027828408e-03	8.1675600243e-04	4.6813606230e-04	1.1740914042e-03	1.6696537810e-04
	12	1.0055592735e-02	-6.9720063698e-03	2.3562608922e-03	-3.1008558782e-05	1.9032206388e-03	1.3945102167e-03
	13	4.4586144789e-03	-3.1334237372e-03	3.3830307968e-04	4.4965622675e-04	7.3867656183e-04	-1.3056402430e-04
	14	4.5653305846e-03	2.3371250308e-03	2.3255031724e-03	-1.1620734275e-04	9.1532788533e-04	2.3447770604e-04
	15	1.2406814655e-02	-8.5768682630e-03	2.6287204484e-03	1.4999111747e-04	2.3057152960e-03	1.4120021204e-03
	16	6.8891568090e-03	-5.4345071740e-03	7.4244180669e-04	4.7008482109e-04	1.1892322801e-03	2.2431608138e-04
	17	5.9271637732e-03	1.2053012924e-03	2.5516883019e-03	-8.3657440616e-05	1.1637974758e-03	3.8285661974e-04
	18	8.0727777701e-03	-6.9906102799e-03	1.6662894191e-03	-6.0531268643e-05	1.5288893449e-03	1.3204389685e-03
	19	4.7325286085e-03	2.2170341341e-03	2.3488442995e-03	-1.0676265425e-04	9.4469553780e-04	2.4190305890e-04
	20	6.7939071793e-03	-4.9027829594e-03	8.1675604035e-04	4.6813606135e-04	1.1740914352e-03	1.6696540203e-04
	21	1.0055592570e-02	-6.9720062008e-03	2.3562608891e-03	-3.1008574575e-05	1.9032206116e-03	1.3945102148e-03
	22	5.5128535540e-03	1.5271361655e-03	2.5052932592e-03	-1.1143349540e-04	1.0921401141e-03	3.6907488272e-04
	23	5.5714735046e-03	-3.7895287043e-03	6.0194512873e-04	4.5967105334e-04	9.4685075540e-04	-9.9394068571e-06
	24	1.0437765001e-02	-8.6416671648e-03	1.9458988024e-03	1.1294819643e-04	1.9354963019e-03	1.3557548575e-03
	25	6.8891568584e-03	-5.4345071825e-03	7.4244182427e-04	4.7008482038e-04	1.1892322897e-03	2.2431608650e-04
	26	5.9271636942e-03	1.2053013732e-03	2.5516882912e-03	-8.3657442086e-05	1.1637974614e-03	3.8285660890e-04
	27	8.0727778570e-03	-6.9906102140e-03	1.6662894701e-03	-6.0531272535e-05	1.5288893628e-03	1.3204389735e-03
	28	4.4586145096e-03	-3.1334237170e-03	3.3830309647e-04	4.4965622581e-04	7.3867656805e-04	-1.3056402292e-04
	29	4.5653306766e-03	2.3371249637e-03	2.3255031943e-03	-1.1620734367e-04	9.1532790287e-04	2.3447772018e-04
	30	1.2406814554e-02	-8.5768683286e-03	2.6287203930e-03	1.4999112068e-04	2.3057152755e-03	1.4120021156e-03
	31	5.5128535538e-03	1.5271361750e-03	2.5052932581e-03	-1.1143349347e-04	1.0921401137e-03	3.6907487861e-04
	32	5.5714736350e-03	-3.7895288575e-03	6.0194514160e-04	4.5967105634e-04	9.4685077899e-04	-9.9393878666e-06
	33	1.0437764866e-02	-8.6416670244e-03	1.9458988031e-03	1.1294818154e-04	1.9354962800e-03	1.3557548589e-03
	34	4.7325286373e-03	2.2170341129e-03	2.3488443064e-03	-1.0676265467e-04	9.4469554333e-04	2.4190306356e-04
	35	6.7939070159e-03	-4.9027828408e-03	8.1675600243e-04	4.6813606230e-04	1.1740914042e-03	1.6696537810e-04
	36	1.0055592735e-02	-6.9720063698e-03	2.3562608922e-03	-3.1008558782e-05	1.9032206388e-03	1.3945102167e-03
	37	4.4586144789e-03	-3.1334237372e-03	3.3830307968e-04	4.4965622675e-04	7.3867656183e-04	-1.3056402430e-04
	38	4.5653305846e-03	2.3371250308e-03	2.3255031724e-03	-1.1620734275e-04	9.1532788533e-04	2.3447770604e-04
	39	1.2406814655e-02	-8.5768682630e-03	2.6287204484e-03	1.4999111747e-04	2.3057152960e-03	1.4120021204e-03
	40	6.8891568090e-03	-5.4345071740e-03	7.4244180669e-04	4.7008482109e-04	1.1892322801e-03	2.2431608138e-04
	41	5.9271637732e-03	1.2053012924e-03	2.5516883019e-03	-8.3657440616e-05	1.1637974758e-03	3.8285661974e-04
	42	8.0727777701e-03	-6.9906102799e-03	1.6662894191e-03	-6.0531268643e-05	1.5288893449e-03	1.3204389685e-03
	43	4.7325286085e-03	2.2170341341e-03	2.3488442995e-03	-1.0676265425e-04	9.4469553780e-04	2.4190305890e-04
	44	6.7939071793e-03	-4.9027829594e-03	8.1675604035e-04	4.6813606135e-04	1.1740914352e-03	1.6696540203e-04
	45	1.0055592570e-02	-6.9720062008e-03	2.3562608891e-03	-3.1008574575e-05	1.9032206116e-03	1.3945102148e-03
	46	5.5128535540e-03	1.5271361655e-03	2.5052932592e-03	-1.1143349540e-04	1.0921401141e-03	3.6907488272e-04
	47	5.5714735046e-03	-3.7895287043e-03	6.0194512873e-04	4.5967105334e-04	9.4685075540e-04	-9.9394068571e-06
	48	1.0437765001e-02	-8.6416671648e-03	1.9458988024e-03	1.1294819643e-04	1.9354963019e-03	1.3557548575e-03

2	1	6.9384969277e-03	-4.7465352359e-03	-1.9164183568e-03	4.7332273521e-04	7.5574953532e-04	2.5647010758e-04
	2	5.9584213641e-03	2.2858666169e-03	-2.6900972218e-04	-9.9755757880e-05	8.9540338414e-04	4.2190346126e-04
	3	8.1658395263e-03	-3.2364232671e-03	-1.7136587837e-03	4.1454449489e-04	9.1147622601e-04	1.3692635366e-03
	4	4.4807103927e-03	-3.4582981630e-03	-1.3315395825e-03	3.2505147940e-04	4.9125748694e-04	-1.1231354136e-04
	5	4.5833786112e-03	2.9917162665e-03	5.6698194321e-05	-1.7924300020e-04	7.4331456123e-04	2.6606619711e-04
	6	1.2523992487e-02	-4.5402235855e-03	-2.5577220837e-03	5.7387510299e-04	1.4581025601e-03	1.4833562126e-03
	7	5.5411493253e-03	2.5655496307e-03	-1.5501091743e-04	-1.2776722832e-04	8.4973856654e-04	4.0617684758e-04
	8	5.6035585529e-03	-3.7698733391e-03	-1.5404897859e-03	3.6850730704e-04	6.2630000864e-04	1.4819529544e-05
	9	1.0545819658e-02	-4.7688028198e-03	-2.3517958600e-03	5.6727592160e-04	1.1775255884e-03	1.4154757264e-03
	10	4.7518021523e-03	2.8937572214e-03	1.3963334202e-05	-1.6906081217e-04	7.6222545040e-04	2.7431309451e-04
	11	6.8395155036e-03	-4.3784187956e-03	-1.8262030959e-03	4.3982084476e-04	7.6101824378e-04	1.9876790665e-04
	12	1.0158528601e-02	-3.0040591778e-03	-1.9200546782e-03	4.2180658266e-04	1.1929805918e-03	1.4551760736e-03
	13	4.4807103619e-03	-3.4582981871e-03	-1.3315395837e-03	3.2505148093e-04	4.9125748177e-04	-1.1231354296e-04
	14	4.5833785182e-03	2.9917162934e-03	5.6698211716e-05	-1.7924300407e-04	7.4331455038e-04	2.6606618241e-04
	15	1.2523992589e-02	-4.5402235065e-03	-2.5577220798e-03	5.7387509797e-04	1.4581025772e-03	1.4833562182e-03
	16	6.9384968779e-03	-4.7465352419e-03	-1.9164183517e-03	4.7332273489e-04	7.5574952851e-04	2.5647010214e-04
	17	5.9584214440e-03	2.2858665671e-03	-2.6900974292e-04	-9.9755752452e-05	8.9540339246e-04	4.2190347254e-04
	18	8.1658394391e-03	-3.2364233468e-03	-1.7136587898e-03	4.1454450013e-04	9.1147621097e-04	1.3692635310e-03
	19	4.7518021231e-03	2.8937572294e-03	1.3963339571e-05	-1.6906081336e-04	7.6222544699e-04	2.7431308967e-04
	20	6.8395156689e-03	-4.3784188462e-03	-1.8262031275e-03	4.3982085181e-04	7.6101826302e-04	1.9876793158e-04
	21	1.0158528435e-02	-3.0040590161e-03	-1.9200546218e-03	4.2180656760e-04	1.1929805755e-03	1.4551760709e-03
	22	5.5411493257e-03	2.5655496328e-03	-1.5501091689e-04	-1.2776722830e-04	8.4973856638e-04	4.0617685173e-04
	23	5.6035584209e-03	-3.7698732403e-03	-1.5404897481e-03	3.6850729668e-04	6.2629999564e-04	1.4819509854e-05
	24	1.0545819794e-02	-4.7688029624e-03	-2.3517959084e-03	5.6727593463e-04	1.1775256016e-03	1.4154757256e-03
	25	6.9384969277e-03	-4.7465352359e-03	-1.9164183568e-03	4.7332273521e-04	7.5574953532e-04	2.5647010758e-04
	26	5.9584213641e-03	2.2858666169e-03	-2.6900972218e-04	-9.9755757880e-05	8.9540338414e-04	4.2190346126e-04
	27	8.1658395263e-03	-3.2364232671e-03	-1.7136587837e-03	4.1454449489e-04	9.1147622601e-04	1.3692635366e-03
	28	4.4807103927e-03	-3.4582981630e-03	-1.3315395825e-03	3.2505147940e-04	4.9125748694e-04	-1.1231354136e-04
	29	4.5833786112e-03	2.9917162665e-03	5.6698194321e-05	-1.7924300020e-04	7.4331456123e-04	2.6606619711e-04
	30	1.2523992487e-02	-4.5402235855e-03	-2.5577220837e-03	5.7387510299e-04	1.4581025601e-03	1.4833562126e-03
	31	5.5411493253e-03	2.5655496307e-03	-1.5501091743e-04	-1.2776722832e-04	8.4973856654e-04	4.0617684758e-04
	32	5.6035585529e-03	-3.7698733391e-03	-1.5404897859e-03	3.6850730704e-04	6.2630000864e-04	1.4819529544e-05
	33	1.0545819658e-02	-4.7688028198e-03	-2.3517958600e-03	5.6727592160e-04	1.1775255884e-03	1.4154757264e-03
	34	4.7518021523e-03	2.8937572214e-03	1.3963334202e-05	-1.6906081217e-04	7.6222545040e-04	2.7431309451e-04
	35	6.8395155036e-03	-4.3784187956e-03	-1.8262030959e-03	4.3982084476e-04	7.6101824378e-04	1.9876790665e-04
	36	1.0158528601e-02	-3.0040591778e-03	-1.9200546782e-03	4.2180658266e-04	1.1929805918e-03	1.4551760736e-03
	37	4.4807103619e-03	-3.4582981871e-03	-1.3315395837e-03	3.2505148093e-04	4.9125748177e-04	-1.1231354296e-04
	38	4.5833785182e-03	2.9917162934e-03	5.6698211716e-05	-1.7924300407e-04	7.4331455038e-04	2.6606618241e-04
	39	1.2523992589e-02	-4.5402235065e-03	-2.5577220798e-03	5.7387509797e-04	1.4581025772e-03	1.4833562182e-03
	40	6.9384968779e-03	-4.7465352419e-03	-1.9164183517e-03	4.7332273489e-04	7.5574952851e-04	2.5647010214e-04
	41	5.9584214440e-03	2.2858665671e-03	-2.6900974292e-04	-9.9755752452e-05	8.9540339246e-04	4.2190347254e-04
	42	8.1658394391e-03	-3.2364233468e-03	-1.7136587898e-03	4.1454450013e-04	9.1147621097e-04	1.3692635310e-03
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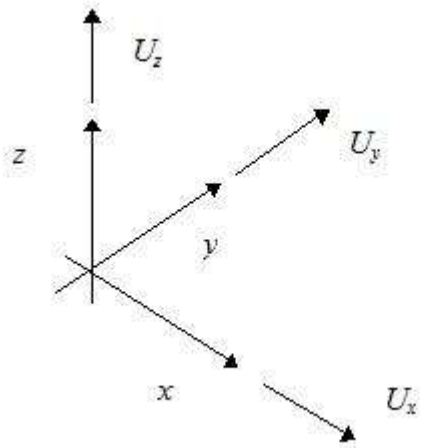
	24	-2.0104478049e-02	1.1727101677e-02	2.5632442628e-03	-1.5259108417e-03	-6.2230232127e-03	3.2202119544e-03
	25	7.6907011470e-03	-6.9908555042e-03	-1.9886705082e-03	9.6812610706e-04	6.8352097354e-04	4.1957418551e-04
	26	5.4107398401e-03	1.2971251191e-02	1.5357099742e-03	-1.8392219515e-03	2.4456537258e-03	4.9286107914e-04
	27	-2.4204888937e-02	1.4550954786e-02	3.4015674434e-03	-1.9109111791e-03	-6.8622825192e-03	3.1938992353e-03
	28	1.3813712267e-02	-9.9033311414e-03	-2.6995546434e-03	1.3420219653e-03	2.5598740857e-03	-4.4605434266e-04
	29	7.1551496427e-03	1.2106759321e-02	1.3636028375e-03	-1.7297128905e-03	3.0623969190e-03	1.4431319898e-04
	30	-1.6378427372e-02	1.3572255316e-02	2.5492866481e-03	-1.7987973851e-03	-5.1001267806e-03	3.2249272999e-03
	31	4.9532800131e-03	1.3372564456e-02	1.6518163681e-03	-1.8947732893e-03	2.4038724493e-03	4.6718780614e-04
	32	1.2621009515e-02	-8.5428369090e-03	-2.4629779045e-03	1.1591364169e-03	2.2052589794e-03	-1.7865430393e-04
	33	-2.0104478351e-02	1.1727102030e-02	2.5632443467e-03	-1.5259108903e-03	-6.2230232477e-03	3.2202119587e-03
	34	7.2898685255e-03	1.2011951725e-02	1.3308757607e-03	-1.7165216628e-03	3.0716271108e-03	1.5879397916e-04
	35	9.6253634639e-03	-7.0047379061e-03	-2.0980462428e-03	9.6033952526e-04	1.2962843910e-03	2.5012821851e-04
	36	-2.1029149139e-02	1.6693353087e-02	3.4685174445e-03	-2.2229918854e-03	-5.8774732253e-03	3.2453300621e-03

37	1.3813712209e-02	-9.9033312294e-03	-2.6995546531e-03	1.3420219779e-03	2.5598740613e-03	-4.4605434286e-04
38	7.1551498802e-03	1.2106759145e-02	1.3636027993e-03	-1.7297128671e-03	3.0623969841e-03	1.4431316563e-04
39	-1.6378427191e-02	1.3572255611e-02	2.5492866813e-03	-1.7987974273e-03	-5.1001267026e-03	3.2249273013e-03
40	7.6907011764e-03	-6.9908556105e-03	-1.9886705250e-03	9.6812612177e-04	6.8352097656e-04	4.1957417544e-04
41	5.4107396577e-03	1.2971251254e-02	1.5357099911e-03	-1.8392219594e-03	2.4456536664e-03	4.9286110589e-04
42	-2.4204889074e-02	1.4550954490e-02	3.4015674066e-03	-1.9109111370e-03	-6.8622825854e-03	3.1938992324e-03
43	7.2898686072e-03	1.2011951666e-02	1.3308757475e-03	-1.7165216549e-03	3.0716271329e-03	1.5879396811e-04
44	9.6253630786e-03	-7.0047376188e-03	-2.0980461812e-03	9.6033948708e-04	1.2962842838e-03	2.5012827478e-04
45	-2.1029149397e-02	1.6693353429e-02	3.4685175256e-03	-2.2229919329e-03	-5.8774732442e-03	3.2453300583e-03
46	4.9532798787e-03	1.3372564527e-02	1.6518163877e-03	-1.8947732987e-03	2.4038724158e-03	4.6718781706e-04
47	1.2621009866e-02	-8.5428369901e-03	-2.4629779314e-03	1.1591364262e-03	2.2052590958e-03	-1.7865435200e-04
48	-2.0104478049e-02	1.1727101677e-02	2.5632442628e-03	-1.5259108417e-03	-6.2230232127e-03	3.2202119544e-03

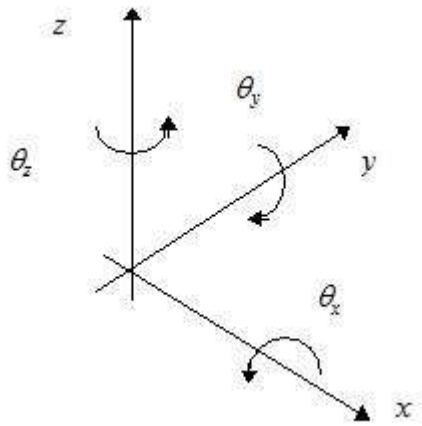
Spostamenti nodali

Convenzioni adottate

La terna di riferimento generale è destrorsa per cui si hanno i seguenti segni positivi per le componenti di spostamento nodale:



e per quanto riguarda le rotazioni:



Nel seguito vengono riportate, per ogni nodo (con esclusione dei nodi *K* che definiscono l'orientamento delle aste e quindi, essendo bloccati, hanno componenti di spostamento nulle), le componenti di spostamento in tutte le combinazioni di carico definite.

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
1	SLU Statiche -	-0.00	0.00	-0.11	-0.01	-0.00	0.00
	SLU Statiche +	-0.00	0.01	-0.10	-0.01	0.00	0.00
	SLV -	-0.04	-0.02	-0.09	-0.00	-0.00	-0.00
	SLV +	0.04	0.02	-0.06	-0.00	0.00	0.00
	SLE Rare -	-0.00	0.00	-0.08	-0.00	-0.00	0.00
	SLE Rare +	-0.00	0.00	-0.08	-0.00	-0.00	0.00
	SLE Frequenti -	-0.00	0.00	-0.07	-0.00	-0.00	0.00
	SLE Frequenti +	-0.00	0.00	-0.07	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.00	0.00	-0.07	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.00	0.00	-0.07	-0.00	-0.00	0.00
	SLD -	-0.02	-0.01	-0.08	-0.00	-0.00	0.00
	SLD +	0.01	0.01	-0.07	-0.00	0.00	0.00
2	SLU Statiche -	-0.00	0.01	-0.10	-0.01	-0.00	0.00
	SLU Statiche +	-0.00	0.01	-0.10	-0.01	-0.00	0.00
	SLV -	-0.04	-0.01	-0.08	-0.01	-0.00	-0.00
	SLV +	0.04	0.03	-0.06	-0.00	0.00	0.00
	SLE Rare -	-0.00	0.01	-0.07	-0.00	-0.00	0.00
	SLE Rare +	-0.00	0.01	-0.07	-0.00	-0.00	0.00
	SLE Frequenti -	-0.00	0.01	-0.07	-0.00	-0.00	0.00
	SLE Frequenti +	-0.00	0.01	-0.07	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.00	0.01	-0.07	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.00	0.01	-0.07	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.07	-0.00	-0.00	0.00
	SLD +	0.01	0.02	-0.07	-0.00	-0.00	0.00
3	SLU Statiche -	-0.00	0.01	-0.10	-0.01	0.00	0.00
	SLU Statiche +	-0.00	0.01	-0.10	-0.01	0.00	0.00
	SLV -	-0.04	-0.01	-0.08	-0.01	0.00	-0.00
	SLV +	0.04	0.03	-0.06	-0.00	0.00	0.00
	SLE Rare -	-0.00	0.01	-0.07	-0.01	0.00	0.00
	SLE Rare +	-0.00	0.01	-0.07	-0.01	0.00	0.00
	SLE Frequenti -	-0.00	0.01	-0.07	-0.01	0.00	0.00
	SLE Frequenti +	-0.00	0.01	-0.07	-0.01	0.00	0.00
	SLE Quasi Permanenti -	-0.00	0.01	-0.07	-0.01	0.00	0.00
	SLE Quasi Permanenti +	-0.00	0.01	-0.07	-0.01	0.00	0.00
	SLD -	-0.02	-0.00	-0.07	-0.01	0.00	-0.00
	SLD +	0.01	0.02	-0.07	-0.01	0.00	0.00
4	SLU Statiche -	-0.00	0.02	-0.16	-0.01	0.02	0.00
	SLU Statiche +	-0.00	0.02	-0.15	-0.01	0.03	0.00
	SLV -	-0.04	-0.02	-0.12	-0.01	0.02	-0.00
	SLV +	0.04	0.04	-0.10	-0.00	0.02	0.00
	SLE Rare -	-0.00	0.01	-0.11	-0.01	0.02	0.00
	SLE Rare +	-0.00	0.01	-0.11	-0.01	0.02	0.00
	SLE Frequenti -	-0.00	0.01	-0.10	-0.00	0.02	0.00
	SLE Frequenti +	-0.00	0.01	-0.10	-0.00	0.02	0.00
	SLE Quasi Permanenti -	-0.00	0.01	-0.10	-0.00	0.02	0.00
	SLE Quasi Permanenti +	-0.00	0.01	-0.10	-0.00	0.02	0.00
	SLD -	-0.02	-0.00	-0.11	-0.01	0.02	-0.00
	SLD +	0.01	0.02	-0.11	-0.01	0.02	0.00
5	SLU Statiche -	-0.01	0.01	-0.13	-0.00	-0.00	0.00
	SLU Statiche +	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLV -	-0.04	-0.02	-0.10	-0.00	-0.00	-0.00
	SLV +	0.03	0.02	-0.07	-0.00	0.00	0.00
	SLE Rare -	-0.01	0.00	-0.09	-0.00	-0.00	0.00
	SLE Rare +	-0.00	0.00	-0.09	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.00	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.00	-0.09	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Quasi Permanenti -	-0.01	0.00	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.00	-0.09	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.09	-0.00	-0.00	0.00
	SLD +	0.01	0.01	-0.08	-0.00	0.00	0.00
6	SLU Statiche -	-0.01	0.01	-0.13	-0.01	-0.00	0.00
	SLU Statiche +	-0.01	0.01	-0.12	-0.01	-0.00	0.00
	SLV -	-0.04	-0.01	-0.09	-0.00	-0.00	-0.00
	SLV +	0.03	0.03	-0.08	-0.00	0.00	0.00
	SLE Rare -	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Rare +	-0.00	0.01	-0.09	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.00	0.01	-0.08	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.09	-0.00	-0.00	-0.00
	SLD +	0.01	0.02	-0.08	-0.00	0.00	0.00
7	SLU Statiche -	-0.01	0.01	-0.12	-0.00	0.00	0.00
	SLU Statiche +	-0.01	0.01	-0.12	-0.00	0.00	0.00
	SLV -	-0.04	-0.01	-0.09	-0.00	0.00	-0.00
	SLV +	0.03	0.03	-0.08	-0.00	0.00	0.00
	SLE Rare -	-0.01	0.01	-0.09	-0.00	0.00	0.00
	SLE Rare +	-0.00	0.01	-0.09	-0.00	0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.08	-0.00	0.00	0.00
	SLE Frequenti +	-0.00	0.01	-0.08	-0.00	0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.08	-0.00	0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.08	-0.00	0.00	0.00
	SLD -	-0.02	-0.00	-0.09	-0.00	0.00	-0.00
	SLD +	0.01	0.02	-0.08	-0.00	0.00	0.00
8	SLU Statiche -	-0.01	0.02	-0.17	-0.00	0.02	0.00
	SLU Statiche +	-0.01	0.02	-0.16	-0.00	0.02	0.00
	SLV -	-0.04	-0.02	-0.13	-0.00	0.02	-0.00
	SLV +	0.03	0.04	-0.12	-0.00	0.02	0.00
	SLE Rare -	-0.00	0.01	-0.12	-0.00	0.01	0.00
	SLE Rare +	-0.00	0.01	-0.12	-0.00	0.02	0.00
	SLE Frequenti -	-0.01	0.01	-0.12	-0.00	0.01	0.00
	SLE Frequenti +	-0.00	0.01	-0.11	-0.00	0.02	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.11	-0.00	0.01	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.11	-0.00	0.01	0.00
	SLD -	-0.02	-0.00	-0.13	-0.00	0.02	-0.00
	SLD +	0.01	0.02	-0.12	-0.00	0.02	0.00
9	SLU Statiche -	-0.01	0.01	-0.15	-0.00	-0.00	0.00
	SLU Statiche +	-0.01	0.01	-0.14	-0.00	-0.00	0.00
	SLV -	-0.04	-0.02	-0.11	-0.00	-0.00	-0.00
	SLV +	0.02	0.02	-0.09	-0.00	0.00	0.00
	SLE Rare -	-0.01	0.00	-0.10	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.00	-0.10	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.00	-0.10	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.00	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.00	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.00	-0.10	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.11	-0.00	-0.00	-0.00
	SLD +	0.01	0.01	-0.09	-0.00	0.00	0.00
10	SLU Statiche -	-0.01	0.01	-0.14	-0.00	-0.00	0.00
	SLU Statiche +	-0.01	0.01	-0.13	-0.00	-0.00	0.00
	SLV -	-0.04	-0.01	-0.10	-0.00	-0.00	-0.00
	SLV +	0.02	0.03	-0.09	-0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Rare -	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.10	-0.00	-0.00	-0.00
	SLD +	0.01	0.02	-0.09	-0.00	-0.00	0.00
11	SLU Statiche -	-0.01	0.01	-0.13	0.00	-0.00	0.00
	SLU Statiche +	-0.01	0.01	-0.12	0.00	-0.00	0.00
	SLV -	-0.04	-0.01	-0.10	0.00	-0.00	-0.00
	SLV +	0.02	0.03	-0.08	0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.09	0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.09	0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.09	0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.09	0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.09	0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.09	0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.09	0.00	-0.00	-0.00
	SLD +	0.01	0.02	-0.09	0.00	-0.00	0.00
12	SLU Statiche -	-0.01	0.02	-0.16	0.01	0.02	0.00
	SLU Statiche +	-0.01	0.02	-0.15	0.01	0.02	0.00
	SLV -	-0.04	-0.02	-0.12	0.00	0.01	-0.00
	SLV +	0.02	0.04	-0.11	0.01	0.02	0.00
	SLE Rare -	-0.01	0.01	-0.12	0.00	0.01	0.00
	SLE Rare +	-0.01	0.01	-0.11	0.00	0.01	0.00
	SLE Frequenti -	-0.01	0.01	-0.11	0.00	0.01	0.00
	SLE Frequenti +	-0.01	0.01	-0.11	0.00	0.01	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.11	0.00	0.01	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.11	0.00	0.01	0.00
	SLD -	-0.02	-0.00	-0.12	0.00	0.01	-0.00
	SLD +	0.01	0.02	-0.11	0.00	0.01	0.00
13	SLU Statiche -	-0.01	0.01	-0.15	0.01	0.01	0.00
	SLU Statiche +	-0.01	0.02	-0.14	0.01	0.02	0.00
	SLV -	-0.03	-0.02	-0.11	0.01	0.01	-0.00
	SLV +	0.02	0.04	-0.10	0.01	0.01	0.00
	SLE Rare -	-0.01	0.01	-0.11	0.01	0.01	0.00
	SLE Rare +	-0.01	0.01	-0.10	0.01	0.01	0.00
	SLE Frequenti -	-0.01	0.01	-0.10	0.01	0.01	0.00
	SLE Frequenti +	-0.01	0.01	-0.10	0.01	0.01	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.10	0.01	0.01	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.10	0.01	0.01	0.00
	SLD -	-0.02	-0.00	-0.11	0.01	0.01	-0.00
	SLD +	0.00	0.02	-0.11	0.01	0.01	0.00
14	SLU Statiche -	-0.01	0.01	-0.13	-0.00	-0.01	0.00
	SLU Statiche +	-0.01	0.01	-0.12	-0.00	-0.01	0.00
	SLV -	-0.03	-0.01	-0.09	-0.00	-0.00	-0.00
	SLV +	0.02	0.03	-0.08	0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.09	-0.00	-0.00	-0.00
	SLD +	0.00	0.02	-0.08	0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
15	SLU Statiche -	-0.01	0.02	-0.14	0.01	0.01	0.00
	SLU Statiche +	-0.01	0.02	-0.14	0.01	0.01	0.00
	SLV -	-0.03	-0.02	-0.11	0.01	0.01	-0.00
	SLV +	0.02	0.04	-0.10	0.01	0.01	0.00
	SLE Rare -	-0.01	0.01	-0.10	0.01	0.01	0.00
	SLE Rare +	-0.01	0.01	-0.10	0.01	0.01	0.00
	SLE Frequenti -	-0.01	0.01	-0.10	0.01	0.01	0.00
	SLE Frequenti +	-0.01	0.01	-0.09	0.01	0.01	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.09	0.01	0.01	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.09	0.01	0.01	0.00
	SLD -	-0.02	-0.00	-0.10	0.01	0.01	-0.00
	SLD +	0.00	0.02	-0.10	0.01	0.01	0.00
16	SLU Statiche -	-0.01	0.01	-0.15	-0.00	-0.00	0.00
	SLU Statiche +	-0.01	0.01	-0.14	-0.00	-0.00	0.00
	SLV -	-0.03	-0.01	-0.10	-0.00	-0.01	-0.00
	SLV +	0.02	0.03	-0.10	-0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.10	-0.00	-0.00	-0.00
	SLD +	0.00	0.02	-0.10	-0.00	-0.00	0.00
17	SLU Statiche -	-0.01	0.02	-0.14	0.01	0.01	0.00
	SLU Statiche +	-0.01	0.02	-0.13	0.01	0.01	0.00
	SLV -	-0.03	-0.02	-0.10	0.01	0.01	-0.00
	SLV +	0.02	0.04	-0.09	0.01	0.01	0.00
	SLE Rare -	-0.01	0.01	-0.10	0.01	0.01	0.00
	SLE Rare +	-0.01	0.01	-0.09	0.01	0.01	0.00
	SLE Frequenti -	-0.01	0.01	-0.09	0.01	0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.09	0.01	0.01	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.09	0.01	0.01	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.09	0.01	0.01	0.00
	SLD -	-0.02	-0.00	-0.10	0.01	0.01	-0.00
	SLD +	0.00	0.02	-0.10	0.01	0.01	0.00
18	SLU Statiche -	-0.01	0.01	-0.16	-0.00	-0.00	0.00
	SLU Statiche +	-0.01	0.01	-0.16	-0.00	-0.00	0.00
	SLV -	-0.03	-0.01	-0.13	-0.00	-0.00	-0.00
	SLV +	0.02	0.03	-0.10	-0.00	0.00	0.00
	SLE Rare -	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.12	-0.00	-0.00	-0.00
	SLD +	0.00	0.01	-0.11	-0.00	0.00	0.00
19	SLU Statiche -	-0.01	0.01	-0.12	-0.00	-0.01	0.00
	SLU Statiche +	-0.01	0.01	-0.12	-0.00	-0.01	0.00
	SLV -	-0.03	-0.02	-0.09	-0.00	-0.00	-0.00
	SLV +	0.02	0.03	-0.08	-0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.08	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Quasi Permanenti -	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.09	-0.00	-0.00	-0.00
	SLD +	0.00	0.02	-0.08	-0.00	-0.00	0.00
20	SLU Statiche -	-0.01	0.02	-0.13	0.01	0.00	0.00
	SLU Statiche +	-0.01	0.02	-0.12	0.02	0.00	0.00
	SLV -	-0.03	-0.02	-0.10	0.01	0.00	-0.00
	SLV +	0.02	0.04	-0.09	0.01	0.00	0.00
	SLE Rare -	-0.01	0.01	-0.09	0.01	0.00	0.00
	SLE Rare +	-0.01	0.01	-0.09	0.01	0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.09	0.01	0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.09	0.01	0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.09	0.01	0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.09	0.01	0.00	0.00
	SLD -	-0.02	-0.00	-0.09	0.01	0.00	-0.00
	SLD +	0.00	0.03	-0.09	0.01	0.00	0.00
21	SLU Statiche -	-0.01	0.02	-0.12	0.01	-0.00	0.00
	SLU Statiche +	-0.01	0.02	-0.11	0.02	-0.00	0.00
	SLV -	-0.03	-0.02	-0.09	0.01	-0.00	-0.00
	SLV +	0.02	0.05	-0.08	0.01	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.09	0.01	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.08	0.01	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.08	0.01	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.08	0.01	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.08	0.01	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.08	0.01	-0.00	0.00
	SLD -	-0.02	-0.00	-0.09	0.01	-0.00	-0.00
	SLD +	0.00	0.03	-0.08	0.01	-0.00	0.00
22	SLU Statiche -	-0.01	0.02	-0.11	0.01	-0.01	0.00
	SLU Statiche +	-0.01	0.02	-0.10	0.02	-0.00	0.00
	SLV -	-0.03	-0.02	-0.09	0.01	-0.00	-0.00
	SLV +	0.02	0.05	-0.07	0.01	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.08	0.01	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.08	0.01	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.08	0.01	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.07	0.01	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.07	0.01	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.07	0.01	-0.00	0.00
	SLD -	-0.02	-0.00	-0.08	0.01	-0.00	-0.00
	SLD +	0.00	0.03	-0.08	0.01	-0.00	0.00
23	SLU Statiche -	-0.01	0.01	-0.15	-0.00	-0.00	0.00
	SLU Statiche +	-0.01	0.01	-0.15	-0.00	-0.00	0.00
	SLV -	-0.03	-0.01	-0.10	-0.00	-0.01	-0.00
	SLV +	0.02	0.03	-0.10	-0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.10	-0.00	-0.00	-0.00
	SLD +	0.00	0.02	-0.10	-0.00	-0.00	0.00
24	SLU Statiche -	-0.01	0.01	-0.12	-0.01	-0.01	0.00
	SLU Statiche +	-0.01	0.02	-0.12	-0.00	-0.01	0.00
	SLV -	-0.03	-0.02	-0.09	-0.00	-0.00	-0.00
	SLV +	0.01	0.04	-0.08	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Rare -	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.09	-0.00	-0.00	-0.00
	SLD +	0.00	0.02	-0.08	-0.00	-0.00	0.00
25	SLU Statiche -	-0.02	0.02	-0.12	-0.01	-0.01	0.00
	SLU Statiche +	-0.01	0.02	-0.11	-0.00	-0.01	0.00
	SLV -	-0.03	-0.02	-0.09	-0.00	-0.00	-0.00
	SLV +	0.01	0.04	-0.07	-0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.08	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.08	-0.00	-0.00	-0.00
	SLD +	0.00	0.02	-0.08	-0.00	-0.00	0.00
26	SLU Statiche -	-0.02	0.01	-0.17	-0.00	-0.00	0.00
	SLU Statiche +	-0.01	0.01	-0.17	-0.00	-0.00	0.00
	SLV -	-0.03	-0.01	-0.13	-0.00	-0.00	-0.00
	SLV +	0.01	0.03	-0.11	-0.00	0.00	0.00
	SLE Rare -	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.12	-0.00	-0.00	-0.00
	SLD +	-0.00	0.02	-0.11	-0.00	-0.00	0.00
27	SLU Statiche -	-0.02	0.02	-0.10	-0.01	-0.01	0.00
	SLU Statiche +	-0.01	0.02	-0.10	-0.00	-0.01	0.00
	SLV -	-0.03	-0.02	-0.08	-0.00	-0.01	-0.00
	SLV +	0.01	0.04	-0.07	-0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.07	-0.00	-0.01	0.00
	SLE Rare +	-0.01	0.01	-0.07	-0.00	-0.01	0.00
	SLE Frequenti -	-0.01	0.01	-0.07	-0.00	-0.01	0.00
	SLE Frequenti +	-0.01	0.01	-0.07	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.07	-0.00	-0.01	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.07	-0.00	-0.01	0.00
	SLD -	-0.02	-0.00	-0.08	-0.00	-0.01	-0.00
	SLD +	-0.00	0.03	-0.07	-0.00	-0.00	0.00
28	SLU Statiche -	-0.02	0.01	-0.15	-0.00	-0.01	0.00
	SLU Statiche +	-0.01	0.01	-0.15	-0.00	-0.00	0.00
	SLV -	-0.03	-0.01	-0.10	-0.00	-0.01	-0.00
	SLV +	0.01	0.03	-0.10	-0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.10	-0.00	-0.00	-0.00
	SLD +	-0.00	0.02	-0.10	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
29	SLU Statiche -	-0.02	0.02	-0.09	-0.01	-0.01	0.00
	SLU Statiche +	-0.01	0.02	-0.08	-0.00	-0.01	0.00
	SLV -	-0.03	-0.02	-0.07	-0.00	-0.01	-0.00
	SLV +	0.01	0.05	-0.05	-0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.06	-0.00	-0.01	0.00
	SLE Rare +	-0.01	0.01	-0.06	-0.00	-0.01	0.00
	SLE Frequenti -	-0.01	0.01	-0.06	-0.00	-0.01	0.00
	SLE Frequenti +	-0.01	0.01	-0.06	-0.00	-0.01	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.06	-0.00	-0.01	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.06	-0.00	-0.01	0.00
	SLD -	-0.02	-0.00	-0.06	-0.00	-0.01	-0.00
	SLD +	-0.00	0.03	-0.06	-0.00	-0.00	0.00
30	SLU Statiche -	-0.02	0.01	-0.15	-0.00	-0.00	0.00
	SLU Statiche +	-0.02	0.02	-0.14	-0.00	-0.00	0.00
	SLV -	-0.03	-0.02	-0.10	-0.01	-0.01	-0.00
	SLV +	0.01	0.04	-0.10	-0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.10	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.10	-0.00	-0.00	-0.00
	SLD +	-0.00	0.02	-0.10	-0.00	-0.00	0.00
31	SLU Statiche -	-0.02	0.01	-0.18	-0.00	-0.00	0.00
	SLU Statiche +	-0.02	0.01	-0.17	-0.00	-0.00	0.00
	SLV -	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
	SLV +	0.01	0.03	-0.11	0.00	0.00	0.00
	SLE Rare -	-0.01	0.01	-0.13	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.13	-0.00	-0.00	-0.00
	SLD +	-0.00	0.02	-0.12	-0.00	-0.00	0.00
32	SLU Statiche -	-0.02	0.02	-0.13	-0.00	-0.01	0.00
	SLU Statiche +	-0.02	0.02	-0.13	-0.00	-0.01	0.00
	SLV -	-0.04	-0.02	-0.09	-0.01	-0.01	-0.00
	SLV +	0.01	0.04	-0.09	-0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.09	-0.00	-0.01	-0.00
	SLD +	-0.00	0.03	-0.09	-0.00	-0.00	0.00
33	SLU Statiche -	-0.02	0.02	-0.11	-0.01	-0.01	0.00
	SLU Statiche +	-0.02	0.02	-0.10	-0.01	-0.01	0.00
	SLV -	-0.04	-0.02	-0.08	-0.01	-0.01	-0.00
	SLV +	0.01	0.05	-0.07	-0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.08	-0.00	-0.01	0.00
	SLE Rare +	-0.01	0.01	-0.08	-0.00	-0.01	0.00
	SLE Frequenti -	-0.01	0.01	-0.07	-0.00	-0.01	0.00
	SLE Frequenti +	-0.01	0.01	-0.07	-0.00	-0.01	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Quasi Permanenti -	-0.01	0.01	-0.07	-0.00	-0.01	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.07	-0.00	-0.01	0.00
	SLD -	-0.02	-0.00	-0.08	-0.01	-0.01	-0.00
	SLD +	-0.00	0.03	-0.07	-0.00	-0.00	0.00
34	SLU Statiche -	-0.02	0.01	-0.17	-0.00	-0.00	0.00
	SLU Statiche +	-0.02	0.01	-0.17	-0.00	-0.00	0.00
	SLV -	-0.04	-0.01	-0.13	-0.01	-0.00	-0.00
	SLV +	0.01	0.03	-0.10	0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.12	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.12	-0.00	-0.00	-0.00
	SLD +	-0.00	0.02	-0.11	-0.00	-0.00	0.00
35	SLU Statiche -	-0.02	0.02	-0.16	-0.00	-0.00	0.00
	SLU Statiche +	-0.02	0.02	-0.15	-0.00	-0.00	0.00
	SLV -	-0.04	-0.02	-0.12	-0.01	-0.01	-0.00
	SLV +	0.01	0.04	-0.09	0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.11	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.11	-0.00	-0.00	-0.00
	SLD +	-0.00	0.02	-0.10	-0.00	-0.00	0.00
36	SLU Statiche -	-0.02	0.02	-0.13	-0.00	-0.01	0.00
	SLU Statiche +	-0.02	0.02	-0.13	-0.00	-0.01	0.00
	SLV -	-0.04	-0.02	-0.10	-0.01	-0.01	-0.00
	SLV +	0.01	0.05	-0.08	0.00	-0.00	0.00
	SLE Rare -	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.01	-0.09	-0.00	-0.00	0.00
	SLD -	-0.02	-0.00	-0.10	-0.00	-0.01	-0.00
	SLD +	-0.00	0.03	-0.08	-0.00	-0.00	0.00
37	SLU Statiche -	-0.01	0.03	-0.11	-0.00	-0.00	-0.00
	SLU Statiche +	-0.01	0.04	-0.11	-0.00	-0.00	0.00
	SLV -	-0.07	-0.00	-0.09	-0.00	-0.01	-0.00
	SLV +	0.06	0.05	-0.06	-0.00	0.00	0.00
	SLE Rare -	-0.01	0.02	-0.08	-0.00	-0.00	-0.00
	SLE Rare +	-0.01	0.03	-0.08	-0.00	-0.00	-0.00
	SLE Frequenti -	-0.01	0.02	-0.08	-0.00	-0.00	-0.00
	SLE Frequenti +	-0.01	0.03	-0.08	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.03	-0.08	-0.00	-0.00	-0.00
	SLE Quasi Permanenti +	-0.01	0.03	-0.08	-0.00	-0.00	-0.00
	SLD -	-0.04	0.01	-0.08	-0.00	-0.00	-0.00
	SLD +	0.02	0.04	-0.07	-0.00	0.00	0.00
38	SLU Statiche -	-0.01	0.03	-0.11	0.00	0.00	-0.00
	SLU Statiche +	-0.01	0.03	-0.10	0.00	0.00	-0.00
	SLV -	-0.07	-0.04	-0.08	-0.01	-0.01	-0.02
	SLV +	0.06	0.08	-0.06	0.01	0.01	0.01

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Rare -	-0.01	0.02	-0.08	0.00	-0.00	-0.00
	SLE Rare +	-0.00	0.02	-0.08	0.00	0.00	-0.00
	SLE Frequenti -	-0.01	0.02	-0.07	-0.00	-0.00	-0.00
	SLE Frequenti +	-0.01	0.02	-0.07	-0.00	-0.00	-0.00
	SLE Quasi Permanenti -	-0.01	0.02	-0.07	-0.00	-0.00	-0.00
	SLE Quasi Permanenti +	-0.01	0.02	-0.07	-0.00	-0.00	-0.00
	SLD -	-0.03	-0.01	-0.08	-0.01	-0.00	-0.01
	SLD +	0.02	0.05	-0.07	0.01	0.00	0.00
39	SLU Statiche -	-0.01	0.03	-0.13	-0.00	-0.00	0.00
	SLU Statiche +	-0.01	0.04	-0.12	-0.00	-0.00	0.00
	SLV -	-0.07	-0.00	-0.10	-0.00	-0.00	-0.00
	SLV +	0.05	0.05	-0.07	-0.00	0.00	0.00
	SLE Rare -	-0.01	0.02	-0.09	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.03	-0.09	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.02	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.03	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.02	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.02	-0.09	-0.00	-0.00	0.00
	SLD -	-0.03	0.01	-0.09	-0.00	-0.00	0.00
	SLD +	0.02	0.04	-0.08	-0.00	0.00	0.00
40	SLU Statiche -	-0.01	0.03	-0.13	-0.00	-0.00	-0.00
	SLU Statiche +	-0.01	0.03	-0.12	-0.00	-0.00	-0.00
	SLV -	-0.07	-0.05	-0.09	-0.01	-0.01	-0.02
	SLV +	0.05	0.09	-0.08	0.01	0.00	0.02
	SLE Rare -	-0.01	0.02	-0.09	-0.00	-0.00	-0.00
	SLE Rare +	-0.01	0.02	-0.09	-0.00	-0.00	-0.00
	SLE Frequenti -	-0.01	0.02	-0.09	-0.00	-0.00	-0.00
	SLE Frequenti +	-0.01	0.02	-0.09	-0.00	-0.00	-0.00
	SLE Quasi Permanenti -	-0.01	0.02	-0.09	-0.00	-0.00	-0.00
	SLE Quasi Permanenti +	-0.01	0.02	-0.09	-0.00	-0.00	-0.00
	SLD -	-0.04	-0.01	-0.09	-0.01	-0.00	-0.01
	SLD +	0.02	0.05	-0.08	0.01	0.00	0.01
41	SLU Statiche -	-0.02	0.03	-0.15	-0.00	-0.00	0.00
	SLU Statiche +	-0.02	0.03	-0.14	-0.00	-0.00	0.00
	SLV -	-0.07	-0.00	-0.12	-0.00	-0.00	-0.00
	SLV +	0.04	0.05	-0.09	-0.00	0.00	0.00
	SLE Rare -	-0.01	0.02	-0.11	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.02	-0.10	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.02	-0.10	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.02	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.02	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.02	-0.10	-0.00	-0.00	0.00
	SLD -	-0.04	0.01	-0.11	-0.00	-0.00	-0.00
	SLD +	0.01	0.03	-0.09	-0.00	0.00	0.00
42	SLU Statiche -	-0.02	0.03	-0.14	-0.00	-0.00	-0.00
	SLU Statiche +	-0.02	0.03	-0.14	-0.00	-0.00	-0.00
	SLV -	-0.07	-0.04	-0.10	-0.01	-0.01	-0.02
	SLV +	0.04	0.08	-0.09	0.01	0.00	0.01
	SLE Rare -	-0.01	0.02	-0.10	-0.00	-0.00	-0.00
	SLE Rare +	-0.01	0.02	-0.10	-0.00	-0.00	-0.00
	SLE Frequenti -	-0.01	0.02	-0.10	-0.00	-0.00	-0.00
	SLE Frequenti +	-0.01	0.02	-0.10	-0.00	-0.00	-0.00
	SLE Quasi Permanenti -	-0.01	0.02	-0.10	-0.00	-0.00	-0.00
	SLE Quasi Permanenti +	-0.01	0.02	-0.10	-0.00	-0.00	-0.00
	SLD -	-0.04	-0.01	-0.10	-0.01	-0.00	-0.01
	SLD +	0.01	0.05	-0.09	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
43	SLU Statiche -	-0.03	0.03	-0.15	-0.00	-0.00	-0.00
	SLU Statiche +	-0.02	0.03	-0.15	-0.00	-0.00	-0.00
	SLV -	-0.07	-0.04	-0.11	-0.02	-0.01	-0.02
	SLV +	0.04	0.08	-0.10	0.01	0.01	0.01
	SLE Rare -	-0.02	0.02	-0.11	-0.00	-0.00	-0.00
	SLE Rare +	-0.02	0.02	-0.11	-0.00	-0.00	-0.00
	SLE Frequenti -	-0.02	0.02	-0.11	-0.00	-0.00	-0.00
	SLE Frequenti +	-0.02	0.02	-0.10	-0.00	-0.00	-0.00
	SLE Quasi Permanenti -	-0.02	0.02	-0.10	-0.00	-0.00	-0.00
	SLE Quasi Permanenti +	-0.02	0.02	-0.10	-0.00	-0.00	-0.00
	SLD -	-0.04	-0.01	-0.11	-0.01	-0.00	-0.01
	SLD +	0.01	0.05	-0.10	0.00	0.00	0.01
44	SLU Statiche -	-0.03	0.03	-0.17	-0.00	-0.00	0.00
	SLU Statiche +	-0.02	0.03	-0.16	-0.00	-0.00	0.00
	SLV -	-0.06	-0.01	-0.13	-0.00	-0.00	-0.00
	SLV +	0.03	0.05	-0.10	-0.00	0.00	0.00
	SLE Rare -	-0.02	0.02	-0.12	-0.00	-0.00	0.00
	SLE Rare +	-0.02	0.02	-0.12	-0.00	-0.00	0.00
	SLE Frequenti -	-0.02	0.02	-0.11	-0.00	-0.00	0.00
	SLE Frequenti +	-0.02	0.02	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.02	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.02	-0.11	-0.00	-0.00	0.00
	SLD -	-0.04	0.01	-0.12	-0.00	-0.00	-0.00
	SLD +	0.00	0.03	-0.11	-0.00	-0.00	0.00
45	SLU Statiche -	-0.03	0.03	-0.16	-0.00	-0.00	0.00
	SLU Statiche +	-0.03	0.03	-0.15	-0.00	-0.00	0.00
	SLV -	-0.07	-0.04	-0.11	-0.02	-0.01	-0.01
	SLV +	0.03	0.09	-0.11	0.01	0.01	0.02
	SLE Rare -	-0.02	0.02	-0.11	-0.00	-0.00	0.00
	SLE Rare +	-0.02	0.02	-0.11	-0.00	-0.00	0.00
	SLE Frequenti -	-0.02	0.02	-0.11	-0.00	-0.00	0.00
	SLE Frequenti +	-0.02	0.02	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.02	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.02	-0.11	-0.00	-0.00	0.00
	SLD -	-0.04	-0.00	-0.11	-0.01	-0.00	-0.01
	SLD +	0.00	0.05	-0.11	0.00	0.00	0.01
46	SLU Statiche -	-0.03	0.03	-0.18	-0.00	-0.00	0.00
	SLU Statiche +	-0.03	0.03	-0.17	-0.00	-0.00	0.00
	SLV -	-0.07	-0.01	-0.13	-0.00	-0.00	-0.00
	SLV +	0.02	0.05	-0.11	-0.00	0.00	0.00
	SLE Rare -	-0.02	0.02	-0.12	-0.00	-0.00	0.00
	SLE Rare +	-0.02	0.02	-0.12	-0.00	-0.00	0.00
	SLE Frequenti -	-0.02	0.02	-0.12	-0.00	-0.00	0.00
	SLE Frequenti +	-0.02	0.02	-0.12	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.02	-0.12	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.02	-0.12	-0.00	-0.00	0.00
	SLD -	-0.04	0.01	-0.13	-0.00	-0.00	-0.00
	SLD +	-0.01	0.03	-0.11	-0.00	-0.00	0.00
47	SLU Statiche -	-0.03	0.04	-0.16	-0.00	-0.00	0.00
	SLU Statiche +	-0.03	0.04	-0.15	-0.00	-0.00	0.00
	SLV -	-0.08	-0.04	-0.11	-0.01	-0.01	-0.01
	SLV +	0.03	0.09	-0.10	0.01	0.01	0.02
	SLE Rare -	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Rare +	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Frequenti -	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Frequenti +	-0.02	0.03	-0.11	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Quasi Permanenti -	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLD -	-0.05	-0.00	-0.11	-0.01	-0.00	-0.01
	SLD +	0.00	0.05	-0.11	0.00	0.00	0.01
48	SLU Statiche -	-0.04	0.04	-0.15	-0.00	-0.00	0.00
	SLU Statiche +	-0.03	0.04	-0.14	-0.00	-0.00	0.00
	SLV -	-0.08	-0.03	-0.11	-0.01	-0.01	-0.01
	SLV +	0.03	0.09	-0.10	0.01	0.01	0.02
	SLE Rare -	-0.03	0.03	-0.11	-0.00	-0.00	0.00
	SLE Rare +	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Frequenti -	-0.03	0.03	-0.10	-0.00	-0.00	0.00
	SLE Frequenti +	-0.03	0.03	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.03	0.03	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.03	0.03	-0.10	-0.00	-0.00	0.00
	SLD -	-0.05	0.00	-0.10	-0.01	-0.01	-0.00
	SLD +	-0.00	0.06	-0.10	0.00	0.00	0.01
49	SLU Statiche -	-0.04	0.03	-0.18	-0.00	-0.00	0.00
	SLU Statiche +	-0.04	0.03	-0.17	-0.00	-0.00	0.00
	SLV -	-0.07	-0.01	-0.14	-0.00	-0.00	-0.00
	SLV +	0.01	0.06	-0.11	0.00	-0.00	0.00
	SLE Rare -	-0.03	0.02	-0.13	-0.00	-0.00	0.00
	SLE Rare +	-0.03	0.02	-0.13	-0.00	-0.00	0.00
	SLE Frequenti -	-0.03	0.02	-0.12	-0.00	-0.00	0.00
	SLE Frequenti +	-0.03	0.02	-0.12	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.03	0.02	-0.12	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.03	0.02	-0.12	-0.00	-0.00	0.00
	SLD -	-0.04	0.01	-0.13	-0.00	-0.00	-0.00
	SLD +	-0.01	0.04	-0.12	-0.00	-0.00	0.00
50	SLU Statiche -	-0.04	0.04	-0.14	-0.00	0.00	0.00
	SLU Statiche +	-0.04	0.05	-0.13	-0.00	0.00	0.00
	SLV -	-0.08	-0.04	-0.10	-0.01	-0.01	-0.01
	SLV +	0.03	0.10	-0.09	0.00	0.01	0.02
	SLE Rare -	-0.03	0.03	-0.10	-0.00	0.00	0.00
	SLE Rare +	-0.03	0.03	-0.10	-0.00	0.00	0.00
	SLE Frequenti -	-0.03	0.03	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.03	0.03	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.03	0.03	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.03	0.03	-0.09	-0.00	-0.00	0.00
	SLD -	-0.05	0.00	-0.09	-0.01	-0.00	-0.00
	SLD +	-0.00	0.06	-0.09	-0.00	0.00	0.01
51	SLU Statiche -	-0.04	0.05	-0.11	-0.00	0.00	0.00
	SLU Statiche +	-0.04	0.05	-0.11	-0.00	0.00	0.00
	SLV -	-0.09	-0.04	-0.09	-0.01	-0.01	-0.01
	SLV +	0.03	0.11	-0.06	0.00	0.01	0.01
	SLE Rare -	-0.03	0.04	-0.08	-0.00	0.00	0.00
	SLE Rare +	-0.03	0.04	-0.08	-0.00	0.00	0.00
	SLE Frequenti -	-0.03	0.04	-0.08	-0.00	0.00	0.00
	SLE Frequenti +	-0.03	0.04	-0.07	-0.00	0.00	0.00
	SLE Quasi Permanenti -	-0.03	0.04	-0.07	-0.00	0.00	0.00
	SLE Quasi Permanenti +	-0.03	0.04	-0.07	-0.00	0.00	0.00
	SLD -	-0.05	0.00	-0.08	-0.01	-0.00	-0.00
	SLD +	-0.00	0.07	-0.07	-0.00	0.01	0.01
52	SLU Statiche -	-0.05	0.04	-0.17	-0.00	-0.00	0.00
	SLU Statiche +	-0.04	0.04	-0.17	-0.00	-0.00	0.00
	SLV -	-0.07	-0.02	-0.13	-0.01	-0.00	-0.00
	SLV +	0.01	0.07	-0.10	0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Rare -	-0.03	0.03	-0.12	-0.00	-0.00	0.00
	SLE Rare +	-0.03	0.03	-0.12	-0.00	-0.00	0.00
	SLE Frequenti -	-0.03	0.03	-0.12	-0.00	-0.00	0.00
	SLE Frequenti +	-0.03	0.03	-0.12	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.03	0.03	-0.12	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.03	0.03	-0.12	-0.00	-0.00	0.00
	SLD -	-0.05	0.01	-0.12	-0.00	-0.00	-0.00
	SLD +	-0.02	0.05	-0.11	-0.00	-0.00	0.00
53	SLU Statiche -	-0.05	0.04	-0.16	-0.00	-0.01	0.00
	SLU Statiche +	-0.05	0.04	-0.15	-0.00	-0.00	0.00
	SLV -	-0.07	-0.03	-0.13	-0.01	-0.01	-0.00
	SLV +	0.00	0.09	-0.09	0.00	-0.00	0.00
	SLE Rare -	-0.04	0.03	-0.11	-0.00	-0.00	0.00
	SLE Rare +	-0.04	0.03	-0.11	-0.00	-0.00	0.00
	SLE Frequenti -	-0.04	0.03	-0.11	-0.00	-0.00	0.00
	SLE Frequenti +	-0.04	0.03	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.04	0.03	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.04	0.03	-0.11	-0.00	-0.00	0.00
	SLD -	-0.05	0.01	-0.12	-0.00	-0.00	0.00
	SLD +	-0.02	0.05	-0.10	-0.00	-0.00	0.00
54	SLU Statiche -	-0.05	0.05	-0.14	-0.01	-0.00	0.00
	SLU Statiche +	-0.05	0.05	-0.13	-0.01	-0.00	0.00
	SLV -	-0.07	-0.03	-0.11	-0.01	-0.00	-0.00
	SLV +	0.00	0.11	-0.08	0.00	-0.00	0.00
	SLE Rare -	-0.04	0.04	-0.10	-0.00	-0.00	0.00
	SLE Rare +	-0.04	0.04	-0.10	-0.00	-0.00	0.00
	SLE Frequenti -	-0.04	0.04	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.04	0.04	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.04	0.04	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.04	0.04	-0.09	-0.00	-0.00	0.00
	SLD -	-0.05	0.01	-0.10	-0.01	-0.00	-0.00
	SLD +	-0.02	0.07	-0.09	-0.00	-0.00	0.00
101	SLU Statiche -	-0.01	0.05	-0.14	-0.00	0.00	0.00
	SLU Statiche +	-0.01	0.05	-0.13	-0.00	0.00	0.00
	SLV -	-0.08	-0.04	-0.10	-0.00	0.00	-0.00
	SLV +	0.06	0.10	-0.09	-0.00	0.00	0.00
	SLE Rare -	-0.01	0.03	-0.10	-0.00	0.00	0.00
	SLE Rare +	-0.01	0.03	-0.10	-0.00	0.00	0.00
	SLE Frequenti -	-0.01	0.03	-0.09	-0.00	0.00	0.00
	SLE Frequenti +	-0.01	0.03	-0.09	-0.00	0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.03	-0.09	-0.00	0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.03	-0.09	-0.00	0.00	0.00
	SLD -	-0.04	0.00	-0.10	-0.00	0.00	0.00
	SLD +	0.02	0.06	-0.09	-0.00	0.00	0.00
102	SLU Statiche -	-0.01	0.03	-0.11	-0.00	0.00	0.00
	SLU Statiche +	-0.01	0.04	-0.10	-0.00	0.00	0.00
	SLV -	-0.08	-0.04	-0.08	-0.01	-0.01	-0.00
	SLV +	0.07	0.09	-0.06	0.01	0.01	0.00
	SLE Rare -	-0.01	0.02	-0.08	-0.00	0.00	0.00
	SLE Rare +	-0.00	0.02	-0.08	-0.00	0.00	0.00
	SLE Frequenti -	-0.01	0.02	-0.07	-0.00	0.00	0.00
	SLE Frequenti +	-0.01	0.03	-0.07	-0.00	0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.02	-0.07	-0.00	0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.02	-0.07	-0.00	0.00	0.00
	SLD -	-0.04	-0.00	-0.08	-0.01	-0.00	0.00
	SLD +	0.03	0.05	-0.07	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
103	SLU Statiche -	-0.01	0.04	-0.11	-0.01	-0.00	0.00
	SLU Statiche +	-0.01	0.04	-0.11	-0.01	-0.00	0.00
	SLV -	-0.08	-0.04	-0.09	-0.01	-0.00	-0.00
	SLV +	0.07	0.10	-0.07	-0.00	0.00	0.00
	SLE Rare -	-0.01	0.03	-0.08	-0.01	-0.00	0.00
	SLE Rare +	-0.00	0.03	-0.08	-0.01	-0.00	0.00
	SLE Frequenti -	-0.01	0.03	-0.08	-0.01	-0.00	0.00
	SLE Frequenti +	-0.01	0.03	-0.08	-0.01	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.03	-0.08	-0.01	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.03	-0.08	-0.01	-0.00	0.00
	SLD -	-0.04	0.00	-0.08	-0.01	-0.00	0.00
	SLD +	0.03	0.06	-0.08	-0.01	-0.00	0.00
104	SLU Statiche -	-0.02	0.05	-0.14	-0.00	0.00	0.00
	SLU Statiche +	-0.02	0.05	-0.14	0.00	0.01	0.00
	SLV -	-0.08	-0.04	-0.10	-0.00	0.00	-0.00
	SLV +	0.05	0.10	-0.09	0.00	0.00	0.00
	SLE Rare -	-0.01	0.03	-0.10	-0.00	0.00	0.00
	SLE Rare +	-0.01	0.03	-0.10	0.00	0.00	0.00
	SLE Frequenti -	-0.01	0.03	-0.10	-0.00	0.00	0.00
	SLE Frequenti +	-0.01	0.03	-0.10	-0.00	0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.03	-0.10	-0.00	0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.03	-0.10	-0.00	0.00	0.00
	SLD -	-0.04	0.00	-0.10	-0.00	0.00	0.00
	SLD +	0.01	0.06	-0.09	0.00	0.00	0.00
105	SLU Statiche -	-0.01	0.05	-0.14	0.00	0.01	0.00
	SLU Statiche +	-0.01	0.05	-0.13	0.00	0.01	0.00
	SLV -	-0.08	-0.04	-0.10	0.00	0.01	-0.00
	SLV +	0.07	0.10	-0.09	0.00	0.01	0.00
	SLE Rare -	-0.01	0.03	-0.10	0.00	0.01	0.00
	SLE Rare +	-0.00	0.03	-0.10	0.00	0.01	0.00
	SLE Frequenti -	-0.01	0.03	-0.09	0.00	0.01	0.00
	SLE Frequenti +	-0.01	0.03	-0.09	0.00	0.01	0.00
	SLE Quasi Permanenti -	-0.01	0.03	-0.09	0.00	0.01	0.00
	SLE Quasi Permanenti +	-0.01	0.03	-0.09	0.00	0.01	0.00
	SLD -	-0.04	0.00	-0.10	0.00	0.01	0.00
	SLD +	0.03	0.06	-0.09	0.00	0.01	0.00
106	SLU Statiche -	-0.01	0.03	-0.13	-0.00	0.00	0.00
	SLU Statiche +	-0.01	0.04	-0.12	-0.00	0.00	0.00
	SLV -	-0.08	-0.04	-0.09	-0.01	-0.01	-0.00
	SLV +	0.06	0.09	-0.08	0.01	0.01	0.00
	SLE Rare -	-0.01	0.02	-0.09	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.02	-0.09	-0.00	0.00	0.00
	SLE Frequenti -	-0.01	0.02	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.03	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.02	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.02	-0.09	-0.00	-0.00	0.00
	SLD -	-0.04	-0.00	-0.09	-0.01	-0.00	0.00
	SLD +	0.02	0.05	-0.08	0.00	0.00	0.00
107	SLU Statiche -	-0.01	0.04	-0.13	-0.00	-0.00	0.00
	SLU Statiche +	-0.01	0.04	-0.13	-0.00	-0.00	0.00
	SLV -	-0.08	-0.04	-0.10	-0.00	-0.00	-0.00
	SLV +	0.06	0.10	-0.08	-0.00	-0.00	0.00
	SLE Rare -	-0.01	0.03	-0.10	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.03	-0.09	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.03	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.03	-0.09	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Quasi Permanenti -	-0.01	0.03	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.03	-0.09	-0.00	-0.00	0.00
	SLD -	-0.04	0.00	-0.10	-0.00	-0.00	0.00
	SLD +	0.02	0.06	-0.09	-0.00	-0.00	0.00
108	SLU Statiche -	-0.02	0.05	-0.14	0.00	0.00	0.00
	SLU Statiche +	-0.02	0.05	-0.14	0.00	0.01	0.00
	SLV -	-0.08	-0.04	-0.10	0.00	0.00	-0.00
	SLV +	0.05	0.10	-0.09	0.00	0.00	0.00
	SLE Rare -	-0.02	0.03	-0.10	0.00	0.00	0.00
	SLE Rare +	-0.01	0.03	-0.10	0.00	0.00	0.00
	SLE Frequenti -	-0.02	0.03	-0.10	0.00	0.00	0.00
	SLE Frequenti +	-0.02	0.03	-0.09	0.00	0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.03	-0.09	0.00	0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.03	-0.09	0.00	0.00	0.00
	SLD -	-0.04	0.00	-0.10	0.00	0.00	0.00
	SLD +	0.01	0.06	-0.09	0.00	0.00	0.00
109	SLU Statiche -	-0.02	0.05	-0.14	0.00	0.00	0.00
	SLU Statiche +	-0.02	0.05	-0.13	0.00	0.00	0.00
	SLV -	-0.07	-0.04	-0.10	0.00	0.00	-0.00
	SLV +	0.04	0.11	-0.09	0.00	0.00	0.00
	SLE Rare -	-0.02	0.03	-0.10	0.00	0.00	0.00
	SLE Rare +	-0.02	0.03	-0.10	0.00	0.00	0.00
	SLE Frequenti -	-0.02	0.03	-0.09	0.00	0.00	0.00
	SLE Frequenti +	-0.02	0.03	-0.09	0.00	0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.03	-0.09	0.00	0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.03	-0.09	0.00	0.00	0.00
	SLD -	-0.04	0.00	-0.10	0.00	0.00	0.00
	SLD +	0.01	0.06	-0.09	0.00	0.00	0.00
110	SLU Statiche -	-0.02	0.03	-0.14	-0.00	-0.00	0.00
	SLU Statiche +	-0.02	0.04	-0.14	-0.00	0.00	0.00
	SLV -	-0.08	-0.04	-0.10	-0.01	-0.01	-0.00
	SLV +	0.05	0.09	-0.09	0.01	0.00	0.00
	SLE Rare -	-0.01	0.02	-0.10	-0.00	-0.00	0.00
	SLE Rare +	-0.01	0.02	-0.10	-0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.02	-0.10	-0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.03	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.02	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.02	-0.10	-0.00	-0.00	0.00
	SLD -	-0.04	-0.00	-0.10	-0.01	-0.00	0.00
	SLD +	0.01	0.05	-0.10	0.00	0.00	0.00
111	SLU Statiche -	-0.02	0.04	-0.14	0.00	-0.00	0.00
	SLU Statiche +	-0.02	0.04	-0.13	0.00	-0.00	0.00
	SLV -	-0.08	-0.04	-0.10	-0.00	-0.00	-0.00
	SLV +	0.05	0.10	-0.09	0.00	-0.00	0.00
	SLE Rare -	-0.01	0.03	-0.10	0.00	-0.00	0.00
	SLE Rare +	-0.01	0.03	-0.10	0.00	-0.00	0.00
	SLE Frequenti -	-0.01	0.03	-0.09	0.00	-0.00	0.00
	SLE Frequenti +	-0.01	0.03	-0.09	0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.01	0.03	-0.09	0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.01	0.03	-0.09	0.00	-0.00	0.00
	SLD -	-0.04	0.00	-0.10	0.00	-0.00	0.00
	SLD +	0.01	0.06	-0.09	0.00	-0.00	0.00
112	SLU Statiche -	-0.03	0.05	-0.13	0.01	0.00	0.00
	SLU Statiche +	-0.02	0.05	-0.13	0.01	0.00	0.00
	SLV -	-0.08	-0.04	-0.10	0.00	0.00	-0.00
	SLV +	0.04	0.11	-0.09	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Rare -	-0.02	0.04	-0.10	0.00	0.00	0.00
	SLE Rare +	-0.02	0.04	-0.09	0.00	0.00	0.00
	SLE Frequenti -	-0.02	0.04	-0.09	0.00	0.00	0.00
	SLE Frequenti +	-0.02	0.04	-0.09	0.00	0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.04	-0.09	0.00	0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.04	-0.09	0.00	0.00	0.00
	SLD -	-0.04	0.00	-0.09	0.00	0.00	0.00
	SLD +	0.01	0.07	-0.09	0.00	0.00	0.00
113	SLU Statiche -	-0.03	0.05	-0.13	0.01	0.00	0.00
	SLU Statiche +	-0.03	0.05	-0.13	0.01	0.00	0.00
	SLV -	-0.08	-0.04	-0.09	0.00	-0.00	-0.00
	SLV +	0.04	0.11	-0.08	0.01	0.00	0.00
	SLE Rare -	-0.02	0.04	-0.09	0.00	0.00	0.00
	SLE Rare +	-0.02	0.04	-0.09	0.01	0.00	0.00
	SLE Frequenti -	-0.02	0.04	-0.09	0.00	0.00	0.00
	SLE Frequenti +	-0.02	0.04	-0.09	0.00	0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.04	-0.09	0.00	0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.04	-0.09	0.00	0.00	0.00
	SLD -	-0.04	0.00	-0.09	0.00	0.00	0.00
	SLD +	0.01	0.07	-0.09	0.00	0.00	0.00
114	SLU Statiche -	-0.02	0.04	-0.14	-0.00	-0.00	0.00
	SLU Statiche +	-0.02	0.04	-0.13	-0.00	-0.00	0.00
	SLV -	-0.08	-0.04	-0.10	-0.00	-0.00	-0.00
	SLV +	0.04	0.10	-0.09	0.00	-0.00	0.00
	SLE Rare -	-0.02	0.03	-0.10	-0.00	-0.00	0.00
	SLE Rare +	-0.02	0.03	-0.10	-0.00	-0.00	0.00
	SLE Frequenti -	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLD -	-0.04	0.00	-0.10	-0.00	-0.00	0.00
	SLD +	0.01	0.06	-0.09	0.00	-0.00	0.00
115	SLU Statiche -	-0.03	0.05	-0.12	0.01	0.00	0.00
	SLU Statiche +	-0.03	0.06	-0.12	0.01	0.00	0.00
	SLV -	-0.08	-0.04	-0.09	0.00	0.00	-0.00
	SLV +	0.04	0.12	-0.08	0.01	0.00	0.00
	SLE Rare -	-0.02	0.04	-0.09	0.01	0.00	0.00
	SLE Rare +	-0.02	0.04	-0.09	0.01	0.00	0.00
	SLE Frequenti -	-0.02	0.04	-0.09	0.01	0.00	0.00
	SLE Frequenti +	-0.02	0.04	-0.08	0.01	0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.04	-0.08	0.01	0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.04	-0.08	0.01	0.00	0.00
	SLD -	-0.04	0.00	-0.09	0.01	0.00	0.00
	SLD +	0.00	0.07	-0.08	0.01	0.00	0.00
116	SLU Statiche -	-0.03	0.03	-0.16	-0.00	-0.00	0.00
	SLU Statiche +	-0.02	0.04	-0.15	-0.00	0.00	0.00
	SLV -	-0.08	-0.04	-0.11	-0.01	-0.01	-0.00
	SLV +	0.04	0.09	-0.10	0.01	0.01	0.00
	SLE Rare -	-0.02	0.02	-0.11	-0.00	-0.00	0.00
	SLE Rare +	-0.02	0.03	-0.11	-0.00	0.00	0.00
	SLE Frequenti -	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Frequenti +	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLD -	-0.04	-0.00	-0.11	-0.01	-0.00	0.00
	SLD +	0.01	0.05	-0.10	0.00	0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
117	SLU Statiche -	-0.03	0.06	-0.13	0.01	0.00	0.00
	SLU Statiche +	-0.03	0.06	-0.12	0.01	0.00	0.00
	SLV -	-0.08	-0.04	-0.09	0.01	0.00	-0.00
	SLV +	0.04	0.12	-0.08	0.01	0.00	0.00
	SLE Rare -	-0.02	0.04	-0.09	0.01	0.00	0.00
	SLE Rare +	-0.02	0.04	-0.09	0.01	0.00	0.00
	SLE Frequenti -	-0.02	0.04	-0.09	0.01	0.00	0.00
	SLE Frequenti +	-0.02	0.04	-0.09	0.01	0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.04	-0.09	0.01	0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.04	-0.09	0.01	0.00	0.00
	SLD -	-0.05	0.01	-0.09	0.01	0.00	0.00
	SLD +	0.00	0.07	-0.08	0.01	0.00	0.00
119	SLU Statiche -	-0.03	0.04	-0.13	-0.00	-0.00	0.00
	SLU Statiche +	-0.03	0.04	-0.13	-0.00	-0.00	0.00
	SLV -	-0.08	-0.04	-0.10	-0.00	-0.00	-0.00
	SLV +	0.04	0.10	-0.09	-0.00	-0.00	0.00
	SLE Rare -	-0.02	0.03	-0.10	-0.00	-0.00	0.00
	SLE Rare +	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Frequenti -	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLD -	-0.04	0.00	-0.09	-0.00	-0.00	0.00
	SLD +	0.01	0.06	-0.09	-0.00	-0.00	0.00
123	SLU Statiche -	-0.03	0.04	-0.16	-0.00	-0.00	0.00
	SLU Statiche +	-0.03	0.04	-0.15	-0.00	-0.00	0.00
	SLV -	-0.08	-0.04	-0.11	-0.01	-0.01	-0.00
	SLV +	0.04	0.09	-0.11	0.01	0.01	0.00
	SLE Rare -	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Rare +	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Frequenti -	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Frequenti +	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLD -	-0.05	-0.00	-0.11	-0.01	-0.00	0.00
	SLD +	0.00	0.05	-0.11	0.00	0.00	0.00
124	SLU Statiche -	-0.03	0.04	-0.13	-0.00	-0.00	0.00
	SLU Statiche +	-0.03	0.05	-0.13	-0.00	-0.00	0.00
	SLV -	-0.08	-0.04	-0.10	-0.00	-0.00	-0.00
	SLV +	0.04	0.10	-0.09	-0.00	-0.00	0.00
	SLE Rare -	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Rare +	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Frequenti -	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLD -	-0.05	0.00	-0.09	-0.00	-0.00	0.00
	SLD +	0.00	0.06	-0.09	-0.00	-0.00	0.00
125	SLU Statiche -	-0.03	0.05	-0.13	-0.00	-0.00	0.00
	SLU Statiche +	-0.03	0.05	-0.12	-0.00	-0.00	0.00
	SLV -	-0.08	-0.04	-0.09	-0.00	-0.00	-0.00
	SLV +	0.04	0.11	-0.08	-0.00	-0.00	0.00
	SLE Rare -	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Rare +	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Frequenti -	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.02	0.03	-0.09	-0.00	-0.00	0.00

Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Quasi Permanenti -	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.02	0.03	-0.09	-0.00	-0.00	0.00
	SLD -	-0.05	0.00	-0.09	-0.00	-0.00	0.00
	SLD +	0.00	0.07	-0.08	-0.00	-0.00	0.00
127	SLU Statiche -	-0.03	0.05	-0.12	-0.00	-0.01	0.00
	SLU Statiche +	-0.03	0.05	-0.11	-0.00	-0.01	0.00
	SLV -	-0.08	-0.04	-0.09	-0.00	-0.00	-0.00
	SLV +	0.04	0.11	-0.07	-0.00	-0.00	0.00
	SLE Rare -	-0.02	0.04	-0.08	-0.00	-0.00	0.00
	SLE Rare +	-0.02	0.04	-0.08	-0.00	-0.00	0.00
	SLE Frequenti -	-0.03	0.04	-0.08	-0.00	-0.00	0.00
	SLE Frequenti +	-0.02	0.04	-0.08	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.03	0.04	-0.08	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.03	0.04	-0.08	-0.00	-0.00	0.00
	SLD -	-0.05	0.00	-0.08	-0.00	-0.00	0.00
	SLD +	0.00	0.07	-0.08	-0.00	-0.00	0.00
128	SLU Statiche -	-0.04	0.04	-0.16	-0.00	-0.00	0.00
	SLU Statiche +	-0.03	0.04	-0.15	-0.00	-0.00	0.00
	SLV -	-0.08	-0.04	-0.11	-0.01	-0.01	-0.00
	SLV +	0.04	0.10	-0.10	0.01	0.01	0.00
	SLE Rare -	-0.03	0.03	-0.11	-0.00	-0.00	0.00
	SLE Rare +	-0.02	0.03	-0.11	-0.00	-0.00	0.00
	SLE Frequenti -	-0.03	0.03	-0.11	-0.00	-0.00	0.00
	SLE Frequenti +	-0.03	0.03	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.03	0.03	-0.11	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.03	0.03	-0.11	-0.00	-0.00	0.00
	SLD -	-0.05	0.00	-0.11	-0.01	-0.00	0.00
	SLD +	0.00	0.06	-0.11	0.00	0.00	0.00
129	SLU Statiche -	-0.04	0.06	-0.10	-0.00	-0.01	0.00
	SLU Statiche +	-0.03	0.06	-0.10	-0.00	-0.01	0.00
	SLV -	-0.08	-0.04	-0.08	-0.00	-0.01	-0.00
	SLV +	0.04	0.12	-0.06	-0.00	-0.00	0.00
	SLE Rare -	-0.03	0.04	-0.07	-0.00	-0.01	0.00
	SLE Rare +	-0.02	0.04	-0.07	-0.00	-0.01	0.00
	SLE Frequenti -	-0.03	0.04	-0.07	-0.00	-0.01	0.00
	SLE Frequenti +	-0.03	0.04	-0.07	-0.00	-0.01	0.00
	SLE Quasi Permanenti -	-0.03	0.04	-0.07	-0.00	-0.01	0.00
	SLE Quasi Permanenti +	-0.03	0.04	-0.07	-0.00	-0.01	0.00
	SLD -	-0.05	0.01	-0.07	-0.00	-0.01	0.00
	SLD +	0.00	0.07	-0.06	-0.00	-0.01	0.00
130	SLU Statiche -	-0.04	0.04	-0.15	-0.00	-0.00	0.00
	SLU Statiche +	-0.04	0.05	-0.15	-0.00	-0.00	0.00
	SLV -	-0.09	-0.04	-0.11	-0.01	-0.01	-0.00
	SLV +	0.03	0.10	-0.10	0.01	0.01	0.00
	SLE Rare -	-0.03	0.03	-0.11	-0.00	-0.00	0.00
	SLE Rare +	-0.03	0.03	-0.11	-0.00	-0.00	0.00
	SLE Frequenti -	-0.03	0.03	-0.10	-0.00	-0.00	0.00
	SLE Frequenti +	-0.03	0.03	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.03	0.03	-0.10	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.03	0.03	-0.10	-0.00	-0.00	0.00
	SLD -	-0.05	0.00	-0.10	-0.01	-0.01	0.00
	SLD +	-0.00	0.06	-0.10	0.00	0.00	0.00
132	SLU Statiche -	-0.04	0.05	-0.14	-0.00	-0.00	0.00
	SLU Statiche +	-0.04	0.05	-0.13	-0.00	-0.00	0.00
	SLV -	-0.09	-0.04	-0.10	-0.01	-0.01	-0.00
	SLV +	0.03	0.11	-0.09	0.00	0.01	0.00

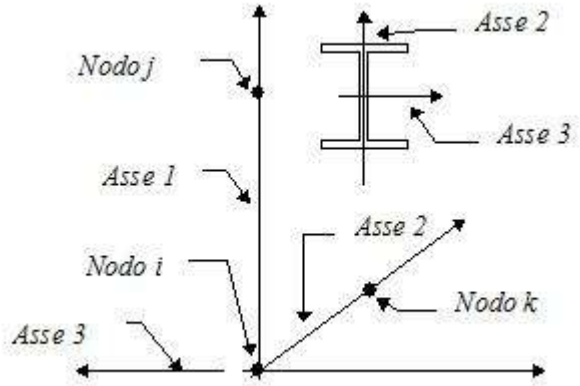
Nodo	Comb.	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
	SLE Rare -	-0.03	0.04	-0.10	-0.00	-0.00	0.00
	SLE Rare +	-0.03	0.04	-0.10	-0.00	-0.00	0.00
	SLE Frequenti -	-0.03	0.04	-0.09	-0.00	-0.00	0.00
	SLE Frequenti +	-0.03	0.04	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.03	0.04	-0.09	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.03	0.04	-0.09	-0.00	-0.00	0.00
	SLD -	-0.05	0.00	-0.10	-0.01	-0.00	0.00
	SLD +	-0.00	0.07	-0.09	0.00	0.00	0.00
133	SLU Statiche -	-0.04	0.06	-0.11	-0.00	-0.00	0.00
	SLU Statiche +	-0.04	0.06	-0.11	-0.00	0.00	0.00
	SLV -	-0.09	-0.04	-0.09	-0.01	-0.01	-0.00
	SLV +	0.03	0.12	-0.06	0.00	0.01	0.00
	SLE Rare -	-0.03	0.04	-0.08	-0.00	-0.00	0.00
	SLE Rare +	-0.03	0.04	-0.08	-0.00	-0.00	0.00
	SLE Frequenti -	-0.03	0.04	-0.08	-0.00	-0.00	0.00
	SLE Frequenti +	-0.03	0.04	-0.07	-0.00	-0.00	0.00
	SLE Quasi Permanenti -	-0.03	0.04	-0.07	-0.00	-0.00	0.00
	SLE Quasi Permanenti +	-0.03	0.04	-0.07	-0.00	-0.00	0.00
	SLD -	-0.06	0.01	-0.08	-0.01	-0.00	0.00
	SLD +	-0.00	0.07	-0.07	-0.00	0.00	0.00

Sollecitazioni nei pilastri

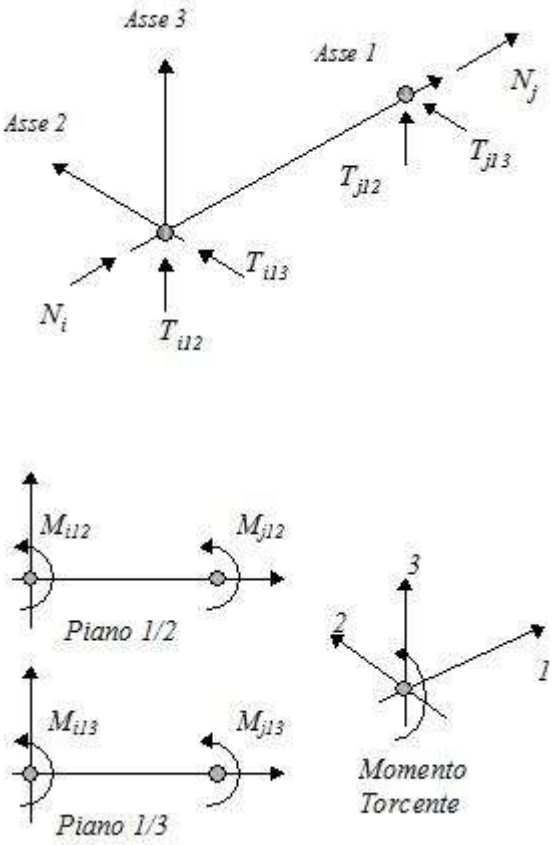
Convenzioni adottate

Le sollecitazioni nei pilastri sono da intendersi nel sistema di riferimento locale dell'elemento e si riferiscono all'asta.

L'orientamento del pilastro nello spazio è definito a mezzo del nodo *K*. La terna di riferimento locale dell'asta è così disposta:



Per quanto concerne i segni positivi assunti per le varie componenti di sollecitazione si assumono come positivi i versi e le sollecitazioni così diretti:



Per ogni pilastro vengono riportate, nelle varie combinazioni di carico, le componenti di sollecitazione alle estremità dell'asta.

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLU Statiche -	3	75.17	1.01	-0.08	-3.6	11.8	259.8
	103	-64.85	-1.02	0.01	3.5	-7.0	258.2
SLU Statiche +	3	79.51	1.02	-0.01	-3.5	34.9	262.7
	103	-60.52	-1.01	0.08	3.6	8.7	263.8
SLV -	3	51.09	-0.13	-0.52	-5.6	-80.6	-28.1
	103	-42.34	-1.52	-0.33	-0.7	-87.2	-36.4
SLV +	3	53.61	1.52	0.33	0.7	146.0	390.5
	103	-39.82	0.13	0.52	5.6	119.7	391.2
SLE Rare -	3	55.57	0.72	-0.07	-2.6	12.3	185.6
	103	-47.19	-0.75	0.02	2.5	-1.3	184.7
SLE Rare +	3	58.46	0.75	-0.02	-2.5	25.8	191.6
	103	-44.30	-0.72	0.07	2.6	9.1	193.2
SLE Frequenti -	3	52.65	0.67	-0.07	-2.5	17.9	173.6
	103	-42.51	-0.68	0.05	2.5	7.7	171.1
SLE Frequenti +	3	53.78	0.68	-0.05	-2.5	22.8	176.0
	103	-41.38	-0.67	0.07	2.5	11.5	174.5
SLE Quasi Permanenti -	3	52.75	0.67	-0.06	-2.5	19.6	173.6
	103	-41.48	-0.67	0.06	2.5	10.0	171.1
SLE Quasi Permanenti +	3	52.75	0.67	-0.06	-2.5	19.6	173.6
	103	-41.48	-0.67	0.06	2.5	10.0	171.1
SLD -	3	51.81	0.35	-0.27	-3.8	-15.4	92.0
	103	-41.61	-1.05	-0.08	1.2	-27.8	86.4
SLD +	3	52.89	1.05	0.08	-1.2	80.9	270.3
	103	-40.54	-0.35	0.27	3.8	60.2	268.5

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLU Statiche -	7	59.16	0.00	-0.02	-3.6	1.2	14.8
	107	-51.93	-0.00	-0.07	3.5	-39.9	-14.1
SLU Statiche +	7	66.57	0.00	0.07	-3.5	30.2	15.4
	107	-44.51	-0.00	0.02	3.6	-19.9	-13.0
SLV -	7	36.17	-1.02	-0.49	-5.7	-82.2	-251.2
	107	-32.34	-0.99	-0.37	-0.7	-106.4	-273.3
SLV +	7	43.61	0.99	0.37	0.7	145.3	264.5
	107	-24.90	1.02	0.49	5.7	104.8	245.5
SLE Rare -	7	43.78	-0.01	-0.02	-2.6	6.1	8.5
	107	-37.46	-0.00	-0.03	2.6	-24.1	-12.2
SLE Rare +	7	48.72	0.00	0.03	-2.6	22.7	10.9
	107	-32.51	0.01	0.02	2.6	-10.8	-9.9
SLE Frequenti -	7	40.98	-0.02	-0.03	-2.5	13.2	3.9
	107	-31.62	0.02	0.00	2.5	-11.3	-16.0
SLE Frequenti +	7	42.88	-0.02	-0.00	-2.5	19.4	4.9
	107	-29.71	0.02	0.03	2.5	-6.3	-15.1
SLE Quasi Permanenti -	7	41.34	-0.02	-0.01	-2.5	15.3	3.9
	107	-30.08	0.02	0.01	2.5	-8.1	-16.0
SLE Quasi Permanenti +	7	41.34	-0.02	-0.01	-2.5	15.3	3.9
	107	-30.08	0.02	0.01	2.5	-8.1	-16.0
SLD -	7	38.30	-0.44	-0.24	-3.9	-16.9	-103.1
	107	-30.21	-0.41	-0.12	1.2	-45.8	-124.4
SLD +	7	41.47	0.41	0.12	-1.2	79.9	116.5
	107	-27.04	0.44	0.24	3.9	44.1	96.6
SLU Statiche -	11	56.47	-0.83	0.20	-4.0	-69.6	-223.2
	111	-48.18	0.81	-0.28	3.9	-79.9	-203.5
SLU Statiche +	11	62.83	-0.81	0.28	-3.9	-41.4	-217.2
	111	-41.83	0.83	-0.20	4.0	-61.0	-199.9
SLV -	11	35.50	-1.67	-0.31	-6.0	-126.8	-438.7
	111	-29.81	-0.46	-0.50	-0.4	-130.7	-422.5
SLV +	11	41.07	0.46	0.50	0.4	88.9	113.2
	111	-24.23	1.67	0.31	6.0	71.9	126.0
SLE Rare -	11	41.72	-0.61	0.13	-2.9	-43.6	-164.3
	111	-34.69	0.60	-0.19	2.8	-52.6	-150.1
SLE Rare +	11	45.96	-0.60	0.19	-2.8	-28.5	-160.3
	111	-30.45	0.61	-0.13	2.9	-40.0	-147.2
SLE Frequenti -	11	39.08	-0.59	0.12	-2.8	-35.5	-158.8
	111	-29.46	0.59	-0.14	2.8	-38.8	-145.4
SLE Frequenti +	11	40.73	-0.59	0.14	-2.8	-29.5	-157.4
	111	-27.82	0.59	-0.12	2.8	-34.1	-144.4
SLE Quasi Permanenti -	11	39.35	-0.59	0.13	-2.8	-33.0	-157.4
	111	-28.08	0.59	-0.13	2.8	-35.7	-144.4
SLE Quasi Permanenti +	11	39.35	-0.59	0.13	-2.8	-33.0	-157.4
	111	-28.08	0.59	-0.13	2.8	-35.7	-144.4
SLD -	11	37.10	-1.06	-0.08	-4.1	-64.8	-280.3
	111	-28.21	0.15	-0.27	1.4	-72.5	-265.1
SLD +	11	39.47	-0.15	0.27	-1.4	26.9	-45.2
	111	-25.83	1.06	0.08	4.1	13.7	-31.4
SLU Statiche -	14	63.00	-0.77	0.25	-4.2	-97.1	-200.4
	114	-53.46	0.75	-0.33	4.1	-75.3	-194.3
SLU Statiche +	14	68.11	-0.75	0.33	-4.1	-71.3	-195.6
	114	-48.35	0.77	-0.25	4.2	-57.6	-190.8
SLV -	14	41.57	-1.74	-0.18	-6.0	-122.1	-451.5

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	114	-33.64	-0.66	-0.44	-0.2	-104.3	-445.9
SLV +	14	44.91	0.66	0.44	0.2	42.0	168.5
	114	-30.30	1.74	0.18	6.0	50.1	171.6
SLE Rare -	14	46.45	-0.55	0.17	-3.0	-63.1	-144.7
	114	-38.59	0.55	-0.22	3.0	-48.9	-140.5
SLE Rare +	14	49.86	-0.55	0.22	-3.0	-49.6	-142.7
	114	-35.18	0.55	-0.17	3.0	-37.1	-138.5
SLE Frequenti -	14	43.55	-0.53	0.16	-3.0	-54.4	-139.9
	114	-33.63	0.53	-0.17	2.9	-35.9	-135.5
SLE Frequenti +	14	44.90	-0.53	0.17	-2.9	-49.0	-138.8
	114	-32.29	0.53	-0.16	3.0	-31.5	-134.4
SLE Quasi Permanenti -	14	43.66	-0.53	0.16	-2.9	-52.0	-138.8
	114	-32.39	0.53	-0.16	2.9	-32.9	-134.4
SLE Quasi Permanenti +	14	43.66	-0.53	0.16	-2.9	-52.0	-138.8
	114	-32.39	0.53	-0.16	2.9	-32.9	-134.4
SLD -	14	42.53	-1.05	-0.00	-4.2	-74.9	-273.6
	114	-32.68	0.03	-0.26	1.6	-59.9	-268.7
SLD +	14	43.95	-0.03	0.26	-1.6	-5.2	-9.4
	114	-31.26	1.05	0.00	4.2	5.7	-5.6
SLU Statiche -	19	63.72	-0.58	0.27	-4.4	-105.8	-149.0
	119	-54.00	0.57	-0.34	4.3	-75.1	-149.6
SLU Statiche +	19	68.65	-0.57	0.34	-4.3	-81.2	-145.6
	119	-49.08	0.58	-0.27	4.4	-57.6	-146.1
SLV -	19	43.57	-1.65	-0.13	-6.0	-118.1	-425.5
	119	-32.95	-0.85	-0.41	0.0	-95.3	-425.1
SLV +	19	44.22	0.85	0.41	-0.0	24.3	220.6
	119	-32.30	1.65	0.13	6.0	41.5	219.5
SLE Rare -	19	47.01	-0.41	0.18	-3.2	-69.7	-106.0
	119	-39.02	0.41	-0.23	3.1	-48.7	-106.5
SLE Rare +	19	50.29	-0.41	0.23	-3.1	-56.7	-104.7
	119	-35.74	0.41	-0.18	3.2	-37.0	-105.1
SLE Frequenti -	19	44.25	-0.40	0.17	-3.1	-60.3	-101.9
	119	-34.27	0.39	-0.18	3.0	-35.2	-102.3
SLE Frequenti +	19	45.54	-0.39	0.18	-3.0	-55.1	-100.9
	119	-32.98	0.40	-0.17	3.1	-30.7	-101.3
SLE Quasi Permanenti -	19	44.36	-0.39	0.17	-3.0	-57.8	-100.9
	119	-33.10	0.39	-0.17	3.0	-32.0	-101.3
SLE Quasi Permanenti +	19	44.36	-0.39	0.17	-3.0	-57.8	-100.9
	119	-33.10	0.39	-0.17	3.0	-32.0	-101.3
SLD -	19	43.75	-0.93	0.03	-4.3	-77.1	-240.1
	119	-32.77	-0.14	-0.26	1.8	-55.9	-240.1
SLD +	19	44.03	0.14	0.26	-1.8	-16.7	35.2
	119	-32.49	0.93	-0.03	4.3	2.1	34.5
SLU Statiche -	24	62.16	-0.48	0.25	-4.6	-99.5	-122.4
	124	-52.43	0.47	-0.32	4.4	-70.4	-124.7
SLU Statiche +	24	67.08	-0.47	0.32	-4.4	-76.2	-119.5
	124	-47.52	0.48	-0.25	4.6	-53.3	-121.7
SLV -	24	42.09	-1.54	-0.14	-6.1	-115.0	-396.9
	124	-32.20	-0.90	-0.40	0.2	-92.5	-397.9
SLV +	24	43.46	0.90	0.40	-0.2	28.0	233.4
	124	-30.82	1.54	0.14	6.1	44.6	231.3
SLE Rare -	24	45.83	-0.34	0.17	-3.3	-65.6	-87.2
	124	-37.84	0.33	-0.22	3.2	-45.4	-88.8
SLE Rare +	24	49.11	-0.33	0.22	-3.2	-53.0	-84.8

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	124	-34.56	0.34	-0.17	3.3	-34.0	-86.4
SLE Frequenti -	24	43.16	-0.32	0.15	-3.1	-56.2	-80.9
	124	-33.18	0.31	-0.17	3.1	-31.9	-82.4
SLE Frequenti +	24	44.44	-0.31	0.17	-3.1	-51.3	-79.9
	124	-31.89	0.32	-0.15	3.1	-27.5	-81.4
SLE Quasi Permanenti -	24	43.29	-0.31	0.16	-3.1	-53.9	-79.9
	124	-32.02	0.31	-0.16	3.1	-28.7	-81.4
SLE Quasi Permanenti +	24	43.29	-0.31	0.16	-3.1	-53.9	-79.9
	124	-32.02	0.31	-0.16	3.1	-28.7	-81.4
SLD -	24	42.48	-0.84	0.02	-4.4	-73.8	-216.0
	124	-31.80	-0.20	-0.25	1.9	-53.0	-217.3
SLD +	24	43.07	0.20	0.25	-1.9	-13.2	52.5
	124	-31.22	0.84	-0.02	4.4	5.1	50.8
SLU Statiche -	25	61.21	-0.53	0.23	-4.8	-88.7	-136.4
	125	-51.49	0.52	-0.30	4.6	-67.4	-136.5
SLU Statiche +	25	66.14	-0.52	0.30	-4.6	-66.6	-132.7
	125	-46.56	0.53	-0.23	4.8	-50.7	-132.7
SLV -	25	40.26	-1.49	-0.22	-6.3	-125.6	-383.6
	125	-32.60	-0.80	-0.45	0.2	-105.6	-382.6
SLV +	25	43.86	0.80	0.45	-0.2	51.2	205.3
	125	-29.00	1.49	0.22	6.3	60.5	204.1
SLE Rare -	25	45.09	-0.38	0.15	-3.4	-58.1	-97.1
	125	-37.11	0.36	-0.20	3.3	-43.4	-97.1
SLE Rare +	25	48.38	-0.36	0.20	-3.3	-46.1	-93.4
	125	-33.83	0.38	-0.15	3.4	-32.3	-93.5
SLE Frequenti -	25	42.45	-0.34	0.14	-3.3	-49.4	-87.8
	125	-32.47	0.34	-0.15	3.2	-30.2	-87.9
SLE Frequenti +	25	43.73	-0.34	0.15	-3.2	-44.7	-86.4
	125	-31.18	0.34	-0.14	3.3	-26.0	-86.5
SLE Quasi Permanenti -	25	42.57	-0.34	0.14	-3.2	-47.2	-86.4
	125	-31.31	0.34	-0.14	3.2	-27.1	-86.5
SLE Quasi Permanenti +	25	42.57	-0.34	0.14	-3.2	-47.2	-86.4
	125	-31.31	0.34	-0.14	3.2	-27.1	-86.5
SLD -	25	41.30	-0.83	-0.03	-4.5	-74.8	-214.6
	125	-31.57	-0.14	-0.26	2.0	-57.9	-214.2
SLD +	25	42.83	0.14	0.26	-2.0	0.4	36.3
	125	-30.03	0.83	0.03	4.5	12.8	35.8
SLU Statiche -	27	68.70	-0.88	0.15	-4.9	-63.6	-237.8
	127	-58.79	0.85	-0.22	4.7	-52.2	-217.4
SLU Statiche +	27	73.43	-0.85	0.22	-4.7	-43.7	-229.5
	127	-54.05	0.88	-0.15	4.9	-35.4	-209.8
SLV -	27	44.11	-1.57	-0.38	-6.4	-142.1	-412.8
	127	-39.42	-0.42	-0.51	0.3	-122.2	-397.9
SLV +	27	50.69	0.42	0.51	-0.3	98.9	101.6
	127	-32.85	1.57	0.38	6.4	98.0	115.2
SLE Rare -	27	50.58	-0.63	0.10	-3.5	-41.0	-169.1
	127	-42.47	0.61	-0.14	3.4	-32.4	-155.2
SLE Rare +	27	53.73	-0.61	0.14	-3.4	-29.4	-163.4
	127	-39.31	0.63	-0.10	3.5	-21.2	-149.3
SLE Frequenti -	27	47.67	-0.57	0.09	-3.3	-33.1	-154.2
	127	-37.65	0.56	-0.10	3.3	-19.9	-140.2
SLE Frequenti +	27	48.92	-0.56	0.10	-3.3	-28.9	-151.7
	127	-36.41	0.57	-0.09	3.3	-15.7	-137.8
SLE Quasi Permanenti -	27	47.76	-0.56	0.09	-3.3	-31.4	-151.7

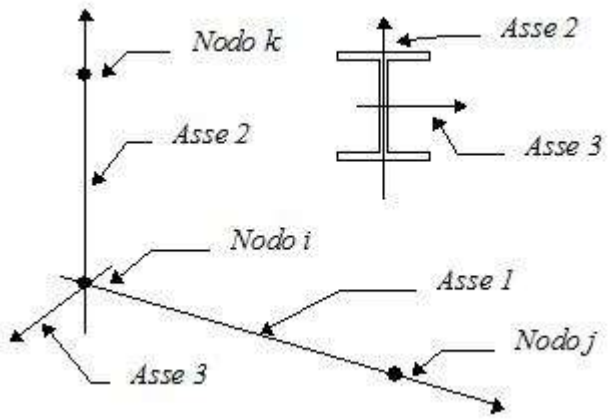
Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	127	-36.50	0.56	-0.09	3.3	-16.8	-137.8
SLE Quasi Permanenti +	27	47.76	-0.56	0.09	-3.3	-31.4	-151.7
	127	-36.50	0.56	-0.09	3.3	-16.8	-137.8
SLD -	27	46.00	-1.00	-0.13	-4.6	-72.9	-265.2
	127	-37.54	0.15	-0.26	2.0	-59.0	-250.6
SLD +	27	48.80	-0.15	0.26	-2.0	29.7	-46.0
	127	-34.73	1.00	0.13	4.6	34.8	-32.1
SLU Statiche -	29	72.99	-1.25	-0.13	-5.0	10.5	-322.0
	129	-61.48	1.20	0.08	4.8	31.1	-324.0
SLU Statiche +	29	76.13	-1.20	-0.08	-4.8	24.7	-307.9
	129	-58.35	1.25	0.13	5.0	44.1	-311.6
SLV -	29	47.98	-1.56	-0.69	-6.5	-127.6	-401.3
	129	-43.34	0.06	-0.44	0.3	-97.7	-404.1
SLV +	29	54.60	-0.06	0.44	-0.3	177.0	-16.8
	129	-36.72	1.56	0.69	6.5	179.2	-15.9
SLE Rare -	29	53.89	-0.90	-0.11	-3.6	10.9	-230.0
	129	-44.72	0.87	0.07	3.5	27.4	-234.4
SLE Rare +	29	55.98	-0.87	-0.07	-3.5	20.4	-222.0
	129	-42.63	0.90	0.11	3.6	36.1	-224.1
SLE Frequenti -	29	51.53	-0.82	-0.11	-3.4	14.5	-210.1
	129	-41.08	0.80	0.09	3.4	34.1	-211.4
SLE Frequenti +	29	52.35	-0.80	-0.09	-3.4	17.9	-206.8
	129	-40.26	0.82	0.11	3.4	37.3	-207.3
SLE Quasi Permanenti -	29	51.61	-0.80	-0.10	-3.4	15.6	-206.8
	129	-40.34	0.80	0.10	3.4	36.1	-207.3
SLE Quasi Permanenti +	29	51.61	-0.80	-0.10	-3.4	15.6	-206.8
	129	-40.34	0.80	0.10	3.4	36.1	-207.3
SLD -	29	49.88	-1.13	-0.37	-4.7	-40.2	-291.0
	129	-41.44	0.49	-0.11	2.1	-18.2	-292.7
SLD +	29	52.70	-0.49	0.11	-2.1	89.6	-127.2
	129	-38.62	1.13	0.37	4.7	99.8	-127.3

Sollecitazioni nelle travi

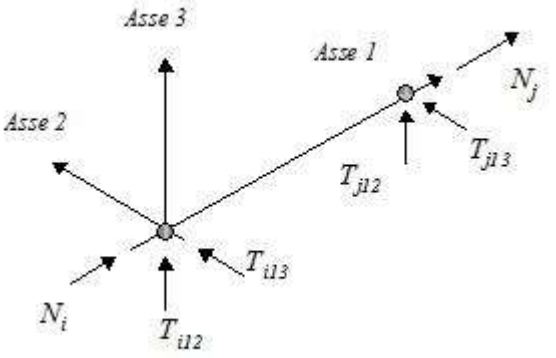
Convenzioni adottate

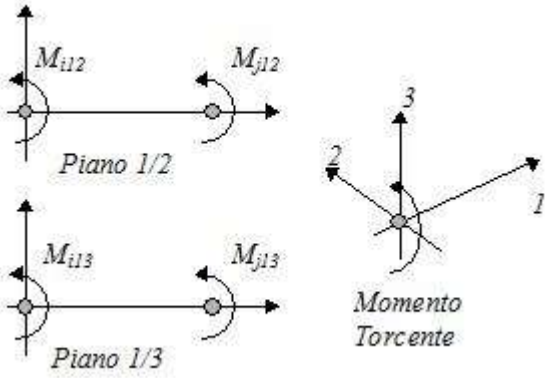
Le sollecitazioni nelle travi sono da intendersi nel sistema di riferimento locale dell'elemento, e si riferiscono all'asta. L'orientamento della trave nello spazio è definito a mezzo del nodo *K*.

La terna di riferimento locale dell'asta è così disposta:



Per quanto concerne i segni positivi assunti per le varie componenti di sollecitazione si assumono come positivi i versi e le sollecitazioni se così diretti:





Per ogni trave vengono riportate, nelle varie combinazioni di carico, le componenti di sollecitazione alle estremità dell'asta.

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLU Statiche -	2	-13.84	34.09	0.27	89.7	-52.5	1353.8
	1	13.39	33.92	-0.27	-101.0	-22.5	-1339.3
SLU Statiche +	2	-13.39	34.14	0.27	101.0	-50.4	1368.8
	1	13.84	33.98	-0.27	-89.7	-20.7	-1335.6
SLV -	2	-17.11	24.05	-0.08	33.2	-85.8	842.2
	1	1.81	23.88	-0.45	-96.1	-45.1	-1097.1
SLV +	2	-1.81	24.24	0.45	96.1	15.8	1098.1
	1	17.11	24.08	0.08	-33.2	13.9	-798.9
SLE Rare -	2	-10.16	24.12	0.19	69.9	-36.6	955.3
	1	9.79	23.99	-0.19	-71.0	-15.6	-944.0
SLE Rare +	2	-9.79	24.14	0.19	71.0	-36.2	961.6
	1	10.16	24.01	-0.19	-69.9	-15.1	-939.2
SLE Frequenti -	2	-9.49	24.11	0.18	63.4	-35.2	964.7
	1	9.34	24.00	-0.18	-66.0	-15.2	-951.2
SLE Frequenti +	2	-9.34	24.13	0.18	66.0	-34.7	967.8
	1	9.49	24.01	-0.18	-63.4	-14.8	-949.3
SLE Quasi Permanenti -	2	-9.34	24.12	0.18	63.4	-34.7	967.0
	1	9.34	24.00	-0.18	-63.4	-15.0	-951.2
SLE Quasi Permanenti +	2	-9.34	24.12	0.18	63.4	-34.7	967.0
	1	9.34	24.00	-0.18	-63.4	-15.0	-951.2
SLD -	2	-12.71	24.10	0.07	51.3	-56.6	915.8
	1	6.21	23.94	-0.30	-78.0	-28.1	-1011.4

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLD +	2	-6.21	24.18	0.30	78.0	-13.4	1024.6
	1	12.71	24.02	-0.07	-51.3	-3.1	-884.7
SLU Statiche -	3	10.55	31.65	-0.59	207.3	32.5	1763.0
	2	-11.66	27.64	0.56	-228.7	101.7	-1441.6
SLU Statiche +	3	11.66	31.76	-0.56	228.7	33.7	1926.2
	2	-10.55	27.75	0.59	-207.3	107.2	-1269.1
SLV -	3	-0.80	19.58	-0.50	111.4	15.8	1255.5
	2	-15.09	16.72	0.28	-214.5	36.4	-1854.8
SLV +	3	15.09	25.28	-0.28	214.5	29.8	1520.6
	2	0.80	22.42	0.50	-111.4	103.7	-234.8
SLE Rare -	3	7.74	22.44	-0.42	151.2	23.8	1290.8
	2	-8.11	19.50	0.41	-164.1	74.5	-1012.8
SLE Rare +	3	8.11	22.50	-0.41	164.1	24.5	1372.4
	2	-7.74	19.56	0.42	-151.2	76.8	-942.2
SLE Frequenti -	3	7.28	22.35	-0.39	145.4	22.4	1271.0
	2	-7.51	19.62	0.38	-150.1	69.9	-977.6
SLE Frequenti +	3	7.51	22.38	-0.38	150.1	22.7	1306.4
	2	-7.28	19.65	0.39	-145.4	71.1	-940.8
SLE Quasi Permanenti -	3	7.33	22.35	-0.38	145.8	22.4	1279.2
	2	-7.33	19.65	0.38	-145.8	69.9	-955.1
SLE Quasi Permanenti +	3	7.33	22.35	-0.38	145.8	22.4	1279.2
	2	-7.33	19.65	0.38	-145.8	69.9	-955.1
SLD -	3	3.78	21.22	-0.43	141.0	19.8	1331.6
	2	-10.52	18.36	0.34	-184.9	55.8	-1389.4
SLD +	3	10.52	23.64	-0.34	184.9	25.7	1444.5
	2	-3.78	20.78	0.43	-141.0	84.4	-700.2
SLU Statiche -	5	-10.55	13.89	0.31	32.8	-23.8	581.0
	6	10.05	12.83	-0.33	-37.2	-67.6	-452.6
SLU Statiche +	5	-10.05	13.98	0.33	37.2	-22.3	593.4
	6	10.55	12.92	-0.31	-32.8	-63.8	-436.2
SLV -	5	-11.98	10.50	0.00	-31.7	-35.0	325.4
	6	1.89	9.82	-0.43	-74.7	-83.3	-516.7
SLV +	5	-1.89	10.81	0.43	74.7	3.7	582.6
	6	11.98	10.12	-0.00	31.7	-3.6	-203.5
SLE Rare -	5	-7.73	10.68	0.23	23.2	-16.7	450.0
	6	7.36	9.93	-0.23	-24.0	-47.0	-350.4
SLE Rare +	5	-7.36	10.70	0.23	24.0	-16.4	453.9
	6	7.73	9.94	-0.23	-23.2	-46.0	-344.6
SLE Frequenti -	5	-7.04	10.66	0.21	20.4	-16.0	453.9
	6	6.89	9.94	-0.22	-21.4	-44.1	-358.4
SLE Frequenti +	5	-6.89	10.68	0.22	21.4	-15.7	456.8
	6	7.04	9.96	-0.21	-20.4	-43.3	-355.1
SLE Quasi Permanenti -	5	-6.89	10.67	0.21	20.4	-15.7	455.5
	6	6.89	9.96	-0.21	-20.4	-43.3	-357.9
SLE Quasi Permanenti +	5	-6.89	10.67	0.21	20.4	-15.7	455.5
	6	6.89	9.96	-0.21	-20.4	-43.3	-357.9
SLD -	5	-9.08	10.59	0.12	-1.0	-23.9	399.4
	6	4.79	9.91	-0.31	-44.1	-60.4	-426.7
SLD +	5	-4.79	10.72	0.31	44.1	-7.4	508.7
	6	9.08	10.04	-0.12	1.0	-26.5	-293.5
SLU Statiche -	6	-5.23	31.99	-0.25	-150.4	43.3	1422.7
	7	5.11	34.51	0.24	138.9	13.2	-1955.0
SLU Statiche +	6	-5.11	32.09	-0.24	-138.9	45.9	1647.0

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	7	5.23	34.61	0.25	150.4	14.3	-1737.4
SLV -	6	-7.92	21.70	-0.24	-142.8	14.6	628.9
	7	-0.38	23.56	0.08	49.6	2.2	-1784.3
SLV +	6	0.38	23.24	-0.08	-49.6	43.4	1744.2
	7	7.92	25.10	0.24	142.8	14.9	-1033.9
SLE Rare -	6	-3.86	22.44	-0.17	-101.6	30.9	1063.1
	7	3.74	24.30	0.17	98.0	9.2	-1379.8
SLE Rare +	6	-3.74	22.50	-0.17	-98.0	31.8	1150.5
	7	3.86	24.36	0.17	101.6	9.6	-1281.3
SLE Frequenti -	6	-3.65	22.51	-0.16	-102.2	28.6	1051.4
	7	3.61	24.27	0.15	99.8	8.3	-1311.5
SLE Frequenti +	6	-3.61	22.53	-0.15	-99.8	29.2	1099.2
	7	3.65	24.29	0.16	102.2	8.5	-1264.7
SLE Quasi Permanenti -	6	-3.61	22.53	-0.15	-101.0	28.6	1070.1
	7	3.61	24.27	0.15	101.0	8.3	-1279.0
SLE Quasi Permanenti +	6	-3.61	22.53	-0.15	-101.0	28.6	1070.1
	7	3.61	24.27	0.15	101.0	8.3	-1279.0
SLD -	6	-5.53	22.14	-0.19	-116.0	22.9	949.3
	7	2.00	24.00	0.12	76.4	5.9	-1568.8
SLD +	6	-2.00	22.80	-0.12	-76.4	35.1	1423.8
	7	5.53	24.66	0.19	116.0	11.3	-1249.4
SLU Statiche -	9	-16.17	81.09	0.45	-137.4	-60.7	3552.3
	10	15.61	79.70	-0.47	130.4	-69.2	-3378.1
SLU Statiche +	9	-15.61	81.18	0.47	-130.4	-57.3	3563.7
	10	16.17	79.79	-0.45	137.4	-65.9	-3359.8
SLV -	9	-15.14	55.33	0.04	-170.3	-64.9	2316.4
	10	6.19	54.44	-0.56	21.1	-90.5	-2454.3
SLV +	9	-6.19	55.56	0.56	-21.1	-13.2	2548.7
	10	15.14	54.67	-0.04	170.3	2.3	-2165.2
SLE Rare -	9	-11.52	55.48	0.32	-98.9	-43.0	2427.7
	10	11.14	54.51	-0.33	98.5	-48.3	-2299.7
SLE Rare +	9	-11.14	55.49	0.33	-98.5	-41.7	2431.5
	10	11.52	54.52	-0.32	98.9	-46.8	-2292.7
SLE Frequenti -	9	-10.82	55.46	0.30	-97.3	-39.7	2431.6
	10	10.67	54.52	-0.31	95.9	-44.6	-2307.0
SLE Frequenti +	9	-10.67	55.48	0.31	-95.9	-39.0	2434.3
	10	10.82	54.54	-0.30	97.3	-43.9	-2303.3
SLE Quasi Permanenti -	9	-10.67	55.46	0.30	-96.0	-39.0	2433.1
	10	10.67	54.54	-0.30	96.0	-43.9	-2306.1
SLE Quasi Permanenti +	9	-10.67	55.46	0.30	-96.0	-39.0	2433.1
	10	10.67	54.54	-0.30	96.0	-43.9	-2306.1
SLD -	9	-12.57	55.40	0.19	-127.4	-50.0	2383.1
	10	8.76	54.51	-0.41	63.9	-63.8	-2371.3
SLD +	9	-8.76	55.49	0.41	-63.9	-28.0	2481.9
	10	12.57	54.60	-0.19	127.4	-24.4	-2248.2
SLU Statiche -	10	-4.18	31.13	0.07	-495.6	0.9	932.1
	11	4.09	35.33	-0.08	480.1	-20.1	-1649.8
SLU Statiche +	10	-4.09	31.27	0.08	-480.1	1.9	1153.5
	11	4.18	35.47	-0.07	495.6	-18.1	-1452.5
SLV -	10	-7.04	20.78	-0.09	-391.7	-18.9	269.2
	11	-1.13	23.71	-0.19	312.3	-27.9	-1481.7
SLV +	10	1.13	23.09	0.19	-312.3	19.6	1407.6
	11	7.04	26.02	0.09	391.7	2.0	-898.8
SLE Rare -	10	-3.06	21.88	0.05	-357.2	-0.0	719.2

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	11	2.95	24.89	-0.06	345.2	-14.3	-1159.8
SLE Rare +	10	-2.95	21.91	0.06	-345.2	0.6	795.8
	11	3.06	24.92	-0.05	357.2	-13.6	-1076.8
SLE Frequenti -	10	-2.85	21.94	0.06	-340.0	-0.5	714.9
	11	2.81	24.83	-0.06	336.0	-13.8	-1108.1
SLE Frequenti +	10	-2.81	21.97	0.06	-336.0	-0.3	761.8
	11	2.85	24.86	-0.06	340.0	-13.4	-1065.9
SLE Quasi Permanenti -	10	-2.81	21.96	0.06	-336.0	-0.5	736.2
	11	2.81	24.84	-0.06	336.0	-13.6	-1080.7
SLE Quasi Permanenti +	10	-2.81	21.96	0.06	-336.0	-0.5	736.2
	11	2.81	24.84	-0.06	336.0	-13.6	-1080.7
SLD -	10	-4.69	21.44	-0.01	-368.9	-7.8	596.1
	11	1.22	24.37	-0.11	335.1	-19.3	-1314.3
SLD +	10	-1.22	22.43	0.11	-335.1	8.5	1080.7
	11	4.69	25.36	0.01	368.9	-6.6	-1066.2
SLU Statiche -	1	-18.24	26.18	-0.94	40.9	110.5	1021.3
	5	17.00	22.09	0.90	-44.8	81.9	-593.1
SLU Statiche +	1	-17.00	26.29	-0.90	44.8	117.6	1029.1
	5	18.24	22.20	0.94	-40.9	84.3	-577.3
SLV -	1	-16.67	17.85	-1.24	-8.8	7.4	611.5
	5	7.57	15.07	-0.00	-72.9	-12.2	-473.0
SLV +	1	-7.57	19.33	0.00	72.9	147.1	831.5
	5	16.67	16.55	1.24	8.8	124.1	-373.0
SLE Rare -	1	-12.99	18.66	-0.65	30.5	80.7	726.7
	5	12.74	15.71	0.64	-30.6	57.6	-413.7
SLE Rare +	1	-12.74	18.69	-0.64	30.6	81.5	729.8
	5	12.99	15.74	0.65	-30.5	58.4	-410.2
SLE Frequenti -	1	-12.45	18.57	-0.63	31.3	77.3	718.4
	5	12.20	15.81	0.62	-32.1	55.3	-424.8
SLE Frequenti +	1	-12.20	18.59	-0.62	32.1	78.7	720.6
	5	12.45	15.83	0.63	-31.3	55.9	-421.2
SLE Quasi Permanenti -	1	-12.23	18.57	-0.62	32.1	77.3	718.4
	5	12.23	15.83	0.62	-32.1	55.3	-424.8
SLE Quasi Permanenti +	1	-12.23	18.57	-0.62	32.1	77.3	718.4
	5	12.23	15.83	0.62	-32.1	55.3	-424.8
SLD -	1	-14.05	18.27	-0.88	14.7	47.4	674.9
	5	10.19	15.50	0.35	-49.4	27.0	-444.2
SLD +	1	-10.19	18.90	-0.35	49.4	107.0	768.2
	5	14.05	16.13	0.88	-14.7	85.0	-401.8
SLU Statiche -	5	-35.27	26.75	-0.58	8.6	104.0	1017.3
	9	33.15	23.83	0.54	-10.8	18.0	-695.2
SLU Statiche +	5	-33.15	26.80	-0.54	10.8	111.3	1018.7
	9	35.27	23.87	0.58	-8.6	19.8	-683.6
SLV -	5	-26.95	18.11	-0.81	-34.3	18.3	630.4
	9	18.81	16.21	-0.08	-52.7	-36.7	-606.8
SLV +	5	-18.81	19.79	0.08	52.7	123.1	805.4
	9	26.95	17.89	0.81	34.3	59.6	-401.6
SLE Rare -	5	-24.77	18.98	-0.41	10.2	75.9	718.0
	9	24.25	16.99	0.39	-10.6	12.9	-496.4
SLE Rare +	5	-24.25	19.01	-0.39	10.6	78.3	719.1
	9	24.77	17.02	0.41	-10.2	13.7	-492.8
SLE Frequenti -	5	-23.28	18.94	-0.37	9.3	70.1	716.4
	9	22.85	17.05	0.36	-9.8	10.9	-505.8
SLE Frequenti +	5	-22.85	18.95	-0.36	9.8	71.7	716.9

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	9	23.28	17.06	0.37	-9.3	11.4	-503.1
SLE Quasi Permanenti -	5	-22.85	18.94	-0.36	9.4	70.1	716.4
	9	22.85	17.06	0.36	-9.4	10.9	-505.8
SLE Quasi Permanenti +	5	-22.85	18.94	-0.36	9.4	70.1	716.4
	9	22.85	17.06	0.36	-9.4	10.9	-505.8
SLD -	5	-24.61	18.59	-0.55	-9.3	48.4	680.8
	9	21.15	16.69	0.18	-27.7	-9.0	-547.7
SLD +	5	-21.15	19.31	-0.18	27.7	92.9	755.0
	9	24.61	17.41	0.55	9.3	31.9	-460.7
SLU Statiche -	2	-1.48	10.29	0.41	-83.7	-23.0	203.0
	6	1.35	10.61	-0.44	75.9	-71.5	-252.0
SLU Statiche +	2	-1.35	10.35	0.44	-75.9	-20.6	212.2
	6	1.48	10.67	-0.41	83.7	-66.9	-230.5
SLV -	2	-1.63	7.67	0.08	-86.9	-45.0	88.5
	6	0.09	7.93	-0.49	20.2	-61.2	-243.7
SLV +	2	-0.09	8.20	0.49	-20.2	15.6	244.7
	6	1.63	8.45	-0.08	86.9	-32.2	-144.4
SLE Rare -	2	-0.95	7.94	0.30	-57.3	-15.6	160.3
	6	0.93	8.16	-0.31	56.9	-50.5	-186.3
SLE Rare +	2	-0.93	7.96	0.31	-56.9	-15.5	162.0
	6	0.95	8.18	-0.30	57.3	-49.5	-183.4
SLE Frequenti -	2	-0.89	7.95	0.28	-54.7	-14.9	166.5
	6	0.87	8.16	-0.29	53.1	-47.5	-191.7
SLE Frequenti +	2	-0.87	7.97	0.29	-53.1	-14.5	168.7
	6	0.89	8.17	-0.28	54.7	-46.5	-187.3
SLE Quasi Permanenti -	2	-0.87	7.96	0.28	-53.1	-14.5	168.7
	6	0.87	8.17	-0.28	53.1	-46.5	-191.0
SLE Quasi Permanenti +	2	-0.87	7.96	0.28	-53.1	-14.5	168.7
	6	0.87	8.17	-0.28	53.1	-46.5	-191.0
SLD -	2	-1.19	7.82	0.20	-67.7	-27.6	133.4
	6	0.53	8.08	-0.37	39.4	-52.8	-215.1
SLD +	2	-0.53	8.05	0.37	-39.4	-1.8	199.8
	6	1.19	8.30	-0.20	67.7	-40.5	-173.0
SLU Statiche -	6	-7.30	10.99	-0.28	137.8	52.3	65.1
	10	6.89	10.90	0.26	-141.9	6.7	-78.6
SLU Statiche +	6	-6.89	11.04	-0.26	141.9	55.6	92.9
	10	7.30	10.95	0.28	-137.8	7.3	-61.2
SLV -	6	-6.33	8.29	-0.33	41.7	22.8	37.6
	10	2.96	8.19	0.05	-152.8	-12.2	-173.9
SLV +	6	-2.96	8.68	-0.05	152.8	50.8	144.0
	10	6.33	8.58	0.33	-41.7	22.9	14.8
SLE Rare -	6	-5.07	8.45	-0.20	98.5	38.3	74.0
	10	4.94	8.41	0.19	-99.8	5.0	-72.4
SLE Rare +	6	-4.94	8.47	-0.19	99.8	39.3	77.0
	10	5.07	8.42	0.20	-98.5	5.5	-70.2
SLE Frequenti -	6	-4.72	8.47	-0.20	98.2	37.2	84.9
	10	4.64	8.40	0.19	-99.1	5.9	-82.5
SLE Frequenti +	6	-4.64	8.48	-0.19	99.1	37.9	90.5
	10	4.72	8.41	0.20	-98.2	6.0	-78.6
SLE Quasi Permanenti -	6	-4.64	8.47	-0.19	98.6	37.4	90.4
	10	4.64	8.40	0.19	-98.6	6.0	-82.5
SLE Quasi Permanenti +	6	-4.64	8.47	-0.19	98.6	37.4	90.4
	10	4.64	8.40	0.19	-98.6	6.0	-82.5
SLD -	6	-5.36	8.40	-0.25	73.6	30.8	68.1

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	10	3.93	8.30	0.13	-120.8	-2.1	-119.7
SLD +	6	-3.93	8.57	-0.13	120.8	42.7	113.5
	10	5.36	8.47	0.25	-73.6	12.8	-39.4
SLU Statiche -	7	1.54	16.58	0.55	-50.2	-63.7	-172.1
	3	-1.61	20.46	-0.58	7.3	-61.8	-261.2
SLU Statiche +	7	1.61	16.63	0.58	-7.3	-60.5	-150.0
	3	-1.54	20.51	-0.55	50.2	-58.1	-250.7
SLV -	7	-0.16	11.44	0.15	-79.4	-61.0	-205.0
	3	-2.45	14.22	-0.60	-0.3	-70.0	-400.5
SLV +	7	2.45	12.65	0.60	0.3	-21.4	-23.9
	3	0.16	15.44	-0.15	79.4	-8.2	31.1
SLE Rare -	7	1.12	11.99	0.40	-34.8	-44.9	-130.9
	3	-1.18	14.83	-0.41	17.3	-43.4	-185.5
SLE Rare +	7	1.18	12.05	0.41	-17.3	-43.6	-113.6
	3	-1.12	14.88	-0.40	34.8	-42.0	-179.5
SLE Frequenti -	7	1.07	12.10	0.37	-22.0	-41.5	-97.1
	3	-1.09	14.76	-0.38	12.8	-39.8	-192.7
SLE Frequenti +	7	1.09	12.12	0.38	-12.8	-40.8	-91.3
	3	-1.07	14.78	-0.37	22.0	-39.0	-190.4
SLE Quasi Permanenti -	7	1.07	12.12	0.37	-16.1	-40.8	-91.3
	3	-1.07	14.76	-0.37	16.1	-39.0	-192.7
SLE Quasi Permanenti +	7	1.07	12.12	0.37	-16.1	-40.8	-91.3
	3	-1.07	14.76	-0.37	16.1	-39.0	-192.7
SLD -	7	0.59	11.79	0.28	-56.5	-49.6	-153.0
	3	-1.70	14.57	-0.47	22.6	-52.2	-276.5
SLD +	7	1.70	12.30	0.47	-22.6	-32.8	-75.9
	3	-0.59	15.09	-0.28	56.5	-26.0	-92.8
SLU Statiche -	11	3.12	20.44	0.40	487.3	-65.4	74.5
	7	-3.19	18.33	-0.42	-502.6	-28.3	135.8
SLU Statiche +	11	3.19	20.48	0.42	502.6	-62.7	97.5
	7	-3.12	18.37	-0.40	-487.3	-27.7	160.4
SLV -	11	0.14	14.17	0.02	296.4	-72.3	11.5
	7	-4.32	12.68	-0.51	-415.8	-43.7	-24.8
SLV +	11	4.32	15.45	0.51	415.8	-11.7	110.8
	7	-0.14	13.96	-0.02	-296.4	7.3	237.6
SLE Rare -	11	2.25	14.82	0.28	350.0	-45.6	47.9
	7	-2.33	13.30	-0.29	-360.9	-19.8	103.1
SLE Rare +	11	2.33	14.83	0.29	360.9	-44.2	67.3
	7	-2.25	13.31	-0.28	-350.0	-18.9	124.6
SLE Frequenti -	11	2.12	14.80	0.26	341.6	-41.6	80.6
	7	-2.15	13.32	-0.26	-345.2	-17.5	77.9
SLE Frequenti +	11	2.15	14.80	0.26	345.2	-40.8	87.0
	7	-2.12	13.33	-0.26	-341.6	-17.2	85.0
SLE Quasi Permanenti -	11	2.12	14.80	0.26	341.6	-40.8	87.0
	7	-2.12	13.33	-0.26	-341.6	-17.2	77.9
SLE Quasi Permanenti +	11	2.12	14.80	0.26	341.6	-40.8	87.0
	7	-2.12	13.33	-0.26	-341.6	-17.2	77.9
SLD -	11	1.34	14.53	0.16	330.7	-54.8	40.1
	7	-3.12	13.04	-0.37	-381.4	-29.0	50.5
SLD +	11	3.12	15.08	0.37	381.4	-29.2	82.2
	7	-1.34	13.59	-0.16	-330.7	-7.4	162.3
SLU Statiche -	33	8.66	27.38	0.50	-19.2	-100.9	1047.3
	29	-9.57	30.68	-0.52	15.3	-21.1	-1554.6

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLU Statiche +	33	9.57	27.48	0.52	-15.3	-96.7	1172.1
	29	-8.66	30.78	-0.50	19.2	-20.7	-1446.8
SLV -	33	-7.30	15.43	0.04	-118.7	-128.5	-263.1
	29	-18.84	17.67	-0.64	-98.1	-25.5	-1287.3
SLV +	33	18.84	23.45	0.64	98.1	-3.5	1964.3
	29	7.30	25.70	-0.04	118.7	-3.6	-941.8
SLE Rare -	33	6.32	19.39	0.36	-11.5	-71.7	784.6
	29	-6.60	21.71	-0.37	9.6	-15.2	-1107.5
SLE Rare +	33	6.60	19.41	0.37	-9.6	-69.6	832.5
	29	-6.32	21.73	-0.36	11.5	-14.8	-1054.6
SLE Frequenti -	33	5.83	19.45	0.34	-8.4	-66.6	776.1
	29	-6.01	21.66	-0.34	7.6	-14.4	-1061.6
SLE Frequenti +	33	6.01	19.47	0.34	-7.6	-65.7	802.7
	29	-5.83	21.68	-0.34	8.4	-14.3	-1038.3
SLE Quasi Permanenti -	33	5.85	19.47	0.34	-7.8	-65.7	786.7
	29	-5.85	21.66	-0.34	7.8	-14.3	-1044.0
SLE Quasi Permanenti +	33	5.85	19.47	0.34	-7.8	-65.7	786.7
	29	-5.85	21.66	-0.34	7.8	-14.3	-1044.0
SLD -	33	0.21	17.73	0.21	-56.5	-92.6	376.1
	29	-11.33	19.98	-0.47	-35.9	-19.2	-1188.2
SLD +	33	11.33	21.15	0.47	35.9	-39.4	1325.1
	29	-0.21	23.40	-0.21	56.5	-9.9	-1040.9
SLU Statiche -	36	-16.63	69.99	-0.47	-172.9	55.8	2968.3
	33	16.11	70.23	0.46	157.5	70.7	-3010.2
SLU Statiche +	36	-16.11	70.02	-0.46	-157.5	57.1	2973.5
	33	16.63	70.26	0.47	172.9	74.5	-3002.2
SLV -	36	-18.88	47.92	-0.56	-151.2	9.1	1874.7
	33	3.51	48.11	0.08	65.3	-1.5	-2241.7
SLV +	36	-3.51	48.14	-0.08	-65.3	67.5	2204.5
	33	18.88	48.33	0.56	151.2	100.0	-1890.9
SLE Rare -	36	-11.77	48.03	-0.34	-118.8	39.4	2030.9
	33	11.47	48.21	0.33	116.6	51.7	-2061.6
SLE Rare +	36	-11.47	48.04	-0.33	-116.6	40.5	2035.1
	33	11.77	48.22	0.34	118.8	52.7	-2057.3
SLE Frequenti -	36	-11.31	48.04	-0.32	-111.2	38.0	2038.9
	33	11.18	48.21	0.32	108.2	48.9	-2064.5
SLE Frequenti +	36	-11.18	48.04	-0.32	-108.2	38.4	2040.6
	33	11.31	48.21	0.32	111.2	49.7	-2062.8
SLE Quasi Permanenti -	36	-11.19	48.04	-0.32	-108.2	38.0	2040.6
	33	11.19	48.21	0.32	108.2	48.9	-2063.9
SLE Quasi Permanenti +	36	-11.19	48.04	-0.32	-108.2	38.0	2040.6
	33	11.19	48.21	0.32	108.2	48.9	-2063.9
SLD -	36	-14.47	47.98	-0.42	-126.5	25.9	1969.4
	33	7.92	48.17	0.22	90.0	27.6	-2141.0
SLD +	36	-7.92	48.08	-0.22	-90.0	50.7	2109.8
	33	14.47	48.27	0.42	126.5	70.9	-1991.6
SLU Statiche -	18	-16.02	80.97	0.09	-132.9	-24.0	3471.1
	16	15.52	79.83	-0.10	127.9	-4.1	-3330.4
SLU Statiche +	18	-15.52	81.05	0.10	-127.9	-22.5	3479.3
	16	16.02	79.90	-0.09	132.9	-3.5	-3311.8
SLV -	18	-12.99	55.20	-0.28	-233.7	-54.5	2308.8
	16	8.40	54.49	-0.40	-51.6	-55.1	-2383.8
SLV +	18	-8.40	55.51	0.40	51.6	24.8	2441.8
	16	12.99	54.80	0.28	233.7	52.9	-2169.6

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLE Rare -	18	-11.43	55.39	0.06	-93.6	-16.6	2367.8
	16	11.10	54.60	-0.07	93.2	-2.4	-2265.3
SLE Rare +	18	-11.10	55.40	0.07	-93.2	-16.0	2372.0
	16	11.43	54.61	-0.06	93.6	-1.8	-2258.0
SLE Frequenti -	18	-10.83	55.37	0.06	-92.3	-15.1	2373.9
	16	10.70	54.62	-0.06	91.3	-1.1	-2274.6
SLE Frequenti +	18	-10.70	55.38	0.06	-91.3	-14.8	2376.0
	16	10.83	54.63	-0.06	92.3	-0.8	-2270.8
SLE Quasi Permanenti -	18	-10.70	55.37	0.06	-91.3	-14.8	2375.6
	16	10.70	54.63	-0.06	91.3	-0.8	-2273.9
SLE Quasi Permanenti +	18	-10.70	55.37	0.06	-91.3	-14.8	2375.6
	16	10.70	54.63	-0.06	91.3	-0.8	-2273.9
SLD -	18	-11.67	55.29	-0.09	-151.8	-31.7	2347.0
	16	9.72	54.58	-0.20	30.3	-24.1	-2322.2
SLD +	18	-9.72	55.42	0.20	-30.3	2.1	2403.6
	16	11.67	54.71	0.09	151.8	21.9	-2231.2
SLU Statiche -	16	0.82	29.61	0.20	-294.4	-21.6	641.6
	14	-1.17	35.44	-0.22	287.6	-29.3	-1516.2
SLU Statiche +	16	1.17	29.77	0.22	-287.6	-19.8	843.1
	14	-0.82	35.60	-0.20	294.4	-27.0	-1345.1
SLV -	16	-2.45	19.97	-0.03	-239.6	-32.1	161.8
	14	-3.59	24.01	-0.31	177.2	-41.8	-1339.0
SLV +	16	3.59	21.81	0.31	-177.2	3.8	1079.6
	14	2.45	25.86	0.03	239.6	4.4	-852.6
SLE Rare -	16	0.66	20.82	0.15	-214.0	-15.2	511.2
	14	-0.77	24.98	-0.15	208.6	-20.5	-1068.5
SLE Rare +	16	0.77	20.84	0.15	-208.6	-14.7	577.0
	14	-0.66	25.00	-0.15	214.0	-19.7	-997.9
SLE Frequenti -	16	0.68	20.89	0.14	-203.1	-14.9	514.0
	14	-0.75	24.90	-0.15	201.2	-19.5	-1026.1
SLE Frequenti +	16	0.75	20.92	0.15	-201.2	-14.6	556.5
	14	-0.68	24.94	-0.14	203.1	-19.1	-989.5
SLE Quasi Permanenti -	16	0.71	20.92	0.14	-201.2	-14.7	535.1
	14	-0.71	24.90	-0.14	201.2	-19.2	-1002.8
SLE Quasi Permanenti +	16	0.71	20.92	0.14	-201.2	-14.7	535.1
	14	-0.71	24.90	-0.14	201.2	-19.2	-1002.8
SLD -	16	-0.71	20.50	0.07	-221.7	-21.8	425.8
	14	-1.85	24.54	-0.21	195.1	-28.5	-1199.2
SLD +	16	1.85	21.28	0.21	-195.1	-6.5	815.6
	14	0.71	25.33	-0.07	221.7	-8.9	-992.5
SLU Statiche -	23	-17.06	79.91	-0.07	-82.3	15.5	3289.4
	26	16.56	80.89	0.07	79.5	4.1	-3434.6
SLU Statiche +	23	-16.56	79.98	-0.07	-79.5	15.8	3308.6
	26	17.06	80.97	0.07	82.3	4.2	-3427.5
SLV -	23	-13.29	54.56	-0.37	-194.1	-40.1	2166.7
	26	9.55	55.17	-0.27	-82.1	-33.1	-2402.5
SLV +	23	-9.55	54.83	0.27	82.1	62.0	2356.7
	26	13.29	55.44	0.37	194.1	39.3	-2288.0
SLE Rare -	23	-12.17	54.66	-0.05	-58.2	11.0	2242.2
	26	11.84	55.33	0.05	57.7	2.9	-2341.2
SLE Rare +	23	-11.84	54.67	-0.05	-57.7	11.0	2249.5
	26	12.17	55.34	0.05	58.2	3.0	-2336.8
SLE Frequenti -	23	-11.55	54.67	-0.05	-56.5	10.9	2256.1
	26	11.42	55.31	0.05	55.9	3.0	-2345.7

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLE Frequenti +	23	-11.42	54.69	-0.05	-55.9	11.0	2260.0
	26	11.55	55.33	0.05	56.5	3.1	-2343.8
SLE Quasi Permanenti -	23	-11.42	54.69	-0.05	-55.9	10.9	2259.4
	26	11.42	55.31	0.05	55.9	3.0	-2345.6
SLE Quasi Permanenti +	23	-11.42	54.69	-0.05	-55.9	10.9	2259.4
	26	11.42	55.31	0.05	55.9	3.0	-2345.6
SLD -	23	-12.21	54.64	-0.19	-114.9	-10.8	2221.5
	26	10.62	55.25	-0.08	-2.9	-12.3	-2369.5
SLD +	23	-10.62	54.75	0.08	2.9	32.7	2302.0
	26	12.21	55.36	0.19	114.9	18.5	-2321.0
SLU Statiche -	19	4.30	35.51	0.05	-138.5	-4.8	1321.3
	23	-4.79	29.53	-0.06	136.3	-8.4	-793.3
SLU Statiche +	19	4.79	35.68	0.06	-136.3	-4.4	1482.7
	23	-4.30	29.70	-0.05	138.5	-7.9	-599.3
SLV -	19	0.25	24.16	-0.16	-166.0	-29.5	874.5
	23	-5.71	20.02	-0.23	28.4	-23.9	-973.0
SLV +	19	5.71	25.80	0.23	-28.4	23.7	1268.3
	23	-0.25	21.66	0.16	166.0	13.0	-196.7
SLE Rare -	19	3.16	25.03	0.04	-99.9	-3.3	978.8
	23	-3.30	20.77	-0.04	97.7	-5.8	-540.3
SLE Rare +	19	3.30	25.06	0.04	-97.7	-3.1	1044.8
	23	-3.16	20.79	-0.04	99.9	-5.6	-478.6
SLE Frequenti -	19	3.08	24.95	0.04	-95.0	-3.1	972.0
	23	-3.18	20.84	-0.04	94.2	-5.7	-525.7
SLE Frequenti +	19	3.18	24.99	0.04	-94.2	-3.0	1006.5
	23	-3.08	20.87	-0.04	95.0	-5.6	-484.9
SLE Quasi Permanenti -	19	3.11	24.95	0.04	-94.2	-3.1	984.8
	23	-3.11	20.87	-0.04	94.2	-5.6	-505.9
SLE Quasi Permanenti +	19	3.11	24.95	0.04	-94.2	-3.1	984.8
	23	-3.11	20.87	-0.04	94.2	-5.6	-505.9
SLD -	19	1.83	24.64	-0.05	-126.5	-14.2	987.9
	23	-4.14	20.49	-0.12	67.9	-13.3	-749.4
SLD +	19	4.14	25.33	0.12	-67.9	8.4	1154.9
	23	-1.83	21.19	0.05	126.5	2.4	-420.3
SLU Statiche -	28	-16.73	79.96	-0.14	-54.5	14.3	3315.7
	31	16.23	80.85	0.13	52.8	22.7	-3447.5
SLU Statiche +	28	-16.23	80.03	-0.13	-52.8	14.8	3333.4
	31	16.73	80.92	0.14	54.5	23.9	-3439.7
SLV -	28	-12.80	54.60	-0.40	-174.9	-40.7	2184.6
	31	9.56	55.14	-0.22	-103.1	-20.1	-2413.5
SLV +	28	-9.56	54.86	0.22	103.1	58.4	2373.7
	31	12.80	55.40	0.40	174.9	50.6	-2294.4
SLE Rare -	28	-11.92	54.69	-0.10	-38.6	9.5	2260.8
	31	11.59	55.30	0.09	37.5	16.1	-2350.4
SLE Rare +	28	-11.59	54.70	-0.09	-37.5	10.0	2267.8
	31	11.92	55.31	0.10	38.6	16.6	-2346.0
SLE Frequenti -	28	-11.32	54.71	-0.09	-35.8	8.6	2273.8
	31	11.19	55.28	0.09	35.4	15.1	-2354.5
SLE Frequenti +	28	-11.19	54.72	-0.09	-35.4	8.8	2277.4
	31	11.32	55.29	0.09	35.8	15.4	-2352.5
SLE Quasi Permanenti -	28	-11.19	54.72	-0.09	-35.4	8.6	2276.8
	31	11.19	55.28	0.09	35.4	15.1	-2354.2
SLE Quasi Permanenti +	28	-11.19	54.72	-0.09	-35.4	8.6	2276.8
	31	11.19	55.28	0.09	35.4	15.1	-2354.2

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLD -	28	-11.87	54.67	-0.22	-95.2	-12.2	2239.1
	31	10.49	55.22	-0.04	-23.4	0.2	-2379.2
SLD +	28	-10.49	54.78	0.04	23.4	30.0	2319.2
	31	11.87	55.33	0.22	95.2	30.3	-2328.7
SLU Statiche -	24	3.26	35.26	-0.18	-42.4	25.2	1303.3
	28	-3.65	29.80	0.17	39.4	14.6	-830.3
SLU Statiche +	24	3.65	35.41	-0.17	-39.4	26.6	1459.8
	28	-3.26	29.95	0.18	42.4	15.5	-643.7
SLV -	24	-0.59	23.96	-0.34	-92.7	-11.0	857.6
	28	-5.08	20.19	-0.10	-33.4	-13.8	-1003.0
SLV +	24	5.08	25.64	0.10	33.4	46.4	1250.6
	28	0.59	21.86	0.34	92.7	35.0	-217.8
SLE Rare -	24	2.37	24.85	-0.13	-30.2	18.5	965.0
	28	-2.49	20.96	0.13	28.3	10.9	-568.1
SLE Rare +	24	2.49	24.87	-0.13	-28.3	18.8	1027.9
	28	-2.37	20.98	0.13	30.2	11.1	-509.1
SLE Frequenti -	24	2.34	24.77	-0.12	-27.7	17.8	958.6
	28	-2.42	21.02	0.12	27.1	10.7	-553.3
SLE Frequenti +	24	2.42	24.80	-0.12	-27.1	18.0	992.0
	28	-2.34	21.05	0.12	27.7	10.9	-514.1
SLE Quasi Permanenti -	24	2.37	24.77	-0.12	-27.1	17.8	971.3
	28	-2.37	21.05	0.12	27.1	10.8	-534.3
SLE Quasi Permanenti +	24	2.37	24.77	-0.12	-27.1	17.8	971.3
	28	-2.37	21.05	0.12	27.1	10.8	-534.3
SLD -	24	1.05	24.45	-0.22	-56.5	5.5	970.8
	28	-3.45	20.67	0.02	2.7	0.2	-776.8
SLD +	24	3.45	25.15	-0.02	-2.7	29.9	1137.4
	28	-1.05	21.38	0.22	56.5	21.0	-443.9
SLU Statiche -	30	-15.59	79.90	-0.25	-23.1	25.4	3358.8
	34	15.09	80.91	0.24	21.5	40.0	-3507.8
SLU Statiche +	30	-15.09	79.97	-0.24	-21.5	27.1	3374.2
	34	15.59	80.98	0.25	23.1	42.3	-3497.3
SLV -	30	-12.60	54.56	-0.43	-131.8	-29.2	2196.0
	34	8.09	55.19	-0.12	-105.4	-3.2	-2470.9
SLV +	30	-8.09	54.81	0.12	105.4	61.0	2418.8
	34	12.60	55.44	0.43	131.8	56.9	-2317.9
SLE Rare -	30	-11.07	54.65	-0.18	-15.8	17.5	2291.2
	34	10.74	55.34	0.17	14.2	28.6	-2392.5
SLE Rare +	30	-10.74	54.66	-0.17	-14.2	18.6	2297.5
	34	11.07	55.35	0.18	15.8	29.6	-2388.5
SLE Frequenti -	30	-10.48	54.66	-0.16	-12.6	15.5	2302.7
	34	10.35	55.32	0.15	11.9	26.7	-2395.7
SLE Frequenti +	30	-10.35	54.68	-0.15	-11.9	15.9	2305.8
	34	10.48	55.34	0.16	12.6	27.2	-2393.2
SLE Quasi Permanenti -	30	-10.35	54.67	-0.15	-11.9	15.5	2305.3
	34	10.35	55.33	0.15	11.9	26.7	-2394.8
SLE Quasi Permanenti +	30	-10.35	54.67	-0.15	-11.9	15.5	2305.3
	34	10.35	55.33	0.15	11.9	26.7	-2394.8
SLD -	30	-11.30	54.63	-0.27	-63.7	-3.3	2260.1
	34	9.39	55.26	0.04	-37.3	14.1	-2426.9
SLD +	30	-9.39	54.74	-0.04	37.3	35.0	2354.8
	34	11.30	55.37	0.27	63.7	39.6	-2361.9
SLU Statiche -	25	-0.99	34.92	-0.25	-41.3	37.6	1274.8

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	30	0.86	30.14	0.24	38.8	18.5	-876.5
SLU Statiche +	25	-0.86	35.07	-0.24	-38.8	39.9	1427.4
	30	0.99	30.29	0.25	41.3	19.6	-694.7
SLV -	25	-4.08	23.49	-0.42	-88.0	-2.2	776.2
	30	-2.63	20.18	-0.08	-31.1	-17.2	-1145.2
SLV +	25	2.63	25.64	0.08	31.1	55.0	1281.7
	30	4.08	22.33	0.42	88.0	44.5	-135.7
SLE Rare -	25	-0.74	24.61	-0.18	-29.8	27.5	944.0
	30	0.66	21.20	0.18	27.5	13.7	-601.2
SLE Rare +	25	-0.66	24.63	-0.18	-27.5	28.1	1003.9
	30	0.74	21.22	0.18	29.8	14.1	-545.4
SLE Frequenti -	25	-0.64	24.54	-0.18	-26.1	26.6	936.6
	30	0.61	21.25	0.17	25.3	14.0	-584.8
SLE Frequenti +	25	-0.61	24.57	-0.17	-25.3	27.1	969.1
	30	0.64	21.28	0.18	26.1	14.3	-546.6
SLE Quasi Permanenti -	25	-0.61	24.54	-0.17	-25.3	26.7	949.1
	30	0.61	21.28	0.17	25.3	14.1	-566.2
SLE Quasi Permanenti +	25	-0.61	24.54	-0.17	-25.3	26.7	949.1
	30	0.61	21.28	0.17	25.3	14.1	-566.2
SLD -	25	-2.15	24.11	-0.28	-53.8	14.2	921.5
	30	-0.70	20.80	0.06	3.1	0.5	-855.1
SLD +	25	0.70	25.02	-0.06	-3.1	38.6	1136.5
	30	2.15	21.72	0.28	53.8	26.8	-425.9
SLU Statiche -	32	-13.46	79.77	-0.33	-154.6	48.0	3397.3
	35	13.02	81.03	0.31	145.6	36.0	-3581.5
SLU Statiche +	32	-13.02	79.84	-0.31	-145.6	51.9	3410.3
	35	13.46	81.11	0.33	154.6	38.6	-3569.2
SLV -	32	-12.42	54.39	-0.43	-206.8	-6.0	2170.8
	35	5.37	55.21	-0.02	-7.5	-1.9	-2555.1
SLV +	32	-5.37	54.79	0.02	7.5	69.5	2493.0
	35	12.42	55.61	0.43	206.8	50.8	-2334.3
SLE Rare -	32	-9.52	54.55	-0.23	-107.7	34.5	2318.4
	35	9.22	55.44	0.22	105.2	26.1	-2444.6
SLE Rare +	32	-9.22	54.56	-0.22	-105.2	35.9	2323.4
	35	9.52	55.45	0.23	107.7	26.8	-2441.1
SLE Frequenti -	32	-9.00	54.57	-0.21	-100.2	31.3	2328.3
	35	8.88	55.42	0.20	98.0	24.3	-2446.9
SLE Frequenti +	32	-8.88	54.58	-0.20	-98.0	32.2	2330.9
	35	9.00	55.43	0.21	100.2	24.8	-2444.1
SLE Quasi Permanenti -	32	-8.88	54.58	-0.20	-98.0	31.3	2330.5
	35	8.88	55.42	0.20	98.0	24.3	-2445.5
SLE Quasi Permanenti +	32	-8.88	54.58	-0.20	-98.0	31.3	2330.5
	35	8.88	55.42	0.20	98.0	24.3	-2445.5
SLD -	32	-10.40	54.51	-0.30	-145.2	15.7	2263.3
	35	7.39	55.33	0.11	54.0	13.2	-2491.6
SLD +	32	-7.39	54.67	-0.11	-54.0	47.8	2400.5
	35	10.40	55.49	0.30	145.2	35.6	-2397.7
SLU Statiche -	27	-3.59	34.57	-0.10	-55.4	32.6	1330.8
	32	3.55	30.52	0.10	48.3	-9.5	-1004.3
SLU Statiche +	27	-3.55	34.69	-0.10	-48.3	33.6	1476.2
	32	3.59	30.65	0.10	55.4	-8.4	-840.0
SLV -	27	-8.30	23.46	-0.25	-61.9	5.0	633.6
	32	-3.09	20.61	-0.10	14.3	-31.1	-1348.8
SLV +	27	3.09	25.22	0.10	-14.3	40.5	1489.6

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	32	8.30	22.37	0.25	61.9	20.9	-104.1
SLE Rare -	27	-2.66	24.35	-0.08	-39.7	23.5	981.0
	32	2.61	21.44	0.07	35.3	-6.4	-694.4
SLE Rare +	27	-2.61	24.38	-0.07	-35.3	23.9	1040.4
	32	2.66	21.47	0.08	39.7	-5.9	-641.8
SLE Frequenti -	27	-2.56	24.30	-0.08	-33.7	22.8	971.1
	32	2.54	21.50	0.08	32.1	-5.0	-673.8
SLE Frequenti +	27	-2.54	24.32	-0.08	-32.1	23.1	1002.1
	32	2.56	21.53	0.08	33.7	-4.7	-639.2
SLE Quasi Permanenti -	27	-2.54	24.30	-0.08	-32.2	22.9	982.3
	32	2.54	21.52	0.08	32.2	-4.7	-656.2
SLE Quasi Permanenti +	27	-2.54	24.30	-0.08	-32.2	22.9	982.3
	32	2.54	21.52	0.08	32.2	-4.7	-656.2
SLD -	27	-5.03	23.96	-0.15	-48.2	15.2	879.2
	32	0.19	21.11	-0.00	28.0	-16.1	-991.5
SLD +	27	-0.19	24.71	0.00	-28.0	30.3	1243.9
	32	5.03	21.86	0.15	48.2	6.0	-461.4
SLU Statiche -	32	0.46	10.03	0.17	180.7	5.9	168.1
	33	-0.58	11.00	-0.18	-195.6	-45.5	-288.7
SLU Statiche +	32	0.58	10.08	0.18	195.6	7.8	188.9
	33	-0.46	11.05	-0.17	-180.7	-44.3	-278.2
SLV -	32	-0.14	7.23	-0.06	30.4	-20.0	79.5
	33	-1.07	7.89	-0.30	-219.0	-56.9	-345.7
SLV +	32	1.07	8.32	0.30	219.0	28.6	229.5
	33	0.14	8.98	0.06	-30.4	-3.0	-105.6
SLE Rare -	32	0.40	7.76	0.12	132.9	5.1	145.6
	33	-0.41	8.45	-0.12	-135.3	-32.0	-222.2
SLE Rare +	32	0.41	7.76	0.12	135.3	5.3	148.2
	33	-0.40	8.45	-0.12	-132.9	-31.1	-221.0
SLE Frequenti -	32	0.44	7.76	0.12	124.3	4.4	147.7
	33	-0.46	8.44	-0.12	-127.4	-30.2	-224.4
SLE Frequenti +	32	0.46	7.77	0.12	127.4	4.8	151.9
	33	-0.44	8.45	-0.12	-124.3	-29.8	-222.3
SLE Quasi Permanenti -	32	0.46	7.77	0.12	124.3	4.5	151.0
	33	-0.46	8.44	-0.12	-124.3	-29.8	-224.0
SLE Quasi Permanenti +	32	0.46	7.77	0.12	124.3	4.5	151.0
	33	-0.46	8.44	-0.12	-124.3	-29.8	-224.0
SLD -	32	0.21	7.54	0.04	84.5	-6.1	122.7
	33	-0.72	8.20	-0.19	-164.9	-41.4	-276.7
SLD +	32	0.72	8.01	0.19	164.9	14.7	186.3
	33	-0.21	8.67	-0.04	-84.5	-18.5	-174.6
SLU Statiche -	30	-6.86	10.70	0.65	87.7	-54.9	146.6
	32	6.37	10.35	-0.69	-91.5	-94.1	-129.8
SLU Statiche +	30	-6.37	10.72	0.69	91.5	-52.4	164.9
	32	6.86	10.37	-0.65	-87.7	-89.0	-106.2
SLV -	30	-5.98	8.06	0.18	-63.2	-70.2	116.6
	32	2.56	7.85	-0.73	-181.7	-89.2	-169.5
SLV +	30	-2.56	8.36	0.73	181.7	-3.2	165.6
	32	5.98	8.15	-0.18	63.2	-34.3	-66.8
SLE Rare -	30	-4.76	8.22	0.48	62.3	-38.8	131.4
	32	4.61	7.98	-0.49	-64.3	-66.2	-107.0
SLE Rare +	30	-4.61	8.23	0.49	64.3	-38.1	132.8
	32	4.76	7.99	-0.48	-62.3	-64.9	-105.0
SLE Frequenti -	30	-4.36	8.21	0.46	57.3	-37.4	138.2

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	32	4.25	7.99	-0.46	-58.5	-62.9	-118.9
SLE Frequenti +	30	-4.25	8.22	0.46	58.5	-36.9	142.0
	32	4.36	8.00	-0.46	-57.3	-61.8	-114.0
SLE Quasi Permanenti -	30	-4.25	8.21	0.46	57.3	-37.0	142.0
	32	4.25	8.00	-0.46	-57.3	-61.9	-118.9
SLE Quasi Permanenti +	30	-4.25	8.21	0.46	57.3	-37.0	142.0
	32	4.25	8.00	-0.46	-57.3	-61.9	-118.9
SLD -	30	-5.00	8.15	0.34	7.1	-51.0	130.7
	32	3.55	7.94	-0.57	-111.4	-73.4	-140.0
SLD +	30	-3.55	8.28	0.57	111.4	-22.4	151.5
	32	5.00	8.06	-0.34	-7.1	-50.1	-96.3
SLU Statiche -	28	-11.01	10.34	0.59	34.9	-54.2	406.5
	30	10.21	10.73	-0.63	-35.9	-81.8	-450.2
SLU Statiche +	28	-10.21	10.35	0.63	35.9	-51.5	408.3
	30	11.01	10.74	-0.59	-34.9	-77.1	-448.8
SLV -	28	-9.96	7.73	0.15	-126.2	-70.8	263.5
	30	3.62	8.01	-0.67	-172.0	-79.1	-432.3
SLV +	28	-3.62	8.20	0.67	172.0	-1.5	364.9
	30	9.96	8.48	-0.15	126.2	-26.7	-256.9
SLE Rare -	28	-7.61	7.96	0.43	23.9	-38.2	311.6
	30	7.36	8.25	-0.44	-25.3	-57.2	-344.4
SLE Rare +	28	-7.36	7.96	0.44	25.3	-37.6	313.2
	30	7.61	8.25	-0.43	-23.9	-56.0	-342.7
SLE Frequenti -	28	-6.92	7.96	0.41	21.9	-36.9	315.7
	30	6.76	8.25	-0.42	-22.4	-53.7	-346.9
SLE Frequenti +	28	-6.76	7.96	0.42	22.4	-36.3	316.3
	30	6.92	8.25	-0.41	-21.9	-52.7	-346.4
SLE Quasi Permanenti -	28	-6.76	7.96	0.41	21.9	-36.4	316.3
	30	6.76	8.25	-0.41	-21.9	-52.7	-346.9
SLE Quasi Permanenti +	28	-6.76	7.96	0.41	21.9	-36.4	316.3
	30	6.76	8.25	-0.41	-21.9	-52.7	-346.9
SLD -	28	-8.14	7.87	0.30	-40.7	-50.9	292.7
	30	5.45	8.15	-0.52	-86.4	-64.0	-381.9
SLD +	28	-5.45	8.06	0.52	86.4	-21.4	335.7
	30	8.14	8.34	-0.30	40.7	-41.8	-307.3
SLU Statiche -	23	-13.48	10.53	0.19	74.7	-10.5	442.1
	28	12.54	10.54	-0.20	-77.1	-33.3	-442.9
SLU Statiche +	23	-12.54	10.54	0.20	77.1	-10.1	442.9
	28	13.48	10.54	-0.19	-74.7	-31.4	-442.3
SLV -	23	-12.21	7.96	-0.15	-103.2	-45.3	274.1
	28	4.43	7.97	-0.42	-207.1	-48.0	-415.1
SLV +	23	-4.43	8.24	0.42	207.1	29.6	406.6
	28	12.21	8.25	0.15	103.2	5.4	-266.7
SLE Rare -	23	-9.31	8.10	0.14	53.8	-7.9	338.2
	28	8.99	8.11	-0.14	-54.7	-23.3	-340.3
SLE Rare +	23	-8.99	8.10	0.14	54.7	-7.7	339.5
	28	9.31	8.11	-0.14	-53.8	-22.6	-338.8
SLE Frequenti -	23	-8.47	8.10	0.13	51.6	-8.1	341.6
	28	8.27	8.11	-0.14	-52.2	-21.4	-342.9
SLE Frequenti +	23	-8.27	8.10	0.14	52.2	-8.0	342.1
	28	8.47	8.11	-0.13	-51.6	-21.0	-342.4
SLE Quasi Permanenti -	23	-8.27	8.10	0.13	51.6	-8.0	342.1
	28	8.27	8.11	-0.13	-51.6	-21.0	-342.9
SLE Quasi Permanenti +	23	-8.27	8.10	0.13	51.6	-8.0	342.1

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	28	8.27	8.11	-0.13	-51.6	-21.0	-342.9
SLD -	23	-9.97	8.04	0.01	-14.2	-23.8	312.3
	28	6.67	8.05	-0.26	-118.1	-32.7	-372.3
SLD +	23	-6.67	8.16	0.26	118.1	8.1	368.4
	28	9.97	8.17	-0.01	14.2	-9.9	-309.5
SLU Statiche -	16	-14.07	10.73	-0.34	139.0	49.2	468.2
	23	13.13	10.34	0.32	-144.1	20.2	-426.8
SLU Statiche +	16	-13.13	10.74	-0.32	144.1	52.2	469.6
	23	14.07	10.34	0.34	-139.0	21.5	-425.9
SLV -	16	-12.45	8.09	-0.53	-56.9	-5.4	293.9
	23	5.04	7.81	-0.09	-253.3	-16.6	-389.8
SLV +	16	-5.04	8.40	0.09	253.3	71.8	423.4
	23	12.45	8.12	0.53	56.9	45.2	-267.6
SLE Rare -	16	-9.73	8.24	-0.24	100.9	35.3	357.2
	23	9.42	7.97	0.23	-101.7	14.7	-328.4
SLE Rare +	16	-9.42	8.25	-0.23	101.7	36.2	358.6
	23	9.73	7.97	0.24	-100.9	15.0	-327.0
SLE Frequenti -	16	-8.89	8.24	-0.23	98.0	33.2	360.1
	23	8.69	7.97	0.22	-99.0	14.7	-330.7
SLE Frequenti +	16	-8.69	8.24	-0.22	99.0	33.8	360.6
	23	8.89	7.97	0.23	-98.0	14.9	-330.2
SLE Quasi Permanenti -	16	-8.69	8.24	-0.22	98.0	33.2	360.6
	23	8.69	7.97	0.22	-98.0	14.8	-330.7
SLE Quasi Permanenti +	16	-8.69	8.24	-0.22	98.0	33.2	360.6
	23	8.69	7.97	0.22	-98.0	14.8	-330.7
SLD -	16	-10.31	8.18	-0.35	32.0	16.8	331.2
	23	7.17	7.90	0.09	-164.3	1.2	-354.6
SLD +	16	-7.17	8.31	-0.09	164.3	49.6	386.1
	23	10.31	8.03	0.35	-32.0	27.5	-302.8
SLU Statiche -	10	-10.78	10.61	-0.62	197.9	82.3	299.4
	16	10.04	10.45	0.59	-206.7	44.2	-285.4
SLU Statiche +	10	-10.04	10.62	-0.59	206.7	87.6	302.7
	16	10.78	10.46	0.62	-197.9	47.4	-283.1
SLV -	10	-9.27	7.81	-0.70	32.7	20.0	106.9
	16	4.18	7.66	0.11	-250.6	2.5	-296.0
SLV +	10	-4.18	8.55	-0.11	250.6	93.1	384.4
	16	9.27	8.40	0.70	-32.7	59.6	-162.8
SLE Rare -	10	-7.45	8.17	-0.44	146.0	60.0	242.5
	16	7.23	8.03	0.43	-147.0	32.7	-229.0
SLE Rare +	10	-7.23	8.18	-0.43	147.0	61.5	243.5
	16	7.45	8.04	0.44	-146.0	33.7	-227.4
SLE Frequenti -	10	-6.85	8.17	-0.42	141.7	56.6	244.8
	16	6.69	8.04	0.41	-143.4	31.4	-231.5
SLE Frequenti +	10	-6.69	8.17	-0.41	143.4	57.7	245.5
	16	6.85	8.04	0.42	-141.7	32.1	-230.9
SLE Quasi Permanenti -	10	-6.69	8.17	-0.41	141.7	56.6	245.4
	16	6.69	8.04	0.41	-141.7	31.5	-231.5
SLE Quasi Permanenti +	10	-6.69	8.17	-0.41	141.7	56.6	245.4
	16	6.69	8.04	0.41	-141.7	31.5	-231.5
SLD -	10	-7.80	8.02	-0.53	95.2	41.0	186.5
	16	5.65	7.87	0.28	-188.1	18.9	-257.7
SLD +	10	-5.65	8.34	-0.28	188.1	72.1	304.7
	16	7.80	8.19	0.53	-95.2	43.2	-201.1

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLU Statiche -	14	0.01	15.40	0.02	617.2	-19.5	788.0
	11	-0.18	11.11	-0.04	-646.8	13.6	-512.8
SLU Statiche +	14	0.18	15.49	0.04	646.8	-18.9	850.5
	11	-0.01	11.21	-0.02	-617.2	16.1	-464.3
SLV -	14	-2.49	9.69	-0.38	428.1	-50.8	446.9
	11	-2.75	6.69	-0.40	-492.5	-11.7	-449.4
SLV +	14	2.75	12.59	0.40	492.5	27.5	679.2
	11	2.49	9.59	0.38	-428.1	32.2	-213.6
SLE Rare -	14	0.04	11.18	0.00	443.8	-13.3	578.2
	11	-0.13	8.09	-0.02	-466.0	10.5	-357.1
SLE Rare +	14	0.13	11.19	0.02	466.0	-12.0	595.3
	11	-0.04	8.10	-0.00	-443.8	11.5	-338.9
SLE Frequenti -	14	0.00	11.13	-0.01	430.7	-10.4	579.8
	11	-0.04	8.13	0.01	-438.1	11.3	-360.0
SLE Frequenti +	14	0.04	11.15	-0.01	438.1	-10.0	592.9
	11	-0.00	8.15	0.01	-430.7	11.8	-349.7
SLE Quasi Permanenti -	14	0.01	11.13	-0.01	430.7	-10.0	585.4
	11	-0.01	8.15	0.01	-430.7	11.6	-355.8
SLE Quasi Permanenti +	14	0.01	11.13	-0.01	430.7	-10.0	585.4
	11	-0.01	8.15	0.01	-430.7	11.6	-355.8
SLD -	14	-0.98	10.52	-0.16	446.6	-28.2	513.5
	11	-1.24	7.52	-0.17	-474.0	1.0	-381.7
SLD +	14	1.24	11.76	0.17	474.0	4.9	612.5
	11	0.98	8.76	0.16	-446.6	19.6	-281.4
SLU Statiche -	19	-3.15	13.95	-0.21	324.4	3.0	804.8
	14	2.77	12.71	0.20	-333.4	27.3	-783.4
SLU Statiche +	19	-2.77	14.00	-0.20	333.4	3.7	883.0
	14	3.15	12.75	0.21	-324.4	29.5	-711.8
SLV -	19	-5.00	8.26	-0.42	210.6	-25.5	422.9
	14	-1.12	7.43	-0.14	-262.2	-2.5	-642.3
SLV +	19	1.12	11.92	0.14	262.2	32.0	719.1
	14	5.00	11.09	0.42	-210.6	40.2	-370.6
SLE Rare -	19	-2.17	10.11	-0.15	234.2	2.6	589.2
	14	2.04	9.23	0.15	-242.2	19.9	-543.4
SLE Rare +	19	-2.04	10.12	-0.15	242.2	3.3	612.8
	14	2.17	9.24	0.15	-234.2	20.5	-522.3
SLE Frequenti -	19	-2.13	10.10	-0.15	225.7	4.0	594.0
	14	2.05	9.24	0.15	-228.4	19.1	-542.6
SLE Frequenti +	19	-2.05	10.11	-0.15	228.4	4.2	610.4
	14	2.13	9.25	0.15	-225.7	19.6	-527.6
SLE Quasi Permanenti -	19	-2.09	10.11	-0.15	225.7	4.2	601.6
	14	2.09	9.24	0.15	-225.7	19.2	-534.6
SLE Quasi Permanenti +	19	-2.09	10.11	-0.15	225.7	4.2	601.6
	14	2.09	9.24	0.15	-225.7	19.2	-534.6
SLD -	19	-3.24	9.31	-0.26	225.4	-8.9	507.9
	14	0.64	8.48	0.02	-247.4	9.7	-564.4
SLD +	19	-0.64	10.87	-0.02	247.4	15.5	634.2
	14	3.24	10.04	0.26	-225.4	28.0	-448.6
SLU Statiche -	24	-3.97	13.52	-0.03	125.8	-7.9	667.5
	19	3.55	13.17	0.03	-130.9	11.7	-715.6
SLU Statiche +	24	-3.55	13.53	-0.03	130.9	-7.2	743.0
	19	3.97	13.18	0.03	-125.8	12.4	-640.9
SLV -	24	-5.67	8.02	-0.37	75.1	-26.3	323.5
	19	-0.72	7.79	-0.35	-109.8	-29.9	-580.6

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLV +	24	0.72	11.56	0.35	109.8	16.5	620.1
	19	5.67	11.34	0.37	-75.1	43.8	-327.7
SLE Rare -	24	-2.73	9.79	-0.02	89.8	-5.6	486.7
	19	2.59	9.55	0.01	-94.2	7.7	-493.7
SLE Rare +	24	-2.59	9.80	-0.01	94.2	-5.4	512.2
	19	2.73	9.56	0.02	-89.8	8.2	-468.2
SLE Frequenti -	24	-2.69	9.79	-0.01	86.5	-4.9	497.3
	19	2.60	9.56	0.01	-88.0	6.5	-495.4
SLE Frequenti +	24	-2.60	9.79	-0.01	88.0	-4.7	513.3
	19	2.69	9.56	0.01	-86.5	6.8	-479.6
SLE Quasi Permanenti -	24	-2.64	9.79	-0.01	86.5	-4.7	505.9
	19	2.64	9.56	0.01	-86.5	6.5	-488.0
SLE Quasi Permanenti +	24	-2.64	9.79	-0.01	86.5	-4.7	505.9
	19	2.64	9.56	0.01	-86.5	6.5	-488.0
SLD -	24	-3.83	9.03	-0.17	85.0	-14.0	408.6
	19	1.12	8.80	-0.14	-99.8	-8.7	-508.0
SLD +	24	-1.12	10.55	0.14	99.8	4.2	535.0
	19	3.83	10.32	0.17	-85.0	22.6	-400.2
SLU Statiche -	25	-1.69	12.97	0.12	49.7	-21.8	438.7
	24	1.42	13.69	-0.12	-56.5	2.5	-561.2
SLU Statiche +	25	-1.42	13.01	0.12	56.5	-20.4	501.5
	24	1.69	13.74	-0.12	-49.7	2.7	-491.7
SLV -	25	-4.04	7.82	-0.46	21.1	-49.5	193.6
	24	-2.06	8.33	-0.65	-59.5	-51.8	-482.5
SLV +	25	2.06	11.02	0.65	59.5	19.5	425.6
	24	4.04	11.53	0.46	-21.1	51.5	-215.2
SLE Rare -	25	-1.14	9.40	0.09	36.4	-15.7	317.8
	24	1.03	9.94	-0.10	-40.6	0.5	-385.3
SLE Rare +	25	-1.03	9.42	0.10	40.6	-15.3	343.4
	24	1.14	9.95	-0.09	-36.4	1.3	-358.0
SLE Frequenti -	25	-1.16	9.40	0.11	34.5	-15.7	335.2
	24	1.10	9.94	-0.11	-36.0	-1.1	-390.9
SLE Frequenti +	25	-1.10	9.41	0.11	36.0	-15.4	348.6
	24	1.16	9.95	-0.11	-34.5	-0.8	-376.1
SLE Quasi Permanenti -	25	-1.14	9.41	0.11	34.6	-15.5	343.7
	24	1.14	9.94	-0.11	-34.6	-1.1	-385.2
SLE Quasi Permanenti +	25	-1.14	9.41	0.11	34.6	-15.5	343.7
	24	1.14	9.94	-0.11	-34.6	-1.1	-385.2
SLD -	25	-2.28	8.74	-0.14	32.1	-29.7	260.2
	24	-0.30	9.25	-0.33	-48.4	-22.1	-405.8
SLD +	25	0.30	10.10	0.33	48.4	-0.3	359.0
	24	2.28	10.61	0.14	-32.1	21.8	-291.9
SLU Statiche -	27	1.71	13.07	-0.28	15.5	11.5	9.5
	25	-1.78	13.58	0.27	-27.8	29.6	-92.2
SLU Statiche +	27	1.78	13.12	-0.27	27.8	11.8	48.7
	25	-1.71	13.63	0.28	-15.5	31.8	-45.4
SLV -	27	-1.21	7.94	-0.85	-45.1	-44.9	-162.7
	25	-3.70	8.30	-0.53	-84.2	-37.3	-151.9
SLV +	27	3.70	11.05	0.53	84.2	58.1	172.5
	25	1.21	11.42	0.85	45.1	74.6	85.7
SLE Rare -	27	1.23	9.48	-0.19	13.5	7.3	2.0
	25	-1.31	9.85	0.18	-19.1	20.5	-58.2
SLE Rare +	27	1.31	9.50	-0.18	19.1	8.2	27.3
	25	-1.23	9.88	0.19	-13.5	21.8	-29.4

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLE Frequenti -	27	1.14	9.46	-0.16	11.3	5.7	30.2
	25	-1.17	9.88	0.15	-13.9	17.6	-72.3
SLE Frequenti +	27	1.17	9.47	-0.15	13.9	6.0	38.9
	25	-1.14	9.89	0.16	-11.3	18.3	-62.0
SLE Quasi Permanenti -	27	1.14	9.46	-0.15	12.0	5.7	38.6
	25	-1.14	9.89	0.15	-12.0	17.6	-71.6
SLE Quasi Permanenti +	27	1.14	9.46	-0.15	12.0	5.7	38.6
	25	-1.14	9.89	0.15	-12.0	17.6	-71.6
SLD -	27	0.20	8.83	-0.46	-8.0	-15.3	-66.3
	25	-2.29	9.20	-0.13	-47.1	-5.2	-83.8
SLD +	27	2.29	10.16	0.13	47.1	28.5	76.0
	25	-0.20	10.52	0.46	8.0	42.4	17.5
SLU Statiche -	29	0.31	16.32	-0.73	-100.4	45.4	410.5
	27	-0.38	10.30	0.70	69.4	62.5	34.2
SLU Statiche +	29	0.38	16.40	-0.70	-69.4	48.1	435.3
	27	-0.31	10.39	0.73	100.4	65.5	61.9
SLV -	29	-0.58	10.48	-1.10	-118.5	-25.7	5.8
	27	-1.18	6.20	-0.16	-20.5	-0.2	-55.5
SLV +	29	1.18	13.16	0.16	20.5	86.0	569.5
	27	0.58	8.87	1.10	118.5	84.5	144.0
SLE Rare -	29	0.24	11.82	-0.52	-63.5	32.4	296.3
	27	-0.29	7.44	0.50	54.6	44.6	28.3
SLE Rare +	29	0.29	11.91	-0.50	-54.6	33.7	306.0
	27	-0.24	7.53	0.52	63.5	46.2	49.4
SLE Frequenti -	29	0.24	11.70	-0.47	-64.4	29.5	294.5
	27	-0.26	7.62	0.46	57.9	41.3	16.2
SLE Frequenti +	29	0.26	11.73	-0.46	-57.9	30.2	299.7
	27	-0.24	7.65	0.47	64.4	42.1	23.2
SLE Quasi Permanenti -	29	0.24	11.70	-0.46	-60.8	29.5	296.8
	27	-0.24	7.65	0.46	60.8	41.3	16.2
SLE Quasi Permanenti +	29	0.24	11.70	-0.46	-60.8	29.5	296.8
	27	-0.24	7.65	0.46	60.8	41.3	16.2
SLD -	29	-0.08	11.25	-0.73	-78.6	6.4	168.2
	27	-0.67	6.96	0.20	19.4	24.1	2.0
SLD +	29	0.67	12.39	-0.20	-19.4	53.9	407.2
	27	0.08	8.10	0.73	78.6	60.1	86.6
SLU Statiche -	35	-25.70	31.68	0.32	75.6	-27.6	1301.7
	36	24.41	33.06	-0.35	-82.0	-72.3	-1507.1
SLU Statiche +	35	-24.41	31.73	0.35	82.0	-25.8	1314.5
	36	25.70	33.11	-0.32	-75.6	-66.2	-1504.5
SLV -	35	-19.52	21.96	0.03	-36.0	-46.0	874.6
	36	14.87	22.86	-0.41	-138.6	-85.9	-1184.2
SLV +	35	-14.87	23.21	0.41	138.6	11.5	1001.7
	36	19.52	24.11	-0.03	36.0	-6.9	-950.9
SLE Rare -	35	-18.26	22.54	0.24	55.2	-19.2	927.9
	36	17.96	23.51	-0.24	-56.6	-50.2	-1069.7
SLE Rare +	35	-17.96	22.56	0.24	56.6	-18.5	930.6
	36	18.26	23.53	-0.24	-55.2	-49.5	-1068.5
SLE Frequenti -	35	-17.48	22.58	0.22	50.9	-17.3	936.4
	36	17.22	23.48	-0.22	-52.2	-47.5	-1066.6
SLE Frequenti +	35	-17.22	22.60	0.22	52.2	-16.9	939.2
	36	17.48	23.49	-0.22	-50.9	-46.2	-1065.9
SLE Quasi Permanenti -	35	-17.23	22.60	0.22	50.9	-16.9	939.2
	36	17.23	23.48	-0.22	-50.9	-46.2	-1065.9

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLE Quasi Permanenti +	35	-17.23	22.60	0.22	50.9	-16.9	939.2
	36	17.23	23.48	-0.22	-50.9	-46.2	-1065.9
SLD -	35	-18.18	22.32	0.14	14.1	-29.4	911.2
	36	16.21	23.22	-0.30	-88.5	-63.3	-1117.2
SLD +	35	-16.21	22.85	0.30	88.5	-5.1	965.1
	36	18.18	23.75	-0.14	-14.1	-29.6	-1018.0
SLU Statiche -	34	-29.96	32.39	0.14	88.2	5.8	1455.4
	35	28.09	32.39	-0.15	-92.3	-50.4	-1461.3
SLU Statiche +	34	-28.09	32.39	0.15	92.3	6.3	1461.8
	35	29.96	32.40	-0.14	-88.2	-46.8	-1455.6
SLV -	34	-29.75	22.55	-0.12	-43.8	-20.5	954.2
	35	8.68	22.50	-0.29	-165.2	-65.6	-1101.9
SLV +	34	-8.68	23.57	0.29	165.2	32.2	1135.6
	35	29.75	23.52	0.12	43.8	4.8	-974.2
SLE Rare -	34	-21.04	23.04	0.10	63.7	4.9	1037.0
	35	20.49	23.02	-0.10	-65.2	-34.9	-1036.5
SLE Rare +	34	-20.49	23.05	0.10	65.2	5.4	1039.9
	35	21.04	23.03	-0.10	-63.7	-33.3	-1035.6
SLE Frequenti -	34	-19.54	23.06	0.08	60.1	6.0	1044.7
	35	19.15	23.00	-0.09	-61.0	-30.7	-1037.2
SLE Frequenti +	34	-19.15	23.07	0.09	61.0	6.3	1046.3
	35	19.54	23.01	-0.08	-60.1	-29.9	-1036.0
SLE Quasi Permanenti -	34	-19.15	23.07	0.08	60.1	6.3	1046.3
	35	19.15	23.00	-0.08	-60.1	-29.9	-1036.9
SLE Quasi Permanenti +	34	-19.15	23.07	0.08	60.1	6.3	1046.3
	35	19.15	23.00	-0.08	-60.1	-29.9	-1036.9
SLD -	34	-23.69	22.84	-0.00	16.2	-5.3	1006.4
	35	14.74	22.80	-0.17	-105.2	-45.3	-1065.2
SLD +	34	-14.74	23.27	0.17	105.2	17.0	1083.4
	35	23.69	23.23	0.00	-16.2	-15.5	-1010.9
SLU Statiche -	31	-22.79	32.52	0.01	56.6	5.3	1504.8
	34	21.29	32.26	-0.01	-58.6	-8.6	-1471.0
SLU Statiche +	31	-21.29	32.53	0.01	58.6	6.2	1507.3
	34	22.79	32.27	-0.01	-56.6	-7.8	-1465.3
SLV -	31	-27.46	22.70	-0.27	-71.0	-32.6	988.0
	34	0.59	22.49	-0.26	-148.9	-45.2	-1106.8
SLV +	31	-0.59	23.58	0.26	148.9	42.5	1166.2
	34	27.46	23.37	0.27	71.0	38.6	-986.2
SLE Rare -	31	-15.89	23.14	-0.00	40.7	4.7	1071.9
	34	15.23	22.93	-0.00	-41.8	-5.4	-1043.7
SLE Rare +	31	-15.23	23.14	0.00	41.8	5.0	1074.2
	34	15.89	22.93	0.00	-40.7	-4.4	-1042.7
SLE Frequenti -	31	-14.16	23.15	-0.01	38.5	5.0	1077.6
	34	13.82	22.92	0.01	-39.0	-3.1	-1046.2
SLE Frequenti +	31	-13.82	23.15	-0.01	39.0	5.2	1078.5
	34	14.16	22.92	0.01	-38.5	-2.7	-1045.1
SLE Quasi Permanenti -	31	-13.82	23.15	-0.01	38.5	5.1	1078.5
	34	13.82	22.92	0.01	-38.5	-2.7	-1046.1
SLE Quasi Permanenti +	31	-13.82	23.15	-0.01	38.5	5.1	1078.5
	34	13.82	22.92	0.01	-38.5	-2.7	-1046.1
SLD -	31	-19.73	22.96	-0.12	-7.9	-11.1	1039.3
	34	8.32	22.74	-0.11	-85.8	-21.1	-1072.2
SLD +	31	-8.32	23.33	0.11	85.8	20.9	1114.9
	34	19.73	23.11	0.12	7.9	14.5	-1020.8

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLU Statiche -	26	-19.06	32.28	0.07	54.5	-12.2	1476.6
	31	17.90	32.50	-0.08	-56.7	-9.7	-1511.7
SLU Statiche +	26	-17.90	32.28	0.08	56.7	-12.1	1479.8
	31	19.06	32.50	-0.07	-54.5	-9.3	-1508.1
SLV -	26	-26.52	22.58	-0.18	-75.9	-47.2	982.0
	31	-3.75	22.72	-0.28	-152.3	-38.5	-1152.9
SLV +	26	3.75	23.35	0.28	152.3	29.8	1132.0
	31	26.52	23.49	0.18	75.9	28.1	-1001.8
SLE Rare -	26	-13.16	22.96	0.05	39.6	-8.6	1052.3
	31	12.46	23.11	-0.05	-40.3	-6.2	-1074.6
SLE Rare +	26	-12.46	22.96	0.05	40.3	-8.5	1054.1
	31	13.16	23.11	-0.05	-39.6	-5.7	-1073.2
SLE Frequenti -	26	-11.40	22.97	0.05	38.0	-8.9	1057.1
	31	11.10	23.10	-0.05	-38.4	-5.0	-1077.9
SLE Frequenti +	26	-11.10	22.97	0.05	38.4	-8.8	1057.9
	31	11.40	23.11	-0.05	-38.0	-4.8	-1077.0
SLE Quasi Permanenti -	26	-11.10	22.97	0.05	38.0	-8.9	1057.9
	31	11.10	23.10	-0.05	-38.0	-4.8	-1077.9
SLE Quasi Permanenti +	26	-11.10	22.97	0.05	38.0	-8.9	1057.9
	31	11.10	23.10	-0.05	-38.0	-4.8	-1077.9
SLD -	26	-17.80	22.80	-0.05	-10.5	-25.1	1025.2
	31	4.97	22.94	-0.15	-86.8	-19.4	-1109.5
SLD +	26	-4.97	23.13	0.15	86.8	7.7	1088.8
	31	17.80	23.27	0.05	10.5	8.9	-1045.2
SLU Statiche -	18	-27.20	32.07	0.13	52.1	-11.7	1426.6
	26	25.82	32.70	-0.13	-54.2	-26.8	-1521.8
SLU Statiche +	18	-25.82	32.08	0.13	54.2	-11.1	1432.4
	26	27.20	32.72	-0.13	-52.1	-26.0	-1519.8
SLV -	18	-30.86	22.39	-0.16	-79.7	-52.2	965.7
	26	2.99	22.84	-0.35	-153.9	-52.3	-1169.4
SLV +	18	-2.99	23.23	0.35	153.9	33.3	1077.8
	26	30.86	23.68	0.16	79.7	16.4	-1003.5
SLE Rare -	18	-18.81	22.81	0.09	38.2	-9.1	1016.9
	26	18.10	23.26	-0.10	-38.5	-18.6	-1084.0
SLE Rare +	18	-18.10	22.81	0.10	38.5	-8.5	1018.2
	26	18.81	23.26	-0.09	-38.2	-18.4	-1081.9
SLE Frequenti -	18	-16.99	22.80	0.10	37.1	-9.9	1020.7
	26	16.65	23.26	-0.10	-37.5	-18.0	-1087.8
SLE Frequenti +	18	-16.65	22.81	0.10	37.5	-9.6	1021.9
	26	16.99	23.27	-0.10	-37.1	-17.8	-1087.0
SLE Quasi Permanenti -	18	-16.65	22.81	0.10	37.1	-9.9	1021.9
	26	16.65	23.26	-0.10	-37.1	-17.8	-1087.8
SLE Quasi Permanenti +	18	-16.65	22.81	0.10	37.1	-9.9	1021.9
	26	16.65	23.26	-0.10	-37.1	-17.8	-1087.8
SLD -	18	-22.83	22.63	-0.01	-12.7	-27.6	997.9
	26	11.02	23.08	-0.20	-86.9	-32.6	-1121.7
SLD +	18	-11.02	22.99	0.20	86.9	8.7	1045.6
	26	22.83	23.44	0.01	12.7	-3.4	-1051.2
SLU Statiche -	9	-40.28	32.39	-0.13	64.5	45.7	1418.4
	18	38.32	32.39	0.13	-67.8	-9.4	-1424.6
SLU Statiche +	9	-38.32	32.39	-0.13	67.8	48.1	1424.3
	18	40.28	32.40	0.13	-64.5	-8.6	-1419.3
SLV -	9	-35.02	22.54	-0.35	-60.2	-17.6	958.6

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	18	16.92	22.58	-0.20	-153.1	-38.6	-1110.5
SLV +	9	-16.92	23.49	0.20	153.1	76.4	1068.3
	18	35.02	23.53	0.35	60.2	23.3	-928.7
SLE Rare -	9	-28.06	23.02	-0.09	47.8	31.4	1009.8
	18	27.38	23.04	0.08	-48.0	-7.3	-1015.2
SLE Rare +	9	-27.38	23.03	-0.08	48.0	32.6	1010.9
	18	28.06	23.05	0.09	-47.8	-6.8	-1012.5
SLE Frequenti -	9	-26.23	23.01	-0.08	46.6	28.9	1011.7
	18	25.80	23.06	0.07	-47.3	-7.9	-1021.1
SLE Frequenti +	9	-25.80	23.01	-0.07	47.3	29.5	1012.9
	18	26.23	23.06	0.08	-46.6	-7.7	-1019.7
SLE Quasi Permanenti -	9	-25.80	23.01	-0.07	46.6	28.9	1012.7
	18	25.80	23.06	0.07	-46.6	-7.9	-1021.1
SLE Quasi Permanenti +	9	-25.80	23.01	-0.07	46.6	28.9	1012.7
	18	25.80	23.06	0.07	-46.6	-7.9	-1021.1
SLD -	9	-29.80	22.81	-0.19	1.0	9.4	990.1
	18	22.13	22.85	-0.04	-91.9	-20.8	-1058.1
SLD +	9	-22.13	23.22	0.04	91.9	49.4	1036.8
	18	29.80	23.26	0.19	-1.0	5.5	-981.0
SLU Statiche -	102	9.80	8.85	-0.29	23.9	25.4	377.8
	103	-9.42	8.30	0.29	-24.8	46.5	-359.4
SLU Statiche +	102	13.97	10.08	-0.29	24.8	25.7	432.4
	103	-5.26	9.49	0.29	-23.9	47.3	-309.2
SLV -	102	5.59	4.80	-0.65	-20.9	-52.6	144.5
	103	-10.86	4.35	-0.23	-53.4	-5.7	-240.9
SLV +	102	13.59	6.02	0.23	53.4	89.8	334.5
	103	-2.85	5.57	0.65	20.9	71.5	-127.7
SLE Rare -	102	7.93	6.14	-0.21	17.2	18.7	265.1
	103	-6.60	5.74	0.21	-18.1	33.9	-248.5
SLE Rare +	102	9.74	6.93	-0.21	18.1	18.7	297.7
	103	-4.79	6.54	0.21	-17.2	34.6	-215.0
SLE Frequenti -	102	6.89	5.35	-0.21	15.8	18.7	231.9
	103	-5.05	5.00	0.21	-16.2	32.6	-202.6
SLE Frequenti +	102	7.78	5.67	-0.21	16.2	18.7	246.1
	103	-4.16	5.32	0.21	-15.8	32.9	-189.5
SLE Quasi Permanenti -	102	7.18	5.36	-0.21	15.8	18.7	233.0
	103	-4.45	5.02	0.21	-15.8	32.6	-191.2
SLE Quasi Permanenti +	102	7.18	5.36	-0.21	15.8	18.7	233.0
	103	-4.45	5.02	0.21	-15.8	32.6	-191.2
SLD -	102	7.89	5.15	-0.40	0.4	-11.7	199.1
	103	-8.55	4.70	0.02	-32.1	16.4	-208.4
SLD +	102	11.29	5.67	-0.02	32.1	48.9	279.9
	103	-5.15	5.22	0.40	-0.4	49.3	-160.2
SLU Statiche -	106	13.05	16.05	-0.11	5.1	10.0	694.9
	107	-9.60	14.86	0.10	-5.4	14.7	-645.6
SLU Statiche +	106	17.75	18.51	-0.10	5.4	10.8	801.0
	107	-4.91	17.26	0.11	-5.1	15.5	-547.4
SLV -	106	10.94	8.87	-0.49	-36.5	-60.2	332.7
	107	-8.25	7.99	-0.33	-42.7	-22.9	-356.0
SLV +	106	12.96	9.94	0.33	42.7	76.3	505.0
	107	-6.23	9.06	0.49	36.5	44.4	-263.5
SLE Rare -	106	10.54	10.96	-0.08	3.5	7.5	478.7
	107	-7.04	10.09	0.07	-3.8	10.8	-436.2
SLE Rare +	106	12.58	12.58	-0.07	3.8	7.9	546.4

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	107	-5.00	11.69	0.08	-3.5	10.9	-370.8
SLE Frequenti -	106	8.90	9.33	-0.08	2.9	8.2	410.0
	107	-5.20	8.58	0.08	-3.0	10.8	-341.9
SLE Frequenti +	106	9.91	9.99	-0.08	3.0	8.4	438.0
	107	-4.19	9.21	0.08	-2.9	11.0	-316.1
SLE Quasi Permanenti -	106	9.23	9.34	-0.08	2.9	8.3	410.9
	107	-4.52	8.59	0.08	-2.9	10.9	-318.3
SLE Quasi Permanenti +	106	9.23	9.34	-0.08	2.9	8.3	410.9
	107	-4.52	8.59	0.08	-2.9	10.9	-318.3
SLD -	106	11.52	9.18	-0.25	-13.8	-21.0	382.2
	107	-7.67	8.30	-0.10	-20.0	-3.6	-329.4
SLD +	106	12.38	9.63	0.10	20.0	37.1	455.5
	107	-6.81	8.75	0.25	13.8	25.1	-290.0
SLU Statiche -	116	-28.80	13.32	-0.07	-11.3	12.1	477.2
	114	30.43	12.62	0.06	11.2	2.1	-617.0
SLU Statiche +	116	-23.45	15.49	-0.06	-11.2	13.0	567.1
	114	35.79	14.47	0.07	11.3	2.9	-540.4
SLV -	116	-20.44	7.36	-0.47	-50.3	-61.4	217.2
	114	17.62	7.03	-0.38	-34.1	-31.0	-356.9
SLV +	116	-13.55	8.16	0.38	34.1	79.3	345.6
	114	24.51	7.84	0.47	50.3	34.4	-290.4
SLE Rare -	116	-18.98	9.10	-0.04	-8.2	8.8	328.5
	114	21.98	8.65	0.04	8.1	1.5	-424.0
SLE Rare +	116	-17.21	10.50	-0.04	-8.1	9.1	383.2
	114	23.75	9.88	0.04	8.2	1.8	-372.9
SLE Frequenti -	116	-19.89	7.69	-0.05	-8.0	9.2	273.7
	114	22.83	7.47	0.05	8.0	2.0	-348.6
SLE Frequenti +	116	-18.76	8.26	-0.05	-8.0	9.4	297.1
	114	23.96	7.96	0.05	8.0	2.2	-328.5
SLE Quasi Permanenti -	116	-19.35	7.70	-0.05	-8.0	9.3	275.2
	114	23.42	7.49	0.05	8.0	2.2	-330.2
SLE Quasi Permanenti +	116	-19.35	7.70	-0.05	-8.0	9.3	275.2
	114	23.42	7.49	0.05	8.0	2.2	-330.2
SLD -	116	-18.45	7.59	-0.22	-26.1	-21.0	254.2
	114	19.61	7.27	-0.14	-9.9	-12.2	-337.8
SLD +	116	-15.53	7.93	0.14	9.9	38.9	308.7
	114	22.52	7.61	0.22	26.1	15.7	-309.6
SLU Statiche -	130	-38.36	13.53	0.07	-9.4	-5.0	507.7
	125	40.40	12.43	-0.08	9.1	-13.5	-597.0
SLU Statiche +	130	-33.41	15.69	0.08	-9.1	-4.3	596.1
	125	45.34	14.27	-0.07	9.4	-12.7	-522.0
SLV -	130	-26.77	7.45	-0.33	-44.7	-68.5	230.7
	125	25.15	6.87	-0.44	-32.9	-39.1	-347.5
SLV +	130	-21.08	8.32	0.44	32.9	59.7	370.4
	125	30.84	7.74	0.33	44.7	19.8	-274.2
SLE Rare -	130	-25.77	9.24	0.05	-6.7	-4.1	349.5
	125	29.07	8.51	-0.06	6.3	-9.7	-408.9
SLE Rare +	130	-24.30	10.65	0.06	-6.3	-3.6	404.7
	125	30.53	9.73	-0.05	6.7	-9.6	-358.9
SLE Frequenti -	130	-26.43	7.83	0.06	-5.8	-4.6	294.1
	125	29.47	7.34	-0.06	5.7	-9.8	-334.8
SLE Frequenti +	130	-25.39	8.40	0.06	-5.7	-4.4	317.3
	125	30.51	7.82	-0.06	5.8	-9.6	-315.1
SLE Quasi Permanenti -	130	-25.88	7.84	0.06	-5.7	-4.6	295.3

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	125	29.96	7.35	-0.06	5.7	-9.7	-316.6
SLE Quasi Permanenti +	130	-25.88	7.84	0.06	-5.7	-4.6	295.3
	125	29.96	7.35	-0.06	5.7	-9.7	-316.6
SLD -	130	-25.14	7.70	-0.11	-22.4	-31.7	270.9
	125	26.79	7.12	-0.22	-10.6	-22.2	-326.4
SLD +	130	-22.72	8.07	0.22	10.6	22.9	330.2
	125	29.21	7.49	0.11	22.4	2.9	-295.2
SLU Statiche -	133	-18.38	7.97	0.29	-28.1	-24.2	334.8
	129	19.03	6.99	-0.30	26.7	-49.1	-324.7
SLU Statiche +	133	-15.00	9.08	0.30	-26.7	-23.5	380.4
	129	22.41	7.90	-0.29	28.1	-47.6	-287.6
SLV -	133	-16.19	4.03	-0.17	-50.9	-79.4	82.9
	129	7.12	3.41	-0.60	-15.6	-66.4	-255.4
SLV +	133	-4.67	5.72	0.60	15.6	42.9	340.5
	129	18.64	5.11	0.17	50.9	-1.6	-100.1
SLE Rare -	133	-11.89	5.55	0.22	-20.2	-18.1	235.6
	129	13.47	4.86	-0.22	19.1	-35.7	-225.8
SLE Rare +	133	-10.67	6.26	0.22	-19.1	-17.7	264.1
	129	14.69	5.47	-0.22	20.2	-35.1	-201.0
SLE Frequenti -	133	-12.37	4.83	0.22	-17.8	-18.6	206.6
	129	14.10	4.29	-0.22	17.4	-34.4	-190.9
SLE Frequenti +	133	-11.65	5.12	0.22	-17.4	-18.4	218.5
	129	14.82	4.53	-0.22	17.8	-34.1	-181.3
SLE Quasi Permanenti -	133	-12.06	4.84	0.22	-17.4	-18.6	207.1
	129	14.51	4.30	-0.22	17.4	-34.1	-182.4
SLE Quasi Permanenti +	133	-12.06	4.84	0.22	-17.4	-18.6	207.1
	129	14.51	4.30	-0.22	17.4	-34.1	-182.4
SLD -	133	-12.89	4.51	0.05	-31.8	-44.2	156.9
	129	10.43	3.90	-0.38	3.5	-47.8	-210.9
SLD +	133	-7.98	5.24	0.38	-3.5	7.8	266.6
	129	15.33	4.62	-0.05	31.8	-20.2	-144.7
SLU Statiche -	123	-39.83	13.17	-0.05	-9.7	9.9	461.4
	119	41.37	12.77	0.05	9.4	1.5	-636.3
SLU Statiche +	123	-34.38	15.34	-0.05	-9.4	10.4	551.3
	119	46.82	14.61	0.05	9.7	1.8	-560.1
SLV -	123	-28.10	7.30	-0.46	-49.6	-64.3	212.8
	119	25.25	7.18	-0.39	-36.5	-31.7	-366.2
SLV +	123	-21.18	8.01	0.39	36.5	77.9	328.2
	119	32.17	7.89	0.46	49.6	33.6	-308.4
SLE Rare -	123	-26.73	8.99	-0.03	-6.8	7.0	317.5
	119	29.87	8.76	0.03	6.7	1.0	-437.7
SLE Rare +	123	-25.10	10.40	-0.03	-6.7	7.1	372.1
	119	31.50	9.98	0.03	6.8	1.1	-386.9
SLE Frequenti -	123	-27.41	7.59	-0.03	-6.5	6.9	263.2
	119	30.34	7.57	0.03	6.5	1.1	-361.9
SLE Frequenti +	123	-26.27	8.17	-0.03	-6.5	7.0	286.6
	119	31.49	8.06	0.03	6.5	1.1	-341.8
SLE Quasi Permanenti -	123	-26.82	7.61	-0.03	-6.5	6.9	264.8
	119	30.89	7.58	0.03	6.5	1.1	-343.4
SLE Quasi Permanenti +	123	-26.82	7.61	-0.03	-6.5	6.9	264.8
	119	30.89	7.58	0.03	6.5	1.1	-343.4
SLD -	123	-26.11	7.50	-0.21	-24.9	-23.5	246.0
	119	27.25	7.39	-0.15	-11.8	-12.9	-349.6
SLD +	123	-23.17	7.81	0.15	11.8	37.1	294.9

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	119	30.18	7.69	0.21	24.9	14.9	-325.1
SLU Statiche -	128	-42.36	13.26	-0.01	-8.8	4.6	474.4
	124	44.02	12.68	0.01	8.6	-3.1	-627.2
SLU Statiche +	128	-37.03	15.43	-0.01	-8.6	5.0	563.8
	124	49.35	14.52	0.01	8.8	-2.9	-551.4
SLV -	128	-29.85	7.36	-0.43	-48.5	-68.2	221.2
	124	27.20	7.12	-0.42	-37.1	-35.1	-360.3
SLV +	128	-23.13	8.07	0.42	37.1	73.5	336.5
	124	33.92	7.83	0.43	48.5	30.2	-302.2
SLE Rare -	128	-28.53	9.06	-0.00	-6.3	3.0	326.5
	124	31.75	8.69	0.00	6.0	-2.4	-431.0
SLE Rare +	128	-26.98	10.46	-0.00	-6.0	3.3	381.2
	124	33.30	9.92	0.00	6.3	-2.3	-380.4
SLE Frequenti -	128	-29.16	7.65	-0.00	-5.7	2.5	271.9
	124	32.11	7.51	0.00	5.6	-2.4	-355.6
SLE Frequenti +	128	-28.04	8.23	-0.00	-5.6	2.7	295.3
	124	33.23	8.00	0.00	5.7	-2.4	-335.7
SLE Quasi Permanenti -	128	-28.56	7.67	-0.00	-5.6	2.5	273.4
	124	32.63	7.52	0.00	5.6	-2.4	-337.2
SLE Quasi Permanenti +	128	-28.56	7.67	-0.00	-5.6	2.5	273.4
	124	32.63	7.52	0.00	5.6	-2.4	-337.2
SLD -	128	-27.91	7.56	-0.18	-23.9	-27.5	254.4
	124	29.14	7.33	-0.18	-12.5	-16.3	-343.6
SLD +	128	-25.07	7.87	0.18	12.5	32.8	303.3
	124	31.99	7.63	0.18	23.9	11.4	-318.9
SLU Statiche -	132	-28.83	13.83	0.16	-16.7	-12.5	547.2
	127	31.54	12.15	-0.16	16.0	-27.4	-563.1
SLU Statiche +	132	-24.55	15.99	0.16	-16.0	-11.6	634.8
	127	35.82	13.97	-0.16	16.7	-26.4	-489.7
SLV -	132	-18.47	7.48	-0.25	-46.8	-70.5	231.8
	127	20.84	6.50	-0.49	-25.9	-48.4	-340.8
SLV +	132	-16.77	8.69	0.49	25.9	50.8	420.5
	127	22.54	7.71	0.25	46.8	10.0	-236.1
SLE Rare -	132	-19.14	9.45	0.12	-11.9	-9.5	376.9
	127	22.55	8.30	-0.12	11.3	-19.6	-384.3
SLE Rare +	132	-17.78	10.87	0.12	-11.3	-9.0	432.8
	127	23.91	9.51	-0.12	11.9	-19.5	-335.3
SLE Frequenti -	132	-19.88	8.04	0.12	-10.4	-10.2	320.4
	127	23.05	7.14	-0.12	10.2	-19.4	-311.7
SLE Frequenti +	132	-18.98	8.61	0.12	-10.2	-9.9	343.6
	127	23.95	7.62	-0.12	10.4	-19.2	-292.4
SLE Quasi Permanenti -	132	-19.43	8.04	0.12	-10.2	-10.2	321.2
	127	23.50	7.15	-0.12	10.2	-19.2	-293.7
SLE Quasi Permanenti +	132	-19.43	8.04	0.12	-10.2	-10.2	321.2
	127	23.50	7.15	-0.12	10.2	-19.2	-293.7
SLD -	132	-17.98	7.83	-0.04	-25.9	-35.7	286.0
	127	21.33	6.85	-0.28	-5.0	-31.6	-310.7
SLD +	132	-17.26	8.34	0.28	5.0	16.0	366.3
	127	22.05	7.36	0.04	25.9	-6.7	-266.2
SLU Statiche -	110	-7.14	15.03	-0.06	-8.0	9.9	607.0
	111	9.78	13.85	0.05	7.8	3.1	-640.8
SLU Statiche +	110	-2.17	17.39	-0.05	-7.8	11.2	707.8
	111	14.75	16.00	0.06	8.0	4.3	-550.9

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLV -	110	-5.96	8.26	-0.41	-43.3	-54.3	278.0
	111	2.58	7.52	-0.33	-31.1	-27.2	-365.5
SLV +	110	1.83	9.30	0.33	31.1	70.2	446.6
	111	10.37	8.56	0.41	43.3	32.4	-274.4
SLE Rare -	110	-3.73	10.26	-0.04	-6.0	7.4	417.7
	111	6.99	9.44	0.04	5.9	2.3	-436.1
SLE Rare +	110	-1.81	11.80	-0.04	-5.9	7.9	481.0
	111	8.91	10.88	0.04	6.0	2.7	-376.2
SLE Frequenti -	110	-5.04	8.71	-0.05	-6.0	8.2	353.7
	111	8.40	8.09	0.04	6.0	3.0	-349.5
SLE Frequenti +	110	-3.98	9.34	-0.04	-6.0	8.5	380.2
	111	9.46	8.66	0.05	6.0	3.2	-326.0
SLE Quasi Permanenti -	110	-4.62	8.72	-0.05	-6.0	8.4	354.9
	111	9.04	8.10	0.05	6.0	3.2	-328.0
SLE Quasi Permanenti +	110	-4.62	8.72	-0.05	-6.0	8.4	354.9
	111	9.04	8.10	0.05	6.0	3.2	-328.0
SLD -	110	-3.72	8.56	-0.20	-21.9	-18.5	326.4
	111	4.82	7.82	-0.12	-9.7	-10.0	-339.4
SLD +	110	-0.41	9.00	0.12	9.7	34.4	398.2
	111	8.13	8.26	0.20	21.9	15.3	-300.5
SLU Statiche -	102	0.00	2.93	0.00	2.0	0.0	184.2
	106	0.00	0.68	0.00	-2.5	0.0	51.8
SLU Statiche +	102	0.00	2.99	0.00	2.5	0.0	190.8
	106	0.00	0.74	0.00	-2.0	0.0	57.9
SLV -	102	0.00	-0.70	0.00	-1.0	0.0	-175.9
	106	0.00	-2.16	0.00	-4.6	0.0	-276.9
SLV +	102	0.00	4.98	0.00	4.6	0.0	434.7
	106	0.00	3.52	0.00	1.0	0.0	332.2
SLE Rare -	102	0.00	2.19	0.00	1.6	0.0	135.2
	106	0.00	0.60	0.00	-1.8	0.0	33.2
SLE Rare +	102	0.00	2.23	0.00	1.8	0.0	138.6
	106	0.00	0.63	0.00	-1.6	0.0	36.6
SLE Frequenti -	102	0.00	2.13	0.00	1.7	0.0	128.4
	106	0.00	0.68	0.00	-1.9	0.0	26.6
SLE Frequenti +	102	0.00	2.15	0.00	1.9	0.0	129.9
	106	0.00	0.69	0.00	-1.7	0.0	28.1
SLE Quasi Permanenti -	102	0.00	2.13	0.00	1.8	0.0	128.4
	106	0.00	0.69	0.00	-1.8	0.0	26.6
SLE Quasi Permanenti +	102	0.00	2.13	0.00	1.8	0.0	128.4
	106	0.00	0.69	0.00	-1.8	0.0	26.6
SLD -	102	0.00	0.93	0.00	0.6	0.0	-0.6
	106	0.00	-0.53	0.00	-3.0	0.0	-102.0
SLD +	102	0.00	3.35	0.00	3.0	0.0	259.4
	106	0.00	1.89	0.00	-0.6	0.0	157.4
SLU Statiche -	106	0.00	2.54	0.00	1.2	0.0	147.7
	110	0.00	1.27	0.00	-1.2	0.0	-7.7
SLU Statiche +	106	0.00	2.57	0.00	1.2	0.0	150.9
	110	0.00	1.30	0.00	-1.2	0.0	-5.2
SLV -	106	0.00	-0.64	0.00	-1.1	0.0	-183.5
	110	0.00	-1.45	0.00	-2.8	0.0	-293.7
SLV +	106	0.00	4.41	0.00	2.8	0.0	393.3
	110	0.00	3.60	0.00	1.1	0.0	266.1
SLE Rare -	106	0.00	1.91	0.00	0.8	0.0	108.1
	110	0.00	1.03	0.00	-0.8	0.0	-11.0

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLE Rare +	106	0.00	1.93	0.00	0.8	0.0	110.3
	110	0.00	1.04	0.00	-0.8	0.0	-8.9
SLE Frequenti -	106	0.00	1.87	0.00	0.8	0.0	104.0
	110	0.00	1.07	0.00	-0.8	0.0	-14.6
SLE Frequenti +	106	0.00	1.88	0.00	0.8	0.0	104.9
	110	0.00	1.08	0.00	-0.8	0.0	-13.8
SLE Quasi Permanenti -	106	0.00	1.87	0.00	0.8	0.0	104.0
	110	0.00	1.08	0.00	-0.8	0.0	-14.6
SLE Quasi Permanenti +	106	0.00	1.87	0.00	0.8	0.0	104.0
	110	0.00	1.08	0.00	-0.8	0.0	-14.6
SLD -	106	0.00	0.81	0.00	-0.0	0.0	-17.9
	110	0.00	-0.00	0.00	-1.7	0.0	-133.0
SLD +	106	0.00	2.96	0.00	1.7	0.0	227.7
	110	0.00	2.15	0.00	0.0	0.0	105.4
SLU Statiche -	103	-0.36	3.98	0.00	29.4	-0.2	-7.9
	107	0.35	2.99	-0.00	-31.3	-0.3	107.2
SLU Statiche +	103	-0.36	4.00	0.00	31.3	-0.2	-1.7
	107	0.36	3.01	-0.00	-29.4	-0.2	112.0
SLV -	103	-0.28	2.95	0.00	12.8	-0.1	-25.8
	107	0.21	2.27	-0.00	-24.9	-0.2	46.9
SLV +	103	-0.22	3.11	0.00	24.9	-0.0	40.8
	107	0.27	2.43	-0.00	-12.8	-0.1	84.2
SLE Rare -	103	-0.26	3.03	0.00	20.4	-0.1	-1.9
	107	0.25	2.33	-0.00	-22.0	-0.2	71.2
SLE Rare +	103	-0.26	3.04	0.00	22.0	-0.1	3.0
	107	0.26	2.34	-0.00	-20.4	-0.1	77.0
SLE Frequenti -	103	-0.25	3.02	0.00	18.4	-0.1	6.5
	107	0.24	2.36	-0.00	-19.0	-0.1	62.1
SLE Frequenti +	103	-0.25	3.02	0.00	19.0	-0.1	8.5
	107	0.24	2.36	-0.00	-18.4	-0.1	64.4
SLE Quasi Permanenti -	103	-0.25	3.02	0.00	18.4	-0.1	8.5
	107	0.24	2.36	-0.00	-18.4	-0.1	62.1
SLE Quasi Permanenti +	103	-0.25	3.02	0.00	18.4	-0.1	8.5
	107	0.24	2.36	-0.00	-18.4	-0.1	62.1
SLD -	103	-0.26	2.99	0.00	16.2	-0.1	-6.7
	107	0.23	2.32	-0.00	-21.4	-0.1	57.6
SLD +	103	-0.24	3.06	0.00	21.4	-0.1	21.7
	107	0.26	2.38	-0.00	-16.2	-0.1	73.4
SLU Statiche -	107	0.00	3.61	0.00	9.3	0.0	49.7
	111	0.00	3.69	0.00	-9.8	0.0	-61.4
SLU Statiche +	107	0.00	3.62	0.00	9.8	0.0	51.9
	111	0.00	3.71	0.00	-9.3	0.0	-60.6
SLV -	107	0.00	2.67	0.00	3.0	0.0	23.5
	111	0.00	2.73	0.00	-9.7	0.0	-56.9
SLV +	107	0.00	2.90	0.00	9.7	0.0	65.5
	111	0.00	2.96	0.00	-3.0	0.0	-46.4
SLE Rare -	107	0.00	2.78	0.00	6.6	0.0	41.3
	111	0.00	2.84	0.00	-6.7	0.0	-50.3
SLE Rare +	107	0.00	2.78	0.00	6.7	0.0	43.7
	111	0.00	2.85	0.00	-6.6	0.0	-49.0
SLE Frequenti -	107	0.00	2.79	0.00	6.4	0.0	46.5
	111	0.00	2.84	0.00	-6.5	0.0	-53.1
SLE Frequenti +	107	0.00	2.79	0.00	6.5	0.0	47.5
	111	0.00	2.84	0.00	-6.4	0.0	-52.5

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLE Quasi Permanenti -	107	0.00	2.79	0.00	6.4	0.0	47.5
	111	0.00	2.84	0.00	-6.4	0.0	-53.1
SLE Quasi Permanenti +	107	0.00	2.79	0.00	6.4	0.0	47.5
	111	0.00	2.84	0.00	-6.4	0.0	-53.1
SLD -	107	0.00	2.73	0.00	4.9	0.0	35.5
	111	0.00	2.80	0.00	-7.8	0.0	-53.9
SLD +	107	0.00	2.83	0.00	7.8	0.0	53.4
	111	0.00	2.89	0.00	-4.9	0.0	-49.4
SLU Statiche -	125	0.00	2.43	0.00	15.3	0.0	20.3
	127	0.00	2.58	0.00	-16.3	0.0	-39.3
SLU Statiche +	125	0.00	2.45	0.00	16.3	0.0	28.7
	127	0.00	2.60	0.00	-15.3	0.0	-34.1
SLV -	125	0.00	1.57	0.00	6.7	0.0	-1.5
	127	0.00	1.70	0.00	-14.2	0.0	-55.2
SLV +	125	0.00	2.17	0.00	14.2	0.0	32.9
	127	0.00	2.30	0.00	-6.7	0.0	3.7
SLE Rare -	125	0.00	1.87	0.00	11.2	0.0	17.0
	127	0.00	1.99	0.00	-11.9	0.0	-28.4
SLE Rare +	125	0.00	1.88	0.00	11.9	0.0	20.3
	127	0.00	2.00	0.00	-11.2	0.0	-26.5
SLE Frequenti -	125	0.00	1.87	0.00	10.4	0.0	15.5
	127	0.00	1.99	0.00	-10.7	0.0	-26.1
SLE Frequenti +	125	0.00	1.88	0.00	10.7	0.0	17.5
	127	0.00	2.00	0.00	-10.4	0.0	-24.9
SLE Quasi Permanenti -	125	0.00	1.88	0.00	10.4	0.0	16.3
	127	0.00	1.99	0.00	-10.4	0.0	-25.3
SLE Quasi Permanenti +	125	0.00	1.88	0.00	10.4	0.0	16.3
	127	0.00	1.99	0.00	-10.4	0.0	-25.3
SLD -	125	0.00	1.74	0.00	8.8	0.0	8.4
	127	0.00	1.87	0.00	-12.0	0.0	-38.3
SLD +	125	0.00	2.00	0.00	12.0	0.0	23.1
	127	0.00	2.13	0.00	-8.8	0.0	-13.2
SLU Statiche -	110	-0.00	1.99	-0.00	-0.4	0.0	85.1
	116	0.00	1.68	-0.00	0.2	-0.0	-53.1
SLU Statiche +	110	-0.00	2.00	-0.00	-0.2	0.0	86.3
	116	0.00	1.70	-0.00	0.4	-0.0	-51.7
SLV -	110	-0.00	-1.58	-0.00	-4.8	-0.0	-268.8
	116	0.00	-1.73	-0.00	-4.5	-0.0	-378.9
SLV +	110	0.00	4.57	0.00	4.5	0.0	391.5
	116	0.00	4.42	0.00	4.8	0.0	289.7
SLE Rare -	110	-0.00	1.51	-0.00	-0.2	0.0	62.6
	116	0.00	1.32	-0.00	0.2	-0.0	-43.3
SLE Rare +	110	-0.00	1.52	-0.00	-0.2	0.0	64.0
	116	0.00	1.33	-0.00	0.2	-0.0	-41.8
SLE Frequenti -	110	-0.00	1.49	-0.00	-0.2	0.0	60.6
	116	0.00	1.34	-0.00	0.2	-0.0	-45.4
SLE Frequenti +	110	-0.00	1.49	-0.00	-0.2	0.0	61.1
	116	0.00	1.35	-0.00	0.2	-0.0	-44.8
SLE Quasi Permanenti -	110	-0.00	1.49	-0.00	-0.2	0.0	60.6
	116	0.00	1.35	-0.00	0.2	-0.0	-45.4
SLE Quasi Permanenti +	110	-0.00	1.49	-0.00	-0.2	0.0	60.6
	116	0.00	1.35	-0.00	0.2	-0.0	-45.4
SLD -	110	-0.00	0.19	-0.00	-2.2	-0.0	-79.3
	116	0.00	0.03	-0.00	-1.8	-0.0	-187.0

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
SLD +	110	0.00	2.81	0.00	1.8	0.0	201.9
	116	0.00	2.65	0.00	2.2	0.0	97.8
SLU Statiche -	119	-0.00	2.34	0.00	15.2	-0.0	83.2
	124	0.00	2.69	0.00	-15.4	0.0	-116.5
SLU Statiche +	119	-0.00	2.34	0.00	15.4	-0.0	89.0
	124	0.00	2.69	0.00	-15.2	0.0	-110.9
SLV -	119	-0.00	1.47	0.00	4.3	-0.0	33.1
	124	-0.00	1.71	0.00	-17.3	0.0	-105.8
SLV +	119	-0.00	2.16	0.00	17.3	-0.0	83.0
	124	0.00	2.40	0.00	-4.3	0.0	-48.0
SLE Rare -	119	-0.00	1.81	0.00	11.0	-0.0	61.2
	124	-0.00	2.06	0.00	-11.2	0.0	-84.7
SLE Rare +	119	-0.00	1.81	0.00	11.2	-0.0	64.6
	124	-0.00	2.06	0.00	-11.0	0.0	-80.8
SLE Frequenti -	119	-0.00	1.81	0.00	10.4	-0.0	58.0
	124	-0.00	2.05	0.00	-10.5	0.0	-78.3
SLE Frequenti +	119	-0.00	1.82	0.00	10.5	-0.0	59.5
	124	-0.00	2.06	0.00	-10.4	0.0	-76.7
SLE Quasi Permanenti -	119	-0.00	1.82	0.00	10.4	-0.0	58.2
	124	-0.00	2.05	0.00	-10.4	0.0	-76.7
SLE Quasi Permanenti +	119	-0.00	1.82	0.00	10.4	-0.0	58.2
	124	-0.00	2.05	0.00	-10.4	0.0	-76.7
SLD -	119	-0.00	1.67	0.00	8.0	-0.0	47.4
	124	-0.00	1.91	0.00	-13.5	0.0	-89.2
SLD +	119	-0.00	1.96	0.00	13.5	-0.0	68.7
	124	-0.00	2.20	0.00	-8.0	0.0	-64.6
SLU Statiche -	124	0.00	2.41	0.00	20.1	-0.0	62.4
	125	-0.00	2.61	0.00	-20.7	0.0	-85.3
SLU Statiche +	124	0.00	2.42	0.00	20.7	-0.0	69.6
	125	-0.00	2.62	0.00	-20.1	0.0	-77.8
SLV -	124	0.00	1.54	0.00	7.8	-0.0	21.1
	125	-0.00	1.68	0.00	-20.4	0.0	-81.6
SLV +	124	0.00	2.19	0.00	20.4	-0.0	66.1
	125	-0.00	2.33	0.00	-7.8	0.0	-26.3
SLE Rare -	124	0.00	1.86	0.00	14.6	-0.0	46.3
	125	-0.00	2.00	0.00	-15.0	0.0	-61.5
SLE Rare +	124	0.00	1.87	0.00	15.0	-0.0	50.2
	125	-0.00	2.01	0.00	-14.6	0.0	-57.4
SLE Frequenti -	124	0.00	1.87	0.00	13.9	-0.0	43.8
	125	-0.00	2.00	0.00	-14.1	0.0	-55.6
SLE Frequenti +	124	0.00	1.87	0.00	14.1	-0.0	45.6
	125	-0.00	2.00	0.00	-13.9	0.0	-53.7
SLE Quasi Permanenti -	124	0.00	1.87	0.00	13.9	-0.0	44.2
	125	-0.00	2.00	0.00	-13.9	0.0	-54.0
SLE Quasi Permanenti +	124	0.00	1.87	0.00	13.9	-0.0	44.2
	125	-0.00	2.00	0.00	-13.9	0.0	-54.0
SLD -	124	0.00	1.73	0.00	11.4	-0.0	34.0
	125	-0.00	1.86	0.00	-16.8	0.0	-65.8
SLD +	124	0.00	2.01	0.00	16.8	-0.0	53.2
	125	-0.00	2.14	0.00	-11.4	0.0	-42.1
SLU Statiche -	128	-0.00	1.13	-0.00	2.6	-0.0	-11.9
	130	0.00	2.53	-0.00	-2.7	-0.0	-142.9
SLU Statiche +	128	-0.00	1.16	-0.00	2.7	-0.0	-8.5

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	130	0.00	2.56	-0.00	-2.6	-0.0	-139.4
SLV -	128	-0.00	-2.01	-0.00	-4.1	-0.0	-323.2
	130	0.00	-1.11	-0.00	-7.8	-0.0	-417.9
SLV +	128	0.00	3.95	0.00	7.8	0.0	327.0
	130	0.00	4.85	0.00	4.1	0.0	219.7
SLE Rare -	128	-0.00	0.91	-0.00	1.9	-0.0	-4.2
	130	0.00	1.90	-0.00	-1.9	-0.0	-104.9
SLE Rare +	128	-0.00	0.94	-0.00	1.9	-0.0	-1.7
	130	0.00	1.92	-0.00	-1.9	-0.0	-102.5
SLE Frequenti -	128	-0.00	0.97	-0.00	1.9	-0.0	1.8
	130	0.00	1.86	-0.00	-1.9	-0.0	-99.1
SLE Frequenti +	128	-0.00	0.98	-0.00	1.9	-0.0	2.8
	130	0.00	1.87	-0.00	-1.9	-0.0	-98.1
SLE Quasi Permanenti -	128	-0.00	0.98	-0.00	1.9	-0.0	2.8
	130	0.00	1.86	-0.00	-1.9	-0.0	-98.1
SLE Quasi Permanenti +	128	-0.00	0.98	-0.00	1.9	-0.0	2.8
	130	0.00	1.86	-0.00	-1.9	-0.0	-98.1
SLD -	128	-0.00	-0.30	-0.00	-0.7	-0.0	-136.6
	130	0.00	0.60	-0.00	-4.4	-0.0	-234.9
SLD +	128	0.00	2.24	0.00	4.4	0.0	140.4
	130	0.00	3.14	-0.00	0.7	0.0	36.8
SLU Statiche -	130	0.00	0.74	-0.00	1.8	-0.0	-48.6
	132	-0.00	2.89	-0.00	-1.8	-0.0	-189.7
SLU Statiche +	130	0.00	0.80	-0.00	1.8	-0.0	-43.0
	132	-0.00	2.95	-0.00	-1.8	-0.0	-183.4
SLV -	130	-0.00	-2.08	-0.00	-3.7	-0.0	-323.4
	132	-0.00	-0.70	-0.00	-6.2	-0.0	-432.6
SLV +	130	0.00	3.53	0.00	6.2	0.0	281.5
	132	-0.00	4.92	0.00	3.7	0.0	175.4
SLE Rare -	130	0.00	0.64	-0.00	1.3	-0.0	-30.1
	132	-0.00	2.16	-0.00	-1.3	-0.0	-137.8
SLE Rare +	130	0.00	0.67	-0.00	1.3	-0.0	-26.5
	132	-0.00	2.20	-0.00	-1.3	-0.0	-134.3
SLE Frequenti -	130	0.00	0.72	-0.00	1.3	-0.0	-21.1
	132	-0.00	2.10	-0.00	-1.3	-0.0	-128.8
SLE Frequenti +	130	0.00	0.74	-0.00	1.3	-0.0	-19.7
	132	-0.00	2.11	-0.00	-1.3	-0.0	-127.3
SLE Quasi Permanenti -	130	0.00	0.74	-0.00	1.3	-0.0	-19.7
	132	-0.00	2.10	-0.00	-1.3	-0.0	-127.3
SLE Quasi Permanenti +	130	0.00	0.74	-0.00	1.3	-0.0	-19.7
	132	-0.00	2.10	-0.00	-1.3	-0.0	-127.3
SLD -	130	-0.00	-0.47	-0.00	-0.8	-0.0	-149.8
	132	-0.00	0.92	-0.00	-3.4	-0.0	-258.1
SLD +	130	0.00	1.92	0.00	3.4	0.0	107.9
	132	-0.00	3.31	-0.00	0.8	0.0	0.9
SLU Statiche -	132	0.00	0.08	0.00	1.5	0.0	-119.5
	133	0.00	3.51	0.00	-1.9	0.0	-261.0
SLU Statiche +	132	0.00	0.17	0.00	1.9	0.0	-110.2
	133	0.00	3.60	0.00	-1.5	0.0	-250.8
SLV -	132	0.00	-2.44	0.00	-5.4	0.0	-360.6
	133	0.00	-0.21	0.00	-7.6	0.0	-473.0
SLV +	132	0.00	3.05	0.00	7.6	0.0	227.8
	133	0.00	5.28	0.00	5.4	0.0	125.0
SLE Rare -	132	0.00	0.17	0.00	1.2	0.0	-80.7

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	133	0.00	2.61	0.00	-1.3	0.0	-188.6
SLE Rare +	132	0.00	0.22	0.00	1.3	0.0	-75.2
	133	0.00	2.66	0.00	-1.2	0.0	-183.1
SLE Frequenti -	132	0.00	0.30	0.00	1.1	0.0	-67.2
	133	0.00	2.52	0.00	-1.2	0.0	-175.0
SLE Frequenti +	132	0.00	0.32	0.00	1.2	0.0	-65.0
	133	0.00	2.54	0.00	-1.1	0.0	-172.7
SLE Quasi Permanenti -	132	0.00	0.32	0.00	1.1	0.0	-65.0
	133	0.00	2.52	0.00	-1.1	0.0	-172.7
SLE Quasi Permanenti +	132	0.00	0.32	0.00	1.1	0.0	-65.0
	133	0.00	2.52	0.00	-1.1	0.0	-172.7
SLD -	132	0.00	-0.86	0.00	-1.7	0.0	-191.8
	133	0.00	1.36	0.00	-3.9	0.0	-301.4
SLD +	132	0.00	1.48	0.00	3.9	0.0	58.9
	133	0.00	3.70	0.00	1.7	0.0	-46.6
SLU Statiche -	116	0.00	1.55	0.00	1.5	-0.0	33.6
	123	-0.00	2.13	0.00	-1.5	0.0	-98.1
SLU Statiche +	116	0.00	1.56	0.00	1.5	-0.0	35.0
	123	-0.00	2.14	0.00	-1.5	0.0	-96.5
SLV -	116	0.00	-1.95	-0.00	-5.0	-0.0	-313.4
	123	-0.00	-1.53	-0.00	-7.1	-0.0	-413.8
SLV +	116	0.00	4.37	0.00	7.1	0.0	369.8
	123	-0.00	4.78	0.00	5.0	0.0	267.6
SLE Rare -	116	0.00	1.21	0.00	1.1	-0.0	27.7
	123	-0.00	1.63	0.00	-1.1	0.0	-73.5
SLE Rare +	116	0.00	1.21	0.00	1.1	-0.0	27.9
	123	-0.00	1.63	0.00	-1.1	0.0	-73.3
SLE Frequenti -	116	0.00	1.21	0.00	1.1	-0.0	27.7
	123	-0.00	1.63	0.00	-1.1	0.0	-73.6
SLE Frequenti +	116	0.00	1.21	0.00	1.1	-0.0	28.0
	123	-0.00	1.63	0.00	-1.1	0.0	-73.3
SLE Quasi Permanenti -	116	0.00	1.21	0.00	1.1	-0.0	27.9
	123	-0.00	1.63	0.00	-1.1	0.0	-73.4
SLE Quasi Permanenti +	116	0.00	1.21	0.00	1.1	-0.0	27.9
	123	-0.00	1.63	0.00	-1.1	0.0	-73.4
SLD -	116	0.00	-0.13	-0.00	-1.5	-0.0	-117.3
	123	-0.00	0.28	-0.00	-3.7	-0.0	-218.2
SLD +	116	0.00	2.56	0.00	3.7	0.0	173.7
	123	-0.00	2.97	0.00	1.5	0.0	72.0
SLU Statiche -	123	-0.00	1.31	0.00	2.2	0.0	8.6
	128	-0.00	2.35	0.00	-2.2	0.0	-123.3
SLU Statiche +	123	-0.00	1.34	0.00	2.2	0.0	11.0
	128	-0.00	2.37	0.00	-2.2	0.0	-120.7
SLV -	123	-0.00	-2.06	-0.00	-4.2	-0.0	-324.9
	128	-0.00	-1.37	-0.00	-7.3	-0.0	-426.8
SLV +	123	0.00	4.21	0.00	7.3	0.0	352.1
	128	0.00	4.90	0.00	4.2	0.0	251.2
SLE Rare -	123	-0.00	1.05	0.00	1.6	0.0	10.3
	128	-0.00	1.78	0.00	-1.6	0.0	-91.0
SLE Rare +	123	-0.00	1.06	0.00	1.6	0.0	11.5
	128	-0.00	1.79	0.00	-1.6	0.0	-89.8
SLE Frequenti -	123	-0.00	1.07	0.00	1.5	0.0	13.4
	128	-0.00	1.76	0.00	-1.6	0.0	-88.0
SLE Frequenti +	123	-0.00	1.08	0.00	1.6	0.0	14.0

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	128	-0.00	1.76	0.00	-1.5	0.0	-87.4
SLE Quasi Permanenti -	123	-0.00	1.08	0.00	1.5	0.0	14.0
	128	-0.00	1.76	0.00	-1.5	0.0	-87.4
SLE Quasi Permanenti +	123	-0.00	1.08	0.00	1.5	0.0	14.0
	128	-0.00	1.76	0.00	-1.5	0.0	-87.4
SLD -	123	-0.00	-0.26	-0.00	-0.9	-0.0	-130.6
	128	-0.00	0.43	0.00	-4.0	-0.0	-232.2
SLD +	123	0.00	2.41	0.00	4.0	0.0	157.8
	128	0.00	3.10	0.00	0.9	0.0	56.6
SLU Statiche -	111	0.00	2.08	-0.00	-3.0	0.0	54.1
	114	0.00	3.01	-0.00	1.8	-0.0	-131.0
SLU Statiche +	111	0.00	2.10	-0.00	-1.8	0.0	60.1
	114	0.00	3.04	-0.00	3.0	-0.0	-121.4
SLV -	111	0.00	1.31	-0.00	-3.4	0.0	5.6
	114	0.00	1.94	-0.00	-0.2	-0.0	-103.8
SLV +	111	0.00	1.97	-0.00	0.2	0.0	71.8
	114	0.00	2.60	-0.00	3.4	-0.0	-68.5
SLE Rare -	111	0.00	1.62	-0.00	-2.0	0.0	40.7
	114	0.00	2.28	-0.00	1.5	-0.0	-95.3
SLE Rare +	111	0.00	1.64	-0.00	-1.5	0.0	44.6
	114	0.00	2.31	-0.00	2.0	-0.0	-89.8
SLE Frequenti -	111	0.00	1.65	-0.00	-1.2	0.0	39.9
	114	0.00	2.25	-0.00	0.9	-0.0	-86.5
SLE Frequenti +	111	0.00	1.66	-0.00	-0.9	0.0	41.4
	114	0.00	2.26	-0.00	1.2	-0.0	-84.1
SLE Quasi Permanenti -	111	0.00	1.66	-0.00	-0.9	0.0	40.3
	114	0.00	2.25	-0.00	0.9	-0.0	-84.3
SLE Quasi Permanenti +	111	0.00	1.66	-0.00	-0.9	0.0	40.3
	114	0.00	2.25	-0.00	0.9	-0.0	-84.3
SLD -	111	0.00	1.50	-0.00	-2.3	0.0	24.6
	114	0.00	2.13	-0.00	0.8	-0.0	-93.7
SLD +	111	0.00	1.78	-0.00	-0.8	0.0	52.8
	114	0.00	2.41	-0.00	2.3	-0.0	-78.6
SLU Statiche -	127	-0.00	1.62	0.00	-33.3	0.0	-119.0
	129	0.00	3.36	0.00	31.3	0.0	-19.2
SLU Statiche +	127	-0.00	1.67	0.00	-31.3	0.0	-111.8
	129	0.00	3.41	0.00	33.3	0.0	-17.3
SLV -	127	-0.00	1.07	0.00	-22.6	-0.0	-95.6
	129	0.00	2.27	0.00	17.5	0.0	-54.5
SLV +	127	-0.00	1.60	0.00	-17.5	0.0	-59.0
	129	0.00	2.80	0.00	22.6	0.0	23.6
SLE Rare -	127	-0.00	1.31	0.00	-23.4	0.0	-83.3
	129	0.00	2.56	0.00	22.0	0.0	-14.6
SLE Rare +	127	-0.00	1.31	0.00	-22.0	0.0	-81.7
	129	0.00	2.56	0.00	23.4	0.0	-13.4
SLE Frequenti -	127	-0.00	1.33	0.00	-20.5	0.0	-78.5
	129	0.00	2.53	0.00	20.0	0.0	-15.1
SLE Frequenti +	127	-0.00	1.34	0.00	-20.0	0.0	-77.0
	129	0.00	2.54	0.00	20.5	0.0	-14.6
SLE Quasi Permanenti -	127	-0.00	1.34	0.00	-20.0	0.0	-77.0
	129	0.00	2.53	0.00	20.0	0.0	-15.0
SLE Quasi Permanenti +	127	-0.00	1.34	0.00	-20.0	0.0	-77.0
	129	0.00	2.53	0.00	20.0	0.0	-15.0
SLD -	127	-0.00	1.22	0.00	-21.1	-0.0	-85.1

Comb.	Nodo	N [kN]	T1-2 [kN]	T1-3 [kN]	Mt [kgm]	M1-3 [kgm]	M1-2 [kgm]
	129	0.00	2.42	0.00	19.0	0.0	-32.0
SLD +	127	-0.00	1.45	0.00	-19.0	0.0	-69.6
	129	0.00	2.65	0.00	21.1	0.0	1.2
SLU Statiche -	114	0.00	2.33	-0.00	13.4	0.0	98.4
	119	-0.00	2.69	-0.00	-14.0	-0.0	-134.1
SLU Statiche +	114	0.00	2.34	-0.00	14.0	0.0	107.2
	119	-0.00	2.70	-0.00	-13.4	-0.0	-127.4
SLV -	114	0.00	1.44	-0.00	4.1	0.0	37.0
	119	-0.00	1.70	-0.00	-15.0	-0.0	-113.2
SLV +	114	0.00	2.17	-0.00	15.0	0.0	100.7
	119	-0.00	2.43	-0.00	-4.1	-0.0	-64.7
SLE Rare -	114	0.00	1.80	-0.00	9.8	0.0	72.6
	119	-0.00	2.06	-0.00	-10.2	-0.0	-97.5
SLE Rare +	114	0.00	1.81	-0.00	10.2	0.0	77.6
	119	-0.00	2.07	-0.00	-9.8	-0.0	-92.8
SLE Frequenti -	114	0.00	1.80	-0.00	9.2	0.0	67.6
	119	-0.00	2.06	-0.00	-9.3	-0.0	-89.6
SLE Frequenti +	114	0.00	1.81	-0.00	9.3	0.0	69.9
	119	-0.00	2.07	-0.00	-9.2	-0.0	-87.8
SLE Quasi Permanenti -	114	0.00	1.81	-0.00	9.2	0.0	67.9
	119	-0.00	2.06	-0.00	-9.2	-0.0	-87.8
SLE Quasi Permanenti +	114	0.00	1.81	-0.00	9.2	0.0	67.9
	119	-0.00	2.06	-0.00	-9.2	-0.0	-87.8
SLD -	114	0.00	1.65	-0.00	7.2	0.0	55.3
	119	-0.00	1.91	-0.00	-11.9	-0.0	-99.3
SLD +	114	0.00	1.96	-0.00	11.9	0.0	82.4
	119	-0.00	2.22	-0.00	-7.2	-0.0	-78.6

Pali o gruppi di pali di fondazione

Convenzioni adottate

I *pali* o *gruppo di pali* di fondazione vengono schematizzati nel codice di calcolo assimilandoli ad un elemento boundary, agente nel nodo definito dall'operatore, ed in grado di reagire lungo le sei componenti di spostamento possibili per il nodo.

La matrice di rigidezza dell'elemento *palo* o *gruppo di pali* risulta pertanto essere cosi composta:

	U_x	U_y	U_z	R_x	R_y	R_z
U_x	K_{UxUx}	K_{UxUy}	K_{UxUz}	K_{UxRx}	K_{UxRy}	K_{UxRz}
U_y		K_{UyUy}	K_{UyUz}	K_{UyRx}	K_{UyRy}	K_{UyRz}
U_z			K_{UzUz}	K_{UzRx}	K_{UzRy}	K_{UzRz}
R_x				K_{RxRx}	K_{RxRy}	K_{RxRz}
R_y		simm.			K_{RyRy}	K_{RyRz}
R_z						K_{RzRz}

Tale matrice può essere definita direttamente dall'operatore ovvero calcolata con l'ausilio del programma **Pali**.

In ogni caso il codice di calcolo si limita ad assemblare tale matrice, assumendo che la stessa sia già definita nel sistema di riferimento gloabale, ed a ottenere le sei componenti di sollecitazioni ad essa associate.

Tale matrice è riferita ad una terna di riferimento **destrorsa**.

Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
1	SLU Statiche -	-1.45	-4.01	-329.05	-1377.0	187.5	32.7

Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
	SLU Statiche +	-0.99	-3.90	-314.51	-1342.4	270.8	33.8
	SLV -	-8.96	-8.60	-267.65	-1953.5	-982.6	-19.1
	SLV +	7.68	2.96	-181.55	34.8	1197.4	64.6
	SLE Rare -	-0.95	-2.91	-234.51	-988.0	136.6	23.5
	SLE Rare +	-0.74	-2.81	-232.35	-969.2	179.4	23.9
	SLE Frequenti -	-0.91	-2.71	-227.67	-943.6	136.7	22.3
	SLE Frequenti +	-0.81	-2.68	-224.75	-934.2	154.3	22.6
	SLE Quasi Permanenti -	-0.87	-2.68	-224.80	-934.2	146.5	22.3
	SLE Quasi Permanenti +	-0.87	-2.68	-224.80	-934.2	146.5	22.3
	SLD -	-4.18	-5.27	-242.95	-1381.6	-356.0	4.9
	SLD +	2.90	-0.37	-206.25	-537.1	570.8	40.6
2	SLU Statiche -	0.66	-3.43	-315.22	-1393.2	-403.7	30.0
	SLU Statiche +	1.05	-3.30	-301.42	-1331.0	-341.4	30.7
	SLV -	-8.88	-8.55	-234.22	-2011.4	-1790.4	-25.0
	SLV +	10.46	3.71	-193.50	94.8	1178.6	66.8
	SLE Rare -	0.58	-2.53	-224.70	-997.5	-298.1	21.4
	SLE Rare +	0.76	-2.43	-221.98	-979.2	-267.9	21.8
	SLE Frequenti -	0.53	-2.32	-216.33	-948.7	-276.4	20.4
	SLE Frequenti +	0.61	-2.29	-213.49	-933.9	-262.9	20.6
	SLE Quasi Permanenti -	0.55	-2.29	-213.49	-933.9	-266.5	20.4
	SLE Quasi Permanenti +	0.55	-2.29	-213.49	-933.9	-266.5	20.4
	SLD -	-3.32	-5.03	-222.49	-1406.1	-937.0	1.4
	SLD +	4.90	0.18	-205.23	-510.5	325.1	40.4
3	SLU Statiche -	-3.05	-4.51	-302.90	-1787.6	464.9	24.0
	SLU Statiche +	-2.09	-4.26	-295.88	-1726.7	803.3	24.6
	SLV -	-15.69	-9.93	-239.04	-2428.4	-1979.2	-26.8
	SLV +	11.06	3.48	-184.16	-122.7	3197.0	60.6
	SLE Rare -	-2.16	-3.32	-218.90	-1312.4	409.6	17.2
	SLE Rare +	-1.71	-3.11	-214.85	-1261.3	560.6	17.6
	SLE Frequenti -	-1.89	-3.02	-208.36	-1224.3	387.5	16.4
	SLE Frequenti +	-1.69	-2.95	-206.20	-1207.3	460.1	16.6
	SLE Quasi Permanenti -	-1.75	-2.95	-206.20	-1207.3	410.5	16.4
	SLE Quasi Permanenti +	-1.75	-2.95	-206.20	-1207.3	410.5	16.4
	SLD -	-8.00	-6.08	-223.25	-1766.2	-491.8	-1.7
	SLD +	3.37	-0.37	-199.95	-784.8	1709.6	35.5
5	SLU Statiche -	-2.22	-3.44	-390.28	-1213.0	281.3	30.5
	SLU Statiche +	-1.70	-3.33	-373.10	-1186.1	379.7	31.3
	SLV -	-8.05	-8.33	-305.78	-1880.8	-674.4	-22.5
	SLV +	5.81	3.52	-226.38	188.0	1014.3	64.9
	SLE Rare -	-1.48	-2.48	-277.41	-870.9	209.5	21.7
	SLE Rare +	-1.27	-2.37	-274.97	-850.8	252.0	22.1
	SLE Frequenti -	-1.39	-2.29	-269.80	-827.3	196.5	20.6
	SLE Frequenti +	-1.28	-2.25	-266.35	-819.6	217.0	20.9
	SLE Quasi Permanenti -	-1.33	-2.25	-266.44	-819.6	205.3	20.6
	SLE Quasi Permanenti +	-1.33	-2.25	-266.44	-819.6	205.3	20.6
	SLD -	-4.07	-4.92	-282.99	-1285.6	-188.8	2.6
	SLD +	1.83	0.11	-249.18	-407.1	528.7	39.8
6	SLU Statiche -	-1.19	-2.35	-380.76	-1049.7	-0.7	26.4
	SLU Statiche +	-0.71	-2.23	-363.55	-1016.2	86.2	27.1
	SLV -	-8.74	-8.14	-270.76	-1889.6	-1264.9	-26.1
	SLV +	7.85	4.88	-244.91	442.0	1217.6	63.1
	SLE Rare -	-0.70	-1.69	-270.44	-747.8	-0.0	18.9

Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
	SLE Rare +	-0.54	-1.59	-267.54	-728.7	30.1	19.3
	SLE Frequenti -	-0.70	-1.53	-261.06	-706.7	2.1	18.0
	SLE Frequenti +	-0.60	-1.49	-257.56	-698.3	20.4	18.2
	SLE Quasi Permanenti -	-0.65	-1.49	-257.56	-698.3	10.7	18.0
	SLE Quasi Permanenti +	-0.65	-1.49	-257.56	-698.3	10.7	18.0
	SLD -	-3.97	-4.40	-263.32	-1219.4	-551.2	-0.5
	SLD +	3.08	1.14	-252.35	-228.2	503.8	37.5
7	SLU Statiche -	-4.46	-0.01	-374.44	-452.0	672.5	23.8
	SLU Statiche +	-3.15	0.19	-364.89	-420.9	1115.3	24.4
	SLV -	-15.32	-7.82	-286.66	-1798.7	-1501.1	-27.8
	SLV +	8.66	7.81	-235.67	1162.3	3176.5	61.3
	SLE Rare -	-3.17	-0.02	-270.01	-331.9	587.1	17.0
	SLE Rare +	-2.58	0.10	-265.12	-305.7	782.8	17.4
	SLE Frequenti -	-2.74	0.12	-257.40	-292.0	546.8	16.3
	SLE Frequenti +	-2.46	0.16	-254.65	-283.2	641.9	16.5
	SLE Quasi Permanenti -	-2.55	0.16	-254.65	-283.2	576.7	16.3
	SLE Quasi Permanenti +	-2.55	0.16	-254.65	-283.2	576.7	16.3
	SLD -	-8.43	-3.33	-272.00	-948.4	-156.9	-2.2
	SLD +	1.77	3.32	-250.33	312.0	1832.3	35.7
9	SLU Statiche -	-3.14	-2.47	-447.02	-945.0	448.2	23.5
	SLU Statiche +	-2.62	-2.32	-427.59	-922.0	543.8	24.1
	SLV -	-7.39	-7.64	-345.58	-1699.8	-366.3	-27.0
	SLV +	3.93	4.18	-263.55	366.9	921.2	60.0
	SLE Rare -	-2.10	-1.77	-317.01	-680.0	319.4	16.7
	SLE Rare +	-1.90	-1.65	-314.37	-660.0	360.2	17.1
	SLE Frequenti -	-1.98	-1.62	-308.85	-646.5	300.7	16.0
	SLE Frequenti +	-1.88	-1.58	-304.95	-639.9	320.6	16.1
	SLE Quasi Permanenti -	-1.92	-1.58	-305.08	-639.9	308.4	16.0
	SLE Quasi Permanenti +	-1.92	-1.58	-305.08	-639.9	308.4	16.0
	SLD -	-4.14	-4.24	-322.01	-1105.3	4.3	-2.0
	SLD +	0.67	0.78	-287.12	-227.6	550.7	35.0
10	SLU Statiche -	-0.89	0.18	-429.08	-291.7	-183.8	22.7
	SLU Statiche +	-0.44	0.43	-409.99	-255.4	-105.0	23.3
	SLV -	-7.09	-6.80	-297.71	-1498.6	-1135.0	-28.7
	SLV +	6.62	7.12	-283.10	1105.6	826.0	60.7
	SLE Rare -	-0.50	0.19	-303.91	-194.1	-129.3	16.2
	SLE Rare +	-0.35	0.29	-300.95	-177.2	-103.3	16.6
	SLE Frequenti -	-0.47	0.26	-294.07	-179.5	-134.3	15.5
	SLE Frequenti +	-0.37	0.31	-290.21	-171.7	-117.9	15.7
	SLE Quasi Permanenti -	-0.42	0.29	-290.21	-173.9	-127.6	15.5
	SLE Quasi Permanenti +	-0.42	0.29	-290.21	-173.9	-127.6	15.5
	SLD -	-3.15	-2.80	-293.52	-750.3	-571.1	-3.0
	SLD +	2.68	3.12	-287.30	357.2	262.1	35.1
11	SLU Statiche -	-0.96	5.77	-388.38	1253.4	-447.0	21.0
	SLU Statiche +	0.27	5.96	-377.75	1286.2	-23.8	21.5
	SLV -	-11.08	-4.08	-289.63	-687.7	-1957.9	-30.3
	SLV +	9.39	12.37	-249.29	2517.4	2014.6	60.1
	SLE Rare -	-0.66	4.21	-278.72	916.8	-204.3	15.1
	SLE Rare +	-0.16	4.25	-274.36	936.3	-34.1	15.4
	SLE Frequenti -	-0.34	4.10	-266.60	888.8	-232.1	14.4
	SLE Frequenti +	-0.07	4.14	-263.64	896.7	-141.8	14.6
	SLE Quasi Permanenti -	-0.17	4.10	-263.64	888.8	-198.5	14.4

Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
	SLE Quasi Permanenti +	-0.17	4.10	-263.64	888.8	-198.5	14.4
	SLD -	-5.20	0.64	-278.03	232.5	-816.3	-4.4
	SLD +	3.51	7.65	-260.89	1597.2	873.1	34.2
14	SLU Statiche -	2.24	3.85	-380.20	665.5	-1401.0	19.2
	SLU Statiche +	3.29	4.00	-369.36	735.3	-1034.6	19.6
	SLV -	-7.53	-5.47	-278.28	-1091.8	-2417.6	-32.0
	SLV +	10.43	11.22	-246.94	2160.4	1032.4	59.4
	SLE Rare -	1.64	2.81	-271.74	495.2	-890.8	13.8
	SLE Rare +	2.02	2.92	-268.12	537.7	-761.1	14.1
	SLE Frequenti -	1.82	2.73	-260.75	476.4	-899.9	13.2
	SLE Frequenti +	2.04	2.77	-257.79	491.8	-822.3	13.4
	SLE Quasi Permanenti -	1.95	2.73	-257.79	477.6	-865.5	13.2
	SLE Quasi Permanenti +	1.95	2.73	-257.79	477.6	-865.5	13.2
	SLD -	-2.37	-0.68	-269.26	-158.0	-1426.0	-5.8
	SLD +	5.26	6.43	-255.96	1226.6	40.8	33.2
16	SLU Statiche -	0.20	0.76	-454.77	-138.4	-565.0	19.8
	SLU Statiche +	0.59	1.02	-434.85	-99.5	-508.3	20.2
	SLV -	-5.43	-6.96	-310.54	-1557.7	-1282.8	-31.0
	SLV +	6.42	8.00	-305.14	1350.7	427.8	59.2
	SLE Rare -	0.28	0.57	-321.69	-96.9	-410.6	14.2
	SLE Rare +	0.41	0.65	-318.73	-81.9	-388.3	14.6
	SLE Frequenti -	0.30	0.61	-311.73	-88.4	-409.9	13.6
	SLE Frequenti +	0.38	0.66	-307.71	-80.1	-398.0	13.7
	SLE Quasi Permanenti -	0.34	0.64	-307.71	-83.4	-404.1	13.6
	SLE Quasi Permanenti +	0.34	0.64	-307.71	-83.4	-404.1	13.6
	SLD -	-2.02	-2.66	-308.99	-722.2	-791.1	-5.1
	SLD +	3.02	3.70	-306.69	515.3	-63.9	33.3
18	SLU Statiche -	-3.18	-0.78	-500.59	-500.0	367.8	17.9
	SLU Statiche +	-2.70	-0.55	-479.17	-471.4	451.1	18.3
	SLV -	-6.53	-6.26	-381.02	-1330.4	-324.4	-31.6
	SLV +	2.98	5.11	-301.08	603.9	759.8	57.1
	SLE Rare -	-2.13	-0.56	-354.43	-362.1	258.1	12.8
	SLE Rare +	-1.95	-0.45	-351.63	-343.1	296.1	13.2
	SLE Frequenti -	-2.00	-0.47	-345.84	-344.9	237.1	12.3
	SLE Frequenti +	-1.90	-0.42	-341.54	-338.5	254.4	12.4
	SLE Quasi Permanenti -	-1.94	-0.44	-341.70	-338.8	243.5	12.3
	SLE Quasi Permanenti +	-1.94	-0.44	-341.70	-338.8	243.5	12.3
	SLD -	-3.79	-2.99	-358.02	-774.1	-12.3	-6.1
	SLD +	0.24	1.84	-324.08	47.6	447.8	31.6
19	SLU Statiche -	2.84	0.98	-373.29	-221.3	-1575.4	17.8
	SLU Statiche +	3.71	1.44	-362.54	-47.4	-1259.2	18.2
	SLV -	-6.26	-7.70	-271.36	-1726.8	-2403.3	-33.3
	SLV +	10.01	9.86	-243.76	1697.3	693.5	59.0
	SLE Rare -	2.06	0.83	-266.49	-107.8	-1029.1	12.9
	SLE Rare +	2.37	1.03	-263.12	-38.7	-921.2	13.2
	SLE Frequenti -	2.17	0.78	-255.98	-120.9	-1026.6	12.4
	SLE Frequenti +	2.36	0.88	-253.06	-83.8	-959.9	12.5
	SLE Quasi Permanenti -	2.27	0.81	-253.06	-106.8	-994.9	12.4
	SLE Quasi Permanenti +	2.27	0.81	-253.06	-106.8	-994.9	12.4
	SLD -	-1.58	-2.66	-263.41	-743.7	-1512.5	-6.8
	SLD +	5.33	4.82	-251.71	714.3	-197.3	32.5

Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
23	SLU Statiche -	0.56	0.21	-466.45	-339.5	-721.6	17.6
	SLU Statiche +	0.90	0.45	-446.19	-306.1	-676.4	17.9
	SLV -	-5.30	-6.99	-316.79	-1569.2	-1471.7	-32.8
	SLV +	6.72	7.19	-314.78	1060.8	402.8	58.1
	SLE Rare -	0.52	0.16	-329.76	-245.3	-523.6	12.7
	SLE Rare +	0.63	0.24	-326.81	-231.7	-504.0	13.0
	SLE Frequenti -	0.52	0.17	-319.75	-243.0	-517.7	12.2
	SLE Frequenti +	0.60	0.23	-315.67	-235.9	-508.1	12.3
	SLE Quasi Permanenti -	0.56	0.20	-315.67	-239.2	-512.1	12.2
	SLE Quasi Permanenti +	0.56	0.20	-315.67	-239.2	-512.1	12.2
	SLD -	-1.84	-2.91	-316.21	-813.9	-932.6	-6.7
	SLD +	3.26	3.12	-315.36	305.5	-136.3	32.0
24	SLU Statiche -	2.12	-0.77	-366.21	-773.3	-1324.0	16.8
	SLU Statiche +	2.73	-0.02	-355.61	-513.2	-1085.6	17.1
	SLV -	-6.62	-9.32	-266.50	-2157.3	-2259.9	-34.5
	SLV +	9.39	9.46	-238.73	1483.8	786.2	58.9
	SLE Rare -	1.53	-0.33	-261.34	-475.8	-871.4	12.2
	SLE Rare +	1.75	-0.04	-258.09	-379.4	-790.9	12.5
	SLE Frequenti -	1.58	-0.38	-251.14	-488.4	-863.2	11.8
	SLE Frequenti +	1.71	-0.22	-248.28	-433.1	-813.0	11.9
	SLE Quasi Permanenti -	1.65	-0.32	-248.28	-465.3	-838.3	11.8
	SLE Quasi Permanenti +	1.65	-0.32	-248.28	-465.3	-838.3	11.8
	SLD -	-2.01	-3.93	-258.50	-1112.0	-1383.4	-7.7
	SLD +	4.78	4.07	-246.73	438.5	-90.3	32.1
25	SLU Statiche -	1.56	-1.24	-352.17	-951.1	-1098.4	15.5
	SLU Statiche +	1.87	-0.31	-342.00	-638.3	-948.1	15.9
	SLV -	-6.93	-10.47	-259.23	-2427.4	-2156.2	-35.8
	SLV +	8.95	10.24	-226.76	1588.2	863.1	58.6
	SLE Rare -	1.12	-0.61	-251.34	-586.4	-736.9	11.3
	SLE Rare +	1.22	-0.25	-248.21	-470.1	-689.8	11.6
	SLE Frequenti -	1.09	-0.67	-241.57	-602.4	-718.0	11.0
	SLE Frequenti +	1.16	-0.48	-238.82	-535.9	-686.6	11.1
	SLE Quasi Permanenti -	1.12	-0.60	-238.82	-574.7	-700.0	11.0
	SLE Quasi Permanenti +	1.12	-0.60	-238.82	-574.7	-700.0	11.0
	SLD -	-2.36	-4.52	-249.89	-1274.7	-1287.3	-8.7
	SLD +	4.38	4.30	-236.10	435.5	-5.9	31.5
26	SLU Statiche -	-3.05	0.30	-530.31	-245.9	262.5	16.5
	SLU Statiche +	-2.62	0.56	-507.92	-207.2	334.2	16.8
	SLV -	-6.76	-5.15	-400.08	-1033.0	-502.5	-32.5
	SLV +	3.31	5.43	-322.50	641.7	796.2	56.3
	SLE Rare -	-2.06	0.21	-375.19	-182.5	182.3	11.9
	SLE Rare +	-1.89	0.32	-372.32	-160.6	216.1	12.2
	SLE Frequenti -	-1.93	0.23	-366.29	-180.5	163.7	11.4
	SLE Frequenti +	-1.84	0.28	-361.79	-172.3	178.6	11.6
	SLE Quasi Permanenti -	-1.87	0.26	-361.96	-175.5	169.3	11.4
	SLE Quasi Permanenti +	-1.87	0.26	-361.96	-175.5	169.3	11.4
	SLD -	-3.86	-2.11	-377.73	-551.6	-128.8	-7.0
	SLD +	0.41	2.39	-344.85	160.3	422.4	30.8
27	SLU Statiche -	2.96	-0.41	-318.34	-745.6	-1470.1	14.5
	SLU Statiche +	3.07	0.53	-309.44	-426.7	-1389.3	14.9
	SLV -	-5.59	-11.39	-241.79	-2610.7	-2390.4	-36.5
	SLV +	9.69	12.40	-198.20	2080.9	456.1	58.0

Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
	SLE Rare -	2.11	-0.01	-227.45	-436.6	-1026.6	10.6
	SLE Rare +	2.17	0.38	-224.53	-312.4	-1012.7	10.9
	SLE Frequenti -	1.97	-0.09	-218.52	-457.0	-981.3	10.4
	SLE Frequenti +	2.00	0.11	-216.10	-389.1	-964.6	10.5
	SLE Quasi Permanenti -	1.97	-0.02	-216.10	-430.5	-964.6	10.4
	SLE Quasi Permanenti +	1.97	-0.02	-216.10	-430.5	-964.6	10.4
	SLD -	-1.19	-4.56	-229.26	-1264.0	-1571.2	-9.4
	SLD +	5.29	5.57	-210.73	734.3	-363.2	30.9
28	SLU Statiche -	0.33	-0.05	-465.27	-468.9	-698.9	15.9
	SLU Statiche +	0.65	0.18	-445.22	-438.1	-659.5	16.3
	SLV -	-6.03	-6.89	-315.90	-1528.0	-1622.3	-34.6
	SLV +	7.04	6.68	-314.18	823.7	601.7	57.9
	SLE Rare -	0.34	-0.03	-328.84	-340.5	-505.3	11.5
	SLE Rare +	0.45	0.04	-325.93	-328.7	-488.0	11.8
	SLE Frequenti -	0.33	-0.05	-318.94	-344.3	-493.0	11.2
	SLE Frequenti +	0.39	0.00	-314.91	-337.9	-484.5	11.3
	SLE Quasi Permanenti -	0.36	-0.03	-314.91	-341.7	-487.2	11.2
	SLE Quasi Permanenti +	0.36	-0.03	-314.91	-341.7	-487.2	11.2
	SLD -	-2.27	-2.99	-315.41	-852.8	-982.7	-8.1
	SLD +	3.28	2.78	-314.67	148.5	-37.9	31.3
29	SLU Statiche -	3.62	0.63	-258.38	-471.5	-1658.2	13.6
	SLU Statiche +	3.76	1.42	-251.94	-201.0	-1605.3	14.0
	SLV -	-4.06	-12.37	-208.25	-2800.6	-2292.2	-36.3
	SLV +	9.33	14.66	-150.72	2595.4	2.1	56.5
	SLE Rare -	2.60	0.70	-185.42	-252.8	-1188.4	9.9
	SLE Rare +	2.74	1.05	-182.63	-140.3	-1163.2	10.2
	SLE Frequenti -	2.45	0.62	-177.61	-273.0	-1125.7	9.7
	SLE Frequenti +	2.50	0.79	-175.76	-215.1	-1111.5	9.8
	SLE Quasi Permanenti -	2.45	0.67	-175.76	-252.6	-1111.5	9.7
	SLE Quasi Permanenti +	2.45	0.67	-175.76	-252.6	-1111.5	9.7
	SLD -	-0.21	-4.61	-191.71	-1251.9	-1632.0	-9.7
	SLD +	5.47	6.90	-167.26	1046.7	-658.2	29.9
30	SLU Statiche -	-0.10	0.07	-448.79	-494.6	-605.9	13.9
	SLU Statiche +	0.22	0.30	-429.62	-463.6	-567.4	14.3
	SLV -	-6.84	-6.83	-306.70	-1418.3	-1688.4	-36.8
	SLV +	7.17	6.79	-301.17	677.9	817.7	57.5
	SLE Rare -	0.01	0.06	-317.17	-357.5	-436.8	10.2
	SLE Rare +	0.13	0.12	-314.36	-348.4	-416.6	10.4
	SLE Frequenti -	-0.02	0.03	-307.64	-364.7	-415.2	10.0
	SLE Frequenti +	0.05	0.08	-303.77	-358.3	-406.8	10.1
	SLE Quasi Permanenti -	0.01	0.04	-303.77	-362.9	-408.5	10.0
	SLE Quasi Permanenti +	0.01	0.04	-303.77	-362.9	-408.5	10.0
	SLD -	-2.81	-2.92	-305.11	-816.7	-967.4	-9.7
	SLD +	3.14	2.88	-302.77	76.3	96.8	30.5
31	SLU Statiche -	-2.74	1.06	-538.68	-93.2	124.2	16.7
	SLU Statiche +	-2.36	1.34	-516.23	-49.5	182.6	17.1
	SLV -	-7.18	-4.29	-405.66	-783.8	-749.8	-33.1
	SLV +	4.02	5.58	-328.32	591.8	865.6	57.6
	SLE Rare -	-1.85	0.75	-381.03	-74.7	83.9	12.2
	SLE Rare +	-1.71	0.86	-378.13	-51.8	112.2	12.5
	SLE Frequenti -	-1.76	0.72	-371.95	-84.0	74.0	11.9
	SLE Frequenti +	-1.68	0.78	-367.45	-74.8	86.3	12.0

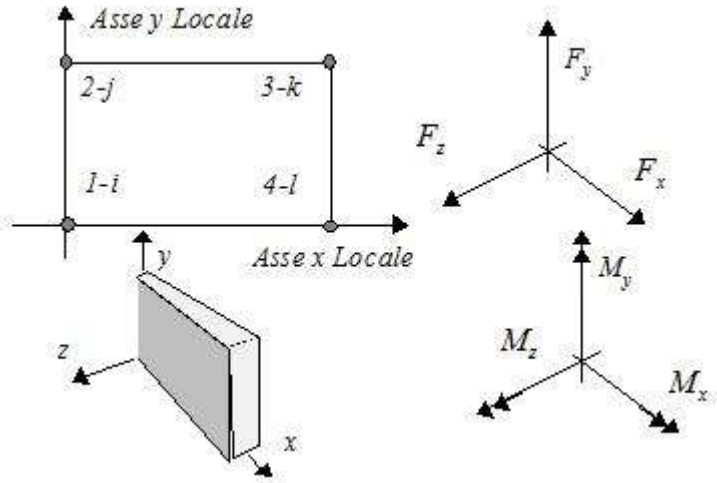
Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
	SLE Quasi Permanenti -	-1.72	0.75	-367.60	-80.0	79.4	11.9
	SLE Quasi Permanenti +	-1.72	0.75	-367.60	-80.0	79.4	11.9
	SLD -	-3.95	-1.45	-383.38	-388.5	-284.7	-7.1
	SLD +	0.79	2.74	-350.60	196.6	400.6	31.5
32	SLU Statiche -	1.74	0.58	-406.29	-402.8	-1129.6	11.1
	SLU Statiche +	1.89	0.83	-389.29	-364.7	-1101.0	11.5
	SLV -	-5.98	-7.13	-284.08	-1381.7	-2132.2	-39.2
	SLV +	8.63	7.85	-266.55	783.7	547.3	56.1
	SLE Rare -	1.25	0.44	-287.25	-287.3	-819.2	8.1
	SLE Rare +	1.37	0.49	-284.65	-280.3	-797.1	8.4
	SLE Frequenti -	1.16	0.41	-278.53	-292.4	-771.3	8.1
	SLE Frequenti +	1.20	0.46	-275.08	-284.5	-763.0	8.2
	SLE Quasi Permanenti -	1.16	0.43	-275.08	-290.2	-763.0	8.1
	SLE Quasi Permanenti +	1.16	0.43	-275.08	-290.2	-763.0	8.1
	SLD -	-1.78	-2.83	-279.03	-760.1	-1361.2	-11.9
	SLD +	4.42	3.55	-271.60	162.1	-223.7	28.8
33	SLU Statiche -	2.94	-0.43	-329.12	-742.3	-1519.3	7.1
	SLU Statiche +	3.06	-0.30	-316.31	-740.8	-1458.5	7.7
	SLV -	-4.59	-8.88	-246.51	-1751.7	-2219.4	-44.3
	SLV +	8.90	8.26	-200.35	695.1	131.4	56.0
	SLE Rare -	2.14	-0.30	-233.06	-537.5	-1084.2	5.3
	SLE Rare +	2.25	-0.26	-230.74	-531.5	-1066.4	5.7
	SLE Frequenti -	2.01	-0.27	-225.63	-522.9	-1035.1	5.5
	SLE Frequenti +	2.05	-0.24	-222.96	-520.4	-1020.3	5.6
	SLE Quasi Permanenti -	2.01	-0.25	-222.96	-520.4	-1020.3	5.5
	SLE Quasi Permanenti +	2.01	-0.25	-222.96	-520.4	-1020.3	5.5
	SLD -	-0.71	-3.96	-233.24	-1048.9	-1543.0	-15.5
	SLD +	5.02	3.34	-213.63	-7.6	-545.0	27.2
34	SLU Statiche -	-2.12	1.74	-523.70	22.1	-78.9	15.3
	SLU Statiche +	-1.79	2.03	-502.25	68.4	-37.1	15.7
	SLV -	-7.50	-3.72	-400.94	-588.4	-1054.2	-35.3
	SLV +	5.06	5.95	-312.66	556.1	904.4	58.1
	SLE Rare -	-1.42	1.24	-370.48	8.5	-62.1	11.2
	SLE Rare +	-1.31	1.35	-367.66	30.3	-40.0	11.5
	SLE Frequenti -	-1.39	1.18	-361.44	-6.3	-58.6	11.1
	SLE Frequenti +	-1.32	1.24	-357.14	3.2	-49.7	11.2
	SLE Quasi Permanenti -	-1.36	1.20	-357.25	-3.1	-53.2	11.1
	SLE Quasi Permanenti +	-1.36	1.20	-357.25	-3.1	-53.2	11.1
	SLD -	-3.88	-0.94	-375.57	-259.6	-490.1	-8.5
	SLD +	1.44	3.17	-338.03	227.3	340.3	31.3
35	SLU Statiche -	-0.80	1.92	-480.24	-4.9	-441.2	9.8
	SLU Statiche +	-0.57	2.18	-461.11	34.0	-417.7	10.4
	SLV -	-7.18	-4.23	-376.36	-584.9	-1419.2	-41.0
	SLV +	6.40	6.77	-278.08	524.5	775.1	56.5
	SLE Rare -	-0.51	1.37	-339.88	-10.9	-326.2	7.2
	SLE Rare +	-0.41	1.46	-337.26	7.0	-309.9	7.6
	SLE Frequenti -	-0.54	1.32	-331.19	-21.4	-305.7	7.4
	SLE Frequenti +	-0.49	1.38	-327.36	-13.4	-300.3	7.5
	SLE Quasi Permanenti -	-0.52	1.34	-327.41	-18.5	-300.3	7.4
	SLE Quasi Permanenti +	-0.52	1.34	-327.41	-18.5	-300.3	7.4
	SLD -	-3.27	-1.07	-348.15	-266.4	-787.1	-13.0
	SLD +	2.49	3.61	-306.29	205.9	143.1	28.5

Nodo	Comb.	Tx [kN]	Ty [kN]	N [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
36	SLU Statiche -	0.98	1.79	-400.09	-100.3	-929.2	5.3
	SLU Statiche +	1.12	1.96	-384.83	-83.5	-906.2	6.3
	SLV -	-5.93	-5.70	-316.20	-839.4	-1740.8	-40.5
	SLV +	7.54	8.14	-228.79	665.8	416.2	50.1
	SLE Rare -	0.73	1.27	-283.35	-81.7	-678.8	4.1
	SLE Rare +	0.83	1.34	-280.95	-70.5	-663.5	4.5
	SLE Frequenti -	0.68	1.27	-275.39	-79.5	-647.7	4.3
	SLE Frequenti +	0.71	1.30	-272.29	-75.5	-641.9	4.5
	SLE Quasi Permanenti -	0.68	1.28	-272.29	-77.0	-641.9	4.5
	SLE Quasi Permanenti +	0.68	1.28	-272.29	-77.0	-641.9	4.5
	SLD -	-2.05	-1.73	-291.12	-407.0	-1119.5	-14.5
	SLD +	3.66	4.17	-253.86	233.3	-205.1	24.1

Sollecitazioni nei setti

Convenzioni adottate

L'elemento parete viene individuato tramite il numero dei due nodi a numerazione più bassa cui fa capo l'elemento. La numerazione dei nodi e le convenzioni sulle sollecitazioni agenti nel setto sono le seguenti:



Dove:

F_x, F_y, F_z
forze, agenti nel generico nodo, in direzione degli assi locali **x**, **y**, **z**.

M_x, M_y, M_z
momenti agenti nel generico nodo ed aventi asse vettore concorde con gli assi locali **x**, **y**, **z**.

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
SLU Statiche -	2	51.89	80.47	0.76	115.8	-46.6	-1586.3
	38	6.40	-35.83	-2.77	-19.2	244.3	-11.2
	37	-24.05	-36.45	-4.73	1256.6	324.8	-1268.3
	1	-37.12	55.64	6.21	1305.8	-2.2	-1.0
SLU Statiche +	2	54.15	83.32	0.84	127.4	-41.6	-1346.9
	38	7.07	-32.54	-2.69	-14.1	253.0	4.3
	37	-22.94	-34.90	-4.32	1338.0	337.1	-1169.1
	1	-35.76	56.88	6.64	1390.0	4.4	27.2
SLV -	2	-3.42	11.33	-3.78	-81.3	-506.4	-3487.1
	38	-10.29	-28.46	-10.75	-431.1	-897.9	-428.3

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	37	-37.13	-36.11	-13.73	763.5	-1266.6	-1749.1
	1	-30.33	13.91	1.56	810.8	-669.7	-480.3
SLV +	2	75.41	101.75	5.02	253.8	430.5	1666.7
	38	19.84	-14.27	7.14	420.3	1219.8	375.9
	37	5.12	-11.02	7.36	1017.4	1691.1	85.1
	1	-19.19	67.36	7.18	1038.5	651.6	458.0
SLE Rare -	2	38.24	58.93	0.60	91.5	-35.4	-1046.3
	38	4.78	-25.30	-1.97	-7.8	168.4	-20.5
	37	-17.58	-26.52	-3.39	941.0	222.6	-896.7
	1	-26.99	41.63	4.65	977.1	-4.4	-40.4
SLE Rare +	2	39.60	61.61	0.62	92.2	-32.1	-993.7
	38	4.97	-23.08	-1.90	-5.9	176.1	-9.2
	37	-17.01	-25.28	-3.36	959.1	233.6	-873.3
	1	-26.01	42.46	4.77	996.1	0.0	-21.6
SLE Frequenti -	2	35.89	55.50	0.61	86.0	-37.3	-1000.0
	38	4.68	-21.55	-1.81	-5.5	158.3	-34.5
	37	-16.21	-23.78	-3.28	890.1	208.6	-865.8
	1	-25.05	40.68	4.37	924.2	-8.8	-27.5
SLE Frequenti +	2	36.44	56.57	0.62	88.3	-36.0	-950.8
	38	4.83	-20.66	-1.78	-4.3	161.4	-29.9
	37	-15.99	-23.28	-3.20	906.5	213.0	-845.5
	1	-24.66	41.01	4.46	941.2	-7.0	-20.7
SLE Quasi Permanenti -	2	35.89	55.50	0.61	86.0	-37.1	-964.3
	38	4.75	-20.66	-1.78	-4.7	158.3	-34.5
	37	-15.99	-23.28	-3.21	890.1	208.6	-850.1
	1	-24.66	40.70	4.37	924.2	-8.7	-23.8
SLE Quasi Permanenti +	2	35.89	55.50	0.61	86.0	-37.1	-964.3
	38	4.75	-20.66	-1.78	-4.7	158.3	-34.5
	37	-15.99	-23.28	-3.21	890.1	208.6	-850.1
	1	-24.66	40.70	4.37	924.2	-8.7	-23.8
SLD -	2	19.24	37.33	-1.25	14.9	-237.5	-2006.5
	38	-1.62	-24.37	-5.62	-186.7	-290.0	-196.6
	37	-25.00	-28.89	-7.67	836.6	-417.6	-1222.2
	1	-27.12	29.27	3.17	876.4	-290.5	-210.5
SLD +	2	52.75	75.76	2.49	157.6	161.6	186.1
	38	11.17	-18.36	2.00	175.9	611.9	144.2
	37	-7.01	-18.24	1.31	944.3	842.1	-441.8
	1	-22.40	52.00	5.56	972.9	272.4	188.2
SLU Statiche -	1	44.16	96.59	4.53	1176.2	157.0	-149.7
	37	1.07	29.28	-3.24	1151.8	-403.3	1250.5
	39	-57.22	-67.37	-9.68	1101.2	-340.4	-490.3
	5	8.69	-11.35	7.42	1114.1	184.7	601.9
SLU Statiche +	1	46.43	100.78	4.77	1254.5	179.0	-110.0
	37	1.25	31.03	-2.69	1229.3	-388.5	1332.0
	39	-53.94	-63.46	-9.13	1206.4	-325.3	-464.0
	5	9.54	-9.31	8.15	1220.2	207.4	671.3
SLV -	1	24.85	48.54	-0.91	522.2	-521.0	-620.2
	37	-8.01	-0.69	-19.98	493.2	-2034.5	743.1
	39	-44.50	-61.99	-21.17	516.3	-1865.9	-975.6
	5	-2.74	-24.92	-1.52	530.5	-445.4	-35.5
SLV +	1	37.46	89.62	7.75	1245.6	759.9	501.5
	37	10.08	41.24	15.05	1240.1	1527.5	1030.1
	39	-30.81	-25.54	8.11	1141.4	1445.3	299.8
	5	13.67	15.44	12.66	1145.7	722.4	864.4
SLE Rare -	1	32.58	71.73	3.43	889.4	119.2	-78.7

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	37	0.96	21.53	-2.47	871.5	-279.4	937.1
	39	-40.46	-47.44	-6.90	854.9	-233.3	-343.8
	5	6.08	-6.62	5.72	864.5	139.4	452.5
SLE Rare +	1	33.10	72.74	3.50	904.5	123.0	-70.7
	37	1.04	22.17	-2.27	886.7	-266.1	955.1
	39	-39.70	-46.38	-6.80	866.7	-220.8	-338.7
	5	6.40	-6.03	5.80	876.4	142.9	465.5
SLE Frequenti -	1	31.13	69.00	3.48	895.8	119.0	-75.3
	37	1.08	19.97	-2.65	878.5	-254.2	886.1
	39	-38.23	-44.53	-6.67	840.6	-210.8	-339.4
	5	5.32	-4.86	5.63	850.0	138.1	405.3
SLE Frequenti +	1	31.59	69.86	3.53	913.0	123.8	-67.1
	37	1.12	20.39	-2.52	895.5	-248.9	902.5
	39	-37.56	-43.74	-6.56	862.0	-205.8	-333.8
	5	5.52	-4.38	5.79	871.6	143.0	421.2
SLE Quasi Permanenti -	1	31.13	69.00	3.51	901.9	120.6	-69.7
	37	1.11	19.97	-2.60	884.6	-248.9	886.1
	39	-37.56	-43.74	-6.57	844.5	-205.8	-335.0
	5	5.32	-4.38	5.66	853.9	139.5	405.3
SLE Quasi Permanenti +	1	31.13	69.00	3.51	901.9	120.6	-69.7
	37	1.11	19.97	-2.60	884.6	-248.9	886.1
	39	-37.56	-43.74	-6.57	844.5	-205.8	-335.0
	5	5.32	-4.38	5.66	853.9	139.5	405.3
SLD -	1	28.47	60.32	1.58	729.8	-153.3	-298.2
	37	-2.81	11.37	-9.92	707.5	-1012.1	825.6
	39	-40.56	-51.53	-12.76	695.6	-915.4	-609.1
	5	1.98	-13.30	2.55	707.0	-110.2	222.9
SLD +	1	33.84	77.83	5.26	1038.0	392.2	179.5
	37	4.88	29.18	5.00	1025.8	505.1	947.5
	39	-34.75	-35.99	-0.29	962.0	494.8	-66.7
	5	8.94	3.82	8.59	969.2	387.2	606.0
SLU Statiche -	6	16.65	26.73	-0.45	-14.6	11.6	-1788.3
	40	30.78	-44.70	-3.98	-127.0	429.3	-666.9
	39	-14.84	11.26	-3.47	1388.7	618.5	-2404.8
	5	-36.19	63.48	7.46	1425.3	103.2	-873.0
SLU Statiche +	6	18.53	35.19	-0.37	-10.5	20.5	-1458.9
	40	32.50	-37.87	-3.84	-124.1	442.7	-623.8
	39	-13.97	15.07	-3.20	1465.3	637.9	-2200.0
	5	-33.72	66.17	7.82	1503.6	111.7	-847.7
SLV -	6	-31.43	-21.59	-7.10	-192.8	-744.7	-3780.1
	40	6.82	-32.24	-15.59	-547.2	-1201.3	-759.9
	39	-28.70	-7.76	-14.89	476.5	-1732.7	-2680.3
	5	-32.16	28.72	-2.30	414.3	-977.4	-902.8
SLV +	6	53.80	63.16	6.53	166.6	764.5	1683.2
	40	34.61	-15.17	10.42	374.2	1783.7	-150.5
	39	9.77	28.81	10.55	1404.7	2570.8	-484.6
	5	-12.71	60.57	12.38	1516.2	1116.8	-353.3
SLE Rare -	6	12.14	21.45	-0.31	-11.4	9.7	-1180.1
	40	22.36	-30.55	-2.83	-91.4	306.1	-477.7
	39	-10.70	9.72	-2.32	992.4	440.7	-1691.9
	5	-26.10	46.73	5.31	1018.5	72.7	-648.7
SLE Rare +	6	13.22	24.40	-0.29	-10.7	12.6	-1139.9
	40	23.58	-26.64	-2.73	-89.3	316.4	-474.1
	39	-10.12	10.70	-2.30	1016.1	455.7	-1661.6
	5	-24.36	48.68	5.46	1042.9	77.7	-636.7

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
SLE Frequenti -	6	11.15	19.09	-0.29	-14.0	7.4	-1155.9
	40	20.62	-24.48	-2.59	-87.1	288.4	-465.1
	39	-9.73	10.44	-2.21	932.5	415.1	-1644.8
	5	-23.00	44.44	4.99	956.8	67.3	-632.4
SLE Frequenti +	6	11.63	21.08	-0.27	-13.0	9.5	-1088.7
	40	21.10	-22.73	-2.55	-86.2	292.5	-456.4
	39	-9.50	11.30	-2.15	949.6	421.1	-1603.2
	5	-22.31	45.22	5.07	974.4	69.5	-626.1
SLE Quasi Permanenti -	6	11.21	19.90	-0.28	-14.0	8.3	-1102.1
	40	20.62	-22.92	-2.55	-86.2	288.4	-456.8
	39	-9.52	10.83	-2.15	932.5	415.1	-1610.1
	5	-22.31	44.44	4.99	956.8	67.5	-627.6
SLE Quasi Permanenti +	6	11.21	19.90	-0.28	-14.0	8.3	-1102.1
	40	20.62	-22.92	-2.55	-86.2	288.4	-456.8
	39	-9.52	10.83	-2.15	932.5	415.1	-1610.1
	5	-22.31	44.44	4.99	956.8	67.5	-627.6
SLD -	6	-6.93	2.78	-3.19	-89.5	-311.5	-2210.2
	40	14.80	-27.33	-8.13	-282.7	-344.5	-584.9
	39	-17.64	2.76	-7.59	743.6	-497.4	-2049.4
	5	-26.57	37.87	1.92	731.2	-376.3	-744.9
SLD +	6	29.30	38.79	2.62	63.3	331.4	113.3
	40	26.62	-20.07	2.96	109.8	926.9	-325.5
	39	-1.30	18.28	3.25	1137.7	1335.6	-1115.5
	5	-18.29	51.42	8.17	1199.3	515.7	-511.2
SLU Statiche -	5	37.66	72.04	8.20	1615.4	20.5	-1731.6
	39	41.35	27.48	-5.09	1605.1	-454.7	1843.4
	41	-87.38	-44.29	-15.86	2093.2	-445.7	-1818.9
	9	3.97	-2.30	11.33	2111.0	18.6	1775.0
SLU Statiche +	5	39.22	73.96	8.87	1752.3	25.8	-1585.2
	39	44.10	28.20	-4.58	1741.2	-429.4	1938.2
	41	-82.98	-42.39	-14.94	2225.0	-422.0	-1711.1
	9	4.15	-1.53	12.08	2243.7	24.2	1900.6
SLV -	5	14.11	26.57	3.69	920.4	-326.7	-2249.3
	39	10.85	-3.79	-13.24	914.3	-1277.5	470.6
	41	-78.16	-54.30	-19.42	1276.6	-1360.6	-2612.9
	9	-9.40	-22.10	4.36	1289.2	-365.6	104.2
SLV +	5	37.48	74.67	8.33	1421.9	340.4	113.7
	39	46.95	40.97	6.41	1412.9	673.3	2062.4
	41	-35.33	-1.78	-1.73	1690.9	768.9	234.6
	9	13.50	25.27	11.59	1703.4	377.7	2237.4
SLE Rare -	5	26.88	52.20	6.19	1215.8	12.0	-1179.8
	39	30.55	19.09	-3.57	1208.1	-323.8	1321.6
	41	-60.96	-30.53	-11.04	1526.0	-318.0	-1267.8
	9	2.25	0.79	8.25	1538.7	11.0	1242.4
SLE Rare +	5	27.40	53.08	6.26	1227.3	15.6	-1151.5
	39	31.13	19.41	-3.49	1219.6	-317.9	1342.1
	41	-59.68	-29.64	-10.94	1538.0	-311.6	-1248.2
	9	2.44	1.10	8.32	1550.9	14.2	1268.2
SLE Frequenti -	5	25.57	50.41	6.09	1182.7	4.9	-1089.2
	39	28.82	18.23	-3.58	1175.1	-306.8	1255.3
	41	-57.32	-28.28	-10.82	1495.8	-300.2	-1201.2
	9	1.96	1.72	8.02	1508.5	4.1	1156.3
SLE Frequenti +	5	25.93	50.84	6.22	1210.4	6.4	-1057.6
	39	29.39	18.46	-3.47	1202.7	-301.6	1276.8
	41	-56.35	-27.85	-10.63	1522.6	-295.3	-1176.9

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	9	2.03	1.95	8.17	1535.4	5.7	1184.7
SLE Quasi Permanenti -	5	25.57	50.41	6.11	1186.5	4.9	-1057.6
	39	28.82	18.23	-3.50	1178.9	-301.6	1255.3
	41	-56.35	-27.85	-10.65	1499.9	-295.3	-1176.9
	9	1.96	1.95	8.04	1512.6	4.1	1156.3
SLE Quasi Permanenti +	5	25.57	50.41	6.11	1186.5	4.9	-1057.6
	39	28.82	18.23	-3.50	1178.9	-301.6	1255.3
	41	-56.35	-27.85	-10.65	1499.9	-295.3	-1176.9
	9	1.96	1.95	8.04	1512.6	4.1	1156.3
SLD -	5	20.85	40.38	5.03	1064.4	-135.2	-1570.1
	39	21.21	9.10	-7.60	1057.6	-717.6	928.9
	41	-65.82	-39.22	-14.34	1395.8	-749.4	-1794.5
	9	-2.82	-8.45	6.43	1408.4	-152.3	718.0
SLD +	5	30.75	60.85	7.00	1277.8	149.0	-565.5
	39	36.59	28.08	0.77	1269.7	113.4	1604.1
	41	-47.67	-16.86	-6.81	1571.7	157.6	-583.8
	9	6.92	11.62	9.51	1584.2	164.4	1623.6
SLU Statiche -	18	25.81	41.23	-14.08	-2721.2	-50.8	-2135.1
	44	78.53	-2.43	15.72	-2694.2	-298.9	2891.6
	41	-81.00	-7.88	13.09	-3023.9	-288.9	-1962.3
	9	-28.30	38.47	-16.15	-3048.7	-44.9	2740.4
SLU Statiche +	18	26.97	42.07	-13.40	-2595.1	-48.5	-1992.7
	44	82.32	-1.66	16.44	-2569.2	-290.9	3024.2
	41	-76.90	-6.92	13.79	-2879.7	-281.9	-1869.3
	9	-27.43	39.24	-15.41	-2903.5	-42.5	2900.4
SLV -	18	7.42	9.09	-11.96	-2022.3	-296.2	-3112.7
	44	16.90	-18.12	4.81	-2005.9	-1120.9	297.0
	41	-76.97	-25.62	2.76	-2222.8	-1101.4	-2819.0
	9	-34.16	6.81	-12.42	-2238.7	-287.4	58.0
SLV +	18	29.71	54.01	-6.75	-1620.1	208.3	590.8
	44	88.24	18.51	17.16	-1600.2	728.4	3651.9
	41	-28.36	15.53	15.72	-1820.3	722.4	288.7
	9	-2.79	49.20	-9.32	-1837.8	207.9	3503.2
SLE Rare -	18	19.12	31.78	-9.63	-1871.2	-41.4	-1393.1
	44	55.49	-1.07	11.25	-1852.6	-210.8	2055.7
	41	-56.55	-5.69	9.38	-2078.9	-203.6	-1360.2
	9	-19.81	28.74	-11.15	-2095.9	-36.9	1880.8
SLE Rare +	18	19.26	32.09	-9.57	-1857.8	-39.4	-1351.3
	44	57.09	-0.47	11.32	-1839.3	-204.7	2091.5
	41	-55.38	-5.37	9.48	-2063.3	-197.5	-1327.8
	9	-19.26	29.38	-11.07	-2080.2	-34.8	1924.0
SLE Frequenti -	18	18.60	31.82	-9.56	-1860.2	-44.6	-1267.8
	44	51.86	0.08	11.04	-1841.7	-195.6	1949.3
	41	-53.22	-5.48	9.34	-2066.5	-188.8	-1265.7
	9	-18.40	27.84	-11.11	-2083.5	-40.4	1757.2
SLE Frequenti +	18	18.83	32.00	-9.42	-1834.6	-43.8	-1233.0
	44	52.78	0.33	11.18	-1816.3	-193.2	1981.5
	41	-52.32	-5.28	9.48	-2037.2	-186.3	-1241.8
	9	-18.15	28.09	-10.96	-2053.9	-39.6	1794.5
SLE Quasi Permanenti -	18	18.61	31.91	-9.44	-1839.0	-44.6	-1233.0
	44	51.86	0.33	11.05	-1820.7	-193.2	1949.3
	41	-52.32	-5.36	9.37	-2042.4	-186.3	-1241.8
	9	-18.15	27.84	-10.98	-2059.2	-40.4	1757.2
SLE Quasi Permanenti +	18	18.61	31.91	-9.44	-1839.0	-44.6	-1233.0
	44	51.86	0.33	11.05	-1820.7	-193.2	1949.3

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	41	-52.32	-5.36	9.37	-2042.4	-186.3	-1241.8
	9	-18.15	27.84	-10.98	-2059.2	-40.4	1757.2
SLD -	18	13.82	22.03	-10.46	-1906.5	-151.3	-2046.7
	44	37.46	-7.61	8.35	-1889.1	-590.1	1262.9
	41	-62.99	-13.77	6.48	-2107.1	-577.9	-1924.7
	9	-25.12	18.98	-11.53	-2123.4	-145.1	1049.8
SLD +	18	23.31	41.07	-8.24	-1735.9	63.4	-475.2
	44	67.69	8.00	13.61	-1717.0	197.5	2686.0
	41	-42.35	3.68	12.00	-1936.1	198.9	-605.6
	9	-11.82	37.03	-10.21	-1953.1	65.6	2511.4
SLU Statiche -	10	37.63	20.03	-0.33	-191.9	-98.1	-4884.2
	42	31.83	-39.70	-3.19	-213.3	431.3	-479.8
	41	-23.59	22.90	1.16	548.0	606.8	-4246.4
	9	-49.37	53.84	2.20	561.8	-20.1	332.4
SLU Statiche +	10	39.56	28.25	-0.30	-183.2	-90.0	-4516.3
	42	33.39	-32.82	-3.06	-204.5	449.8	-446.4
	41	-22.69	26.62	1.31	556.7	633.2	-4015.2
	9	-46.77	56.47	2.24	571.1	-15.2	361.1
SLV -	10	-13.53	-25.15	-4.81	-249.1	-657.5	-5433.0
	42	4.55	-28.65	-13.64	-413.3	-960.0	-718.0
	41	-30.96	-0.46	-8.96	-217.0	-1320.7	-3597.5
	9	-39.41	21.89	-5.05	-287.6	-823.7	-23.6
SLV +	10	65.08	58.92	4.22	-19.9	542.2	-789.6
	42	37.61	-11.81	9.51	122.2	1554.6	66.4
	41	-0.41	35.96	10.84	917.7	2156.9	-2006.3
	9	-22.92	53.80	7.91	1005.5	810.8	393.6
SLE Rare -	10	26.77	17.80	-0.28	-138.7	-66.8	-3261.8
	42	22.54	-27.14	-2.25	-153.0	311.8	-339.8
	41	-16.77	16.93	1.00	361.7	438.6	-2919.3
	9	-34.96	39.82	1.44	371.0	-11.6	164.4
SLE Rare +	10	28.06	20.70	-0.26	-138.1	-63.4	-3201.3
	42	23.67	-23.22	-2.18	-151.0	319.6	-337.5
	41	-16.17	17.86	1.03	373.6	449.6	-2882.4
	9	-33.20	41.76	1.48	383.5	-9.3	176.8
SLE Frequenti -	10	26.05	15.53	-0.30	-136.6	-59.9	-3247.4
	42	20.96	-21.10	-2.08	-147.1	294.9	-334.8
	41	-16.12	17.52	0.95	342.2	414.8	-2879.7
	9	-31.83	37.59	1.38	350.6	-8.4	180.2
SLE Frequenti +	10	26.55	17.46	-0.29	-134.9	-58.3	-3171.8
	42	21.41	-19.34	-2.05	-145.2	299.1	-328.1
	41	-15.90	18.36	0.98	347.0	420.8	-2832.4
	9	-31.13	38.37	1.40	355.6	-7.4	187.2
SLE Quasi Permanenti -	10	26.14	16.30	-0.29	-135.0	-58.5	-3191.9
	42	20.96	-19.54	-2.05	-145.2	294.9	-328.8
	41	-15.97	17.89	0.96	342.2	414.8	-2842.6
	9	-31.13	37.59	1.38	350.6	-7.7	185.2
SLE Quasi Permanenti +	10	26.14	16.30	-0.29	-135.0	-58.5	-3191.9
	42	20.96	-19.54	-2.05	-145.2	294.9	-328.8
	41	-15.97	17.89	0.96	342.2	414.8	-2842.6
	9	-31.13	37.59	1.38	350.6	-7.7	185.2
SLD -	10	9.04	-1.01	-2.22	-183.2	-313.2	-4099.6
	42	14.04	-23.81	-7.00	-259.6	-238.2	-492.6
	41	-22.19	9.99	-3.28	109.4	-322.5	-3140.5
	9	-34.68	31.05	-1.33	84.3	-354.6	96.5
SLD +	10	42.51	34.79	1.62	-85.8	197.9	-2123.0

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	42	28.12	-16.64	2.86	-31.5	832.8	-159.0
	41	-9.19	25.51	5.16	591.3	1158.8	-2463.3
	9	-27.66	44.64	4.19	633.7	341.7	273.5
SLU Statiche -	16	64.17	55.88	-1.54	-208.9	69.1	-5421.1
	43	13.28	-41.35	-1.33	-177.3	253.2	140.0
	44	-28.48	1.80	5.39	-610.9	343.5	-4297.9
	18	-52.47	42.20	-2.70	-615.3	103.7	328.2
SLU Statiche +	16	66.44	62.58	-1.51	-201.8	70.6	-5077.9
	43	14.51	-34.83	-1.29	-171.5	261.0	143.5
	44	-27.63	4.67	5.57	-588.5	354.0	-4098.1
	18	-49.87	44.90	-2.58	-592.5	104.6	361.3
SLV -	16	19.67	13.08	-4.50	-319.6	-442.5	-4975.2
	43	-4.16	-28.57	-12.32	-344.4	-1022.2	-255.3
	44	-26.94	-6.72	-5.37	-953.4	-1432.9	-3273.9
	18	-39.57	19.11	-7.62	-1049.9	-635.2	103.5
SLV +	16	69.19	68.35	2.29	31.1	550.2	-2040.7
	43	20.81	-14.34	10.59	101.9	1371.7	421.8
	44	-11.86	12.89	13.05	92.6	1906.1	-2451.6
	18	-27.15	40.69	3.88	182.2	789.1	286.6
SLE Rare -	16	46.10	42.71	-1.11	-148.1	51.5	-3652.8
	43	9.12	-28.42	-0.94	-125.8	181.2	88.2
	44	-20.34	1.49	3.91	-436.1	245.4	-2958.7
	18	-37.22	31.52	-1.91	-439.4	76.3	171.9
SLE Rare +	16	47.61	45.88	-1.11	-147.5	52.5	-3598.3
	43	9.95	-24.55	-0.91	-124.6	185.0	93.5
	44	-19.77	2.57	3.94	-431.0	250.8	-2926.3
	18	-35.45	33.31	-1.88	-434.1	76.8	186.4
SLE Frequenti -	16	44.69	39.80	-1.11	-145.8	53.3	-3633.0
	43	8.27	-22.34	-0.86	-122.1	173.1	79.2
	44	-19.86	2.75	3.85	-439.7	234.3	-2934.2
	18	-34.02	29.67	-1.92	-443.3	76.3	191.1
SLE Frequenti +	16	45.27	41.45	-1.10	-144.4	53.7	-3562.6
	43	8.60	-20.65	-0.85	-120.9	175.0	81.3
	44	-19.65	3.43	3.89	-434.8	236.9	-2893.2
	18	-33.31	30.39	-1.89	-438.2	76.5	199.2
SLE Quasi Permanenti -	16	44.77	40.19	-1.10	-144.5	53.6	-3580.7
	43	8.27	-20.79	-0.85	-120.9	173.1	79.2
	44	-19.74	3.18	3.86	-436.8	234.3	-2903.4
	18	-33.31	29.67	-1.90	-440.4	76.3	196.9
SLE Quasi Permanenti +	16	44.77	40.19	-1.10	-144.5	53.6	-3580.7
	43	8.27	-20.79	-0.85	-120.9	173.1	79.2
	44	-19.74	3.18	3.86	-436.8	234.3	-2903.4
	18	-33.31	29.67	-1.90	-440.4	76.3	196.9
SLD -	16	33.92	28.99	-2.55	-218.9	-157.6	-4131.9
	43	3.03	-24.47	-5.75	-216.3	-335.1	-60.3
	44	-22.61	-1.08	-0.08	-652.8	-474.6	-3037.8
	18	-36.00	25.32	-4.31	-695.9	-226.4	156.2
SLD +	16	54.94	52.45	0.34	-69.5	265.3	-2884.0
	43	13.63	-18.44	4.02	-26.2	684.6	226.8
	44	-16.18	7.25	7.76	-208.0	947.8	-2687.7
	18	-30.73	34.48	0.58	-171.8	380.3	233.9
SLU Statiche -	26	36.47	56.70	-12.08	-2537.9	-188.6	-1662.5
	46	55.51	6.14	13.61	-2506.9	-117.8	2198.0
	44	-81.17	-20.86	12.33	-2620.9	-122.7	-2393.6

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	18	-15.30	27.49	-15.07	-2650.6	-192.2	1347.7
SLU Statiche +	26	37.90	57.80	-11.52	-2423.8	-182.6	-1538.2
	46	58.58	6.75	14.24	-2394.0	-113.7	2311.3
	44	-77.36	-19.81	12.91	-2504.6	-118.3	-2282.8
	18	-14.61	28.09	-14.42	-2533.2	-186.1	1475.2
SLV -	26	13.37	23.21	-10.74	-1846.5	-448.2	-3101.5
	46	-5.87	-11.02	2.05	-1827.5	-1188.7	-507.5
	44	-88.74	-30.31	0.45	-1939.5	-1189.7	-3389.5
	18	-24.95	2.26	-11.81	-1957.4	-449.8	-1437.7
SLV +	26	37.53	60.52	-5.42	-1567.4	181.8	1276.2
	46	78.21	22.07	17.15	-1544.6	1024.4	3432.0
	44	-15.04	3.20	16.90	-1591.1	1018.9	332.3
	18	5.48	39.48	-8.57	-1613.4	178.4	2989.0
SLE Rare -	26	26.33	42.45	-8.30	-1750.6	-134.6	-1052.4
	46	38.80	4.68	9.78	-1729.2	-84.2	1542.4
	44	-56.29	-14.57	8.83	-1809.8	-87.8	-1645.4
	18	-10.84	21.30	-10.43	-1830.3	-137.2	867.4
SLE Rare +	26	26.66	42.89	-8.25	-1739.2	-133.6	-1001.6
	46	40.46	5.09	9.84	-1718.0	-83.9	1587.2
	44	-54.75	-14.14	8.89	-1797.4	-87.3	-1604.5
	18	-10.38	21.71	-10.36	-1817.8	-136.2	918.9
SLE Frequenti -	26	25.35	42.05	-8.25	-1741.6	-135.0	-907.9
	46	35.33	5.36	9.66	-1720.3	-83.2	1429.0
	44	-52.14	-13.94	8.74	-1801.3	-86.4	-1526.4
	18	-9.66	20.86	-10.39	-1821.8	-137.6	739.8
SLE Frequenti +	26	25.66	42.28	-8.14	-1718.4	-133.7	-874.5
	46	36.13	5.52	9.79	-1697.3	-82.3	1459.1
	44	-51.23	-13.73	8.86	-1777.7	-85.6	-1497.2
	18	-9.46	21.02	-10.26	-1797.9	-136.2	773.3
SLE Quasi Permanenti -	26	25.35	42.12	-8.16	-1722.2	-134.1	-874.5
	46	35.33	5.52	9.68	-1701.1	-82.4	1429.0
	44	-51.23	-13.78	8.76	-1781.8	-85.6	-1497.2
	18	-9.46	20.86	-10.28	-1802.1	-136.7	739.8
SLE Quasi Permanenti +	26	25.35	42.12	-8.16	-1722.2	-134.1	-874.5
	46	35.33	5.52	9.68	-1701.1	-82.4	1429.0
	44	-51.23	-13.78	8.76	-1781.8	-85.6	-1497.2
	18	-9.46	20.86	-10.28	-1802.1	-136.7	739.8
SLD -	26	20.31	33.95	-9.21	-1766.1	-267.4	-1840.4
	46	18.35	-1.52	6.38	-1746.0	-553.6	627.3
	44	-67.52	-20.66	5.17	-1839.4	-555.8	-2317.4
	18	-16.19	12.94	-10.88	-1858.5	-269.5	-162.6
SLD +	26	30.59	49.79	-6.95	-1647.8	1.0	15.1
	46	53.98	12.57	12.82	-1626.1	389.2	2297.2
	44	-36.26	-6.45	12.18	-1691.2	385.0	-739.9
	18	-3.28	28.80	-9.50	-1712.2	-1.9	1713.9
SLU Statiche -	26	50.69	39.83	1.41	420.0	98.6	-443.9
	46	36.00	-10.35	-2.89	409.6	107.6	4236.7
	45	-10.96	-40.87	-0.11	115.6	85.2	-169.2
	23	-79.19	70.29	1.50	160.9	93.1	5595.2
SLU Statiche +	26	53.30	42.55	1.46	431.8	100.5	-409.9
	46	36.86	-7.83	-2.82	421.0	109.6	4434.4
	45	-9.68	-34.37	-0.09	119.1	86.9	-164.1
	23	-76.86	76.59	1.53	166.4	94.9	5949.2
SLV -	26	27.69	18.40	-5.26	-360.0	-644.5	-349.6
	46	23.20	-12.38	-10.60	-269.3	-1583.5	2791.5

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	45	-18.69	-28.06	-11.50	-134.5	-1131.3	-504.0
	23	-73.66	26.30	-2.31	-65.0	-433.6	2807.1
SLV +	26	40.13	38.23	7.21	948.6	788.9	-151.5
	46	27.50	1.75	6.59	843.6	1742.5	3140.4
	45	6.69	-14.03	11.41	298.9	1256.8	314.1
	23	-32.86	74.28	4.45	292.4	569.3	4941.2
SLE Rare -	26	36.02	29.90	1.00	299.6	71.4	-242.8
	46	25.83	-7.19	-2.03	292.2	79.4	3030.5
	45	-7.47	-28.04	-0.07	84.2	62.8	-108.9
	23	-56.74	52.58	1.09	116.9	67.3	3975.7
SLE Rare +	26	37.81	31.65	1.01	300.9	72.2	-229.0
	46	26.40	-6.06	-2.03	293.4	79.9	3060.3
	45	-6.70	-24.17	-0.06	84.8	63.1	-101.5
	23	-55.18	55.82	1.09	118.1	67.9	4024.8
SLE Frequenti -	26	33.83	28.11	0.98	294.8	71.8	-254.2
	46	25.62	-5.71	-2.02	287.7	79.1	2993.7
	45	-6.28	-21.97	-0.05	82.0	62.5	-92.5
	23	-54.10	49.52	1.07	113.4	67.5	3923.2
SLE Frequenti +	26	34.55	28.83	0.99	297.2	72.2	-246.1
	46	25.83	-5.09	-2.00	290.0	79.6	3034.2
	45	-5.95	-20.28	-0.04	82.7	62.8	-89.5
	23	-53.49	51.10	1.07	114.6	67.9	3995.6
SLE Quasi Permanenti -	26	33.83	28.12	0.98	294.9	72.0	-251.6
	46	25.71	-5.26	-2.00	287.8	79.2	3003.0
	45	-5.97	-20.42	-0.04	82.0	62.5	-89.5
	23	-53.57	49.81	1.07	113.4	67.6	3939.5
SLE Quasi Permanenti +	26	33.83	28.12	0.98	294.9	72.0	-251.6
	46	25.71	-5.26	-2.00	287.8	79.2	3003.0
	45	-5.97	-20.42	-0.04	82.0	62.5	-89.5
	23	-53.57	49.81	1.07	113.4	67.6	3939.5
SLD -	26	31.27	24.11	-1.68	15.5	-233.0	-292.5
	46	24.44	-8.31	-5.66	50.1	-628.9	2891.8
	45	-11.38	-24.02	-4.92	-10.1	-445.9	-268.3
	23	-61.91	40.12	-0.37	37.6	-145.7	3421.8
SLD +	26	36.55	32.52	3.63	573.1	377.5	-208.6
	46	26.27	-2.32	1.66	524.2	787.9	3040.0
	45	-0.62	-18.07	4.84	174.5	571.4	78.4
	23	-44.61	60.46	2.51	189.9	281.5	4326.5
SLU Statiche -	31	27.89	50.59	-12.98	-2569.2	-82.3	-911.7
	49	49.53	-6.29	13.04	-2536.7	-9.0	1684.5
	46	-60.24	-14.65	12.93	-2596.1	-14.0	-1854.9
	26	-21.34	40.06	-14.20	-2628.0	-87.5	711.4
SLU Statiche +	31	28.92	51.29	-12.38	-2454.8	-81.6	-801.4
	49	52.67	-5.56	13.63	-2423.5	-6.2	1781.9
	46	-57.12	-13.96	13.56	-2481.0	-11.4	-1754.1
	26	-20.30	40.76	-13.60	-2511.7	-87.0	816.4
SLV -	31	2.72	18.77	-10.19	-1877.6	-284.2	-2621.7
	49	-7.13	-22.31	2.63	-1857.0	-911.6	-878.7
	46	-80.76	-25.50	2.75	-1902.7	-922.4	-3119.1
	26	-28.17	10.19	-11.38	-1922.1	-290.0	-1979.8
SLV +	31	35.31	55.38	-7.29	-1582.8	174.6	1837.7
	49	71.87	15.08	15.78	-1559.5	895.1	3087.7
	46	6.19	7.53	15.44	-1591.3	899.0	817.3
	26	-0.04	50.28	-7.74	-1615.0	172.9	2639.9
SLE Rare -	31	19.82	37.73	-8.97	-1773.8	-56.3	-528.2

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	49	34.95	-4.51	9.37	-1751.3	-6.8	1176.1
	46	-41.60	-10.08	9.28	-1791.3	-10.3	-1268.8
	26	-15.18	30.70	-9.79	-1813.4	-60.1	410.7
SLE Rare +	31	20.28	38.19	-8.91	-1762.7	-55.4	-476.4
	49	36.49	-4.11	9.42	-1740.3	-5.9	1218.6
	46	-39.94	-9.62	9.34	-1780.7	-9.4	-1225.0
	26	-14.83	31.10	-9.74	-1802.6	-59.2	460.7
SLE Frequenti -	31	18.78	37.12	-8.93	-1764.5	-54.3	-384.3
	49	31.63	-3.90	9.26	-1742.2	-7.8	1071.5
	46	-37.26	-9.21	9.15	-1781.0	-11.3	-1144.9
	26	-14.20	30.36	-9.73	-1803.0	-58.1	292.3
SLE Frequenti +	31	19.04	37.30	-8.81	-1741.3	-53.9	-353.6
	49	32.42	-3.74	9.38	-1719.2	-7.2	1098.4
	46	-36.45	-9.03	9.28	-1757.6	-10.7	-1117.1
	26	-13.96	30.52	-9.61	-1779.3	-57.7	321.8
SLE Quasi Permanenti -	31	18.78	37.13	-8.83	-1745.0	-53.9	-353.6
	49	31.63	-3.78	9.28	-1722.8	-7.7	1071.5
	46	-36.45	-9.04	9.17	-1761.2	-11.2	-1117.1
	26	-13.96	30.41	-9.63	-1782.9	-57.7	292.3
SLE Quasi Permanenti +	31	18.78	37.13	-8.83	-1745.0	-53.9	-353.6
	49	31.63	-3.78	9.28	-1722.8	-7.7	1071.5
	46	-36.45	-9.04	9.17	-1761.2	-11.2	-1117.1
	26	-13.96	30.41	-9.63	-1782.9	-57.7	292.3
SLD -	31	12.10	29.28	-9.36	-1792.8	-152.5	-1336.9
	49	15.63	-11.56	6.40	-1771.4	-393.0	264.0
	46	-55.71	-16.01	6.39	-1813.0	-399.6	-1985.0
	26	-20.09	21.72	-10.33	-1833.7	-157.1	-648.9
SLD +	31	25.93	44.86	-8.13	-1667.6	42.9	552.9
	49	49.12	4.33	12.01	-1645.0	376.6	1945.0
	46	-18.85	-1.96	11.80	-1681.0	376.3	-316.8
	26	-8.12	38.75	-8.78	-1703.4	40.0	1309.0
SLU Statiche -	31	49.28	42.02	-0.42	37.9	40.5	-475.9
	49	35.17	-7.53	0.48	21.4	-90.3	4237.8
	47	-14.25	-38.43	-1.22	61.9	-55.2	-89.5
	28	-73.64	62.61	1.04	120.9	58.0	5340.6
SLU Statiche +	31	51.87	44.66	-0.35	47.0	42.4	-440.6
	49	36.02	-4.83	0.57	30.7	-82.5	4431.4
	47	-13.05	-31.88	-1.15	63.5	-49.8	-86.0
	28	-71.38	69.22	1.07	124.8	59.9	5672.1
SLV -	31	26.88	19.66	-6.33	-579.4	-699.6	-363.9
	49	21.26	-11.33	-8.69	-493.1	-1724.2	2759.0
	47	-20.49	-26.28	-12.15	-186.2	-1226.9	-411.5
	28	-70.83	20.02	-2.85	-81.1	-471.3	2545.2
SLV +	31	38.99	39.89	5.64	606.1	761.8	-180.5
	49	28.00	4.78	9.38	499.3	1631.6	3166.6
	47	4.04	-12.41	10.69	276.3	1173.4	324.8
	28	-27.84	70.16	4.31	248.6	553.4	4832.9
SLE Rare -	31	35.00	31.42	-0.34	15.6	28.8	-265.5
	49	25.07	-5.01	0.39	4.5	-61.8	3027.2
	47	-9.85	-26.26	-0.86	45.3	-37.5	-53.5
	28	-52.56	47.16	0.74	86.8	41.0	3781.5
SLE Rare +	31	36.77	33.20	-0.31	21.5	30.0	-251.8
	49	25.64	-3.91	0.42	9.9	-55.3	3056.6
	47	-9.03	-22.43	-0.80	45.6	-32.9	-47.8
	28	-51.06	50.32	0.75	88.5	41.4	3828.4

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
SLE Frequenti -	31	32.87	29.59	-0.37	8.4	30.6	-276.8
	49	24.87	-3.65	0.36	-1.8	-47.1	2989.3
	47	-8.52	-20.29	-0.73	44.8	-27.3	-41.2
	28	-50.14	44.26	0.72	82.9	40.6	3736.0
SLE Frequenti +	31	33.58	30.30	-0.36	10.9	31.1	-268.3
	49	25.08	-3.00	0.37	0.5	-44.5	3028.9
	47	-8.19	-18.60	-0.71	45.1	-25.5	-38.9
	28	-49.55	45.90	0.73	83.9	41.0	3803.9
SLE Quasi Permanenti -	31	32.87	29.59	-0.37	8.5	31.1	-273.8
	49	24.95	-3.21	0.36	-1.6	-44.5	2998.2
	47	-8.19	-18.76	-0.71	44.8	-25.5	-38.9
	28	-49.63	44.63	0.72	82.9	40.7	3751.7
SLE Quasi Permanenti +	31	32.87	29.59	-0.37	8.5	31.1	-273.8
	49	24.95	-3.21	0.36	-1.6	-44.5	2998.2
	47	-8.19	-18.76	-0.71	44.8	-25.5	-38.9
	28	-49.63	44.63	0.72	82.9	40.7	3751.7
SLD -	31	30.37	25.49	-2.90	-239.1	-280.1	-311.1
	49	23.20	-6.69	-3.50	-208.2	-761.1	2876.4
	47	-13.43	-22.28	-5.60	-53.4	-538.0	-199.4
	28	-58.44	34.47	-0.80	13.5	-177.2	3204.2
SLD +	31	35.50	34.06	2.21	265.9	342.4	-233.3
	49	26.06	0.14	4.20	214.4	668.5	3049.2
	47	-3.03	-16.40	4.14	143.5	484.5	112.7
	28	-40.22	55.72	2.25	154.0	259.3	4173.9
SLU Statiche -	30	52.19	35.68	-1.04	-105.5	62.8	-4975.2
	48	21.11	-34.63	2.19	-33.0	-183.4	-50.8
	52	-26.51	8.65	-2.74	144.2	-263.1	-4349.3
	34	-50.03	47.97	1.36	123.8	27.8	476.8
SLU Statiche +	30	54.11	43.38	-1.01	-102.9	66.0	-4680.0
	48	22.44	-27.94	2.32	-32.4	-171.4	-40.5
	52	-25.82	12.07	-2.57	160.1	-246.0	-4160.2
	34	-47.47	50.53	1.47	139.6	29.9	511.9
SLV -	30	8.24	-3.39	-4.25	-241.0	-489.3	-4811.1
	48	0.75	-24.23	-9.42	-212.4	-1248.2	-407.0
	52	-26.11	-3.07	-10.94	-420.1	-1713.3	-3328.1
	34	-38.45	21.70	-4.37	-501.5	-701.1	170.5
SLV +	30	63.43	57.84	2.89	103.3	574.2	-1637.8
	48	26.87	-9.24	12.25	164.7	1031.1	317.2
	52	-9.82	19.02	7.29	682.3	1400.1	-2479.3
	34	-24.90	45.87	6.55	738.7	742.7	415.1
SLE Rare -	30	36.96	28.46	-0.73	-75.3	44.4	-3340.2
	48	14.90	-23.50	1.54	-24.2	-128.0	-44.9
	52	-18.61	6.89	-1.95	117.8	-183.6	-2995.6
	34	-35.44	35.63	1.05	103.4	19.9	277.1
SLE Rare +	30	38.24	31.38	-0.71	-72.3	45.1	-3296.5
	48	15.81	-19.71	1.63	-23.6	-120.4	-40.4
	52	-18.15	7.86	-1.91	127.9	-173.2	-2968.0
	34	-33.69	37.48	1.10	114.3	20.6	289.0
SLE Frequenti -	30	36.02	26.08	-0.68	-68.1	42.1	-3328.6
	48	13.77	-17.69	1.39	-23.3	-109.8	-49.8
	52	-18.34	7.68	-1.89	135.9	-158.4	-2966.7
	34	-32.31	33.60	1.12	123.4	20.5	289.6
SLE Frequenti +	30	36.52	27.91	-0.67	-66.9	42.8	-3268.1
	48	14.14	-15.97	1.42	-23.1	-106.8	-47.3
	52	-18.17	8.46	-1.85	140.1	-154.2	-2928.0

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	34	-31.61	34.34	1.14	127.7	20.9	297.9
SLE Quasi Permanenti -	30	36.08	26.74	-0.67	-66.9	42.1	-3282.7
	48	13.77	-16.17	1.39	-23.1	-106.8	-49.1
	52	-18.24	8.07	-1.86	140.0	-154.2	-2936.2
	34	-31.61	33.60	1.14	127.7	20.7	294.4
SLE Quasi Permanenti +	30	36.08	26.74	-0.67	-66.9	42.1	-3282.7
	48	13.77	-16.17	1.39	-23.1	-106.8	-49.1
	52	-18.24	8.07	-1.86	140.0	-154.2	-2936.2
	34	-31.61	33.60	1.14	127.7	20.7	294.4
SLD -	30	24.11	14.21	-2.20	-142.1	-184.0	-3899.0
	48	8.26	-19.92	-3.20	-104.1	-594.0	-198.4
	52	-21.44	3.28	-5.71	-102.9	-819.7	-3084.3
	34	-34.55	28.65	-1.23	-144.8	-286.7	240.9
SLD +	30	47.57	40.24	0.84	4.5	269.0	-2549.8
	48	19.36	-13.55	6.03	56.4	376.9	108.6
	52	-14.50	12.67	2.05	365.2	506.5	-2723.1
	34	-28.80	38.92	3.42	382.0	328.3	344.7
SLU Statiche -	34	18.81	42.68	-14.64	-2720.2	39.7	-868.9
	52	56.75	-19.60	12.88	-2686.5	121.0	1314.9
	49	-52.79	-7.07	13.88	-2607.7	112.7	-1732.1
	31	-27.15	53.13	-13.40	-2640.9	34.5	508.3
SLU Statiche +	34	19.50	43.46	-13.97	-2596.1	41.9	-748.8
	52	60.44	-18.38	13.51	-2563.7	129.5	1404.6
	49	-49.68	-6.31	14.53	-2491.6	120.9	-1629.3
	31	-25.89	54.33	-12.81	-2523.6	36.7	616.1
SLV -	34	-5.49	13.56	-11.89	-2009.9	-336.6	-2338.7
	52	5.42	-34.03	0.74	-1990.2	-1082.3	-826.8
	49	-73.82	-18.67	1.95	-1924.6	-1072.9	-2898.3
	31	-28.59	16.88	-12.05	-1945.4	-333.1	-1851.0
SLV +	34	30.42	48.54	-7.86	-1651.0	399.8	1575.4
	52	71.19	8.16	17.63	-1625.3	1226.8	2562.5
	49	9.19	12.29	17.40	-1581.0	1206.7	732.8
	31	-8.32	62.69	-5.92	-1605.0	389.1	2280.1
SLE Rare -	34	13.16	31.77	-10.13	-1878.3	31.7	-506.6
	52	40.93	-13.91	9.29	-1855.0	81.7	928.8
	49	-36.53	-4.45	9.94	-1798.2	76.0	-1188.8
	31	-19.35	40.28	-9.22	-1821.2	28.0	289.1
SLE Rare +	34	13.68	32.37	-10.07	-1866.6	32.6	-463.8
	52	42.21	-13.49	9.37	-1843.5	89.6	961.8
	49	-34.93	-3.87	10.00	-1787.9	83.6	-1152.2
	31	-19.16	40.69	-9.17	-1810.7	28.9	330.0
SLE Frequenti -	34	12.15	30.93	-10.07	-1867.3	32.5	-382.9
	52	37.84	-13.41	9.25	-1844.3	69.3	841.6
	49	-32.33	-3.32	9.72	-1786.7	64.1	-1081.6
	31	-18.71	40.02	-9.16	-1809.5	28.9	183.1
SLE Frequenti +	34	12.36	31.17	-9.94	-1842.1	32.9	-352.3
	52	38.68	-13.16	9.38	-1819.3	72.4	865.4
	49	-31.53	-3.09	9.85	-1763.1	67.1	-1054.7
	31	-18.46	40.27	-9.04	-1785.7	29.3	211.7
SLE Quasi Permanenti -	34	12.15	30.93	-9.96	-1846.0	32.7	-352.3
	52	37.84	-13.23	9.28	-1823.2	69.3	841.6
	49	-31.53	-3.09	9.73	-1766.6	64.1	-1054.7
	31	-18.46	40.10	-9.05	-1789.2	29.1	183.1
SLE Quasi Permanenti +	34	12.15	30.93	-9.96	-1846.0	32.7	-352.3
	52	37.84	-13.23	9.28	-1823.2	69.3	841.6

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	49	-31.53	-3.09	9.73	-1766.6	64.1	-1054.7
	31	-18.46	40.10	-9.05	-1789.2	29.1	183.1
SLD -	34	4.85	23.60	-10.73	-1906.8	-125.2	-1211.5
	52	24.33	-21.88	5.58	-1885.5	-419.6	149.3
	49	-49.90	-9.78	6.39	-1825.6	-418.7	-1852.5
	31	-22.78	30.07	-10.29	-1847.3	-125.8	-661.3
SLD +	34	20.08	38.50	-9.01	-1754.1	188.4	448.2
	52	52.27	-3.99	12.78	-1730.1	564.0	1586.4
	49	-14.72	3.41	12.97	-1680.0	552.4	-313.0
	31	-14.14	49.49	-7.68	-1703.1	181.8	1090.3
SLU Statiche -	35	44.15	49.96	2.70	698.4	32.3	-289.6
	53	19.22	26.40	-1.48	660.9	-326.0	4194.9
	50	-30.29	-32.60	-3.30	88.3	-224.0	260.8
	32	-36.42	13.46	1.72	233.3	84.6	4272.7
SLU Statiche +	35	46.61	52.65	2.92	757.4	45.9	-264.0
	53	20.11	30.23	-1.26	717.7	-305.2	4371.1
	50	-28.68	-26.01	-3.14	94.3	-209.2	277.3
	32	-34.40	21.48	1.86	246.9	97.8	4527.4
SLV -	35	19.33	20.67	-3.71	-85.2	-804.7	-271.8
	53	-1.24	1.90	-12.08	-60.6	-1880.3	2123.5
	50	-35.55	-24.95	-13.25	-187.3	-1347.7	-218.0
	32	-64.37	-30.19	-3.50	24.1	-562.0	503.0
SLV +	35	39.47	49.58	7.12	998.0	869.8	-9.9
	53	27.62	38.97	10.29	923.9	1500.2	3717.5
	50	-2.37	-5.99	9.19	315.2	1088.4	595.7
	32	17.12	54.51	5.94	296.1	690.0	5360.6
SLE Rare -	35	31.28	37.09	1.90	500.2	27.7	-133.6
	53	13.40	19.88	-0.98	473.5	-228.7	2988.0
	50	-21.46	-22.07	-2.34	65.7	-156.8	197.7
	32	-25.33	12.76	1.28	168.9	64.6	2996.6
SLE Rare +	35	32.97	39.00	2.03	523.0	31.9	-121.4
	53	13.82	20.75	-0.96	495.1	-211.6	3014.6
	50	-20.37	-18.36	-2.21	66.1	-144.8	201.8
	32	-24.35	15.45	1.28	172.9	66.5	3026.5
SLE Frequenti -	35	29.32	34.98	1.66	447.3	31.8	-145.0
	53	13.20	20.33	-0.92	423.0	-192.7	2939.1
	50	-19.38	-16.41	-2.05	63.5	-131.5	190.0
	32	-24.03	10.72	1.21	158.1	63.5	2961.7
SLE Frequenti +	35	30.00	35.74	1.71	461.2	34.9	-138.6
	53	13.41	21.18	-0.88	436.3	-185.9	2975.0
	50	-18.94	-14.71	-1.99	64.7	-126.7	193.3
	32	-23.53	12.59	1.24	161.3	66.3	3013.6
SLE Quasi Permanenti -	35	29.32	34.98	1.66	447.3	33.5	-143.5
	53	13.27	20.68	-0.88	423.0	-185.9	2945.3
	50	-18.94	-14.92	-1.99	63.5	-126.7	190.3
	32	-23.65	11.52	1.21	158.1	64.3	2971.7
SLE Quasi Permanenti +	35	29.32	34.98	1.66	447.3	33.5	-143.5
	53	13.27	20.68	-0.88	423.0	-185.9	2945.3
	50	-18.94	-14.92	-1.99	63.5	-126.7	190.3
	32	-23.65	11.52	1.21	158.1	64.3	2971.7
SLD -	35	25.11	28.97	-0.59	226.8	-324.1	-196.6
	53	7.06	12.55	-5.66	223.0	-910.1	2581.1
	50	-26.02	-19.50	-6.81	-43.0	-648.5	15.6
	32	-40.96	-5.85	-0.79	102.3	-202.7	1898.2
SLD +	35	33.68	41.27	4.01	686.0	389.2	-85.1

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	53	19.33	28.32	3.87	640.3	529.9	3259.9
	50	-11.91	-11.44	2.75	170.9	389.2	362.1
	32	-6.29	30.17	3.23	217.9	330.7	3965.4
SLU Statiche -	36	39.36	63.25	7.11	1797.4	213.7	-934.7
	54	24.51	-26.19	-8.21	1724.4	-189.4	1950.4
	51	-19.39	-22.63	-2.67	105.5	-124.8	208.9
	33	-46.55	48.67	3.22	297.9	254.7	2149.7
SLU Statiche +	36	40.73	64.69	7.49	1885.4	223.7	-907.1
	54	25.21	-24.64	-7.79	1808.6	-173.0	2018.2
	51	-18.92	-19.26	-2.55	112.9	-113.2	219.4
	33	-44.94	52.05	3.36	315.4	264.1	2289.2
SLV -	36	21.80	12.83	2.82	1062.1	-385.4	-911.3
	54	-9.36	-34.67	-15.16	957.7	-1328.5	226.4
	51	-34.13	-19.78	-9.54	-226.0	-969.0	-199.2
	33	-82.55	-23.61	-0.99	140.8	-208.6	-1949.0
SLV +	36	32.26	78.88	7.09	1458.5	706.8	-253.5
	54	43.00	2.09	3.95	1462.8	1125.6	2473.5
	51	7.93	-4.58	6.20	389.7	838.6	535.9
	33	21.05	93.34	5.63	281.8	579.2	4797.1
SLE Rare -	36	28.23	47.20	5.21	1316.1	158.2	-589.8
	54	17.44	-18.90	-5.78	1263.1	-129.8	1369.8
	51	-13.85	-15.82	-1.91	81.0	-85.1	161.1
	33	-33.24	36.58	2.38	220.9	187.3	1448.4
SLE Rare +	36	29.19	48.27	5.31	1336.8	160.9	-585.8
	54	17.91	-17.76	-5.76	1282.3	-115.5	1383.8
	51	-13.48	-13.77	-1.80	82.7	-74.9	166.2
	33	-32.17	38.71	2.38	223.6	188.0	1483.0
SLE Frequenti -	36	26.97	45.71	4.95	1259.6	160.3	-585.1
	54	16.89	-16.59	-5.71	1209.7	-102.6	1363.3
	51	-13.17	-12.54	-1.68	82.0	-66.0	168.9
	33	-31.26	34.36	2.32	211.2	185.1	1458.7
SLE Frequenti +	36	27.35	46.14	5.03	1277.3	162.6	-579.4
	54	17.07	-16.14	-5.63	1226.6	-96.9	1377.3
	51	-13.02	-11.66	-1.64	83.7	-61.9	171.5
	33	-30.83	35.25	2.35	214.7	187.1	1487.7
SLE Quasi Permanenti -	36	26.97	45.71	4.95	1259.6	161.4	-580.3
	54	16.91	-16.14	-5.64	1209.7	-96.9	1367.7
	51	-13.02	-11.72	-1.64	82.7	-61.9	171.0
	33	-30.86	34.40	2.32	211.2	185.4	1470.2
SLE Quasi Permanenti +	36	26.97	45.71	4.95	1259.6	161.4	-580.3
	54	16.91	-16.14	-5.64	1209.7	-96.9	1367.7
	51	-13.02	-11.72	-1.64	82.7	-61.9	171.0
	33	-30.86	34.40	2.32	211.2	185.4	1470.2
SLD -	36	24.81	31.78	4.05	1176.2	-71.9	-722.1
	54	5.67	-24.11	-9.68	1102.9	-624.1	871.3
	51	-22.06	-15.41	-5.02	-49.2	-450.2	12.1
	33	-52.82	9.96	0.91	181.4	17.5	-13.2
SLD +	36	29.25	59.93	5.86	1344.5	393.4	-442.7
	54	27.98	-8.47	-1.54	1317.6	421.3	1828.7
	51	-4.14	-8.95	1.69	213.0	319.8	324.6
	33	-8.69	59.77	3.73	241.1	353.1	2861.3
SLU Statiche -	35	23.45	45.89	-13.52	-2635.1	-64.5	-1415.4
	53	50.36	-3.53	12.23	-2606.5	166.8	1181.1
	52	-61.62	-15.25	14.44	-2668.0	158.1	-1555.5

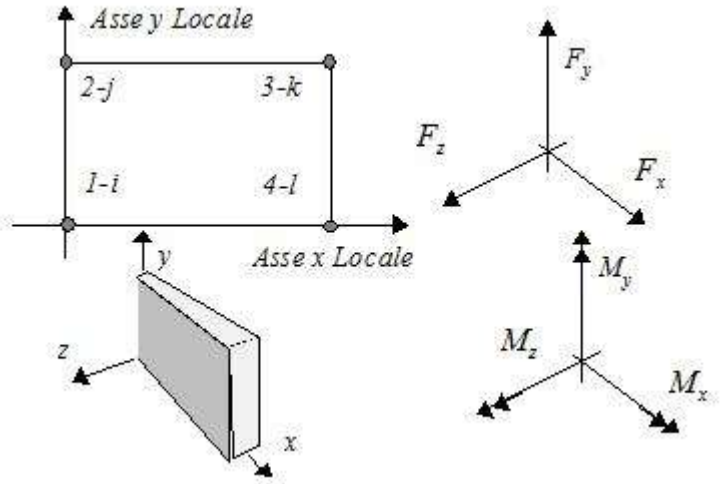
Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	34	-16.45	42.48	-14.40	-2700.3	-66.5	772.0
SLU Statiche +	35	24.75	46.95	-12.94	-2519.1	-59.9	-1250.2
	53	53.32	-3.10	12.75	-2491.6	181.1	1254.6
	52	-57.81	-14.15	15.17	-2547.4	171.5	-1455.0
	34	-15.99	42.90	-13.74	-2578.6	-61.7	885.6
SLV -	35	-1.00	18.08	-10.35	-1999.7	-314.0	-2422.4
	53	13.44	-26.28	3.68	-1980.0	-476.1	-539.9
	52	-69.90	-22.76	6.52	-1989.9	-514.0	-2554.8
	34	-20.20	6.30	-12.58	-2009.9	-324.2	-1276.3
SLV +	35	32.49	47.84	-8.04	-1554.0	249.7	876.6
	53	56.44	21.81	13.65	-1535.2	700.2	2187.5
	52	-7.68	5.97	13.72	-1593.0	724.8	568.1
	34	-3.58	58.46	-6.61	-1616.6	256.8	2175.1
SLE Rare -	35	16.77	34.12	-9.39	-1821.5	-43.4	-896.1
	53	36.80	-2.41	8.79	-1801.8	121.1	855.7
	52	-42.97	-10.45	10.38	-1839.7	114.6	-1072.9
	34	-12.00	32.31	-9.90	-1862.0	-44.6	509.7
SLE Rare +	35	17.36	34.97	-9.32	-1811.3	-38.2	-865.4
	53	37.51	-2.12	8.84	-1791.7	125.0	867.4
	52	-41.57	-9.61	10.44	-1830.2	118.7	-1050.7
	34	-11.90	32.60	-9.85	-1852.4	-39.7	530.1
SLE Frequenti -	35	15.45	32.75	-9.38	-1810.6	-31.0	-795.0
	53	34.83	-2.60	8.71	-1791.0	112.4	808.1
	52	-39.15	-8.55	10.17	-1825.4	105.6	-1000.4
	34	-12.07	32.67	-9.76	-1847.6	-32.6	430.7
SLE Frequenti +	35	15.77	33.10	-9.26	-1787.1	-29.0	-758.8
	53	35.45	-2.50	8.82	-1767.7	115.2	825.2
	52	-38.27	-8.22	10.32	-1801.0	108.3	-976.5
	34	-11.97	32.76	-9.63	-1822.9	-30.6	457.6
SLE Quasi Permanenti -	35	15.45	32.75	-9.28	-1790.5	-29.0	-758.8
	53	34.83	-2.59	8.73	-1771.0	112.5	808.1
	52	-38.27	-8.22	10.19	-1804.1	105.7	-976.5
	34	-12.01	32.76	-9.64	-1826.1	-30.6	430.7
SLE Quasi Permanenti +	35	15.45	32.75	-9.28	-1790.5	-29.0	-758.8
	53	34.83	-2.59	8.73	-1771.0	112.5	808.1
	52	-38.27	-8.22	10.19	-1804.1	105.7	-976.5
	34	-12.01	32.76	-9.64	-1826.1	-30.6	430.7
SLD -	35	8.65	26.62	-9.68	-1871.8	-152.0	-1474.5
	53	25.79	-12.43	6.54	-1852.4	-138.5	244.2
	52	-51.98	-14.51	8.59	-1875.8	-158.4	-1657.2
	34	-15.42	21.33	-10.87	-1896.8	-157.3	-284.2
SLD +	35	22.84	39.30	-8.70	-1681.9	87.8	-71.3
	53	44.09	7.96	10.79	-1662.8	362.6	1403.4
	52	-25.60	-2.28	11.65	-1707.1	369.3	-329.6
	34	-8.36	43.43	-8.32	-1729.7	89.9	1182.9
SLU Statiche -	36	57.58	102.86	-13.12	-2773.7	-231.4	-862.1
	54	4.83	11.06	12.88	-2732.5	196.8	1412.9
	53	-65.97	-54.20	15.63	-2863.8	180.1	-472.6
	35	0.05	6.64	-16.53	-2894.8	-238.3	520.4
SLU Statiche +	36	60.17	106.66	-12.85	-2693.2	-202.8	-804.8
	54	4.97	12.02	13.42	-2653.3	215.7	1488.9
	53	-62.47	-51.06	16.22	-2752.5	198.2	-436.2
	35	0.83	8.26	-15.79	-2782.4	-209.8	600.8
SLV -	36	32.72	54.84	-11.86	-2217.1	-674.5	-1165.6
	54	-1.98	-22.30	-1.33	-2199.4	-1301.5	748.2

Comb.	Nodo	F_x [kN]	F_y [kN]	F_z [kN]	M_x [kgm]	M_y [kgm]	M_z [kgm]
	53	-56.78	-47.27	2.19	-2227.5	-1260.4	-1466.7
	35	-12.86	-18.37	-16.02	-2244.4	-658.6	-691.4
SLV +	36	47.85	91.86	-6.24	-1599.1	366.1	102.8
	54	9.19	37.79	20.09	-1561.2	1530.8	1231.1
	53	-29.69	-21.61	19.51	-1650.3	1467.8	769.7
	35	11.54	34.47	-6.34	-1675.0	341.6	1303.0
SLE Rare -	36	42.04	76.07	-9.15	-1933.4	-160.3	-555.2
	54	3.59	8.31	9.24	-1904.8	131.0	1040.3
	53	-46.51	-38.07	11.16	-1983.6	119.0	-342.5
	35	-0.12	6.92	-11.45	-2005.0	-164.9	344.6
SLE Rare +	36	42.78	77.32	-9.09	-1921.3	-156.7	-550.1
	54	3.63	8.54	9.41	-1892.8	147.5	1061.4
	53	-45.55	-36.87	11.28	-1974.2	135.0	-324.6
	35	0.14	7.19	-11.39	-1995.5	-161.5	353.3
SLE Frequenti -	36	40.18	73.19	-9.17	-1936.7	-159.5	-548.2
	54	3.63	7.60	9.43	-1908.6	109.4	986.9
	53	-43.81	-35.01	10.87	-1970.9	98.5	-345.3
	35	-0.76	7.90	-11.38	-1992.1	-163.8	299.2
SLE Frequenti +	36	40.73	73.99	-9.11	-1919.5	-153.4	-536.5
	54	3.66	7.83	9.55	-1891.5	116.0	1002.7
	53	-43.07	-34.36	10.99	-1948.3	104.9	-336.7
	35	-0.58	8.28	-11.23	-1969.3	-157.8	316.8
SLE Quasi Permanenti -	36	40.18	73.19	-9.13	-1924.2	-154.9	-538.2
	54	3.65	7.60	9.50	-1896.3	109.4	986.9
	53	-43.07	-34.36	10.88	-1951.5	98.5	-341.9
	35	-0.76	8.28	-11.25	-1972.4	-159.1	299.2
SLE Quasi Permanenti +	36	40.18	73.19	-9.13	-1924.2	-154.9	-538.2
	54	3.65	7.60	9.50	-1896.3	109.4	986.9
	53	-43.07	-34.36	10.88	-1951.5	98.5	-341.9
	35	-0.76	8.28	-11.25	-1972.4	-159.1	299.2
SLD -	36	37.08	65.46	-10.24	-2039.8	-375.8	-801.5
	54	1.23	-5.05	4.82	-2016.3	-488.6	887.0
	53	-48.98	-39.91	7.17	-2061.7	-477.3	-824.5
	35	-5.84	-3.19	-13.24	-2080.9	-371.5	-118.9
SLD +	36	43.50	81.24	-7.86	-1776.4	67.4	-261.3
	54	5.97	20.54	13.94	-1744.3	717.9	1092.2
	53	-37.48	-28.97	14.53	-1816.0	684.8	127.5
	35	4.53	19.28	-9.12	-1838.5	54.5	730.5

Sollecitazioni nei setti

Convenzioni adottate

L'elemento parete viene individuato tramite il numero dei due nodi a numerazione più bassa cui fa capo l'elemento. La numerazione dei nodi e le convenzioni sulle sollecitazioni agenti nel setto sono le seguenti:



Dove:

F_x, F_y, F_z
forze, agenti nel generico nodo, in direzione degli assi locali **x**, **y**, **z**.

M_x, M_y, M_z
momenti agenti nel generico nodo ed aventi asse vettore concorde con gli assi locali **x**, **y**, **z**.

Setto nodi	Combinazione	Azioni via equiibrio					Azioni via tensioni	
		Nel Piano			FuoriPiano		Nel Piano	
		$N_{Base,Em}$ $N_{Top,Em}$ [kN]	$T_{Base,Em}$ $T_{Top,Em}$ [kN]	$M_{Base,Em}$ $M_{Top,Em}$ [kgm]	$T_{Base,Ef}$ $T_{Top,Ef}$ [kN]	$M_{Base,Ef}$ $M_{Top,Ef}$ [kgm]	$N_{Base,\sigma m}$ $N_{Top,\sigma m}$ [kN]	$M_{Base,\sigma m}$ $M_{Top,\sigma m}$ [kgm]
2 38 37 1	SLU Statiche -	136.11	16.13	-5063.1	7.00	1421.6	91.86	-1905.6
		-72.28	-17.65	-1796.9	-7.48	457423847424.0	0.00	0.0
	SLU Statiche +	140.20	17.65	-4733.7	7.48	1517.4	96.14	-1566.6
		-68.19	-16.13	-1284.6	-7.00	457423847424.0	0.00	0.0
	SLV -	77.68	-24.06	-15071.4	3.32	805.5	55.20	-6270.0
		-64.42	-46.52	-2639.9	-6.66	457423847424.0	0.00	0.0
	SLV +	116.67	46.52	8854.6	6.66	1216.3	74.31	4302.6
		-25.43	24.06	318.7	-3.32	457423847424.0	0.00	0.0
	SLE Rare -	100.61	12.23	-3720.3	5.27	1068.6	67.52	-1334.6
		-51.82	-12.61	-1209.8	-5.37	457423847424.0	0.00	0.0
	SLE Rare +	104.07	12.61	-3436.6	5.37	1088.3	70.87	-1122.4
		-48.36	-12.23	-1072.8	-5.27	457423847424.0	0.00	0.0
	SLE Frequenti -	96.19	11.23	-3136.4	4.99	1010.2	63.57	-981.4
		-45.33	-11.54	-1306.8	-5.08	457423847424.0	0.00	0.0
	SLE Frequenti +	97.58	11.54	-3022.9	5.08	1029.5	64.91	-892.4
		-43.94	-11.23	-1190.6	-4.99	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	96.19	11.23	-3022.9	4.99	1010.2	63.57	-896.5
		-43.94	-11.23	-1245.4	-4.99	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	96.19	11.23	-3022.9	4.99	1010.2	63.57	-896.5
		-43.94	-11.23	-1245.4	-4.99	457423847424.0	0.00	0.0
	SLD -	88.90	-3.77	-8195.3	4.28	923.7	60.69	-3231.1
		-53.20	-26.24	-1790.3	-5.70	457423847424.0	0.00	0.0
	SLD +	105.45	26.24	1978.5	5.70	1098.1	68.82	1263.7
		-36.65	3.77	-530.9	-4.28	457423847424.0	0.00	0.0
1 37 39 5	SLU Statiche -	87.28	52.85	-11532.5	11.97	2292.7	66.68	-903.8
		-36.33	-55.97	-9736.0	-12.92	457423847424.0	0.00	0.0
	SLU Statiche +	89.44	55.97	-10892.7	12.92	2474.7	68.56	-857.0
		-34.18	-52.85	-9189.9	-11.97	457423847424.0	0.00	0.0
	SLV -	31.41	26.34	-9615.2	5.43	1052.8	16.09	-1143.9
		-56.42	-46.90	-8475.1	-12.56	457423847424.0	0.00	0.0
	SLV +	97.27	46.90	-5545.3	12.56	2391.3	80.74	-109.6

		9.44	-26.34	-4195.7	-5.43	457423847424.0	0.00	0.0
	SLE Rare -	65.49	38.66	-8143.7	9.17	1755.6	49.48	-644.9
		-25.27	-39.50	-6866.0	-9.30	457423847424.0	0.00	0.0
	SLE Rare +	66.12	39.50	-7985.8	9.30	1780.9	50.06	-641.3
		-24.64	-38.66	-6704.2	-9.17	457423847424.0	0.00	0.0
	SLE Frequenti -	64.55	36.45	-7686.7	9.12	1746.2	48.58	-639.8
		-24.14	-37.11	-6415.3	-9.32	457423847424.0	0.00	0.0
	SLE Frequenti +	64.99	37.11	-7552.5	9.32	1784.6	48.96	-630.3
		-23.70	-36.45	-6297.5	-9.12	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	64.63	36.45	-7552.5	9.17	1755.8	48.64	-631.5
		-23.78	-36.45	-6297.5	-9.17	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	64.63	36.45	-7552.5	9.17	1755.8	48.64	-631.5
		-23.78	-36.45	-6297.5	-9.17	457423847424.0	0.00	0.0
	SLD -	50.32	32.26	-8444.7	7.47	1436.8	34.65	-846.9
		-37.50	-40.98	-7242.3	-10.51	457423847424.0	0.00	0.0
	SLD +	78.35	40.98	-6715.7	10.51	2007.3	62.18	-406.6
		-9.47	-32.26	-5428.5	-7.47	457423847424.0	0.00	0.0
6 40 39 5	SLU Statiche -	90.72	-17.66	1890.6	7.04	1411.2	58.75	-1494.8
		-33.44	16.81	4208.0	-7.45	457423847424.0	0.00	0.0
	SLU Statiche +	101.36	-16.81	2487.2	7.45	1493.2	70.54	-881.6
		-22.80	17.66	4820.0	-7.04	457423847424.0	0.00	0.0
	SLV -	38.86	-44.27	-8850.5	2.39	466.1	32.07	-4747.6
		-39.75	-21.78	505.1	-7.12	457423847424.0	0.00	0.0
	SLV +	92.00	21.78	12058.7	7.12	1438.2	52.01	3652.0
		13.39	44.27	4832.5	-2.39	457423847424.0	0.00	0.0
	SLE Rare -	68.19	-12.88	1525.5	5.03	1007.1	44.21	-941.0
		-20.83	12.20	2977.3	-5.15	457423847424.0	0.00	0.0
	SLE Rare +	73.08	-12.20	1659.2	5.15	1032.0	49.12	-675.5
		-15.94	12.88	3367.8	-5.03	457423847424.0	0.00	0.0
	SLE Frequenti -	63.68	-11.37	1591.1	4.71	942.8	39.86	-584.8
		-14.05	11.10	2568.4	-4.80	457423847424.0	0.00	0.0
	SLE Frequenti +	66.30	-11.10	1723.8	4.80	961.3	42.71	-435.6
		-11.43	11.37	2729.8	-4.71	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	64.34	-11.10	1644.5	4.71	942.8	40.75	-478.6
		-12.09	11.10	2573.6	-4.71	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	64.34	-11.10	1644.5	4.71	942.8	40.75	-478.6
		-12.09	11.10	2573.6	-4.71	457423847424.0	0.00	0.0
	SLD -	54.14	-25.28	-2839.7	3.75	746.0	37.81	-2333.6
		-24.47	-2.79	1750.7	-5.75	457423847424.0	0.00	0.0
	SLD +	76.72	2.79	6047.9	5.75	1158.3	46.26	1238.1
		-1.89	25.28	3586.9	-3.75	457423847424.0	0.00	0.0
5 39 41 9	SLU Statiche -	70.48	41.63	-8409.9	19.54	3726.3	40.47	-189.7
		-16.09	-43.28	-8036.7	-20.95	457423847424.0	0.00	0.0
	SLU Statiche +	71.67	43.28	-8090.9	20.95	3995.9	41.26	-184.9
		-14.91	-41.63	-7727.4	-19.54	457423847424.0	0.00	0.0
	SLV -	28.51	6.60	-9403.0	11.61	2215.8	5.09	-201.7
		-33.14	-49.09	-9252.8	-16.36	457423847424.0	0.00	0.0
	SLV +	75.89	49.09	-1423.2	16.36	3119.1	54.95	-46.6
		14.24	-6.60	-1084.1	-11.61	457423847424.0	0.00	0.0
	SLE Rare -	53.17	29.12	-5793.5	14.44	2754.5	30.46	-126.3
		-11.12	-29.84	-5544.7	-14.57	457423847424.0	0.00	0.0
	SLE Rare +	53.87	29.84	-5658.1	14.57	2778.2	30.99	-125.4
		-10.42	-29.12	-5409.1	-14.44	457423847424.0	0.00	0.0
	SLE Frequenti -	52.33	27.52	-5430.6	14.11	2691.1	30.15	-126.1
		-9.85	-27.93	-5182.0	-14.40	457423847424.0	0.00	0.0
	SLE Frequenti +	52.60	27.93	-5353.3	14.40	2745.9	30.36	-125.1
		-9.58	-27.52	-5106.1	-14.11	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	52.37	27.52	-5353.3	14.15	2699.1	30.20	-125.4

		-9.62	-27.52	-5106.1	-14.15	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	52.37	27.52	-5353.3	14.15	2699.1	30.20	-125.4
		-9.62	-27.52	-5106.1	-14.15	457423847424.0	0.00	0.0
	SLD -	42.12	18.82	-7107.3	12.98	2475.4	19.41	-157.2
		-19.53	-36.87	-6903.0	-15.00	457423847424.0	0.00	0.0
	SLD +	62.28	36.87	-3718.8	15.00	2859.4	40.63	-91.2
		0.63	-18.82	-3434.0	-12.98	457423847424.0	0.00	0.0
18 44 41 9	SLU Statiche -	79.70	-1.87	300.8	-30.23	-5769.9	38.39	50.7
		-9.82	1.32	202.0	28.81	457423847424.0	0.00	0.0
	SLU Statiche +	80.94	-1.32	399.6	-28.81	-5498.5	39.36	58.2
		-8.58	1.87	310.6	30.23	457423847424.0	0.00	0.0
	SLV -	33.85	-23.74	-4815.7	-22.32	-4256.0	0.26	-334.2
		-30.56	-23.93	-4282.0	18.13	457423847424.0	0.00	0.0
	SLV +	85.27	23.93	4834.8	-18.13	-3462.8	58.96	400.6
		20.86	23.74	4190.5	22.32	457423847424.0	0.00	0.0
	SLE Rare -	60.64	-0.54	53.9	-20.79	-3967.1	30.12	38.8
		-6.76	0.11	-11.9	20.63	457423847424.0	0.00	0.0
	SLE Rare +	61.47	-0.11	139.8	-20.63	-3938.0	30.76	42.3
		-5.94	0.54	67.2	20.79	457423847424.0	0.00	0.0
	SLE Frequenti -	59.70	0.28	-61.8	-20.66	-3943.8	29.79	30.3
		-5.31	-0.46	-111.5	20.37	457423847424.0	0.00	0.0
	SLE Frequenti +	60.02	0.46	-27.4	-20.37	-3888.5	30.03	32.5
		-4.99	-0.28	-79.9	20.66	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	59.75	0.46	-61.8	-20.42	-3898.2	29.84	30.3
		-5.04	-0.46	-111.5	20.42	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	59.75	0.46	-61.8	-20.42	-3898.2	29.84	30.3
		-5.04	-0.46	-111.5	20.42	457423847424.0	0.00	0.0
	SLD -	48.63	-10.03	-2040.1	-21.11	-4027.7	17.13	-123.3
		-15.78	-10.22	-1844.5	19.33	457423847424.0	0.00	0.0
	SLD +	70.49	10.22	2059.2	-19.33	-3691.1	42.09	189.7
		6.08	10.03	1753.1	21.11	457423847424.0	0.00	0.0
10 42 41 9	SLU Statiche -	74.13	-9.80	-362.3	1.88	374.8	21.01	-2258.2
		-16.80	9.14	3447.6	-1.94	457423847424.0	0.00	0.0
	SLU Statiche +	84.72	-9.14	161.2	1.94	387.0	32.75	-1667.6
		-6.20	9.80	4088.0	-1.88	457423847424.0	0.00	0.0
	SLV -	28.49	-36.58	-10168.1	-1.75	-462.4	4.57	-5301.2
		-28.73	-25.80	302.6	-4.01	457423847424.0	0.00	0.0
	SLV +	80.98	25.80	10078.4	4.01	911.4	29.73	3127.3
		23.76	36.58	3885.0	1.75	457423847424.0	0.00	0.0
	SLE Rare -	57.61	-6.90	-179.9	1.17	232.6	19.38	-1512.4
		-10.21	6.15	2396.1	-1.22	457423847424.0	0.00	0.0
	SLE Rare +	62.46	-6.15	-31.6	1.22	244.8	24.27	-1245.3
		-5.36	6.90	2800.7	-1.17	457423847424.0	0.00	0.0
	SLE Frequenti -	53.23	-5.29	-128.1	1.09	215.7	15.08	-1150.1
		-3.58	4.99	1968.4	-1.11	457423847424.0	0.00	0.0
	SLE Frequenti +	55.83	-4.99	-11.2	1.11	220.6	17.92	-1005.3
		-0.98	5.29	2137.0	-1.09	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	53.90	-4.99	-79.1	1.09	215.7	15.96	-1043.3
		-1.65	4.99	1975.1	-1.09	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	53.90	-4.99	-79.1	1.09	215.7	15.96	-1043.3
		-1.65	4.99	1975.1	-1.09	457423847424.0	0.00	0.0
	SLD -	43.55	-18.68	-4355.0	-0.09	-67.4	11.79	-2881.0
		-13.66	-7.90	1330.4	-2.35	457423847424.0	0.00	0.0
	SLD +	65.91	7.90	4265.3	2.35	516.4	22.51	707.1
		8.70	18.68	2857.2	0.09	457423847424.0	0.00	0.0
16 43 44 18	SLU Statiche -	98.08	13.97	-7240.5	-4.24	-824.2	42.65	-4618.3
		-39.56	-14.91	1275.3	4.09	457423847424.0	0.00	0.0
	SLU Statiche +	107.48	14.91	-6923.4	-4.09	-794.9	53.10	-4132.7

		-30.16	-13.97	1930.1	4.24	457423847424.0	0.00	0.0
	SLV -	53.78	-7.56	-11458.3	-5.96	-1327.4	23.97	-5856.7
		-35.21	-29.69	-148.4	-0.02	457423847424.0	0.00	0.0
	SLV +	87.46	29.69	1857.5	0.02	171.3	38.55	425.4
		-1.53	7.56	1338.4	5.96	457423847424.0	0.00	0.0
	SLE Rare -	74.23	10.39	-5195.1	-3.02	-587.0	34.20	-3243.5
		-26.93	-10.91	860.2	2.99	457423847424.0	0.00	0.0
	SLE Rare +	79.18	10.91	-4983.7	-2.99	-581.9	39.15	-2951.9
		-21.98	-10.39	1247.4	3.02	457423847424.0	0.00	0.0
	SLE Frequenti -	69.47	11.26	-4905.2	-3.03	-589.2	29.59	-2784.0
		-19.60	-11.50	457.2	3.00	457423847424.0	0.00	0.0
	SLE Frequenti +	71.85	11.50	-4822.1	-3.00	-582.9	32.18	-2657.8
		-17.22	-11.26	626.8	3.03	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	69.86	11.47	-4829.3	-3.01	-584.8	30.20	-2667.4
		-17.61	-11.47	472.0	3.01	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	69.86	11.47	-4829.3	-3.01	-584.8	30.20	-2667.4
		-17.61	-11.47	472.0	3.01	457423847424.0	0.00	0.0
	SLD -	63.47	3.16	-7627.1	-4.24	-897.1	28.17	-4048.7
		-25.52	-18.98	278.1	1.70	457423847424.0	0.00	0.0
	SLD +	77.77	18.98	-1973.7	-1.70	-259.0	34.36	-1382.5
		-11.22	-3.16	911.9	4.24	457423847424.0	0.00	0.0
26 46 44 18	SLU Statiche -	84.19	21.85	-4544.1	-27.15	-5188.5	55.80	-251.1
		-14.33	-22.60	-4042.0	25.94	457423847424.0	0.00	0.0
	SLU Statiche +	85.45	22.60	-4395.5	-25.94	-4957.0	56.86	-243.2
		-13.07	-21.85	-3908.8	27.15	457423847424.0	0.00	0.0
	SLV -	40.23	-6.08	-7577.7	-19.75	-3771.4	13.04	-490.3
		-30.53	-37.52	-6682.1	16.79	457423847424.0	0.00	0.0
	SLV +	85.24	37.52	1257.7	-16.79	-3213.3	70.83	143.3
		14.48	6.08	1055.9	19.75	457423847424.0	0.00	0.0
	SLE Rare -	63.76	15.81	-3206.9	-18.74	-3580.9	42.51	-176.7
		-9.89	-15.95	-2853.6	18.61	457423847424.0	0.00	0.0
	SLE Rare +	64.60	15.95	-3180.8	-18.61	-3557.0	43.22	-176.1
		-9.05	-15.81	-2828.5	18.74	457423847424.0	0.00	0.0
	SLE Frequenti -	62.92	15.85	-3216.8	-18.64	-3563.4	42.20	-175.7
		-8.53	-16.01	-2865.6	18.40	457423847424.0	0.00	0.0
	SLE Frequenti +	63.24	16.01	-3185.7	-18.40	-3516.3	42.46	-174.1
		-8.21	-15.85	-2837.4	18.64	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	62.98	15.90	-3194.9	-18.44	-3524.2	42.28	-174.4
		-8.27	-15.90	-2846.5	18.44	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	62.98	15.90	-3194.9	-18.44	-3524.2	42.28	-174.4
		-8.27	-15.90	-2846.5	18.44	457423847424.0	0.00	0.0
	SLD -	53.19	6.44	-5040.2	-18.90	-3610.8	29.68	-308.5
		-17.57	-25.00	-4459.4	17.65	457423847424.0	0.00	0.0
	SLD +	72.28	25.00	-1279.9	-17.65	-3373.9	54.19	-38.5
		1.52	-6.44	-1166.8	18.90	457423847424.0	0.00	0.0
26 46 45 23	SLU Statiche -	110.12	-27.14	9586.6	2.91	580.9	50.07	4558.2
		-51.22	25.89	-83.5	-3.00	457423847424.0	0.00	0.0
	SLU Statiche +	119.14	-25.89	9923.5	3.00	598.2	60.28	5033.1
		-42.20	27.14	620.5	-2.91	457423847424.0	0.00	0.0
	SLV -	64.54	-33.55	1016.6	-1.19	-399.1	29.62	46.6
		-40.43	5.15	401.9	-5.29	457423847424.0	0.00	0.0
	SLV +	92.68	-5.15	12273.7	5.29	1215.1	42.61	5921.2
		-12.29	33.55	1014.7	1.19	457423847424.0	0.00	0.0
	SLE Rare -	82.48	-19.39	6882.8	2.09	416.8	39.24	3233.5
		-35.22	18.93	84.6	-2.10	457423847424.0	0.00	0.0
	SLE Rare +	87.47	-18.93	7107.4	2.10	419.0	44.20	3531.2
		-30.23	19.39	467.5	-2.09	457423847424.0	0.00	0.0
	SLE Frequenti -	77.63	-19.84	6663.7	2.05	408.3	34.61	2929.3

		-27.68	19.55	675.5	-2.06	457423847424.0	0.00	0.0
	SLE Frequenti +	79.93	-19.55	6752.3	2.06	411.7	37.14	3054.1
		-25.38	19.84	854.6	-2.05	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	77.93	-19.73	6669.9	2.05	408.4	35.16	2935.0
		-25.68	19.73	828.6	-2.05	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	77.93	-19.73	6669.9	2.05	408.4	35.16	2935.0
		-25.68	19.73	828.6	-2.05	457423847424.0	0.00	0.0
	SLD -	72.64	-25.37	4259.2	0.66	64.0	33.36	1738.9
		-32.32	13.33	578.1	-3.43	457423847424.0	0.00	0.0
	SLD +	84.57	-13.33	9031.0	3.43	752.0	38.87	4228.9
		-20.39	25.37	838.4	-0.66	457423847424.0	0.00	0.0
31 49 46 26	SLU Statiche -	90.65	7.58	-1622.1	-27.18	-5197.2	65.60	-170.4
		-20.90	-7.67	-1291.1	25.98	457423847424.0	0.00	0.0
	SLU Statiche +	92.02	7.67	-1607.2	-25.98	-4966.5	66.70	-165.4
		-19.53	-7.58	-1270.8	27.18	457423847424.0	0.00	0.0
	SLV -	45.60	-16.31	-5329.9	-19.72	-3766.3	20.45	-412.6
		-34.30	-26.13	-4601.3	16.88	457423847424.0	0.00	0.0
	SLV +	89.01	26.13	3236.4	-16.88	-3231.3	77.22	183.2
		9.11	16.31	2963.1	19.72	457423847424.0	0.00	0.0
	SLE Rare -	68.44	4.99	-1088.4	-18.76	-3587.2	49.57	-119.4
		-14.59	-5.10	-851.4	18.65	457423847424.0	0.00	0.0
	SLE Rare +	69.30	5.10	-1065.3	-18.65	-3565.4	50.30	-118.0
		-13.73	-4.99	-831.1	18.76	457423847424.0	0.00	0.0
	SLE Frequenti -	67.48	4.82	-1038.4	-18.66	-3567.5	49.09	-115.2
		-13.10	-4.87	-810.9	18.41	457423847424.0	0.00	0.0
	SLE Frequenti +	67.81	4.87	-1029.1	-18.41	-3520.6	49.37	-114.0
		-12.77	-4.82	-802.9	18.66	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	67.54	4.82	-1029.1	-18.45	-3527.9	49.18	-114.0
		-12.83	-4.82	-802.9	18.45	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	67.54	4.82	-1029.1	-18.45	-3527.9	49.18	-114.0
		-12.83	-4.82	-802.9	18.45	457423847424.0	0.00	0.0
	SLD -	58.11	-4.13	-2871.6	-18.90	-3612.2	36.80	-241.7
		-21.79	-13.95	-2430.5	17.70	457423847424.0	0.00	0.0
	SLD +	76.50	13.95	778.1	-17.70	-3385.4	60.86	12.3
		-3.40	4.13	792.2	18.90	457423847424.0	0.00	0.0
31 49 47 28	SLU Statiche -	104.63	-22.77	8014.4	0.65	162.7	46.59	3722.6
		-45.96	21.77	-57.1	-0.69	457423847424.0	0.00	0.0
	SLU Statiche +	113.88	-21.77	8329.4	0.69	169.5	56.91	4222.8
		-36.70	22.77	625.2	-0.65	457423847424.0	0.00	0.0
	SLV -	59.90	-31.87	-367.2	-2.44	-622.4	26.85	-534.1
		-37.58	0.93	478.5	-3.20	457423847424.0	0.00	0.0
	SLV +	89.83	-0.93	11412.7	3.20	816.7	40.60	5377.8
		-7.65	31.87	941.5	2.44	457423847424.0	0.00	0.0
	SLE Rare -	78.58	-16.28	5709.2	0.40	102.3	36.77	2650.2
		-31.28	15.79	80.5	-0.43	457423847424.0	0.00	0.0
	SLE Rare +	83.53	-15.79	5919.2	0.43	109.9	41.68	2939.1
		-26.33	16.28	459.9	-0.40	457423847424.0	0.00	0.0
	SLE Frequenti -	73.85	-16.81	5540.7	0.35	91.4	32.22	2363.3
		-23.94	16.56	670.3	-0.37	457423847424.0	0.00	0.0
	SLE Frequenti +	76.19	-16.56	5623.5	0.37	94.4	34.77	2492.3
		-21.60	16.81	844.7	-0.35	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	74.22	-16.76	5546.7	0.35	91.4	32.81	2376.7
		-21.97	16.76	822.1	-0.35	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	74.22	-16.76	5546.7	0.35	91.4	32.81	2376.7
		-21.97	16.76	822.1	-0.35	457423847424.0	0.00	0.0
	SLD -	68.53	-22.96	3026.2	-0.82	-209.6	30.81	1168.9
		-28.96	9.84	611.5	-1.58	457423847424.0	0.00	0.0
	SLD +	81.21	-9.84	8019.4	1.58	403.8	36.64	3674.8

		-16.28	22.96	808.5	0.82	457423847424.0	0.00	0.0
30 48 52 34	SLU Statiche -	83.79	4.07	-3256.7	0.34	18.6	31.20	-2512.1
		-25.98	-4.71	1101.7	-0.43	457423847424.0	0.00	0.0
	SLU Statiche +	93.91	4.71	-2754.1	0.43	34.1	42.21	-1948.8
		-15.87	-4.07	1709.2	-0.34	457423847424.0	0.00	0.0
	SLV -	42.48	-16.71	-9379.4	-2.55	-664.8	15.67	-4645.8
		-27.30	-25.03	-181.1	-3.37	457423847424.0	0.00	0.0
	SLV +	79.55	25.03	5320.7	3.37	764.3	31.36	2138.2
		9.77	16.71	1077.9	2.55	457423847424.0	0.00	0.0
	SLE Rare -	64.10	2.80	-2205.5	0.32	28.0	26.09	-1693.1
		-16.61	-3.45	752.8	-0.39	457423847424.0	0.00	0.0
	SLE Rare +	68.86	3.45	-2053.1	0.39	42.0	30.89	-1425.0
		-11.85	-2.80	1141.9	-0.32	457423847424.0	0.00	0.0
	SLE Frequenti -	59.76	4.20	-2101.3	0.44	55.3	21.83	-1317.9
		-10.01	-4.47	343.5	-0.47	457423847424.0	0.00	0.0
	SLE Frequenti +	62.26	4.47	-1986.8	0.47	60.8	24.52	-1178.4
		-7.51	-4.20	503.9	-0.44	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	60.35	4.47	-2045.1	0.47	60.8	22.60	-1210.6
		-8.10	-4.47	348.3	-0.47	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	60.35	4.47	-2045.1	0.47	60.8	22.60	-1210.6
		-8.10	-4.47	348.3	-0.47	457423847424.0	0.00	0.0
	SLD -	53.14	-4.71	-5153.6	-0.84	-253.9	20.18	-2695.4
		-16.64	-13.03	180.3	-1.67	457423847424.0	0.00	0.0
	SLD +	68.89	13.03	1094.9	1.67	353.4	26.84	187.7
		-0.89	4.71	716.6	0.84	457423847424.0	0.00	0.0
34 52 49 31	SLU Statiche -	95.81	-7.65	1236.0	-28.04	-5361.1	68.88	-86.2
		-26.25	6.94	1402.4	26.78	457423847424.0	0.00	0.0
	SLU Statiche +	97.37	-6.94	1372.6	-26.78	-5119.7	70.06	-82.6
		-24.69	7.65	1535.2	28.04	457423847424.0	0.00	0.0
	SLV -	47.80	-28.24	-3375.0	-20.45	-3904.9	21.93	-364.9
		-39.15	-16.26	-2805.2	17.27	457423847424.0	0.00	0.0
	SLV +	93.86	16.26	5554.0	-17.27	-3306.4	79.90	262.4
		6.90	28.24	5181.5	20.45	457423847424.0	0.00	0.0
	SLE Rare -	72.14	-6.00	1021.1	-19.35	-3699.5	51.79	-59.1
		-18.36	5.67	1135.1	19.23	457423847424.0	0.00	0.0
	SLE Rare +	73.07	-5.67	1086.2	-19.23	-3677.4	52.59	-55.2
		-17.43	6.00	1192.7	19.35	457423847424.0	0.00	0.0
	SLE Frequenti -	70.98	-6.35	1125.3	-19.23	-3676.8	51.12	-50.9
		-16.64	6.18	1223.3	18.97	457423847424.0	0.00	0.0
	SLE Frequenti +	71.34	-6.18	1159.1	-18.97	-3627.8	51.43	-49.3
		-16.27	6.35	1255.7	19.23	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	71.03	-6.31	1151.3	-19.01	-3635.1	51.20	-49.3
		-16.33	6.31	1246.4	19.01	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	71.03	-6.31	1151.3	-19.01	-3635.1	51.20	-49.3
		-16.33	6.31	1246.4	19.01	457423847424.0	0.00	0.0
	SLD -	61.05	-15.45	-807.3	-19.53	-3732.8	38.60	-185.0
		-25.90	-3.46	-507.9	18.18	457423847424.0	0.00	0.0
	SLD +	80.61	3.46	2986.3	-18.18	-3478.6	63.23	82.5
		-6.34	15.45	2884.3	19.53	457423847424.0	0.00	0.0
35 53 50 32	SLU Statiche -	63.70	9.20	-819.1	4.43	931.7	16.93	1156.1
		-6.21	-10.27	-3610.8	-4.78	457423847424.0	0.00	0.0
	SLU Statiche +	74.13	10.27	-260.6	4.78	1004.3	28.08	1706.8
		4.22	-9.20	-3083.9	-4.43	457423847424.0	0.00	0.0
	SLV -	19.36	-25.09	-10464.8	0.40	30.9	1.24	-3495.7
		-22.96	-36.63	-3486.6	-5.45	457423847424.0	0.00	0.0
	SLV +	75.21	36.63	9732.3	5.45	1202.1	26.18	4990.2
		32.89	25.09	-168.1	-0.40	457423847424.0	0.00	0.0
	SLE Rare -	49.86	6.91	-452.6	3.18	669.1	15.96	877.7

		-2.19	-7.64	-2551.2	-3.31	457423847424.0	0.00	0.0
	SLE Rare +	54.44	7.64	-352.5	3.31	695.9	20.58	1120.7
		2.39	-6.91	-2172.0	-3.18	457423847424.0	0.00	0.0
	SLE Frequenti -	45.78	5.67	-478.8	2.87	605.5	11.94	659.4
		3.92	-5.97	-1910.6	-2.96	457423847424.0	0.00	0.0
	SLE Frequenti +	48.33	5.97	-357.1	2.96	622.5	14.63	793.9
		6.47	-5.67	-1758.9	-2.87	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	46.49	5.67	-397.1	2.87	605.5	12.78	696.7
		5.76	-5.67	-1758.9	-2.87	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	46.49	5.67	-397.1	2.87	605.5	12.78	696.7
		5.76	-5.67	-1758.9	-2.87	457423847424.0	0.00	0.0
	SLD -	35.41	-7.35	-4661.8	1.86	368.2	8.41	-1058.0
		-6.91	-18.90	-2532.4	-4.00	457423847424.0	0.00	0.0
	SLD +	59.16	18.90	3929.3	4.00	864.8	19.01	2552.4
		16.84	7.35	-1122.4	-1.86	457423847424.0	0.00	0.0
36 54 51 33	SLU Statiche -	112.63	-6.16	-762.3	10.33	2095.4	59.98	-1932.9
		-48.82	5.58	2669.4	-10.85	457423847424.0	0.00	0.0
	SLU Statiche +	116.74	-5.58	-458.5	10.85	2200.8	64.54	-1559.3
		-44.71	6.16	3103.3	-10.33	457423847424.0	0.00	0.0
	SLV -	54.77	-50.90	-16324.2	5.30	1210.6	35.70	-8087.7
		-54.42	-43.45	-192.9	-9.24	457423847424.0	0.00	0.0
	SLV +	106.67	43.45	14986.1	9.24	1732.7	50.34	5337.6
		-2.52	50.90	4359.8	-5.30	457423847424.0	0.00	0.0
	SLE Rare -	83.78	-4.06	-568.9	7.59	1537.0	45.60	-1330.6
		-34.73	3.90	1968.7	-7.69	457423847424.0	0.00	0.0
	SLE Rare +	86.98	-3.90	-427.4	7.69	1560.4	48.75	-1195.3
		-31.53	4.06	2097.5	-7.59	457423847424.0	0.00	0.0
	SLE Frequenti -	80.11	-3.97	-684.4	7.27	1470.8	42.18	-1439.4
		-29.14	3.85	2094.0	-7.37	457423847424.0	0.00	0.0
	SLE Frequenti +	81.39	-3.85	-609.8	7.37	1492.1	43.44	-1351.1
		-27.86	3.97	2193.7	-7.27	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	80.11	-3.90	-665.2	7.27	1470.8	42.18	-1405.3
		-27.86	3.90	2145.5	-7.27	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	80.11	-3.90	-665.2	7.27	1470.8	42.18	-1405.3
		-27.86	3.90	2145.5	-7.27	457423847424.0	0.00	0.0
	SLD -	69.68	-23.82	-7338.5	6.43	1360.8	39.92	-4234.8
		-39.51	-16.37	1113.8	-8.11	457423847424.0	0.00	0.0
	SLD +	91.76	16.37	6000.4	8.11	1582.5	46.12	1484.8
		-17.43	23.82	3053.1	-6.43	457423847424.0	0.00	0.0
35 53 52 34	SLU Statiche -	88.37	7.44	-1114.3	-27.92	-5335.4	53.16	453.9
		-18.73	-8.30	-2039.4	26.68	457423847424.0	0.00	0.0
	SLU Statiche +	89.85	8.30	-969.5	-26.68	-5097.7	54.34	474.3
		-17.25	-7.44	-1859.3	27.92	457423847424.0	0.00	0.0
	SLV -	37.86	-20.07	-5095.9	-20.89	-3988.4	7.08	161.7
		-38.11	-27.77	-5457.9	16.69	457423847424.0	0.00	0.0
	SLV +	92.82	27.77	4282.1	-16.69	-3191.8	71.88	504.1
		16.85	20.07	3344.9	20.89	457423847424.0	0.00	0.0
	SLE Rare -	66.58	4.76	-708.6	-19.28	-3683.5	40.07	336.5
		-12.86	-5.46	-1365.1	19.17	457423847424.0	0.00	0.0
	SLE Rare +	67.57	5.46	-574.7	-19.17	-3663.7	40.86	338.5
		-11.87	-4.76	-1235.1	19.28	457423847424.0	0.00	0.0
	SLE Frequenti -	65.47	3.43	-380.6	-19.14	-3658.1	39.63	333.0
		-11.15	-3.71	-1031.9	18.89	457423847424.0	0.00	0.0
	SLE Frequenti +	65.86	3.71	-327.1	-18.89	-3609.9	39.93	337.3
		-10.76	-3.43	-978.2	19.14	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	65.52	3.43	-327.1	-18.93	-3616.6	39.67	333.8
		-10.81	-3.43	-978.2	18.93	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	65.52	3.43	-327.1	-18.93	-3616.6	39.67	333.8

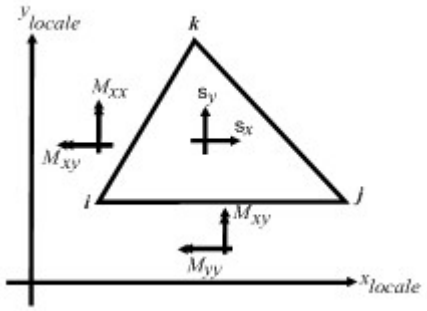
		-10.81	-3.43	-978.2	18.93	457423847424.0	0.00	0.0
	SLD -	53.65	-6.29	-2394.8	-19.68	-3759.6	25.70	260.2
		-22.32	-13.99	-2922.4	17.89	457423847424.0	0.00	0.0
	SLD +	77.03	13.99	1581.0	-17.89	-3420.6	53.27	405.5
		1.06	6.29	809.4	19.68	457423847424.0	0.00	0.0
36 54 53 35	SLU Statiche -	111.12	57.63	-14662.2	-29.64	-5668.5	73.15	-3072.2
		-42.18	-61.00	-8518.1	28.64	457423847424.0	0.00	0.0
	SLU Statiche +	113.30	61.00	-13903.9	-28.64	-5475.6	74.68	-2954.9
		-40.00	-57.63	-7994.1	29.64	457423847424.0	0.00	0.0
	SLV -	39.80	23.22	-12603.6	-23.37	-4457.9	11.37	-3495.6
		-68.29	-56.04	-9316.8	17.09	457423847424.0	0.00	0.0
	SLV +	123.00	56.04	-6651.4	-17.09	-3277.7	94.98	-700.6
		14.90	-23.22	-1546.8	23.37	457423847424.0	0.00	0.0
	SLE Rare -	83.22	41.92	-10337.4	-20.60	-3938.5	54.70	-2181.6
		-29.53	-42.92	-5972.7	20.48	457423847424.0	0.00	0.0
	SLE Rare +	84.24	42.92	-10127.5	-20.48	-3916.8	55.62	-2162.6
		-28.51	-41.92	-5801.8	20.60	457423847424.0	0.00	0.0
	SLE Frequenti -	81.45	39.42	-9745.4	-20.55	-3928.7	53.17	-2117.9
		-27.18	-40.14	-5509.4	20.34	457423847424.0	0.00	0.0
	SLE Frequenti +	81.89	40.14	-9584.0	-20.34	-3889.4	53.53	-2093.4
		-26.74	-39.42	-5396.7	20.55	457423847424.0	0.00	0.0
	SLE Quasi Permanenti -	81.47	39.42	-9584.0	-20.38	-3896.7	53.17	-2093.4
		-26.76	-39.42	-5396.7	20.38	457423847424.0	0.00	0.0
	SLE Quasi Permanenti +	81.47	39.42	-9584.0	-20.38	-3896.7	53.17	-2093.4
		-26.76	-39.42	-5396.7	20.38	457423847424.0	0.00	0.0
	SLD -	63.68	32.67	-10888.9	-21.57	-4119.2	35.36	-2693.9
		-44.42	-46.59	-7083.2	18.89	457423847424.0	0.00	0.0
	SLD +	99.12	46.59	-8366.1	-18.89	-3616.4	70.99	-1502.4
		-8.97	-32.67	-3780.4	21.57	457423847424.0	0.00	0.0

Sollecitazioni negli elementi triangolari

Convenzioni adottate

Nel seguito sono riportate le sollecitazioni indotte negli elementi triangolari come tensioni, momenti e tagli medi valutati nel centro dell'elemento. Per una dettagliata spiegazione sui presupposti teorici, il campo di applicazione e le modalità di impiego si rimanda all'apposito capitolo del manuale teorico in dotazione al programma.

Il sistema di riferimento locale dell'elemento risulta essere cosi diposto:



- L'asse $\mathbf{x}_{locale}$ ha direzione parallela alla retta congiungente i nodi **i** e **j**, è passante per i medesimi nodi ed ha verso positivo da **i** a **j**.
- L'asse $\mathbf{y}_{locale}$ è ortogonale all'asse $\mathbf{x}_{locale}$, passa per il nodo **i** ed ha verso positivo dalla parte del nodo **k**.
- L'asse $\mathbf{z}_{locale}$ è ottenuto per prodotto vettoriale fra $\mathbf{x}_{locale}$ e $\mathbf{y}_{locale}$.

Nodi Ni - Nj - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
128 47 49	SLU Statiche -	-0.9	2.8	0.4	-1.0	2.8	-6.29
	SLU Statiche +	-0.7	2.9	0.4	-0.8	2.9	-6.06
	SLV -	-0.4	0.3	-0.5	-0.7	0.6	-13.91
	SLV +	-0.4	3.4	1.0	-0.4	3.6	26.79
	SLE Rare -	-0.6	2.0	0.3	-0.6	2.0	-6.29
	SLE Rare +	-0.5	2.1	0.3	-0.5	2.1	-6.17
	SLE Frequenti -	-0.5	1.8	0.3	-0.5	1.9	-6.41
	SLE Frequenti +	-0.4	1.9	0.3	-0.4	1.9	-6.32
	SLE Quasi Permanenti -	-0.4	1.8	0.3	-0.4	1.9	-6.38
	SLE Quasi Permanenti +	-0.4	1.8	0.3	-0.4	1.9	-6.38
	SLD -	-0.4	1.2	-0.1	-0.5	1.2	-10.71
	SLD +	-0.4	2.5	0.6	-0.4	2.6	2.20
53 132 50	SLU Statiche -	0.5	-0.6	1.0	1.1	-1.2	29.30
	SLU Statiche +	0.6	-0.4	1.0	1.2	-1.0	32.17
	SLV -	-2.3	-0.6	0.2	-2.6	-0.8	-37.71
	SLV +	2.9	0.1	1.0	3.0	0.6	25.61
	SLE Rare -	0.4	-0.4	0.7	0.8	-0.8	30.21
	SLE Rare +	0.4	-0.3	0.7	0.8	-0.7	31.89
	SLE Frequenti -	0.3	-0.3	0.6	0.7	-0.7	32.42
	SLE Frequenti +	0.3	-0.2	0.6	0.8	-0.6	33.63
	SLE Quasi Permanenti -	0.3	-0.2	0.6	0.7	-0.6	33.25
	SLE Quasi Permanenti +	0.3	-0.2	0.6	0.7	-0.6	33.25
	SLD -	-0.8	-0.4	0.5	-1.3	-0.8	-41.82
	SLD +	1.4	-0.1	0.8	1.6	0.6	42.36
46 45 123	SLU Statiche -	3.1	-0.9	0.6	3.2	-1.0	8.11
	SLU Statiche +	3.3	-0.8	0.6	3.4	-0.8	8.50
	SLV -	0.5	-0.5	-0.4	0.6	-0.8	-19.35
	SLV +	3.7	-0.4	1.2	4.0	-0.4	14.63
	SLE Rare -	2.2	-0.6	0.4	2.3	-0.7	8.28
	SLE Rare +	2.3	-0.5	0.4	2.4	-0.6	8.50
	SLE Frequenti -	2.1	-0.5	0.4	2.2	-0.5	8.56
	SLE Frequenti +	2.1	-0.4	0.4	2.2	-0.5	8.71
	SLE Quasi Permanenti -	2.1	-0.4	0.4	2.2	-0.5	8.66
	SLE Quasi Permanenti +	2.1	-0.4	0.4	2.2	-0.5	8.66
	SLD -	1.4	-0.4	0.1	1.4	-0.6	2.11
	SLD +	2.8	-0.4	0.7	2.9	-0.4	12.03
41 110 42	SLU Statiche -	0.4	-0.8	1.0	1.0	-1.4	29.59
	SLU Statiche +	0.5	-0.6	1.1	1.1	-1.2	32.69
	SLV -	-2.2	-0.7	0.3	-2.6	-0.7	-31.93
	SLV +	2.7	-0.0	1.1	2.7	0.4	12.11
	SLE Rare -	0.3	-0.5	0.7	0.7	-1.0	30.39
	SLE Rare +	0.3	-0.4	0.8	0.8	-0.9	32.16
	SLE Frequenti -	0.2	-0.4	0.7	0.7	-0.8	32.61
	SLE Frequenti +	0.3	-0.3	0.7	0.7	-0.8	33.90
	SLE Quasi Permanenti -	0.2	-0.3	0.7	0.7	-0.8	33.48
	SLE Quasi Permanenti +	0.2	-0.3	0.7	0.7	-0.8	33.48
	SLD -	-0.8	-0.5	0.5	-1.4	-0.7	-44.19
	SLD +	1.3	-0.2	0.8	1.4	0.5	21.96
39 40 106	SLU Statiche -	-0.1	-1.4	-0.8	0.3	-1.7	-26.98
	SLU Statiche +	0.1	-1.2	-0.7	0.4	-1.6	-22.33
	SLV -	-2.0	-0.8	-1.5	-3.0	-0.8	-7.76

Nodi Ni - Nj - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLV +	1.9	-0.7	0.4	2.0	0.2	44.22
	SLE Rare -	-0.0	-0.9	-0.5	0.3	-1.2	-26.88
	SLE Rare +	0.0	-0.8	-0.5	0.3	-1.1	-24.23
	SLE Frequenti -	-0.1	-0.8	-0.5	0.2	-1.0	-29.53
	SLE Frequenti +	-0.0	-0.7	-0.5	0.2	-1.0	-27.67
	SLE Quasi Permanenti -	-0.1	-0.7	-0.5	0.2	-1.0	-28.95
	SLE Quasi Permanenti +	-0.1	-0.7	-0.5	0.2	-1.0	-28.95
	SLD -	-0.9	-0.7	-0.9	-1.7	-1.6	-44.76
	SLD +	0.8	-0.7	-0.1	0.8	0.1	44.85
44 43 116	SLU Statiche -	2.8	-1.0	0.4	2.8	-1.0	5.60
	SLU Statiche +	2.9	-0.8	0.4	3.0	-0.9	5.80
	SLV -	0.3	-0.5	-0.5	0.6	-0.8	-26.05
	SLV +	3.4	-0.5	1.0	3.7	-0.5	13.77
	SLE Rare -	2.0	-0.7	0.3	2.0	-0.7	5.77
	SLE Rare +	2.1	-0.6	0.3	2.1	-0.6	5.87
	SLE Frequenti -	1.9	-0.5	0.2	1.9	-0.5	5.89
	SLE Frequenti +	1.9	-0.5	0.3	1.9	-0.5	5.97
	SLE Quasi Permanenti -	1.9	-0.5	0.2	1.9	-0.5	5.93
	SLE Quasi Permanenti +	1.9	-0.5	0.2	1.9	-0.5	5.93
	SLD -	1.2	-0.5	-0.1	1.2	-0.6	-2.74
	SLD +	2.5	-0.5	0.6	2.6	-0.5	10.41
52 130 48	SLU Statiche -	1.7	-0.7	0.8	1.9	-0.9	16.39
	SLU Statiche +	1.8	-0.5	0.8	2.1	-0.8	17.30
	SLV -	-0.8	-0.6	0.2	-1.3	-0.8	-36.33
	SLV +	3.0	-0.0	0.8	3.1	0.5	42.99
	SLE Rare -	1.2	-0.5	0.5	1.4	-0.6	16.66
	SLE Rare +	1.3	-0.4	0.6	1.4	-0.5	17.18
	SLE Frequenti -	1.1	-0.3	0.5	1.3	-0.5	17.33
	SLE Frequenti +	1.1	-0.3	0.5	1.3	-0.4	17.72
	SLE Quasi Permanenti -	1.1	-0.3	0.5	1.3	-0.4	17.59
	SLE Quasi Permanenti +	1.1	-0.3	0.5	1.3	-0.4	17.59
	SLD -	0.3	-0.4	0.4	0.7	-0.6	8.52
	SLD +	1.9	-0.2	0.6	2.0	-0.5	34.92
54 133 51	SLU Statiche -	1.2	-0.4	0.6	1.4	-0.6	18.68
	SLU Statiche +	1.3	-0.3	0.6	1.5	-0.5	19.65
	SLV -	-1.9	-0.5	-0.2	-2.3	-0.7	-42.53
	SLV +	3.4	0.2	1.0	3.4	0.7	44.27
	SLE Rare -	0.8	-0.3	0.4	1.0	-0.4	18.97
	SLE Rare +	0.9	-0.2	0.5	1.0	-0.4	19.91
	SLE Frequenti -	0.8	-0.2	0.4	0.9	-0.4	20.66
	SLE Frequenti +	0.8	-0.2	0.4	0.9	-0.3	21.14
	SLE Quasi Permanenti -	0.8	-0.2	0.4	0.9	-0.3	21.14
	SLE Quasi Permanenti +	0.8	-0.2	0.4	0.9	-0.3	21.14
	SLD -	-0.4	-0.3	0.2	-0.9	-0.7	-44.49
	SLD +	1.9	-0.0	0.7	1.9	0.5	43.07
37 38 102	SLU Statiche -	2.2	-0.8	0.5	2.3	-0.9	8.75
	SLU Statiche +	2.3	-0.7	0.5	2.4	-0.8	9.25
	SLV -	-0.3	-0.5	-0.6	0.2	-1.0	-39.22
	SLV +	3.3	-0.4	1.2	3.6	-0.4	16.74
	SLE Rare -	1.6	-0.6	0.3	1.7	-0.6	8.89
	SLE Rare +	1.7	-0.5	0.4	1.8	-0.6	9.02

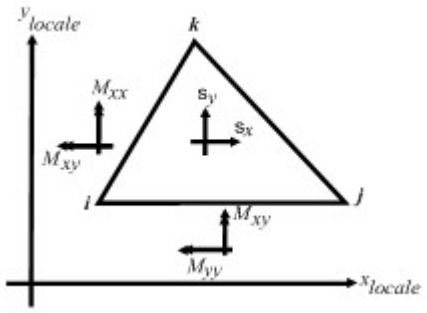
Nodi Ni - Nj - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLE Frequenti -	1.5	-0.5	0.3	1.5	-0.5	8.55
	SLE Frequenti +	1.5	-0.4	0.3	1.6	-0.5	8.71
	SLE Quasi Permanenti -	1.5	-0.5	0.3	1.5	-0.5	8.56
	SLE Quasi Permanenti +	1.5	-0.5	0.3	1.5	-0.5	8.56
	SLD -	0.8	-0.5	-0.1	0.8	-0.6	-3.78
	SLD +	2.3	-0.4	0.7	2.4	-0.5	13.54

Sollecitazioni negli elementi triangolari

Convenzioni adottate

Nel seguito sono riportate le sollecitazioni indotte negli elementi triangolari come tensioni, momenti e tagli medi valutati nel centro dell'elemento. Per una dettagliata spiegazione sui presupposti teorici, il campo di applicazione e le modalità di impiego si rimanda all'apposito capitolo del manuale teorico in dotazione al programma.

Il sistema di riferimento locale dell'elemento risulta essere cosi diposto:



- L'asse $\mathbf{x}_{locale}$ ha direzione parallela alla retta congiungente i nodi **i** e **j**, è passante per i medesimi nodi ed ha verso positivo da **i** a **j**.
- L'asse $\mathbf{y}_{locale}$ è ortogonale all'asse $\mathbf{x}_{locale}$, passa per il nodo **i** ed ha verso positivo dalla parte del nodo **k**.
- L'asse $\mathbf{z}_{locale}$ è ottenuto per prodotto vettoriale fra $\mathbf{x}_{locale}$ e $\mathbf{y}_{locale}$.

Nodi Ni - Nj - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
128 - 47 - 49	SLU Statiche -	0.66	-0.13	-0.01	-98.5	-37.1	0.66	-0.13	-0.84
	SLU Statiche +	0.69	-0.12	0.01	-92.9	-34.5	0.69	-0.12	0.58
	SLV -	-1.34	-3.06	-4.81	-1027.6	-549.1	-4.43	-5.84	24.54
	SLV +	2.24	2.94	4.73	910.7	508.1	4.98	6.08	35.84
	SLE Rare -	0.47	-0.09	-0.02	-68.8	-25.6	0.47	-0.09	-2.10
	SLE Rare +	0.49	-0.08	-0.00	-64.5	-23.5	0.49	-0.08	-0.43
	SLE Frequenti -	0.45	-0.06	-0.04	-58.8	-20.7	0.45	-0.06	-4.93
	SLE Frequenti +	0.45	-0.06	-0.04	-57.1	-19.8	0.45	-0.06	-4.15
	SLE Quasi Permanenti -	0.45	-0.06	-0.04	-57.1	-19.8	0.45	-0.06	-4.93
	SLE Quasi Permanenti +	0.45	-0.06	-0.04	-57.1	-19.8	0.45	-0.06	-4.93
	SLD -	-0.31	-1.34	-2.07	-471.3	-245.7	-1.74	-2.43	19.58
	SLD +	1.21	1.22	1.99	354.4	204.7	2.29	2.67	41.93
53 - 132 - 50	SLU Statiche -	-0.11	1.00	-0.87	116.6	-232.3	-0.58	1.43	27.70
	SLU Statiche +	-0.10	1.06	-0.81	123.1	-221.0	-0.52	1.50	28.60
	SLV -	-0.51	-0.45	-5.67	-437.8	-932.2	-6.16	1.54	-40.94
	SLV +	0.38	1.86	4.69	586.4	646.5	-0.44	5.87	44.87
	SLE Rare -	-0.08	0.73	-0.60	81.8	-165.0	-0.40	1.02	27.06
	SLE Rare +	-0.07	0.74	-0.55	87.2	-155.8	-0.35	1.06	27.97

Nodi Ni - Nj - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLE Frequenti -	-0.07	0.70	-0.50	72.8	-143.9	-0.31	0.93	25.87
	SLE Frequenti +	-0.06	0.71	-0.48	75.0	-140.3	-0.30	0.95	26.33
	SLE Quasi Permanenti -	-0.06	0.70	-0.48	72.8	-140.3	-0.30	0.93	25.87
	SLE Quasi Permanenti +	-0.06	0.70	-0.48	72.8	-140.3	-0.30	0.93	25.87
	SLD -	-0.25	0.21	-2.70	-143.8	-479.1	-2.73	0.85	-36.34
	SLD +	0.12	1.19	1.71	292.4	193.4	-0.02	2.69	42.55
46 - 45 - 123	SLU Statiche -	-0.29	-0.72	0.60	18.3	-3.0	0.14	-1.15	35.37
	SLU Statiche +	-0.28	-0.69	0.61	18.6	-1.6	0.15	-1.12	35.60
	SLV -	-3.13	-2.38	-4.30	-514.9	-970.8	-6.52	-4.80	-36.35
	SLV +	2.72	1.40	5.17	543.2	972.0	5.18	4.75	-20.52
	SLE Rare -	-0.21	-0.51	0.44	13.7	-1.2	0.11	-0.82	35.59
	SLE Rare +	-0.21	-0.50	0.44	13.9	-0.6	0.11	-0.82	35.73
	SLE Frequenti -	-0.21	-0.49	0.43	14.0	0.2	0.11	-0.81	35.93
	SLE Frequenti +	-0.21	-0.49	0.44	14.1	0.5	0.11	-0.80	36.00
	SLE Quasi Permanenti -	-0.21	-0.49	0.43	14.0	0.5	0.11	-0.80	36.00
	SLE Quasi Permanenti +	-0.21	-0.49	0.43	14.0	0.5	0.11	-0.80	36.00
	SLD -	-1.45	-1.29	-1.58	-211.3	-413.3	-3.18	-2.08	-40.00
	SLD +	1.04	0.32	2.45	239.5	414.4	1.84	2.03	-4.37
41 - 110 - 42	SLU Statiche -	0.31	1.41	1.88	-174.5	215.4	-1.14	2.82	-36.92
	SLU Statiche +	0.33	1.47	1.96	-167.6	224.5	-1.09	2.94	-36.83
	SLV -	-0.20	-0.23	-4.05	-648.7	-668.8	-5.24	-4.26	-44.87
	SLV +	0.63	2.26	6.64	419.8	960.0	3.83	8.13	44.98
	SLE Rare -	0.23	1.05	1.36	-123.7	153.7	-0.81	2.06	-36.73
	SLE Rare +	0.23	1.06	1.39	-120.3	158.6	-0.78	2.10	-36.60
	SLE Frequenti -	0.22	1.01	1.29	-114.9	143.9	-0.74	1.96	-36.45
	SLE Frequenti +	0.22	1.03	1.30	-113.3	146.1	-0.73	1.99	-36.39
	SLE Quasi Permanenti -	0.22	1.01	1.29	-113.3	143.9	-0.73	1.96	-36.39
	SLE Quasi Permanenti +	0.22	1.01	1.29	-113.3	143.9	-0.73	1.96	-36.39
	SLD -	0.04	0.48	-0.98	-342.0	-201.3	-2.65	0.76	-40.72
	SLD +	0.39	1.54	3.57	113.1	492.5	0.10	4.59	38.64
39 - 40 - 106	SLU Statiche -	-1.28	0.28	1.74	188.8	328.8	-2.45	1.43	-33.21
	SLU Statiche +	-1.24	0.31	1.79	195.6	340.8	-2.38	1.48	-33.09
	SLV -	-5.29	-0.76	-4.90	-484.9	-885.1	-10.09	-3.83	-34.32
	SLV +	3.61	1.11	7.28	740.6	1327.9	6.84	5.75	-28.53
	SLE Rare -	-0.91	0.20	1.25	134.6	233.8	-1.75	1.01	-33.31
	SLE Rare +	-0.88	0.21	1.29	139.0	242.1	-1.70	1.05	-33.22
	SLE Frequenti -	-0.84	0.17	1.18	126.5	218.9	-1.64	0.95	-33.51
	SLE Frequenti +	-0.83	0.17	1.20	128.3	222.2	-1.61	0.96	-33.46
	SLE Quasi Permanenti -	-0.83	0.17	1.18	126.5	218.9	-1.61	0.95	-33.51
	SLE Quasi Permanenti +	-0.83	0.17	1.18	126.5	218.9	-1.61	0.95	-33.51
	SLD -	-2.74	-0.23	-1.40	-133.1	-249.9	-5.23	-1.08	-35.14
	SLD +	1.06	0.57	3.78	388.8	692.7	1.98	3.00	-16.19
44 - 43 - 116	SLU Statiche -	-0.78	-0.67	1.31	85.8	116.5	-2.09	0.61	-43.85
	SLU Statiche +	-0.76	-0.65	1.36	88.4	119.8	-2.02	0.63	-43.71
	SLV -	-3.48	-2.34	-3.84	-471.7	-893.9	-7.22	-4.44	-36.43
	SLV +	2.43	1.39	5.67	588.8	1050.5	4.57	5.09	-11.21
	SLE Rare -	-0.55	-0.48	0.95	61.0	82.0	-1.48	0.43	-44.04
	SLE Rare +	-0.54	-0.48	0.96	62.7	84.8	-1.46	0.45	-43.88
	SLE Frequenti -	-0.53	-0.48	0.91	57.8	76.9	-1.42	0.41	-44.27
	SLE Frequenti +	-0.52	-0.47	0.92	58.5	78.0	-1.41	0.42	-44.20
	SLE Quasi Permanenti -	-0.52	-0.48	0.91	57.8	76.9	-1.41	0.41	-44.27

Nodi Ni - Nj - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLE Quasi Permanenti +	-0.52	-0.48	0.91	57.8	76.9	-1.41	0.41	-44.27
	SLD -	-1.78	-1.27	-1.11	-167.3	-335.9	-3.86	-1.74	-38.79
	SLD +	0.73	0.32	2.94	284.4	492.4	1.23	2.38	28.15
52 - 130 - 48	SLU Statiche -	-0.11	0.46	-0.73	81.7	-163.2	-0.61	0.92	33.88
	SLU Statiche +	-0.10	0.46	-0.68	87.0	-154.1	-0.56	0.96	34.33
	SLV -	-0.24	-0.40	-5.28	-443.4	-862.1	-5.21	-5.59	-44.78
	SLV +	0.10	1.04	4.42	547.1	663.0	4.97	5.00	44.94
	SLE Rare -	-0.08	0.32	-0.51	57.2	-114.5	-0.42	0.64	33.66
	SLE Rare +	-0.07	0.33	-0.48	60.9	-108.6	-0.40	0.68	34.10
	SLE Frequenti -	-0.07	0.31	-0.44	50.8	-100.1	-0.36	0.58	32.95
	SLE Frequenti +	-0.07	0.31	-0.42	52.3	-97.8	-0.35	0.60	33.16
	SLE Quasi Permanenti -	-0.07	0.31	-0.42	50.8	-97.8	-0.35	0.58	32.96
	SLE Quasi Permanenti +	-0.07	0.31	-0.42	50.8	-97.8	-0.35	0.58	32.96
	SLD -	-0.14	0.01	-2.50	-159.1	-424.4	-2.56	0.10	-43.00
	SLD +	0.00	0.62	1.64	262.8	225.3	-0.12	2.44	44.06
54 - 133 - 51	SLU Statiche -	-0.04	1.15	-0.38	95.9	-187.9	-0.15	1.24	13.90
	SLU Statiche +	-0.03	1.21	-0.33	101.9	-179.1	-0.12	1.29	16.27
	SLV -	-0.17	-0.93	-3.98	-355.2	-671.0	-2.45	-4.54	-44.74
	SLV +	0.14	2.63	3.62	475.8	436.5	3.44	5.22	44.37
	SLE Rare -	-0.02	0.87	-0.25	66.6	-134.4	-0.09	0.92	12.66
	SLE Rare +	-0.02	0.87	-0.21	71.8	-126.8	-0.07	0.93	14.75
	SLE Frequenti -	-0.02	0.85	-0.18	58.7	-118.1	-0.05	0.88	10.22
	SLE Frequenti +	-0.01	0.86	-0.16	60.8	-115.1	-0.04	0.89	11.16
	SLE Quasi Permanenti -	-0.01	0.85	-0.16	58.7	-115.1	-0.04	0.88	10.22
	SLE Quasi Permanenti +	-0.01	0.85	-0.16	58.7	-115.1	-0.04	0.88	10.22
	SLD -	-0.08	0.09	-1.79	-116.7	-353.1	-1.79	1.02	-30.80
	SLD +	0.05	1.61	1.44	237.3	118.6	-0.04	2.47	43.64
37 - 38 - 102	SLU Statiche -	-0.41	0.63	0.94	132.9	230.1	-0.99	1.19	-30.78
	SLU Statiche +	-0.38	0.66	0.97	136.9	237.3	-0.93	1.22	-30.44
	SLV -	-3.09	0.20	-3.94	-393.4	-622.3	-6.85	-2.41	-43.36
	SLV +	2.62	0.73	5.16	570.5	931.4	5.70	4.02	44.96
	SLE Rare -	-0.27	0.48	0.64	93.2	162.4	-0.66	0.85	-30.16
	SLE Rare +	-0.25	0.49	0.67	96.9	168.9	-0.62	0.88	-30.07
	SLE Frequenti -	-0.24	0.46	0.60	87.1	152.4	-0.59	0.81	-30.15
	SLE Frequenti +	-0.23	0.47	0.61	88.6	154.9	-0.58	0.82	-30.03
	SLE Quasi Permanenti -	-0.23	0.46	0.60	87.1	152.4	-0.58	0.81	-30.10
	SLE Quasi Permanenti +	-0.23	0.46	0.60	87.1	152.4	-0.58	0.81	-30.10
	SLD -	-1.45	0.35	-1.33	-116.8	-176.3	-3.25	-0.57	-44.09
	SLD +	0.98	0.58	2.55	293.8	485.4	2.11	2.17	40.53

Sollecitazioni negli elementi a 4 nodi

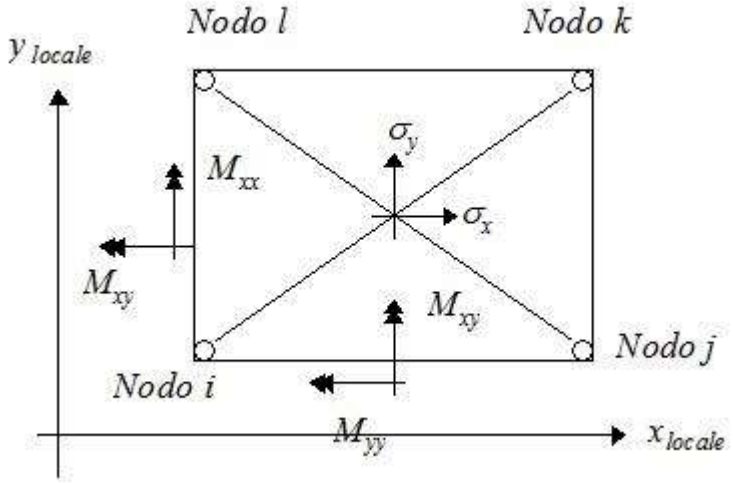
Convenzioni adottate

Nel seguito sono riportate le sollecitazioni indotte negli elementi a 4 nodi sia come sollecitazioni in corrispondenza dei nodi che come tensioni e momenti medi valutati nel centro dell'elemento. Per una dettagliata spiegazione sui presupposti teorici, il campo di applicazione e le modalità di impiego si rimanda all'apposito capitolo del manuale teorico in dotazione al programma.

Il sistema di riferimento locale dell'elemento risulta essere cosi diposto:

- L'asse **x** locale sulla congiungente i nodi **i** e **j** da **i** verso **j**.
- L'asse **y** locale sulla congiungente i nodi **i** e **l** da **i** verso **l**.

- L'asse **z** locale e ottenuto per prodotto vettoriale fra $\mathbf{x}_{locale}$ e $\mathbf{y}_{locale}$.
- Le tensioni medie nell'elemento (σ_x, σ_y, τ_{xy}) e i momenti medi ($\mathbf{M}_x$, $\mathbf{M}_y$, $\mathbf{M}_{xy}$) sono anch'essi da intendersi diretti lungo le direzioni sopra citate.



Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
3 8	SLU Statiche -	-0.0	-0.1	-0.1	0.1	-0.2	-36.97
	SLU Statiche +	-0.0	-0.1	-0.1	0.1	-0.2	-36.63
	SLV -	-0.0	-0.1	-0.1	-0.1	-0.2	-44.41
	SLV +	0.0	-0.0	-0.0	0.1	0.1	44.96
	SLE Rare -	-0.0	-0.1	-0.1	0.0	-0.1	-36.83
	SLE Rare +	-0.0	-0.1	-0.1	0.0	-0.1	-36.58
	SLE Frequenti -	-0.0	-0.1	-0.1	0.0	-0.1	-36.64
	SLE Frequenti +	-0.0	-0.1	-0.1	0.0	-0.1	-36.53
	SLE Quasi Permanenti -	-0.0	-0.1	-0.1	0.0	-0.1	-36.59
	SLE Quasi Permanenti +	-0.0	-0.1	-0.1	0.0	-0.1	-36.59
	SLD -	-0.0	-0.1	-0.1	0.0	-0.2	-41.35
	SLD +	-0.0	-0.0	-0.1	0.1	-0.1	-30.31
2 7	SLU Statiche -	-0.1	-0.1	-0.2	0.2	-0.3	-43.15
	SLU Statiche +	-0.0	-0.1	-0.2	0.2	-0.3	-42.31
	SLV -	-0.2	-0.1	-0.2	-0.4	-0.3	-44.62
	SLV +	0.1	0.0	-0.1	0.2	0.1	44.02
	SLE Rare -	-0.0	-0.1	-0.2	0.1	-0.2	-42.56
	SLE Rare +	-0.0	-0.1	-0.2	0.1	-0.2	-42.16
	SLE Frequenti -	-0.0	-0.1	-0.2	0.1	-0.2	-42.40
	SLE Frequenti +	-0.0	-0.1	-0.2	0.1	-0.2	-42.13
	SLE Quasi Permanenti -	-0.0	-0.1	-0.2	0.1	-0.2	-42.25
	SLE Quasi Permanenti +	-0.0	-0.1	-0.2	0.1	-0.2	-42.25
	SLD -	-0.1	-0.1	-0.2	-0.3	-0.2	-44.78
	SLD +	0.0	-0.0	-0.1	0.1	0.1	44.75
1 6	SLU Statiche -	0.4	0.4	0.2	0.6	0.2	42.04
	SLU Statiche +	0.4	0.4	0.2	0.6	0.3	43.62
	SLV -	0.1	0.2	-0.0	-0.1	0.0	-44.59
	SLV +	0.4	0.3	0.2	0.4	0.4	44.72
	SLE Rare -	0.3	0.3	0.1	0.4	0.2	41.76
	SLE Rare +	0.3	0.3	0.1	0.4	0.2	42.36
	SLE Frequenti -	0.3	0.3	0.1	0.4	0.2	42.24

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLE Frequenti +	0.3	0.3	0.1	0.4	0.2	42.77
	SLE Quasi Permanenti -	0.3	0.3	0.1	0.4	0.2	42.49
	SLE Quasi Permanenti +	0.3	0.3	0.1	0.4	0.2	42.49
	SLD -	0.2	0.2	0.0	0.1	0.1	-44.99
	SLD +	0.4	0.3	0.2	0.4	0.4	44.82
7 12	SLU Statiche -	0.0	-0.2	-0.1	0.0	-0.3	-18.64
	SLU Statiche +	0.0	-0.2	-0.1	0.1	-0.3	-18.54
	SLV -	-0.0	-0.3	-0.2	0.0	-0.4	-24.07
	SLV +	0.0	-0.0	0.0	0.1	-0.0	28.95
	SLE Rare -	0.0	-0.2	-0.1	0.0	-0.2	-18.37
	SLE Rare +	0.0	-0.2	-0.1	0.0	-0.2	-18.13
	SLE Frequenti -	0.0	-0.1	-0.1	0.0	-0.2	-17.75
	SLE Frequenti +	0.0	-0.1	-0.1	0.0	-0.2	-17.64
	SLE Quasi Permanenti -	0.0	-0.1	-0.1	0.0	-0.2	-17.64
	SLE Quasi Permanenti +	0.0	-0.1	-0.1	0.0	-0.2	-17.64
	SLD -	0.0	-0.2	-0.1	0.0	-0.3	-21.56
	SLD +	0.0	-0.1	-0.0	0.0	-0.1	-9.33
6 11	SLU Statiche -	0.2	0.1	-0.0	0.2	0.1	-18.47
	SLU Statiche +	0.2	0.1	-0.0	0.2	0.1	-17.71
	SLV -	-0.0	0.0	-0.1	-0.1	-0.1	-43.90
	SLV +	0.3	0.1	0.0	0.3	0.1	43.92
	SLE Rare -	0.1	0.0	-0.0	0.1	0.0	-16.75
	SLE Rare +	0.1	0.0	-0.0	0.1	0.0	-15.93
	SLE Frequenti -	0.1	0.0	-0.0	0.1	0.0	-14.47
	SLE Frequenti +	0.1	0.0	-0.0	0.1	0.0	-14.07
	SLE Quasi Permanenti -	0.1	0.0	-0.0	0.1	0.0	-14.07
	SLE Quasi Permanenti +	0.1	0.0	-0.0	0.1	0.0	-14.07
	SLD -	0.1	0.0	-0.1	0.1	-0.0	-34.59
	SLD +	0.2	0.1	0.0	0.2	0.1	2.83
5 10	SLU Statiche -	0.6	0.7	0.2	0.4	0.8	-39.51
	SLU Statiche +	0.6	0.7	0.2	0.4	0.9	-38.09
	SLV -	0.2	0.3	0.0	0.0	0.3	-43.85
	SLV +	0.6	0.6	0.3	0.8	0.8	44.15
	SLE Rare -	0.4	0.5	0.2	0.3	0.6	-39.31
	SLE Rare +	0.4	0.5	0.2	0.3	0.6	-38.86
	SLE Frequenti -	0.4	0.5	0.2	0.3	0.6	-39.14
	SLE Frequenti +	0.4	0.5	0.2	0.3	0.6	-38.66
	SLE Quasi Permanenti -	0.4	0.5	0.2	0.3	0.6	-38.94
	SLE Quasi Permanenti +	0.4	0.5	0.2	0.3	0.6	-38.94
	SLD -	0.3	0.4	0.1	0.2	0.3	-43.56
	SLD +	0.5	0.5	0.2	0.6	0.7	44.91
11 13	SLU Statiche -	-0.0	-0.2	0.0	-0.0	-0.2	1.26
	SLU Statiche +	-0.0	-0.2	0.0	-0.0	-0.2	1.97
	SLV -	-0.1	-0.3	-0.1	-0.0	-0.4	-20.84
	SLV +	0.1	0.1	0.1	0.2	-0.1	44.85
	SLE Rare -	-0.0	-0.1	0.0	-0.0	-0.1	2.09
	SLE Rare +	-0.0	-0.1	0.0	-0.0	-0.1	3.36
	SLE Frequenti -	0.0	-0.1	0.0	0.0	-0.1	4.76
	SLE Frequenti +	0.0	-0.1	0.0	0.0	-0.1	5.23
	SLE Quasi Permanenti -	0.0	-0.1	0.0	0.0	-0.1	5.23
	SLE Quasi Permanenti +	0.0	-0.1	0.0	0.0	-0.1	5.23

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLD -	-0.0	-0.2	-0.0	-0.0	-0.2	-12.38
	SLD +	0.0	-0.0	0.1	0.1	-0.1	27.70
14 15	SLU Statiche -	-0.1	-0.1	0.1	-0.0	-0.2	31.34
	SLU Statiche +	-0.1	-0.1	0.1	-0.0	-0.2	32.41
	SLV -	-0.1	-0.3	-0.0	-0.1	-0.3	-38.31
	SLV +	0.0	0.2	0.1	-0.0	0.2	10.87
	SLE Rare -	-0.0	-0.1	0.0	-0.0	-0.1	32.04
	SLE Rare +	-0.0	-0.1	0.1	-0.0	-0.1	33.51
	SLE Frequenti -	-0.0	-0.1	0.1	-0.0	-0.1	34.74
	SLE Frequenti +	-0.0	-0.1	0.1	-0.0	-0.1	35.23
	SLE Quasi Permanenti -	-0.0	-0.1	0.1	-0.0	-0.1	35.23
	SLE Quasi Permanenti +	-0.0	-0.1	0.1	-0.0	-0.1	35.23
	SLD -	-0.1	-0.2	0.0	-0.1	-0.2	-44.89
	SLD +	-0.0	0.0	0.1	0.0	0.1	44.98
23 24	SLU Statiche -	-0.1	0.3	0.0	-0.1	0.3	-1.62
	SLU Statiche +	-0.1	0.3	0.0	-0.1	0.3	-1.43
	SLV -	-0.2	0.2	-0.1	-0.2	0.2	-23.95
	SLV +	0.0	0.2	0.1	0.0	0.3	20.34
	SLE Rare -	-0.1	0.2	0.0	-0.1	0.2	-1.38
	SLE Rare +	-0.1	0.2	0.0	-0.1	0.2	-1.21
	SLE Frequenti -	-0.1	0.2	0.0	-0.1	0.2	-1.21
	SLE Frequenti +	-0.1	0.2	0.0	-0.1	0.2	-1.14
	SLE Quasi Permanenti -	-0.1	0.2	0.0	-0.1	0.2	-1.17
	SLE Quasi Permanenti +	-0.1	0.2	0.0	-0.1	0.2	-1.17
	SLD -	-0.1	0.2	-0.0	-0.1	0.2	-11.34
	SLD +	-0.0	0.2	0.1	-0.0	0.2	9.52
19 17	SLU Statiche -	-0.1	-0.1	0.0	-0.1	-0.1	-44.63
	SLU Statiche +	-0.1	-0.1	0.0	-0.1	-0.1	43.44
	SLV -	-0.1	-0.3	-0.0	-0.1	-0.3	-14.51
	SLV +	-0.0	0.2	0.0	-0.0	0.2	16.47
	SLE Rare -	-0.1	-0.1	0.0	-0.1	-0.0	-44.56
	SLE Rare +	-0.1	-0.1	0.0	-0.1	-0.0	-39.85
	SLE Frequenti -	-0.1	-0.0	0.0	-0.1	-0.0	-35.94
	SLE Frequenti +	-0.1	-0.0	0.0	-0.1	-0.0	-34.50
	SLE Quasi Permanenti -	-0.1	-0.0	0.0	-0.1	-0.0	-34.50
	SLE Quasi Permanenti +	-0.1	-0.0	0.0	-0.1	-0.0	-34.50
	SLD -	-0.1	-0.2	0.0	-0.1	-0.2	-20.78
	SLD +	-0.0	0.1	0.0	-0.0	0.1	24.48
10 14	SLU Statiche -	0.1	0.1	0.1	0.0	0.3	-41.91
	SLU Statiche +	0.1	0.2	0.1	0.0	0.3	-40.75
	SLV -	-0.0	0.1	0.0	-0.1	-0.0	-27.14
	SLV +	0.2	0.1	0.2	0.3	0.1	38.75
	SLE Rare -	0.1	0.1	0.1	-0.0	0.2	-42.09
	SLE Rare +	0.1	0.1	0.1	0.0	0.2	-41.48
	SLE Frequenti -	0.1	0.1	0.1	-0.0	0.2	-42.45
	SLE Frequenti +	0.1	0.1	0.1	-0.0	0.2	-42.08
	SLE Quasi Permanenti -	0.1	0.1	0.1	-0.0	0.2	-42.32
	SLE Quasi Permanenti +	0.1	0.1	0.1	-0.0	0.2	-42.32
	SLD -	0.0	0.1	0.1	-0.0	-0.0	-36.99
	SLD +	0.1	0.1	0.1	0.2	0.2	42.81

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
24 20	SLU Statiche -	-0.0	-0.1	-0.0	-0.0	-0.1	-12.97
	SLU Statiche +	-0.0	-0.1	-0.0	-0.0	-0.1	-11.19
	SLV -	-0.0	-0.3	-0.1	-0.0	-0.3	7.96
	SLV +	-0.0	0.2	0.1	-0.0	0.2	26.66
	SLE Rare -	-0.0	-0.1	-0.0	-0.0	-0.1	-16.95
	SLE Rare +	-0.0	-0.1	-0.0	-0.0	-0.1	-13.33
	SLE Frequenti -	-0.0	-0.1	-0.0	-0.0	-0.1	-23.28
	SLE Frequenti +	-0.0	-0.1	-0.0	-0.0	-0.1	-21.71
	SLE Quasi Permanenti -	-0.0	-0.1	-0.0	-0.0	-0.1	-23.28
	SLE Quasi Permanenti +	-0.0	-0.1	-0.0	-0.0	-0.1	-23.28
	SLD -	-0.0	-0.2	-0.0	-0.0	-0.2	1.77
	SLD +	-0.0	0.0	0.0	-0.0	0.1	38.02
16 19	SLU Statiche -	-0.0	0.2	0.1	-0.1	0.3	-22.42
	SLU Statiche +	-0.0	0.3	0.1	-0.1	0.3	-22.07
	SLV -	-0.1	0.1	-0.0	-0.2	0.2	-38.50
	SLV +	0.1	0.2	0.2	0.1	0.3	2.11
	SLE Rare -	-0.0	0.2	0.1	-0.1	0.2	-22.38
	SLE Rare +	-0.0	0.2	0.1	-0.1	0.2	-22.23
	SLE Frequenti -	-0.0	0.2	0.1	-0.1	0.2	-22.77
	SLE Frequenti +	-0.0	0.2	0.1	-0.1	0.2	-22.65
	SLE Quasi Permanenti -	-0.0	0.2	0.1	-0.1	0.2	-22.77
	SLE Quasi Permanenti +	-0.0	0.2	0.1	-0.1	0.2	-22.77
	SLD -	-0.1	0.1	0.0	-0.1	0.2	-30.74
	SLD +	0.0	0.2	0.1	-0.0	0.2	-13.49
18 10	SLU Statiche -	0.9	0.6	-0.2	1.0	0.5	-27.75
	SLU Statiche +	0.9	0.7	-0.2	1.0	0.6	-26.56
	SLV -	0.4	0.3	-0.3	0.4	0.1	-44.75
	SLV +	0.8	0.6	0.1	0.9	0.6	16.89
	SLE Rare -	0.6	0.5	-0.1	0.7	0.4	-27.43
	SLE Rare +	0.7	0.5	-0.1	0.7	0.4	-27.11
	SLE Frequenti -	0.6	0.4	-0.1	0.7	0.4	-27.83
	SLE Frequenti +	0.6	0.4	-0.1	0.7	0.4	-27.43
	SLE Quasi Permanenti -	0.6	0.4	-0.1	0.7	0.4	-27.76
	SLE Quasi Permanenti +	0.6	0.4	-0.1	0.7	0.4	-27.76
	SLD -	0.5	0.4	-0.2	0.6	0.3	-34.96
	SLD +	0.7	0.5	-0.0	0.8	0.5	-16.77
25 28	SLU Statiche -	0.2	-0.0	-0.2	0.3	-0.1	-26.63
	SLU Statiche +	0.2	-0.0	-0.1	0.3	-0.1	-25.99
	SLV -	0.1	-0.1	-0.2	0.1	-0.2	-41.09
	SLV +	0.1	0.1	0.0	0.3	0.0	7.68
	SLE Rare -	0.1	-0.0	-0.1	0.2	-0.1	-26.89
	SLE Rare +	0.1	-0.0	-0.1	0.2	-0.1	-26.50
	SLE Frequenti -	0.1	-0.0	-0.1	0.2	-0.1	-27.19
	SLE Frequenti +	0.1	-0.0	-0.1	0.2	-0.1	-26.98
	SLE Quasi Permanenti -	0.1	-0.0	-0.1	0.2	-0.1	-27.12
	SLE Quasi Permanenti +	0.1	-0.0	-0.1	0.2	-0.1	-27.12
	SLD -	0.1	-0.1	-0.2	0.1	-0.1	-34.60
	SLD +	0.1	0.0	-0.0	0.2	-0.0	-15.03
25 21	SLU Statiche -	0.0	-0.1	0.0	0.0	-0.2	15.34
	SLU Statiche +	0.0	-0.1	0.0	0.0	-0.1	15.48
	SLV -	0.0	-0.3	-0.1	-0.0	-0.3	-38.89

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLV +	0.0	0.1	0.1	0.1	0.1	39.14
	SLE Rare -	0.0	-0.1	0.0	0.0	-0.1	14.46
	SLE Rare +	0.0	-0.1	0.0	0.0	-0.1	15.05
	SLE Frequenti -	0.0	-0.1	0.0	0.0	-0.1	13.16
	SLE Frequenti +	0.0	-0.1	0.0	0.0	-0.1	13.46
	SLE Quasi Permanenti -	0.0	-0.1	0.0	0.0	-0.1	13.16
	SLE Quasi Permanenti +	0.0	-0.1	0.0	0.0	-0.1	13.16
	SLD -	0.0	-0.2	-0.0	0.0	-0.2	-23.46
	SLD +	0.0	-0.0	0.1	0.0	-0.0	21.48
18 23	SLU Statiche -	0.8	0.6	0.0	0.8	0.6	3.40
	SLU Statiche +	0.8	0.6	0.0	0.8	0.6	4.00
	SLV -	0.2	0.3	-0.2	0.1	0.2	-44.36
	SLV +	0.8	0.5	0.2	0.8	0.5	35.43
	SLE Rare -	0.5	0.4	0.0	0.5	0.4	3.21
	SLE Rare +	0.6	0.4	0.0	0.6	0.4	3.77
	SLE Frequenti -	0.5	0.4	0.0	0.5	0.4	2.47
	SLE Frequenti +	0.5	0.4	0.0	0.5	0.4	2.77
	SLE Quasi Permanenti -	0.5	0.4	0.0	0.5	0.4	2.49
	SLE Quasi Permanenti +	0.5	0.4	0.0	0.5	0.4	2.49
	SLD -	0.4	0.4	-0.1	0.4	0.3	-39.77
	SLD +	0.6	0.4	0.1	0.6	0.4	40.22
31 30	SLU Statiche -	0.5	0.7	-0.1	0.5	0.7	28.26
	SLU Statiche +	0.6	0.7	-0.1	0.5	0.8	30.98
	SLV -	0.3	0.1	-0.3	0.2	0.0	-44.93
	SLV +	0.5	0.7	0.1	0.6	0.8	36.46
	SLE Rare -	0.4	0.5	-0.1	0.3	0.5	30.14
	SLE Rare +	0.4	0.5	-0.1	0.3	0.5	30.57
	SLE Frequenti -	0.4	0.4	-0.1	0.3	0.5	32.21
	SLE Frequenti +	0.4	0.4	-0.1	0.3	0.5	33.31
	SLE Quasi Permanenti -	0.4	0.4	-0.1	0.3	0.5	33.31
	SLE Quasi Permanenti +	0.4	0.4	-0.1	0.3	0.5	33.31
	SLD -	0.3	0.3	-0.2	0.2	0.2	-44.83
	SLD +	0.4	0.6	-0.0	0.4	0.6	44.94
25 32	SLU Statiche -	0.1	0.1	0.1	-0.0	0.2	-41.08
	SLU Statiche +	0.1	0.1	0.1	-0.0	0.2	-39.89
	SLV -	0.0	-0.1	-0.1	-0.1	-0.2	-38.45
	SLV +	0.1	0.2	0.2	0.2	0.3	44.30
	SLE Rare -	0.0	0.1	0.1	-0.0	0.1	-40.27
	SLE Rare +	0.1	0.1	0.1	-0.0	0.2	-39.66
	SLE Frequenti -	0.0	0.1	0.1	-0.0	0.1	-40.15
	SLE Frequenti +	0.0	0.1	0.1	-0.0	0.1	-39.80
	SLE Quasi Permanenti -	0.0	0.1	0.1	-0.0	0.1	-39.98
	SLE Quasi Permanenti +	0.0	0.1	0.1	-0.0	0.1	-39.98
	SLD -	0.0	0.0	0.0	-0.1	-0.1	-43.38
	SLD +	0.1	0.1	0.1	0.1	0.2	44.03
27 22	SLU Statiche -	-0.0	-0.1	0.1	0.0	-0.2	36.55
	SLU Statiche +	-0.0	-0.1	0.1	0.0	-0.2	36.74
	SLV -	-0.1	-0.2	-0.0	0.0	-0.3	-18.96
	SLV +	0.0	0.0	0.2	0.1	-0.0	39.91
	SLE Rare -	-0.0	-0.1	0.1	0.0	-0.1	36.45
	SLE Rare +	-0.0	-0.1	0.1	0.0	-0.1	36.60

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLE Frequenti -	-0.0	-0.1	0.1	0.0	-0.1	36.13
	SLE Frequenti +	-0.0	-0.1	0.1	0.0	-0.1	36.21
	SLE Quasi Permanenti -	-0.0	-0.1	0.1	0.0	-0.1	36.13
	SLE Quasi Permanenti +	-0.0	-0.1	0.1	0.0	-0.1	36.13
	SLD -	-0.1	-0.1	0.0	0.0	-0.2	30.78
	SLD +	-0.0	-0.0	0.1	0.0	-0.1	38.41
34 32	SLU Statiche -	0.6	0.6	-0.2	0.8	0.4	-39.90
	SLU Statiche +	0.7	0.6	-0.2	0.8	0.4	-37.99
	SLV -	0.2	0.3	-0.3	0.1	0.1	-44.31
	SLV +	0.6	0.5	0.0	0.8	0.6	44.09
	SLE Rare -	0.5	0.4	-0.1	0.6	0.3	-38.99
	SLE Rare +	0.5	0.4	-0.1	0.6	0.3	-38.77
	SLE Frequenti -	0.4	0.4	-0.1	0.5	0.3	-39.83
	SLE Frequenti +	0.4	0.4	-0.1	0.5	0.3	-39.20
	SLE Quasi Permanenti -	0.4	0.4	-0.1	0.5	0.3	-39.77
	SLE Quasi Permanenti +	0.4	0.4	-0.1	0.5	0.3	-39.77
	SLD -	0.3	0.3	-0.2	0.2	0.2	-44.92
	SLD +	0.5	0.4	-0.1	0.6	0.5	43.99
26 28	SLU Statiche -	0.6	0.6	-0.1	0.7	0.5	-35.36
	SLU Statiche +	0.7	0.6	-0.1	0.7	0.5	-30.92
	SLV -	0.1	0.3	-0.2	0.0	0.3	-34.93
	SLV +	0.8	0.5	0.1	0.8	0.6	38.17
	SLE Rare -	0.4	0.4	-0.1	0.5	0.4	-36.14
	SLE Rare +	0.5	0.4	-0.0	0.5	0.4	-34.68
	SLE Frequenti -	0.4	0.4	-0.0	0.4	0.4	-42.00
	SLE Frequenti +	0.4	0.4	-0.0	0.5	0.4	-39.99
	SLE Quasi Permanenti -	0.4	0.4	-0.0	0.4	0.4	-42.00
	SLE Quasi Permanenti +	0.4	0.4	-0.0	0.4	0.4	-42.00
	SLD -	0.3	0.4	-0.1	0.2	0.3	-36.23
	SLD +	0.6	0.4	0.0	0.6	0.5	40.74
27 33	SLU Statiche -	-0.1	-0.1	-0.1	-0.2	0.0	37.10
	SLU Statiche +	-0.1	-0.0	-0.1	-0.2	0.0	38.97
	SLV -	-0.2	-0.3	-0.2	-0.2	-0.4	-41.11
	SLV +	0.1	0.2	0.1	0.1	0.3	39.05
	SLE Rare -	-0.1	-0.0	-0.1	-0.1	0.0	37.31
	SLE Rare +	-0.1	-0.0	-0.1	-0.1	0.0	37.91
	SLE Frequenti -	-0.1	-0.0	-0.1	-0.1	0.0	36.14
	SLE Frequenti +	-0.1	-0.0	-0.1	-0.1	0.0	36.74
	SLE Quasi Permanenti -	-0.1	-0.0	-0.1	-0.1	0.0	36.21
	SLE Quasi Permanenti +	-0.1	-0.0	-0.1	-0.1	0.0	36.21
	SLD -	-0.1	-0.1	-0.1	-0.2	-0.2	-41.96
	SLD +	-0.0	0.1	-0.0	-0.0	0.1	44.89
32 36	SLU Statiche -	0.5	0.5	0.2	0.3	0.3	-44.29
	SLU Statiche +	0.5	0.5	0.2	0.8	0.8	44.70
	SLV -	0.2	0.3	0.0	-0.0	0.3	-44.71
	SLV +	0.5	0.5	0.3	0.5	0.6	44.52
	SLE Rare -	0.4	0.4	0.2	0.2	0.5	-44.84
	SLE Rare +	0.4	0.4	0.2	0.2	0.5	-44.72
	SLE Frequenti -	0.4	0.4	0.2	0.2	0.5	-44.70
	SLE Frequenti +	0.4	0.4	0.2	0.2	0.5	-44.35
	SLE Quasi Permanenti -	0.4	0.4	0.2	0.2	0.5	-44.40

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
	SLE Quasi Permanenti +	0.4	0.4	0.2	0.2	0.5	-44.40
	SLD -	0.3	0.3	0.1	0.1	0.3	-44.87
	SLD +	0.4	0.4	0.2	0.5	0.5	44.73
103 101	SLU Statiche -	-2.8	-2.2	-1.6	-4.0	-0.9	38.94
	SLU Statiche +	-2.6	-2.1	-1.5	-3.9	-0.8	39.92
	SLV -	-1.9	-1.6	-1.2	-3.0	-0.7	37.18
	SLV +	-1.7	-1.3	-0.9	-2.4	-0.5	42.91
	SLE Rare -	-2.1	-1.6	-1.1	-3.0	-0.7	38.79
	SLE Rare +	-1.9	-1.5	-1.1	-2.8	-0.6	39.61
	SLE Frequenti -	-1.9	-1.5	-1.1	-2.7	-0.6	39.60
	SLE Frequenti +	-1.8	-1.4	-1.0	-2.7	-0.6	39.95
	SLE Quasi Permanenti -	-1.8	-1.4	-1.0	-2.7	-0.6	39.87
	SLE Quasi Permanenti +	-1.8	-1.4	-1.0	-2.7	-0.6	39.87
	SLD -	-1.8	-1.5	-1.1	-2.8	-0.6	38.89
	SLD +	-1.8	-1.4	-1.0	-2.6	-0.5	41.33
108 119	SLU Statiche -	0.9	-1.3	-0.6	1.1	-1.5	-15.88
	SLU Statiche +	1.0	-1.1	-0.6	1.1	-1.3	-14.40
	SLV -	0.5	-0.9	-0.9	0.5	-1.3	-27.26
	SLV +	0.6	-0.7	0.0	1.0	-0.7	0.07
	SLE Rare -	0.6	-1.0	-0.5	0.7	-1.1	-16.12
	SLE Rare +	0.7	-0.9	-0.5	0.8	-1.0	-14.75
	SLE Frequenti -	0.5	-0.8	-0.4	0.7	-1.0	-16.46
	SLE Frequenti +	0.6	-0.8	-0.4	0.7	-0.9	-15.84
	SLE Quasi Permanenti -	0.5	-0.8	-0.4	0.7	-0.9	-16.28
	SLE Quasi Permanenti +	0.5	-0.8	-0.4	0.7	-0.9	-16.28
	SLD -	0.5	-0.9	-0.6	0.6	-1.1	-22.17
	SLD +	0.6	-0.7	-0.3	0.8	-0.8	-10.37
104 114	SLU Statiche -	0.8	-1.2	-0.3	0.8	-1.3	-10.43
	SLU Statiche +	0.8	-1.0	-0.3	0.9	-1.1	-8.89
	SLV -	0.4	-1.0	-0.6	0.4	-1.0	-26.50
	SLV +	0.5	-0.5	0.1	0.8	-0.7	5.75
	SLE Rare -	0.5	-0.9	-0.3	0.6	-1.0	-10.78
	SLE Rare +	0.6	-0.8	-0.2	0.6	-0.9	-9.37
	SLE Frequenti -	0.5	-0.8	-0.2	0.5	-0.8	-10.01
	SLE Frequenti +	0.5	-0.7	-0.2	0.5	-0.7	-9.45
	SLE Quasi Permanenti -	0.5	-0.7	-0.2	0.5	-0.8	-9.56
	SLE Quasi Permanenti +	0.5	-0.7	-0.2	0.5	-0.8	-9.56
	SLD -	0.4	-0.8	-0.4	0.5	-0.8	-18.61
	SLD +	0.5	-0.6	-0.1	0.6	-0.7	-3.60
101 111	SLU Statiche -	-0.2	-0.8	0.6	0.1	-1.1	32.27
	SLU Statiche +	-0.2	-0.6	0.6	0.3	-1.0	35.99
	SLV -	-0.2	-0.6	0.1	-0.0	-1.1	33.76
	SLV +	-0.1	-0.2	0.7	0.3	-0.3	39.01
	SLE Rare -	-0.2	-0.6	0.4	0.1	-0.8	31.97
	SLE Rare +	-0.2	-0.5	0.4	0.1	-0.7	34.60
	SLE Frequenti -	-0.1	-0.5	0.4	0.1	-0.7	34.87
	SLE Frequenti +	-0.1	-0.4	0.4	0.2	-0.7	36.19
	SLE Quasi Permanenti -	-0.1	-0.4	0.4	0.2	-0.7	35.84
	SLE Quasi Permanenti +	-0.1	-0.4	0.4	0.2	-0.7	35.84
	SLD -	-0.2	-0.5	0.3	0.1	-0.8	35.60
	SLD +	-0.1	-0.3	0.5	0.2	-0.5	37.18

Nodi Ni - Nk	Comb.	σ_x [kg/cm²]	σ_y [kg/cm²]	τ_{xy} [kg/cm²]	σ_1 [kg/cm²]	σ_2 [kg/cm²]	Angolo [°]
115 129	SLU Statiche -	-1.5	-5.4	-2.1	-0.6	-6.3	-23.88
	SLU Statiche +	-1.4	-5.2	-2.0	-0.5	-6.1	-23.07
	SLV -	-1.2	-4.2	-1.7	-0.5	-5.0	-28.41
	SLV +	-0.9	-3.0	-1.1	-0.3	-3.5	-19.59
	SLE Rare -	-1.1	-4.0	-1.5	-0.4	-4.6	-23.64
	SLE Rare +	-1.1	-3.8	-1.5	-0.4	-4.5	-23.13
	SLE Frequenti -	-1.0	-3.7	-1.4	-0.4	-4.3	-24.11
	SLE Frequenti +	-1.0	-3.6	-1.4	-0.4	-4.2	-23.81
	SLE Quasi Permanenti -	-1.0	-3.6	-1.4	-0.4	-4.2	-24.03
	SLE Quasi Permanenti +	-1.0	-3.6	-1.4	-0.4	-4.2	-24.03
	SLD -	-1.1	-3.9	-1.6	-0.5	-4.6	-25.85
	SLD +	-1.0	-3.4	-1.3	-0.3	-4.0	-22.18
113 127	SLU Statiche -	-0.5	-1.6	-1.7	0.8	-2.8	-38.04
	SLU Statiche +	-0.5	-1.4	-1.7	0.8	-2.7	-35.87
	SLV -	-0.5	-1.2	-1.6	0.3	-2.5	-40.06
	SLV +	-0.4	-0.8	-0.8	0.8	-1.4	-37.15
	SLE Rare -	-0.4	-1.2	-1.2	0.5	-2.1	-37.42
	SLE Rare +	-0.4	-1.1	-1.2	0.5	-2.0	-36.08
	SLE Frequenti -	-0.4	-1.0	-1.2	0.5	-1.9	-38.56
	SLE Frequenti +	-0.4	-1.0	-1.2	0.5	-1.9	-37.79
	SLE Quasi Permanenti -	-0.4	-1.0	-1.2	0.5	-1.9	-38.36
	SLE Quasi Permanenti +	-0.4	-1.0	-1.2	0.5	-1.9	-38.36
	SLD -	-0.5	-1.1	-1.4	0.4	-2.2	-39.00
	SLD +	-0.4	-0.9	-1.0	0.6	-1.7	-37.84
112 125	SLU Statiche -	0.5	-0.8	-1.4	1.4	-1.6	-33.33
	SLU Statiche +	0.6	-0.6	-1.3	1.4	-1.5	-30.60
	SLV -	0.2	-0.6	-1.4	0.5	-1.5	-37.68
	SLV +	0.4	-0.3	-0.5	1.4	-0.7	-25.21
	SLE Rare -	0.3	-0.6	-1.0	1.0	-1.2	-32.70
	SLE Rare +	0.4	-0.5	-1.0	1.0	-1.1	-30.92
	SLE Frequenti -	0.3	-0.5	-0.9	0.9	-1.1	-34.08
	SLE Frequenti +	0.3	-0.4	-0.9	0.9	-1.1	-33.06
	SLE Quasi Permanenti -	0.3	-0.4	-0.9	0.9	-1.1	-33.81
	SLE Quasi Permanenti +	0.3	-0.4	-0.9	0.9	-1.1	-33.81
	SLD -	0.3	-0.5	-1.1	0.7	-1.3	-35.89
	SLD +	0.3	-0.4	-0.7	1.1	-0.9	-31.26
109 124	SLU Statiche -	0.8	-1.1	-0.9	1.2	-1.4	-23.18
	SLU Statiche +	0.9	-0.9	-0.9	1.2	-1.3	-20.87
	SLV -	0.4	-0.7	-1.1	0.5	-1.3	-31.51
	SLV +	0.6	-0.5	-0.2	1.2	-0.6	-7.62
	SLE Rare -	0.6	-0.8	-0.7	0.8	-1.1	-22.87
	SLE Rare +	0.6	-0.7	-0.6	0.9	-1.0	-21.21
	SLE Frequenti -	0.5	-0.7	-0.6	0.8	-0.9	-23.94
	SLE Frequenti +	0.5	-0.6	-0.6	0.8	-0.9	-23.03
	SLE Quasi Permanenti -	0.5	-0.6	-0.6	0.8	-0.9	-23.70
	SLE Quasi Permanenti +	0.5	-0.6	-0.6	0.8	-0.9	-23.70
	SLD -	0.5	-0.7	-0.8	0.6	-1.1	-27.94
	SLD +	0.5	-0.6	-0.4	1.0	-0.8	-18.52

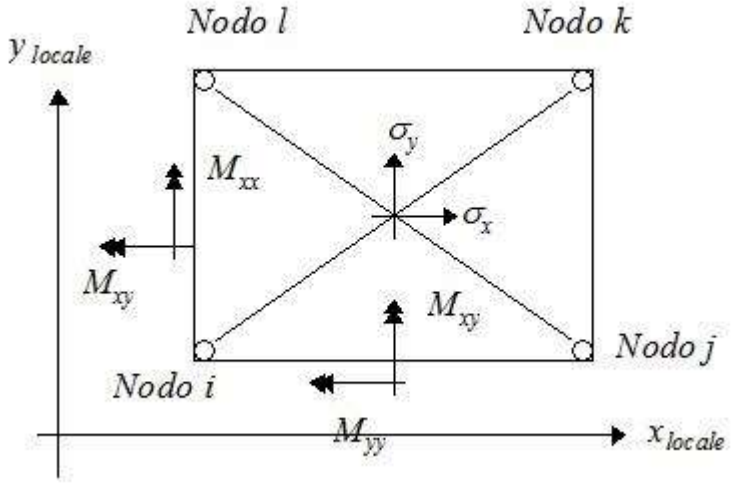
Sollecitazioni negli elementi a 4 nodi

Convenzioni adottate

Nel seguito sono riportate le sollecitazioni indotte negli elementi a 4 nodi sia come sollecitazioni in corrispondenza dei nodi che come tensioni e momenti medi valutati nel centro dell'elemento. Per una dettagliata spiegazione sui presupposti teorici, il campo di applicazione e le modalità di impiego si rimanda all'apposito capitolo del manuale teorico in dotazione al programma.

Il sistema di riferimento locale dell'elemento risulta essere cosi diposto:

- L'asse **x** locale sulla congiungente i nodi **i** e **j** da **i** verso **j**.
- L'asse **y** locale sulla congiungente i nodi **i** e **l** da **i** verso **l**.
- L'asse **z** locale e ottenuto per prodotto vettoriale fra $\mathbf{x}_{locale}$ e $\mathbf{y}_{locale}$.
- Le tensioni medie nell'elemento (σ_x, σ_y, τ_{xy}) e i momenti medi ($\mathbf{M}_x$, $\mathbf{M}_y$, $\mathbf{M}_{xy}$) sono anch'essi da intendersi diretti lungo le direzioni sopra citate.



Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
3 8	SLU Statiche -	1759.56	-217.09	-140.19	-2223.1	-619.9	1769.46	-226.98	-4.04
	SLU Statiche +	1954.51	-202.78	-124.87	-2018.0	-598.6	1961.72	-209.98	-3.30
	SLV -	1391.98	-202.40	-119.72	-1622.6	-576.5	1399.35	-210.95	-4.25
	SLV +	1444.39	-83.83	-54.38	-1598.1	-304.1	1447.16	-85.94	-2.05
	SLE Rare -	1290.04	-153.52	-95.71	-1609.9	-454.6	1296.35	-159.83	-3.78
	SLE Rare +	1415.28	-149.41	-91.25	-1475.0	-435.3	1420.58	-154.71	-3.33
	SLE Frequenti -	1249.83	-148.26	-94.24	-1475.5	-421.0	1256.16	-154.58	-3.84
	SLE Frequenti +	1292.99	-145.32	-91.04	-1430.0	-414.6	1298.73	-151.06	-3.61
	SLE Quasi Permanenti -	1251.26	-146.06	-92.37	-1430.6	-414.6	1257.34	-152.14	-3.77
	SLE Quasi Permanenti +	1251.26	-146.06	-92.37	-1430.6	-414.6	1257.34	-152.14	-3.77
	SLD -	1407.05	-168.36	-100.95	-1615.6	-498.2	1412.93	-174.67	-3.64
	SLD +	1429.33	-117.87	-73.15	-1605.2	-382.4	1433.22	-121.42	-2.71
2 7	SLU Statiche -	139.80	-207.32	22.05	1763.6	-845.0	141.19	-208.72	3.62
	SLU Statiche +	253.16	-188.68	32.19	1881.2	-802.6	255.50	-191.01	4.14
	SLV -	-77.93	-214.65	11.97	-705.4	-965.3	-71.18	-216.57	1.54
	SLV +	467.50	-55.85	35.68	3337.9	-196.3	468.10	-57.67	12.86
	SLE Rare -	129.29	-146.13	18.45	1312.7	-608.2	130.62	-147.46	3.83
	SLE Rare +	177.77	-142.39	23.58	1370.1	-592.3	179.50	-144.12	4.19
	SLE Frequenti -	122.50	-141.60	16.50	1239.8	-569.8	123.52	-142.63	3.56
	SLE Frequenti +	146.77	-137.79	18.70	1264.5	-559.6	147.99	-139.01	3.74
	SLE Quasi Permanenti -	130.77	-138.63	16.99	1239.8	-559.6	131.83	-139.70	3.59
	SLE Quasi Permanenti +	130.77	-138.63	16.99	1239.8	-559.6	131.83	-139.70	3.59
	SLD -	78.73	-169.09	18.79	456.6	-744.5	81.55	-170.81	2.80

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLD +	310.84	-101.41	28.86	2176.0	-417.1	311.93	-103.16	6.13
1 6	SLU Statiche -	-98.52	-75.38	22.89	-369.9	-906.9	-116.32	-57.81	-33.40
	SLU Statiche +	-94.44	-69.38	27.00	-267.8	-829.6	-108.12	-55.70	-29.54
	SLV -	-145.72	-71.32	-5.78	-269.2	-917.5	-149.73	-70.34	-43.56
	SLV +	13.66	-31.77	37.88	-103.9	-241.5	15.37	-3.12	43.73
	SLE Rare -	-72.67	-55.43	17.79	-233.6	-633.8	-84.08	-44.02	-33.35
	SLE Rare +	-70.08	-54.47	18.12	-214.1	-621.8	-81.86	-42.55	-32.25
	SLE Frequenti -	-67.16	-53.03	15.62	-227.1	-595.4	-77.91	-42.25	-33.56
	SLE Frequenti +	-66.13	-51.82	16.51	-206.1	-580.0	-76.21	-41.70	-32.27
	SLE Quasi Permanenti -	-66.17	-51.91	15.62	-212.6	-580.1	-76.21	-41.87	-32.73
	SLE Quasi Permanenti +	-66.17	-51.91	15.62	-212.6	-580.1	-76.21	-41.87	-32.73
	SLD -	-99.91	-59.95	6.79	-221.7	-722.8	-105.53	-65.82	-40.79
	SLD +	-32.15	-43.15	25.30	-151.4	-436.2	-20.84	-23.21	40.75
7 12	SLU Statiche -	1624.63	-319.76	-273.30	-1843.0	593.7	1658.95	-354.47	-7.53
	SLU Statiche +	1797.09	-312.10	-258.90	-1652.9	613.8	1831.80	-346.10	-7.24
	SLV -	1298.04	-265.28	-210.64	-1351.0	223.1	1325.42	-290.29	-7.77
	SLV +	1310.74	-189.30	-178.72	-1326.6	622.8	1332.28	-213.00	-6.50
	SLE Rare -	1186.16	-234.59	-196.41	-1333.0	431.0	1210.41	-259.31	-7.39
	SLE Rare +	1300.94	-226.69	-186.36	-1209.7	434.5	1325.66	-250.82	-7.17
	SLE Frequenti -	1153.30	-219.39	-184.63	-1217.8	418.2	1176.92	-243.15	-7.42
	SLE Frequenti +	1191.70	-216.76	-181.28	-1175.8	422.9	1215.46	-240.32	-7.33
	SLE Quasi Permanenti -	1154.14	-216.76	-181.28	-1177.5	418.2	1177.71	-240.32	-7.41
	SLE Quasi Permanenti +	1154.14	-216.76	-181.28	-1177.5	418.2	1177.71	-240.32	-7.41
	SLD -	1301.70	-243.48	-201.44	-1344.0	337.9	1327.32	-268.12	-7.40
	SLD +	1307.09	-211.09	-187.92	-1333.6	508.0	1330.22	-235.17	-6.86
6 11	SLU Statiche -	-7.34	-319.26	-190.01	1805.4	485.3	82.40	-409.00	-25.30
	SLU Statiche +	118.05	-299.36	-186.39	1942.8	524.9	191.59	-372.89	-21.16
	SLV -	-162.97	-277.46	-161.10	263.6	88.4	-82.81	-377.57	-33.58
	SLV +	363.89	-145.03	-107.62	2409.0	603.4	402.05	-171.62	-12.71
	SLE Rare -	30.01	-223.57	-136.31	1336.6	366.3	87.67	-281.23	-23.36
	SLE Rare +	79.44	-221.35	-133.59	1380.2	372.5	132.00	-274.11	-21.08
	SLE Frequenti -	24.64	-215.01	-131.63	1284.6	346.9	82.73	-273.10	-23.83
	SLE Frequenti +	51.35	-210.96	-130.73	1312.7	354.8	106.01	-265.69	-22.55
	SLE Quasi Permanenti -	34.98	-210.96	-130.73	1287.3	347.2	91.49	-267.46	-23.38
	SLE Quasi Permanenti +	34.98	-210.96	-130.73	1287.3	347.2	91.49	-267.46	-23.38
	SLD -	-11.66	-239.47	-145.73	880.0	236.3	47.44	-306.13	-25.25
	SLD +	212.57	-183.02	-122.99	1792.6	455.5	256.31	-220.90	-16.56
5 10	SLU Statiche -	-110.03	-140.92	-37.69	-938.5	-750.0	-84.51	-166.10	-36.03
	SLU Statiche +	-105.80	-132.32	-36.27	-810.0	-743.9	-80.44	-157.68	-33.75
	SLV -	-153.39	-124.39	-59.01	-748.6	-857.2	-194.00	-157.65	-44.83
	SLV +	7.96	-61.82	5.19	-377.9	-138.2	22.36	-52.19	44.37
	SLE Rare -	-79.32	-99.02	-27.67	-624.8	-510.6	-59.79	-118.54	-35.21
	SLE Rare +	-76.50	-97.73	-27.31	-607.4	-500.0	-57.76	-116.59	-34.27
	SLE Frequenti -	-74.18	-94.57	-27.53	-604.9	-487.0	-54.81	-113.64	-35.38
	SLE Frequenti +	-73.08	-92.78	-27.24	-578.7	-483.5	-53.95	-111.95	-34.70
	SLE Quasi Permanenti -	-73.20	-92.78	-27.35	-583.8	-483.5	-53.95	-112.04	-35.15
	SLE Quasi Permanenti +	-73.20	-92.78	-27.35	-583.8	-483.5	-53.95	-112.04	-35.15
	SLD -	-107.04	-106.43	-40.55	-642.2	-650.1	-142.95	-145.06	-44.68
	SLD +	-38.39	-79.78	-13.27	-484.2	-345.3	-21.90	-68.91	44.37
11 13	SLU Statiche -	1695.70	133.80	-581.74	-2051.2	929.7	1863.62	-44.79	-17.41

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLU Statiche +	1850.17	169.11	-533.66	-1872.5	959.5	2028.76	1.80	-17.07
	SLV -	1316.21	88.74	-435.58	-1495.2	488.6	1436.50	-41.14	-17.54
	SLV +	1361.43	96.64	-401.36	-1474.8	882.1	1496.19	-28.78	-16.34
	SLE Rare -	1237.20	98.40	-419.09	-1485.0	676.8	1358.26	-29.80	-17.30
	SLE Rare +	1340.18	111.06	-387.69	-1365.8	699.6	1468.38	-9.39	-17.01
	SLE Frequenti -	1202.66	105.35	-387.08	-1366.5	655.0	1320.05	-14.38	-17.30
	SLE Frequenti +	1237.07	112.83	-376.41	-1326.8	662.6	1356.79	-4.38	-17.19
	SLE Quasi Permanenti -	1203.15	109.57	-376.61	-1327.1	655.0	1320.30	-7.58	-17.28
	SLE Quasi Permanenti +	1203.15	109.57	-376.61	-1327.1	655.0	1320.30	-7.58	-17.28
	SLD -	1329.22	91.01	-425.73	-1489.3	601.6	1453.64	-37.45	-17.20
	SLD +	1348.43	94.36	-411.22	-1480.7	769.2	1478.99	-32.21	-16.69
14 15	SLU Statiche -	1835.04	214.06	-532.20	-2197.1	649.9	1975.84	66.49	-16.02
	SLU Statiche +	1985.84	270.33	-493.62	-2020.2	677.8	2133.41	128.59	-15.50
	SLV -	1411.36	141.91	-389.86	-1621.4	244.7	1516.20	36.95	-15.51
	SLV +	1455.80	152.59	-375.17	-1554.2	721.1	1561.27	47.25	-15.23
	SLE Rare -	1338.16	158.34	-384.64	-1592.4	469.6	1439.65	51.69	-15.89
	SLE Rare +	1438.83	178.07	-357.85	-1473.7	490.4	1545.48	76.33	-15.50
	SLE Frequenti -	1299.37	166.72	-355.72	-1469.1	455.1	1397.59	66.78	-15.86
	SLE Frequenti +	1332.92	178.62	-346.79	-1429.5	462.1	1432.86	80.02	-15.69
	SLE Quasi Permanenti -	1299.37	173.21	-346.79	-1429.5	455.1	1397.59	74.98	-15.81
	SLE Quasi Permanenti +	1299.37	173.21	-346.79	-1429.5	455.1	1397.59	74.98	-15.81
	SLD -	1424.16	144.98	-385.63	-1602.1	381.4	1529.18	39.92	-15.43
	SLD +	1443.00	149.53	-379.40	-1573.5	584.4	1548.29	44.29	-15.31
23 24	SLU Statiche -	-171.87	99.26	-34.95	2994.3	-368.4	-173.44	103.92	4.31
	SLU Statiche +	-74.83	103.38	-20.86	3167.4	-346.6	-81.59	106.01	10.94
	SLV -	-202.95	25.21	-78.89	1252.9	-809.6	-209.82	28.19	-34.91
	SLV +	130.01	119.62	26.29	3012.5	311.8	139.88	170.55	40.66
	SLE Rare -	-90.89	72.71	-24.74	2186.2	-257.6	-93.14	75.98	6.47
	SLE Rare +	-56.23	74.19	-18.84	2210.8	-253.9	-60.82	77.30	10.50
	SLE Frequenti -	-90.56	73.89	-20.40	2099.9	-248.2	-92.37	76.40	5.94
	SLE Frequenti +	-70.04	74.77	-17.39	2136.0	-243.8	-72.87	76.73	7.91
	SLE Quasi Permanenti -	-81.22	74.39	-18.43	2099.9	-243.8	-83.38	76.54	6.66
	SLE Quasi Permanenti +	-81.22	74.39	-18.43	2099.9	-243.8	-83.38	76.54	6.66
	SLD -	-107.03	52.40	-48.71	1759.9	-487.9	-113.29	54.26	1.81
	SLD +	34.09	92.43	-3.89	2505.6	-9.9	27.69	110.61	24.80
19 17	SLU Statiche -	1812.91	145.47	-479.86	-2186.3	426.4	1926.71	26.33	-14.43
	SLU Statiche +	1959.11	206.81	-445.75	-2011.1	456.3	2078.24	91.98	-13.94
	SLV -	1395.68	88.31	-352.92	-1613.2	93.4	1480.59	5.42	-14.26
	SLV +	1431.53	105.83	-336.76	-1545.8	559.0	1516.33	19.00	-13.40
	SLE Rare -	1321.67	107.72	-347.36	-1584.1	307.3	1403.81	21.41	-14.31
	SLE Rare +	1419.48	131.26	-323.32	-1466.5	328.6	1505.78	48.97	-13.95
	SLE Frequenti -	1283.18	120.47	-320.80	-1461.9	297.8	1362.46	39.81	-14.27
	SLE Frequenti +	1315.79	133.52	-312.79	-1422.7	304.9	1396.44	53.86	-14.11
	SLE Quasi Permanenti -	1283.18	128.27	-312.79	-1422.7	297.8	1362.46	48.99	-14.22
	SLE Quasi Permanenti +	1283.18	128.27	-312.79	-1422.7	297.8	1362.46	48.99	-14.22
	SLD -	1406.00	93.34	-348.28	-1593.8	226.9	1490.87	9.33	-14.01
	SLD +	1421.20	100.81	-341.40	-1565.2	425.4	1506.04	15.11	-13.64
10 14	SLU Statiche -	-164.87	85.77	-219.73	2730.7	200.0	-278.31	199.79	29.15
	SLU Statiche +	-53.49	89.60	-203.39	2898.7	214.4	-213.04	249.14	35.98
	SLV -	-248.72	10.66	-188.23	794.4	-335.6	-320.79	-86.17	-44.84
	SLV +	206.72	124.75	-127.82	3121.5	614.5	340.81	289.04	44.93

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLE Rare -	-83.25	65.08	-158.58	2000.0	145.4	-176.04	157.28	31.78
	SLE Rare +	-42.17	67.63	-148.52	2025.5	152.5	-155.08	180.54	35.45
	SLE Frequenti -	-84.90	64.49	-147.97	1924.0	143.8	-172.71	152.43	31.31
	SLE Frequenti +	-61.28	65.35	-144.36	1957.6	146.8	-158.91	162.98	33.42
	SLE Quasi Permanenti -	-74.71	64.56	-144.62	1924.0	145.2	-165.58	155.44	32.14
	SLE Quasi Permanenti +	-74.71	64.56	-144.62	1924.0	145.2	-165.58	155.44	32.14
	SLD -	-117.89	43.45	-170.83	1463.0	-62.8	-214.34	134.16	30.77
	SLD +	75.89	91.96	-145.22	2452.9	341.7	-73.62	248.04	43.98
24 20	SLU Statiche -	1694.27	-5.48	-435.77	-2096.4	238.0	1787.43	-103.30	-13.06
	SLU Statiche +	1838.05	50.46	-404.49	-1922.3	280.7	1935.87	-43.51	-12.65
	SLV -	1302.96	-22.42	-319.19	-1553.0	-6.7	1371.53	-93.51	-12.73
	SLV +	1351.59	2.08	-307.35	-1479.3	410.8	1422.51	-66.32	-12.37
	SLE Rare -	1235.10	-3.38	-315.68	-1518.1	176.6	1302.55	-74.30	-12.96
	SLE Rare +	1330.95	21.25	-293.65	-1402.0	200.2	1401.86	-46.05	-12.66
	SLE Frequenti -	1199.62	14.46	-291.25	-1400.2	169.2	1264.58	-51.64	-12.91
	SLE Frequenti +	1231.58	26.47	-283.90	-1361.5	178.5	1297.68	-38.75	-12.79
	SLE Quasi Permanenti -	1199.68	22.67	-283.90	-1361.5	170.7	1264.58	-42.23	-12.88
	SLE Quasi Permanenti +	1199.68	22.67	-283.90	-1361.5	170.7	1264.58	-42.23	-12.88
	SLD -	1316.92	-15.37	-315.79	-1531.8	113.1	1386.16	-85.68	-12.63
	SLD +	1337.64	-4.97	-310.76	-1500.5	291.0	1407.88	-74.15	-12.48
16 19	SLU Statiche -	-179.26	146.15	-103.79	3095.2	-351.1	-202.44	173.57	14.38
	SLU Statiche +	-77.59	150.39	-90.44	3272.1	-330.3	-118.31	186.97	21.42
	SLV -	-222.70	65.36	-110.62	1275.7	-775.6	-239.97	72.50	8.52
	SLV +	146.76	147.11	-40.19	3137.4	289.0	77.70	251.64	44.96
	SLE Rare -	-95.08	107.56	-75.03	2260.0	-250.2	-116.29	128.59	17.01
	SLE Rare +	-58.31	107.75	-68.09	2285.4	-242.6	-87.21	136.52	21.06
	SLE Frequenti -	-95.18	106.33	-68.47	2172.7	-238.3	-114.56	126.58	16.47
	SLE Frequenti +	-73.65	107.20	-65.56	2209.4	-234.1	-96.73	129.45	18.63
	SLE Quasi Permanenti -	-85.55	106.41	-66.15	2172.7	-234.4	-106.14	127.00	17.29
	SLE Quasi Permanenti +	-85.55	106.41	-66.15	2172.7	-234.4	-106.14	127.00	17.29
	SLD -	-116.37	88.91	-90.39	1811.7	-470.1	-141.23	106.65	15.76
	SLD +	40.43	123.56	-60.42	2601.5	-16.6	-2.43	179.22	32.33
18 10	SLU Statiche -	-84.88	-158.02	73.70	32.7	-973.9	-37.66	-206.46	31.62
	SLU Statiche +	-82.03	-153.23	77.14	39.2	-854.1	-35.78	-199.48	32.39
	SLV -	-93.29	-172.18	-11.83	-469.0	-766.9	-36.90	-252.60	-25.26
	SLV +	-16.69	-37.57	118.01	505.7	-393.6	-0.90	-37.58	35.77
	SLE Rare -	-58.13	-112.09	54.58	17.8	-641.8	-23.98	-146.23	31.90
	SLE Rare +	-57.09	-108.89	54.85	26.3	-623.4	-22.65	-143.46	32.35
	SLE Frequenti -	-55.35	-106.67	53.18	7.0	-619.2	-21.72	-140.42	32.10
	SLE Frequenti +	-54.72	-105.43	53.87	9.9	-594.8	-21.18	-139.01	32.34
	SLE Quasi Permanenti -	-54.72	-105.62	53.21	7.0	-599.6	-21.18	-139.16	32.22
	SLE Quasi Permanenti +	-54.72	-105.62	53.21	7.0	-599.6	-21.18	-139.16	32.22
	SLD -	-71.27	-133.51	25.42	-188.8	-659.7	-29.35	-187.02	27.00
	SLD +	-38.71	-76.24	80.75	225.5	-500.9	-12.73	-90.91	34.38
25 28	SLU Statiche -	-40.96	69.06	24.10	-9.1	2695.6	-43.74	74.97	-12.95
	SLU Statiche +	-36.68	165.38	25.68	-2.4	2860.9	-42.59	168.16	-6.58
	SLV -	-68.58	-155.12	-30.49	-530.2	945.7	-70.98	-176.35	-44.99
	SLV +	13.66	221.53	65.85	525.6	2895.7	12.91	222.28	42.97
	SLE Rare -	-29.36	52.34	17.10	-5.0	1969.4	-31.85	56.41	-12.49
	SLE Rare +	-26.48	86.03	18.37	-2.5	1990.7	-30.55	88.70	-8.29
	SLE Frequenti -	-31.30	66.38	15.99	-6.2	1892.3	-33.60	69.09	-9.38

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLE Frequenti +	-30.34	86.75	16.42	-4.8	1926.0	-33.05	88.89	-7.61
	SLE Quasi Permanenti -	-31.30	77.44	15.99	-5.6	1892.3	-33.60	79.74	-8.20
	SLE Quasi Permanenti +	-31.30	77.44	15.99	-5.6	1892.3	-33.60	79.74	-8.20
	SLD -	-44.93	-46.81	-2.85	-227.3	1506.7	-74.27	-76.42	-44.88
	SLD +	-9.99	113.21	38.21	222.7	2334.8	-10.18	114.56	44.12
25 21	SLU Statiche -	1619.36	-200.78	-343.60	-1756.5	224.4	1674.10	-259.04	-9.79
	SLU Statiche +	1767.43	-161.21	-317.37	-1603.4	271.8	1825.69	-215.94	-9.62
	SLV -	1250.36	-188.98	-258.66	-1292.3	-15.7	1295.23	-231.58	-10.19
	SLV +	1304.66	-107.12	-235.96	-1249.8	405.7	1343.27	-147.89	-8.96
	SLE Rare -	1180.52	-147.22	-248.53	-1270.6	167.6	1220.14	-189.28	-9.74
	SLE Rare +	1279.24	-125.11	-230.46	-1168.6	194.3	1321.30	-164.59	-9.61
	SLE Frequenti -	1146.02	-125.94	-229.25	-1170.3	158.0	1184.31	-165.05	-9.73
	SLE Frequenti +	1178.93	-117.29	-223.23	-1136.2	168.4	1218.03	-155.61	-9.68
	SLE Quasi Permanenti -	1146.07	-118.57	-223.23	-1136.7	159.5	1184.31	-156.82	-9.72
	SLE Quasi Permanenti +	1146.07	-118.57	-223.23	-1136.7	159.5	1184.31	-156.82	-9.72
	SLD -	1265.98	-165.40	-252.15	-1280.1	105.5	1309.01	-207.48	-9.83
	SLD +	1289.05	-130.70	-242.48	-1262.1	284.5	1329.41	-172.00	-9.31
18 23	SLU Statiche -	29.46	172.48	57.02	-159.1	712.9	9.51	192.43	-19.47
	SLU Statiche +	31.09	177.54	59.15	-150.9	820.1	10.71	198.45	-19.00
	SLV -	-15.89	68.38	-41.79	-489.5	274.7	-76.52	71.89	-34.29
	SLV +	52.54	168.55	122.59	268.5	680.1	46.52	217.35	19.38
	SLE Rare -	19.95	123.19	41.51	-113.0	519.0	5.37	137.87	-19.47
	SLE Rare +	21.13	126.54	41.79	-110.4	535.7	6.57	141.10	-19.21
	SLE Frequenti -	17.68	118.87	40.41	-114.8	488.7	3.53	133.05	-19.38
	SLE Frequenti +	18.15	120.19	40.84	-113.1	510.5	4.01	134.32	-19.23
	SLE Quasi Permanenti -	17.68	119.01	40.42	-113.9	492.5	3.53	133.16	-19.29
	SLE Quasi Permanenti +	17.68	119.01	40.42	-113.9	492.5	3.53	133.16	-19.29
	SLD -	3.82	97.23	5.37	-271.8	391.4	-27.29	105.56	-28.44
	SLD +	32.82	139.71	75.44	50.8	563.4	27.42	166.79	-3.01
31 30	SLU Statiche -	-167.21	-25.53	-8.69	-731.5	73.2	-167.72	-24.99	3.39
	SLU Statiche +	-162.45	-23.87	-8.44	-628.1	83.3	-162.97	-23.36	3.51
	SLV -	-162.17	-63.95	-80.26	-608.2	-351.3	-175.25	-48.68	-38.46
	SLV +	-60.04	33.78	69.85	-237.7	427.5	-63.29	73.09	27.36
	SLE Rare -	-118.71	-17.56	-6.19	-476.0	45.9	-119.08	-17.18	3.25
	SLE Rare +	-115.54	-16.57	-5.65	-461.9	50.6	-115.91	-16.25	3.53
	SLE Frequenti -	-112.57	-15.01	-4.82	-454.3	35.4	-112.81	-14.77	2.72
	SLE Frequenti +	-111.32	-14.56	-4.60	-433.3	38.0	-111.55	-14.34	2.82
	SLE Quasi Permanenti -	-111.39	-14.56	-4.60	-436.7	35.4	-111.61	-14.34	2.72
	SLE Quasi Permanenti +	-111.39	-14.56	-4.60	-436.7	35.4	-111.61	-14.34	2.72
	SLD -	-132.74	-35.89	-37.20	-501.7	-127.4	-134.94	-33.39	-17.54
	SLD +	-89.46	5.71	26.79	-344.1	203.6	-89.66	17.27	17.62
25 32	SLU Statiche -	-168.80	-159.00	32.51	-161.6	-2471.5	-196.78	-131.02	-40.71
	SLU Statiche +	-158.66	-66.23	34.58	-137.1	-2320.2	-172.24	-54.95	-18.06
	SLV -	-148.99	-294.24	-6.65	-551.5	-2730.3	-148.87	-294.62	-41.60
	SLV +	-77.11	228.48	53.93	355.7	-610.0	-48.02	236.95	36.56
	SLE Rare -	-119.41	-82.57	22.96	-108.6	-1727.9	-130.08	-71.00	-26.73
	SLE Rare +	-116.60	-50.46	24.90	-102.3	-1700.9	-127.47	-42.40	-17.92
	SLE Frequenti -	-111.71	-84.62	21.05	-109.3	-1666.1	-123.34	-72.99	-28.72
	SLE Frequenti +	-109.30	-64.99	21.70	-104.2	-1635.7	-118.96	-56.27	-21.90
	SLE Quasi Permanenti -	-109.30	-75.70	21.05	-106.3	-1636.4	-119.43	-65.56	-25.70
	SLE Quasi Permanenti +	-109.30	-75.70	21.05	-106.3	-1636.4	-119.43	-65.56	-25.70

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLD -	-128.36	-144.14	10.75	-291.2	-2120.8	-135.54	-153.99	-42.62
	SLD +	-97.74	78.38	36.53	95.4	-1219.4	-84.08	85.28	39.49
27 22	SLU Statiche -	1661.58	-102.54	-150.18	-2196.4	837.2	1671.56	-114.12	-4.41
	SLU Statiche +	1833.24	-87.42	-132.54	-1977.2	901.5	1844.82	-97.41	-4.31
	SLV -	1301.04	-147.67	-131.08	-1625.4	502.1	1306.20	-152.80	-5.42
	SLV +	1351.80	-5.11	-84.87	-1558.0	788.5	1363.94	-17.38	-3.38
	SLE Rare -	1214.28	-75.95	-107.11	-1588.7	607.1	1221.61	-84.09	-4.34
	SLE Rare +	1325.78	-67.22	-97.21	-1449.3	655.3	1333.91	-74.55	-4.31
	SLE Frequenti -	1176.87	-67.65	-98.08	-1452.3	581.1	1183.99	-75.11	-4.35
	SLE Frequenti +	1214.92	-64.34	-94.22	-1403.8	597.1	1222.38	-71.45	-4.32
	SLE Quasi Permanenti -	1177.76	-64.74	-94.78	-1405.8	581.1	1184.95	-71.93	-4.34
	SLE Quasi Permanenti +	1177.76	-64.74	-94.78	-1405.8	581.1	1184.95	-71.93	-4.34
	SLD -	1315.63	-106.60	-117.80	-1606.1	584.5	1322.48	-113.43	-4.81
	SLD +	1337.21	-46.18	-98.16	-1577.4	706.1	1347.02	-56.03	-3.95
34 32	SLU Statiche -	104.66	144.59	52.12	74.2	765.6	68.81	180.44	-35.89
	SLU Statiche +	112.19	148.65	54.60	86.2	873.6	72.69	187.65	-34.06
	SLV -	45.32	29.63	-32.13	-308.7	297.1	-44.96	-47.89	-44.96
	SLV +	99.82	168.28	102.84	444.4	750.3	157.80	204.55	44.91
	SLE Rare -	76.66	102.72	37.26	60.1	564.3	49.77	129.31	-35.56
	SLE Rare +	77.80	105.43	38.40	66.9	576.6	50.81	132.42	-35.11
	SLE Frequenti -	72.35	99.18	34.58	72.1	532.9	48.54	122.90	-34.88
	SLE Frequenti +	73.91	100.25	35.25	75.2	554.8	49.34	124.47	-34.31
	SLE Quasi Permanenti -	72.35	99.25	34.58	74.9	536.0	48.71	122.90	-34.37
	SLE Quasi Permanenti +	72.35	99.25	34.58	74.9	536.0	48.71	122.90	-34.37
	SLD -	60.98	69.47	6.59	-91.8	427.2	8.10	90.73	-42.69
	SLD +	84.16	128.43	64.12	227.5	620.2	78.82	157.83	-9.60
26 28	SLU Statiche -	25.05	176.94	38.86	-86.6	623.2	15.69	186.31	-13.69
	SLU Statiche +	26.76	182.02	40.21	-85.7	726.3	16.97	191.82	-13.41
	SLV -	-22.09	73.14	-54.08	-407.0	229.4	-67.65	73.37	-32.26
	SLV +	52.42	169.76	108.19	294.7	600.9	43.68	204.12	22.32
	SLE Rare -	16.87	126.24	28.03	-58.2	455.8	10.12	133.09	-13.67
	SLE Rare +	18.08	129.57	28.51	-57.2	471.3	11.21	136.44	-13.53
	SLE Frequenti -	14.52	121.81	26.89	-55.9	425.3	8.16	128.20	-13.38
	SLE Frequenti +	15.01	123.12	27.20	-55.5	446.3	8.60	129.52	-13.30
	SLE Quasi Permanenti -	14.52	121.93	26.89	-55.5	428.7	8.16	128.28	-13.30
	SLE Quasi Permanenti +	14.52	121.93	26.89	-55.5	428.7	8.16	128.28	-13.30
	SLD -	-0.62	100.97	-7.53	-205.6	336.5	-19.47	103.80	-24.80
	SLD +	30.95	141.92	61.64	93.3	493.9	28.45	157.01	3.98
27 33	SLU Statiche -	-90.45	-33.32	36.00	1007.4	-2054.7	-107.84	-15.93	-25.79
	SLU Statiche +	-82.07	45.34	38.25	1044.1	-1932.0	-92.67	55.94	-15.49
	SLV -	-133.40	-297.48	11.03	209.3	-4002.2	-128.91	-303.14	-22.65
	SLV +	14.96	385.08	40.61	1238.3	1236.7	11.02	386.04	26.48
	SLE Rare -	-62.78	1.65	25.23	732.1	-1433.3	-71.85	10.35	-19.34
	SLE Rare +	-61.79	32.32	27.23	753.6	-1405.9	-69.10	39.63	-15.03
	SLE Frequenti -	-61.92	-3.63	23.15	695.1	-1371.1	-70.09	4.54	-19.32
	SLE Frequenti +	-60.21	13.13	23.82	705.0	-1346.3	-67.27	20.18	-16.50
	SLE Quasi Permanenti -	-60.54	2.90	23.15	695.1	-1346.3	-68.09	10.45	-18.06
	SLE Quasi Permanenti +	-60.54	2.90	23.15	695.1	-1346.3	-68.09	10.45	-18.06
	SLD -	-90.73	-101.60	19.55	505.1	-2498.4	-115.28	-122.85	-44.66
	SLD +	-27.70	189.20	32.09	942.6	-267.0	-32.33	191.56	43.30

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
32 36	SLU Statiche -	-103.51	-135.04	80.69	730.3	332.0	-33.04	-207.63	38.84
	SLU Statiche +	-97.50	-131.40	87.28	791.2	403.8	-30.36	-196.90	39.97
	SLV -	-91.85	-179.88	6.92	63.6	37.9	-148.92	-180.28	-44.89
	SLV +	-46.80	-0.62	103.70	941.1	413.5	23.67	71.89	43.39
	SLE Rare -	-73.00	-95.79	59.09	534.1	244.7	-23.06	-145.80	39.65
	SLE Rare +	-71.89	-93.36	60.34	542.6	255.6	-22.30	-142.95	39.91
	SLE Frequenti -	-71.14	-91.54	54.94	498.9	236.6	-24.51	-138.41	39.59
	SLE Frequenti +	-69.92	-90.59	56.34	511.8	251.3	-23.95	-136.25	39.95
	SLE Quasi Permanenti -	-70.12	-90.70	54.94	498.9	240.2	-24.51	-136.31	39.70
	SLE Quasi Permanenti +	-70.12	-90.70	54.94	498.9	240.2	-24.51	-136.31	39.70
	SLD -	-78.88	-128.42	34.69	316.4	145.7	-138.80	-144.25	-44.66
	SLD +	-59.76	-52.08	75.93	688.3	305.7	12.32	15.11	44.57
103 101	SLU Statiche -	142.22	7.07	-69.10	-163.9	-803.2	170.01	-20.72	-22.67
	SLU Statiche +	159.31	9.13	-67.29	-148.9	-781.6	186.26	-17.83	-21.31
	SLV -	69.84	-4.81	-53.65	-109.4	-604.8	90.66	-30.98	-27.08
	SLV +	105.36	11.61	-40.28	-79.2	-484.2	126.56	-4.83	-20.79
	SLE Rare -	99.15	4.47	-50.61	-114.9	-575.9	120.09	-16.61	-23.11
	SLE Rare +	110.54	5.84	-48.92	-104.9	-563.3	131.00	-14.62	-22.01
	SLE Frequenti -	87.76	3.81	-47.00	-98.2	-542.5	108.37	-16.85	-24.03
	SLE Frequenti +	92.31	4.34	-46.33	-94.2	-536.3	112.69	-16.05	-23.45
	SLE Quasi Permanenti -	87.81	3.95	-46.33	-94.2	-536.3	108.37	-16.60	-23.93
	SLE Quasi Permanenti +	87.81	3.95	-46.33	-94.2	-536.3	108.37	-16.60	-23.93
	SLD -	80.04	-0.10	-49.81	-100.7	-570.1	100.94	-23.20	-25.38
	SLD +	95.16	6.90	-44.12	-87.9	-518.9	116.22	-12.06	-22.70
108 119	SLU Statiche -	1.00	130.56	7.93	327.4	158.8	0.53	131.05	-3.52
	SLU Statiche +	3.35	147.97	8.03	335.9	177.0	2.91	148.41	-3.17
	SLV -	-3.64	65.49	2.25	-55.2	85.4	-4.58	66.15	-6.66
	SLV +	2.82	91.17	9.05	532.8	110.4	2.75	91.38	-1.80
	SLE Rare -	0.27	89.62	5.79	239.6	110.4	-0.11	90.01	-3.78
	SLE Rare +	1.42	101.23	5.97	250.2	122.5	1.07	101.58	-3.41
	SLE Frequenti -	-0.84	78.92	5.50	224.7	98.0	-1.23	79.31	-3.96
	SLE Frequenti +	-0.26	83.53	5.57	228.2	102.8	-0.63	83.90	-3.79
	SLE Quasi Permanenti -	-0.72	79.12	5.50	224.7	98.0	-1.10	79.50	-3.92
	SLE Quasi Permanenti +	-0.72	79.12	5.50	224.7	98.0	-1.10	79.50	-3.92
	SLD -	-1.79	72.88	4.20	113.5	92.6	-2.40	73.39	-5.14
	SLD +	0.96	83.78	7.10	364.1	103.2	0.73	84.09	-3.08
104 114	SLU Statiche -	-9.20	125.25	-2.73	258.7	156.1	-9.24	125.31	0.98
	SLU Statiche +	-6.84	142.83	-2.32	287.4	174.2	-6.89	142.88	1.15
	SLV -	-11.84	60.30	-4.14	-42.2	84.4	-11.84	60.30	-0.31
	SLV +	-2.74	87.99	0.40	435.9	108.5	-2.94	88.14	3.02
	SLE Rare -	-6.91	85.55	-2.06	196.8	108.8	-6.94	85.59	1.14
	SLE Rare +	-6.01	97.27	-1.87	213.1	120.8	-6.05	97.31	1.25
	SLE Frequenti -	-7.63	74.63	-1.74	176.4	96.6	-7.66	74.67	1.14
	SLE Frequenti +	-7.07	79.29	-1.64	183.8	101.4	-7.10	79.32	1.20
	SLE Quasi Permanenti -	-7.43	74.79	-1.67	177.2	96.6	-7.46	74.83	1.16
	SLE Quasi Permanenti +	-7.43	74.79	-1.67	177.2	96.6	-7.46	74.83	1.16
	SLD -	-9.23	68.26	-2.84	95.0	91.3	-9.24	68.28	0.66
	SLD +	-5.35	80.03	-0.90	298.8	101.5	-5.44	80.11	2.00
101 111	SLU Statiche -	-20.21	114.70	-0.89	-206.2	66.7	-20.22	114.70	0.22
	SLU Statiche +	-18.34	132.43	-0.52	-172.4	81.6	-18.34	132.43	0.34
	SLV -	-21.94	53.26	-2.13	-269.3	23.7	-21.95	53.26	-0.74

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLV +	-9.50	79.57	0.99	25.5	46.0	-9.55	79.61	1.39
	SLE Rare -	-15.54	77.82	-0.76	-131.8	43.6	-15.54	77.83	0.38
	SLE Rare +	-14.29	89.64	-0.62	-122.9	53.4	-14.30	89.65	0.42
	SLE Frequenti -	-15.01	66.74	-0.60	-137.8	35.4	-15.02	66.74	0.36
	SLE Frequenti +	-14.56	71.45	-0.51	-130.8	39.3	-14.56	71.45	0.40
	SLE Quasi Permanenti -	-14.78	66.85	-0.55	-133.8	35.6	-14.78	66.85	0.38
	SLE Quasi Permanenti +	-14.78	66.85	-0.55	-133.8	35.6	-14.78	66.85	0.38
	SLD -	-18.37	60.82	-1.23	-184.7	30.1	-18.37	60.82	-0.07
	SLD +	-13.07	72.01	0.10	-59.1	39.6	-13.08	72.02	0.84
115 129	SLU Statiche -	-6.31	218.47	-90.84	656.0	246.5	-38.03	248.63	18.34
	SLU Statiche +	-5.60	237.46	-87.65	683.5	264.9	-35.59	267.46	19.25
	SLV -	-14.78	113.84	-70.59	319.7	132.4	-39.96	132.49	17.66
	SLV +	2.99	167.34	-50.66	600.9	190.4	-15.98	192.36	21.92
	SLE Rare -	-5.60	154.43	-65.83	478.8	175.5	-27.93	176.85	18.70
	SLE Rare +	-5.18	167.10	-63.85	487.3	187.8	-27.45	189.37	19.32
	SLE Frequenti -	-6.03	140.76	-61.31	456.8	161.5	-28.10	162.51	19.48
	SLE Frequenti +	-5.85	145.81	-60.52	463.1	166.4	-27.53	167.50	19.84
	SLE Quasi Permanenti -	-6.02	140.82	-60.52	456.8	161.5	-27.74	162.54	19.75
	SLE Quasi Permanenti +	-6.02	140.82	-60.52	456.8	161.5	-27.74	162.54	19.75
	SLD -	-9.68	129.21	-64.85	400.3	149.0	-32.87	149.69	18.91
	SLD +	-2.11	151.97	-56.40	520.2	173.7	-22.67	175.15	20.69
113 127	SLU Statiche -	16.17	188.77	-19.41	882.8	29.7	14.05	190.72	5.57
	SLU Statiche +	17.66	207.27	-18.46	914.5	47.4	15.84	209.09	6.24
	SLV -	3.19	98.52	-15.25	374.1	4.0	1.73	99.88	6.48
	SLV +	16.46	139.28	-10.78	868.4	14.8	14.86	140.98	7.04
	SLE Rare -	10.85	132.17	-13.65	642.2	17.5	9.36	133.66	5.82
	SLE Rare +	11.94	144.51	-13.52	652.8	27.6	10.55	145.90	6.29
	SLE Frequenti -	9.65	119.03	-13.22	613.6	9.4	8.12	120.57	6.47
	SLE Frequenti +	10.09	123.96	-13.03	621.7	13.9	8.61	125.44	6.76
	SLE Quasi Permanenti -	9.65	119.08	-13.03	613.6	10.1	8.12	120.61	6.70
	SLE Quasi Permanenti +	9.65	119.08	-13.03	613.6	10.1	8.12	120.61	6.70
	SLD -	7.00	110.24	-13.97	515.9	7.1	5.50	111.69	6.60
	SLD +	12.65	127.57	-12.07	726.6	11.7	11.09	129.17	6.84
112 125	SLU Statiche -	-4.45	156.31	13.78	695.9	162.7	-5.64	157.49	-4.88
	SLU Statiche +	-2.46	173.81	14.06	715.6	181.4	-3.57	174.93	-4.53
	SLV -	-6.83	82.66	5.92	199.1	86.1	-7.20	83.22	-7.64
	SLV +	-1.72	110.01	13.28	780.2	114.8	-3.36	111.30	-3.42
	SLE Rare -	-3.68	108.41	9.96	504.7	113.0	-4.56	109.31	-5.12
	SLE Rare +	-2.79	120.07	10.32	514.6	125.5	-3.65	120.93	-4.77
	SLE Frequenti -	-4.45	96.52	9.38	480.9	100.9	-5.32	97.40	-5.30
	SLE Frequenti +	-3.96	101.18	9.52	486.8	105.8	-4.82	102.03	-5.13
	SLE Quasi Permanenti -	-4.32	96.58	9.38	480.9	101.0	-5.18	97.45	-5.27
	SLE Quasi Permanenti +	-4.32	96.58	9.38	480.9	101.0	-5.18	97.45	-5.27
	SLD -	-5.37	90.53	8.03	365.8	94.4	-6.02	91.28	-6.32
	SLD +	-3.19	102.15	11.17	613.5	106.5	-4.39	103.21	-4.53
109 124	SLU Statiche -	-4.24	142.07	15.53	491.2	158.1	-5.88	143.71	-6.02
	SLU Statiche +	-2.60	159.51	15.67	497.8	176.3	-4.10	161.01	-5.47
	SLV -	-4.53	74.70	6.58	43.7	84.3	-5.94	76.44	-9.71
	SLV +	-3.32	98.00	15.28	651.0	110.1	-4.96	98.99	-4.19
	SLE Rare -	-3.50	98.00	11.21	355.0	109.6	-4.71	99.28	-6.37
	SLE Rare +	-2.77	109.63	11.55	363.8	121.7	-3.94	110.80	-5.81

Nodi Ni - Nk	Comb.	m_x [kgm/m]	m_y [kgm/m]	m_{xy} [kgm/m]	t_x [kg/m]	t_y [kg/m]	m_1 [kgm/m]	m_2 [kgm/m]	Angolo [°]
	SLE Frequenti -	-4.14	86.68	10.60	336.5	97.6	-5.38	87.92	-6.63
	SLE Frequenti +	-3.74	91.31	10.73	340.0	102.4	-4.93	92.51	-6.36
	SLE Quasi Permanenti -	-4.03	86.79	10.60	336.5	97.7	-5.25	88.01	-6.57
	SLE Quasi Permanenti +	-4.03	86.79	10.60	336.5	97.7	-5.25	88.01	-6.57
	SLD -	-4.19	81.42	9.07	217.9	91.7	-5.48	82.89	-8.01
	SLD +	-3.67	91.29	12.78	476.8	102.7	-5.07	92.45	-5.65

Valutazione Effetti NON-Lineari Pd_r/Vh

$V_x\ \Theta_x = P\ d_{r,x}\ /h$

$V_y\ \Theta_y = P\ d_{r,y}\ /h$

$V\ \Theta = P\ d_r\ /h$ dove: $d_r=sqrt(d_{r,x}^2+d_{r,y}^2)$

Controllo combinazioni 46 .. 77

Fattore di struttura 1.00

Fattore di importanza γ_i 1.00

Modalità di calcolo: spostamenti d'interpiano medi

Massimi

Interpiano Solai	Comb.	Altezza [m]	P [kN]	Direzione x				Direzione y				Direzione $U=\sqrt{d_{r,x}^2+d_{r,y}^2}$			
				V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ
1 0	61	4.52	362.48	-12.67	0.02	0.02	0.0014								
1 0	49	4.52	361.79					-2.56	0.03	0.03	0.0106				
1 0	76	4.52	362.14									76.86	0.04	0.05	0.0005

Dettaglio risultati

Interpiano Solai	Comb.	Altezza [m]	P [kN]	Direzione x				Direzione y				Direzione $U=\sqrt{d_{r,x}^2+d_{r,y}^2}$			
				V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ
1 0	46	4.52	361.62	70.67	0.02	0.03	0.0003	40.39	0.03	0.04	0.0009	81.39	0.04	0.05	0.0005
	47	4.52	361.93	71.33	0.02	0.03	0.0003	40.44	0.03	0.04	0.0009	82.00	0.04	0.05	0.0005
	48	4.52	361.49	66.53	0.01	0.02	0.0002	-2.62	0.03	0.03	0.0103	66.58	0.03	0.04	0.0005
	49	4.52	361.79	67.19	0.01	0.02	0.0002	-2.56	0.03	0.03	0.0106	67.24	0.03	0.04	0.0005
	50	4.52	361.28	73.74	0.02	0.03	0.0003	22.22	0.03	0.04	0.0015	77.02	0.04	0.05	0.0005
	51	4.52	361.58	74.41	0.02	0.03	0.0003	22.28	0.03	0.04	0.0015	77.67	0.04	0.05	0.0005
	52	4.52	361.14	69.60	0.01	0.02	0.0002	-20.78	0.03	0.03	0.0013	72.64	0.03	0.04	0.0004
	53	4.52	361.45	70.27	0.01	0.02	0.0002	-20.73	0.03	0.03	0.0013	73.26	0.03	0.04	0.0004
	54	4.52	361.44	26.47	0.02	0.03	0.0009	77.26	0.03	0.04	0.0004	81.67	0.04	0.05	0.0005
	55	4.52	361.34	27.39	0.02	0.03	0.0008	71.81	0.03	0.04	0.0005	76.86	0.04	0.05	0.0005
	56	4.52	361.56	-15.81	0.02	0.02	0.0011	71.36	0.03	0.03	0.0004	73.09	0.03	0.04	0.0004
	57	4.52	361.46	-14.89	0.02	0.02	0.0012	65.91	0.03	0.03	0.0004	67.57	0.03	0.04	0.0005
	58	4.52	362.46	28.69	0.02	0.03	0.0008	77.45	0.03	0.04	0.0004	82.59	0.04	0.05	0.0005
	59	4.52	362.36	29.61	0.02	0.03	0.0008	72.00	0.03	0.04	0.0005	77.85	0.04	0.05	0.0005
	60	4.52	362.58	-13.59	0.02	0.02	0.0013	71.55	0.03	0.03	0.0004	72.83	0.03	0.04	0.0004
	61	4.52	362.48	-12.67	0.02	0.02	0.0014	66.10	0.03	0.03	0.0004	67.30	0.03	0.04	0.0005
	62	4.52	362.03	-70.27	0.01	0.02	0.0002	20.73	0.03	0.03	0.0013	73.26	0.03	0.04	0.0004
	63	4.52	362.33	-69.60	0.01	0.02	0.0002	20.78	0.03	0.03	0.0013	72.64	0.03	0.04	0.0004
	64	4.52	361.89	-74.41	0.02	0.03	0.0003	-22.28	0.03	0.04	0.0015	77.67	0.04	0.05	0.0005
	65	4.52	362.20	-73.74	0.02	0.03	0.0003	-22.22	0.03	0.04	0.0015	77.02	0.04	0.05	0.0005
	66	4.52	361.68	-67.19	0.01	0.02	0.0002	2.56	0.03	0.03	0.0106	67.24	0.03	0.04	0.0005
	67	4.52	361.99	-66.53	0.01	0.02	0.0002	2.62	0.03	0.03	0.0104	66.58	0.03	0.04	0.0005
	68	4.52	361.55	-71.33	0.02	0.03	0.0003	-40.44	0.03	0.04	0.0008	82.00	0.04	0.05	0.0005
	69	4.52	361.85	-70.67	0.02	0.03	0.0003	-40.39	0.03	0.04	0.0009	81.39	0.04	0.05	0.0005
	70	4.52	361.00	12.67	0.02	0.02	0.0014	-66.10	0.03	0.03	0.0004	67.30	0.03	0.04	0.0005
	71	4.52	360.89	13.59	0.02	0.02	0.0013	-71.55	0.03	0.03	0.0004	72.83	0.03	0.04	0.0004
	72	4.52	361.12	-29.61	0.02	0.03	0.0008	-72.00	0.03	0.04	0.0005	77.85	0.04	0.05	0.0005
	73	4.52	361.01	-28.69	0.02	0.03	0.0008	-77.45	0.03	0.04	0.0004	82.59	0.04	0.05	0.0005

74	4.52	362.01	14.89	0.02	0.02	0.0012	-65.91	0.03	0.03	0.0004	67.57	0.03	0.04	0.0005
75	4.52	361.91	15.81	0.02	0.02	0.0011	-71.36	0.03	0.03	0.0004	73.09	0.03	0.04	0.0004
76	4.52	362.14	-27.39	0.02	0.03	0.0008	-71.81	0.03	0.04	0.0005	76.86	0.04	0.05	0.0005
77	4.52	362.03	-26.47	0.02	0.03	0.0009	-77.26	0.03	0.04	0.0004	81.67	0.04	0.05	0.0005

Valutazione Effetti NON-Lineari Pd_r/Vh

$V_x \Theta_x = P\, d_{r,x} /h$

$V_y \Theta_y = P\, d_{r,y} /h$

$V\, \Theta = P\, d_r /h$ dove: $d_r=sqrt(d_{r,x}^2+d_{r,y}^2)$

Controllo combinazioni 5 .. 36

Fattore di struttura 1.00

Fattore di importanza γ_i 1.00

Modalità di calcolo: spostamenti d'interpiano medi

Massimi

Interpiano Solai	Comb.	Altezza [m]	P [kN]	Direzione x				Direzione y				Direzione $U=\sqrt{d_{r,x}^2+d_{r,y}^2}$			
				V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ
1 0	20	4.52	363.48	-30.15	0.03	0.04	0.0010								
1 0	8	4.52	361.86					-6.21	0.04	0.05	0.0064				
1 0	35	4.52	362.67									180.45	0.07	0.09	0.0004

Dettaglio risultati

Interpiano Solai	Comb.	Altezza [m]	P [kN]	Direzione x				Direzione y				Direzione $U=\sqrt{d_{r,x}^2+d_{r,y}^2}$			
				V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ	V [kN]	P d_r/h [kN]	d_r [cm]	Θ
1 0	5	4.52	361.46	166.24	0.04	0.04	0.0002	94.71	0.06	0.07	0.0006	191.33	0.07	0.08	0.0004
	6	4.52	362.18	167.80	0.04	0.05	0.0002	94.86	0.06	0.07	0.0006	192.76	0.07	0.08	0.0003
	7	4.52	361.15	156.69	0.02	0.03	0.0001	-6.36	0.04	0.05	0.0062	156.82	0.04	0.06	0.0003
	8	4.52	361.86	158.25	0.02	0.02	0.0001	-6.21	0.04	0.05	0.0064	158.37	0.04	0.06	0.0003
	9	4.52	360.65	173.57	0.04	0.05	0.0002	51.96	0.05	0.07	0.0011	181.18	0.07	0.08	0.0004
	10	4.52	361.37	175.12	0.04	0.05	0.0002	52.12	0.05	0.07	0.0010	182.71	0.07	0.08	0.0004
	11	4.52	360.34	164.01	0.02	0.03	0.0001	-49.10	0.04	0.05	0.0008	171.20	0.04	0.05	0.0003
	12	4.52	361.05	165.57	0.02	0.03	0.0001	-48.95	0.04	0.05	0.0008	172.65	0.04	0.05	0.0003
	13	4.52	361.05	62.00	0.04	0.05	0.0007	181.47	0.05	0.07	0.0003	191.77	0.07	0.09	0.0004
	14	4.52	360.80	64.20	0.04	0.05	0.0007	168.65	0.05	0.07	0.0003	180.45	0.07	0.09	0.0004
	15	4.52	361.33	-37.54	0.03	0.04	0.0008	167.74	0.04	0.05	0.0002	171.89	0.05	0.06	0.0003
	16	4.52	361.09	-35.34	0.03	0.04	0.0009	154.92	0.04	0.05	0.0002	158.90	0.05	0.06	0.0003
	17	4.52	363.44	67.20	0.04	0.05	0.0006	181.98	0.05	0.07	0.0003	193.99	0.07	0.09	0.0004
	18	4.52	363.19	69.39	0.04	0.05	0.0006	169.15	0.05	0.07	0.0003	182.83	0.07	0.09	0.0004
	19	4.52	363.73	-32.35	0.03	0.04	0.0010	168.25	0.04	0.05	0.0002	171.33	0.05	0.06	0.0003
	20	4.52	363.48	-30.15	0.03	0.04	0.0010	155.42	0.04	0.05	0.0002	158.32	0.05	0.06	0.0003
	21	4.52	362.42	-165.57	0.02	0.03	0.0001	48.95	0.04	0.05	0.0008	172.65	0.04	0.05	0.0003
	22	4.52	363.14	-164.01	0.02	0.03	0.0001	49.10	0.04	0.05	0.0008	171.20	0.04	0.05	0.0003
	23	4.52	362.10	-175.12	0.04	0.05	0.0002	-52.12	0.05	0.07	0.0010	182.71	0.07	0.08	0.0004
	24	4.52	362.82	-173.57	0.04	0.05	0.0002	-51.96	0.05	0.07	0.0011	181.18	0.07	0.08	0.0004
	25	4.52	361.61	-158.25	0.02	0.02	0.0001	6.21	0.04	0.05	0.0064	158.37	0.04	0.06	0.0003
	26	4.52	362.33	-156.69	0.02	0.03	0.0001	6.36	0.04	0.05	0.0062	156.82	0.04	0.06	0.0003
	27	4.52	361.29	-167.80	0.04	0.05	0.0002	-94.86	0.06	0.07	0.0006	192.76	0.07	0.08	0.0003
	28	4.52	362.01	-166.24	0.04	0.04	0.0002	-94.71	0.06	0.07	0.0006	191.33	0.07	0.08	0.0004
	29	4.52	359.99	30.15	0.03	0.04	0.0010	-155.42	0.04	0.05	0.0002	158.32	0.05	0.06	0.0003
	30	4.52	359.75	32.35	0.03	0.04	0.0009	-168.25	0.04	0.05	0.0002	171.33	0.05	0.06	0.0003
	31	4.52	360.28	-69.39	0.04	0.05	0.0006	-169.15	0.05	0.07	0.0003	182.83	0.07	0.09	0.0004
	32	4.52	360.04	-67.20	0.04	0.05	0.0006	-181.98	0.05	0.07	0.0003	193.99	0.07	0.09	0.0004

33	4.52	362.38	35.34	0.03	0.04	0.0009	-154.92	0.04	0.05	0.0002	158.90	0.05	0.06	0.0003
34	4.52	362.14	37.54	0.03	0.04	0.0008	-167.74	0.04	0.05	0.0002	171.89	0.05	0.06	0.0003
35	4.52	362.67	-64.20	0.04	0.05	0.0007	-168.65	0.05	0.07	0.0003	180.45	0.07	0.09	0.0004
36	4.52	362.43	-62.00	0.04	0.05	0.0007	-181.47	0.05	0.07	0.0003	191.77	0.07	0.09	0.0004

AMPLIAMENTO CIVICO CIMITERO MASSA FERMANA – CORPO C – VERIFICA DEI NODI

Verifiche resistenza dei nodi

Per le verifiche di fessurazione diagonale usa le formule TU 2018 7.4.11-7.4.12

Nodo	Pilastro di riferimento	Ingombro nodo		Materiali		Staffe	Verifica compressione diagonale															Verifica fessurazione diagonale												Note
		B [cm]	H [cm]	f_{ck}	Acciaio		$\nu_{d,x}$	$\alpha_{j,x}$	η_x	$b_{j,x}$ [cm]	$h_{j,x}$ [cm]	$V_{jbd,Edx}$ [kN]	$V_{jbd,Rdx}$ [kN]	$\nu_{d,y}$	$\alpha_{j,y}$	η_y	$b_{j,y}$ [cm]	$h_{j,y}$ [cm]	$V_{jbd,Edy}$ [kN]	$V_{jbd,Rdy}$ [kN]	ν	b_x [cm]	h_x [cm]	$As_{1,x}$ [cm²]	$As_{2,x}$ [cm²]	$V_{jbd,Edx}$ [kN]	$V_{jbd,Rdx}$ [kN]	b_y [cm]	h_y [cm]	$As_{1,y}$ [cm²]	$As_{2,y}$ [cm²]	$V_{jbd,Edy}$ [kN]	$V_{jbd,Rdy}$ [kN]	
3	3 103	25	35	C25/30	B 450 C	ø 8/7.5	0.042	0.48	0.432	47	15	408.86	211.78	0.042	0.48	0.432	42	25	613.30	211.77	0.00000	47	38	4.92		211.83	236.03	42	38	4.92		211.83	236.03	
7	7 107	25	35	C25/30	B 450 C	ø 10/4.5	0.034	0.48	0.432	47	15	413.03	126.85	0.035	0.60	0.540	42	25	779.79	522.58	0.00000	47	38	2.95		127.10	553.19	42	38	5.35		523.56	553.19	
11	11 111	25	35	C25/30	B 450 C	ø 10/4.5	0.032	0.48	0.432	47	15	413.96	127.00	0.033	0.60	0.540	42	25	781.62	540.56	0.00000	47	38	2.95		127.10	553.19	42	38	4.92		540.84	553.19	
14	14 114	25	35	C25/30	B 450 C	ø 10/4.5	0.036	0.48	0.432	47	15	412.15	127.08	0.036	0.60	0.540	42	25	779.35	540.60	0.00000	47	38	2.95		127.10	553.19	42	38	4.92		540.84	553.19	
19	19 119	25	35	C25/30	B 450 C	ø 10/4.5	0.036	0.48	0.432	47	15	412.22	127.08	0.035	0.60	0.540	42	25	779.54	540.83	0.00000	47	38	2.95		127.10	553.19	42	38	4.92		540.84	553.19	
24	24 124	25	35	C25/30	B 450 C	ø 10/4.5	0.035	0.48	0.432	47	15	412.51	127.10	0.034	0.60	0.540	42	25	780.44	540.71	0.00000	47	38	2.95		127.10	553.19	42	38	4.92		540.84	553.19	
25	25 125	25	35	C25/30	B 450 C	ø 10/4.5	0.035	0.48	0.432	47	15	412.38	127.03	0.033	0.60	0.540	42	25	781.13	504.96	0.00000	47	38	2.95		127.10	553.19	42	38	4.92		505.09	553.19	
27	27 127	25	35	C25/30	B 450 C	ø 10/4.5	0.039	0.48	0.432	47	15	410.25	127.02	0.041	0.60	0.540	42	25	775.37	503.55	0.00000	47	38	2.95		127.10	553.19	42	38	4.92		505.09	553.19	
29	29 129	25	35	C25/30	B 450 C	ø 8/7.5	0.044	0.48	0.432	47	15	407.81	211.14	0.039	0.48	0.432	42	25	615.00	211.75	0.00000	47	38	4.92		211.83	236.03	42	38	4.92		211.83	236.03	
103	3 103	25	35	C25/30	B 450 C	ø 8/5.0	0.000	0.48	0.432	35	15	317.09	89.44	0.000	0.48	0.432	25	25	379.53	86.49	0.05231	35	11	2.08		85.69	118.01	25	30	2.01		82.87	236.03	
107	7 107	25	35	C25/30	B 450 C	ø 8/5.0	0.000	0.48	0.432	35	15	317.09	89.39	0.000	0.60	0.540	25	25	474.41	213.48	0.04188	35	11	2.08		86.39	118.01	25	30	2.18		206.32	236.03	
111	11 111	25	35	C25/30	B 450 C	ø 8/5.0	0.000	0.48	0.432	35	15	317.09	89.39	0.000	0.60	0.540	25	25	474.41	206.04	0.03886	35	11	2.08		86.61	118.01	25	30	2.01		199.63	236.03	
114	14 114	25	35	C25/30	B 450 C	ø 8/5.0	0.000	0.48	0.432	35	15	317.09	89.54	0.000	0.60	0.540	25	25	474.41	218.93	0.04312	35	11	2.08		86.45	118.01	25	30	2.01		211.38	236.03	
119	19 119	25	35	C25/30	B 450 C	ø 8/5.0	0.000	0.48	0.432	35	15	317.09	89.54	0.000	0.60	0.540	25	25	474.41	218.93	0.04356	35	11	2.08		86.42	118.01	25	30	2.01		211.30	236.03	
124	24 124	25	35	C25/30	B 450 C	ø 8/5.0	0.000	0.48	0.432	35	15	317.09	89.54	0.000	0.60	0.540	25	25	474.41	218.93	0.04229	35	11	2.08		86.51	118.01	25	30	2.01		211.52	236.03	
125	25 125	25	35	C25/30	B 450 C	ø 8/5.0	0.000	0.48	0.432	35	15	317.09	89.54	0.000	0.60	0.540	25	25	474.41	206.04	0.04153	35	11	2.08		86.57	118.01	25	30	2.01		199.19	236.03	
127	27 127	25	35	C25/30	B 450 C	ø 8/5.0	0.000	0.48	0.432	35	15	317.09	89.54	0.000	0.60	0.540	25	25	474.41	213.57	0.04741	35	11	2.08		86.14	118.01	25	30	2.18		205.47	236.03	
129	29 129	25	35	C25/30	B 450 C	ø 8/5.0	0.000	0.48	0.432	35	15	317.09	89.54	0.000	0.48	0.432	25	25	379.53	86.41	0.04959	35	11	2.08		85.99	118.01	25	30	2.01		82.98	236.03	

Verifiche pali

Modalità di verifica

Il comportamento del palo è caratterizzato definendo il suo funzionamento per attrito laterale, resistenza di punta e rigidezza trasversale.

E' possibile tenere conto dell'efficienza del palo isolato o del gruppo di pali, sia alle azioni orizzontali che verticali.

E' possibile tenere conto della presenza di uno zoccolo rigido in sommità al palo o al gruppo di pali. Tale elemento influenza unicamente l'entità dei momenti di trasporto.

Le coordinate del centro del gruppo di pali possono essere coincidenti con il baricentro geometrico dei pali o fissate dall'utente.

La distanza minima di interferenza fra pali è misurata fra i centri ed è stabilita dall'Utente.

L'angolo di carico flessionale definisce la semiampiezza del cono di carico del palo nella direzione dello spostamento. Se non vi sono pali nel cono di carico a distanza inferiore alla distanza di interferenza minima il palo viene considerato isolato.

Viene condotta la verifica a presso/tensoflessione deviata dei pali in c.a. La verifica viene condotta in ciascuno dei conci in cui è diviso il fusto del palo.

Non viene condotta la verifica a taglio.

Dati Generali

- Lunghezza dei pali 9.00 [m]
- Altezza dello zoccolo di fondazione 0.50 [m]
- Centro della palificata 0.00 0.00 [m]
- Efficienza assiale dei pali esterni 1
- Efficienza assiale dei pali interni 1
- Efficienza flessionale dei pali esterni 1
- Efficienza flessionale dei pali interni 1
- Angolo di carico flessionale 90.00 [°]
- Distanza d'interazione flessionale 3.00 [m]

Sezione Circolare PALO FI 50 D=50 [cm]

- D 50 [cm]
- Circonferenza 157 [cm]
- Area 1963.50 [cm²]
- J 306796 [cm^4]
- Jt 613592 [cm^4]
- X 1.00

Materiale

- E 300000.0 [kg/cm²]
- v 0.12

Dati relativi al terreno:

Dati per il calcolo della rigidezza assiale:

Variazione delle costanti di Winkler assiali con la profondita'

z [m]	kv [kg/cm³]
0.00	2.0

NON c'e' Rigidezza per punta

Dati per il calcolo della rigidezza flessionale:

Variazione delle costanti di Winkler laterali con la profondita'

z [m]	kh [kg/cm³]
0.00	2.0

Dati relativi al progetto-verifica delle armature:

Calcestruzzo *C 25/30* :

- fcd 141.7 [kg/cm²]

Acciaio *B 450 C* :

- fyd 3913.0 [kg/cm²]

Criterio di verifica:

- Copriferro : 7.50 [cm]
- Numero minimo di barre : 10
- Numero massimo di barre : 15
- Diametri [mm] : 16

Geometria palificata:

Palo	x [m]	y [m]	Inclinazione xy [°]	Inclinazione vert. [°] [°]
1	0.00	0.00	0.00	0.00

Azioni di verifica:

Cond.	Commento	x [m]	y [m]	Px [kN]	Py [kN]	Pz [kN]	Mx [kgm]	My [kgm]	Mz [kgm]
1	nodo 1 (1)			-1.45	-3.97	-329.05	-1377.0	270.8	33.8
2	nodo 1 (2)			-1.30	-3.92	-317.76	-1344.9	251.6	32.8
3	nodo 1 (3)			-1.29	-3.90	-317.26	-1342.4	248.2	32.7
4	nodo 1 (4)			-0.99	-4.01	-314.51	-1358.3	187.5	32.7
5	nodo 1 (5)			7.68	-5.91	-184.94	-1484.6	-982.6	63.6
6	nodo 1 (6)			7.48	-5.50	-186.18	-1409.5	-959.0	59.7
7	nodo 1 (7)			4.70	-8.24	-204.24	-1882.4	-600.3	48.1
8	nodo 1 (8)			4.49	-7.84	-205.48	-1807.3	-576.7	44.1
9	nodo 1 (9)			5.72	-4.57	-191.46	-1247.0	-728.5	46.8
10	nodo 1 (10)			5.52	-4.17	-192.70	-1171.9	-704.9	42.8
11	nodo 1 (11)			2.74	-6.91	-210.76	-1644.8	-346.2	31.2
12	nodo 1 (12)			2.53	-6.51	-212.00	-1569.6	-322.6	27.2
13	nodo 1 (13)			6.70	-0.82	-181.55	-627.6	-835.2	64.6
14	nodo 1 (14)			6.11	-0.42	-183.51	-556.3	-759.0	59.6
15	nodo 1 (15)			3.25	1.22	-197.23	-286.9	-379.2	51.0
16	nodo 1 (16)			2.66	1.61	-199.19	-215.6	-303.0	46.0
17	nodo 1 (17)			6.01	0.53	-185.68	-377.1	-756.5	51.4
18	nodo 1 (18)			5.42	0.92	-187.63	-305.9	-680.3	46.4
19	nodo 1 (19)			2.57	2.56	-201.36	-36.5	-300.5	37.8
20	nodo 1 (20)			1.98	2.96	-203.31	34.8	-224.3	32.8
21	nodo 1 (21)			-3.81	0.87	-237.21	-349.0	537.4	18.3
22	nodo 1 (22)			-4.01	1.27	-238.44	-273.9	561.0	14.3
23	nodo 1 (23)			-6.79	-1.47	-256.51	-746.8	919.7	2.8
24	nodo 1 (24)			-7.00	-1.07	-257.75	-671.7	943.3	-1.2
25	nodo 1 (25)			-5.77	2.20	-243.72	-111.4	791.5	1.5
26	nodo 1 (26)			-5.97	2.60	-244.96	-36.3	815.1	-2.5
27	nodo 1 (27)			-8.75	-0.14	-263.02	-509.2	1173.8	-14.1
28	nodo 1 (28)			-8.96	0.26	-264.26	-434.0	1197.4	-18.1
29	nodo 1 (29)			-3.25	-8.60	-245.89	-1953.5	439.1	12.8
30	nodo 1 (30)			-3.84	-8.20	-247.85	-1882.2	515.3	7.7
31	nodo 1 (31)			-6.70	-6.57	-261.57	-1612.8	895.1	-0.8
32	nodo 1 (32)			-7.29	-6.17	-263.53	-1541.5	971.3	-5.9
33	nodo 1 (33)			-3.94	-7.26	-250.02	-1703.1	517.8	-0.4
34	nodo 1 (34)			-4.52	-6.86	-251.97	-1631.8	594.0	-5.5
35	nodo 1 (35)			-7.38	-5.22	-265.70	-1362.4	973.8	-14.0
36	nodo 1 (36)			-7.97	-4.83	-267.65	-1291.1	1050.0	-19.1
37	nodo 1 (37)			-0.92	-2.81	-232.50	-969.2	165.9	23.5
38	nodo 1 (38)			-0.95	-2.85	-234.51	-979.1	179.4	23.9
39	nodo 1 (39)			-0.94	-2.84	-234.18	-977.5	177.1	23.8
40	nodo 1 (40)			-0.74	-2.91	-232.35	-988.0	136.6	23.8
41	nodo 1 (41)			-0.91	-2.70	-227.67	-943.6	154.3	22.6
42	nodo 1 (42)			-0.88	-2.69	-225.61	-938.2	151.8	22.5
43	nodo 1 (43)			-0.87	-2.68	-224.80	-934.2	146.5	22.3
44	nodo 1 (44)			-0.81	-2.71	-224.75	-940.5	136.7	22.4
45	nodo 1 (45)			-0.87	-2.68	-224.80	-934.2	146.5	22.3
46	nodo 2 (1)			0.66	-3.43	-315.22	-1393.2	-341.4	30.7
47	nodo 2 (2)			0.81	-3.31	-305.07	-1333.4	-358.4	30.1
48	nodo 2 (3)			0.80	-3.30	-304.39	-1331.0	-358.6	30.0
49	nodo 2 (4)			1.05	-3.40	-301.42	-1346.6	-403.7	30.0
50	nodo 2 (5)			10.46	-4.85	-227.84	-1363.4	-1790.4	66.0
51	nodo 2 (6)			10.22	-4.70	-227.11	-1340.7	-1757.4	61.9
52	nodo 2 (7)			7.04	-7.70	-234.22	-1857.3	-1281.1	48.7
53	nodo 2 (8)			6.81	-7.55	-233.49	-1834.6	-1248.1	44.7
54	nodo 2 (9)			8.06	-4.42	-223.06	-1295.5	-1409.7	47.3

55	nodo 2 (10)	7.83	-4.27	-222.33	-1272.8	-1376.7	43.2
56	nodo 2 (11)	4.65	-7.27	-229.45	-1789.4	-900.4	30.0
57	nodo 2 (12)	4.41	-7.12	-228.72	-1766.7	-867.4	25.9
58	nodo 2 (13)	9.24	0.94	-209.47	-365.2	-1573.7	66.8
59	nodo 2 (14)	8.52	1.07	-208.04	-344.8	-1459.5	61.2
60	nodo 2 (15)	5.25	3.08	-200.82	-1.2	-959.9	51.7
61	nodo 2 (16)	4.53	3.21	-199.39	19.2	-845.7	46.1
62	nodo 2 (17)	8.44	1.44	-207.05	-289.6	-1463.8	53.2
63	nodo 2 (18)	7.72	1.57	-205.61	-269.2	-1349.6	47.6
64	nodo 2 (19)	4.45	3.58	-198.40	74.5	-850.0	38.1
65	nodo 2 (20)	3.73	3.71	-196.96	94.8	-735.8	32.5
66	nodo 2 (21)	-2.83	2.27	-199.00	-149.9	255.6	15.9
67	nodo 2 (22)	-3.07	2.42	-198.28	-127.2	288.6	11.8
68	nodo 2 (23)	-6.25	-0.57	-205.39	-643.8	764.9	-1.4
69	nodo 2 (24)	-6.49	-0.42	-204.66	-621.1	797.9	-5.5
70	nodo 2 (25)	-5.23	2.71	-194.23	-82.0	636.3	-2.8
71	nodo 2 (26)	-5.47	2.86	-193.50	-59.3	669.3	-6.9
72	nodo 2 (27)	-8.64	-0.14	-200.61	-575.9	1145.6	-20.1
73	nodo 2 (28)	-8.88	0.01	-199.89	-553.2	1178.6	-24.2
74	nodo 2 (29)	-2.15	-8.55	-230.76	-2011.4	123.9	9.3
75	nodo 2 (30)	-2.87	-8.42	-229.33	-1991.0	238.1	3.7
76	nodo 2 (31)	-6.14	-6.41	-222.11	-1647.4	737.7	-5.8
77	nodo 2 (32)	-6.86	-6.28	-220.68	-1627.0	851.9	-11.4
78	nodo 2 (33)	-2.95	-8.05	-228.33	-1935.8	233.9	-4.3
79	nodo 2 (34)	-3.67	-7.92	-226.90	-1915.4	348.1	-9.9
80	nodo 2 (35)	-6.94	-5.91	-219.68	-1571.7	847.7	-19.3
81	nodo 2 (36)	-7.66	-5.78	-218.25	-1551.4	961.9	-25.0
82	nodo 2 (37)	0.58	-2.43	-221.98	-979.2	-268.6	21.4
83	nodo 2 (38)	0.60	-2.47	-224.70	-988.8	-267.9	21.8
84	nodo 2 (39)	0.59	-2.46	-224.24	-987.2	-268.0	21.8
85	nodo 2 (40)	0.76	-2.53	-222.26	-997.5	-298.1	21.8
86	nodo 2 (41)	0.53	-2.32	-216.33	-948.7	-262.9	20.6
87	nodo 2 (42)	0.56	-2.30	-214.57	-937.7	-266.3	20.6
88	nodo 2 (43)	0.55	-2.29	-213.49	-933.9	-266.5	20.4
89	nodo 2 (44)	0.61	-2.32	-213.58	-940.0	-276.4	20.5
90	nodo 2 (45)	0.55	-2.29	-213.49	-933.9	-266.5	20.4
91	nodo 3 (1)	-2.09	-4.32	-302.90	-1771.1	464.9	24.6
92	nodo 3 (2)	-2.38	-4.27	-296.63	-1729.9	576.8	24.0
93	nodo 3 (3)	-2.39	-4.26	-295.88	-1726.7	577.4	24.0
94	nodo 3 (4)	-3.05	-4.51	-298.21	-1787.6	803.3	24.2
95	nodo 3 (5)	11.06	2.44	-230.37	-307.7	-1979.2	59.1
96	nodo 3 (6)	10.70	2.40	-230.39	-317.5	-1910.0	55.0
97	nodo 3 (7)	6.23	-0.83	-239.02	-866.6	-1051.2	42.7
98	nodo 3 (8)	5.87	-0.87	-239.04	-876.4	-982.0	38.6
99	nodo 3 (9)	7.77	-5.41	-224.10	-1651.5	-1332.5	42.3
100	nodo 3 (10)	7.41	-5.45	-224.12	-1661.3	-1263.3	38.2
101	nodo 3 (11)	2.94	-8.69	-232.76	-2210.4	-404.5	26.0
102	nodo 3 (12)	2.59	-8.72	-232.77	-2220.2	-335.3	21.8
103	nodo 3 (13)	9.56	3.48	-204.08	-122.7	-1680.0	60.6
104	nodo 3 (14)	8.58	1.13	-202.20	-525.8	-1486.0	55.6
105	nodo 3 (15)	4.08	3.43	-192.09	-129.6	-620.3	46.5
106	nodo 3 (16)	3.09	1.07	-190.21	-532.8	-426.3	41.5
107	nodo 3 (17)	8.37	3.38	-204.13	-155.4	-1449.2	46.9
108	nodo 3 (18)	7.38	1.02	-202.25	-558.5	-1255.2	41.9
109	nodo 3 (19)	2.88	3.32	-192.15	-162.3	-389.5	32.8
110	nodo 3 (20)	1.90	0.97	-190.27	-565.5	-195.5	27.8
111	nodo 3 (21)	-7.22	2.27	-190.42	-330.9	1553.1	12.0

112	nodo 3 (22)	-7.58	2.23	-190.44	-340.7	1622.3	7.9
113	nodo 3 (23)	-12.04	-1.00	-199.08	-889.7	2481.1	-4.4
114	nodo 3 (24)	-12.40	-1.04	-199.09	-899.6	2550.3	-8.5
115	nodo 3 (25)	-10.50	-5.58	-184.16	-1674.7	2199.8	-4.8
116	nodo 3 (26)	-10.86	-5.62	-184.17	-1684.5	2269.0	-8.9
117	nodo 3 (27)	-15.33	-8.85	-192.81	-2233.5	3127.8	-21.1
118	nodo 3 (28)	-15.69	-8.89	-192.83	-2243.4	3197.0	-25.2
119	nodo 3 (29)	-6.53	-7.42	-232.93	-1985.6	1413.3	6.1
120	nodo 3 (30)	-7.52	-9.78	-231.05	-2388.7	1607.3	1.0
121	nodo 3 (31)	-12.01	-7.47	-220.94	-1992.5	2473.0	-8.1
122	nodo 3 (32)	-13.00	-9.83	-219.06	-2395.7	2667.0	-13.1
123	nodo 3 (33)	-7.73	-7.53	-232.98	-2018.3	1644.1	-7.6
124	nodo 3 (34)	-8.71	-9.88	-231.10	-2421.5	1838.1	-12.7
125	nodo 3 (35)	-13.21	-7.58	-221.00	-2025.3	2703.8	-21.8
126	nodo 3 (36)	-14.19	-9.93	-219.12	-2428.4	2897.8	-26.8
127	nodo 3 (37)	-1.74	-3.11	-214.85	-1261.3	411.8	17.2
128	nodo 3 (38)	-1.71	-3.16	-217.85	-1274.0	409.6	17.4
129	nodo 3 (39)	-1.72	-3.15	-217.35	-1271.9	409.9	17.4
130	nodo 3 (40)	-2.16	-3.32	-218.90	-1312.4	560.6	17.6
131	nodo 3 (41)	-1.69	-2.98	-208.36	-1219.3	387.5	16.6
132	nodo 3 (42)	-1.74	-2.97	-207.40	-1212.4	409.6	16.5
133	nodo 3 (43)	-1.75	-2.95	-206.20	-1207.3	410.5	16.4
134	nodo 3 (44)	-1.89	-3.02	-207.55	-1224.3	460.1	16.5
135	nodo 3 (45)	-1.75	-2.95	-206.20	-1207.3	410.5	16.4
136	nodo 5 (1)	-2.22	-3.36	-390.28	-1213.0	379.7	31.3
137	nodo 5 (2)	-2.01	-3.34	-376.76	-1188.4	345.1	30.6
138	nodo 5 (3)	-2.00	-3.33	-376.21	-1186.1	341.1	30.5
139	nodo 5 (4)	-1.70	-3.44	-373.10	-1204.8	281.3	30.6
140	nodo 5 (5)	5.81	-5.66	-226.38	-1420.4	-674.4	64.6
141	nodo 5 (6)	5.70	-5.24	-227.33	-1339.5	-395.9	60.5
142	nodo 5 (7)	3.39	-8.03	-243.67	-1827.5	-665.2	48.5
143	nodo 5 (8)	3.28	-7.61	-244.62	-1746.6	-386.8	44.4
144	nodo 5 (9)	4.41	-4.21	-232.24	-1146.8	-487.8	45.7
145	nodo 5 (10)	4.29	-3.79	-233.19	-1065.9	-209.3	41.7
146	nodo 5 (11)	1.99	-6.58	-249.53	-1553.9	-478.6	29.6
147	nodo 5 (12)	1.88	-6.16	-250.48	-1473.0	-200.1	25.5
148	nodo 5 (13)	4.80	-0.43	-226.52	-523.9	-519.6	64.9
149	nodo 5 (14)	4.38	0.00	-228.27	-441.9	-463.6	59.2
150	nodo 5 (15)	1.82	1.67	-243.11	-163.8	-155.3	50.5
151	nodo 5 (16)	1.40	2.10	-244.87	-81.7	-99.3	44.9
152	nodo 5 (17)	4.42	0.98	-229.67	-254.3	408.6	51.3
153	nodo 5 (18)	3.99	1.41	-231.43	-172.2	464.6	45.6
154	nodo 5 (19)	1.44	3.08	-246.26	105.9	772.9	36.9
155	nodo 5 (20)	1.02	3.52	-248.02	188.0	828.9	31.2
156	nodo 5 (21)	-4.12	1.35	-281.69	-219.8	540.0	16.8
157	nodo 5 (22)	-4.23	1.77	-282.63	-138.9	818.5	12.7
158	nodo 5 (23)	-6.53	-1.02	-298.98	-626.8	549.2	0.7
159	nodo 5 (24)	-6.65	-0.60	-299.92	-545.9	827.7	-3.4
160	nodo 5 (25)	-5.52	2.80	-287.55	53.8	726.7	-2.1
161	nodo 5 (26)	-5.63	3.22	-288.49	134.7	1005.2	-6.2
162	nodo 5 (27)	-7.94	0.43	-304.84	-353.2	735.9	-18.2
163	nodo 5 (28)	-8.05	0.85	-305.78	-272.3	1014.3	-22.3
164	nodo 5 (29)	-3.26	-8.33	-284.15	-1880.8	-489.0	11.1
165	nodo 5 (30)	-3.68	-7.89	-285.91	-1798.7	-433.0	5.4
166	nodo 5 (31)	-6.23	-6.22	-300.74	-1520.6	-124.7	-3.2
167	nodo 5 (32)	-6.65	-5.79	-302.50	-1438.5	-68.7	-8.9
168	nodo 5 (33)	-3.64	-6.91	-287.30	-1611.1	439.2	-2.5

169	nodo 5 (34)	-4.06	-6.48	-289.06	-1529.0	495.2	-8.2
170	nodo 5 (35)	-6.62	-4.81	-303.89	-1250.9	803.5	-16.9
171	nodo 5 (36)	-7.04	-4.38	-305.65	-1168.8	859.5	-22.5
172	nodo 5 (37)	-1.43	-2.37	-275.24	-850.8	236.0	21.7
173	nodo 5 (38)	-1.48	-2.41	-277.41	-859.9	252.0	22.1
174	nodo 5 (39)	-1.47	-2.41	-277.05	-858.4	249.4	22.0
175	nodo 5 (40)	-1.27	-2.48	-274.97	-870.9	209.5	22.1
176	nodo 5 (41)	-1.39	-2.27	-269.80	-827.3	217.0	20.9
177	nodo 5 (42)	-1.35	-2.27	-267.31	-823.3	211.7	20.8
178	nodo 5 (43)	-1.33	-2.25	-266.44	-819.6	205.3	20.6
179	nodo 5 (44)	-1.28	-2.29	-266.35	-826.3	196.5	20.8
180	nodo 5 (45)	-1.33	-2.25	-266.44	-819.6	205.3	20.6
181	nodo 6 (1)	-1.19	-2.27	-380.76	-1049.7	86.2	27.1
182	nodo 6 (2)	-0.96	-2.24	-367.59	-1018.0	44.5	26.5
183	nodo 6 (3)	-0.96	-2.23	-366.87	-1016.2	43.5	26.4
184	nodo 6 (4)	-0.71	-2.35	-363.55	-1036.0	-0.7	26.6
185	nodo 6 (5)	7.85	-4.25	-266.69	-1184.2	-1264.9	62.0
186	nodo 6 (6)	7.71	-4.10	-266.62	-1161.5	-1247.1	58.0
187	nodo 6 (7)	4.93	-7.28	-270.76	-1730.9	-842.1	45.3
188	nodo 6 (8)	4.79	-7.13	-270.68	-1708.2	-824.3	41.2
189	nodo 6 (9)	6.21	-3.81	-264.29	-1114.0	-1006.8	44.2
190	nodo 6 (10)	6.06	-3.66	-264.21	-1091.3	-989.0	40.1
191	nodo 6 (11)	3.29	-6.83	-268.35	-1660.7	-584.0	27.5
192	nodo 6 (12)	3.15	-6.68	-268.27	-1638.0	-566.2	23.4
193	nodo 6 (13)	6.69	1.95	-254.44	-67.2	-1064.4	63.1
194	nodo 6 (14)	6.20	2.08	-253.72	-46.2	-986.9	57.8
195	nodo 6 (15)	3.12	4.25	-248.65	345.2	-529.3	48.6
196	nodo 6 (16)	2.63	4.38	-247.93	366.2	-451.8	43.2
197	nodo 6 (17)	6.21	2.45	-254.19	8.6	-1004.9	49.6
198	nodo 6 (18)	5.72	2.58	-253.47	29.6	-927.5	44.2
199	nodo 6 (19)	2.65	4.75	-248.40	421.0	-469.8	35.0
200	nodo 6 (20)	2.15	4.88	-247.68	442.0	-392.3	29.7
201	nodo 6 (21)	-4.03	3.43	-247.39	190.4	518.8	13.6
202	nodo 6 (22)	-4.17	3.58	-247.32	213.2	536.6	9.5
203	nodo 6 (23)	-6.95	0.40	-251.46	-356.3	941.6	-3.1
204	nodo 6 (24)	-7.09	0.55	-251.38	-333.5	959.4	-7.2
205	nodo 6 (25)	-5.68	3.87	-244.98	260.7	776.9	-4.2
206	nodo 6 (26)	-5.82	4.02	-244.91	283.4	794.8	-8.3
207	nodo 6 (27)	-8.59	0.84	-249.05	-286.0	1199.7	-21.0
208	nodo 6 (28)	-8.74	0.99	-248.97	-263.3	1217.6	-25.1
209	nodo 6 (29)	-3.04	-8.14	-267.99	-1889.6	345.0	7.3
210	nodo 6 (30)	-3.53	-8.01	-267.27	-1868.5	422.4	2.0
211	nodo 6 (31)	-6.60	-5.84	-262.20	-1477.2	880.1	-7.2
212	nodo 6 (32)	-7.10	-5.70	-261.48	-1456.1	957.5	-12.6
213	nodo 6 (33)	-3.51	-7.64	-267.74	-1813.8	404.5	-6.2
214	nodo 6 (34)	-4.01	-7.51	-267.02	-1792.7	481.9	-11.6
215	nodo 6 (35)	-7.08	-5.34	-261.95	-1401.4	939.6	-20.8
216	nodo 6 (36)	-7.57	-5.20	-261.23	-1380.3	1017.0	-26.1
217	nodo 6 (37)	-0.70	-1.59	-267.54	-728.7	25.8	18.9
218	nodo 6 (38)	-0.70	-1.61	-270.44	-735.8	30.1	19.2
219	nodo 6 (39)	-0.70	-1.61	-269.95	-734.6	29.4	19.1
220	nodo 6 (40)	-0.54	-1.69	-267.74	-747.8	-0.0	19.3
221	nodo 6 (41)	-0.70	-1.51	-261.06	-706.7	20.4	18.2
222	nodo 6 (42)	-0.65	-1.50	-258.72	-701.1	12.5	18.1
223	nodo 6 (43)	-0.65	-1.49	-257.56	-698.3	10.7	18.0
224	nodo 6 (44)	-0.60	-1.53	-257.63	-704.6	2.1	18.1
225	nodo 6 (45)	-0.65	-1.49	-257.56	-698.3	10.7	18.0

226	nodo 7 (1)	-3.15	0.19	-374.44	-430.3	672.5	24.4
227	nodo 7 (2)	-3.58	0.13	-365.73	-422.5	828.9	23.9
228	nodo 7 (3)	-3.58	0.14	-364.89	-420.9	827.7	23.8
229	nodo 7 (4)	-4.46	-0.01	-368.03	-452.0	1115.3	24.0
230	nodo 7 (5)	8.66	6.56	-286.66	918.1	-1501.1	59.9
231	nodo 7 (6)	8.42	6.52	-286.32	904.6	-1453.9	55.8
232	nodo 7 (7)	4.28	2.75	-277.69	200.1	-646.8	43.2
233	nodo 7 (8)	4.04	2.71	-277.35	186.5	-599.5	39.1
234	nodo 7 (9)	6.37	-2.51	-282.37	-786.8	-1051.4	42.5
235	nodo 7 (10)	6.13	-2.55	-282.03	-800.4	-1004.2	38.4
236	nodo 7 (11)	1.99	-6.31	-273.40	-1504.9	-197.1	25.9
237	nodo 7 (12)	1.75	-6.36	-273.06	-1518.4	-149.8	21.7
238	nodo 7 (13)	7.27	7.81	-282.94	1162.3	-1231.3	61.3
239	nodo 7 (14)	6.58	5.09	-281.65	650.9	-1096.4	56.1
240	nodo 7 (15)	2.14	7.75	-271.72	1151.5	-233.5	46.9
241	nodo 7 (16)	1.46	5.03	-270.43	640.0	-98.5	41.6
242	nodo 7 (17)	6.47	7.66	-281.80	1117.1	-1073.9	47.5
243	nodo 7 (18)	5.78	4.94	-280.51	605.6	-939.0	42.3
244	nodo 7 (19)	1.35	7.60	-270.58	1106.3	-76.0	33.1
245	nodo 7 (20)	0.66	4.88	-269.30	594.8	58.9	27.8
246	nodo 7 (21)	-8.42	6.35	-249.27	882.0	1825.2	11.8
247	nodo 7 (22)	-8.66	6.31	-248.93	868.5	1872.4	7.7
248	nodo 7 (23)	-12.79	2.54	-240.30	164.0	2679.5	-4.9
249	nodo 7 (24)	-13.03	2.50	-239.96	150.4	2726.8	-9.0
250	nodo 7 (25)	-10.71	-2.72	-244.98	-822.9	2274.9	-5.6
251	nodo 7 (26)	-10.95	-2.76	-244.64	-836.5	2322.1	-9.7
252	nodo 7 (27)	-15.08	-6.52	-236.01	-1541.0	3129.2	-22.2
253	nodo 7 (28)	-15.32	-6.57	-235.67	-1554.5	3176.5	-26.4
254	nodo 7 (29)	-7.32	-4.88	-253.03	-1231.2	1616.5	5.7
255	nodo 7 (30)	-8.01	-7.60	-251.74	-1742.7	1751.4	0.5
256	nodo 7 (31)	-12.45	-4.95	-241.81	-1242.0	2614.4	-8.7
257	nodo 7 (32)	-13.13	-7.67	-240.53	-1753.5	2749.3	-14.0
258	nodo 7 (33)	-8.12	-5.03	-251.89	-1276.4	1773.9	-8.1
259	nodo 7 (34)	-8.81	-7.75	-250.61	-1787.9	1908.8	-13.3
260	nodo 7 (35)	-13.24	-5.10	-240.68	-1287.2	2771.8	-22.5
261	nodo 7 (36)	-13.93	-7.82	-239.39	-1798.7	2906.7	-27.8
262	nodo 7 (37)	-2.58	0.10	-265.12	-305.7	587.1	17.0
263	nodo 7 (38)	-2.58	0.08	-268.47	-312.3	591.9	17.3
264	nodo 7 (39)	-2.58	0.08	-267.91	-311.2	591.1	17.3
265	nodo 7 (40)	-3.17	-0.02	-270.01	-331.9	782.8	17.4
266	nodo 7 (41)	-2.46	0.16	-257.40	-286.8	546.8	16.5
267	nodo 7 (42)	-2.55	0.15	-255.99	-285.9	578.6	16.4
268	nodo 7 (43)	-2.55	0.16	-254.65	-283.2	576.7	16.3
269	nodo 7 (44)	-2.74	0.12	-256.28	-292.0	641.9	16.4
270	nodo 7 (45)	-2.55	0.16	-254.65	-283.2	576.7	16.3
271	nodo 9 (1)	-3.14	-2.32	-447.02	-935.2	543.8	24.1
272	nodo 9 (2)	-2.92	-2.34	-431.56	-923.4	509.5	23.6
273	nodo 9 (3)	-2.91	-2.34	-430.99	-922.0	505.1	23.5
274	nodo 9 (4)	-2.62	-2.47	-427.59	-945.0	448.2	23.8
275	nodo 9 (5)	3.93	-4.93	-263.55	-1224.8	-163.1	59.5
276	nodo 9 (6)	1.99	-4.50	-264.08	-1142.9	-160.2	55.4
277	nodo 9 (7)	3.89	-7.30	-279.71	-1633.1	-366.3	43.4
278	nodo 9 (8)	1.96	-6.87	-280.24	-1551.2	-363.4	39.3
279	nodo 9 (9)	3.11	-3.50	-267.51	-961.4	-42.6	41.1
280	nodo 9 (10)	1.18	-3.08	-268.04	-879.5	-39.7	37.0
281	nodo 9 (11)	3.07	-5.87	-283.67	-1369.7	-245.8	25.0
282	nodo 9 (12)	1.14	-5.45	-284.20	-1287.8	-242.9	20.9

283	nodo 9 (13)	2.96	0.26	-266.95	-339.0	449.1	60.0
284	nodo 9 (14)	2.71	0.68	-268.14	-260.0	485.2	54.5
285	nodo 9 (15)	0.40	2.33	-285.37	14.9	737.3	45.8
286	nodo 9 (16)	0.15	2.76	-286.56	93.9	773.5	40.3
287	nodo 9 (17)	-3.49	1.68	-268.71	-66.1	458.7	46.3
288	nodo 9 (18)	-3.73	2.11	-269.89	13.0	494.9	40.8
289	nodo 9 (19)	-6.04	3.75	-287.12	287.8	747.0	32.1
290	nodo 9 (20)	-6.29	4.18	-288.31	366.9	783.1	26.6
291	nodo 9 (21)	-4.60	1.99	-324.94	-45.2	797.8	12.1
292	nodo 9 (22)	-6.54	2.41	-325.46	36.7	800.7	8.0
293	nodo 9 (23)	-4.64	-0.38	-341.10	-453.4	594.6	-4.0
294	nodo 9 (24)	-6.58	0.04	-341.62	-371.5	597.5	-8.1
295	nodo 9 (25)	-5.42	3.41	-328.89	218.3	918.3	-6.3
296	nodo 9 (26)	-7.35	3.84	-329.42	300.2	921.2	-10.4
297	nodo 9 (27)	-5.46	1.04	-345.05	-190.0	715.1	-22.4
298	nodo 9 (28)	-7.39	1.47	-345.58	-108.1	718.0	-26.5
299	nodo 9 (29)	2.82	-7.64	-320.82	-1699.8	-228.2	6.4
300	nodo 9 (30)	2.58	-7.22	-322.01	-1620.8	-192.0	0.9
301	nodo 9 (31)	0.27	-5.57	-339.24	-1345.9	60.1	-7.8
302	nodo 9 (32)	0.02	-5.14	-340.42	-1266.9	96.2	-13.3
303	nodo 9 (33)	-3.62	-6.22	-322.58	-1426.8	-218.5	-7.3
304	nodo 9 (34)	-3.86	-5.79	-323.76	-1347.8	-182.4	-12.8
305	nodo 9 (35)	-6.18	-4.15	-340.99	-1072.9	69.7	-21.5
306	nodo 9 (36)	-6.42	-3.72	-342.18	-993.9	105.9	-27.0
307	nodo 9 (37)	-2.05	-1.65	-314.75	-660.0	342.6	16.7
308	nodo 9 (38)	-2.10	-1.68	-317.01	-665.5	360.2	17.0
309	nodo 9 (39)	-2.09	-1.68	-316.64	-664.6	357.3	17.0
310	nodo 9 (40)	-1.90	-1.77	-314.37	-680.0	319.4	17.1
311	nodo 9 (41)	-1.98	-1.58	-308.85	-643.9	320.6	16.1
312	nodo 9 (42)	-1.94	-1.59	-305.98	-642.1	315.5	16.1
313	nodo 9 (43)	-1.92	-1.58	-305.08	-639.9	308.4	16.0
314	nodo 9 (44)	-1.88	-1.62	-304.95	-646.5	300.7	16.1
315	nodo 9 (45)	-1.92	-1.58	-305.08	-639.9	308.4	16.0
316	nodo 10 (1)	-0.89	0.43	-429.08	-255.4	-105.0	23.3
317	nodo 10 (2)	-0.65	0.30	-414.21	-269.2	-144.9	22.8
318	nodo 10 (3)	-0.65	0.31	-413.46	-268.7	-146.3	22.7
319	nodo 10 (4)	-0.44	0.18	-409.99	-291.7	-183.8	23.0
320	nodo 10 (5)	6.62	-2.53	-297.71	-681.2	-1135.0	59.4
321	nodo 10 (6)	6.55	-2.36	-297.68	-654.1	-795.6	55.3
322	nodo 10 (7)	4.18	-5.78	-294.77	-1295.2	-1127.2	42.7
323	nodo 10 (8)	4.12	-5.61	-294.74	-1268.1	-787.8	38.6
324	nodo 10 (9)	5.75	-2.05	-297.63	794.0	-999.8	41.8
325	nodo 10 (10)	5.69	-1.89	-297.60	821.1	-660.5	37.7
326	nodo 10 (11)	3.32	-5.30	-294.68	179.9	-992.0	25.1
327	nodo 10 (12)	3.25	-5.14	-294.65	207.1	-652.7	21.0
328	nodo 10 (13)	5.61	4.03	-297.11	548.2	-975.2	60.7
329	nodo 10 (14)	5.35	4.18	-297.08	990.8	-934.6	55.4
330	nodo 10 (15)	2.51	6.43	-293.64	572.6	-531.6	46.2
331	nodo 10 (16)	2.25	6.57	-293.62	1015.1	-491.0	40.9
332	nodo 10 (17)	5.40	4.58	-297.01	638.7	156.0	47.0
333	nodo 10 (18)	5.13	4.73	-296.98	1081.2	196.5	41.7
334	nodo 10 (19)	2.29	6.98	-293.54	663.0	599.6	32.5
335	nodo 10 (20)	2.03	7.12	-293.52	1105.6	640.1	27.2
336	nodo 10 (21)	-3.73	5.46	-286.16	-600.1	343.7	11.1
337	nodo 10 (22)	-3.79	5.63	-286.13	-572.9	683.0	7.0
338	nodo 10 (23)	-6.16	2.21	-283.22	-1214.1	351.5	-5.7
339	nodo 10 (24)	-6.23	2.38	-283.19	-1187.0	690.8	-9.8

340	nodo 10 (25)	-4.59	5.94	-286.08	875.1	478.8	-6.5
341	nodo 10 (26)	-4.66	6.10	-286.05	902.2	818.2	-10.6
342	nodo 10 (27)	-7.03	2.69	-283.13	261.0	486.7	-23.3
343	nodo 10 (28)	-7.09	2.85	-283.10	288.2	826.0	-27.4
344	nodo 10 (29)	-2.51	-6.80	-287.30	-1498.6	-949.1	4.8
345	nodo 10 (30)	-2.77	-6.66	-287.27	-1056.0	-908.5	-0.5
346	nodo 10 (31)	-5.61	-4.40	-283.84	-1474.2	-505.5	-9.7
347	nodo 10 (32)	-5.87	-4.26	-283.81	-1031.7	-465.0	-15.0
348	nodo 10 (33)	-2.72	-6.25	-287.20	-1408.2	182.0	-8.9
349	nodo 10 (34)	-2.98	-6.11	-287.17	-965.6	222.6	-14.2
350	nodo 10 (35)	-5.83	-3.85	-283.73	-1383.8	625.6	-23.4
351	nodo 10 (36)	-6.09	-3.71	-283.71	-941.3	666.2	-28.7
352	nodo 10 (37)	-0.49	0.29	-300.95	-177.2	-109.1	16.2
353	nodo 10 (38)	-0.50	0.28	-303.91	-179.1	-103.3	16.5
354	nodo 10 (39)	-0.49	0.28	-303.41	-178.8	-104.3	16.5
355	nodo 10 (40)	-0.35	0.19	-301.10	-194.1	-129.3	16.6
356	nodo 10 (41)	-0.47	0.31	-294.07	-171.7	-117.9	15.7
357	nodo 10 (42)	-0.42	0.28	-291.39	-174.7	-125.3	15.6
358	nodo 10 (43)	-0.42	0.29	-290.21	-173.9	-127.6	15.5
359	nodo 10 (44)	-0.37	0.26	-290.26	-179.5	-134.3	15.6
360	nodo 10 (45)	-0.42	0.29	-290.21	-173.9	-127.6	15.5
361	nodo 11 (1)	0.27	5.96	-388.38	1286.2	-447.0	21.5
362	nodo 11 (2)	-0.21	5.78	-378.58	1254.8	-272.0	21.1
363	nodo 11 (3)	-0.21	5.77	-377.75	1253.4	-273.2	21.0
364	nodo 11 (4)	-0.96	5.80	-380.13	1275.7	-23.8	21.3
365	nodo 11 (5)	9.39	11.01	-289.63	2242.7	-1957.9	58.5
366	nodo 11 (6)	9.26	10.96	-289.52	2228.2	-1932.8	54.3
367	nodo 11 (7)	5.54	7.00	-282.39	1463.2	-1199.2	41.5
368	nodo 11 (8)	5.42	6.95	-282.28	1448.7	-1174.1	37.3
369	nodo 11 (9)	8.25	10.74	-288.06	2186.2	-1744.1	41.3
370	nodo 11 (10)	8.13	10.69	-287.96	2171.7	-1719.0	37.1
371	nodo 11 (11)	4.41	6.72	-280.83	1406.7	-985.4	24.2
372	nodo 11 (12)	4.29	6.68	-280.72	1392.2	-960.3	20.1
373	nodo 11 (13)	8.24	12.37	-286.66	2517.4	-1756.3	60.1
374	nodo 11 (14)	7.90	12.29	-286.19	2500.4	-1692.1	55.0
375	nodo 11 (15)	3.63	9.55	-277.23	1975.8	-863.8	45.5
376	nodo 11 (16)	3.29	9.47	-276.76	1958.8	-799.6	40.3
377	nodo 11 (17)	7.83	12.21	-286.29	2469.0	-1672.6	46.2
378	nodo 11 (18)	7.49	12.13	-285.82	2452.1	-1608.5	41.0
379	nodo 11 (19)	3.22	9.39	-276.86	1927.4	-780.1	31.6
380	nodo 11 (20)	2.88	9.31	-276.39	1910.5	-716.0	26.4
381	nodo 11 (21)	-5.98	1.61	-258.20	437.4	1017.1	9.7
382	nodo 11 (22)	-6.10	1.57	-258.09	422.9	1042.2	5.6
383	nodo 11 (23)	-9.82	-2.40	-250.96	-342.0	1775.8	-7.3
384	nodo 11 (24)	-9.94	-2.45	-250.85	-356.5	1800.9	-11.5
385	nodo 11 (25)	-7.11	1.34	-256.64	380.9	1230.8	-7.5
386	nodo 11 (26)	-7.23	1.29	-256.53	366.4	1255.9	-11.7
387	nodo 11 (27)	-10.95	-2.67	-249.40	-398.5	1989.5	-24.5
388	nodo 11 (28)	-11.08	-2.72	-249.29	-413.0	2014.6	-28.7
389	nodo 11 (29)	-4.57	-1.02	-262.52	-80.8	772.8	3.4
390	nodo 11 (30)	-4.91	-1.10	-262.05	-97.8	836.9	-1.8
391	nodo 11 (31)	-9.18	-3.84	-253.10	-622.4	1665.3	-11.3
392	nodo 11 (32)	-9.52	-3.92	-252.63	-639.4	1729.4	-16.4
393	nodo 11 (33)	-4.98	-1.18	-262.16	-129.2	856.4	-10.6
394	nodo 11 (34)	-5.32	-1.26	-261.69	-146.1	920.5	-15.7
395	nodo 11 (35)	-9.59	-4.00	-252.73	-670.7	1748.9	-25.2
396	nodo 11 (36)	-9.93	-4.08	-252.26	-687.7	1813.0	-30.3

397	nodo 11 (37)	-0.16	4.21	-274.36	916.8	-204.3	15.1
398	nodo 11 (38)	-0.16	4.23	-277.70	922.4	-199.6	15.3
399	nodo 11 (39)	-0.16	4.23	-277.14	921.4	-200.4	15.2
400	nodo 11 (40)	-0.66	4.25	-278.72	936.3	-34.1	15.4
401	nodo 11 (41)	-0.07	4.14	-266.60	896.7	-232.1	14.6
402	nodo 11 (42)	-0.17	4.11	-264.97	891.0	-196.6	14.5
403	nodo 11 (43)	-0.17	4.10	-263.64	888.8	-198.5	14.4
404	nodo 11 (44)	-0.34	4.11	-265.09	895.3	-141.8	14.5
405	nodo 11 (45)	-0.17	4.10	-263.64	888.8	-198.5	14.4
406	nodo 14 (1)	3.29	3.89	-380.20	665.5	-1401.0	19.6
407	nodo 14 (2)	2.81	3.86	-370.16	680.2	-1228.6	19.2
408	nodo 14 (3)	2.81	3.85	-369.36	678.8	-1228.7	19.2
409	nodo 14 (4)	2.24	4.00	-370.79	735.3	-1034.6	19.5
410	nodo 14 (5)	10.43	9.85	-272.78	1885.3	-2417.6	57.2
411	nodo 14 (6)	10.38	9.81	-272.74	1873.0	-2406.8	53.0
412	nodo 14 (7)	7.05	5.77	-278.22	1092.7	-1758.5	39.9
413	nodo 14 (8)	7.00	5.73	-278.17	1080.4	-1747.7	35.7
414	nodo 14 (9)	9.98	9.58	-272.85	1828.5	-2333.8	40.7
415	nodo 14 (10)	9.93	9.53	-272.80	1816.2	-2323.0	36.5
416	nodo 14 (11)	6.61	5.50	-278.28	1036.0	-1674.7	23.4
417	nodo 14 (12)	6.56	5.45	-278.23	1023.6	-1663.9	19.2
418	nodo 14 (13)	9.33	11.22	-257.49	2160.4	-2226.1	59.4
419	nodo 14 (14)	9.20	11.14	-257.51	2143.4	-2200.9	54.4
420	nodo 14 (15)	5.10	8.35	-249.75	1608.3	-1417.2	44.7
421	nodo 14 (16)	4.97	8.27	-249.77	1591.3	-1392.0	39.7
422	nodo 14 (17)	9.16	11.07	-257.34	2119.3	-2190.1	45.4
423	nodo 14 (18)	9.03	10.99	-257.36	2102.2	-2165.0	40.4
424	nodo 14 (19)	4.94	8.20	-249.60	1567.2	-1381.2	30.7
425	nodo 14 (20)	4.80	8.12	-249.62	1550.1	-1356.1	25.7
426	nodo 14 (21)	-3.67	0.30	-246.99	45.0	278.7	8.2
427	nodo 14 (22)	-3.72	0.25	-246.94	32.6	289.5	4.0
428	nodo 14 (23)	-7.04	-3.78	-252.42	-747.6	937.8	-9.1
429	nodo 14 (24)	-7.09	-3.82	-252.37	-759.9	948.6	-13.3
430	nodo 14 (25)	-4.11	0.02	-247.05	-11.8	362.5	-8.3
431	nodo 14 (26)	-4.16	-0.02	-247.00	-24.1	373.3	-12.5
432	nodo 14 (27)	-7.48	-4.05	-252.48	-804.4	1021.6	-25.6
433	nodo 14 (28)	-7.53	-4.10	-252.44	-816.7	1032.4	-29.8
434	nodo 14 (29)	-1.91	-2.37	-275.60	-481.5	-29.1	1.7
435	nodo 14 (30)	-2.04	-2.45	-275.62	-498.6	-4.0	-3.2
436	nodo 14 (31)	-6.14	-5.24	-267.86	-1033.6	779.8	-13.0
437	nodo 14 (32)	-6.27	-5.32	-267.88	-1050.7	804.9	-17.9
438	nodo 14 (33)	-2.08	-2.52	-275.45	-522.7	6.8	-12.3
439	nodo 14 (34)	-2.21	-2.60	-275.47	-539.7	32.0	-17.3
440	nodo 14 (35)	-6.30	-5.39	-267.71	-1074.8	815.7	-27.0
441	nodo 14 (36)	-6.44	-5.47	-267.73	-1091.8	840.9	-32.0
442	nodo 14 (37)	2.02	2.81	-268.12	495.2	-890.8	13.8
443	nodo 14 (38)	2.02	2.83	-271.32	501.0	-890.4	14.0
444	nodo 14 (39)	2.02	2.82	-270.79	500.0	-890.5	13.9
445	nodo 14 (40)	1.64	2.92	-271.74	537.7	-761.1	14.1
446	nodo 14 (41)	2.04	2.74	-260.75	476.4	-899.9	13.4
447	nodo 14 (42)	1.95	2.74	-259.06	479.9	-865.4	13.3
448	nodo 14 (43)	1.95	2.73	-257.79	477.6	-865.5	13.2
449	nodo 14 (44)	1.82	2.77	-258.99	491.8	-822.3	13.3
450	nodo 14 (45)	1.95	2.73	-257.79	477.6	-865.5	13.2
451	nodo 16 (1)	0.20	1.02	-454.77	-99.5	-508.3	20.2
452	nodo 16 (2)	0.39	0.88	-439.14	-115.9	-531.6	19.8
453	nodo 16 (3)	0.39	0.89	-438.40	-115.9	-532.8	19.8

454	nodo 16 (4)	0.59	0.76	-434.85	-138.4	-565.0	20.1
455	nodo 16 (5)	6.42	6.59	-310.08	1060.9	-1282.8	57.3
456	nodo 16 (6)	6.41	6.76	-310.13	1091.1	-1279.2	53.1
457	nodo 16 (7)	4.23	3.06	-308.87	368.5	-961.2	40.3
458	nodo 16 (8)	4.22	3.23	-308.92	398.8	-957.6	36.1
459	nodo 16 (9)	6.26	6.12	-310.39	981.1	-1253.4	40.5
460	nodo 16 (10)	6.24	6.29	-310.45	1011.3	-1249.8	36.3
461	nodo 16 (11)	4.07	2.59	-309.18	288.8	-931.8	23.5
462	nodo 16 (12)	4.05	2.76	-309.23	319.0	-928.2	19.3
463	nodo 16 (13)	5.62	7.44	-310.28	1250.0	-1177.3	59.2
464	nodo 16 (14)	5.58	7.30	-310.37	1226.1	-1168.5	54.1
465	nodo 16 (15)	2.78	4.95	-309.19	774.0	-770.5	44.6
466	nodo 16 (16)	2.73	4.81	-309.28	750.1	-761.7	39.6
467	nodo 16 (17)	5.57	8.00	-310.45	1350.7	-1165.3	45.3
468	nodo 16 (18)	5.52	7.86	-310.54	1326.8	-1156.5	40.2
469	nodo 16 (19)	2.73	5.50	-309.36	874.7	-758.5	30.7
470	nodo 16 (20)	2.68	5.36	-309.46	850.8	-749.6	25.7
471	nodo 16 (21)	-3.06	-1.72	-306.46	-525.9	73.2	8.8
472	nodo 16 (22)	-3.07	-1.56	-306.51	-495.7	76.8	4.7
473	nodo 16 (23)	-5.25	-5.25	-305.24	-1218.2	394.8	-8.2
474	nodo 16 (24)	-5.26	-5.08	-305.30	-1188.0	398.4	-12.3
475	nodo 16 (25)	-3.22	-2.19	-306.77	-605.7	102.6	-8.0
476	nodo 16 (26)	-3.23	-2.02	-306.82	-575.5	106.2	-12.1
477	nodo 16 (27)	-5.41	-5.72	-305.55	-1298.0	424.2	-25.0
478	nodo 16 (28)	-5.43	-5.55	-305.61	-1267.8	427.8	-29.1
479	nodo 16 (29)	-1.68	-4.32	-306.23	-1057.7	-105.3	2.5
480	nodo 16 (30)	-1.73	-4.46	-306.32	-1081.6	-96.5	-2.6
481	nodo 16 (31)	-4.52	-6.82	-305.14	-1533.7	301.5	-12.0
482	nodo 16 (32)	-4.57	-6.96	-305.24	-1557.7	310.3	-17.1
483	nodo 16 (33)	-1.74	-3.77	-306.41	-957.0	-93.3	-11.4
484	nodo 16 (34)	-1.78	-3.91	-306.50	-980.9	-84.5	-16.5
485	nodo 16 (35)	-4.58	-6.26	-305.32	-1433.0	313.5	-26.0
486	nodo 16 (36)	-4.63	-6.40	-305.41	-1456.9	322.4	-31.0
487	nodo 16 (37)	0.29	0.65	-318.73	-81.9	-393.0	14.2
488	nodo 16 (38)	0.28	0.65	-321.69	-81.9	-388.3	14.4
489	nodo 16 (39)	0.28	0.65	-321.19	-81.9	-389.1	14.4
490	nodo 16 (40)	0.41	0.57	-318.83	-96.9	-410.6	14.6
491	nodo 16 (41)	0.30	0.66	-311.73	-80.1	-398.0	13.7
492	nodo 16 (42)	0.34	0.64	-308.90	-83.4	-402.2	13.7
493	nodo 16 (43)	0.34	0.64	-307.71	-83.4	-404.1	13.6
494	nodo 16 (44)	0.38	0.61	-307.75	-88.4	-409.9	13.7
495	nodo 16 (45)	0.34	0.64	-307.71	-83.4	-404.1	13.6
496	nodo 18 (1)	-3.18	-0.55	-500.59	-471.6	451.1	18.3
497	nodo 18 (2)	-2.98	-0.62	-483.37	-471.4	424.8	18.0
498	nodo 18 (3)	-2.96	-0.62	-482.79	-471.6	420.2	17.9
499	nodo 18 (4)	-2.70	-0.78	-479.17	-500.0	367.8	18.3
500	nodo 18 (5)	1.12	-3.48	-315.14	-850.6	-98.5	55.8
501	nodo 18 (6)	1.11	-3.07	-315.19	-772.6	-96.4	51.6
502	nodo 18 (7)	2.77	-5.79	-301.08	-1237.3	-276.7	39.3
503	nodo 18 (8)	2.76	-5.38	-301.13	-1159.3	-274.6	35.1
504	nodo 18 (9)	1.34	-2.24	-315.62	217.3	-146.2	38.3
505	nodo 18 (10)	1.32	-1.84	-315.67	295.3	-144.0	34.1
506	nodo 18 (11)	2.98	-4.55	-301.56	-169.5	-324.4	21.8
507	nodo 18 (12)	2.97	-4.15	-301.61	-91.5	-322.2	17.6
508	nodo 18 (13)	-3.39	1.45	-354.52	-41.1	389.9	57.1
509	nodo 18 (14)	-3.32	1.82	-354.66	279.3	375.6	51.8
510	nodo 18 (15)	-5.68	3.39	-374.12	23.6	646.8	42.7

511	nodo 18 (16)	-5.61	3.76	-374.27	343.9	632.5	37.5
512	nodo 18 (17)	-3.43	2.80	-354.69	218.9	397.0	43.1
513	nodo 18 (18)	-3.36	3.17	-354.83	539.2	382.7	37.9
514	nodo 18 (19)	-5.72	4.74	-374.29	283.5	653.9	28.8
515	nodo 18 (20)	-5.66	5.11	-374.44	603.9	639.6	23.5
516	nodo 18 (21)	-6.52	2.99	-380.49	-635.0	757.7	7.9
517	nodo 18 (22)	-6.53	3.40	-380.54	-557.0	759.8	3.7
518	nodo 18 (23)	-4.87	0.68	-366.43	-1021.8	579.5	-8.6
519	nodo 18 (24)	-4.89	1.09	-366.48	-943.8	581.7	-12.8
520	nodo 18 (25)	-6.31	4.23	-380.97	432.9	710.0	-9.6
521	nodo 18 (26)	-6.32	4.64	-381.02	510.8	712.2	-13.8
522	nodo 18 (27)	-4.66	1.92	-366.91	46.1	531.8	-26.1
523	nodo 18 (28)	-4.67	2.32	-366.96	124.1	534.0	-30.3
524	nodo 18 (29)	2.11	-6.26	-307.66	-1330.4	-204.1	2.0
525	nodo 18 (30)	2.17	-5.89	-307.81	-1010.0	-218.4	-3.3
526	nodo 18 (31)	-0.19	-4.32	-327.27	-1265.7	52.8	-12.4
527	nodo 18 (32)	-0.12	-3.95	-327.41	-945.3	38.5	-17.6
528	nodo 18 (33)	2.06	-4.91	-307.83	-1070.4	-197.0	-12.0
529	nodo 18 (34)	2.13	-4.54	-307.98	-750.1	-211.3	-17.2
530	nodo 18 (35)	-0.23	-2.97	-327.44	-1005.7	59.9	-26.3
531	nodo 18 (36)	-0.16	-2.60	-327.58	-685.4	45.6	-31.6
532	nodo 18 (37)	-2.07	-0.45	-352.12	-343.8	277.4	12.8
533	nodo 18 (38)	-2.13	-0.46	-354.43	-343.1	296.1	13.0
534	nodo 18 (39)	-2.12	-0.45	-354.04	-343.2	293.0	13.0
535	nodo 18 (40)	-1.95	-0.56	-351.63	-362.1	258.1	13.2
536	nodo 18 (41)	-2.00	-0.42	-345.84	-338.6	254.4	12.4
537	nodo 18 (42)	-1.96	-0.44	-342.62	-338.5	251.0	12.3
538	nodo 18 (43)	-1.94	-0.44	-341.70	-338.8	243.5	12.3
539	nodo 18 (44)	-1.90	-0.47	-341.54	-344.9	237.1	12.4
540	nodo 18 (45)	-1.94	-0.44	-341.70	-338.8	243.5	12.3
541	nodo 19 (1)	3.71	0.98	-373.29	-221.3	-1575.4	18.2
542	nodo 19 (2)	3.30	1.15	-363.31	-144.9	-1421.1	17.9
543	nodo 19 (3)	3.30	1.15	-362.54	-145.9	-1420.4	17.8
544	nodo 19 (4)	2.84	1.44	-363.74	-47.4	-1259.2	18.2
545	nodo 19 (5)	9.88	8.36	-265.74	1400.1	-2384.9	56.3
546	nodo 19 (6)	9.88	8.28	-265.67	1381.0	-2384.0	52.0
547	nodo 19 (7)	6.89	4.10	-270.22	570.2	-1807.2	38.7
548	nodo 19 (8)	6.90	4.01	-270.16	551.1	-1806.3	34.4
549	nodo 19 (9)	10.01	8.08	-266.88	1340.9	-2403.3	40.5
550	nodo 19 (10)	10.01	8.00	-266.81	1321.9	-2402.4	36.3
551	nodo 19 (11)	7.03	3.82	-271.36	511.0	-1825.6	22.9
552	nodo 19 (12)	7.03	3.74	-271.30	492.0	-1824.7	18.7
553	nodo 19 (13)	8.80	9.86	-253.31	1697.3	-2191.4	59.0
554	nodo 19 (14)	8.84	9.78	-253.66	1679.6	-2197.0	54.3
555	nodo 19 (15)	4.85	6.88	-246.74	1120.8	-1441.5	44.3
556	nodo 19 (16)	4.89	6.79	-247.08	1103.1	-1447.0	39.5
557	nodo 19 (17)	8.80	9.57	-253.09	1633.7	-2188.5	44.8
558	nodo 19 (18)	8.84	9.49	-253.43	1616.0	-2194.0	40.1
559	nodo 19 (19)	4.86	6.59	-246.52	1057.3	-1438.6	30.0
560	nodo 19 (20)	4.90	6.51	-246.86	1039.5	-1444.1	25.3
561	nodo 19 (21)	-3.27	-1.58	-243.83	-521.5	114.9	7.0
562	nodo 19 (22)	-3.27	-1.66	-243.76	-540.5	115.8	2.8
563	nodo 19 (23)	-6.26	-5.84	-248.32	-1351.4	692.6	-10.5
564	nodo 19 (24)	-6.26	-5.93	-248.25	-1370.4	693.5	-14.8
565	nodo 19 (25)	-3.14	-1.86	-244.97	-580.6	96.5	-8.7
566	nodo 19 (26)	-3.14	-1.94	-244.90	-599.7	97.4	-13.0
567	nodo 19 (27)	-6.13	-6.12	-249.45	-1410.5	674.3	-26.3

568	nodo 19 (28)	-6.12	-6.21	-249.39	-1429.6	675.1	-30.6
569	nodo 19 (29)	-1.14	-4.35	-268.27	-1069.0	-265.7	0.4
570	nodo 19 (30)	-1.10	-4.43	-268.61	-1086.8	-271.2	-4.3
571	nodo 19 (31)	-5.09	-7.33	-261.69	-1645.5	484.3	-14.3
572	nodo 19 (32)	-5.05	-7.42	-262.03	-1663.2	478.8	-19.1
573	nodo 19 (33)	-1.14	-4.64	-268.04	-1132.6	-262.8	-13.8
574	nodo 19 (34)	-1.10	-4.72	-268.38	-1150.3	-268.3	-18.5
575	nodo 19 (35)	-5.09	-7.62	-261.47	-1709.0	487.2	-28.6
576	nodo 19 (36)	-5.05	-7.70	-261.81	-1726.8	481.7	-33.3
577	nodo 19 (37)	2.36	0.83	-263.12	-107.8	-1026.2	12.9
578	nodo 19 (38)	2.37	0.84	-266.21	-103.7	-1029.1	13.0
579	nodo 19 (39)	2.37	0.84	-265.69	-104.4	-1028.6	13.0
580	nodo 19 (40)	2.06	1.03	-266.49	-38.7	-921.2	13.2
581	nodo 19 (41)	2.36	0.78	-255.98	-120.9	-1026.6	12.5
582	nodo 19 (42)	2.28	0.82	-254.30	-105.2	-996.1	12.5
583	nodo 19 (43)	2.27	0.81	-253.06	-106.8	-994.9	12.4
584	nodo 19 (44)	2.17	0.88	-254.19	-83.8	-959.9	12.5
585	nodo 19 (45)	2.27	0.81	-253.06	-106.8	-994.9	12.4
586	nodo 23 (1)	0.56	0.45	-466.45	-306.1	-676.4	17.9
587	nodo 23 (2)	0.72	0.33	-450.49	-319.1	-692.2	17.6
588	nodo 23 (3)	0.72	0.33	-449.75	-319.7	-693.0	17.6
589	nodo 23 (4)	0.90	0.21	-446.19	-339.5	-721.6	17.9
590	nodo 23 (5)	6.18	5.86	-316.57	799.1	-1391.9	55.6
591	nodo 23 (6)	6.20	5.96	-316.61	818.9	-1395.7	51.3
592	nodo 23 (7)	4.05	2.45	-316.11	164.2	-1037.6	38.3
593	nodo 23 (8)	4.08	2.56	-316.15	184.1	-1041.5	34.0
594	nodo 23 (9)	6.70	5.48	-316.49	737.3	-1467.8	39.8
595	nodo 23 (10)	6.72	5.59	-316.53	757.2	-1471.7	35.6
596	nodo 23 (11)	4.58	2.08	-316.03	102.4	-1113.6	22.6
597	nodo 23 (12)	4.60	2.19	-316.08	122.3	-1117.4	18.3
598	nodo 23 (13)	5.54	6.83	-316.65	994.5	-1323.1	58.1
599	nodo 23 (14)	5.69	6.72	-316.62	976.0	-1345.8	53.4
600	nodo 23 (15)	2.73	4.48	-316.32	565.6	-890.9	43.6
601	nodo 23 (16)	2.88	4.37	-316.30	547.1	-913.7	38.9
602	nodo 23 (17)	5.61	7.19	-316.79	1060.8	-1336.0	43.9
603	nodo 23 (18)	5.77	7.08	-316.76	1042.3	-1358.8	39.2
604	nodo 23 (19)	2.81	4.84	-316.46	631.8	-903.9	29.4
605	nodo 23 (20)	2.96	4.72	-316.44	613.3	-926.7	24.7
606	nodo 23 (21)	-3.18	-1.98	-315.49	-630.7	48.5	7.0
607	nodo 23 (22)	-3.16	-1.88	-315.54	-610.8	44.6	2.7
608	nodo 23 (23)	-5.30	-5.39	-315.04	-1265.6	402.8	-10.2
609	nodo 23 (24)	-5.28	-5.28	-315.08	-1245.7	398.9	-14.5
610	nodo 23 (25)	-2.66	-2.36	-315.42	-692.5	-27.4	-8.7
611	nodo 23 (26)	-2.63	-2.25	-315.46	-672.6	-31.3	-13.0
612	nodo 23 (27)	-4.78	-5.76	-314.96	-1327.3	326.8	-26.0
613	nodo 23 (28)	-4.76	-5.66	-315.00	-1307.5	322.9	-30.3
614	nodo 23 (29)	-1.55	-4.52	-315.13	-1121.7	-142.2	0.6
615	nodo 23 (30)	-1.39	-4.63	-315.11	-1140.3	-165.0	-4.1
616	nodo 23 (31)	-4.35	-6.87	-314.81	-1550.7	289.9	-13.9
617	nodo 23 (32)	-4.20	-6.99	-314.78	-1569.2	267.1	-18.6
618	nodo 23 (33)	-1.47	-4.16	-315.27	-1055.5	-155.2	-13.6
619	nodo 23 (34)	-1.31	-4.28	-315.24	-1074.0	-178.0	-18.3
620	nodo 23 (35)	-4.27	-6.52	-314.95	-1484.4	276.9	-28.1
621	nodo 23 (36)	-4.12	-6.63	-314.92	-1503.0	254.1	-32.8
622	nodo 23 (37)	0.52	0.23	-326.81	-234.0	-506.8	12.7
623	nodo 23 (38)	0.52	0.24	-329.76	-231.7	-504.0	12.8
624	nodo 23 (39)	0.52	0.24	-329.27	-232.1	-504.5	12.8

625	nodo 23 (40)	0.63	0.16	-326.89	-245.3	-523.6	13.0
626	nodo 23 (41)	0.52	0.23	-319.75	-235.9	-508.1	12.3
627	nodo 23 (42)	0.56	0.20	-316.85	-238.3	-511.0	12.3
628	nodo 23 (43)	0.56	0.20	-315.67	-239.2	-512.1	12.2
629	nodo 23 (44)	0.60	0.17	-315.70	-243.0	-517.7	12.3
630	nodo 23 (45)	0.56	0.20	-315.67	-239.2	-512.1	12.2
631	nodo 24 (1)	2.73	-0.77	-366.21	-773.3	-1324.0	17.1
632	nodo 24 (2)	2.45	-0.45	-356.35	-652.5	-1206.3	16.8
633	nodo 24 (3)	2.44	-0.45	-355.61	-653.3	-1205.2	16.8
634	nodo 24 (4)	2.12	-0.02	-356.76	-513.2	-1085.6	17.1
635	nodo 24 (5)	6.02	7.79	-259.37	1155.8	-2146.0	55.6
636	nodo 24 (6)	8.75	7.63	-259.49	1123.1	-2150.8	51.3
637	nodo 24 (7)	5.99	3.28	-264.65	283.3	-1616.4	37.7
638	nodo 24 (8)	8.73	3.12	-264.78	250.7	-1621.3	33.4
639	nodo 24 (9)	6.66	7.49	-261.09	1092.8	-2255.0	40.6
640	nodo 24 (10)	9.39	7.33	-261.22	1060.1	-2259.9	36.3
641	nodo 24 (11)	6.63	2.99	-266.38	220.4	-1725.5	22.7
642	nodo 24 (12)	9.36	2.83	-266.50	187.7	-1730.4	18.4
643	nodo 24 (13)	-1.33	9.46	-246.43	1483.8	-1955.3	58.9
644	nodo 24 (14)	-1.14	9.37	-246.95	1464.9	-1988.0	54.4
645	nodo 24 (15)	-5.11	6.32	-240.24	878.7	-1234.5	44.0
646	nodo 24 (16)	-4.92	6.23	-240.76	859.8	-1267.3	39.6
647	nodo 24 (17)	7.78	8.93	-246.86	1374.8	-1971.6	44.5
648	nodo 24 (18)	7.98	8.84	-247.38	1355.9	-2004.3	40.0
649	nodo 24 (19)	4.00	5.79	-240.67	769.7	-1250.8	29.6
650	nodo 24 (20)	4.19	5.70	-241.19	750.8	-1283.5	25.1
651	nodo 24 (21)	-6.59	-2.68	-238.73	-861.2	256.7	6.0
652	nodo 24 (22)	-3.86	-2.84	-238.86	-893.9	251.8	1.7
653	nodo 24 (23)	-6.62	-7.19	-244.02	-1733.6	786.2	-11.9
654	nodo 24 (24)	-3.89	-7.35	-244.14	-1766.3	781.3	-16.2
655	nodo 24 (25)	-5.96	-2.98	-240.46	-924.2	147.6	-8.9
656	nodo 24 (26)	-3.22	-3.14	-240.59	-956.9	142.7	-13.3
657	nodo 24 (27)	-5.99	-7.48	-245.74	-1796.6	677.2	-26.8
658	nodo 24 (28)	-3.25	-7.64	-245.87	-1829.3	672.3	-31.2
659	nodo 24 (29)	-1.42	-5.56	-264.05	-1424.3	-190.2	-0.7
660	nodo 24 (30)	-1.23	-5.64	-264.56	-1443.2	-222.9	-5.2
661	nodo 24 (31)	-5.21	-8.70	-257.86	-2029.4	530.6	-15.6
662	nodo 24 (32)	-5.02	-8.78	-258.37	-2048.3	497.9	-20.1
663	nodo 24 (33)	7.69	-6.09	-264.48	-1533.3	-206.4	-15.1
664	nodo 24 (34)	7.88	-6.18	-264.99	-1552.2	-239.2	-19.6
665	nodo 24 (35)	3.90	-9.23	-258.28	-2138.4	514.3	-30.0
666	nodo 24 (36)	4.10	-9.32	-258.80	-2157.3	481.6	-34.5
667	nodo 24 (37)	1.73	-0.33	-258.09	-475.8	-867.0	12.2
668	nodo 24 (38)	1.75	-0.32	-261.08	-472.3	-871.4	12.3
669	nodo 24 (39)	1.74	-0.32	-260.58	-472.9	-870.7	12.2
670	nodo 24 (40)	1.53	-0.04	-261.34	-379.4	-790.9	12.5
671	nodo 24 (41)	1.71	-0.38	-251.14	-488.4	-863.2	11.9
672	nodo 24 (42)	1.66	-0.32	-249.47	-463.9	-840.1	11.8
673	nodo 24 (43)	1.65	-0.32	-248.28	-465.3	-838.3	11.8
674	nodo 24 (44)	1.58	-0.22	-249.36	-433.1	-813.0	11.9
675	nodo 24 (45)	1.65	-0.32	-248.28	-465.3	-838.3	11.8
676	nodo 25 (1)	1.87	-1.24	-352.17	-951.1	-1098.4	15.7
677	nodo 25 (2)	1.72	-0.83	-342.71	-805.4	-1018.8	15.5
678	nodo 25 (3)	1.71	-0.84	-342.00	-806.6	-1017.0	15.5
679	nodo 25 (4)	1.56	-0.31	-343.13	-638.3	-948.1	15.9
680	nodo 25 (5)	5.37	8.33	-249.35	1215.9	-1483.3	54.8
681	nodo 25 (6)	5.33	8.07	-249.75	1164.3	-1983.4	50.4

682	nodo 25 (7)	7.95	3.43	-256.54	267.1	-1476.4	36.6
683	nodo 25 (8)	7.91	3.17	-256.94	215.6	-1976.5	32.3
684	nodo 25 (9)	6.37	7.98	-251.10	1143.3	-1656.2	40.5
685	nodo 25 (10)	6.34	7.72	-251.51	1091.8	-2156.2	36.2
686	nodo 25 (11)	8.95	3.08	-258.30	194.6	-1649.3	22.4
687	nodo 25 (12)	8.91	2.82	-258.70	143.0	-2149.4	18.0
688	nodo 25 (13)	-1.54	10.24	-233.38	1588.2	-149.6	58.6
689	nodo 25 (14)	-1.24	10.14	-233.91	1566.4	-201.5	54.3
690	nodo 25 (15)	-5.21	6.83	-226.76	928.7	552.2	43.6
691	nodo 25 (16)	-4.91	6.73	-227.29	907.0	500.4	39.3
692	nodo 25 (17)	-1.66	9.37	-234.72	1416.3	-1816.5	44.1
693	nodo 25 (18)	-1.35	9.27	-235.25	1394.6	-1868.3	39.8
694	nodo 25 (19)	-5.33	5.96	-228.10	756.9	-1114.6	29.1
695	nodo 25 (20)	-5.03	5.86	-228.63	735.1	-1166.5	24.8
696	nodo 25 (21)	-6.89	-3.05	-227.29	-982.3	856.2	4.8
697	nodo 25 (22)	-6.93	-3.31	-227.69	-1033.8	356.1	0.5
698	nodo 25 (23)	-4.31	-7.95	-234.49	-1931.0	863.1	-13.3
699	nodo 25 (24)	-4.35	-8.21	-234.89	-1982.6	363.0	-17.7
700	nodo 25 (25)	-5.89	-3.39	-229.05	-1054.8	683.3	-9.5
701	nodo 25 (26)	-5.92	-3.65	-229.45	-1106.3	183.2	-13.8
702	nodo 25 (27)	-3.31	-8.29	-236.24	-2003.5	690.2	-27.6
703	nodo 25 (28)	-3.35	-8.55	-236.65	-2055.1	190.1	-32.0
704	nodo 25 (29)	7.05	-6.08	-257.36	-1574.4	-126.7	-2.0
705	nodo 25 (30)	7.35	-6.19	-257.89	-1596.1	-178.6	-6.2
706	nodo 25 (31)	3.38	-9.50	-250.75	-2233.8	575.1	-16.9
707	nodo 25 (32)	3.68	-9.60	-251.27	-2255.6	523.3	-21.2
708	nodo 25 (33)	6.93	-6.95	-258.70	-1746.2	-1793.6	-16.5
709	nodo 25 (34)	7.24	-7.05	-259.23	-1767.9	-1845.4	-20.8
710	nodo 25 (35)	3.26	-10.36	-252.09	-2405.6	-1091.7	-31.5
711	nodo 25 (36)	3.56	-10.47	-252.61	-2427.4	-1143.6	-35.8
712	nodo 25 (37)	1.20	-0.61	-248.21	-586.4	-729.8	11.3
713	nodo 25 (38)	1.22	-0.59	-251.06	-581.5	-736.9	11.3
714	nodo 25 (39)	1.22	-0.60	-250.59	-582.4	-735.7	11.3
715	nodo 25 (40)	1.12	-0.25	-251.34	-470.1	-689.8	11.6
716	nodo 25 (41)	1.16	-0.67	-241.57	-602.4	-718.0	11.1
717	nodo 25 (42)	1.13	-0.59	-239.96	-572.7	-702.8	11.0
718	nodo 25 (43)	1.12	-0.60	-238.82	-574.7	-700.0	11.0
719	nodo 25 (44)	1.09	-0.48	-239.87	-535.9	-686.6	11.1
720	nodo 25 (45)	1.12	-0.60	-238.82	-574.7	-700.0	11.0
721	nodo 26 (1)	-3.05	0.56	-530.31	-207.2	334.2	16.8
722	nodo 26 (2)	-2.86	0.47	-512.23	-213.0	313.1	16.5
723	nodo 26 (3)	-2.85	0.46	-511.64	-214.7	308.9	16.5
724	nodo 26 (4)	-2.62	0.30	-507.92	-245.9	262.5	16.8
725	nodo 26 (5)	0.61	-2.25	-338.18	-566.9	-105.7	54.0
726	nodo 26 (6)	0.58	-1.91	-338.39	-501.4	-294.2	49.7
727	nodo 26 (7)	2.12	-4.49	-325.49	-911.8	-100.8	37.4
728	nodo 26 (8)	2.10	-4.15	-325.70	-846.3	-289.4	33.1
729	nodo 26 (9)	1.80	3.58	-335.19	327.3	-314.0	38.2
730	nodo 26 (10)	1.77	3.91	-335.39	392.9	-502.5	33.9
731	nodo 26 (11)	3.31	1.34	-322.50	-17.6	-309.1	21.5
732	nodo 26 (12)	3.29	1.67	-322.70	48.0	-497.7	17.2
733	nodo 26 (13)	-3.29	2.31	-373.29	116.7	349.6	56.3
734	nodo 26 (14)	-2.93	4.06	-372.39	384.9	287.1	51.5
735	nodo 26 (15)	-5.49	2.57	-391.80	154.9	618.7	42.0
736	nodo 26 (16)	-5.14	4.32	-390.90	423.2	556.2	37.3
737	nodo 26 (17)	-3.36	3.43	-373.98	335.1	-278.9	42.0
738	nodo 26 (18)	-3.00	5.17	-373.08	603.4	-341.4	37.2

739	nodo 26 (19)	-5.56	3.68	-392.49	373.4	-9.8	27.7
740	nodo 26 (20)	-5.21	5.43	-391.59	641.7	-72.3	22.9
741	nodo 26 (21)	-6.74	-1.40	-399.88	-439.3	791.3	6.6
742	nodo 26 (22)	-6.76	-1.06	-400.08	-373.8	602.8	2.3
743	nodo 26 (23)	-5.23	-3.64	-387.18	-784.2	796.2	-10.1
744	nodo 26 (24)	-5.25	-3.30	-387.39	-718.7	607.6	-14.4
745	nodo 26 (25)	-5.55	4.43	-396.88	454.9	583.0	-9.3
746	nodo 26 (26)	-5.57	4.76	-397.09	520.5	394.5	-13.6
747	nodo 26 (27)	-4.04	2.19	-384.19	110.0	587.9	-25.9
748	nodo 26 (28)	-4.06	2.52	-384.40	175.6	399.3	-30.2
749	nodo 26 (29)	1.75	-5.15	-330.99	-1033.0	365.9	0.8
750	nodo 26 (30)	2.11	-3.41	-330.09	-764.7	303.4	-3.9
751	nodo 26 (31)	-0.45	-4.90	-349.50	-994.7	635.0	-13.4
752	nodo 26 (32)	-0.09	-3.15	-348.60	-726.5	572.5	-18.2
753	nodo 26 (33)	1.68	-4.04	-331.68	-814.6	-262.6	-13.5
754	nodo 26 (34)	2.04	-2.29	-330.78	-546.3	-325.1	-18.3
755	nodo 26 (35)	-0.52	-3.78	-350.19	-776.3	6.5	-27.7
756	nodo 26 (36)	-0.17	-2.04	-349.29	-508.0	-56.0	-32.5
757	nodo 26 (37)	-2.00	0.30	-372.82	-167.3	199.2	11.9
758	nodo 26 (38)	-2.06	0.32	-375.19	-160.6	216.1	12.0
759	nodo 26 (39)	-2.05	0.31	-374.80	-161.7	213.3	12.0
760	nodo 26 (40)	-1.89	0.21	-372.32	-182.5	182.3	12.2
761	nodo 26 (41)	-1.93	0.28	-366.29	-172.3	178.6	11.5
762	nodo 26 (42)	-1.90	0.27	-362.91	-172.8	176.1	11.5
763	nodo 26 (43)	-1.87	0.26	-361.96	-175.5	169.3	11.4
764	nodo 26 (44)	-1.84	0.23	-361.79	-180.5	163.7	11.6
765	nodo 26 (45)	-1.87	0.26	-361.96	-175.5	169.3	11.4
766	nodo 27 (1)	3.07	-0.41	-318.34	-745.6	-1470.1	14.7
767	nodo 27 (2)	2.97	-0.03	-310.09	-604.7	-1407.2	14.5
768	nodo 27 (3)	2.96	-0.03	-309.44	-606.1	-1403.8	14.5
769	nodo 27 (4)	2.98	0.53	-310.58	-426.7	-1389.3	14.9
770	nodo 27 (5)	6.09	10.16	-227.30	1638.4	-1730.2	54.0
771	nodo 27 (6)	6.05	9.76	-228.02	1560.5	-1723.5	49.7
772	nodo 27 (7)	8.49	4.61	-237.10	546.2	-2187.2	35.8
773	nodo 27 (8)	8.46	4.22	-237.82	468.2	-2180.6	31.5
774	nodo 27 (9)	7.28	9.69	-228.93	1543.5	-1933.4	40.0
775	nodo 27 (10)	7.25	9.30	-229.65	1465.5	-1926.7	35.7
776	nodo 27 (11)	9.69	4.15	-238.73	451.3	-2390.4	21.8
777	nodo 27 (12)	9.65	3.76	-239.45	373.3	-2383.8	17.4
778	nodo 27 (13)	-0.34	12.40	-206.23	2080.9	-513.0	58.0
779	nodo 27 (14)	0.02	12.26	-206.72	2052.5	-573.9	53.8
780	nodo 27 (15)	-3.83	8.53	-198.20	1318.5	140.9	43.0
781	nodo 27 (16)	-3.47	8.39	-198.69	1290.0	79.9	38.8
782	nodo 27 (17)	-0.44	11.09	-208.62	1821.0	-490.7	43.4
783	nodo 27 (18)	-0.08	10.95	-209.11	1792.6	-551.7	39.2
784	nodo 27 (19)	-3.94	7.22	-200.59	1058.6	163.2	28.4
785	nodo 27 (20)	-3.58	7.08	-201.08	1030.1	102.2	24.2
786	nodo 27 (21)	-5.56	-2.75	-200.54	-903.0	449.4	4.1
787	nodo 27 (22)	-5.59	-3.14	-201.25	-981.0	456.1	-0.3
788	nodo 27 (23)	-3.15	-8.29	-210.34	-1995.2	-7.7	-14.1
789	nodo 27 (24)	-3.19	-8.68	-211.06	-2073.2	-1.0	-18.5
790	nodo 27 (25)	-4.36	-3.21	-202.17	-997.9	246.2	-9.9
791	nodo 27 (26)	-4.39	-3.60	-202.88	-1075.9	252.9	-14.3
792	nodo 27 (27)	-1.96	-8.75	-211.97	-2090.2	-210.9	-28.1
793	nodo 27 (28)	-1.99	-9.14	-212.69	-2168.1	-204.2	-32.5
794	nodo 27 (29)	7.67	-6.07	-238.91	-1559.9	-2036.6	-2.7
795	nodo 27 (30)	8.03	-6.21	-239.39	-1588.3	-2097.5	-6.9

796	nodo 27 (31)	4.18	-9.94	-230.88	-2322.3	-1382.7	-17.7
797	nodo 27 (32)	4.54	-10.08	-231.37	-2350.8	-1443.6	-21.9
798	nodo 27 (33)	7.57	-7.38	-241.30	-1819.7	-2014.3	-17.3
799	nodo 27 (34)	7.93	-7.52	-241.79	-1848.2	-2075.2	-21.5
800	nodo 27 (35)	4.07	-11.25	-233.27	-2582.2	-1360.4	-32.3
801	nodo 27 (36)	4.43	-11.39	-233.76	-2610.7	-1421.4	-36.5
802	nodo 27 (37)	2.11	-0.01	-224.53	-436.6	-1012.7	10.6
803	nodo 27 (38)	2.16	0.01	-227.12	-431.0	-1026.6	10.6
804	nodo 27 (39)	2.15	0.01	-226.69	-432.0	-1024.3	10.6
805	nodo 27 (40)	2.17	0.38	-227.45	-312.4	-1014.6	10.9
806	nodo 27 (41)	2.00	-0.09	-218.52	-457.0	-981.3	10.4
807	nodo 27 (42)	1.99	-0.01	-217.13	-428.3	-970.2	10.4
808	nodo 27 (43)	1.97	-0.02	-216.10	-430.5	-964.6	10.4
809	nodo 27 (44)	1.99	0.11	-217.07	-389.1	-965.2	10.5
810	nodo 27 (45)	1.97	-0.02	-216.10	-430.5	-964.6	10.4
811	nodo 28 (1)	0.33	0.18	-465.27	-438.1	-659.5	16.2
812	nodo 28 (2)	0.49	0.06	-449.44	-451.3	-673.4	15.9
813	nodo 28 (3)	0.49	0.05	-448.71	-452.3	-673.4	15.9
814	nodo 28 (4)	0.65	-0.05	-445.22	-468.9	-698.9	16.3
815	nodo 28 (5)	5.84	5.50	-315.69	605.6	-1432.3	54.5
816	nodo 28 (6)	5.89	5.52	-315.72	612.9	-1443.9	50.1
817	nodo 28 (7)	3.70	2.16	-315.29	28.5	-1035.8	36.8
818	nodo 28 (8)	3.75	2.19	-315.32	35.8	-1047.4	32.5
819	nodo 28 (9)	6.99	5.18	-315.75	550.7	-1610.7	39.9
820	nodo 28 (10)	7.04	5.20	-315.77	558.0	-1622.3	35.5
821	nodo 28 (11)	4.85	1.84	-315.35	-26.4	-1214.2	22.2
822	nodo 28 (12)	4.90	1.86	-315.37	-19.1	-1225.8	17.9
823	nodo 28 (13)	5.27	6.60	-315.80	799.3	-1370.8	57.9
824	nodo 28 (14)	5.62	6.50	-315.82	782.8	-1424.3	53.5
825	nodo 28 (15)	2.35	4.33	-315.51	412.1	-879.5	43.2
826	nodo 28 (16)	2.70	4.23	-315.52	395.6	-933.0	38.8
827	nodo 28 (17)	5.43	6.68	-315.88	823.7	-1409.3	43.4
828	nodo 28 (18)	5.78	6.59	-315.90	807.3	-1462.8	39.1
829	nodo 28 (19)	2.52	4.41	-315.59	436.5	-918.0	28.7
830	nodo 28 (20)	2.86	4.32	-315.60	420.1	-971.5	24.3
831	nodo 28 (21)	-3.89	-2.07	-314.71	-685.2	205.2	5.4
832	nodo 28 (22)	-3.84	-2.05	-314.73	-677.8	193.6	1.1
833	nodo 28 (23)	-6.03	-5.41	-314.31	-1262.2	601.7	-12.3
834	nodo 28 (24)	-5.98	-5.39	-314.33	-1254.9	590.2	-16.6
835	nodo 28 (25)	-2.74	-2.40	-314.76	-740.1	26.8	-9.2
836	nodo 28 (26)	-2.69	-2.37	-314.79	-732.7	15.3	-13.5
837	nodo 28 (27)	-4.88	-5.73	-314.36	-1317.1	423.3	-26.9
838	nodo 28 (28)	-4.83	-5.71	-314.39	-1309.8	411.8	-31.2
839	nodo 28 (29)	-1.85	-4.53	-314.48	-1124.3	-49.0	-1.1
840	nodo 28 (30)	-1.50	-4.62	-314.49	-1140.8	-102.6	-5.4
841	nodo 28 (31)	-4.77	-6.80	-314.18	-1511.5	442.2	-15.8
842	nodo 28 (32)	-4.42	-6.89	-314.20	-1528.0	388.7	-20.2
843	nodo 28 (33)	-1.69	-4.44	-314.56	-1099.8	-87.5	-15.5
844	nodo 28 (34)	-1.34	-4.54	-314.57	-1116.3	-141.1	-19.9
845	nodo 28 (35)	-4.60	-6.71	-314.26	-1487.1	403.7	-30.3
846	nodo 28 (36)	-4.26	-6.81	-314.28	-1503.5	350.2	-34.6
847	nodo 28 (37)	0.34	0.03	-325.93	-332.7	-488.0	11.5
848	nodo 28 (38)	0.34	0.04	-328.84	-328.7	-488.3	11.6
849	nodo 28 (39)	0.34	0.04	-328.36	-329.4	-488.3	11.6
850	nodo 28 (40)	0.45	-0.03	-326.03	-340.5	-505.3	11.8
851	nodo 28 (41)	0.33	0.00	-318.94	-337.9	-484.5	11.3
852	nodo 28 (42)	0.36	-0.02	-316.07	-340.1	-487.3	11.3

853	nodo 28 (43)	0.36	-0.03	-314.91	-341.7	-487.2	11.2
854	nodo 28 (44)	0.39	-0.05	-314.94	-344.3	-493.0	11.3
855	nodo 28 (45)	0.36	-0.03	-314.91	-341.7	-487.2	11.2
856	nodo 29 (1)	3.68	0.63	-258.38	-471.5	-1658.2	13.7
857	nodo 29 (2)	3.63	0.90	-252.50	-365.2	-1609.0	13.6
858	nodo 29 (3)	3.62	0.90	-251.94	-365.9	-1605.3	13.6
859	nodo 29 (4)	3.76	1.42	-253.32	-201.0	-1624.6	14.0
860	nodo 29 (5)	6.15	12.11	-189.03	2087.2	-1761.5	52.7
861	nodo 29 (6)	6.12	11.59	-190.13	1985.6	-2141.4	48.3
862	nodo 29 (7)	8.27	5.88	-201.70	843.1	-1755.5	34.9
863	nodo 29 (8)	8.24	5.36	-202.80	741.5	-2135.3	30.5
864	nodo 29 (9)	7.21	11.42	-191.95	1944.5	-1912.4	38.8
865	nodo 29 (10)	7.18	10.90	-193.05	1842.9	-2292.2	34.4
866	nodo 29 (11)	9.33	5.20	-204.62	700.4	-1906.3	21.0
867	nodo 29 (12)	9.30	4.68	-205.73	598.8	-2286.2	16.6
868	nodo 29 (13)	0.52	14.66	-161.45	2595.4	-763.1	56.5
869	nodo 29 (14)	0.84	14.45	-162.33	2552.5	-808.4	52.3
870	nodo 29 (15)	-2.53	10.31	-150.72	1728.0	-235.8	41.8
871	nodo 29 (16)	-2.22	10.10	-151.60	1685.2	-281.1	37.6
872	nodo 29 (17)	0.42	12.93	-165.13	2256.6	-2029.3	42.0
873	nodo 29 (18)	0.73	12.73	-166.01	2213.8	-2074.5	37.8
874	nodo 29 (19)	-2.64	8.58	-154.39	1389.3	-1502.0	27.3
875	nodo 29 (20)	-2.32	8.38	-155.27	1346.4	-1547.2	23.1
876	nodo 29 (21)	-4.03	-2.39	-153.24	-804.0	-4.0	3.6
877	nodo 29 (22)	-4.06	-2.91	-154.34	-905.6	-383.8	-0.8
878	nodo 29 (23)	-1.91	-8.61	-165.91	-2048.1	2.1	-14.2
879	nodo 29 (24)	-1.94	-9.13	-167.02	-2149.7	-377.8	-18.6
880	nodo 29 (25)	-2.97	-3.08	-156.16	-946.7	-154.8	-10.3
881	nodo 29 (26)	-3.00	-3.59	-157.27	-1048.4	-534.7	-14.7
882	nodo 29 (27)	-0.85	-9.30	-168.84	-2190.8	-148.8	-28.1
883	nodo 29 (28)	-0.88	-9.82	-169.94	-2292.5	-528.6	-32.5
884	nodo 29 (29)	7.59	-6.09	-203.70	-1551.7	-742.9	-2.9
885	nodo 29 (30)	7.91	-6.29	-204.57	-1594.5	-788.2	-7.1
886	nodo 29 (31)	4.54	-10.44	-192.96	-2419.0	-215.7	-17.6
887	nodo 29 (32)	4.85	-10.64	-193.84	-2461.9	-260.9	-21.8
888	nodo 29 (33)	7.49	-7.81	-207.37	-1890.4	-2009.1	-17.4
889	nodo 29 (34)	7.80	-8.02	-208.25	-1933.2	-2054.3	-21.5
890	nodo 29 (35)	4.43	-12.16	-196.64	-2757.8	-1481.8	-32.1
891	nodo 29 (36)	4.75	-12.37	-197.51	-2800.6	-1527.1	-36.3
892	nodo 29 (37)	2.60	0.70	-182.63	-252.8	-1163.2	9.9
893	nodo 29 (38)	2.66	0.71	-184.88	-249.8	-1178.0	9.9
894	nodo 29 (39)	2.65	0.71	-184.50	-250.3	-1175.6	9.9
895	nodo 29 (40)	2.74	1.05	-185.42	-140.3	-1188.4	10.2
896	nodo 29 (41)	2.48	0.62	-177.61	-273.0	-1125.7	9.8
897	nodo 29 (42)	2.47	0.67	-176.66	-251.4	-1117.4	9.7
898	nodo 29 (43)	2.45	0.67	-175.76	-252.6	-1111.5	9.7
899	nodo 29 (44)	2.50	0.79	-176.69	-215.1	-1119.9	9.8
900	nodo 29 (45)	2.45	0.67	-175.76	-252.6	-1111.5	9.7
901	nodo 30 (1)	-0.10	0.30	-448.79	-463.6	-567.4	14.1
902	nodo 30 (2)	0.07	0.16	-433.63	-481.0	-582.9	13.9
903	nodo 30 (3)	0.07	0.16	-432.93	-481.9	-581.7	13.9
904	nodo 30 (4)	0.22	0.07	-429.62	-494.6	-605.9	14.3
905	nodo 30 (5)	3.38	5.58	-305.14	491.7	-1405.7	53.4
906	nodo 30 (6)	5.51	5.49	-305.18	480.9	-1419.6	49.0
907	nodo 30 (7)	3.34	2.28	-305.95	-18.2	-994.5	35.2
908	nodo 30 (8)	5.47	2.19	-305.99	-28.9	-1008.5	30.8
909	nodo 30 (9)	5.04	5.28	-305.86	434.8	-1674.4	39.8

910	nodo 30 (10)	7.17	5.20	-305.90	424.0	-1688.4	35.3
911	nodo 30 (11)	4.99	1.99	-306.66	-75.1	-1263.3	21.6
912	nodo 30 (12)	7.12	1.90	-306.70	-85.8	-1277.2	17.2
913	nodo 30 (13)	-2.04	6.79	-303.02	677.9	-1328.9	57.5
914	nodo 30 (14)	-1.54	6.70	-303.23	660.9	-1409.5	53.4
915	nodo 30 (15)	-5.09	4.53	-301.83	334.1	-785.2	42.6
916	nodo 30 (16)	-4.59	4.45	-302.04	317.0	-865.9	38.5
917	nodo 30 (17)	5.07	6.50	-303.15	642.1	-1375.4	42.8
918	nodo 30 (18)	5.56	6.41	-303.37	625.0	-1456.0	38.7
919	nodo 30 (19)	2.01	4.24	-301.96	298.2	-831.7	27.9
920	nodo 30 (20)	2.51	4.15	-302.17	281.1	-912.3	23.8
921	nodo 30 (21)	-6.79	-1.94	-301.17	-654.6	406.6	3.5
922	nodo 30 (22)	-4.66	-2.03	-301.21	-665.3	392.6	-0.9
923	nodo 30 (23)	-6.84	-5.24	-301.98	-1164.4	817.7	-14.6
924	nodo 30 (24)	-4.70	-5.32	-302.02	-1175.2	803.8	-19.0
925	nodo 30 (25)	-5.14	-2.24	-301.89	-711.5	137.8	-10.1
926	nodo 30 (26)	-3.01	-2.32	-301.93	-722.2	123.9	-14.5
927	nodo 30 (27)	-5.18	-5.53	-302.69	-1221.3	549.0	-28.3
928	nodo 30 (28)	-3.05	-5.62	-302.73	-1232.1	535.1	-32.7
929	nodo 30 (29)	-2.18	-4.20	-305.70	-1021.6	41.7	-3.1
930	nodo 30 (30)	-1.68	-4.28	-305.92	-1038.6	-38.9	-7.2
931	nodo 30 (31)	-5.23	-6.45	-304.51	-1365.4	585.4	-18.0
932	nodo 30 (32)	-4.73	-6.54	-304.73	-1382.5	504.7	-22.1
933	nodo 30 (33)	4.92	-4.49	-305.83	-1057.4	-4.8	-17.8
934	nodo 30 (34)	5.42	-4.58	-306.05	-1074.5	-85.4	-21.8
935	nodo 30 (35)	1.87	-6.74	-304.64	-1401.3	538.9	-32.7
936	nodo 30 (36)	2.37	-6.83	-304.86	-1418.3	458.3	-36.8
937	nodo 30 (37)	0.01	0.11	-314.36	-352.0	-416.6	10.2
938	nodo 30 (38)	0.03	0.12	-317.17	-348.4	-421.4	10.2
939	nodo 30 (39)	0.03	0.12	-316.70	-349.0	-420.6	10.2
940	nodo 30 (40)	0.13	0.06	-314.49	-357.5	-436.8	10.4
941	nodo 30 (41)	-0.02	0.08	-307.64	-358.3	-406.8	10.0
942	nodo 30 (42)	0.02	0.05	-304.89	-361.5	-410.4	10.0
943	nodo 30 (43)	0.01	0.04	-303.77	-362.9	-408.5	10.0
944	nodo 30 (44)	0.05	0.03	-303.81	-364.7	-415.2	10.1
945	nodo 30 (45)	0.01	0.04	-303.77	-362.9	-408.5	10.0
946	nodo 31 (1)	-2.74	1.34	-538.68	-49.5	182.6	17.0
947	nodo 31 (2)	-2.57	1.23	-520.57	-58.7	166.6	16.7
948	nodo 31 (3)	-2.56	1.22	-519.96	-61.4	163.6	16.7
949	nodo 31 (4)	-2.36	1.06	-516.23	-93.2	124.2	17.1
950	nodo 31 (5)	0.45	-1.27	-348.68	-361.0	-188.4	54.2
951	nodo 31 (6)	0.50	-1.05	-348.28	-314.6	-404.0	49.8
952	nodo 31 (7)	1.97	-3.49	-333.11	-657.1	-188.7	37.1
953	nodo 31 (8)	2.01	-3.27	-332.71	-610.7	-404.3	32.6
954	nodo 31 (9)	2.46	4.08	-344.30	363.0	-533.9	40.0
955	nodo 31 (10)	2.50	4.30	-343.90	409.4	-749.5	35.6
956	nodo 31 (11)	3.97	1.87	-328.73	66.9	-534.2	22.8
957	nodo 31 (12)	4.02	2.09	-328.32	113.4	-749.8	18.4
958	nodo 31 (13)	-3.33	3.10	-385.73	203.2	311.5	57.6
959	nodo 31 (14)	-2.73	4.70	-384.42	420.4	207.8	53.3
960	nodo 31 (15)	-5.62	3.24	-402.82	219.9	627.7	43.1
961	nodo 31 (16)	-5.02	4.84	-401.51	437.1	524.0	38.9
962	nodo 31 (17)	-3.20	3.83	-384.38	357.9	-407.2	42.8
963	nodo 31 (18)	-2.60	5.43	-383.07	575.1	-510.9	38.5
964	nodo 31 (19)	-5.49	3.97	-401.48	374.6	-91.0	28.4
965	nodo 31 (20)	-4.88	5.58	-400.16	591.8	-194.6	24.1
966	nodo 31 (21)	-7.18	-0.80	-405.66	-305.3	865.6	6.1

967	nodo 31 (22)	-7.13	-0.58	-405.25	-258.9	650.0	1.7
968	nodo 31 (23)	-5.66	-3.01	-390.09	-601.4	865.4	-11.1
969	nodo 31 (24)	-5.62	-2.79	-389.68	-555.0	649.8	-15.5
970	nodo 31 (25)	-5.17	4.56	-401.28	418.7	520.2	-8.1
971	nodo 31 (26)	-5.13	4.78	-400.87	465.1	304.6	-12.6
972	nodo 31 (27)	-3.66	2.34	-385.70	122.6	519.9	-25.3
973	nodo 31 (28)	-3.61	2.56	-385.30	169.0	304.3	-29.7
974	nodo 31 (29)	1.73	-4.29	-333.82	-783.8	310.5	0.4
975	nodo 31 (30)	2.33	-2.68	-332.51	-566.6	206.9	-3.9
976	nodo 31 (31)	-0.56	-4.14	-350.91	-767.1	626.8	-14.0
977	nodo 31 (32)	0.04	-2.54	-349.60	-549.9	523.1	-18.3
978	nodo 31 (33)	1.86	-3.55	-332.47	-629.0	-408.2	-14.4
979	nodo 31 (34)	2.46	-1.95	-331.16	-411.8	-511.8	-18.6
980	nodo 31 (35)	-0.42	-3.41	-349.57	-612.3	-91.9	-28.8
981	nodo 31 (36)	0.18	-1.81	-348.25	-395.1	-195.6	-33.1
982	nodo 31 (37)	-1.81	0.82	-378.59	-62.7	100.0	12.2
983	nodo 31 (38)	-1.85	0.86	-381.03	-51.8	112.2	12.3
984	nodo 31 (39)	-1.85	0.86	-380.62	-53.6	110.1	12.2
985	nodo 31 (40)	-1.71	0.75	-378.13	-74.7	83.9	12.5
986	nodo 31 (41)	-1.76	0.78	-371.95	-74.8	86.3	11.9
987	nodo 31 (42)	-1.73	0.76	-368.57	-75.6	84.3	11.9
988	nodo 31 (43)	-1.72	0.75	-367.60	-80.0	79.4	11.9
989	nodo 31 (44)	-1.68	0.72	-367.45	-84.0	74.0	12.0
990	nodo 31 (45)	-1.72	0.75	-367.60	-80.0	79.4	11.9
991	nodo 32 (1)	1.74	0.83	-406.29	-364.7	-1129.6	11.1
992	nodo 32 (2)	1.77	0.65	-392.93	-392.3	-1103.5	11.1
993	nodo 32 (3)	1.76	0.65	-392.28	-392.4	-1101.0	11.1
994	nodo 32 (4)	1.89	0.58	-389.29	-402.8	-1121.4	11.5
995	nodo 32 (5)	4.51	6.45	-278.60	580.0	-1385.1	51.6
996	nodo 32 (6)	4.49	6.22	-278.92	546.2	-1800.4	47.2
997	nodo 32 (7)	6.64	2.94	-281.83	73.8	-1372.7	33.2
998	nodo 32 (8)	6.63	2.71	-282.14	40.0	-1788.0	28.7
999	nodo 32 (9)	6.50	6.20	-280.53	542.6	-1716.9	38.5
1000	nodo 32 (10)	6.48	5.97	-280.85	508.8	-2132.2	34.1
1001	nodo 32 (11)	8.63	2.69	-283.76	36.4	-1704.4	20.0
1002	nodo 32 (12)	8.61	2.46	-284.08	2.6	-2119.8	15.6
1003	nodo 32 (13)	-0.93	7.85	-270.92	783.7	-359.1	56.1
1004	nodo 32 (14)	-0.33	7.78	-271.50	772.5	-458.7	52.2
1005	nodo 32 (15)	-4.07	5.40	-267.30	429.5	216.9	41.1
1006	nodo 32 (16)	-3.47	5.32	-267.88	418.3	117.3	37.1
1007	nodo 32 (17)	-0.99	7.10	-271.98	671.1	-1743.6	41.4
1008	nodo 32 (18)	-0.39	7.03	-272.56	659.8	-1843.1	37.5
1009	nodo 32 (19)	-4.13	4.64	-268.37	316.9	-1167.6	26.3
1010	nodo 32 (20)	-3.54	4.57	-268.95	305.6	-1267.2	22.4
1011	nodo 32 (21)	-5.97	-1.74	-266.55	-600.6	534.9	1.3
1012	nodo 32 (22)	-5.98	-1.97	-266.87	-634.4	119.5	-3.1
1013	nodo 32 (23)	-3.83	-5.25	-269.78	-1106.8	547.3	-17.2
1014	nodo 32 (24)	-3.85	-5.47	-270.09	-1140.6	131.9	-21.6
1015	nodo 32 (25)	-3.98	-1.99	-268.48	-638.0	203.1	-11.8
1016	nodo 32 (26)	-4.00	-2.21	-268.80	-671.8	-212.3	-16.2
1017	nodo 32 (27)	-1.85	-5.50	-271.71	-1144.2	215.5	-30.3
1018	nodo 32 (28)	-1.86	-5.72	-272.03	-1178.0	-199.8	-34.7
1019	nodo 32 (29)	6.18	-3.84	-281.68	-903.6	-317.8	-5.4
1020	nodo 32 (30)	6.78	-3.92	-282.26	-914.8	-417.3	-9.4
1021	nodo 32 (31)	3.04	-6.30	-278.06	-1257.8	258.2	-20.5
1022	nodo 32 (32)	3.64	-6.38	-278.64	-1269.0	158.7	-24.5
1023	nodo 32 (33)	6.12	-4.60	-282.74	-1016.3	-1702.2	-20.2

1024	nodo 32 (34)	6.72	-4.67	-283.32	-1027.5	-1801.8	-24.1
1025	nodo 32 (35)	2.98	-7.05	-279.13	-1370.5	-1126.3	-35.3
1026	nodo 32 (36)	3.57	-7.13	-279.71	-1381.7	-1225.8	-39.2
1027	nodo 32 (37)	1.25	0.49	-284.65	-280.7	-797.1	8.1
1028	nodo 32 (38)	1.29	0.49	-287.25	-280.3	-807.4	8.1
1029	nodo 32 (39)	1.28	0.49	-286.82	-280.4	-805.7	8.1
1030	nodo 32 (40)	1.37	0.44	-284.82	-287.3	-819.2	8.4
1031	nodo 32 (41)	1.16	0.46	-278.53	-284.5	-771.3	8.1
1032	nodo 32 (42)	1.17	0.43	-276.12	-290.0	-767.1	8.1
1033	nodo 32 (43)	1.16	0.43	-275.08	-290.2	-763.0	8.1
1034	nodo 32 (44)	1.20	0.41	-275.14	-292.4	-770.4	8.2
1035	nodo 32 (45)	1.16	0.43	-275.08	-290.2	-763.0	8.1
1036	nodo 33 (1)	3.03	-0.30	-329.12	-740.9	-1519.3	7.1
1037	nodo 33 (2)	2.95	-0.40	-319.27	-742.3	-1461.1	7.2
1038	nodo 33 (3)	2.94	-0.39	-318.69	-740.8	-1458.5	7.2
1039	nodo 33 (4)	3.06	-0.43	-316.31	-742.0	-1472.0	7.7
1040	nodo 33 (5)	5.01	6.60	-231.64	452.0	-1898.9	50.7
1041	nodo 33 (6)	5.00	6.21	-232.58	388.7	-1911.1	46.2
1042	nodo 33 (7)	6.95	2.71	-241.42	-95.9	-1535.8	31.0
1043	nodo 33 (8)	6.94	2.32	-242.36	-159.2	-1547.9	26.5
1044	nodo 33 (9)	6.96	-2.74	-235.44	-905.3	-2207.2	38.1
1045	nodo 33 (10)	6.95	-3.13	-236.38	-968.6	-2219.4	33.5
1046	nodo 33 (11)	8.90	-6.63	-245.22	-1453.1	-1844.0	18.4
1047	nodo 33 (12)	8.89	-7.02	-246.16	-1516.4	-1856.2	13.8
1048	nodo 33 (13)	0.08	8.26	-209.63	692.7	-1832.8	56.0
1049	nodo 33 (14)	0.66	5.46	-210.77	285.6	-1925.3	52.3
1050	nodo 33 (15)	-2.80	8.20	-200.35	695.1	-1332.6	40.2
1051	nodo 33 (16)	-2.21	5.40	-201.49	287.9	-1425.1	36.4
1052	nodo 33 (17)	0.05	6.96	-212.77	481.7	-1873.4	41.0
1053	nodo 33 (18)	0.63	4.16	-213.91	74.5	-1965.9	37.2
1054	nodo 33 (19)	-2.83	6.91	-203.49	484.1	-1373.3	25.2
1055	nodo 33 (20)	-2.25	4.10	-204.63	76.9	-1465.8	21.4
1056	nodo 33 (21)	-4.58	6.40	-200.70	459.9	-231.8	-2.1
1057	nodo 33 (22)	-4.59	6.02	-201.64	396.6	-244.0	-6.6
1058	nodo 33 (23)	-2.64	2.51	-210.48	-88.0	131.4	-21.8
1059	nodo 33 (24)	-2.65	2.12	-211.42	-151.3	119.2	-26.3
1060	nodo 33 (25)	-2.63	-2.93	-204.51	-897.4	-540.1	-14.7
1061	nodo 33 (26)	-2.64	-3.32	-205.45	-960.7	-552.3	-19.2
1062	nodo 33 (27)	-0.69	-6.83	-214.29	-1445.2	-176.9	-34.4
1063	nodo 33 (28)	-0.70	-7.22	-215.23	-1508.5	-189.1	-38.9
1064	nodo 33 (29)	6.56	-4.72	-242.23	-1133.4	-622.3	-9.6
1065	nodo 33 (30)	7.14	-7.52	-243.37	-1540.6	-714.7	-13.4
1066	nodo 33 (31)	3.68	-4.78	-232.95	-1131.1	-122.1	-25.5
1067	nodo 33 (32)	4.26	-7.58	-234.09	-1538.2	-214.6	-29.3
1068	nodo 33 (33)	6.53	-6.02	-245.37	-1344.5	-662.9	-24.7
1069	nodo 33 (34)	7.11	-8.82	-246.51	-1751.7	-755.4	-28.5
1070	nodo 33 (35)	3.65	-6.08	-236.09	-1342.1	-162.8	-40.5
1071	nodo 33 (36)	4.23	-8.88	-237.23	-1749.3	-255.2	-44.3
1072	nodo 33 (37)	2.14	-0.26	-230.74	-531.5	-1066.4	5.4
1073	nodo 33 (38)	2.18	-0.28	-233.06	-537.5	-1077.0	5.3
1074	nodo 33 (39)	2.17	-0.28	-232.67	-536.5	-1075.2	5.3
1075	nodo 33 (40)	2.25	-0.30	-231.09	-537.4	-1084.2	5.7
1076	nodo 33 (41)	2.04	-0.24	-225.63	-522.0	-1035.1	5.5
1077	nodo 33 (42)	2.03	-0.26	-223.89	-522.9	-1024.5	5.5
1078	nodo 33 (43)	2.01	-0.25	-222.96	-520.4	-1020.3	5.5
1079	nodo 33 (44)	2.05	-0.27	-223.08	-522.4	-1026.2	5.6
1080	nodo 33 (45)	2.01	-0.25	-222.96	-520.4	-1020.3	5.5

1081	nodo 34 (1)	-2.12	2.03	-523.70	68.4	-37.1	15.5
1082	nodo 34 (2)	-1.97	1.90	-506.48	54.8	-45.7	15.3
1083	nodo 34 (3)	-1.96	1.89	-505.86	51.8	-47.2	15.3
1084	nodo 34 (4)	-1.79	1.74	-502.25	22.1	-78.9	15.7
1085	nodo 34 (5)	0.70	5.07	-341.26	425.0	-338.4	53.8
1086	nodo 34 (6)	0.86	5.14	-340.25	446.9	-356.8	49.3
1087	nodo 34 (7)	2.33	2.74	-320.88	161.2	-585.7	35.9
1088	nodo 34 (8)	2.49	2.81	-319.87	183.1	-604.1	31.4
1089	nodo 34 (9)	3.27	4.82	-339.16	392.4	-788.5	40.8
1090	nodo 34 (10)	3.43	4.88	-338.16	414.3	-806.9	36.3
1091	nodo 34 (11)	4.90	2.49	-318.78	128.7	-1035.8	23.0
1092	nodo 34 (12)	5.06	2.56	-317.78	150.6	-1054.2	18.4
1093	nodo 34 (13)	-3.36	5.73	-384.57	483.0	249.1	58.1
1094	nodo 34 (14)	-2.59	5.65	-383.94	473.3	114.0	54.2
1095	nodo 34 (15)	-5.83	4.11	-400.94	300.7	621.9	43.3
1096	nodo 34 (16)	-5.05	4.04	-400.31	290.9	486.8	39.4
1097	nodo 34 (17)	-2.82	5.95	-381.22	556.1	187.7	43.0
1098	nodo 34 (18)	-2.05	5.88	-380.59	546.3	52.7	39.1
1099	nodo 34 (19)	-5.28	4.33	-397.59	373.7	560.5	28.2
1100	nodo 34 (20)	-4.51	4.26	-396.96	363.9	425.5	24.3
1101	nodo 34 (21)	-7.50	-0.32	-395.82	-182.9	904.4	4.4
1102	nodo 34 (22)	-7.34	-0.26	-394.81	-161.0	886.0	-0.1
1103	nodo 34 (23)	-5.87	-2.65	-375.44	-446.7	657.1	-13.5
1104	nodo 34 (24)	-5.71	-2.58	-374.43	-424.8	638.7	-18.0
1105	nodo 34 (25)	-4.93	-0.58	-393.72	-215.5	454.3	-8.6
1106	nodo 34 (26)	-4.77	-0.51	-392.72	-193.5	435.9	-13.1
1107	nodo 34 (27)	-3.30	-2.90	-373.34	-479.2	206.9	-26.4
1108	nodo 34 (28)	-3.14	-2.83	-372.34	-457.3	188.5	-31.0
1109	nodo 34 (29)	2.07	-2.02	-316.64	-396.2	-575.3	-1.5
1110	nodo 34 (30)	2.84	-2.10	-316.01	-406.0	-710.4	-5.4
1111	nodo 34 (31)	-0.39	-3.64	-333.01	-578.6	-202.5	-16.3
1112	nodo 34 (32)	0.38	-3.72	-332.38	-588.4	-337.5	-20.2
1113	nodo 34 (33)	2.61	-1.80	-313.28	-323.2	-636.7	-16.6
1114	nodo 34 (34)	3.39	-1.88	-312.66	-333.0	-771.7	-20.5
1115	nodo 34 (35)	0.15	-3.42	-329.65	-505.6	-263.8	-31.4
1116	nodo 34 (36)	0.92	-3.49	-329.02	-515.4	-398.9	-35.3
1117	nodo 34 (37)	-1.41	1.30	-367.99	18.3	-45.8	11.2
1118	nodo 34 (38)	-1.42	1.35	-370.48	30.3	-40.0	11.2
1119	nodo 34 (39)	-1.42	1.34	-370.06	28.3	-41.0	11.2
1120	nodo 34 (40)	-1.31	1.24	-367.66	8.5	-62.1	11.5
1121	nodo 34 (41)	-1.39	1.24	-361.44	3.2	-49.7	11.1
1122	nodo 34 (42)	-1.36	1.22	-358.24	1.7	-50.8	11.1
1123	nodo 34 (43)	-1.36	1.20	-357.25	-3.1	-53.2	11.1
1124	nodo 34 (44)	-1.32	1.18	-357.14	-6.3	-58.6	11.2
1125	nodo 34 (45)	-1.36	1.20	-357.25	-3.1	-53.2	11.1
1126	nodo 35 (1)	-0.80	2.18	-480.24	34.0	-425.3	9.8
1127	nodo 35 (2)	-0.71	2.05	-465.04	21.8	-417.9	9.8
1128	nodo 35 (3)	-0.71	2.05	-464.42	19.6	-417.7	9.9
1129	nodo 35 (4)	-0.57	1.92	-461.11	-4.9	-441.2	10.4
1130	nodo 35 (5)	1.49	5.77	-367.29	428.3	-598.7	51.5
1131	nodo 35 (6)	1.78	5.65	-366.11	419.6	-639.3	46.9
1132	nodo 35 (7)	3.26	3.15	-344.00	162.1	-872.4	32.5
1133	nodo 35 (8)	3.54	3.03	-342.82	153.3	-913.0	28.0
1134	nodo 35 (9)	4.35	5.63	-364.90	-202.6	-1104.8	39.0
1135	nodo 35 (10)	4.63	5.51	-363.72	-211.4	-1145.4	34.4
1136	nodo 35 (11)	6.12	3.02	-341.61	-468.9	-1378.6	20.1
1137	nodo 35 (12)	6.40	2.90	-340.43	-477.6	-1419.2	15.5

1138	nodo 35 (13)	-2.93	6.77	-376.36	524.5	71.7	56.5
1139	nodo 35 (14)	-2.07	6.72	-375.64	335.2	-80.1	52.8
1140	nodo 35 (15)	-5.53	4.93	-360.37	521.1	483.9	41.1
1141	nodo 35 (16)	-4.67	4.89	-359.66	331.9	332.0	37.4
1142	nodo 35 (17)	-1.99	6.37	-372.42	495.3	-63.6	41.2
1143	nodo 35 (18)	-1.13	6.33	-371.70	306.0	-215.5	37.5
1144	nodo 35 (19)	-4.59	4.53	-356.43	491.9	348.5	25.8
1145	nodo 35 (20)	-3.73	4.49	-355.72	302.7	196.7	22.1
1146	nodo 35 (21)	-7.18	-0.36	-314.01	417.2	775.1	0.0
1147	nodo 35 (22)	-6.89	-0.48	-312.83	408.4	734.5	-4.6
1148	nodo 35 (23)	-5.41	-2.98	-290.71	150.9	501.4	-18.9
1149	nodo 35 (24)	-5.13	-3.10	-289.53	142.2	460.8	-23.5
1150	nodo 35 (25)	-4.32	-0.50	-311.62	-213.7	269.0	-12.4
1151	nodo 35 (26)	-4.04	-0.62	-310.44	-222.5	228.4	-17.0
1152	nodo 35 (27)	-2.56	-3.11	-288.33	-480.0	-4.8	-31.4
1153	nodo 35 (28)	-2.27	-3.23	-287.15	-488.8	-45.4	-36.0
1154	nodo 35 (29)	2.95	-1.95	-298.72	-363.1	-840.7	-6.6
1155	nodo 35 (30)	3.81	-1.99	-298.00	-552.4	-992.6	-10.3
1156	nodo 35 (31)	0.35	-3.79	-282.73	-366.4	-428.6	-22.0
1157	nodo 35 (32)	1.21	-3.83	-282.02	-555.7	-580.4	-25.7
1158	nodo 35 (33)	3.89	-2.35	-294.78	-392.3	-976.1	-21.9
1159	nodo 35 (34)	4.75	-2.39	-294.06	-581.6	-1127.9	-25.6
1160	nodo 35 (35)	1.29	-4.19	-278.79	-395.6	-563.9	-37.3
1161	nodo 35 (36)	2.15	-4.23	-278.08	-584.9	-715.8	-41.0
1162	nodo 35 (37)	-0.51	1.43	-337.41	-2.1	-309.9	7.3
1163	nodo 35 (38)	-0.51	1.46	-339.88	7.0	-310.7	7.2
1164	nodo 35 (39)	-0.51	1.46	-339.47	5.5	-310.5	7.2
1165	nodo 35 (40)	-0.41	1.37	-337.26	-10.9	-326.2	7.6
1166	nodo 35 (41)	-0.54	1.38	-331.19	-13.4	-302.0	7.4
1167	nodo 35 (42)	-0.52	1.36	-328.40	-14.9	-300.6	7.4
1168	nodo 35 (43)	-0.52	1.34	-327.41	-18.5	-300.3	7.4
1169	nodo 35 (44)	-0.49	1.32	-327.36	-21.4	-305.7	7.5
1170	nodo 35 (45)	-0.52	1.34	-327.41	-18.5	-300.3	7.4
1171	nodo 36 (1)	0.98	1.96	-400.09	-86.2	-929.2	5.3
1172	nodo 36 (2)	1.01	1.88	-388.21	-83.5	-907.4	5.7
1173	nodo 36 (3)	1.01	1.88	-387.61	-84.4	-906.2	5.8
1174	nodo 36 (4)	1.12	1.79	-384.83	-100.3	-923.1	6.3
1175	nodo 36 (5)	2.65	6.80	-310.40	506.2	-937.6	45.9
1176	nodo 36 (6)	2.92	6.47	-309.73	461.6	-969.1	41.6
1177	nodo 36 (7)	4.39	3.66	-289.76	178.8	-1206.3	28.4
1178	nodo 36 (8)	4.66	3.34	-289.08	134.2	-1237.8	24.1
1179	nodo 36 (9)	5.53	-0.77	-306.61	-343.3	-1440.7	33.4
1180	nodo 36 (10)	5.80	-1.10	-305.94	-387.8	-1472.1	29.1
1181	nodo 36 (11)	7.26	-3.91	-285.97	-670.6	-1709.3	15.9
1182	nodo 36 (12)	7.54	-4.23	-285.29	-715.2	-1740.8	11.6
1183	nodo 36 (13)	-1.69	8.14	-316.20	655.2	-289.7	50.1
1184	nodo 36 (14)	-0.82	5.87	-315.06	400.3	-440.6	46.4
1185	nodo 36 (15)	-4.26	8.10	-300.99	665.8	116.4	35.8
1186	nodo 36 (16)	-3.40	5.83	-299.85	410.9	-34.5	32.0
1187	nodo 36 (17)	-0.78	7.06	-313.95	506.6	-394.6	35.9
1188	nodo 36 (18)	0.09	4.79	-312.81	251.7	-545.5	32.1
1189	nodo 36 (19)	-3.35	7.02	-298.74	517.2	11.6	21.5
1190	nodo 36 (20)	-2.49	4.75	-297.60	262.3	-139.3	17.8
1191	nodo 36 (21)	-5.93	6.67	-259.69	541.5	416.2	-2.0
1192	nodo 36 (22)	-5.66	6.35	-259.02	496.9	384.7	-6.3
1193	nodo 36 (23)	-4.19	3.54	-239.05	214.2	147.5	-19.5
1194	nodo 36 (24)	-3.92	3.21	-238.38	169.6	116.1	-23.7

1195	nodo 36 (25)	-3.05	-0.89	-255.90	-307.9	-86.8	-14.5
1196	nodo 36 (26)	-2.78	-1.22	-255.23	-352.5	-118.3	-18.8
1197	nodo 36 (27)	-1.32	-4.03	-235.26	-635.3	-355.5	-32.0
1198	nodo 36 (28)	-1.04	-4.35	-234.58	-679.8	-386.9	-36.3
1199	nodo 36 (29)	4.10	-2.31	-247.39	-436.0	-1185.3	-8.1
1200	nodo 36 (30)	4.96	-4.58	-246.25	-690.8	-1336.2	-11.9
1201	nodo 36 (31)	1.52	-2.35	-232.17	-425.4	-779.1	-22.5
1202	nodo 36 (32)	2.39	-4.62	-231.03	-680.2	-930.0	-26.3
1203	nodo 36 (33)	5.01	-3.39	-245.14	-584.6	-1290.1	-22.4
1204	nodo 36 (34)	5.87	-5.66	-244.00	-839.4	-1441.0	-26.2
1205	nodo 36 (35)	2.43	-3.43	-229.92	-574.0	-884.0	-36.8
1206	nodo 36 (36)	3.30	-5.70	-228.79	-828.8	-1034.9	-40.5
1207	nodo 36 (37)	0.73	1.32	-280.95	-74.4	-663.5	4.2
1208	nodo 36 (38)	0.75	1.34	-283.35	-70.5	-668.3	4.1
1209	nodo 36 (39)	0.75	1.33	-282.95	-71.2	-667.5	4.1
1210	nodo 36 (40)	0.83	1.27	-281.10	-81.7	-678.8	4.5
1211	nodo 36 (41)	0.68	1.30	-275.39	-76.4	-647.7	4.3
1212	nodo 36 (42)	0.69	1.29	-273.25	-75.5	-643.8	4.4
1213	nodo 36 (43)	0.68	1.28	-272.29	-77.0	-641.9	4.5
1214	nodo 36 (44)	0.71	1.27	-272.34	-79.5	-647.0	4.5
1215	nodo 36 (45)	0.68	1.28	-272.29	-77.0	-641.9	4.5

Spostamenti globali palificata:

Cond.	Commento	Ux [cm]	Uy [cm]	Uz [cm]	Rx [°]	Ry [°]	Rz [°]
1	nodo 1 (1)	-0.00	0.02	-0.13	-0.00	0.00	0.00
2	nodo 1 (2)	-0.00	0.01	-0.13	-0.00	0.00	0.00
3	nodo 1 (3)	-0.00	0.01	-0.13	-0.00	0.00	0.00
4	nodo 1 (4)	-0.00	0.01	-0.13	-0.00	0.00	0.00
5	nodo 1 (5)	0.05	-0.00	-0.07	-0.00	0.00	0.00
6	nodo 1 (6)	0.05	-0.00	-0.08	-0.00	0.00	0.00
7	nodo 1 (7)	0.03	-0.01	-0.08	-0.00	0.00	0.00
8	nodo 1 (8)	0.03	-0.01	-0.08	-0.00	0.00	0.00
9	nodo 1 (9)	0.04	0.00	-0.08	-0.00	0.00	0.00
10	nodo 1 (10)	0.03	0.00	-0.08	-0.00	0.00	0.00
11	nodo 1 (11)	0.02	-0.01	-0.08	-0.00	0.00	0.00
12	nodo 1 (12)	0.02	-0.01	-0.09	-0.00	0.00	0.00
13	nodo 1 (13)	0.04	0.02	-0.07	-0.00	0.00	0.00
14	nodo 1 (14)	0.04	0.02	-0.07	-0.00	0.00	0.00
15	nodo 1 (15)	0.02	0.03	-0.08	-0.00	0.00	0.00
16	nodo 1 (16)	0.02	0.03	-0.08	-0.00	0.00	0.00
17	nodo 1 (17)	0.04	0.02	-0.07	-0.00	0.00	0.00
18	nodo 1 (18)	0.03	0.03	-0.08	-0.00	0.00	0.00
19	nodo 1 (19)	0.02	0.03	-0.08	-0.00	0.00	0.00
20	nodo 1 (20)	0.01	0.03	-0.08	-0.00	0.00	0.00
21	nodo 1 (21)	-0.02	0.03	-0.10	-0.00	-0.00	0.00
22	nodo 1 (22)	-0.02	0.03	-0.10	-0.00	-0.00	0.00
23	nodo 1 (23)	-0.04	0.02	-0.10	-0.00	-0.00	0.00
24	nodo 1 (24)	-0.04	0.02	-0.10	-0.00	-0.00	-0.00
25	nodo 1 (25)	-0.03	0.03	-0.10	-0.00	-0.00	0.00
26	nodo 1 (26)	-0.03	0.03	-0.10	-0.00	-0.00	-0.00
27	nodo 1 (27)	-0.05	0.02	-0.11	-0.00	-0.00	-0.00
28	nodo 1 (28)	-0.05	0.02	-0.11	-0.00	-0.00	-0.00

29	nodo 1 (29)	-0.02	-0.01	-0.10	-0.00	-0.00	0.00
30	nodo 1 (30)	-0.02	-0.01	-0.10	-0.00	-0.00	0.00
31	nodo 1 (31)	-0.04	-0.00	-0.11	-0.00	-0.00	-0.00
32	nodo 1 (32)	-0.04	-0.00	-0.11	-0.00	-0.00	-0.00
33	nodo 1 (33)	-0.02	-0.01	-0.10	-0.00	-0.00	-0.00
34	nodo 1 (34)	-0.03	-0.01	-0.10	-0.00	-0.00	-0.00
35	nodo 1 (35)	-0.04	-0.00	-0.11	-0.00	-0.00	-0.00
36	nodo 1 (36)	-0.05	0.00	-0.11	-0.00	-0.00	-0.00
37	nodo 1 (37)	-0.00	0.01	-0.09	-0.00	0.00	0.00
38	nodo 1 (38)	-0.00	0.01	-0.09	-0.00	0.00	0.00
39	nodo 1 (39)	-0.00	0.01	-0.09	-0.00	0.00	0.00
40	nodo 1 (40)	-0.00	0.01	-0.09	-0.00	0.00	0.00
41	nodo 1 (41)	-0.00	0.01	-0.09	-0.00	-0.00	0.00
42	nodo 1 (42)	-0.00	0.01	-0.09	-0.00	-0.00	0.00
43	nodo 1 (43)	-0.00	0.01	-0.09	-0.00	-0.00	0.00
44	nodo 1 (44)	-0.00	0.01	-0.09	-0.00	-0.00	0.00
45	nodo 1 (45)	-0.00	0.01	-0.09	-0.00	-0.00	0.00
46	nodo 2 (1)	-0.01	0.02	-0.13	-0.00	-0.00	0.00
47	nodo 2 (2)	-0.01	0.02	-0.12	-0.00	-0.00	0.00
48	nodo 2 (3)	-0.01	0.02	-0.12	-0.00	-0.00	0.00
49	nodo 2 (4)	-0.01	0.02	-0.12	-0.00	-0.00	0.00
50	nodo 2 (5)	0.04	0.00	-0.09	-0.00	0.00	0.00
51	nodo 2 (6)	0.04	0.01	-0.09	-0.00	0.00	0.00
52	nodo 2 (7)	0.03	-0.01	-0.09	-0.00	-0.00	0.00
53	nodo 2 (8)	0.02	-0.01	-0.09	-0.00	-0.00	0.00
54	nodo 2 (9)	0.03	0.01	-0.09	-0.00	-0.00	0.00
55	nodo 2 (10)	0.03	0.01	-0.09	-0.00	-0.00	0.00
56	nodo 2 (11)	0.01	-0.01	-0.09	-0.00	-0.00	0.00
57	nodo 2 (12)	0.01	-0.00	-0.09	-0.00	-0.00	0.00
58	nodo 2 (13)	0.04	0.03	-0.08	-0.00	0.00	0.00
59	nodo 2 (14)	0.04	0.03	-0.08	-0.00	0.00	0.00
60	nodo 2 (15)	0.02	0.04	-0.08	-0.00	-0.00	0.00
61	nodo 2 (16)	0.02	0.04	-0.08	-0.00	-0.00	0.00
62	nodo 2 (17)	0.03	0.03	-0.08	-0.00	-0.00	0.00
63	nodo 2 (18)	0.03	0.03	-0.08	-0.00	-0.00	0.00
64	nodo 2 (19)	0.01	0.04	-0.08	-0.00	-0.00	0.00
65	nodo 2 (20)	0.01	0.04	-0.08	-0.00	-0.00	0.00
66	nodo 2 (21)	-0.02	0.03	-0.08	-0.00	-0.00	0.00
67	nodo 2 (22)	-0.02	0.03	-0.08	-0.00	-0.00	0.00
68	nodo 2 (23)	-0.04	0.02	-0.08	-0.00	-0.00	-0.00
69	nodo 2 (24)	-0.04	0.02	-0.08	-0.00	-0.00	-0.00
70	nodo 2 (25)	-0.03	0.04	-0.08	-0.00	-0.00	-0.00
71	nodo 2 (26)	-0.03	0.04	-0.08	-0.00	-0.00	-0.00
72	nodo 2 (27)	-0.05	0.02	-0.08	-0.00	-0.00	-0.00
73	nodo 2 (28)	-0.05	0.03	-0.08	-0.00	-0.00	-0.00
74	nodo 2 (29)	-0.02	-0.01	-0.09	-0.00	-0.00	0.00
75	nodo 2 (30)	-0.02	-0.01	-0.09	-0.00	-0.00	0.00
76	nodo 2 (31)	-0.04	-0.00	-0.09	-0.00	-0.00	-0.00
77	nodo 2 (32)	-0.04	-0.00	-0.09	-0.00	-0.00	-0.00
78	nodo 2 (33)	-0.02	-0.01	-0.09	-0.00	-0.00	-0.00
79	nodo 2 (34)	-0.03	-0.01	-0.09	-0.00	-0.00	-0.00
80	nodo 2 (35)	-0.04	0.00	-0.09	-0.00	-0.00	-0.00
81	nodo 2 (36)	-0.05	0.00	-0.09	-0.00	-0.00	-0.00
82	nodo 2 (37)	-0.01	0.02	-0.09	-0.00	-0.00	0.00
83	nodo 2 (38)	-0.01	0.02	-0.09	-0.00	-0.00	0.00
84	nodo 2 (39)	-0.01	0.02	-0.09	-0.00	-0.00	0.00
85	nodo 2 (40)	-0.00	0.02	-0.09	-0.00	-0.00	0.00

86	nodo 2 (41)	-0.01	0.02	-0.09	-0.00	-0.00	0.00
87	nodo 2 (42)	-0.01	0.02	-0.09	-0.00	-0.00	0.00
88	nodo 2 (43)	-0.01	0.02	-0.09	-0.00	-0.00	0.00
89	nodo 2 (44)	-0.01	0.02	-0.09	-0.00	-0.00	0.00
90	nodo 2 (45)	-0.01	0.02	-0.09	-0.00	-0.00	0.00
91	nodo 3 (1)	-0.00	0.03	-0.12	-0.00	0.00	0.00
92	nodo 3 (2)	-0.00	0.03	-0.12	-0.00	0.00	0.00
93	nodo 3 (3)	-0.00	0.03	-0.12	-0.00	0.00	0.00
94	nodo 3 (4)	0.00	0.03	-0.12	-0.00	0.00	0.00
95	nodo 3 (5)	0.04	0.04	-0.09	-0.00	-0.00	0.00
96	nodo 3 (6)	0.04	0.04	-0.09	-0.00	-0.00	0.00
97	nodo 3 (7)	0.03	0.03	-0.10	-0.00	0.00	0.00
98	nodo 3 (8)	0.03	0.03	-0.10	-0.00	0.00	0.00
99	nodo 3 (9)	0.03	0.01	-0.09	-0.00	0.00	0.00
100	nodo 3 (10)	0.03	0.01	-0.09	-0.00	0.00	0.00
101	nodo 3 (11)	0.02	-0.00	-0.09	-0.00	0.00	0.00
102	nodo 3 (12)	0.02	-0.00	-0.09	-0.00	0.00	0.00
103	nodo 3 (13)	0.04	0.05	-0.08	-0.00	-0.00	0.00
104	nodo 3 (14)	0.03	0.04	-0.08	-0.00	-0.00	0.00
105	nodo 3 (15)	0.02	0.05	-0.08	-0.00	0.00	0.00
106	nodo 3 (16)	0.02	0.04	-0.08	-0.00	0.00	0.00
107	nodo 3 (17)	0.03	0.05	-0.08	-0.00	-0.00	0.00
108	nodo 3 (18)	0.03	0.04	-0.08	-0.00	0.00	0.00
109	nodo 3 (19)	0.02	0.05	-0.08	-0.00	0.00	0.00
110	nodo 3 (20)	0.01	0.04	-0.08	-0.00	0.00	0.00
111	nodo 3 (21)	-0.02	0.04	-0.08	-0.00	0.00	0.00
112	nodo 3 (22)	-0.02	0.04	-0.08	-0.00	0.00	0.00
113	nodo 3 (23)	-0.03	0.03	-0.08	-0.00	0.00	-0.00
114	nodo 3 (24)	-0.03	0.03	-0.08	-0.00	0.00	-0.00
115	nodo 3 (25)	-0.03	0.01	-0.07	-0.00	0.00	-0.00
116	nodo 3 (26)	-0.03	0.01	-0.07	-0.00	0.00	-0.00
117	nodo 3 (27)	-0.04	-0.00	-0.08	-0.00	0.00	-0.00
118	nodo 3 (28)	-0.04	-0.00	-0.08	-0.00	0.00	-0.00
119	nodo 3 (29)	-0.01	0.00	-0.09	-0.00	0.00	0.00
120	nodo 3 (30)	-0.02	-0.01	-0.09	-0.00	0.00	0.00
121	nodo 3 (31)	-0.03	0.00	-0.09	-0.00	0.00	-0.00
122	nodo 3 (32)	-0.03	-0.01	-0.09	-0.00	0.00	-0.00
123	nodo 3 (33)	-0.02	0.00	-0.09	-0.00	0.00	-0.00
124	nodo 3 (34)	-0.02	-0.01	-0.09	-0.00	0.00	-0.00
125	nodo 3 (35)	-0.03	0.00	-0.09	-0.00	0.00	-0.00
126	nodo 3 (36)	-0.04	-0.01	-0.09	-0.00	0.00	-0.00
127	nodo 3 (37)	-0.00	0.02	-0.09	-0.00	0.00	0.00
128	nodo 3 (38)	-0.00	0.02	-0.09	-0.00	0.00	0.00
129	nodo 3 (39)	-0.00	0.02	-0.09	-0.00	0.00	0.00
130	nodo 3 (40)	-0.00	0.02	-0.09	-0.00	0.00	0.00
131	nodo 3 (41)	-0.00	0.02	-0.08	-0.00	0.00	0.00
132	nodo 3 (42)	-0.00	0.02	-0.08	-0.00	0.00	0.00
133	nodo 3 (43)	-0.00	0.02	-0.08	-0.00	0.00	0.00
134	nodo 3 (44)	-0.00	0.02	-0.08	-0.00	0.00	0.00
135	nodo 3 (45)	-0.00	0.02	-0.08	-0.00	0.00	0.00
136	nodo 5 (1)	-0.01	0.02	-0.16	-0.00	-0.00	0.00
137	nodo 5 (2)	-0.01	0.01	-0.15	-0.00	-0.00	0.00
138	nodo 5 (3)	-0.01	0.01	-0.15	-0.00	-0.00	0.00
139	nodo 5 (4)	-0.01	0.01	-0.15	-0.00	-0.00	0.00
140	nodo 5 (5)	0.04	-0.00	-0.09	-0.00	0.00	0.00
141	nodo 5 (6)	0.05	-0.00	-0.09	-0.00	0.00	0.00
142	nodo 5 (7)	0.01	-0.01	-0.10	-0.00	-0.00	0.00

143	nodo 5 (8)	0.02	-0.01	-0.10	-0.00	0.00	0.00
144	nodo 5 (9)	0.03	0.00	-0.09	-0.00	0.00	0.00
145	nodo 5 (10)	0.04	0.00	-0.09	-0.00	0.00	0.00
146	nodo 5 (11)	0.00	-0.01	-0.10	-0.00	-0.00	0.00
147	nodo 5 (12)	0.01	-0.01	-0.10	-0.00	0.00	0.00
148	nodo 5 (13)	0.03	0.02	-0.09	-0.00	0.00	0.00
149	nodo 5 (14)	0.03	0.02	-0.09	-0.00	0.00	0.00
150	nodo 5 (15)	0.01	0.03	-0.10	-0.00	0.00	0.00
151	nodo 5 (16)	0.01	0.03	-0.10	-0.00	0.00	0.00
152	nodo 5 (17)	0.07	0.02	-0.09	-0.00	0.00	0.00
153	nodo 5 (18)	0.07	0.02	-0.09	-0.00	0.00	0.00
154	nodo 5 (19)	0.05	0.03	-0.10	-0.00	0.00	0.00
155	nodo 5 (20)	0.05	0.03	-0.10	-0.00	0.00	0.00
156	nodo 5 (21)	-0.02	0.03	-0.11	-0.00	-0.00	0.00
157	nodo 5 (22)	-0.01	0.03	-0.11	-0.00	0.00	0.00
158	nodo 5 (23)	-0.05	0.02	-0.12	-0.00	-0.00	0.00
159	nodo 5 (24)	-0.04	0.02	-0.12	-0.00	-0.00	-0.00
160	nodo 5 (25)	-0.03	0.03	-0.12	-0.00	-0.00	-0.00
161	nodo 5 (26)	-0.02	0.03	-0.12	-0.00	0.00	-0.00
162	nodo 5 (27)	-0.06	0.02	-0.12	-0.00	-0.00	-0.00
163	nodo 5 (28)	-0.05	0.02	-0.12	-0.00	-0.00	-0.00
164	nodo 5 (29)	-0.06	-0.01	-0.11	-0.00	-0.00	0.00
165	nodo 5 (30)	-0.06	-0.01	-0.12	-0.00	-0.00	0.00
166	nodo 5 (31)	-0.08	-0.00	-0.12	-0.00	-0.00	-0.00
167	nodo 5 (32)	-0.08	-0.00	-0.12	-0.00	-0.00	-0.00
168	nodo 5 (33)	-0.02	-0.01	-0.12	-0.00	-0.00	-0.00
169	nodo 5 (34)	-0.03	-0.01	-0.12	-0.00	-0.00	-0.00
170	nodo 5 (35)	-0.04	-0.00	-0.12	-0.00	-0.00	-0.00
171	nodo 5 (36)	-0.05	0.00	-0.12	-0.00	-0.00	-0.00
172	nodo 5 (37)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
173	nodo 5 (38)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
174	nodo 5 (39)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
175	nodo 5 (40)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
176	nodo 5 (41)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
177	nodo 5 (42)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
178	nodo 5 (43)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
179	nodo 5 (44)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
180	nodo 5 (45)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
181	nodo 6 (1)	-0.01	0.02	-0.15	-0.00	-0.00	0.00
182	nodo 6 (2)	-0.01	0.02	-0.15	-0.00	-0.00	0.00
183	nodo 6 (3)	-0.01	0.02	-0.15	-0.00	-0.00	0.00
184	nodo 6 (4)	-0.01	0.02	-0.15	-0.00	-0.00	0.00
185	nodo 6 (5)	0.04	0.00	-0.11	-0.00	0.00	0.00
186	nodo 6 (6)	0.04	0.00	-0.11	-0.00	0.00	0.00
187	nodo 6 (7)	0.02	-0.01	-0.11	-0.00	0.00	0.00
188	nodo 6 (8)	0.02	-0.01	-0.11	-0.00	0.00	0.00
189	nodo 6 (9)	0.03	0.01	-0.11	-0.00	0.00	0.00
190	nodo 6 (10)	0.03	0.01	-0.11	-0.00	0.00	0.00
191	nodo 6 (11)	0.01	-0.01	-0.11	-0.00	-0.00	0.00
192	nodo 6 (12)	0.01	-0.00	-0.11	-0.00	-0.00	0.00
193	nodo 6 (13)	0.03	0.03	-0.10	-0.00	0.00	0.00
194	nodo 6 (14)	0.03	0.03	-0.10	-0.00	0.00	0.00
195	nodo 6 (15)	0.01	0.04	-0.10	-0.00	0.00	0.00
196	nodo 6 (16)	0.01	0.04	-0.10	-0.00	0.00	0.00
197	nodo 6 (17)	0.03	0.03	-0.10	-0.00	0.00	0.00
198	nodo 6 (18)	0.03	0.03	-0.10	-0.00	0.00	0.00
199	nodo 6 (19)	0.01	0.04	-0.10	-0.00	-0.00	0.00

200	nodo 6 (20)	0.01	0.04	-0.10	-0.00	-0.00	0.00
201	nodo 6 (21)	-0.02	0.03	-0.10	-0.00	-0.00	0.00
202	nodo 6 (22)	-0.03	0.03	-0.10	-0.00	-0.00	0.00
203	nodo 6 (23)	-0.04	0.02	-0.10	-0.00	-0.00	-0.00
204	nodo 6 (24)	-0.04	0.02	-0.10	-0.00	-0.00	-0.00
205	nodo 6 (25)	-0.03	0.03	-0.10	-0.00	-0.00	-0.00
206	nodo 6 (26)	-0.03	0.04	-0.10	-0.00	-0.00	-0.00
207	nodo 6 (27)	-0.05	0.02	-0.10	-0.00	-0.00	-0.00
208	nodo 6 (28)	-0.05	0.02	-0.10	-0.00	-0.00	-0.00
209	nodo 6 (29)	-0.02	-0.01	-0.11	-0.00	-0.00	0.00
210	nodo 6 (30)	-0.02	-0.01	-0.11	-0.00	-0.00	0.00
211	nodo 6 (31)	-0.04	-0.00	-0.11	-0.00	-0.00	-0.00
212	nodo 6 (32)	-0.04	-0.00	-0.11	-0.00	-0.00	-0.00
213	nodo 6 (33)	-0.02	-0.01	-0.11	-0.00	-0.00	-0.00
214	nodo 6 (34)	-0.03	-0.01	-0.11	-0.00	-0.00	-0.00
215	nodo 6 (35)	-0.04	0.00	-0.11	-0.00	-0.00	-0.00
216	nodo 6 (36)	-0.04	0.00	-0.11	-0.00	-0.00	-0.00
217	nodo 6 (37)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
218	nodo 6 (38)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
219	nodo 6 (39)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
220	nodo 6 (40)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
221	nodo 6 (41)	-0.01	0.01	-0.11	-0.00	-0.00	0.00
222	nodo 6 (42)	-0.01	0.01	-0.10	-0.00	-0.00	0.00
223	nodo 6 (43)	-0.01	0.01	-0.10	-0.00	-0.00	0.00
224	nodo 6 (44)	-0.01	0.01	-0.10	-0.00	-0.00	0.00
225	nodo 6 (45)	-0.01	0.01	-0.10	-0.00	-0.00	0.00
226	nodo 7 (1)	-0.01	0.02	-0.15	-0.00	0.00	0.00
227	nodo 7 (2)	-0.00	0.02	-0.15	-0.00	0.00	0.00
228	nodo 7 (3)	-0.00	0.02	-0.15	-0.00	0.00	0.00
229	nodo 7 (4)	-0.00	0.02	-0.15	-0.00	0.00	0.00
230	nodo 7 (5)	0.04	0.04	-0.12	-0.00	-0.00	0.00
231	nodo 7 (6)	0.03	0.04	-0.12	-0.00	-0.00	0.00
232	nodo 7 (7)	0.02	0.02	-0.11	-0.00	0.00	0.00
233	nodo 7 (8)	0.02	0.02	-0.11	-0.00	0.00	0.00
234	nodo 7 (9)	0.03	0.01	-0.11	-0.00	0.00	0.00
235	nodo 7 (10)	0.03	0.01	-0.11	-0.00	0.00	0.00
236	nodo 7 (11)	0.01	-0.01	-0.11	-0.00	0.00	0.00
237	nodo 7 (12)	0.01	-0.01	-0.11	-0.00	0.00	0.00
238	nodo 7 (13)	0.03	0.04	-0.11	-0.00	0.00	0.00
239	nodo 7 (14)	0.03	0.03	-0.11	-0.00	0.00	0.00
240	nodo 7 (15)	0.02	0.04	-0.11	-0.00	0.00	0.00
241	nodo 7 (16)	0.01	0.03	-0.11	-0.00	0.00	0.00
242	nodo 7 (17)	0.03	0.04	-0.11	-0.00	0.00	0.00
243	nodo 7 (18)	0.03	0.03	-0.11	-0.00	0.00	0.00
244	nodo 7 (19)	0.01	0.04	-0.11	-0.00	0.00	0.00
245	nodo 7 (20)	0.01	0.03	-0.11	-0.00	0.00	0.00
246	nodo 7 (21)	-0.02	0.04	-0.10	-0.00	0.00	0.00
247	nodo 7 (22)	-0.02	0.04	-0.10	-0.00	0.00	0.00
248	nodo 7 (23)	-0.03	0.02	-0.10	-0.00	0.00	-0.00
249	nodo 7 (24)	-0.03	0.02	-0.10	-0.00	0.00	-0.00
250	nodo 7 (25)	-0.02	0.01	-0.10	-0.00	0.00	-0.00
251	nodo 7 (26)	-0.02	0.01	-0.10	-0.00	0.00	-0.00
252	nodo 7 (27)	-0.04	-0.01	-0.10	-0.00	0.00	-0.00
253	nodo 7 (28)	-0.04	-0.01	-0.10	-0.00	0.00	-0.00
254	nodo 7 (29)	-0.01	-0.00	-0.10	-0.00	0.00	0.00
255	nodo 7 (30)	-0.02	-0.01	-0.10	-0.00	0.00	0.00
256	nodo 7 (31)	-0.03	-0.00	-0.10	-0.00	0.00	-0.00

257	nodo 7 (32)	-0.03	-0.01	-0.10	-0.00	0.00	-0.00
258	nodo 7 (33)	-0.02	-0.00	-0.10	-0.00	0.00	-0.00
259	nodo 7 (34)	-0.02	-0.01	-0.10	-0.00	0.00	-0.00
260	nodo 7 (35)	-0.03	-0.00	-0.10	-0.00	0.00	-0.00
261	nodo 7 (36)	-0.03	-0.01	-0.10	-0.00	0.00	-0.00
262	nodo 7 (37)	-0.00	0.02	-0.11	-0.00	0.00	0.00
263	nodo 7 (38)	-0.00	0.02	-0.11	-0.00	0.00	0.00
264	nodo 7 (39)	-0.00	0.02	-0.11	-0.00	0.00	0.00
265	nodo 7 (40)	-0.00	0.02	-0.11	-0.00	0.00	0.00
266	nodo 7 (41)	-0.00	0.02	-0.10	-0.00	0.00	0.00
267	nodo 7 (42)	-0.00	0.01	-0.10	-0.00	0.00	0.00
268	nodo 7 (43)	-0.00	0.01	-0.10	-0.00	0.00	0.00
269	nodo 7 (44)	-0.00	0.01	-0.10	-0.00	0.00	0.00
270	nodo 7 (45)	-0.00	0.01	-0.10	-0.00	0.00	0.00
271	nodo 9 (1)	-0.01	0.02	-0.18	-0.00	0.00	0.00
272	nodo 9 (2)	-0.01	0.01	-0.17	-0.00	0.00	0.00
273	nodo 9 (3)	-0.01	0.01	-0.17	-0.00	0.00	0.00
274	nodo 9 (4)	-0.01	0.01	-0.17	-0.00	-0.00	0.00
275	nodo 9 (5)	0.04	-0.00	-0.11	-0.00	0.00	0.00
276	nodo 9 (6)	0.02	-0.00	-0.11	-0.00	0.00	0.00
277	nodo 9 (7)	0.03	-0.01	-0.11	-0.00	0.00	0.00
278	nodo 9 (8)	0.01	-0.01	-0.11	-0.00	-0.00	0.00
279	nodo 9 (9)	0.04	0.00	-0.11	-0.00	0.00	0.00
280	nodo 9 (10)	0.01	0.00	-0.11	-0.00	0.00	0.00
281	nodo 9 (11)	0.03	-0.01	-0.11	-0.00	0.00	0.00
282	nodo 9 (12)	0.00	-0.01	-0.11	-0.00	-0.00	0.00
283	nodo 9 (13)	0.06	0.02	-0.11	-0.00	0.00	0.00
284	nodo 9 (14)	0.05	0.02	-0.11	-0.00	0.00	0.00
285	nodo 9 (15)	0.04	0.03	-0.12	-0.00	0.00	0.00
286	nodo 9 (16)	0.04	0.03	-0.12	-0.00	0.00	0.00
287	nodo 9 (17)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
288	nodo 9 (18)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
289	nodo 9 (19)	-0.04	0.03	-0.12	-0.00	-0.00	0.00
290	nodo 9 (20)	-0.04	0.03	-0.12	-0.00	-0.00	0.00
291	nodo 9 (21)	-0.02	0.03	-0.13	-0.00	0.00	0.00
292	nodo 9 (22)	-0.04	0.03	-0.13	-0.00	-0.00	0.00
293	nodo 9 (23)	-0.03	0.02	-0.14	-0.00	-0.00	-0.00
294	nodo 9 (24)	-0.05	0.02	-0.14	-0.00	-0.00	-0.00
295	nodo 9 (25)	-0.02	0.03	-0.13	-0.00	-0.00	-0.00
296	nodo 9 (26)	-0.05	0.03	-0.13	-0.00	-0.00	-0.00
297	nodo 9 (27)	-0.03	0.02	-0.14	-0.00	-0.00	-0.00
298	nodo 9 (28)	-0.06	0.02	-0.14	-0.00	-0.00	-0.00
299	nodo 9 (29)	0.02	-0.01	-0.13	-0.00	0.00	0.00
300	nodo 9 (30)	0.02	-0.01	-0.13	-0.00	0.00	0.00
301	nodo 9 (31)	0.01	-0.01	-0.14	-0.00	0.00	-0.00
302	nodo 9 (32)	0.00	-0.00	-0.14	-0.00	0.00	-0.00
303	nodo 9 (33)	-0.05	-0.01	-0.13	-0.00	-0.00	-0.00
304	nodo 9 (34)	-0.05	-0.01	-0.13	-0.00	-0.00	-0.00
305	nodo 9 (35)	-0.07	-0.00	-0.14	-0.00	-0.00	-0.00
306	nodo 9 (36)	-0.07	0.00	-0.14	-0.00	-0.00	-0.00
307	nodo 9 (37)	-0.01	0.01	-0.13	-0.00	-0.00	0.00
308	nodo 9 (38)	-0.01	0.01	-0.13	-0.00	-0.00	0.00
309	nodo 9 (39)	-0.01	0.01	-0.13	-0.00	-0.00	0.00
310	nodo 9 (40)	-0.01	0.01	-0.13	-0.00	-0.00	0.00
311	nodo 9 (41)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
312	nodo 9 (42)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
313	nodo 9 (43)	-0.01	0.01	-0.12	-0.00	-0.00	0.00

314	nodo 9 (44)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
315	nodo 9 (45)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
316	nodo 10 (1)	-0.02	0.02	-0.17	-0.00	-0.00	0.00
317	nodo 10 (2)	-0.01	0.02	-0.17	-0.00	-0.00	0.00
318	nodo 10 (3)	-0.01	0.02	-0.17	-0.00	-0.00	0.00
319	nodo 10 (4)	-0.01	0.02	-0.17	-0.00	-0.00	0.00
320	nodo 10 (5)	0.03	0.00	-0.12	-0.00	0.00	0.00
321	nodo 10 (6)	0.04	0.00	-0.12	-0.00	0.00	0.00
322	nodo 10 (7)	-0.00	-0.01	-0.12	-0.00	-0.00	0.00
323	nodo 10 (8)	0.01	-0.01	-0.12	-0.00	-0.00	0.00
324	nodo 10 (9)	0.02	-0.06	-0.12	0.00	-0.00	0.00
325	nodo 10 (10)	0.04	-0.06	-0.12	0.00	0.00	0.00
326	nodo 10 (11)	-0.01	-0.07	-0.12	0.00	-0.00	0.00
327	nodo 10 (12)	0.01	-0.07	-0.12	0.00	-0.00	0.00
328	nodo 10 (13)	0.02	0.02	-0.12	-0.00	-0.00	0.00
329	nodo 10 (14)	0.02	0.00	-0.12	0.00	-0.00	0.00
330	nodo 10 (15)	0.01	0.05	-0.12	-0.00	-0.00	0.00
331	nodo 10 (16)	0.00	0.03	-0.12	-0.00	-0.00	0.00
332	nodo 10 (17)	0.07	0.03	-0.12	-0.00	0.00	0.00
333	nodo 10 (18)	0.07	0.01	-0.12	0.00	0.00	0.00
334	nodo 10 (19)	0.06	0.05	-0.12	-0.00	0.00	0.00
335	nodo 10 (20)	0.05	0.03	-0.12	-0.00	0.00	0.00
336	nodo 10 (21)	-0.03	0.09	-0.12	-0.00	-0.00	0.00
337	nodo 10 (22)	-0.01	0.09	-0.12	-0.00	0.00	0.00
338	nodo 10 (23)	-0.06	0.08	-0.11	-0.00	-0.00	-0.00
339	nodo 10 (24)	-0.04	0.08	-0.11	-0.00	-0.00	-0.00
340	nodo 10 (25)	-0.03	0.03	-0.12	-0.00	-0.00	-0.00
341	nodo 10 (26)	-0.02	0.03	-0.12	-0.00	0.00	-0.00
342	nodo 10 (27)	-0.06	0.02	-0.11	-0.00	-0.00	-0.00
343	nodo 10 (28)	-0.05	0.02	-0.11	-0.00	-0.00	-0.00
344	nodo 10 (29)	-0.07	-0.01	-0.12	-0.00	-0.00	0.00
345	nodo 10 (30)	-0.08	-0.03	-0.12	0.00	-0.00	-0.00
346	nodo 10 (31)	-0.09	0.01	-0.11	-0.00	-0.00	-0.00
347	nodo 10 (32)	-0.09	-0.00	-0.11	-0.00	-0.00	-0.00
348	nodo 10 (33)	-0.02	-0.01	-0.12	-0.00	-0.00	-0.00
349	nodo 10 (34)	-0.03	-0.03	-0.12	0.00	-0.00	-0.00
350	nodo 10 (35)	-0.04	0.02	-0.11	-0.00	-0.00	-0.00
351	nodo 10 (36)	-0.04	-0.00	-0.11	-0.00	-0.00	-0.00
352	nodo 10 (37)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
353	nodo 10 (38)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
354	nodo 10 (39)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
355	nodo 10 (40)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
356	nodo 10 (41)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
357	nodo 10 (42)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
358	nodo 10 (43)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
359	nodo 10 (44)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
360	nodo 10 (45)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
361	nodo 11 (1)	-0.02	0.01	-0.16	0.00	-0.00	0.00
362	nodo 11 (2)	-0.02	0.01	-0.15	0.00	-0.00	0.00
363	nodo 11 (3)	-0.02	0.01	-0.15	0.00	-0.00	0.00
364	nodo 11 (4)	-0.01	0.01	-0.15	0.00	-0.00	0.00
365	nodo 11 (5)	0.02	0.03	-0.12	0.00	-0.00	0.00
366	nodo 11 (6)	0.02	0.03	-0.12	0.00	-0.00	0.00
367	nodo 11 (7)	0.01	0.02	-0.11	0.00	-0.00	0.00
368	nodo 11 (8)	0.01	0.02	-0.11	0.00	-0.00	0.00
369	nodo 11 (9)	0.02	0.03	-0.12	0.00	-0.00	0.00
370	nodo 11 (10)	0.02	0.03	-0.12	0.00	-0.00	0.00

371	nodo 11 (11)	0.01	0.02	-0.11	0.00	-0.00	0.00
372	nodo 11 (12)	0.01	0.02	-0.11	0.00	-0.00	0.00
373	nodo 11 (13)	0.02	0.03	-0.12	0.00	-0.00	0.00
374	nodo 11 (14)	0.02	0.03	-0.12	0.00	-0.00	0.00
375	nodo 11 (15)	0.00	0.02	-0.11	0.00	-0.00	0.00
376	nodo 11 (16)	0.00	0.02	-0.11	0.00	-0.00	0.00
377	nodo 11 (17)	0.02	0.03	-0.12	0.00	-0.00	0.00
378	nodo 11 (18)	0.02	0.03	-0.12	0.00	-0.00	0.00
379	nodo 11 (19)	0.00	0.02	-0.11	0.00	-0.00	0.00
380	nodo 11 (20)	0.00	0.02	-0.11	0.00	-0.00	0.00
381	nodo 11 (21)	-0.03	-0.00	-0.10	0.00	-0.00	0.00
382	nodo 11 (22)	-0.03	-0.00	-0.10	0.00	-0.00	0.00
383	nodo 11 (23)	-0.04	-0.01	-0.10	0.00	0.00	-0.00
384	nodo 11 (24)	-0.04	-0.01	-0.10	0.00	0.00	-0.00
385	nodo 11 (25)	-0.03	-0.00	-0.10	0.00	0.00	-0.00
386	nodo 11 (26)	-0.03	-0.00	-0.10	0.00	0.00	-0.00
387	nodo 11 (27)	-0.04	-0.01	-0.10	0.00	0.00	-0.00
388	nodo 11 (28)	-0.04	-0.01	-0.10	0.00	0.00	-0.00
389	nodo 11 (29)	-0.02	-0.01	-0.11	0.00	-0.00	0.00
390	nodo 11 (30)	-0.02	-0.01	-0.11	0.00	-0.00	-0.00
391	nodo 11 (31)	-0.03	-0.02	-0.10	0.00	0.00	-0.00
392	nodo 11 (32)	-0.03	-0.02	-0.10	0.00	0.00	-0.00
393	nodo 11 (33)	-0.02	-0.01	-0.11	0.00	-0.00	-0.00
394	nodo 11 (34)	-0.02	-0.01	-0.11	0.00	0.00	-0.00
395	nodo 11 (35)	-0.03	-0.02	-0.10	0.00	0.00	-0.00
396	nodo 11 (36)	-0.04	-0.02	-0.10	0.00	0.00	-0.00
397	nodo 11 (37)	-0.01	0.01	-0.11	0.00	-0.00	0.00
398	nodo 11 (38)	-0.01	0.01	-0.11	0.00	-0.00	0.00
399	nodo 11 (39)	-0.01	0.01	-0.11	0.00	-0.00	0.00
400	nodo 11 (40)	-0.01	0.01	-0.11	0.00	-0.00	0.00
401	nodo 11 (41)	-0.01	0.01	-0.11	0.00	-0.00	0.00
402	nodo 11 (42)	-0.01	0.01	-0.11	0.00	-0.00	0.00
403	nodo 11 (43)	-0.01	0.01	-0.11	0.00	-0.00	0.00
404	nodo 11 (44)	-0.01	0.01	-0.11	0.00	-0.00	0.00
405	nodo 11 (45)	-0.01	0.01	-0.11	0.00	-0.00	0.00
406	nodo 14 (1)	-0.02	0.02	-0.15	-0.00	-0.00	0.00
407	nodo 14 (2)	-0.02	0.02	-0.15	0.00	-0.00	0.00
408	nodo 14 (3)	-0.02	0.02	-0.15	0.00	-0.00	0.00
409	nodo 14 (4)	-0.02	0.01	-0.15	0.00	-0.00	0.00
410	nodo 14 (5)	0.01	0.03	-0.11	0.00	-0.00	0.00
411	nodo 14 (6)	0.01	0.03	-0.11	0.00	-0.00	0.00
412	nodo 14 (7)	0.00	0.02	-0.11	0.00	-0.00	0.00
413	nodo 14 (8)	0.00	0.02	-0.11	0.00	-0.00	0.00
414	nodo 14 (9)	0.01	0.03	-0.11	0.00	-0.00	0.00
415	nodo 14 (10)	0.01	0.03	-0.11	0.00	-0.00	0.00
416	nodo 14 (11)	0.00	0.02	-0.11	0.00	-0.00	0.00
417	nodo 14 (12)	0.00	0.02	-0.11	0.00	-0.00	0.00
418	nodo 14 (13)	0.01	0.04	-0.10	0.00	-0.00	0.00
419	nodo 14 (14)	0.01	0.04	-0.10	0.00	-0.00	0.00
420	nodo 14 (15)	-0.00	0.03	-0.10	0.00	-0.00	0.00
421	nodo 14 (16)	-0.00	0.03	-0.10	0.00	-0.00	0.00
422	nodo 14 (17)	0.01	0.04	-0.10	0.00	-0.00	0.00
423	nodo 14 (18)	0.01	0.04	-0.10	0.00	-0.00	0.00
424	nodo 14 (19)	-0.00	0.03	-0.10	0.00	-0.00	0.00
425	nodo 14 (20)	-0.00	0.03	-0.10	0.00	-0.00	0.00
426	nodo 14 (21)	-0.03	0.00	-0.10	-0.00	-0.00	0.00
427	nodo 14 (22)	-0.03	0.00	-0.10	-0.00	-0.00	0.00

428	nodo 14 (23)	-0.04	-0.01	-0.10	-0.00	-0.00	-0.00
429	nodo 14 (24)	-0.04	-0.01	-0.10	-0.00	-0.00	-0.00
430	nodo 14 (25)	-0.03	0.00	-0.10	-0.00	-0.00	-0.00
431	nodo 14 (26)	-0.03	0.00	-0.10	-0.00	-0.00	-0.00
432	nodo 14 (27)	-0.04	-0.01	-0.10	-0.00	-0.00	-0.00
433	nodo 14 (28)	-0.04	-0.01	-0.10	-0.00	-0.00	-0.00
434	nodo 14 (29)	-0.02	-0.01	-0.11	-0.00	-0.00	0.00
435	nodo 14 (30)	-0.02	-0.01	-0.11	-0.00	-0.00	-0.00
436	nodo 14 (31)	-0.04	-0.02	-0.11	-0.00	-0.00	-0.00
437	nodo 14 (32)	-0.04	-0.02	-0.11	-0.00	-0.00	-0.00
438	nodo 14 (33)	-0.02	-0.01	-0.11	-0.00	-0.00	-0.00
439	nodo 14 (34)	-0.03	-0.01	-0.11	-0.00	-0.00	-0.00
440	nodo 14 (35)	-0.04	-0.02	-0.11	-0.00	-0.00	-0.00
441	nodo 14 (36)	-0.04	-0.02	-0.11	-0.00	-0.00	-0.00
442	nodo 14 (37)	-0.02	0.01	-0.11	0.00	-0.00	0.00
443	nodo 14 (38)	-0.02	0.01	-0.11	0.00	-0.00	0.00
444	nodo 14 (39)	-0.02	0.01	-0.11	0.00	-0.00	0.00
445	nodo 14 (40)	-0.02	0.01	-0.11	0.00	-0.00	0.00
446	nodo 14 (41)	-0.02	0.01	-0.11	0.00	-0.00	0.00
447	nodo 14 (42)	-0.02	0.01	-0.10	0.00	-0.00	0.00
448	nodo 14 (43)	-0.02	0.01	-0.10	0.00	-0.00	0.00
449	nodo 14 (44)	-0.02	0.01	-0.10	0.00	-0.00	0.00
450	nodo 14 (45)	-0.02	0.01	-0.10	0.00	-0.00	0.00
451	nodo 16 (1)	-0.02	0.02	-0.18	-0.00	-0.00	0.00
452	nodo 16 (2)	-0.02	0.02	-0.18	-0.00	-0.00	0.00
453	nodo 16 (3)	-0.02	0.02	-0.18	-0.00	-0.00	0.00
454	nodo 16 (4)	-0.02	0.02	-0.18	-0.00	-0.00	0.00
455	nodo 16 (5)	0.02	0.03	-0.13	-0.00	-0.00	0.00
456	nodo 16 (6)	0.02	0.03	-0.13	-0.00	-0.00	0.00
457	nodo 16 (7)	0.01	0.02	-0.12	-0.00	-0.00	0.00
458	nodo 16 (8)	0.01	0.02	-0.12	-0.00	-0.00	0.00
459	nodo 16 (9)	0.02	0.03	-0.13	-0.00	-0.00	0.00
460	nodo 16 (10)	0.02	0.03	-0.13	-0.00	-0.00	0.00
461	nodo 16 (11)	0.01	0.02	-0.12	-0.00	-0.00	0.00
462	nodo 16 (12)	0.01	0.02	-0.12	-0.00	-0.00	0.00
463	nodo 16 (13)	0.01	0.03	-0.13	-0.00	-0.00	0.00
464	nodo 16 (14)	0.01	0.03	-0.13	-0.00	-0.00	0.00
465	nodo 16 (15)	-0.00	0.02	-0.12	-0.00	-0.00	0.00
466	nodo 16 (16)	-0.00	0.02	-0.12	-0.00	-0.00	0.00
467	nodo 16 (17)	0.01	0.03	-0.13	-0.00	-0.00	0.00
468	nodo 16 (18)	0.01	0.03	-0.13	-0.00	-0.00	0.00
469	nodo 16 (19)	-0.00	0.03	-0.12	-0.00	-0.00	0.00
470	nodo 16 (20)	-0.00	0.03	-0.12	-0.00	-0.00	0.00
471	nodo 16 (21)	-0.03	0.00	-0.12	-0.00	-0.00	0.00
472	nodo 16 (22)	-0.03	0.00	-0.12	-0.00	-0.00	0.00
473	nodo 16 (23)	-0.04	-0.01	-0.12	-0.00	-0.00	-0.00
474	nodo 16 (24)	-0.04	-0.01	-0.12	-0.00	-0.00	-0.00
475	nodo 16 (25)	-0.03	0.00	-0.12	-0.00	-0.00	-0.00
476	nodo 16 (26)	-0.03	0.00	-0.12	-0.00	-0.00	-0.00
477	nodo 16 (27)	-0.05	-0.01	-0.12	-0.00	-0.00	-0.00
478	nodo 16 (28)	-0.05	-0.01	-0.12	-0.00	-0.00	-0.00
479	nodo 16 (29)	-0.03	-0.00	-0.12	-0.00	-0.00	0.00
480	nodo 16 (30)	-0.03	-0.00	-0.12	-0.00	-0.00	-0.00
481	nodo 16 (31)	-0.04	-0.01	-0.12	-0.00	-0.00	-0.00
482	nodo 16 (32)	-0.04	-0.01	-0.12	-0.00	-0.00	-0.00
483	nodo 16 (33)	-0.03	-0.00	-0.12	-0.00	-0.00	-0.00
484	nodo 16 (34)	-0.03	-0.00	-0.12	-0.00	-0.00	-0.00

485	nodo 16 (35)	-0.04	-0.01	-0.12	-0.00	-0.00	-0.00
486	nodo 16 (36)	-0.04	-0.01	-0.12	-0.00	-0.00	-0.00
487	nodo 16 (37)	-0.01	0.01	-0.13	-0.00	-0.00	0.00
488	nodo 16 (38)	-0.01	0.01	-0.13	-0.00	-0.00	0.00
489	nodo 16 (39)	-0.01	0.01	-0.13	-0.00	-0.00	0.00
490	nodo 16 (40)	-0.01	0.01	-0.13	-0.00	-0.00	0.00
491	nodo 16 (41)	-0.01	0.01	-0.13	-0.00	-0.00	0.00
492	nodo 16 (42)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
493	nodo 16 (43)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
494	nodo 16 (44)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
495	nodo 16 (45)	-0.01	0.01	-0.12	-0.00	-0.00	0.00
496	nodo 18 (1)	-0.02	0.02	-0.20	-0.00	-0.00	0.00
497	nodo 18 (2)	-0.02	0.01	-0.19	-0.00	-0.00	0.00
498	nodo 18 (3)	-0.02	0.01	-0.19	-0.00	-0.00	0.00
499	nodo 18 (4)	-0.02	0.01	-0.19	-0.00	-0.00	0.00
500	nodo 18 (5)	0.01	-0.00	-0.13	-0.00	0.00	0.00
501	nodo 18 (6)	0.01	-0.00	-0.13	-0.00	0.00	0.00
502	nodo 18 (7)	0.02	-0.01	-0.12	-0.00	0.00	0.00
503	nodo 18 (8)	0.02	-0.01	-0.12	-0.00	0.00	0.00
504	nodo 18 (9)	0.01	-0.04	-0.13	0.00	0.00	0.00
505	nodo 18 (10)	0.01	-0.04	-0.13	0.00	0.00	0.00
506	nodo 18 (11)	0.02	-0.05	-0.12	0.00	0.00	0.00
507	nodo 18 (12)	0.02	-0.05	-0.12	0.00	0.00	0.00
508	nodo 18 (13)	-0.02	0.02	-0.14	-0.00	-0.00	0.00
509	nodo 18 (14)	-0.02	0.01	-0.14	-0.00	-0.00	0.00
510	nodo 18 (15)	-0.04	0.04	-0.15	-0.00	-0.00	0.00
511	nodo 18 (16)	-0.04	0.03	-0.15	-0.00	-0.00	0.00
512	nodo 18 (17)	-0.02	0.02	-0.14	-0.00	-0.00	0.00
513	nodo 18 (18)	-0.02	0.01	-0.14	-0.00	-0.00	0.00
514	nodo 18 (19)	-0.04	0.04	-0.15	-0.00	-0.00	0.00
515	nodo 18 (20)	-0.04	0.03	-0.15	-0.00	-0.00	0.00
516	nodo 18 (21)	-0.04	0.07	-0.15	-0.00	-0.00	0.00
517	nodo 18 (22)	-0.04	0.07	-0.15	-0.00	-0.00	0.00
518	nodo 18 (23)	-0.03	0.06	-0.15	-0.00	-0.00	-0.00
519	nodo 18 (24)	-0.03	0.06	-0.15	-0.00	-0.00	-0.00
520	nodo 18 (25)	-0.04	0.03	-0.15	-0.00	-0.00	-0.00
521	nodo 18 (26)	-0.04	0.03	-0.15	-0.00	-0.00	-0.00
522	nodo 18 (27)	-0.03	0.02	-0.15	-0.00	-0.00	-0.00
523	nodo 18 (28)	-0.03	0.02	-0.15	-0.00	-0.00	-0.00
524	nodo 18 (29)	0.02	-0.01	-0.12	-0.00	0.00	0.00
525	nodo 18 (30)	0.02	-0.02	-0.12	0.00	0.00	-0.00
526	nodo 18 (31)	0.00	0.01	-0.13	-0.00	0.00	-0.00
527	nodo 18 (32)	0.00	-0.00	-0.13	-0.00	0.00	-0.00
528	nodo 18 (33)	0.02	-0.01	-0.12	-0.00	0.00	-0.00
529	nodo 18 (34)	0.02	-0.02	-0.12	0.00	0.00	-0.00
530	nodo 18 (35)	0.00	0.01	-0.13	-0.00	0.00	-0.00
531	nodo 18 (36)	0.00	0.00	-0.13	-0.00	0.00	-0.00
532	nodo 18 (37)	-0.01	0.01	-0.14	-0.00	-0.00	0.00
533	nodo 18 (38)	-0.01	0.01	-0.14	-0.00	-0.00	0.00
534	nodo 18 (39)	-0.01	0.01	-0.14	-0.00	-0.00	0.00
535	nodo 18 (40)	-0.01	0.01	-0.14	-0.00	-0.00	0.00
536	nodo 18 (41)	-0.01	0.01	-0.14	-0.00	-0.00	0.00
537	nodo 18 (42)	-0.01	0.01	-0.14	-0.00	-0.00	0.00
538	nodo 18 (43)	-0.01	0.01	-0.14	-0.00	-0.00	0.00
539	nodo 18 (44)	-0.01	0.01	-0.14	-0.00	-0.00	0.00
540	nodo 18 (45)	-0.01	0.01	-0.14	-0.00	-0.00	0.00
541	nodo 19 (1)	-0.03	0.02	-0.15	-0.00	-0.00	0.00

542	nodo 19 (2)	-0.03	0.02	-0.15	-0.00	-0.00	0.00
543	nodo 19 (3)	-0.03	0.02	-0.15	-0.00	-0.00	0.00
544	nodo 19 (4)	-0.02	0.02	-0.15	-0.00	-0.00	0.00
545	nodo 19 (5)	0.01	0.04	-0.11	-0.00	-0.00	0.00
546	nodo 19 (6)	0.01	0.04	-0.11	-0.00	-0.00	0.00
547	nodo 19 (7)	-0.00	0.02	-0.11	-0.00	-0.00	0.00
548	nodo 19 (8)	-0.00	0.02	-0.11	-0.00	-0.00	0.00
549	nodo 19 (9)	0.01	0.04	-0.11	-0.00	-0.00	0.00
550	nodo 19 (10)	0.01	0.04	-0.11	-0.00	-0.00	0.00
551	nodo 19 (11)	0.00	0.02	-0.11	-0.00	-0.00	0.00
552	nodo 19 (12)	0.00	0.02	-0.11	-0.00	-0.00	0.00
553	nodo 19 (13)	0.00	0.04	-0.10	0.00	-0.00	0.00
554	nodo 19 (14)	0.01	0.04	-0.10	-0.00	-0.00	0.00
555	nodo 19 (15)	-0.01	0.03	-0.10	-0.00	-0.00	0.00
556	nodo 19 (16)	-0.01	0.03	-0.10	-0.00	-0.00	0.00
557	nodo 19 (17)	0.01	0.04	-0.10	-0.00	-0.00	0.00
558	nodo 19 (18)	0.01	0.04	-0.10	-0.00	-0.00	0.00
559	nodo 19 (19)	-0.01	0.03	-0.10	-0.00	-0.00	0.00
560	nodo 19 (20)	-0.01	0.03	-0.10	-0.00	-0.00	0.00
561	nodo 19 (21)	-0.03	0.00	-0.10	-0.00	-0.00	0.00
562	nodo 19 (22)	-0.03	0.00	-0.10	-0.00	-0.00	0.00
563	nodo 19 (23)	-0.04	-0.01	-0.10	-0.00	-0.00	-0.00
564	nodo 19 (24)	-0.04	-0.01	-0.10	-0.00	-0.00	-0.00
565	nodo 19 (25)	-0.03	0.00	-0.10	-0.00	-0.00	-0.00
566	nodo 19 (26)	-0.03	0.00	-0.10	-0.00	-0.00	-0.00
567	nodo 19 (27)	-0.04	-0.01	-0.10	-0.00	-0.00	-0.00
568	nodo 19 (28)	-0.04	-0.01	-0.10	-0.00	-0.00	-0.00
569	nodo 19 (29)	-0.03	-0.00	-0.11	-0.00	-0.00	0.00
570	nodo 19 (30)	-0.03	-0.00	-0.11	-0.00	-0.00	-0.00
571	nodo 19 (31)	-0.04	-0.01	-0.11	-0.00	-0.00	-0.00
572	nodo 19 (32)	-0.04	-0.01	-0.11	-0.00	-0.00	-0.00
573	nodo 19 (33)	-0.03	-0.00	-0.11	-0.00	-0.00	-0.00
574	nodo 19 (34)	-0.03	-0.00	-0.11	-0.00	-0.00	-0.00
575	nodo 19 (35)	-0.04	-0.01	-0.11	-0.00	-0.00	-0.00
576	nodo 19 (36)	-0.04	-0.01	-0.11	-0.00	-0.00	-0.00
577	nodo 19 (37)	-0.02	0.01	-0.11	-0.00	-0.00	0.00
578	nodo 19 (38)	-0.02	0.01	-0.11	-0.00	-0.00	0.00
579	nodo 19 (39)	-0.02	0.01	-0.11	-0.00	-0.00	0.00
580	nodo 19 (40)	-0.02	0.01	-0.11	-0.00	-0.00	0.00
581	nodo 19 (41)	-0.02	0.01	-0.10	-0.00	-0.00	0.00
582	nodo 19 (42)	-0.02	0.01	-0.10	-0.00	-0.00	0.00
583	nodo 19 (43)	-0.02	0.01	-0.10	-0.00	-0.00	0.00
584	nodo 19 (44)	-0.02	0.01	-0.10	-0.00	-0.00	0.00
585	nodo 19 (45)	-0.02	0.01	-0.10	-0.00	-0.00	0.00
586	nodo 23 (1)	-0.02	0.02	-0.19	-0.00	-0.00	0.00
587	nodo 23 (2)	-0.02	0.02	-0.18	-0.00	-0.00	0.00
588	nodo 23 (3)	-0.02	0.02	-0.18	-0.00	-0.00	0.00
589	nodo 23 (4)	-0.02	0.02	-0.18	-0.00	-0.00	0.00
590	nodo 23 (5)	0.01	0.03	-0.13	-0.00	-0.00	0.00
591	nodo 23 (6)	0.01	0.03	-0.13	-0.00	-0.00	0.00
592	nodo 23 (7)	0.00	0.02	-0.13	-0.00	-0.00	0.00
593	nodo 23 (8)	0.00	0.02	-0.13	-0.00	-0.00	0.00
594	nodo 23 (9)	0.01	0.03	-0.13	-0.00	-0.00	0.00
595	nodo 23 (10)	0.01	0.03	-0.13	-0.00	-0.00	0.00
596	nodo 23 (11)	0.00	0.02	-0.13	-0.00	-0.00	0.00
597	nodo 23 (12)	0.00	0.02	-0.13	-0.00	-0.00	0.00
598	nodo 23 (13)	0.01	0.04	-0.13	-0.00	-0.00	0.00

599	nodo 23 (14)	0.01	0.04	-0.13	-0.00	-0.00	0.00
600	nodo 23 (15)	-0.01	0.03	-0.13	-0.00	-0.00	0.00
601	nodo 23 (16)	-0.01	0.03	-0.13	-0.00	-0.00	0.00
602	nodo 23 (17)	0.01	0.04	-0.13	-0.00	-0.00	0.00
603	nodo 23 (18)	0.01	0.04	-0.13	-0.00	-0.00	0.00
604	nodo 23 (19)	-0.01	0.03	-0.13	-0.00	-0.00	0.00
605	nodo 23 (20)	-0.01	0.03	-0.13	-0.00	-0.00	0.00
606	nodo 23 (21)	-0.04	0.01	-0.13	-0.00	-0.00	0.00
607	nodo 23 (22)	-0.04	0.01	-0.13	-0.00	-0.00	0.00
608	nodo 23 (23)	-0.05	-0.01	-0.13	-0.00	-0.00	-0.00
609	nodo 23 (24)	-0.05	-0.01	-0.13	-0.00	-0.00	-0.00
610	nodo 23 (25)	-0.03	0.00	-0.13	-0.00	-0.00	-0.00
611	nodo 23 (26)	-0.03	0.00	-0.13	-0.00	-0.00	-0.00
612	nodo 23 (27)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
613	nodo 23 (28)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
614	nodo 23 (29)	-0.03	-0.00	-0.13	-0.00	-0.00	0.00
615	nodo 23 (30)	-0.02	-0.00	-0.13	-0.00	-0.00	-0.00
616	nodo 23 (31)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
617	nodo 23 (32)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
618	nodo 23 (33)	-0.02	-0.00	-0.13	-0.00	-0.00	-0.00
619	nodo 23 (34)	-0.02	-0.00	-0.13	-0.00	-0.00	-0.00
620	nodo 23 (35)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
621	nodo 23 (36)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
622	nodo 23 (37)	-0.02	0.01	-0.13	-0.00	-0.00	0.00
623	nodo 23 (38)	-0.02	0.01	-0.13	-0.00	-0.00	0.00
624	nodo 23 (39)	-0.02	0.01	-0.13	-0.00	-0.00	0.00
625	nodo 23 (40)	-0.02	0.01	-0.13	-0.00	-0.00	0.00
626	nodo 23 (41)	-0.02	0.01	-0.13	-0.00	-0.00	0.00
627	nodo 23 (42)	-0.02	0.01	-0.13	-0.00	-0.00	0.00
628	nodo 23 (43)	-0.02	0.01	-0.13	-0.00	-0.00	0.00
629	nodo 23 (44)	-0.02	0.01	-0.13	-0.00	-0.00	0.00
630	nodo 23 (45)	-0.02	0.01	-0.13	-0.00	-0.00	0.00
631	nodo 24 (1)	-0.03	0.03	-0.15	-0.00	-0.00	0.00
632	nodo 24 (2)	-0.03	0.02	-0.14	-0.00	-0.00	0.00
633	nodo 24 (3)	-0.03	0.02	-0.14	-0.00	-0.00	0.00
634	nodo 24 (4)	-0.02	0.02	-0.14	-0.00	-0.00	0.00
635	nodo 24 (5)	-0.03	0.04	-0.10	-0.00	-0.00	0.00
636	nodo 24 (6)	0.01	0.04	-0.10	-0.00	-0.00	0.00
637	nodo 24 (7)	-0.00	0.03	-0.11	-0.00	-0.00	0.00
638	nodo 24 (8)	0.03	0.03	-0.11	-0.00	-0.00	0.00
639	nodo 24 (9)	-0.02	0.04	-0.11	-0.00	-0.00	0.00
640	nodo 24 (10)	0.01	0.04	-0.11	-0.00	-0.00	0.00
641	nodo 24 (11)	0.00	0.03	-0.11	-0.00	-0.00	0.00
642	nodo 24 (12)	0.03	0.03	-0.11	-0.00	-0.00	0.00
643	nodo 24 (13)	-0.11	0.05	-0.10	-0.00	-0.00	0.00
644	nodo 24 (14)	-0.11	0.05	-0.10	-0.00	-0.00	0.00
645	nodo 24 (15)	-0.12	0.04	-0.10	-0.00	-0.00	0.00
646	nodo 24 (16)	-0.12	0.04	-0.10	-0.00	-0.00	0.00
647	nodo 24 (17)	0.00	0.04	-0.10	-0.00	-0.00	0.00
648	nodo 24 (18)	0.00	0.04	-0.10	-0.00	-0.00	0.00
649	nodo 24 (19)	-0.01	0.03	-0.10	-0.00	-0.00	0.00
650	nodo 24 (20)	-0.01	0.03	-0.10	-0.00	-0.00	0.00
651	nodo 24 (21)	-0.07	0.01	-0.10	-0.00	-0.00	0.00
652	nodo 24 (22)	-0.03	0.01	-0.10	-0.00	-0.00	0.00
653	nodo 24 (23)	-0.04	-0.01	-0.10	-0.00	-0.00	-0.00
654	nodo 24 (24)	-0.01	-0.01	-0.10	-0.00	0.00	-0.00
655	nodo 24 (25)	-0.06	0.01	-0.10	-0.00	-0.00	-0.00

656	nodo 24 (26)	-0.03	0.01	-0.10	-0.00	-0.00	-0.00
657	nodo 24 (27)	-0.04	-0.01	-0.10	-0.00	-0.00	-0.00
658	nodo 24 (28)	-0.01	-0.01	-0.10	-0.00	0.00	-0.00
659	nodo 24 (29)	-0.03	-0.00	-0.11	-0.00	-0.00	-0.00
660	nodo 24 (30)	-0.03	-0.00	-0.11	-0.00	-0.00	-0.00
661	nodo 24 (31)	-0.04	-0.01	-0.10	-0.00	-0.00	-0.00
662	nodo 24 (32)	-0.04	-0.01	-0.10	-0.00	-0.00	-0.00
663	nodo 24 (33)	0.08	-0.00	-0.11	-0.00	0.00	-0.00
664	nodo 24 (34)	0.08	-0.00	-0.11	-0.00	0.00	-0.00
665	nodo 24 (35)	0.07	-0.01	-0.10	-0.00	0.00	-0.00
666	nodo 24 (36)	0.07	-0.01	-0.10	-0.00	0.00	-0.00
667	nodo 24 (37)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
668	nodo 24 (38)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
669	nodo 24 (39)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
670	nodo 24 (40)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
671	nodo 24 (41)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
672	nodo 24 (42)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
673	nodo 24 (43)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
674	nodo 24 (44)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
675	nodo 24 (45)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
676	nodo 25 (1)	-0.03	0.03	-0.14	-0.00	-0.00	0.00
677	nodo 25 (2)	-0.03	0.03	-0.14	-0.00	-0.00	0.00
678	nodo 25 (3)	-0.03	0.03	-0.14	-0.00	-0.00	0.00
679	nodo 25 (4)	-0.02	0.03	-0.14	-0.00	-0.00	0.00
680	nodo 25 (5)	-0.00	0.04	-0.10	-0.00	-0.00	0.00
681	nodo 25 (6)	-0.03	0.04	-0.10	-0.00	-0.00	0.00
682	nodo 25 (7)	0.03	0.03	-0.10	-0.00	-0.00	0.00
683	nodo 25 (8)	0.00	0.03	-0.10	-0.00	-0.00	0.00
684	nodo 25 (9)	0.00	0.04	-0.10	-0.00	-0.00	0.00
685	nodo 25 (10)	-0.02	0.04	-0.10	-0.00	-0.00	0.00
686	nodo 25 (11)	0.03	0.03	-0.10	-0.00	-0.00	0.00
687	nodo 25 (12)	0.01	0.03	-0.10	-0.00	-0.00	0.00
688	nodo 25 (13)	-0.03	0.05	-0.09	-0.00	-0.00	0.00
689	nodo 25 (14)	-0.02	0.05	-0.09	-0.00	-0.00	0.00
690	nodo 25 (15)	-0.04	0.04	-0.09	-0.00	-0.00	0.00
691	nodo 25 (16)	-0.04	0.04	-0.09	-0.00	-0.00	0.00
692	nodo 25 (17)	-0.10	0.05	-0.09	-0.00	-0.00	0.00
693	nodo 25 (18)	-0.10	0.05	-0.09	-0.00	-0.00	0.00
694	nodo 25 (19)	-0.12	0.04	-0.09	-0.00	-0.00	0.00
695	nodo 25 (20)	-0.11	0.04	-0.09	-0.00	-0.00	0.00
696	nodo 25 (21)	-0.04	0.01	-0.09	-0.00	-0.00	0.00
697	nodo 25 (22)	-0.07	0.01	-0.09	-0.00	-0.00	0.00
698	nodo 25 (23)	-0.01	-0.01	-0.09	-0.00	0.00	-0.00
699	nodo 25 (24)	-0.04	-0.01	-0.09	-0.00	-0.00	-0.00
700	nodo 25 (25)	-0.04	0.01	-0.09	-0.00	-0.00	-0.00
701	nodo 25 (26)	-0.06	0.01	-0.09	-0.00	-0.00	-0.00
702	nodo 25 (27)	-0.01	-0.01	-0.10	-0.00	0.00	-0.00
703	nodo 25 (28)	-0.03	-0.01	-0.10	-0.00	-0.00	-0.00
704	nodo 25 (29)	0.08	-0.00	-0.10	-0.00	0.00	-0.00
705	nodo 25 (30)	0.08	-0.00	-0.10	-0.00	0.00	-0.00
706	nodo 25 (31)	0.07	-0.01	-0.10	-0.00	0.00	-0.00
707	nodo 25 (32)	0.07	-0.01	-0.10	-0.00	0.00	-0.00
708	nodo 25 (33)	0.00	-0.00	-0.10	-0.00	-0.00	-0.00
709	nodo 25 (34)	0.00	-0.00	-0.10	-0.00	-0.00	-0.00
710	nodo 25 (35)	-0.01	-0.01	-0.10	-0.00	-0.00	-0.00
711	nodo 25 (36)	-0.01	-0.01	-0.10	-0.00	-0.00	-0.00
712	nodo 25 (37)	-0.02	0.02	-0.10	-0.00	-0.00	0.00

713	nodo 25 (38)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
714	nodo 25 (39)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
715	nodo 25 (40)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
716	nodo 25 (41)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
717	nodo 25 (42)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
718	nodo 25 (43)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
719	nodo 25 (44)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
720	nodo 25 (45)	-0.02	0.02	-0.10	-0.00	-0.00	0.00
721	nodo 26 (1)	-0.02	0.02	-0.21	-0.00	-0.00	0.00
722	nodo 26 (2)	-0.02	0.02	-0.21	-0.00	-0.00	0.00
723	nodo 26 (3)	-0.02	0.02	-0.21	-0.00	-0.00	0.00
724	nodo 26 (4)	-0.02	0.01	-0.20	-0.00	-0.00	0.00
725	nodo 26 (5)	0.00	-0.00	-0.14	-0.00	-0.00	0.00
726	nodo 26 (6)	-0.01	0.00	-0.14	-0.00	-0.00	0.00
727	nodo 26 (7)	0.02	-0.01	-0.13	-0.00	0.00	0.00
728	nodo 26 (8)	0.01	-0.01	-0.13	-0.00	0.00	0.00
729	nodo 26 (9)	0.01	0.03	-0.14	-0.00	-0.00	0.00
730	nodo 26 (10)	-0.00	0.03	-0.14	-0.00	-0.00	0.00
731	nodo 26 (11)	0.03	0.02	-0.13	-0.00	0.00	0.00
732	nodo 26 (12)	0.02	0.02	-0.13	-0.00	0.00	0.00
733	nodo 26 (13)	-0.02	0.02	-0.15	-0.00	-0.00	0.00
734	nodo 26 (14)	-0.02	0.03	-0.15	-0.00	-0.00	0.00
735	nodo 26 (15)	-0.04	0.02	-0.16	-0.00	-0.00	0.00
736	nodo 26 (16)	-0.04	0.03	-0.16	-0.00	-0.00	0.00
737	nodo 26 (17)	-0.05	0.03	-0.15	-0.00	-0.00	0.00
738	nodo 26 (18)	-0.05	0.03	-0.15	-0.00	-0.00	0.00
739	nodo 26 (19)	-0.07	0.03	-0.16	-0.00	-0.00	0.00
740	nodo 26 (20)	-0.07	0.04	-0.16	-0.00	-0.00	0.00
741	nodo 26 (21)	-0.04	0.00	-0.16	-0.00	-0.00	0.00
742	nodo 26 (22)	-0.05	0.00	-0.16	-0.00	-0.00	0.00
743	nodo 26 (23)	-0.03	-0.01	-0.16	-0.00	-0.00	-0.00
744	nodo 26 (24)	-0.04	-0.01	-0.16	-0.00	-0.00	-0.00
745	nodo 26 (25)	-0.04	0.03	-0.16	-0.00	-0.00	-0.00
746	nodo 26 (26)	-0.05	0.03	-0.16	-0.00	-0.00	-0.00
747	nodo 26 (27)	-0.02	0.02	-0.15	-0.00	-0.00	-0.00
748	nodo 26 (28)	-0.03	0.02	-0.15	-0.00	-0.00	-0.00
749	nodo 26 (29)	0.04	-0.01	-0.13	-0.00	0.00	0.00
750	nodo 26 (30)	0.04	-0.01	-0.13	-0.00	0.00	-0.00
751	nodo 26 (31)	0.02	-0.01	-0.14	-0.00	0.00	-0.00
752	nodo 26 (32)	0.03	-0.00	-0.14	-0.00	0.00	-0.00
753	nodo 26 (33)	0.01	-0.01	-0.13	-0.00	0.00	-0.00
754	nodo 26 (34)	0.01	-0.00	-0.13	-0.00	0.00	-0.00
755	nodo 26 (35)	-0.01	-0.01	-0.14	-0.00	-0.00	-0.00
756	nodo 26 (36)	-0.00	-0.00	-0.14	-0.00	-0.00	-0.00
757	nodo 26 (37)	-0.01	0.01	-0.15	-0.00	-0.00	0.00
758	nodo 26 (38)	-0.01	0.01	-0.15	-0.00	-0.00	0.00
759	nodo 26 (39)	-0.01	0.01	-0.15	-0.00	-0.00	0.00
760	nodo 26 (40)	-0.01	0.01	-0.15	-0.00	-0.00	0.00
761	nodo 26 (41)	-0.01	0.01	-0.15	-0.00	-0.00	0.00
762	nodo 26 (42)	-0.01	0.01	-0.15	-0.00	-0.00	0.00
763	nodo 26 (43)	-0.01	0.01	-0.15	-0.00	-0.00	0.00
764	nodo 26 (44)	-0.01	0.01	-0.15	-0.00	-0.00	0.00
765	nodo 26 (45)	-0.01	0.01	-0.15	-0.00	-0.00	0.00
766	nodo 27 (1)	-0.03	0.03	-0.13	-0.00	-0.00	0.00
767	nodo 27 (2)	-0.03	0.03	-0.13	-0.00	-0.00	0.00
768	nodo 27 (3)	-0.03	0.03	-0.12	-0.00	-0.00	0.00
769	nodo 27 (4)	-0.03	0.03	-0.13	-0.00	-0.00	0.00

770	nodo 27 (5)	-0.01	0.05	-0.09	-0.00	-0.00	0.00
771	nodo 27 (6)	-0.01	0.05	-0.09	-0.00	-0.00	0.00
772	nodo 27 (7)	0.00	0.03	-0.10	-0.00	-0.00	0.00
773	nodo 27 (8)	0.00	0.03	-0.10	-0.00	-0.00	0.00
774	nodo 27 (9)	-0.00	0.05	-0.09	-0.00	-0.00	0.00
775	nodo 27 (10)	-0.00	0.04	-0.09	-0.00	-0.00	0.00
776	nodo 27 (11)	0.01	0.03	-0.10	-0.00	-0.00	0.00
777	nodo 27 (12)	0.01	0.03	-0.10	-0.00	-0.00	0.00
778	nodo 27 (13)	-0.03	0.05	-0.08	-0.00	-0.00	0.00
779	nodo 27 (14)	-0.03	0.05	-0.08	-0.00	-0.00	0.00
780	nodo 27 (15)	-0.04	0.04	-0.08	-0.00	-0.00	0.00
781	nodo 27 (16)	-0.04	0.04	-0.08	-0.00	-0.00	0.00
782	nodo 27 (17)	-0.03	0.05	-0.08	-0.00	-0.00	0.00
783	nodo 27 (18)	-0.03	0.05	-0.08	-0.00	-0.00	0.00
784	nodo 27 (19)	-0.04	0.04	-0.08	-0.00	-0.00	0.00
785	nodo 27 (20)	-0.04	0.04	-0.08	-0.00	-0.00	0.00
786	nodo 27 (21)	-0.05	0.01	-0.08	-0.00	-0.00	0.00
787	nodo 27 (22)	-0.05	0.01	-0.08	-0.00	-0.00	-0.00
788	nodo 27 (23)	-0.04	-0.01	-0.08	-0.00	-0.00	-0.00
789	nodo 27 (24)	-0.04	-0.01	-0.09	-0.00	-0.00	-0.00
790	nodo 27 (25)	-0.04	0.01	-0.08	-0.00	-0.00	-0.00
791	nodo 27 (26)	-0.04	0.01	-0.08	-0.00	-0.00	-0.00
792	nodo 27 (27)	-0.03	-0.01	-0.09	-0.00	-0.00	-0.00
793	nodo 27 (28)	-0.03	-0.01	-0.09	-0.00	-0.00	-0.00
794	nodo 27 (29)	-0.00	-0.00	-0.10	-0.00	-0.00	-0.00
795	nodo 27 (30)	0.00	-0.00	-0.10	-0.00	-0.00	-0.00
796	nodo 27 (31)	-0.01	-0.01	-0.09	-0.00	-0.00	-0.00
797	nodo 27 (32)	-0.01	-0.01	-0.09	-0.00	-0.00	-0.00
798	nodo 27 (33)	-0.00	-0.00	-0.10	-0.00	-0.00	-0.00
799	nodo 27 (34)	-0.00	-0.01	-0.10	-0.00	-0.00	-0.00
800	nodo 27 (35)	-0.01	-0.02	-0.09	-0.00	-0.00	-0.00
801	nodo 27 (36)	-0.01	-0.02	-0.09	-0.00	-0.00	-0.00
802	nodo 27 (37)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
803	nodo 27 (38)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
804	nodo 27 (39)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
805	nodo 27 (40)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
806	nodo 27 (41)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
807	nodo 27 (42)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
808	nodo 27 (43)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
809	nodo 27 (44)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
810	nodo 27 (45)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
811	nodo 28 (1)	-0.03	0.02	-0.19	-0.00	-0.00	0.00
812	nodo 28 (2)	-0.03	0.02	-0.18	-0.00	-0.00	0.00
813	nodo 28 (3)	-0.03	0.02	-0.18	-0.00	-0.00	0.00
814	nodo 28 (4)	-0.02	0.02	-0.18	-0.00	-0.00	0.00
815	nodo 28 (5)	0.00	0.04	-0.13	-0.00	-0.00	0.00
816	nodo 28 (6)	0.00	0.04	-0.13	-0.00	-0.00	0.00
817	nodo 28 (7)	-0.00	0.02	-0.13	-0.00	-0.00	0.00
818	nodo 28 (8)	-0.00	0.02	-0.13	-0.00	-0.00	0.00
819	nodo 28 (9)	0.01	0.04	-0.13	-0.00	-0.00	0.00
820	nodo 28 (10)	0.01	0.04	-0.13	-0.00	-0.00	0.00
821	nodo 28 (11)	0.00	0.02	-0.13	-0.00	-0.00	0.00
822	nodo 28 (12)	0.00	0.02	-0.13	-0.00	-0.00	0.00
823	nodo 28 (13)	0.00	0.04	-0.13	-0.00	-0.00	0.00
824	nodo 28 (14)	0.00	0.04	-0.13	-0.00	-0.00	0.00
825	nodo 28 (15)	-0.01	0.03	-0.13	-0.00	-0.00	0.00
826	nodo 28 (16)	-0.01	0.03	-0.13	-0.00	-0.00	0.00

827	nodo 28 (17)	0.00	0.04	-0.13	-0.00	-0.00	0.00
828	nodo 28 (18)	0.00	0.04	-0.13	-0.00	-0.00	0.00
829	nodo 28 (19)	-0.01	0.03	-0.13	-0.00	-0.00	0.00
830	nodo 28 (20)	-0.01	0.03	-0.13	-0.00	-0.00	0.00
831	nodo 28 (21)	-0.04	0.01	-0.13	-0.00	-0.00	0.00
832	nodo 28 (22)	-0.04	0.01	-0.13	-0.00	-0.00	0.00
833	nodo 28 (23)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
834	nodo 28 (24)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
835	nodo 28 (25)	-0.03	0.01	-0.13	-0.00	-0.00	-0.00
836	nodo 28 (26)	-0.03	0.01	-0.13	-0.00	-0.00	-0.00
837	nodo 28 (27)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
838	nodo 28 (28)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
839	nodo 28 (29)	-0.02	-0.00	-0.13	-0.00	-0.00	-0.00
840	nodo 28 (30)	-0.02	-0.00	-0.13	-0.00	-0.00	-0.00
841	nodo 28 (31)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
842	nodo 28 (32)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
843	nodo 28 (33)	-0.02	-0.00	-0.13	-0.00	-0.00	-0.00
844	nodo 28 (34)	-0.02	-0.00	-0.13	-0.00	-0.00	-0.00
845	nodo 28 (35)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
846	nodo 28 (36)	-0.04	-0.01	-0.13	-0.00	-0.00	-0.00
847	nodo 28 (37)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
848	nodo 28 (38)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
849	nodo 28 (39)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
850	nodo 28 (40)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
851	nodo 28 (41)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
852	nodo 28 (42)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
853	nodo 28 (43)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
854	nodo 28 (44)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
855	nodo 28 (45)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
856	nodo 29 (1)	-0.03	0.03	-0.10	-0.00	-0.00	0.00
857	nodo 29 (2)	-0.03	0.03	-0.10	-0.00	-0.00	0.00
858	nodo 29 (3)	-0.03	0.03	-0.10	-0.00	-0.00	0.00
859	nodo 29 (4)	-0.03	0.03	-0.10	-0.00	-0.00	0.00
860	nodo 29 (5)	-0.01	0.05	-0.08	0.00	-0.00	0.00
861	nodo 29 (6)	-0.02	0.05	-0.08	-0.00	-0.00	0.00
862	nodo 29 (7)	0.02	0.03	-0.08	-0.00	-0.00	0.00
863	nodo 29 (8)	0.00	0.03	-0.08	-0.00	-0.00	0.00
864	nodo 29 (9)	-0.00	0.05	-0.08	-0.00	-0.00	0.00
865	nodo 29 (10)	-0.02	0.05	-0.08	-0.00	-0.00	0.00
866	nodo 29 (11)	0.02	0.03	-0.08	-0.00	-0.00	0.00
867	nodo 29 (12)	0.01	0.03	-0.08	-0.00	-0.00	0.00
868	nodo 29 (13)	-0.03	0.06	-0.07	0.00	-0.00	0.00
869	nodo 29 (14)	-0.03	0.06	-0.07	0.00	-0.00	0.00
870	nodo 29 (15)	-0.04	0.04	-0.06	-0.00	-0.00	0.00
871	nodo 29 (16)	-0.04	0.04	-0.06	-0.00	-0.00	0.00
872	nodo 29 (17)	-0.09	0.05	-0.07	0.00	-0.00	0.00
873	nodo 29 (18)	-0.09	0.05	-0.07	0.00	-0.00	0.00
874	nodo 29 (19)	-0.10	0.04	-0.06	-0.00	-0.00	0.00
875	nodo 29 (20)	-0.10	0.04	-0.06	-0.00	-0.00	0.00
876	nodo 29 (21)	-0.05	0.01	-0.06	-0.00	-0.00	0.00
877	nodo 29 (22)	-0.07	0.01	-0.06	-0.00	-0.00	-0.00
878	nodo 29 (23)	-0.02	-0.01	-0.07	-0.00	-0.00	-0.00
879	nodo 29 (24)	-0.04	-0.01	-0.07	-0.00	-0.00	-0.00
880	nodo 29 (25)	-0.04	0.01	-0.06	-0.00	-0.00	-0.00
881	nodo 29 (26)	-0.06	0.01	-0.06	-0.00	-0.00	-0.00
882	nodo 29 (27)	-0.02	-0.01	-0.07	-0.00	-0.00	-0.00
883	nodo 29 (28)	-0.03	-0.01	-0.07	-0.00	-0.00	-0.00

884	nodo 29 (29)	0.06	-0.00	-0.08	-0.00	0.00	-0.00
885	nodo 29 (30)	0.06	-0.00	-0.08	-0.00	0.00	-0.00
886	nodo 29 (31)	0.04	-0.01	-0.08	-0.00	0.00	-0.00
887	nodo 29 (32)	0.05	-0.01	-0.08	-0.00	0.00	-0.00
888	nodo 29 (33)	-0.00	-0.01	-0.08	-0.00	-0.00	-0.00
889	nodo 29 (34)	-0.00	-0.01	-0.08	-0.00	-0.00	-0.00
890	nodo 29 (35)	-0.01	-0.02	-0.08	-0.00	-0.00	-0.00
891	nodo 29 (36)	-0.01	-0.02	-0.08	-0.00	-0.00	-0.00
892	nodo 29 (37)	-0.02	0.02	-0.07	-0.00	-0.00	0.00
893	nodo 29 (38)	-0.02	0.02	-0.07	-0.00	-0.00	0.00
894	nodo 29 (39)	-0.02	0.02	-0.07	-0.00	-0.00	0.00
895	nodo 29 (40)	-0.02	0.02	-0.07	-0.00	-0.00	0.00
896	nodo 29 (41)	-0.02	0.02	-0.07	-0.00	-0.00	0.00
897	nodo 29 (42)	-0.02	0.02	-0.07	-0.00	-0.00	0.00
898	nodo 29 (43)	-0.02	0.02	-0.07	-0.00	-0.00	0.00
899	nodo 29 (44)	-0.02	0.02	-0.07	-0.00	-0.00	0.00
900	nodo 29 (45)	-0.02	0.02	-0.07	-0.00	-0.00	0.00
901	nodo 30 (1)	-0.03	0.02	-0.18	-0.00	-0.00	0.00
902	nodo 30 (2)	-0.03	0.02	-0.17	-0.00	-0.00	0.00
903	nodo 30 (3)	-0.03	0.02	-0.17	-0.00	-0.00	0.00
904	nodo 30 (4)	-0.03	0.02	-0.17	-0.00	-0.00	0.00
905	nodo 30 (5)	-0.02	0.04	-0.12	-0.00	-0.00	0.00
906	nodo 30 (6)	0.00	0.04	-0.12	-0.00	-0.00	0.00
907	nodo 30 (7)	-0.01	0.03	-0.12	-0.00	-0.00	0.00
908	nodo 30 (8)	0.02	0.03	-0.12	-0.00	-0.00	0.00
909	nodo 30 (9)	-0.02	0.04	-0.12	-0.00	-0.00	0.00
910	nodo 30 (10)	0.01	0.04	-0.12	-0.00	-0.00	0.00
911	nodo 30 (11)	0.00	0.03	-0.12	-0.00	-0.00	0.00
912	nodo 30 (12)	0.03	0.03	-0.12	-0.00	-0.00	0.00
913	nodo 30 (13)	-0.09	0.05	-0.12	-0.00	-0.00	0.00
914	nodo 30 (14)	-0.08	0.05	-0.12	-0.00	-0.00	0.00
915	nodo 30 (15)	-0.10	0.04	-0.12	-0.00	-0.00	0.00
916	nodo 30 (16)	-0.09	0.04	-0.12	-0.00	-0.00	0.00
917	nodo 30 (17)	-0.00	0.05	-0.12	-0.00	-0.00	0.00
918	nodo 30 (18)	-0.00	0.05	-0.12	-0.00	-0.00	0.00
919	nodo 30 (19)	-0.01	0.04	-0.12	-0.00	-0.00	0.00
920	nodo 30 (20)	-0.01	0.04	-0.12	-0.00	-0.00	0.00
921	nodo 30 (21)	-0.06	0.01	-0.12	-0.00	-0.00	0.00
922	nodo 30 (22)	-0.04	0.01	-0.12	-0.00	-0.00	-0.00
923	nodo 30 (23)	-0.04	-0.01	-0.12	-0.00	-0.00	-0.00
924	nodo 30 (24)	-0.02	-0.01	-0.12	-0.00	-0.00	-0.00
925	nodo 30 (25)	-0.06	0.01	-0.12	-0.00	-0.00	-0.00
926	nodo 30 (26)	-0.03	0.01	-0.12	-0.00	-0.00	-0.00
927	nodo 30 (27)	-0.04	-0.01	-0.12	-0.00	-0.00	-0.00
928	nodo 30 (28)	-0.01	-0.01	-0.12	-0.00	0.00	-0.00
929	nodo 30 (29)	-0.02	-0.00	-0.12	-0.00	-0.00	-0.00
930	nodo 30 (30)	-0.02	-0.00	-0.12	-0.00	-0.00	-0.00
931	nodo 30 (31)	-0.04	-0.01	-0.12	-0.00	-0.00	-0.00
932	nodo 30 (32)	-0.03	-0.02	-0.12	-0.00	-0.00	-0.00
933	nodo 30 (33)	0.06	-0.01	-0.12	-0.00	0.00	-0.00
934	nodo 30 (34)	0.06	-0.01	-0.12	-0.00	0.00	-0.00
935	nodo 30 (35)	0.05	-0.02	-0.12	-0.00	0.00	-0.00
936	nodo 30 (36)	0.05	-0.02	-0.12	-0.00	0.00	-0.00
937	nodo 30 (37)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
938	nodo 30 (38)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
939	nodo 30 (39)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
940	nodo 30 (40)	-0.02	0.02	-0.13	-0.00	-0.00	0.00

941	nodo 30 (41)	-0.02	0.02	-0.12	-0.00	-0.00	0.00
942	nodo 30 (42)	-0.02	0.02	-0.12	-0.00	-0.00	0.00
943	nodo 30 (43)	-0.02	0.02	-0.12	-0.00	-0.00	0.00
944	nodo 30 (44)	-0.02	0.02	-0.12	-0.00	-0.00	0.00
945	nodo 30 (45)	-0.02	0.02	-0.12	-0.00	-0.00	0.00
946	nodo 31 (1)	-0.02	0.02	-0.22	-0.00	-0.00	0.00
947	nodo 31 (2)	-0.02	0.02	-0.21	-0.00	-0.00	0.00
948	nodo 31 (3)	-0.02	0.02	-0.21	-0.00	-0.00	0.00
949	nodo 31 (4)	-0.02	0.02	-0.21	-0.00	-0.00	0.00
950	nodo 31 (5)	-0.00	0.00	-0.14	-0.00	-0.00	0.00
951	nodo 31 (6)	-0.01	0.00	-0.14	-0.00	-0.00	0.00
952	nodo 31 (7)	0.02	-0.01	-0.13	-0.00	0.00	0.00
953	nodo 31 (8)	0.01	-0.01	-0.13	-0.00	-0.00	0.00
954	nodo 31 (9)	0.00	0.03	-0.14	-0.00	-0.00	0.00
955	nodo 31 (10)	-0.00	0.03	-0.14	-0.00	-0.00	0.00
956	nodo 31 (11)	0.02	0.02	-0.13	-0.00	0.00	0.00
957	nodo 31 (12)	0.01	0.02	-0.13	-0.00	-0.00	0.00
958	nodo 31 (13)	-0.03	0.03	-0.16	-0.00	-0.00	0.00
959	nodo 31 (14)	-0.02	0.04	-0.15	-0.00	-0.00	0.00
960	nodo 31 (15)	-0.04	0.03	-0.16	-0.00	-0.00	0.00
961	nodo 31 (16)	-0.04	0.04	-0.16	-0.00	-0.00	0.00
962	nodo 31 (17)	-0.06	0.03	-0.15	-0.00	-0.00	0.00
963	nodo 31 (18)	-0.05	0.04	-0.15	-0.00	-0.00	0.00
964	nodo 31 (19)	-0.07	0.03	-0.16	-0.00	-0.00	0.00
965	nodo 31 (20)	-0.07	0.04	-0.16	-0.00	-0.00	0.00
966	nodo 31 (21)	-0.05	0.00	-0.16	-0.00	-0.00	0.00
967	nodo 31 (22)	-0.06	0.00	-0.16	-0.00	-0.00	0.00
968	nodo 31 (23)	-0.03	-0.01	-0.16	-0.00	-0.00	-0.00
969	nodo 31 (24)	-0.04	-0.01	-0.16	-0.00	-0.00	-0.00
970	nodo 31 (25)	-0.04	0.04	-0.16	-0.00	-0.00	-0.00
971	nodo 31 (26)	-0.05	0.04	-0.16	-0.00	-0.00	-0.00
972	nodo 31 (27)	-0.02	0.02	-0.16	-0.00	-0.00	-0.00
973	nodo 31 (28)	-0.03	0.02	-0.16	-0.00	-0.00	-0.00
974	nodo 31 (29)	0.04	-0.02	-0.13	-0.00	0.00	0.00
975	nodo 31 (30)	0.04	-0.01	-0.13	-0.00	0.00	-0.00
976	nodo 31 (31)	0.02	-0.01	-0.14	-0.00	0.00	-0.00
977	nodo 31 (32)	0.02	-0.01	-0.14	-0.00	0.00	-0.00
978	nodo 31 (33)	0.00	-0.01	-0.13	-0.00	-0.00	-0.00
979	nodo 31 (34)	0.01	-0.00	-0.13	-0.00	-0.00	-0.00
980	nodo 31 (35)	-0.01	-0.01	-0.14	-0.00	-0.00	-0.00
981	nodo 31 (36)	-0.01	-0.00	-0.14	-0.00	-0.00	-0.00
982	nodo 31 (37)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
983	nodo 31 (38)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
984	nodo 31 (39)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
985	nodo 31 (40)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
986	nodo 31 (41)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
987	nodo 31 (42)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
988	nodo 31 (43)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
989	nodo 31 (44)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
990	nodo 31 (45)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
991	nodo 32 (1)	-0.03	0.03	-0.16	-0.00	-0.00	0.00
992	nodo 32 (2)	-0.03	0.03	-0.16	-0.00	-0.00	0.00
993	nodo 32 (3)	-0.03	0.03	-0.16	-0.00	-0.00	0.00
994	nodo 32 (4)	-0.03	0.03	-0.16	-0.00	-0.00	0.00
995	nodo 32 (5)	-0.01	0.05	-0.11	-0.00	-0.00	0.00
996	nodo 32 (6)	-0.03	0.05	-0.11	-0.00	-0.00	0.00
997	nodo 32 (7)	0.02	0.03	-0.11	-0.00	-0.00	0.00

998	nodo 32 (8)	-0.00	0.03	-0.11	-0.00	-0.00	0.00
999	nodo 32 (9)	-0.00	0.05	-0.11	-0.00	-0.00	0.00
1000	nodo 32 (10)	-0.02	0.05	-0.11	-0.00	-0.00	0.00
1001	nodo 32 (11)	0.03	0.03	-0.11	-0.00	-0.00	0.00
1002	nodo 32 (12)	0.01	0.03	-0.11	-0.00	-0.00	0.00
1003	nodo 32 (13)	-0.03	0.06	-0.11	-0.00	-0.00	0.00
1004	nodo 32 (14)	-0.03	0.06	-0.11	-0.00	-0.00	0.00
1005	nodo 32 (15)	-0.04	0.05	-0.11	-0.00	-0.00	0.00
1006	nodo 32 (16)	-0.04	0.04	-0.11	-0.00	-0.00	0.00
1007	nodo 32 (17)	-0.09	0.05	-0.11	-0.00	-0.00	0.00
1008	nodo 32 (18)	-0.09	0.05	-0.11	-0.00	-0.00	0.00
1009	nodo 32 (19)	-0.10	0.04	-0.11	-0.00	-0.00	0.00
1010	nodo 32 (20)	-0.10	0.04	-0.11	-0.00	-0.00	0.00
1011	nodo 32 (21)	-0.05	0.01	-0.11	-0.00	-0.00	0.00
1012	nodo 32 (22)	-0.07	0.01	-0.11	-0.00	-0.00	-0.00
1013	nodo 32 (23)	-0.02	-0.01	-0.11	-0.00	-0.00	-0.00
1014	nodo 32 (24)	-0.04	-0.01	-0.11	-0.00	-0.00	-0.00
1015	nodo 32 (25)	-0.04	0.01	-0.11	-0.00	-0.00	-0.00
1016	nodo 32 (26)	-0.06	0.00	-0.11	-0.00	-0.00	-0.00
1017	nodo 32 (27)	-0.01	-0.01	-0.11	-0.00	-0.00	-0.00
1018	nodo 32 (28)	-0.03	-0.01	-0.11	-0.00	-0.00	-0.00
1019	nodo 32 (29)	0.06	-0.00	-0.11	-0.00	0.00	-0.00
1020	nodo 32 (30)	0.06	-0.01	-0.11	-0.00	0.00	-0.00
1021	nodo 32 (31)	0.05	-0.02	-0.11	-0.00	0.00	-0.00
1022	nodo 32 (32)	0.05	-0.02	-0.11	-0.00	0.00	-0.00
1023	nodo 32 (33)	-0.00	-0.01	-0.11	-0.00	-0.00	-0.00
1024	nodo 32 (34)	-0.00	-0.01	-0.11	-0.00	-0.00	-0.00
1025	nodo 32 (35)	-0.02	-0.02	-0.11	-0.00	-0.00	-0.00
1026	nodo 32 (36)	-0.01	-0.02	-0.11	-0.00	-0.00	-0.00
1027	nodo 32 (37)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1028	nodo 32 (38)	-0.02	0.02	-0.12	-0.00	-0.00	0.00
1029	nodo 32 (39)	-0.02	0.02	-0.12	-0.00	-0.00	0.00
1030	nodo 32 (40)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1031	nodo 32 (41)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1032	nodo 32 (42)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1033	nodo 32 (43)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1034	nodo 32 (44)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1035	nodo 32 (45)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1036	nodo 33 (1)	-0.03	0.03	-0.13	-0.00	-0.00	0.00
1037	nodo 33 (2)	-0.03	0.03	-0.13	-0.00	-0.00	0.00
1038	nodo 33 (3)	-0.03	0.03	-0.13	-0.00	-0.00	0.00
1039	nodo 33 (4)	-0.03	0.03	-0.13	-0.00	-0.00	0.00
1040	nodo 33 (5)	-0.03	0.06	-0.09	-0.00	-0.00	0.00
1041	nodo 33 (6)	-0.03	0.06	-0.09	-0.00	-0.00	0.00
1042	nodo 33 (7)	0.01	0.04	-0.10	-0.00	-0.00	0.00
1043	nodo 33 (8)	0.01	0.04	-0.10	-0.00	-0.00	0.00
1044	nodo 33 (9)	-0.02	0.01	-0.09	-0.00	-0.00	0.00
1045	nodo 33 (10)	-0.02	0.01	-0.10	-0.00	-0.00	0.00
1046	nodo 33 (11)	0.02	-0.01	-0.10	-0.00	-0.00	0.00
1047	nodo 33 (12)	0.02	-0.01	-0.10	-0.00	-0.00	0.00
1048	nodo 33 (13)	-0.08	0.07	-0.08	-0.00	-0.00	0.00
1049	nodo 33 (14)	-0.08	0.05	-0.08	-0.00	-0.00	0.00
1050	nodo 33 (15)	-0.09	0.07	-0.08	-0.00	-0.00	0.00
1051	nodo 33 (16)	-0.09	0.05	-0.08	-0.00	-0.00	0.00
1052	nodo 33 (17)	-0.09	0.06	-0.09	-0.00	-0.00	0.00
1053	nodo 33 (18)	-0.08	0.05	-0.09	-0.00	-0.00	0.00
1054	nodo 33 (19)	-0.10	0.06	-0.08	-0.00	-0.00	0.00

1055	nodo 33 (20)	-0.09	0.05	-0.08	-0.00	-0.00	0.00
1056	nodo 33 (21)	-0.07	0.06	-0.08	-0.00	-0.00	-0.00
1057	nodo 33 (22)	-0.07	0.05	-0.08	-0.00	-0.00	-0.00
1058	nodo 33 (23)	-0.03	0.03	-0.08	-0.00	-0.00	-0.00
1059	nodo 33 (24)	-0.03	0.03	-0.09	-0.00	-0.00	-0.00
1060	nodo 33 (25)	-0.06	0.01	-0.08	-0.00	-0.00	-0.00
1061	nodo 33 (26)	-0.06	0.00	-0.08	-0.00	-0.00	-0.00
1062	nodo 33 (27)	-0.02	-0.02	-0.09	-0.00	-0.00	-0.00
1063	nodo 33 (28)	-0.02	-0.02	-0.09	-0.00	-0.00	-0.00
1064	nodo 33 (29)	0.05	-0.00	-0.10	-0.00	0.00	-0.00
1065	nodo 33 (30)	0.05	-0.02	-0.10	-0.00	0.00	-0.00
1066	nodo 33 (31)	0.04	-0.01	-0.09	-0.00	0.00	-0.00
1067	nodo 33 (32)	0.04	-0.02	-0.09	-0.00	0.00	-0.00
1068	nodo 33 (33)	0.05	-0.01	-0.10	-0.00	0.00	-0.00
1069	nodo 33 (34)	0.05	-0.03	-0.10	-0.00	0.00	-0.00
1070	nodo 33 (35)	0.04	-0.01	-0.10	-0.00	0.00	-0.00
1071	nodo 33 (36)	0.04	-0.03	-0.10	-0.00	0.00	-0.00
1072	nodo 33 (37)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
1073	nodo 33 (38)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
1074	nodo 33 (39)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
1075	nodo 33 (40)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
1076	nodo 33 (41)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
1077	nodo 33 (42)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
1078	nodo 33 (43)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
1079	nodo 33 (44)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
1080	nodo 33 (45)	-0.02	0.02	-0.09	-0.00	-0.00	0.00
1081	nodo 34 (1)	-0.03	0.02	-0.21	-0.00	-0.00	0.00
1082	nodo 34 (2)	-0.03	0.02	-0.20	-0.00	-0.00	0.00
1083	nodo 34 (3)	-0.03	0.02	-0.20	-0.00	-0.00	0.00
1084	nodo 34 (4)	-0.03	0.02	-0.20	-0.00	-0.00	0.00
1085	nodo 34 (5)	-0.01	0.04	-0.14	-0.00	-0.00	0.00
1086	nodo 34 (6)	-0.01	0.04	-0.14	-0.00	-0.00	0.00
1087	nodo 34 (7)	0.00	0.03	-0.13	-0.00	-0.00	0.00
1088	nodo 34 (8)	0.00	0.03	-0.13	-0.00	-0.00	0.00
1089	nodo 34 (9)	0.00	0.04	-0.14	-0.00	-0.00	0.00
1090	nodo 34 (10)	0.00	0.04	-0.14	-0.00	-0.00	0.00
1091	nodo 34 (11)	0.01	0.02	-0.13	-0.00	-0.00	0.00
1092	nodo 34 (12)	0.01	0.02	-0.13	-0.00	-0.00	0.00
1093	nodo 34 (13)	-0.03	0.05	-0.16	-0.00	-0.00	0.00
1094	nodo 34 (14)	-0.03	0.05	-0.15	-0.00	-0.00	0.00
1095	nodo 34 (15)	-0.04	0.04	-0.16	-0.00	-0.00	0.00
1096	nodo 34 (16)	-0.04	0.04	-0.16	-0.00	-0.00	0.00
1097	nodo 34 (17)	-0.03	0.05	-0.15	-0.00	-0.00	0.00
1098	nodo 34 (18)	-0.02	0.05	-0.15	-0.00	-0.00	0.00
1099	nodo 34 (19)	-0.04	0.03	-0.16	-0.00	-0.00	0.00
1100	nodo 34 (20)	-0.03	0.03	-0.16	-0.00	-0.00	0.00
1101	nodo 34 (21)	-0.05	0.00	-0.16	-0.00	-0.00	0.00
1102	nodo 34 (22)	-0.05	0.00	-0.16	-0.00	-0.00	-0.00
1103	nodo 34 (23)	-0.04	-0.01	-0.15	0.00	-0.00	-0.00
1104	nodo 34 (24)	-0.04	-0.01	-0.15	0.00	-0.00	-0.00
1105	nodo 34 (25)	-0.04	0.00	-0.16	-0.00	-0.00	-0.00
1106	nodo 34 (26)	-0.04	0.00	-0.16	-0.00	-0.00	-0.00
1107	nodo 34 (27)	-0.03	-0.01	-0.15	0.00	-0.00	-0.00
1108	nodo 34 (28)	-0.03	-0.01	-0.15	0.00	-0.00	-0.00
1109	nodo 34 (29)	-0.00	-0.01	-0.13	-0.00	-0.00	-0.00
1110	nodo 34 (30)	0.00	-0.01	-0.13	-0.00	-0.00	-0.00
1111	nodo 34 (31)	-0.01	-0.02	-0.13	0.00	-0.00	-0.00

1112	nodo 34 (32)	-0.01	-0.02	-0.13	0.00	-0.00	-0.00
1113	nodo 34 (33)	0.00	-0.01	-0.13	-0.00	-0.00	-0.00
1114	nodo 34 (34)	0.01	-0.01	-0.13	-0.00	-0.00	-0.00
1115	nodo 34 (35)	-0.01	-0.02	-0.13	0.00	-0.00	-0.00
1116	nodo 34 (36)	-0.01	-0.02	-0.13	0.00	-0.00	-0.00
1117	nodo 34 (37)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
1118	nodo 34 (38)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
1119	nodo 34 (39)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
1120	nodo 34 (40)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
1121	nodo 34 (41)	-0.02	0.01	-0.15	-0.00	-0.00	0.00
1122	nodo 34 (42)	-0.02	0.01	-0.14	-0.00	-0.00	0.00
1123	nodo 34 (43)	-0.02	0.01	-0.14	-0.00	-0.00	0.00
1124	nodo 34 (44)	-0.02	0.01	-0.14	-0.00	-0.00	0.00
1125	nodo 34 (45)	-0.02	0.01	-0.14	-0.00	-0.00	0.00
1126	nodo 35 (1)	-0.03	0.02	-0.19	-0.00	-0.00	0.00
1127	nodo 35 (2)	-0.03	0.02	-0.19	-0.00	-0.00	0.00
1128	nodo 35 (3)	-0.03	0.02	-0.19	-0.00	-0.00	0.00
1129	nodo 35 (4)	-0.03	0.02	-0.19	-0.00	-0.00	0.00
1130	nodo 35 (5)	-0.01	0.05	-0.15	-0.00	-0.00	0.00
1131	nodo 35 (6)	-0.01	0.05	-0.15	-0.00	-0.00	0.00
1132	nodo 35 (7)	-0.00	0.03	-0.14	-0.00	-0.00	0.00
1133	nodo 35 (8)	0.00	0.03	-0.14	-0.00	-0.00	0.00
1134	nodo 35 (9)	0.00	0.08	-0.15	-0.00	-0.00	0.00
1135	nodo 35 (10)	0.00	0.08	-0.15	-0.00	-0.00	0.00
1136	nodo 35 (11)	0.01	0.06	-0.14	-0.00	-0.00	0.00
1137	nodo 35 (12)	0.01	0.06	-0.14	-0.00	-0.00	0.00
1138	nodo 35 (13)	-0.03	0.06	-0.15	-0.00	-0.00	0.00
1139	nodo 35 (14)	-0.03	0.07	-0.15	-0.00	-0.00	0.00
1140	nodo 35 (15)	-0.04	0.04	-0.15	-0.00	-0.00	0.00
1141	nodo 35 (16)	-0.04	0.04	-0.15	-0.00	-0.00	0.00
1142	nodo 35 (17)	-0.03	0.05	-0.15	-0.00	-0.00	0.00
1143	nodo 35 (18)	-0.02	0.06	-0.15	-0.00	-0.00	0.00
1144	nodo 35 (19)	-0.04	0.03	-0.14	-0.00	-0.00	0.00
1145	nodo 35 (20)	-0.04	0.04	-0.14	-0.00	-0.00	0.00
1146	nodo 35 (21)	-0.05	-0.02	-0.13	0.00	-0.00	0.00
1147	nodo 35 (22)	-0.05	-0.02	-0.13	0.00	-0.00	-0.00
1148	nodo 35 (23)	-0.04	-0.04	-0.12	0.00	-0.00	-0.00
1149	nodo 35 (24)	-0.04	-0.04	-0.12	0.00	-0.00	-0.00
1150	nodo 35 (25)	-0.04	0.00	-0.13	-0.00	-0.00	-0.00
1151	nodo 35 (26)	-0.04	0.00	-0.13	-0.00	-0.00	-0.00
1152	nodo 35 (27)	-0.03	-0.02	-0.12	0.00	-0.00	-0.00
1153	nodo 35 (28)	-0.03	-0.02	-0.12	0.00	-0.00	-0.00
1154	nodo 35 (29)	-0.00	-0.01	-0.12	-0.00	-0.00	-0.00
1155	nodo 35 (30)	0.00	0.00	-0.12	-0.00	-0.00	-0.00
1156	nodo 35 (31)	-0.02	-0.03	-0.11	0.00	-0.00	-0.00
1157	nodo 35 (32)	-0.01	-0.02	-0.11	0.00	-0.00	-0.00
1158	nodo 35 (33)	0.00	-0.01	-0.12	0.00	-0.00	-0.00
1159	nodo 35 (34)	0.01	-0.00	-0.12	-0.00	-0.00	-0.00
1160	nodo 35 (35)	-0.01	-0.03	-0.11	0.00	-0.00	-0.00
1161	nodo 35 (36)	-0.01	-0.02	-0.11	0.00	-0.00	-0.00
1162	nodo 35 (37)	-0.02	0.02	-0.14	-0.00	-0.00	0.00
1163	nodo 35 (38)	-0.02	0.02	-0.14	-0.00	-0.00	0.00
1164	nodo 35 (39)	-0.02	0.02	-0.14	-0.00	-0.00	0.00
1165	nodo 35 (40)	-0.02	0.02	-0.14	-0.00	-0.00	0.00
1166	nodo 35 (41)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
1167	nodo 35 (42)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
1168	nodo 35 (43)	-0.02	0.02	-0.13	-0.00	-0.00	0.00

1169	nodo 35 (44)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
1170	nodo 35 (45)	-0.02	0.02	-0.13	-0.00	-0.00	0.00
1171	nodo 36 (1)	-0.03	0.03	-0.16	-0.00	-0.00	0.00
1172	nodo 36 (2)	-0.03	0.03	-0.16	-0.00	-0.00	0.00
1173	nodo 36 (3)	-0.03	0.03	-0.16	-0.00	-0.00	0.00
1174	nodo 36 (4)	-0.03	0.03	-0.16	-0.00	-0.00	0.00
1175	nodo 36 (5)	-0.01	0.06	-0.13	-0.00	-0.00	0.00
1176	nodo 36 (6)	-0.01	0.06	-0.12	-0.00	-0.00	0.00
1177	nodo 36 (7)	-0.00	0.04	-0.12	-0.00	-0.00	0.00
1178	nodo 36 (8)	-0.00	0.03	-0.12	-0.00	-0.00	0.00
1179	nodo 36 (9)	0.00	0.01	-0.12	-0.00	-0.00	0.00
1180	nodo 36 (10)	0.00	0.00	-0.12	-0.00	-0.00	0.00
1181	nodo 36 (11)	0.01	-0.02	-0.12	0.00	-0.00	0.00
1182	nodo 36 (12)	0.01	-0.02	-0.12	0.00	-0.00	0.00
1183	nodo 36 (13)	-0.03	0.07	-0.13	-0.00	-0.00	0.00
1184	nodo 36 (14)	-0.03	0.05	-0.13	-0.00	-0.00	0.00
1185	nodo 36 (15)	-0.05	0.07	-0.12	-0.00	-0.00	0.00
1186	nodo 36 (16)	-0.04	0.05	-0.12	-0.00	-0.00	0.00
1187	nodo 36 (17)	-0.03	0.06	-0.13	-0.00	-0.00	0.00
1188	nodo 36 (18)	-0.02	0.05	-0.13	-0.00	-0.00	0.00
1189	nodo 36 (19)	-0.04	0.06	-0.12	-0.00	-0.00	0.00
1190	nodo 36 (20)	-0.04	0.05	-0.12	-0.00	-0.00	0.00
1191	nodo 36 (21)	-0.05	0.06	-0.10	-0.00	-0.00	-0.00
1192	nodo 36 (22)	-0.05	0.05	-0.10	-0.00	-0.00	-0.00
1193	nodo 36 (23)	-0.04	0.03	-0.10	-0.00	-0.00	-0.00
1194	nodo 36 (24)	-0.04	0.03	-0.10	-0.00	-0.00	-0.00
1195	nodo 36 (25)	-0.04	0.00	-0.10	-0.00	-0.00	-0.00
1196	nodo 36 (26)	-0.04	0.00	-0.10	-0.00	-0.00	-0.00
1197	nodo 36 (27)	-0.03	-0.02	-0.09	0.00	-0.00	-0.00
1198	nodo 36 (28)	-0.03	-0.02	-0.09	0.00	-0.00	-0.00
1199	nodo 36 (29)	-0.01	-0.01	-0.10	-0.00	-0.00	-0.00
1200	nodo 36 (30)	-0.00	-0.02	-0.10	0.00	-0.00	-0.00
1201	nodo 36 (31)	-0.02	-0.01	-0.09	-0.00	-0.00	-0.00
1202	nodo 36 (32)	-0.01	-0.02	-0.09	0.00	-0.00	-0.00
1203	nodo 36 (33)	0.00	-0.01	-0.10	-0.00	-0.00	-0.00
1204	nodo 36 (34)	0.00	-0.03	-0.10	0.00	-0.00	-0.00
1205	nodo 36 (35)	-0.01	-0.01	-0.09	0.00	-0.00	-0.00
1206	nodo 36 (36)	-0.01	-0.03	-0.09	0.00	-0.00	-0.00
1207	nodo 36 (37)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1208	nodo 36 (38)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1209	nodo 36 (39)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1210	nodo 36 (40)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1211	nodo 36 (41)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1212	nodo 36 (42)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1213	nodo 36 (43)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1214	nodo 36 (44)	-0.02	0.02	-0.11	-0.00	-0.00	0.00
1215	nodo 36 (45)	-0.02	0.02	-0.11	-0.00	-0.00	0.00

Armature pali:

Armature pali nodo 1

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature

1	1	0.00	-321.24	-1178.8	0.0	0.11	10 ø 16

Armature pali nodo 2

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	46	0.00	-307.74	-1221.5	0.0	0.11	10 ø 16

Armature pali nodo 3

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	118	0.00	-188.25	0.0	-2412.5	0.12	10 ø 16

Armature pali nodo 5

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	136	0.00	-381.01	-1045.0	0.0	0.13	10 ø 16

Armature pali nodo 6

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	181	0.00	-371.72	-936.0	0.0	0.12	10 ø 16

Armature pali nodo 7

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	253	0.00	-230.07	0.0	-2410.4	0.13	10 ø 16

Armature pali nodo 9

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	271	0.00	-436.40	-819.3	0.0	0.14	10 ø 16

Armature pali nodo 10

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	316	0.00	-418.89	-276.6	0.0	0.12	10 ø 16

Armature pali nodo 11

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	361	0.00	-379.16	988.0	0.0	0.13	10 ø 16

Armature pali nodo 14

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	406	0.00	-371.17	0.0	1236.7	0.13	10 ø 16

Armature pali nodo 16

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	451	0.00	-443.97	0.0	498.2	0.13	10 ø 16

Armature pali nodo 18

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	496	0.00	-488.70	-443.8	0.0	0.15	10 ø 16

Armature pali nodo 19

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	541	0.00	-364.43	0.0	1389.9	0.13	10 ø 16

Armature pali nodo 23

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	586	0.00	-455.37	0.0	648.6	0.14	10 ø 16

Armature pali nodo 24

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	631	0.00	-357.51	0.0	1187.5	0.12	10 ø 16

Armature pali nodo 25

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	676	0.00	-343.81	0.0	1004.8	0.12	10 ø 16

Armature pali nodo 26

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	721	0.00	-517.72	-235.2	0.0	0.15	10 ø 16

Armature pali nodo 27

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	801	0.00	-228.21	-2041.2	0.0	0.11	10 ø 16

Armature pali nodo 28

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	811	0.00	-454.22	0.0	642.9	0.14	10 ø 16

Armature pali nodo 29

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	891	0.00	-192.82	-2182.2	0.0	0.11	10 ø 16

Armature pali nodo 30

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	901	0.00	-438.13	0.0	572.2	0.13	10 ø 16

Armature pali nodo 31

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	946	0.00	-525.89	-116.5	0.0	0.15	10 ø 16

Armature pali nodo 32

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	991	0.00	-396.64	0.0	1042.7	0.13	10 ø 16

Armature pali nodo 33

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	1036	0.00	-321.31	0.0	1367.7	0.12	10 ø 16

Armature pali nodo 34

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	1081	0.00	-511.27	0.0	142.9	0.15	10 ø 16

Armature pali nodo 35

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	1126	0.00	-468.84	0.0	465.1	0.14	10 ø 16

Armature pali nodo 36

Palo	Comb.	Quota [m]	N [kN]	Mx [kgm]	My [kgm]	Sd/Sr	Armature
1	1171	0.00	-390.59	0.0	880.3	0.13	10 ø 16

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
    -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
    -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.
- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche setti in c.a.

Modalità di verifica

Le pareti in c.a. vengono verificate come setti/diaframmi o nuclei.

La verifica dei setti/diaframmi viene condotta a pressoflessione retta e a taglio. Viene calcolato lo sforzo normale medio agente sul setto e il momento ad esso associato. Quando previsto, sono introdotti ferri verticali aggiuntivi da disporsi sulle estremità del setto stesso.

La verifica dei nuclei viene condotta a pressoflessione deviata sulla sezione complessiva e a taglio sulle singole pareti costituenti il nucleo.

Sezioni Impiegate:

Sez. Num.	Info	Dimensioni	Criterio	Calcestruzzo	γ_M	F.C.	f_{ck} [kg/cm²]	f_{cd} [kg/cm²]	σ_{RARE} [kg/cm²]	σ_{FREQ} [kg/cm²]	σ_{QP} [kg/cm²]	Acciaio	γ_M	F.C.	f_{yk} [kg/cm²]	f_{yd} [kg/cm²]	σ_{yRARE} [kg/cm²]	σ_{yFREQ} [kg/cm²]	σ_{yQP} [kg/cm²]	Copriferro [cm]	cotg θ
1	Muro SETTO S=20	s 20 [cm]	Verset	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0	4500.0	3.00	1.00

Taglio di progetto pari al taglio di calcolo

Attenzione non è stato controllato che il valore dell'azione assiale ridotta $N_E > 0.4\ N_R$

Verifica a taglio-compressione del calcestruzzo dell'anima nelle zone dissipative: fattore riduttivo 0.40

Verifiche Setti:

Setto : 2 38 37 1 / Sezione 1

B = 275.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	5	-110.85	0.0	-15071.4	0.04
Sommità	5	-58.60	0.0	-2639.9	0.01

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-96.19	0.0	-3022.9	-2.7
$\sigma_{Cls,Med}$	45	-96.19	0.0	-3022.9	-1.6
$\sigma_{s,t}$	45	-96.19	0.0	-3022.9	-8.1
$\sigma_{s,c}$	38	-104.07	0.0	-3720.3	-45.2
Sommita					
$\sigma_{Cls,Max}$	45	-43.94	0.0	-1245.4	-1.2
$\sigma_{Cls,Med}$	45	-43.94	0.0	-1245.4	-0.7
$\sigma_{s,t}$	37	-48.36	0.0	-1209.8	-5.7
$\sigma_{s,c}$	38	-51.82	0.0	-1072.8	-18.4

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
2 37	5	46.52	1.00	46.52	-110.85	-15071.4	1734.41	481.49	0.00	0.10

Setto : 1 37 39 5 / Sezione 1

B = 215.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	7	-44.52	0.0	-9426.2	0.06
Sommità	5	9.44	0.0	-7721.0	0.08

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]

Base						
$\sigma_{Cls,Max}$	45	-64.63	0.0	-7552.5	-8.5
$\sigma_{Cls,Med}$	45	-64.63	0.0	-7552.5	-4.3
$\sigma_{s,t}$	38	-66.12	0.0	-8143.7	214.3
$\sigma_{s,c}$	38	-66.12	0.0	-8143.7	-133.0
Sommita					
$\sigma_{Cls,Max}$	45	-23.78	0.0	-6297.5	-7.6
$\sigma_{Cls,Med}$	45	-23.78	0.0	-6297.5	-3.8
$\sigma_{s,t}$	38	-25.27	0.0	-6866.0	306.5
$\sigma_{s,c}$	38	-25.27	0.0	-6866.0	-117.5

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
1 39	1	55.97	1.00	55.97	-89.44	-11532.5	1351.82	375.28	0.00	0.15

Setto : 6 40 39 5 / Sezione 1

B = 275.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	28	-38.86	0.0	12058.7	0.05
Sommità	26	13.19	0.0	4832.5	0.04

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-64.34	0.0	1644.5	-1.7
$\sigma_{Cls,Med}$	45	-64.34	0.0	1644.5	-1.1
$\sigma_{s,t}$	37	-68.19	0.0	1659.2	-8.3
$\sigma_{s,c}$	38	-73.08	0.0	1525.5	-26.1
Sommita					
$\sigma_{Cls,Max}$	45	-12.09	0.0	2573.6	-1.8
$\sigma_{Cls,Med}$	45	-12.09	0.0	2573.6	-0.9
$\sigma_{s,t}$	40	-16.75	0.0	3048.7	55.1
$\sigma_{s,c}$	38	-20.83	0.0	3367.8	-33.5

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
6 39	28	-44.27	1.00	-44.27	-38.86	12058.7	1734.41	481.49	0.00	0.09

Setto : 5 39 41 9 / Sezione 1

B = 225.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	7	-38.28	0.0	-9163.8	0.06
Sommità	7	4.47	0.0	-8985.4	0.08

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-52.37	0.0	-5353.3	-5.3
$\sigma_{Cls,Med}$	45	-52.37	0.0	-5353.3	-2.7
$\sigma_{s,t}$	38	-53.87	0.0	-5793.5	108.3
$\sigma_{s,c}$	38	-53.87	0.0	-5793.5	-84.0
Sommita					
$\sigma_{Cls,Max}$	45	-9.62	0.0	-5106.1	-5.7

$\sigma_{Cls,Med}$	45	-9.62	0.0	-5106.1	-2.8
$\sigma_{s,t}$	38	-11.12	0.0	-5544.7	256.9
$\sigma_{s,c}$	38	-11.12	0.0	-5544.7	-86.8

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
5 41	29	49.09	1.00	49.09	-62.28	-9403.0	1415.58	392.98	0.00	0.12

Setto : 18 44 41 9 / Sezione 1

B = 287.94 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	29	-70.43	0.0	4834.8	0.01
Sommità	7	10.52	0.0	3945.8	0.03

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-59.75	0.0	-61.8	-1.0
$\sigma_{Cls,Med}$	45	-59.75	0.0	-61.8	-0.9
$\sigma_{s,t}$	40	-60.64	0.0	107.4	-13.8
$\sigma_{s,c}$	38	-61.47	0.0	139.8	-15.2
Sommita					
$\sigma_{Cls,Max}$	45	-5.04	0.0	-111.5	-0.1
$\sigma_{Cls,Med}$	38	-6.76	0.0	67.2	-0.1
$\sigma_{s,t}$	40	-5.94	0.0	37.4	-1.2
$\sigma_{s,c}$	38	-6.76	0.0	67.2	-1.9

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
18 41	20	23.93	1.00	23.93	-48.68	-4815.7	1816.93	504.40	0.00	0.05

Setto : 10 42 41 9 / Sezione 1

B = 275.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	28	-28.64	0.0	10078.4	0.04
Sommità	36	23.76	0.0	3885.0	0.04

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-53.90	0.0	-79.1	-0.9
$\sigma_{Cls,Med}$	45	-53.90	0.0	-79.1	-0.9
$\sigma_{s,t}$	37	-57.61	0.0	-57.3	-14.0
$\sigma_{s,c}$	38	-62.46	0.0	-179.9	-16.4
Sommita					
$\sigma_{Cls,Max}$	38	-10.21	0.0	2800.7	-2.0
$\sigma_{Cls,Med}$	38	-10.21	0.0	2800.7	-1.0
$\sigma_{s,t}$	40	-5.99	0.0	2485.1	69.3
$\sigma_{s,c}$	38	-10.21	0.0	2800.7	-28.9

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
10 41	36	-36.58	1.00	-36.58	-28.49	10028.6	1734.41	481.49	0.00	0.08

Setto : 16 43 44 18 / Sezione 1

B = 275.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	10	-87.46	0.0	-11458.3	0.03
Sommità	2	-39.56	0.0	1930.1	0.01

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-69.86	0.0	-4829.3	-3.0
$\sigma_{Cls,Med}$	45	-69.86	0.0	-4829.3	-1.5
$\sigma_{s,t}$	37	-74.23	0.0	-5005.4	11.8
$\sigma_{s,c}$	38	-79.18	0.0	-5195.1	-48.3
Sommita					
$\sigma_{Cls,Max}$	38	-26.93	0.0	1247.4	-0.9
$\sigma_{Cls,Med}$	38	-26.93	0.0	1247.4	-0.4
$\sigma_{s,t}$	45	-17.61	0.0	472.0	-1.9
$\sigma_{s,c}$	38	-26.93	0.0	1247.4	-13.2

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
16 44	9	29.69	1.00	29.69	-87.44	-11456.2	1734.41	481.49	0.00	0.06

Setto : 26 46 44 18 / Sezione 1

B = 287.94 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	17	-69.94	0.0	-7577.7	0.02
Sommità	6	5.84	0.0	-5973.5	0.04

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-62.98	0.0	-3194.9	-2.0
$\sigma_{Cls,Med}$	45	-62.98	0.0	-3194.9	-1.0
$\sigma_{s,t}$	41	-63.15	0.0	-3216.8	0.4
$\sigma_{s,c}$	38	-64.60	0.0	-3183.9	-30.4
Sommita					
$\sigma_{Cls,Max}$	45	-8.27	0.0	-2846.5	-1.9
$\sigma_{Cls,Med}$	45	-8.27	0.0	-2846.5	-0.9
$\sigma_{s,t}$	37	-9.23	0.0	-2853.6	64.0
$\sigma_{s,c}$	37	-9.23	0.0	-2853.6	-27.0

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
26 44	17	37.52	1.00	37.52	-69.94	-7577.7	1816.92	504.40	0.00	0.07

Setto : 26 46 45 23 / Sezione 1

B = 275.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	11	-92.68	0.0	12273.7	0.04
Sommità	2	-51.22	0.0	-83.5	0.01

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-77.93	0.0	6669.9	-4.1
$\sigma_{Cls,Med}$	45	-77.93	0.0	6669.9	-2.1
$\sigma_{s,t}$	37	-82.48	0.0	6901.4	32.5
$\sigma_{s,c}$	38	-87.47	0.0	7107.4	-64.7
Sommita					
$\sigma_{Cls,Max}$	45	-25.68	0.0	828.6	-0.7
$\sigma_{Cls,Med}$	38	-35.22	0.0	84.6	-0.6
$\sigma_{s,t}$	37	-30.23	0.0	467.5	-5.1
$\sigma_{s,c}$	37	-30.23	0.0	467.5	-9.9

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
26 45	11	-33.55	1.00	-33.55	-92.68	12273.7	1734.41	481.49	0.00	0.07

Setto : 31 49 46 26 / Sezione 1

B = 287.94 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	18	-74.43	0.0	-5329.9	0.01
Sommità	10	1.56	0.0	-4226.4	0.02

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-67.54	0.0	-1029.1	-1.4
$\sigma_{Cls,Med}$	45	-67.54	0.0	-1029.1	-1.1
$\sigma_{s,t}$	40	-68.44	0.0	-1078.5	-11.1
$\sigma_{s,c}$	38	-69.30	0.0	-1088.4	-21.6
Sommita					
$\sigma_{Cls,Max}$	45	-12.83	0.0	-802.9	-0.5
$\sigma_{Cls,Med}$	45	-12.83	0.0	-802.9	-0.2
$\sigma_{s,t}$	40	-13.73	0.0	-843.3	1.0
$\sigma_{s,c}$	38	-14.59	0.0	-851.4	-7.6

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
31 46	18	26.13	1.00	26.13	-74.43	-5329.9	1816.92	504.40	0.00	0.05

Setto : 31 49 47 28 / Sezione 1

B = 275.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	12	-89.83	0.0	11412.7	0.03
Sommità	2	-45.96	0.0	-57.1	0.01

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-74.22	0.0	5546.7	-3.4
$\sigma_{Cls,Med}$	45	-74.22	0.0	5546.7	-1.7
$\sigma_{s,t}$	37	-78.58	0.0	5727.1	17.8
$\sigma_{s,c}$	38	-83.53	0.0	5919.2	-54.3
Sommita					
$\sigma_{Cls,Max}$	45	-21.97	0.0	822.1	-0.7
$\sigma_{Cls,Med}$	38	-31.28	0.0	80.5	-0.5
$\sigma_{s,t}$	37	-26.33	0.0	459.9	-4.1
$\sigma_{s,c}$	37	-26.33	0.0	459.9	-8.9

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
31 47	12	-31.87	1.00	-31.87	-89.83	11412.7	1734.41	481.49	0.00	0.07

Setto : 30 48 52 34 / Sezione 1

B = 275.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	34	-79.55	0.0	-9379.4	0.03
Sommità	15	9.77	0.0	874.6	0.01

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-60.35	0.0	-2045.1	-1.7
$\sigma_{Cls,Med}$	45	-60.35	0.0	-2045.1	-1.0
$\sigma_{s,t}$	37	-64.10	0.0	-2065.0	-5.2
$\sigma_{s,c}$	38	-68.86	0.0	-2205.5	-28.6
Sommita					
$\sigma_{Cls,Max}$	38	-16.61	0.0	1141.9	-0.7
$\sigma_{Cls,Med}$	38	-16.61	0.0	1141.9	-0.4
$\sigma_{s,t}$	38	-16.61	0.0	1141.9	2.9
$\sigma_{s,c}$	38	-16.61	0.0	1141.9	-10.5

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
30 52	34	25.03	1.00	25.03	-79.55	-9379.4	1734.41	481.49	0.00	0.05

Setto : 34 52 49 31 / Sezione 1

B = 287.94 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	23	-83.01	0.0	5554.0	0.02
Sommità	31	-4.76	0.0	4501.1	0.02

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-71.03	0.0	1151.3	-1.5
$\sigma_{Cls,Med}$	45	-71.03	0.0	1151.3	-1.1
$\sigma_{s,t}$	37	-72.29	0.0	1086.2	-12.0
$\sigma_{s,c}$	37	-72.29	0.0	1086.2	-22.3

Sommita						
$\sigma_{Cls,Max}$	45		-16.33	0.0	1246.4	-0.7
$\sigma_{Cls,Med}$	45		-16.33	0.0	1246.4	-0.4
$\sigma_{s,t}$	43		-16.33	0.0	1246.4	3.6
$\sigma_{s,c}$	37		-17.58	0.0	1192.7	-10.1

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
34 49	23	-28.24	1.00	-28.24	-83.01	5554.0	1816.92	504.40	0.00	0.06

Setto : 35 53 50 32 / Sezione 1

B = 275.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	15	-19.36	0.0	-10464.8	0.05
Sommità	15	32.89	0.0	-3486.6	0.04

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-46.49	0.0	-397.1	-0.9
$\sigma_{Cls,Med}$	45	-46.49	0.0	-397.1	-0.8
$\sigma_{s,t}$	37	-49.86	0.0	-452.6	-10.0
$\sigma_{s,c}$	38	-54.44	0.0	-352.5	-15.3
Sommita					
$\sigma_{Cls,Max}$	38	-2.19	0.0	-2551.2	-1.9
$\sigma_{Cls,Med}$	38	-2.19	0.0	-2551.2	-0.9
$\sigma_{s,t}$	37	2.39	0.0	-2172.0	87.1
$\sigma_{s,c}$	38	-2.19	0.0	-2551.2	-26.6

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
35 50	15	36.63	1.00	36.63	-19.36	-10464.8	1734.41	481.49	0.00	0.08

Setto : 36 54 51 33 / Sezione 1

B = 275.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	13	-54.90	0.0	-16324.2	0.07
Sommità	23	-18.98	0.0	3821.5	0.01

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-80.11	0.0	-665.2	-1.6
$\sigma_{Cls,Med}$	45	-80.11	0.0	-665.2	-1.3
$\sigma_{s,t}$	37	-83.78	0.0	-566.0	-17.9
$\sigma_{s,c}$	40	-84.24	0.0	-568.9	-23.9
Sommita					
$\sigma_{Cls,Max}$	45	-27.86	0.0	2145.5	-1.3
$\sigma_{Cls,Med}$	45	-27.86	0.0	2145.5	-0.7
$\sigma_{s,t}$	41	-28.02	0.0	2193.7	8.5
$\sigma_{s,c}$	37	-31.53	0.0	2097.5	-19.4

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
36 51	36	-50.90	1.00	-50.90	-106.54	14986.1	1734.41	481.49	0.00	0.11

Setto : 35 53 52 34 / Sezione 1

B = 287.94 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	21	-88.73	0.0	4282.1	0.01
Sommità	12	12.76	0.0	-5457.9	0.04

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-65.52	0.0	-327.1	-1.1
$\sigma_{Cls,Med}$	45	-65.52	0.0	-327.1	-1.0
$\sigma_{s,t}$	38	-67.57	0.0	-708.6	-12.6
$\sigma_{s,c}$	38	-67.57	0.0	-708.6	-19.4
Sommita					
$\sigma_{Cls,Max}$	38	-12.86	0.0	-1365.1	-0.8
$\sigma_{Cls,Med}$	38	-12.86	0.0	-1365.1	-0.4
$\sigma_{s,t}$	40	-11.87	0.0	-1293.8	9.5
$\sigma_{s,c}$	38	-12.86	0.0	-1365.1	-11.6

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
35 52	12	27.77	1.00	27.77	-41.95	-5095.9	1816.93	504.40	0.00	0.06

Setto : 36 54 53 35 / Sezione 1

B = 287.94 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	34	-53.17	0.0	-11962.3	0.04
Sommità	34	1.54	0.0	-9316.8	0.05

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-81.47	0.0	-9584.0	-5.7
$\sigma_{Cls,Med}$	45	-81.47	0.0	-9584.0	-2.8
$\sigma_{s,t}$	38	-84.24	0.0	-10337.4	96.3
$\sigma_{s,c}$	38	-84.24	0.0	-10337.4	-89.8
Sommita					
$\sigma_{Cls,Max}$	45	-26.76	0.0	-5396.7	-3.5
$\sigma_{Cls,Med}$	45	-26.76	0.0	-5396.7	-1.7
$\sigma_{s,t}$	38	-29.53	0.0	-5972.7	103.4
$\sigma_{s,c}$	38	-29.53	0.0	-5972.7	-55.3

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
36 53	1	61.00	1.00	61.00	-113.30	-14662.2	1816.92	504.40	0.00	0.12

- En.Ex.Sys. WinStrand

- Verifiche setti in c.a.

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.

- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche lastre/piastre

Modalità di verifica

Gli elementi lastra/piastra possono essere distinti in due categorie in funzione dello stato di sollecitazione:

- elementi soggetti ad uno stato di sollecitazione semplice (flessione o tensionale a membrana);
- elementi soggetti ad uno stato di sollecitazione misto (flessionale e tensionale a membrana).

Le verifiche per stato di sollecitazione semplice sono svolte proiettando le armature lungo le direzioni principali e effettuando la verifica a flessione retta/membrana lungo tali direzioni.

Per gli elementi soggetti ad uno stato di sollecitazione misto, le direzioni principali variano, lungo lo sviluppo z dell'elemento, in modo continuo. Il codice di verifica procede a:

- suddivisione dell'elemento in strati di 1 cm di spessore;
- valutazione, per ogni strato, del corrispondente stato di deformazione e tensione membranale;
- ricostruzione, per sovrapposizione dei vari strati membranali, del comportamento globale dell'elemento soggetto allo stato misto di presso-flessione.

L'Utente può definire delle sezioni trasversali, per le quali le sollecitazioni sono valutate mediando integrazione sulla lunghezza della sezione

Nella determinazione della matrice di rigidezza degli strati di cls, si assume:

- Metodo T.A.: il calcestruzzo in compressione è assunto indefinitamente elastico lineare mentre, in trazione, si può assumere (opzionalmente) che sia in grado di assumere una trazione compresa fra 0 e f_{ct}, essendo f_{ct} la resstenza a trazione del calcestruzzo definita dall'EC2;
- Metodo S.L.U.: il metodo impiegato è quello noto come MCFT acronimo di "Modified Compression Field Method", sviluppato presso l'Università di Toronto da Collins e Del Vecchio a partire dagli anni '80. Il metodo, nella forma implementata, assume per la curva monoassiale tensione-deformazioni del cls quanto previsto dall'EC2;

La verifica a punzonamento può essere condotta considerando o non considerando autoequilibrate le tensioni nel terreno sotto il cono di punzonamento. L'angolo di diffusione è fissato dall'utente.

I copriferri indicati sono da intendersi riferiti al centro delle barre resistenti.

Simbologia utilizzata T.A.:

σ_{amm}
: Tensione ammissibile

$\sigma_{amm,Trazione}$
: Tensione ammissibile di trazione cls

$\sigma_{cls,1}$
: Tensione cls direzione 1

$\sigma_{cls,2}$
: Tensione cls direzione 2

$\sigma_{acciaio,1}$
: Tensione acciaio direzione 1

$\sigma_{acciaio,2}$
: Tensione acciaio direzione 2

$cf_{x,Eq}$
: Copriferro in direzione x

Af_x
: Armatura in direzione x

$cf_{y,Eq}$
: Copriferro in direzione y

Af_y
: Armatura in direzione y

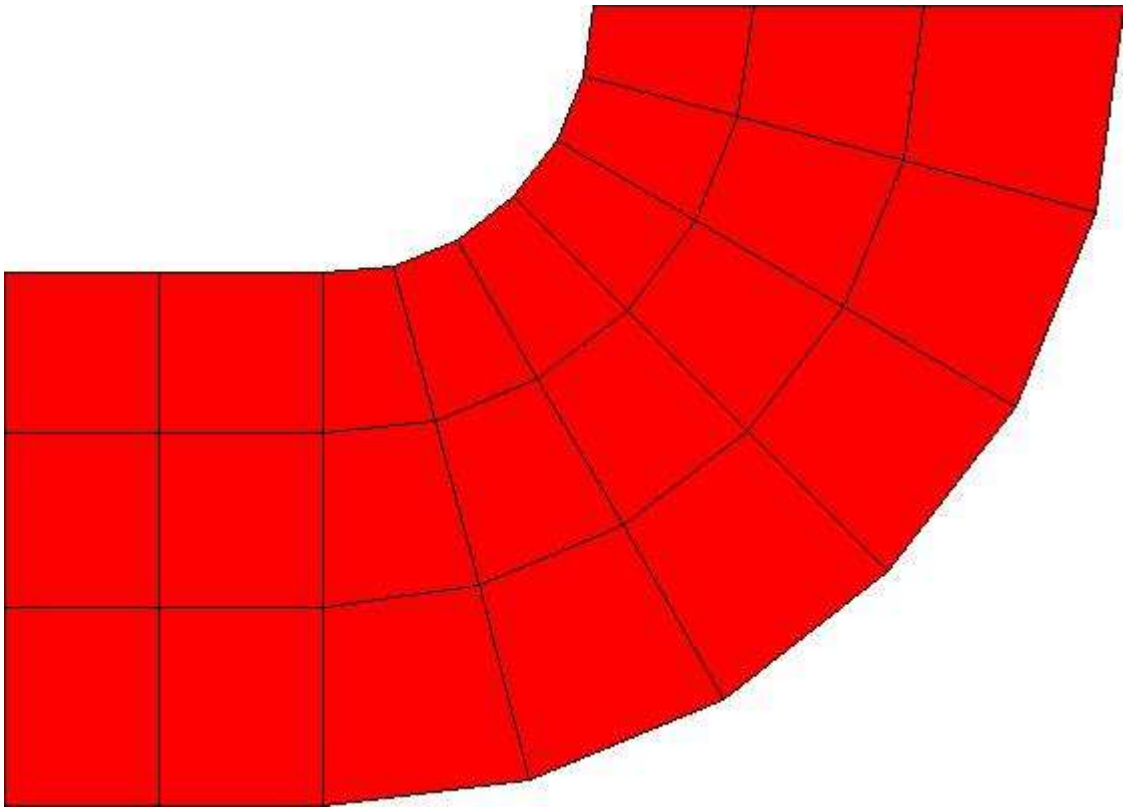
N_x, N_y, N_{xy}, M_{xx}, M_{yy}, M_{xy}
Componenti di sollecitazione esterna
N_{11}, N_{22}, M_{11}, M_{22}, M_{12}
Componenti di sollecitazione principali
α
Angolo direzioni principali
d
Distanza a cui è calcolato il perimetro critico
$\tau_{b,0}$
Tensione ammissibile a taglio elementi privi di armatura a taglio
$\tau_{b,1}$
Tensione ammissibile a taglio elementi con armatura a taglio
N, Mx, My
Sollecitazione esterna verifica a punzonamento
τ
Tensione tangenziale massima

Simbologia utilizzata S.L.:

f_{yd}
Tensione di snervamento di progetto barre armatura
ε_{ud}
Deformazione uniforme ultima
ε_{yd}
Deformazione al limite di snervamento
f_{ck}
Resistenza cilindrica caratteristica
f_{cd}
Tensione di calcolo a compressione di base
ε_{c2}
Deformazione limite elastico
ε_{y}
Deformazione limite ultimo
f_{ctd}
Tensione di calcolo a trazione di progetto
ε_{ctd}
Deformazione al limite di trazione
E_{cm}
Modulo elastico
$cf_{x,Eq}$
Copriferro in direzione x
Af_x
Armatura in direzione x
$cf_{y,Eq}$
Copriferro in direzione y
Af_y
Armatura in direzione y
N_x, N_y, N_{xy}, M_{xx}, M_{yy}, M_{xy}
Componenti di sollecitazione esterna
N_{11}, N_{22}, M_{11}, M_{22}, M_{12}
Componenti di sollecitazione principali
α
Angolo direzioni principali
Cr
Coefficiente rottura S_D/S_R
ε_x
Deformazione acciaio direzione x
ε_y
Deformazione acciaio direzione y
ε_{min}
Deformazione minima cls
ε_{max}
Deformazione massima cls
θ_{max}
Angolo direzioni principali di deformazione
σ_{amm}
Tensione ammissibile S.L.E. di riferimento
σ_x
Tensione nelle barre nello S.L.E. di riferimento in direzione x
σ_y
Tensione nelle barre nello S.L.E. di riferimento in direzione y
$\sigma_{c,Max}$
Tensione massima nel cls nello S.L.E. di riferimento
d
Distanza a cui è calcolato il perimetro critico

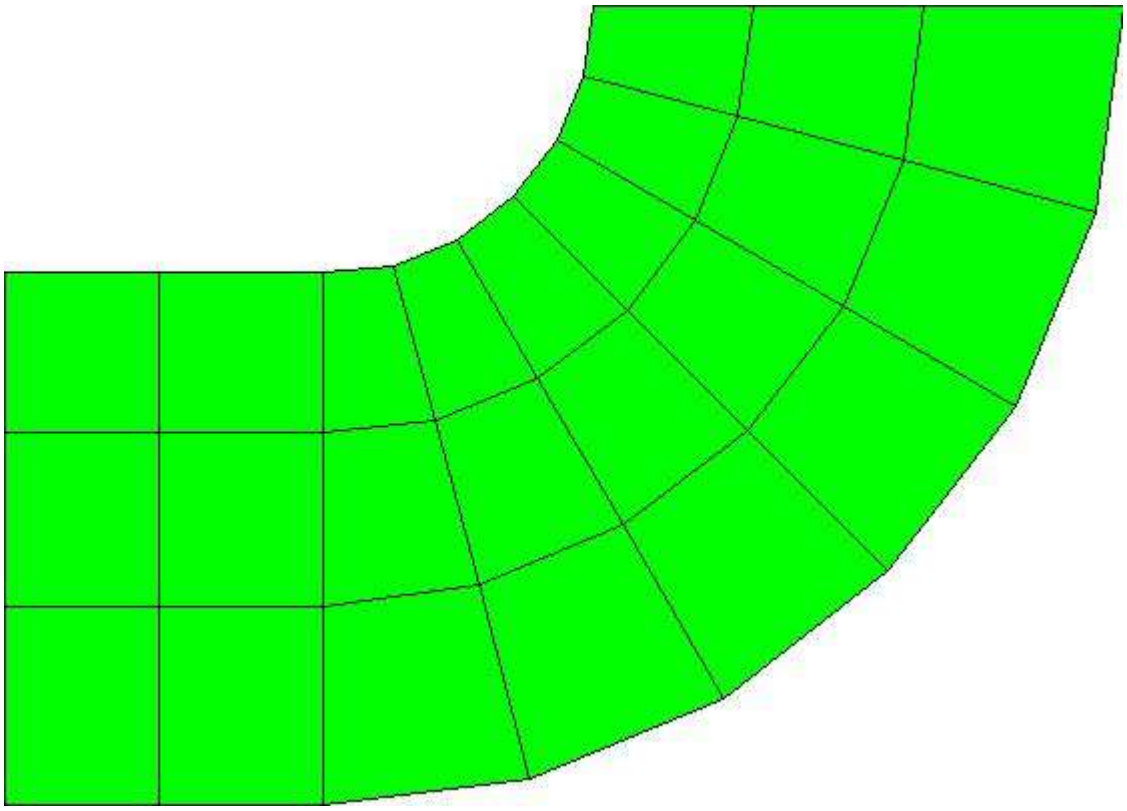
$C_{Rd,c}$
Coefficiente taglio resistente elementi privi di armatura a taglio
V_{Ed}, Mx_{Ed}, My_{Ed}
Sollecitazione esterna verifica a punzonamento
B_x,B_y
Dimensioni perimetro critico
β
Angolo diffusione tensioni
v_{Ed}
Tensione tangenziale sull'area critica
ρ
Rapporto meccanico di armatura
$V_{Rd,c}$
Taglio resistente elementi privi di armatura

Mappa armature di Estradosso



Colore	Armature
	top ø 12/20' X + ø 12/20' Y c=4.00 [cm]

Mappa armature di Intradosso



Colore	Armature
	bottom ø 12/20' X + ø 12/20' Y c=4.00 [cm]

Impostazioni di verifica

Curva σ/ε Calcestruzzo

- secondo Hognestad

Modellazione softening (trazione/compressione)

- $fc_{d,soft}$= fc_d 0.9/sqrt(1+400 et) / Hognestad

Modellazione compressione biassiale

- $fc_{d,biaxial}$= fc_d (1 + 3.8 α) / $(1.0+\alpha)^2$ / α=ec1/ec2 (EC2 Ponti 6.110)

Elementi più sollecitati per tipologia di sezione

Verifiche SLU *Shell* elemento nodi 32 36

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**

- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 12.0 [kg/cm²]**
- **ε_{ctd} 0.08 ‰**
- **E_{cm} 141666.7 [kg/cm²]**

Sezione

- **sezione 3 H=35.00 [cm]**

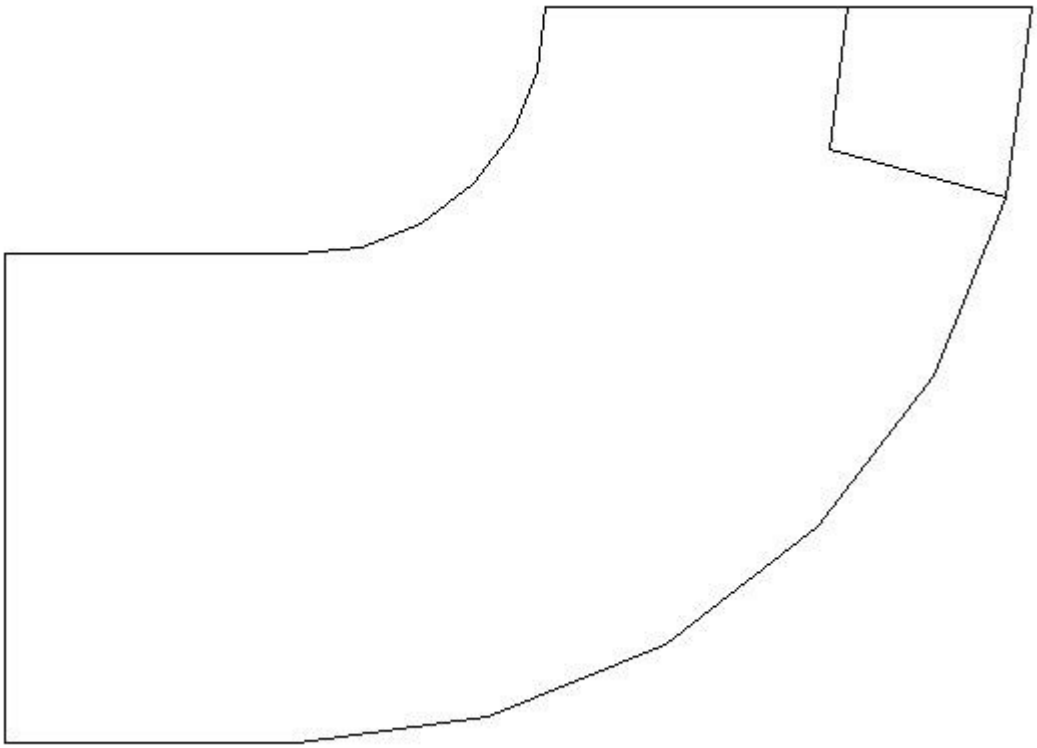
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	4.00	5.65	4.00	5.65	4.00	5.65	4.00

Azioni di verifica combinazione 1 (13.89 9.78 [m])

N_x	2068.3	[kg/m]	N_{11}	2682.5	[kg/m]
N_y	1661.9	[kg/m]	N_{22}	1047.7	[kg/m]
N_{xy}	-791.8	[kg/m]	α	44.70	[°]
M_{xx}	111.36	[kgm/m]	M_{11}	-30.36	[kgm/m]
M_y	126.63	[kgm/m]	M_{22}	-207.63	[kgm/m]
M_{xy}	-88.31	[kgm/m]	α	39.97	[°]

Verifiche

Cr=S/R	**Posizione**	**Acciaio**		**Calcestruzzo**		
		ε_x‰	**ε_y‰**	**ε_{min}‰**	**ε_{max}‰**	**θ [°]**
0.09	Estradosso	47.398	38.551	98.323	-0.061	-42.06
	Intradosso	4.892	3.842	-0.078	-3.500	46.61



Verifiche SLU *Shell* elemento nodi 14 15

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 12.0 [kg/cm²]**
- **ε_{ctd} 0.08 ‰**
- **E_{cm} 141666.7 [kg/cm²]**

Sezione

- **sezione 4 H=35.00 [cm]**

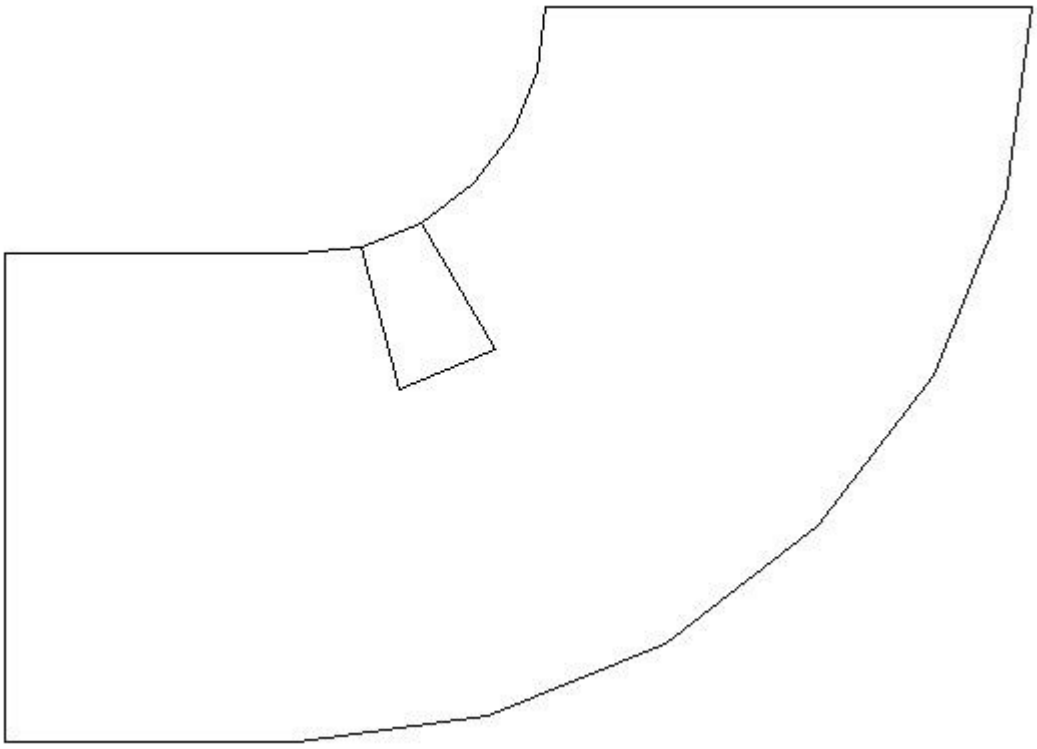
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	4.00	5.65	4.00	5.65	4.00	5.65	4.00

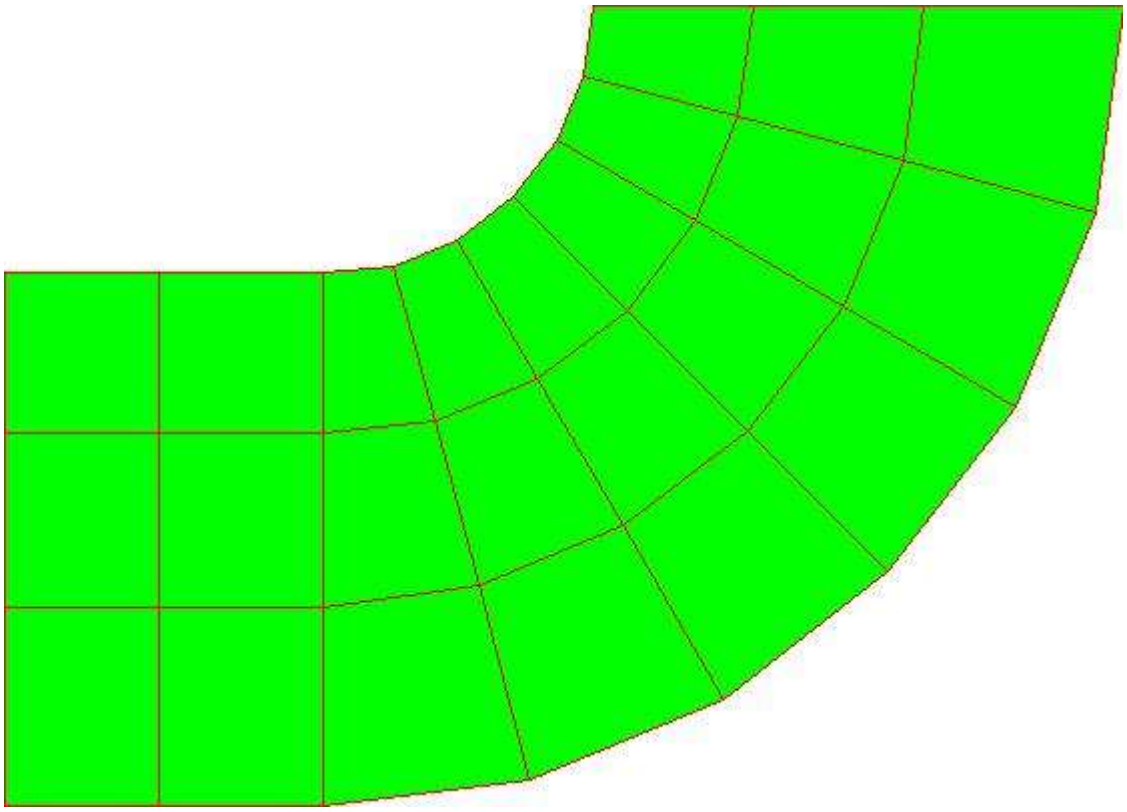
Azioni di verifica combinazione 4 (6.23 6.61 [m])

N_x	-555.5	[kg/m]	N_{11}	-67.2	[kg/m]
N_y	-109.2	[kg/m]	N_{22}	-597.5	[kg/m]
N_{xy}	-143.1	[kg/m]	α	31.34	[°]
M_{xx}	-598.84	[kgm/m]	M_{11}	2133.41	[kgm/m]
M_y	-1601.06	[kgm/m]	M_{22}	66.49	[kgm/m]
M_{xy}	903.84	[kgm/m]	α	-15.50	[°]

Verifiche

Cr=S/R	**Posizione**	**Acciaio**		**Calcestruzzo**		
		ε_x‰	**ε_y‰**	**ε_{min}‰**	**ε_{max}‰**	**θ [°]**
0.32	Estradosso	0.371	0.755	0.011	-3.500	30.21
	Intradosso	8.205	21.866	34.826	-0.140	-58.41





33 % 66 % 99 % 100 % 150 %

Verifiche SLE Rare *Shell* elemento nodi 32 36

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 3600.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 150.0 [kg/cm²]**

Sezione

- **sezione 3 H=35.00 [cm]**

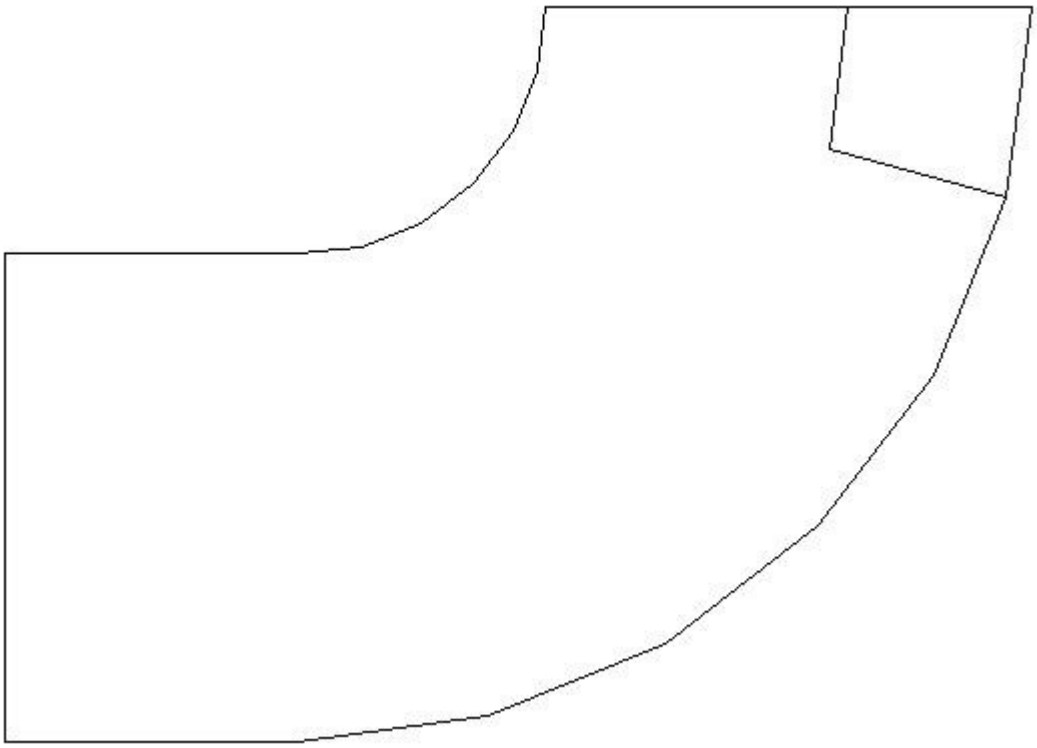
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	4.00	5.65	4.00	5.65	4.00	5.65	4.00

Azioni di verifica combinazione 38 (13.89 9.78 [m])

N_x	1496.1	[kg/m]	N_{11}	765.4	[kg/m]
N_y	1186.8	[kg/m]	N_{22}	1917.5	[kg/m]
N_{xy}	-554.9	[kg/m]	α	-44.72	[°]
M_{xx}	79.78	[kgm/m]	M_{11}	-22.99	[kgm/m]
M_y	89.00	[kgm/m]	M_{22}	-145.80	[kgm/m]
M_{xy}	-61.23	[kgm/m]	α	39.65	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.06	Estradosso	14.3	4.9	0.0	-28.46		
	Intradosso	2.1	0.4	-0.2	42.28		



Verifiche SLE Rare *Shell* elemento nodi 14 15

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 3600.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 150.0 [kg/cm²]**

Sezione

- **sezione 4 H=35.00 [cm]**

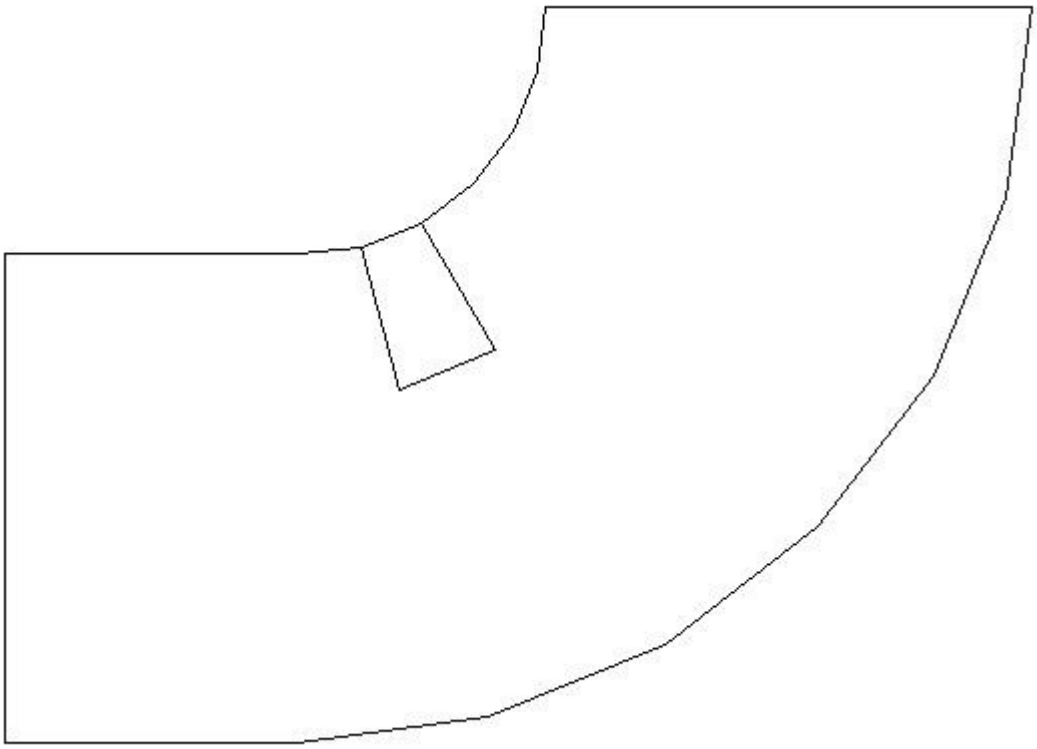
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	4.00	5.65	4.00	5.65	4.00	5.65	4.00

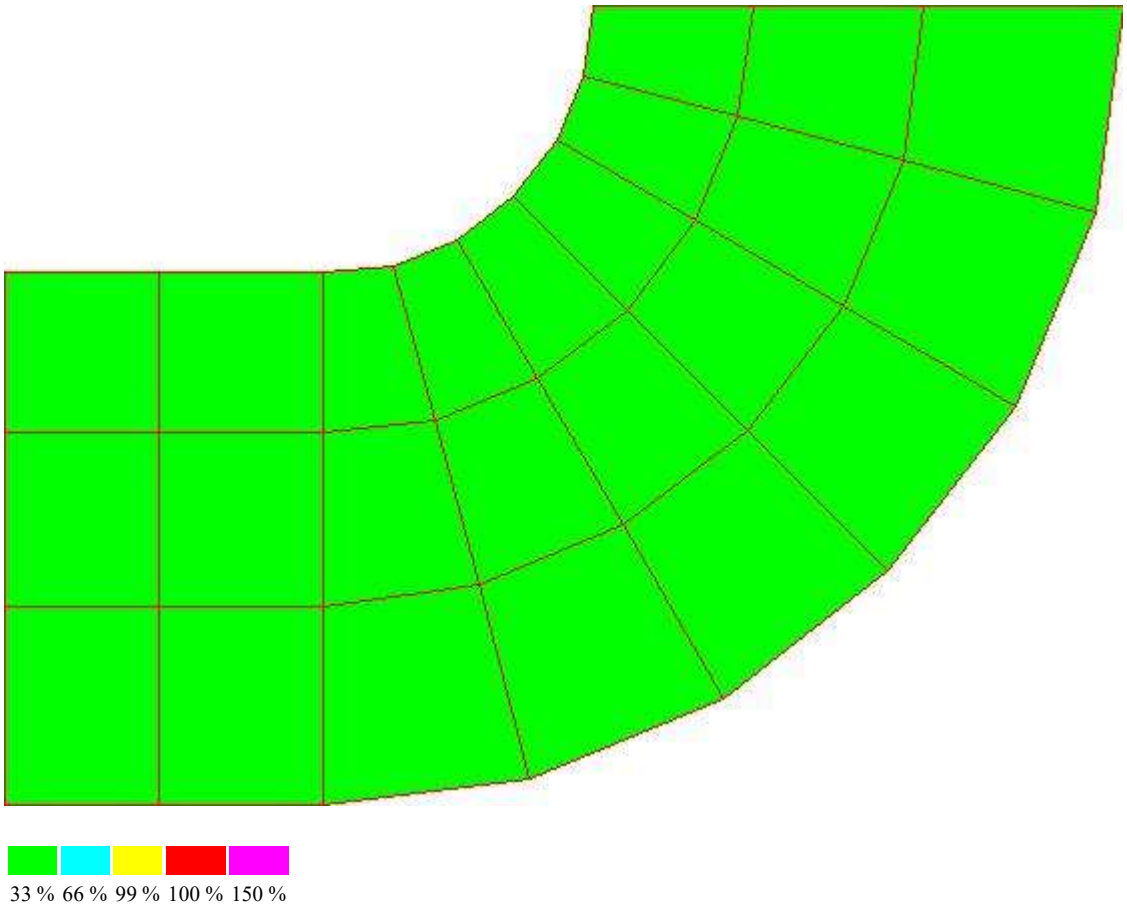
Azioni di verifica combinazione 40 (6.23 6.61 [m])

N_x	-396.8	[kg/m]	N_{11}	-44.4	[kg/m]
N_y	-77.5	[kg/m]	N_{22}	-429.9	[kg/m]
N_{xy}	-108.0	[kg/m]	α	32.04	[°]
M_{xx}	-436.44	[kgm/m]	M_{11}	1545.48	[kgm/m]
M_y	-1160.73	[kgm/m]	M_{22}	51.69	[kgm/m]
M_{xy}	653.23	[kgm/m]	α	-15.50	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.23	Estradosso	-23.3	-58.0	-7.2	31.60		
	Intradosso	20.1	57.4	-0.1	-58.80		





Verifiche SLE Frequenti *Shell* elemento nodi 32 36

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 250.0 [kg/cm²]**

Sezione

- **sezione 3 H=35.00 [cm]**

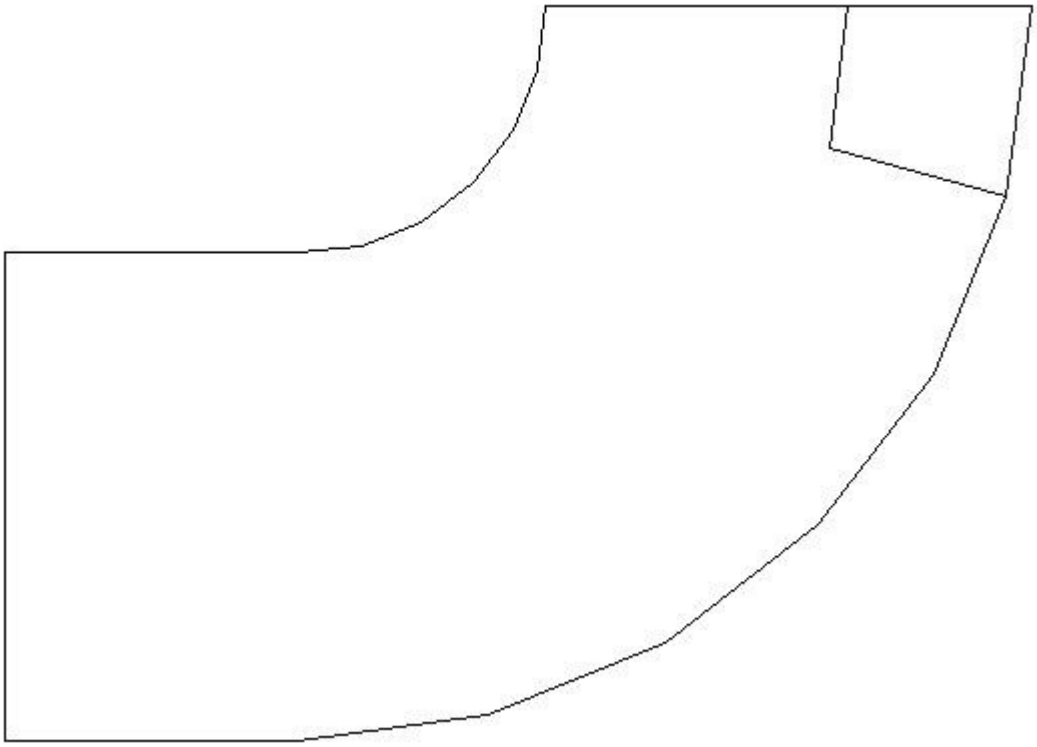
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	4.00	5.65	4.00	5.65	4.00	5.65	4.00

Azioni di verifica combinazione 41 (13.89 9.78 [m])

N_x	1415.8	[kg/m]	N_{11}	733.7	[kg/m]
N_y	1126.6	[kg/m]	N_{22}	1808.8	[kg/m]
N_{xy}	-517.7	[kg/m]	α	-44.70	[°]
M_{xx}	76.29	[kgm/m]	M_{11}	-23.95	[kgm/m]
M_y	86.07	[kgm/m]	M_{22}	-138.41	[kgm/m]
M_{xy}	-57.02	[kgm/m]	α	39.95	[°]

Verifiche

Cr=S/R	**Posizione**	**Acciaio**		**Calcestruzzo**		**Stato**	**Ampiezza Fessure mm**
		σ_x [kg/cm²]	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**		
0.06	Estradosso	13.5	4.8	0.0	-28.61		
	Intradosso	2.0	0.3	-0.2	41.81		



Verifiche SLE Frequenti *Shell* elemento nodi 14 15

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**

- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 250.0 [kg/cm²]**

Sezione

- **sezione 4 H=35.00 [cm]**

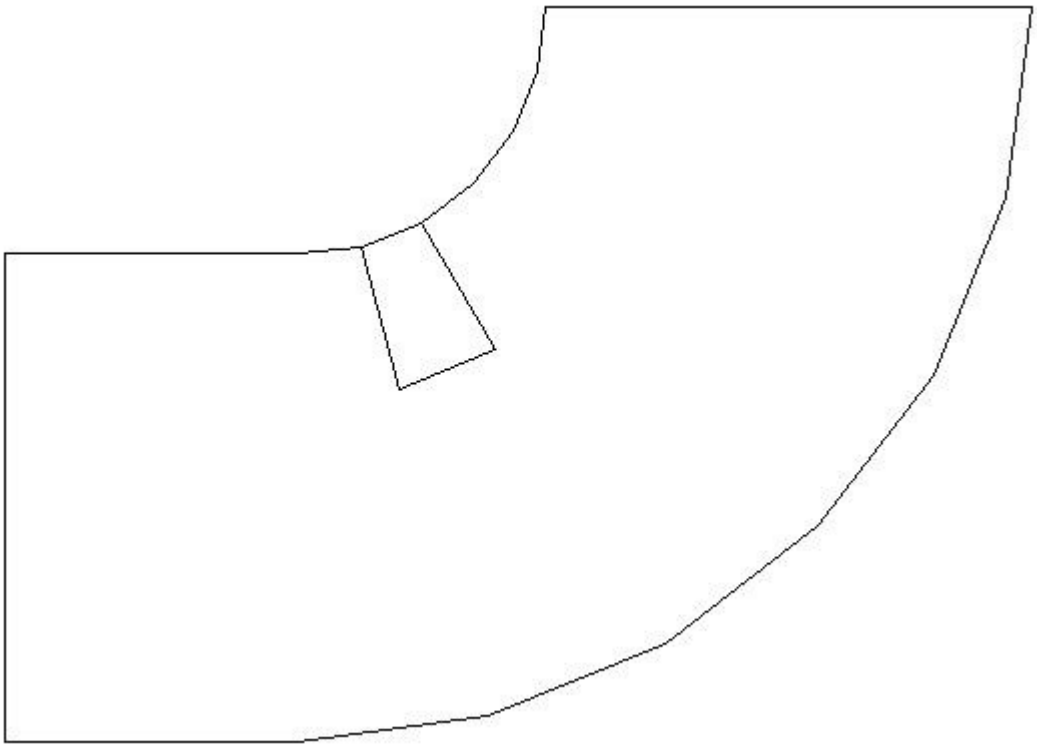
	Estradosso				**Intradosso**		
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	4.00	5.65	4.00	5.65	4.00	5.65	4.00

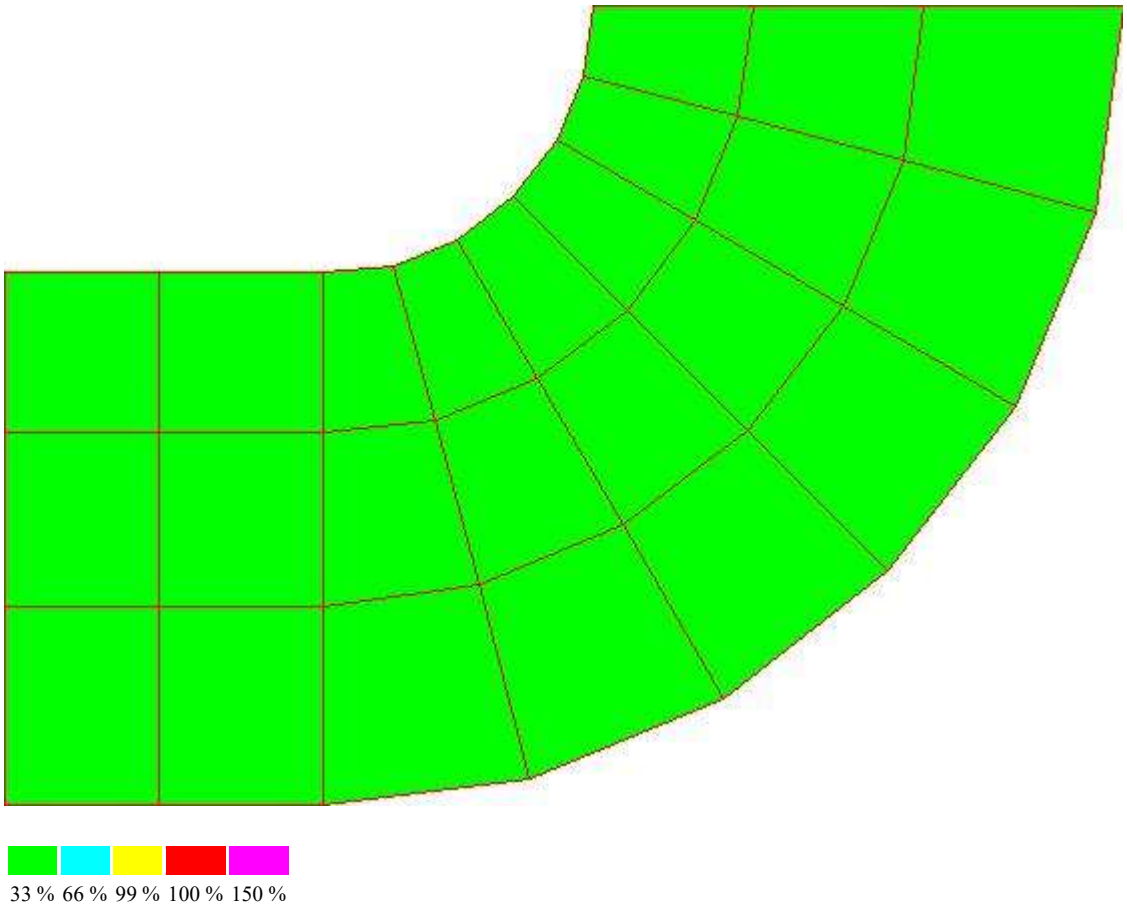
Azioni di verifica combinazione 44 (6.23 6.61 [m])

N_x	-345.7	[kg/m]	N_{11}	-9.5	[kg/m]
N_y	-52.8	[kg/m]	N_{22}	-389.0	[kg/m]
N_{xy}	-120.6	[kg/m]	α	34.74	[°]
M_{xx}	-422.70	[kgm/m]	M_{11}	1432.86	[kgm/m]
M_y	-1076.94	[kgm/m]	M_{22}	66.78	[kgm/m]
M_{xy}	599.61	[kgm/m]	α	-15.69	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.21	Estradosso	-22.4	-53.7	-6.8	31.76		
	Intradosso	19.6	53.3	0.0	-58.60		





Verifiche SLE Quasi Permanenti *Shell* elemento nodi 32 36

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 112.5 [kg/cm²]**
- **w_{Max} 0.30 mm**

Sezione

- **sezione 3 H=35.00 [cm]**

Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**

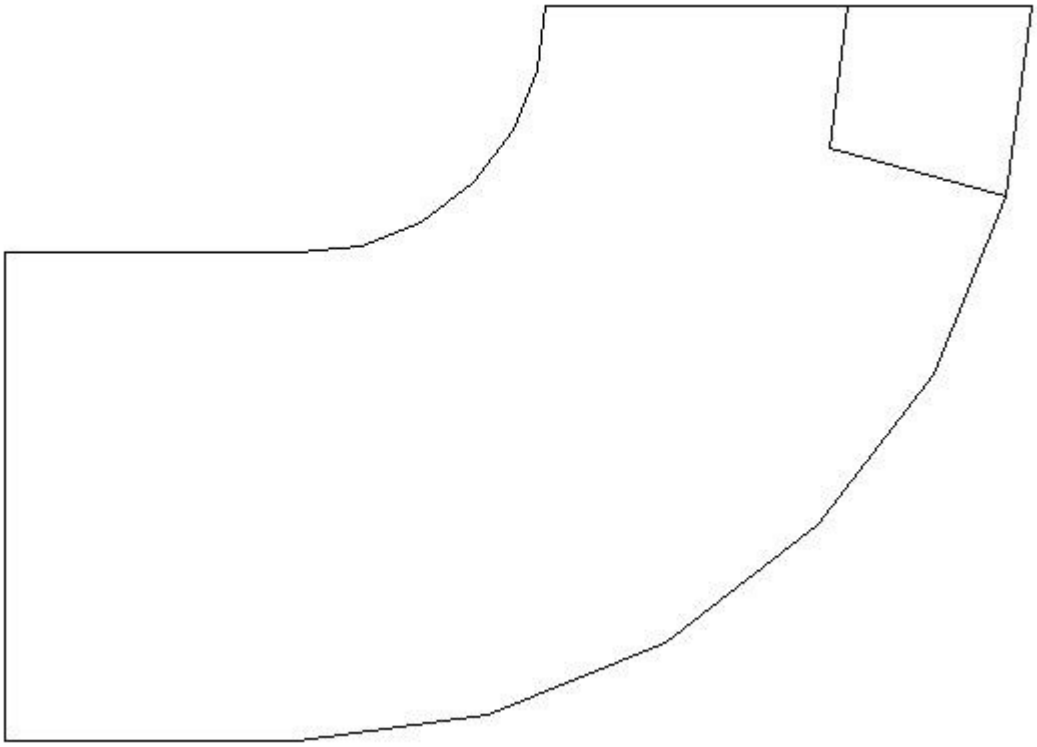
5.65 4.00 5.65 4.00 5.65 4.00 5.65 4.00

Azioni di verifica combinazione 45 (13.89 9.78 [m])

N_x	1409.3	[kg/m]	N_{11}	733.1	[kg/m]
N_y	1114.3	[kg/m]	N_{22}	1790.5	[kg/m]
N_{xy}	-507.7	[kg/m]	α	-44.40	[°]
M_{xx}	76.13	[kgm/m]	M_{11}	-24.51	[kgm/m]
M_y	84.69	[kgm/m]	M_{22}	-136.31	[kgm/m]
M_{xy}	-55.73	[kgm/m]	α	39.70	[°]

Verifiche

Cr=S/R	**Posizione**	**Acciaio** σ_x [kg/cm²]	**Acciaio** σ_y [kg/cm²]	**Calcestruzzo** $\sigma_{c,Max}$ [kg/cm²]	**Calcestruzzo** θ [°]	**Stato**	**Ampiezza Fessure mm**
0.06	Estradosso	13.5	4.7	0.0	-28.23	NON Fessurato	0.000
	Intradosso	2.0	0.3	-0.2	41.77	NON Fessurato	0.000



Verifiche SLE Quasi Permanenti *Shell* elemento nodi 14 15

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 112.5 [kg/cm²]**
- **w_{Max} 0.30 mm**

Sezione

- **sezione 4 H=35.00 [cm]**

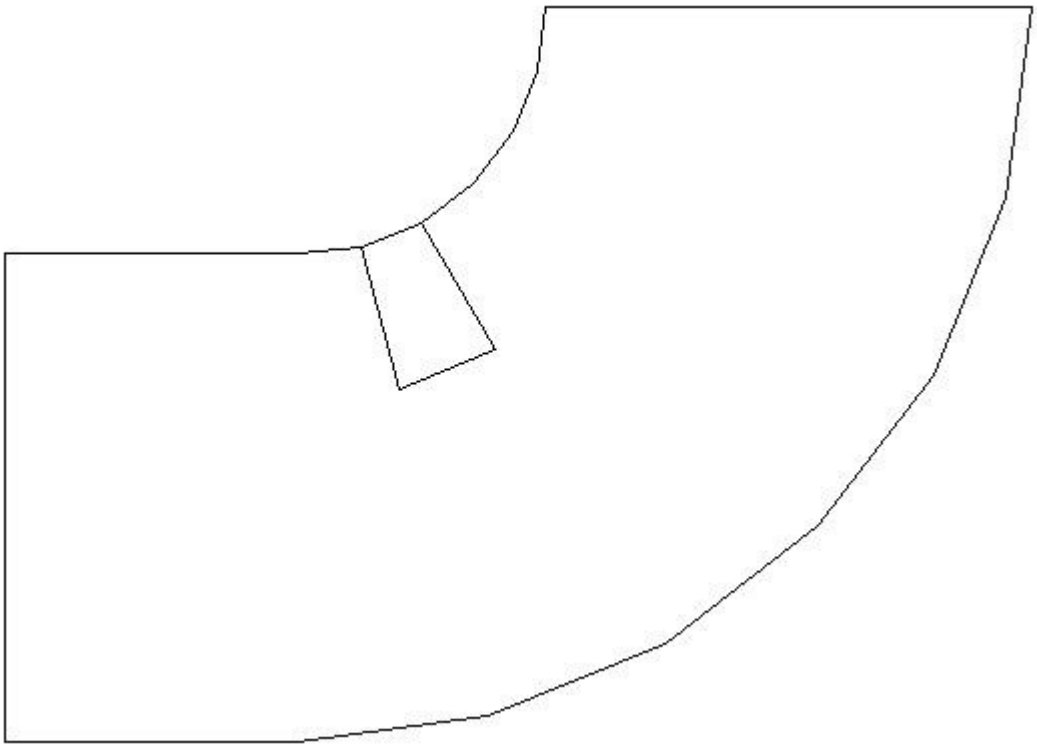
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	4.00	5.65	4.00	5.65	4.00	5.65	4.00

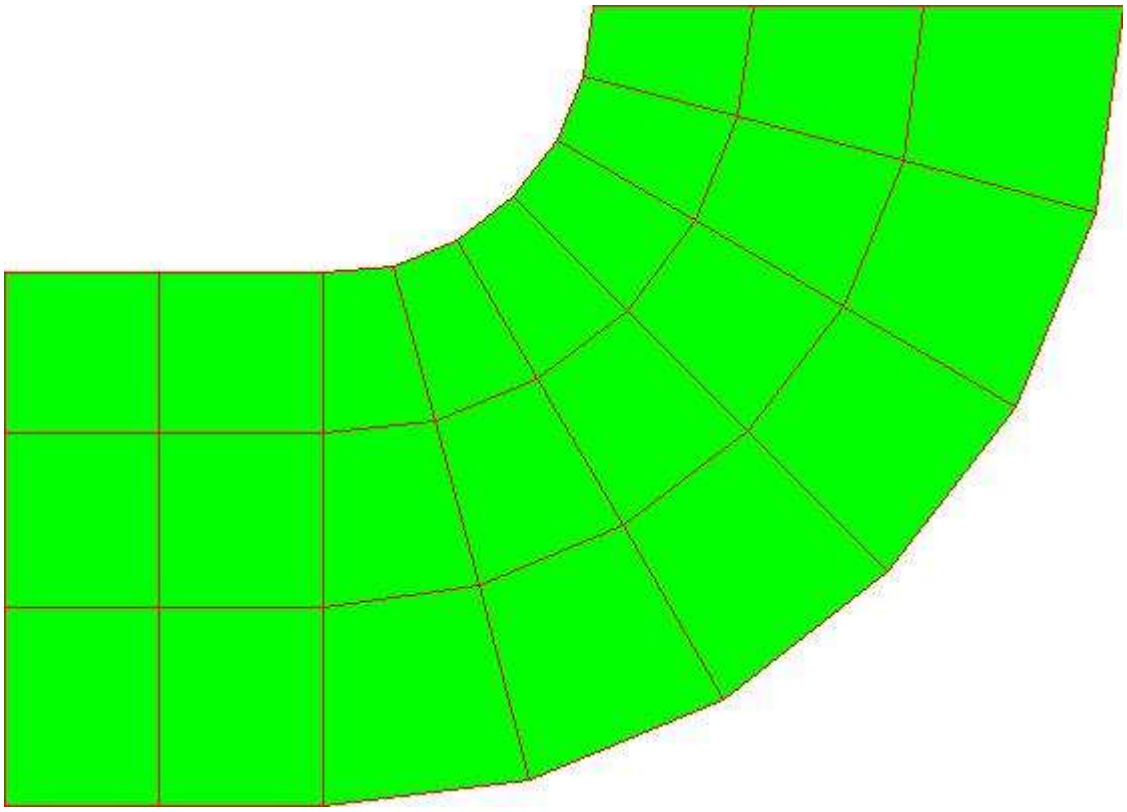
Azioni di verifica combinazione 45 (6.23 6.61 [m])

N_x	-339.7	[kg/m]	N_{11}	-3.9	[kg/m]
N_y	-49.5	[kg/m]	N_{22}	-385.3	[kg/m]
N_{xy}	-123.7	[kg/m]	α	35.23	[°]
M_{xx}	-422.04	[kgm/m]	M_{11}	1397.59	[kgm/m]
M_y	-1050.53	[kgm/m]	M_{22}	74.98	[kgm/m]
M_{xy}	581.87	[kgm/m]	α	-15.81	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.21	Estradosso	-22.3	-52.4	-6.7	31.85	NON Fessurato	0.000
	Intradosso	19.5	52.1	0.0	-58.57	NON Fessurato	0.000





33 % 66 % 99 % 100 % 150 %

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
    -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):

-
  - Via statica equivalente.
  - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.
- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche lastre/piastre

Modalità di verifica

Gli elementi lastra/piastra possono essere distinti in due categorie in funzione dello stato di sollecitazione:

- elementi soggetti ad uno stato di sollecitazione semplice (flessione o tensionale a membrana);
- elementi soggetti ad uno stato di sollecitazione misto (flessionale e tensionale a membrana).

Le verifiche per stato di sollecitazione semplice sono svolte proiettando le armature lungo le direzioni principali e effettuando la verifica a flessione retta/membrana lungo tali direzioni.

Per gli elementi soggetti ad uno stato di sollecitazione misto, le direzioni principali variano, lungo lo sviluppo z dell'elemento, in modo continuo. Il codice di verifica procede a:

- suddivisione dell'elemento in strati di 1 cm di spessore;
- valutazione, per ogni strato, del corrispondente stato di deformazione e tensione membranale;
- ricostruzione, per sovrapposizione dei vari strati membranali, del comportamento globale dell'elemento soggetto allo stato misto di presso-flessione.

L'Utente può definire delle sezioni trasversali, per le quali le sollecitazioni sono valutate mediando integrazione sulla lunghezza della sezione

Nella determinazione della matrice di rigidezza degli strati di cls, si assume:

- Metodo T.A.: il calcestruzzo in compressione è assunto indefinitamente elastico lineare mentre, in trazione, si può assumere (opzionalmente) che sia in grado di assumere una trazione compresa fra 0 e f_{ct}, essendo f_{ct} la resstenza a trazione del calcestruzzo definita dall'EC2;
- Metodo S.L.U.: il metodo impiegato è quello noto come MCFT acronimo di "Modified Compression Field Method", sviluppato presso l'Università di Toronto da Collins e Del Vecchio a partire dagli anni '80. Il metodo, nella forma implementata, assume per la curva monoassiale tensione-deformazioni del cls quanto previsto dall'EC2;

La verifica a punzonamento può essere condotta considerando o non considerando autoequilibrate le tensioni nel terreno sotto il cono di punzonamento. L'angolo di diffusione è fissato dall'utente.

I copriferri indicati sono da intendersi riferiti al centro delle barre resistenti.

Simbologia utilizzata T.A.:

σ_{amm}
Tensione ammissibile
$\sigma_{amm,Trazione}$
Tensione ammissibile di trazione cls
$\sigma_{cls,1}$
Tensione cls direzione 1
$\sigma_{cls,2}$
Tensione cls direzione 2
$\sigma_{acciaio,1}$
Tensione acciaio direzione 1
$\sigma_{acciaio,2}$
Tensione acciaio direzione 2
$cf_{x,Eq}$
Copriferro in direzione x
Af_x
Armatura in direzione x
$cf_{y,Eq}$
Copriferro in direzione y
Af_y
Armatura in direzione y
N_x, N_y, N_{xy}, M_{xx}, M_{yy}, M_{xy}
Componenti di sollecitazione esterna
N_{11}, N_{22}, M_{11}, M_{22}, M_{12}
Componenti di sollecitazione principali
α
Angolo direzioni principali
d
Distanza a cui è calcolato il perimetro critico
$\tau_{b,0}$
Tensione ammissibile a taglio elementi privi di armatura a taglio
$\tau_{b,1}$
Tensione ammissibile a taglio elementi con armatura a taglio

N, Mx, My
Sollecitazione esterna verifica a punzonamento
τ
Tensione tangenziale massima

Simbologia utilizzata S.L.:

$\mathbf{f_{yd}}$
Tensione di snervamento di progetto barre armatura
$\boldsymbol{\varepsilon_{ud}}$
Deformazione uniforme ultima
$\boldsymbol{\varepsilon_{yd}}$
Deformazione al limite di snervamento
$\mathbf{f_{ck}}$
Resistenza cilindrica caratteristica
$\mathbf{f_{cd}}$
Tensione di calcolo a compressione di base
$\boldsymbol{\varepsilon_{c2}}$
Deformazione limite elastico
$\boldsymbol{\varepsilon_{y}}$
Deformazione limite ultimo
$\mathbf{f_{ctd}}$
Tensione di calcolo a trazione di progetto
$\boldsymbol{\varepsilon_{ctd}}$
Deformazione al limite di trazione
$\mathbf{E_{cm}}$
Modulo elastico
$\mathbf{cf_{x,Eq}}$
Copriferro in direzione x
$\mathbf{Af_{x}}$
Armatura in direzione x
$\mathbf{cf_{y,Eq}}$
Copriferro in direzione y
$\mathbf{Af_{y}}$
Armatura in direzione y
$\mathbf{N_x, N_y, N_{xy}, M_{xx}, M_{yy}, M_{xy}}$
Componenti di sollecitazione esterna
$\mathbf{N_{11}, N_{22}, M_{11}, M_{22}, M_{12}}$
Componenti di sollecitazione principali
α
Angolo direzioni principali
Cr
Coefficiente rottura S_D/S_R
$\boldsymbol{\varepsilon_{x}}$
Deformazione acciaio direzione x
$\boldsymbol{\varepsilon_{y}}$
Deformazione acciaio direzione y
$\boldsymbol{\varepsilon_{min}}$
Deformazione minima cls
$\boldsymbol{\varepsilon_{max}}$

Deformazione massima cls

θ_{max}

Angolo direzioni principali di deformazione

σ_{amm}

Tensione ammissibile S.L.E. di riferimento

σ_x

Tensione nelle barre nello S.L.E. di riferimento in direzione x

σ_y

Tensione nelle barre nello S.L.E. di riferimento in direzione y

$\sigma_{c,Max}$

Tensione massima nel cls nello S.L.E. di riferimento

d

Distanza a cui è calcolato il perimetro critico

$C_{Rd,c}$

Coefficiente taglio resistente elementi privi di armatura a taglio

V_{Ed}, Mx_{Ed}, My_{Ed}

Sollecitazione esterna verifica a punzonamento

B_x,B_y

Dimensioni perimetro critico

β

Angolo diffusione tensioni

v_{Ed}

Tensione tangenziale sull'area critica

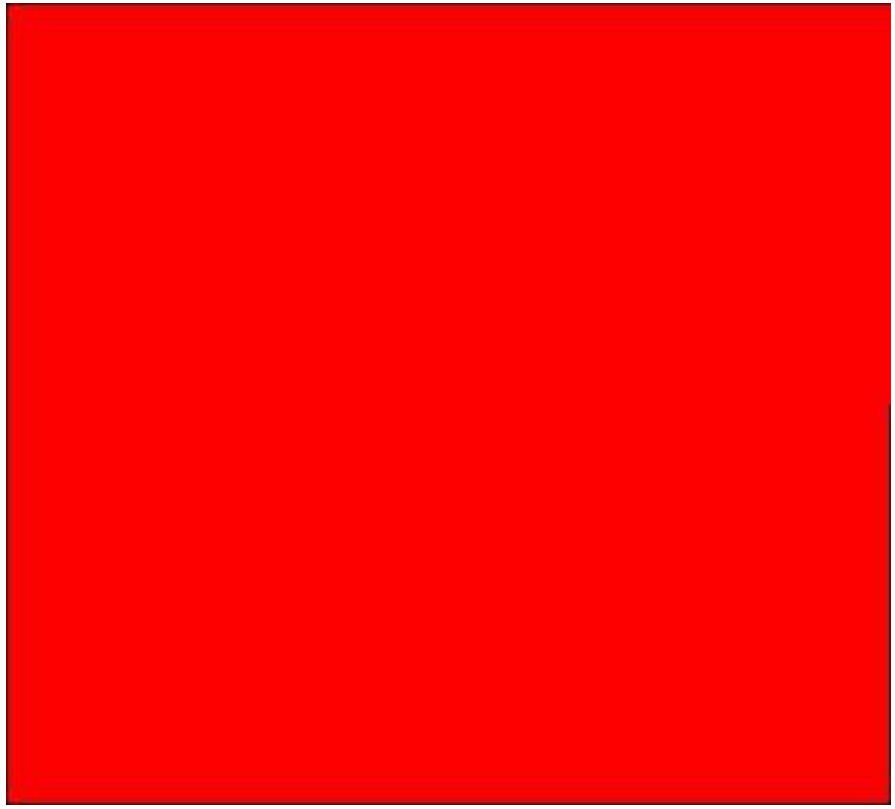
ρ

Rapporto meccanico di armatura

$V_{Rd,c}$

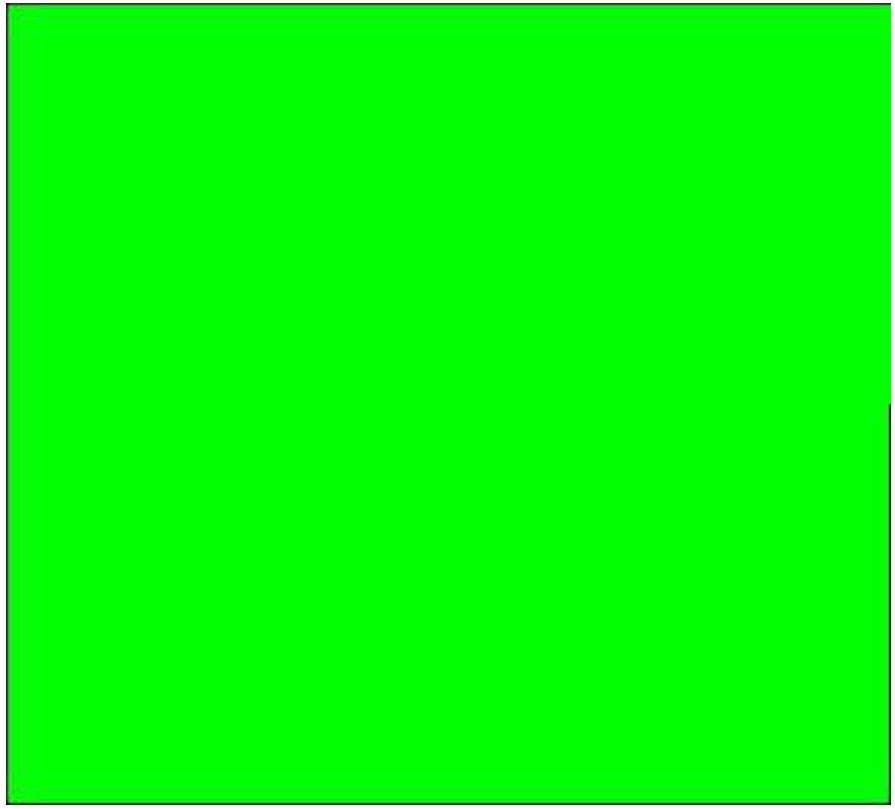
Taglio resistente elementi privi di armatura

Mappa armature di Estradosso



Colore	Armature
	top ø 12/20' X + ø 12/20' Y c=3.00 [cm]

Mappa armature di Intradosso



Colore	Armature
	bottom ø 12/20' X + ø 12/20' Y c=3.00 [cm]

Impostazioni di verifica

Curva σ/ε Calcestruzzo

- secondo Hognestad

Modellazione softening (trazione/compressione)

- $fc_{d,soft}$= fc_d 0.9/sqrt(1+400 et) / Hognestad

Modellazione compressione biassiale

- $fc_{d,biaxial} = fc_d (1 + 3.8 \alpha) / (1.0+\alpha)^2 / \alpha = ec1/ec2$ (EC2 Ponti 6.110)

Elementi più sollecitati per tipologia di sezione

Verifiche SLU *Shell* elemento nodi 103 101

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 12.0 [kg/cm²]**
- **ε_{ctd} 0.08 ‰**
- **E_{cm} 141666.7 [kg/cm²]**

Sezione

- **sezione 2 H=20.00 [cm]**

Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	3.00	5.65	3.00	5.65	3.00	5.65	3.00

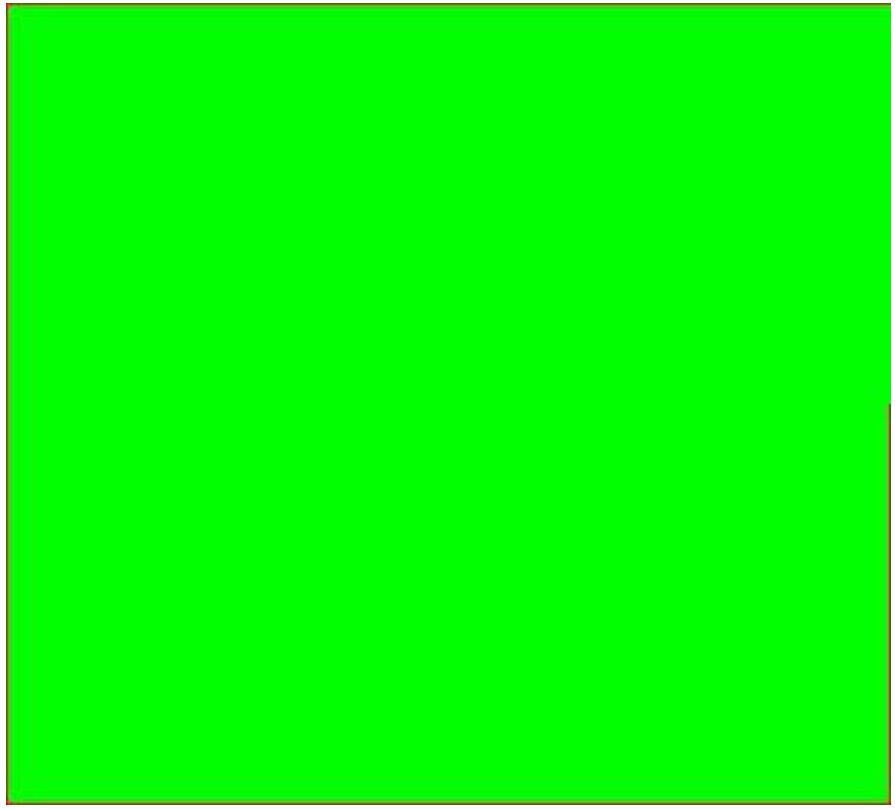
Azioni di verifica combinazione 1 (1.19 1.08 [m])

N_x	-5328.9	[kg/m]	N_{11}	-7925.0	[kg/m]
N_y	-4216.8	[kg/m]	N_{22}	-1620.7	[kg/m]
N_{xy}	-3102.7	[kg/m]	α	39.92	[°]

M_{xx}	143.25	[kgm/m]	M_{11}	171.85	[kgm/m]
M_y	7.99	[kgm/m]	M_{22}	-20.61	[kgm/m]
M_{xy}	-68.46	[kgm/m]	α	-22.67	[°]

Verifiche

Cr=S/R	**Posizione**	**Acciaio**		**Calcestruzzo**		
		ε_x‰	**ε_y‰**	**ε_{min}‰**	**ε_{max}‰**	**θ [°]**
0.06	Estradosso	0.212	-0.167	3.715	-3.500	-42.85
	Intradosso	-0.474	-0.187	0.153	-0.984	56.59



33 % 66 % 99 % 100 % 150 %

Verifiche SLE Rare *Shell* elemento nodi 103 101

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 3600.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 150.0 [kg/cm²]**

Sezione

- **sezione 2 H=20.00 [cm]**

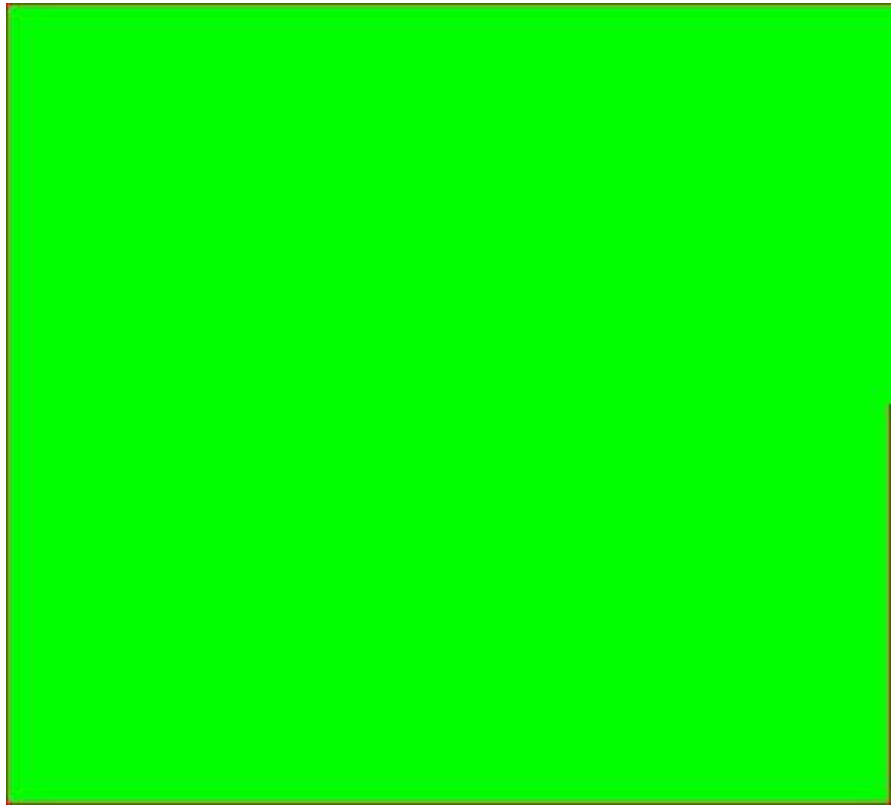
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	3.00	5.65	3.00	5.65	3.00	5.65	3.00

Azioni di verifica combinazione 40 (1.19 1.08 [m])

N_x	-3879.2	[kg/m]	N_{11}	-5687.7	[kg/m]
N_y	-3046.5	[kg/m]	N_{22}	-1237.9	[kg/m]
N_{xy}	-2185.6	[kg/m]	α	39.61	[°]
M_{xx}	99.15	[kgm/m]	M_{11}	120.23	[kgm/m]
M_y	4.47	[kgm/m]	M_{22}	-16.61	[kgm/m]
M_{xy}	-49.40	[kgm/m]	α	-23.11	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.04	Estradosso	-13.8	-20.3	-2.8	-38.42		
	Intradosso	-39.3	-21.4	-4.0	-77.23		



33 % 66 % 99 % 100 % 150 %

Verifiche SLE Frequenti *Shell* elemento nodi 103 101

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 250.0 [kg/cm²]**

Sezione

- **sezione 2 H=20.00 [cm]**

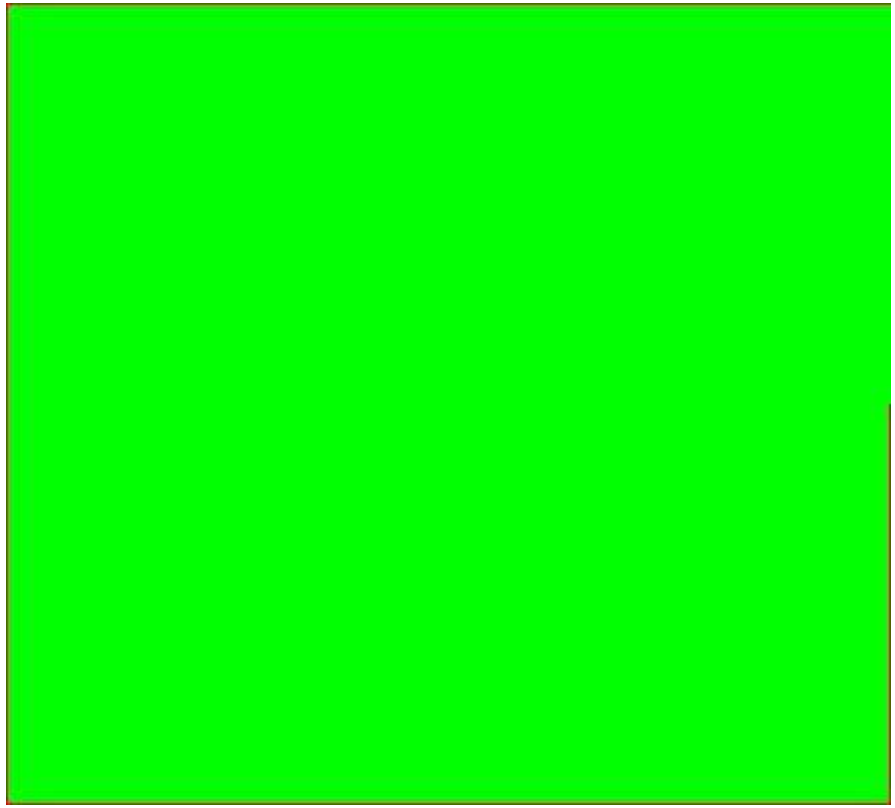
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	3.00	5.65	3.00	5.65	3.00	5.65	3.00

Azioni di verifica combinazione 41 (1.19 1.08 [m])

N_x	-3624.7	[kg/m]	N_{11}	-5390.2	[kg/m]
N_y	-2873.8	[kg/m]	N_{22}	-1108.3	[kg/m]
N_{xy}	-2107.8	[kg/m]	α	39.95	[°]
M_{xx}	87.97	[kgm/m]	M_{11}	108.79	[kgm/m]
M_y	4.01	[kgm/m]	M_{22}	-16.81	[kgm/m]
M_{xy}	-46.71	[kgm/m]	α	-24.03	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.04	Estradosso	-13.5	-19.2	-2.7	-38.94		
	Intradosso	-36.2	-20.2	-3.7	-75.90		



33 % 66 % 99 % 100 % 150 %

Verifiche SLE Quasi Permanenti *Shell* elemento nodi 103 101

Propietà dei materiali

Acciaio B 450 C

- **f_{yd} 3913.0 [kg/cm²]**
- **ε_{ud} 67.00 ‰**
- **ε_{yd} 1.86 ‰**
- **σ 4500.0 [kg/cm²]**

Calcestruzzo C25/30

- **f_{cd} 141.7 [kg/cm²]**
- **ε_{c2} -2.00 ‰**
- **ε_{cu} -3.50 ‰**
- **f_{ctd} 25.6 [kg/cm²]**
- **ε_{ctd} 0.18 ‰**
- **E_{cm} 141666.7 [kg/cm²]**
- **σ 112.5 [kg/cm²]**
- **w_{Max} 0.30 mm**

Sezione

- **sezione 2 H=20.00 [cm]**

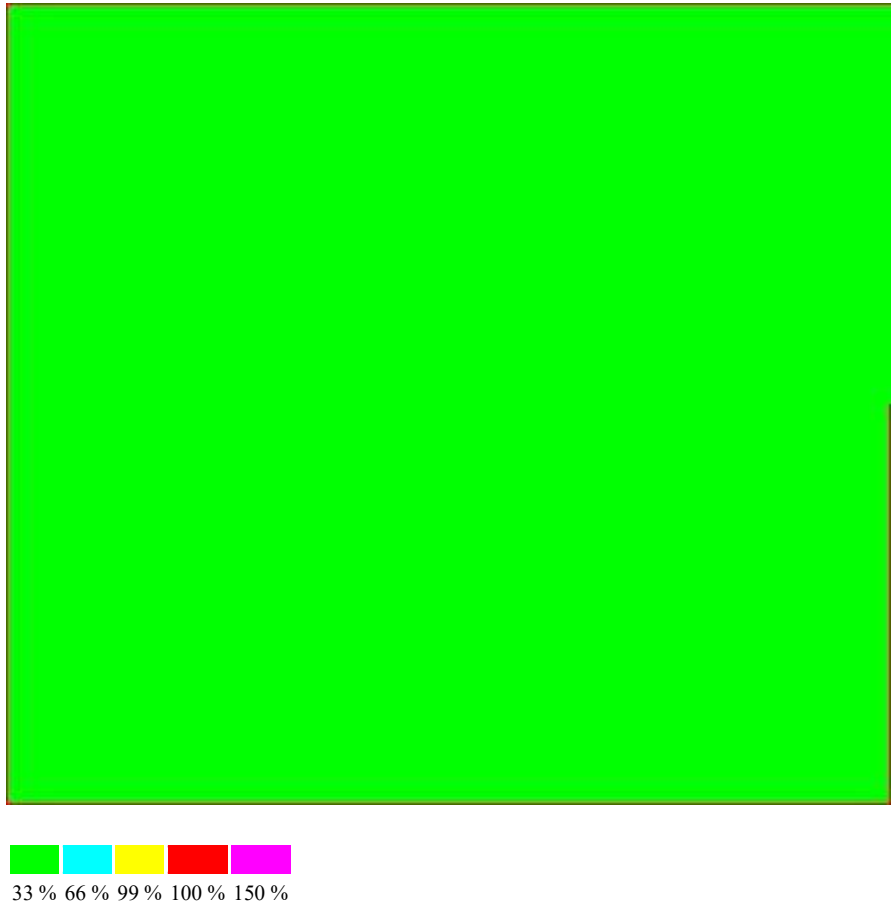
Estradosso				**Intradosso**			
Af_x [cm²] / m	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**	**Af_x [cm²] / m**	**$cf_{x,Eq}$ [cm]**	**Af_y [cm²] / m**	**$cf_{y,Eq}$ [cm]**
5.65	3.00	5.65	3.00	5.65	3.00	5.65	3.00

Azioni di verifica combinazione 45 (1.19 1.08 [m])

N_x	-3608.0	[kg/m]	N_{11}	-5348.0	[kg/m]
N_y	-2854.0	[kg/m]	N_{22}	-1114.0	[kg/m]
N_{xy}	-2083.1	[kg/m]	α	39.87	[°]
M_{xx}	87.81	[kgm/m]	M_{11}	108.37	[kgm/m]
M_y	3.95	[kgm/m]	M_{22}	-16.60	[kgm/m]
M_{xy}	-46.33	[kgm/m]	α	-23.93	[°]

Verifiche

		Acciaio		**Calcestruzzo**			
Cr=S/R	**Posizione**	**σ_x [kg/cm²]**	**σ_y [kg/cm²]**	**$\sigma_{c,Max}$ [kg/cm²]**	**θ [°]**	**Stato**	**Ampiezza Fessure mm**
0.03	Estradosso	-13.4	-19.1	-2.6	-38.90	NON Fessurato	0.000
	Intradosso	-36.0	-20.0	-3.7	-76.11	NON Fessurato	0.000



Verifiche a PUNZONAMENTO Stati Limite

Dati di verifica

- **Distanza a cui è calcolato il perimetro critico d=H * 1.00**
- **Le tensioni nel terreno vanno ad equilibrare V_{Ed}**

Materiali

Calcestruzzo

- **f_{ck} 250.0 [kg/cm²]**
- **f_{cd} 141.7 [kg/cm²]**
- **$V_{Rd,max}$ 38.3 [kg/cm²]**
- **$C_{Rd,c}$ 0.12**

Acciaio

- **f_y 3913.0 [kg/cm²]**

Elemento	Perimetro Critico [cm]	H [cm]	Tipo	A_{soil} [m²]	Comb. Crit.	σ_{soil} [kg/cm²]	N_{Ed} [kN]	N_{soil} [kN]	V_{Ed} [kN]	Mx_{Ed} [kgm]	My_{Ed} [kgm]	B_x [cm]	B_y [cm]	Estradosso Af [cm²]/m	Estradosso cf [cm]	Intradosso Af [cm²]/m	Intradosso cf [cm]	d [cm]	W1 [cm²]	k (fr. 6.39)	β	k (fr. 6.47)	ρ	v_{Ed} [kg/cm²]	$V_{Rd,c}$ [kg/cm²]	U_o[cm]	$v_{Ed,max}$ [kg/cm²]
Pilastro Nodo 103 Sezione 1	60.97	20.00	Spigolo	0.0	2	0.0	25.16	0.00	25.16	1034.6	-387.2	24.20	35.00	5.65	3.00	5.65	3.00	17.00	195037.93	0.636	1.87	2.000	0.0033	4.5	4.9	51.00	5.4
Pilastro Nodo 107 Sezione 1	60.95	20.00	Spigolo	0.0	2	0.0	2.76	0.00	2.76	1100.0	-373.4	24.20	35.00	5.65	3.00	5.65	3.00	17.00	112898.22	0.637	15.47	2.000	0.0033	4.1	4.9	51.00	4.9

- **En.Ex.Sys. WinStrand**
- **Verifiche lastre/piastre**

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizzazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.

- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche travi

Modalità di verifica

Le travi vengono progettate-verificate a flessione retta e taglio nel piano longitudinale della trave sulla base dell'inviluppo delle sollecitazioni.

Viene comunque sempre predisposta l'armatura minima mentre gli sforzi di taglio vengono integralmente assorbiti dalle staffe.

Le operazioni di progetto-verifica vengono condotte, per ogni asta, in tre diverse sezioni e precisamente in corrispondenza dei fili esterni dei pilastri e della sezione in campata nella quale viene riscontrato il massimo momento positivo (negativo).

I momenti si intendono postivi se tendono le fibre di intradosso (inferiori).

Per quanto concerne il progetto e la verifica delle travi a taglio esse vengono condotte nel modo seguente:

- Si controlla se la trave necessita o meno di armatura aggiuntiva a taglio:
    1. Se non occorre armatura aggiuntiva a taglio si procede a disporre la staffatura minima di regolamento e la progettazione ha termine.
    2. Se occorre armatura aggiuntiva a taglio la staffatuta viene progettata andando a suddividere la trave, a seconda del caso, in uno, tre o cinque conci:
        - due tronchi in prossimità degli appoggi di lunghezza pari all'altezza della sezione;
        - due altri (eventuali) tronchi dall'ascissa precedente a quella in cui il taglio può essere assorbito con la sola staffatura minima da regolamento
        - un restante (eventuale) concio di chiusura centrale.
- In ogni caso l'armatura a taglio si intende simmetrica rispetto alla mezzeria della trave e viene progettata considerando, rispetto alla mezzeria, la zona della trave più sollecitata.

Per quanto concerne le verifiche a taglio esse vengono condotte suddividendo la trave in cinque conci:

due tronchi in prossimità degli appoggi di lunghezza pari all'altezza della sezione; due altri (eventuali) tronchi dall'ascissa precedente a quella in cui il taglio può essere assorbito con la sola staffatura minima da regolamento; il restante (eventuale) concio di chiusura centrale.

L'armatura a taglio si intende simmetrica rispetto alla mezzeria della trave e viene progettata considerando, rispetto alla mezzeria, la zona della trave più sollecitata.

Simbologia utilizzata:

Af Es.
: Area di ferro all'estradosso

Af In.
: Area di ferro all'intradosso

Sigb.Es.
: Tensione del calcestruzzo estradosso

Sigb. In.
: Tensione del calcestruzzo intradosso

Sigf. Es.
: Tensione dell'acciaio estradosso

Sigf. In.
: Tensione dell'acciaio intradosso

Sezioni Impiegate: Trave

Sezioni Nuove

Sez. Num.	Info	Dimensioni	Criterio	Calcestruzzo	γ_M	F.C.	f_{ck} [kg/cm²]	f_{cd} [kg/cm²]	σ_{RARE} [kg/cm²]	σ_{FREQ} [kg/cm²]	σ_{QP} [kg/cm²]	Acciaio	γ_M	F.C.	f_{yk} [kg/cm²]	f_{yd} [kg/cm²]	σ_{yRARE} [kg/cm²]	σ_{yFRE} [kg/cr

1	Rett. 25X21	B 25 [cm] H 21 [cm]	Vertrav	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0
2	Rett. 25X40	B 25 [cm] H 40 [cm]	Vertrav	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0
4	Rett. 60X50	B 60 [cm] H 50 [cm]	Vertrav	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0

Verifica a fessurazione indiretta

Fattore di sovraresistenza Travi $\gamma_{R,d\ (Nuovo)}$=0.00 $\gamma_{R,d\ (Esistente)}$=0.00
Fattore di sovraresistenza delle azioni sulle Fondazioni $\gamma_{R,d\ (Nuovo)}$=0.00 $\gamma_{R,d\ (Esistente)}$=0.00

Verifiche Travate :

Travata: ***Travata 1 Nodi 2 3***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
2	0.12	4.92	6.81			1593.6	8631.6	0.11	-223.0	-11475.6	0.11					
				SLE Rare		784.0			0.0			0.0	6.5	250.0	27.4	
				SLE Freq.		747.2			0.0			0.0	6.2	238.3	26.1	OK
				SLE Q.P.		724.5			0.0			0.0	6.0	231.1	25.3	OK
Camp.	1.20	7.70	7.70	2475.0	891.0	495.2	12835.7	0.12	-891.0	-12835.7	0.12					
				SLE Rare		0.0			-630.0			4.3	0.0	27.7	203.9	
				SLE Freq.		0.0			-630.0			4.3	0.0	27.7	203.9	OK
				SLE Q.P.		0.0			-630.0			4.3	0.0	27.7	203.9	OK
3	2.28	4.92	7.64			1550.9	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1106.2			0.0			0.0	9.1	353.0	42.5	
				SLE Freq.		1041.8			0.0			0.0	8.6	332.4	40.1	OK
				SLE Q.P.		1014.8			0.0			0.0	8.4	323.8	39.0	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 2 3 Sez. 4 Rett. 60x50 [cm] 60X50								
0.12	2.28	2.15	1.00	28.66	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 1 Nodi 2 1***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
2	0.13	4.92	7.64			961.4	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		673.6			0.0			0.0	5.6	214.9	25.9	
				SLE Freq.		679.9			0.0			0.0	5.6	217.0	26.1	OK
				SLE Q.P.		679.2			0.0			0.0	5.6	216.7	26.1	OK
Camp.	1.38	7.70	7.70	2475.0	1169.8	0.0	12835.7	0.12	-1169.8	-12835.7	0.12					
				SLE Rare		0.0			-827.1			5.6	0.0	36.4	267.7	
				SLE Freq.		0.0			-827.1			5.6	0.0	36.4	267.7	OK
				SLE Q.P.		0.0			-827.1			5.6	0.0	36.4	267.7	OK
1	2.63	4.92	7.64			934.6	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		657.6			0.0			0.0	5.4	209.8	25.3	
				SLE Freq.		664.8			0.0			0.0	5.5	212.1	25.6	OK

				SLE Q.P.	664.8		0.0		0.0	5.5	212.1	25.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 2 1 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.63	2.50	1.00	31.04	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 10 Nodi 23 19***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
23	0.13	2.95	4.09			719.5	5574.8	0.09	-356.8	-7263.9	0.09					
				SLE Rare		296.6			0.0			0.0	3.2	155.0	7.0	
				SLE Freq.		280.7			0.0			0.0	3.0	146.7	6.6	OK
				SLE Q.P.		260.8			0.0			0.0	2.8	136.3	6.2	OK
Camp.	1.18	4.62	4.62	2775.0	957.8	0.0	8130.8	0.10	-1051.4	-8130.8	0.10					
				SLE Rare		0.0			-690.3			6.0	0.0	27.8	365.7	
				SLE Freq.		0.0			-690.5			6.0	0.0	27.8	365.8	OK
				SLE Q.P.		0.0			-675.3			5.9	0.0	27.2	357.8	OK
19	2.23	2.95	4.09			1062.4	5574.8	0.09	-5.7	-7263.9	0.09					
				SLE Rare		748.3			0.0			0.0	8.0	391.1	17.7	
				SLE Freq.		711.3			0.0			0.0	7.6	371.7	16.8	OK
				SLE Q.P.		689.7			0.0			0.0	7.4	360.4	16.3	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 23 19 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.23	2.10	1.00	32.21	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 10 Nodi 23 26***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
23	0.13	4.92	7.64			2354.5	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1597.4			0.0			0.0	13.2	509.7	61.4	
				SLE Freq.		1607.6			0.0			0.0	13.3	513.0	61.8	OK
				SLE Q.P.		1607.1			0.0			0.0	13.2	512.8	61.8	OK
Camp.	1.37	7.70	7.70	5850.0	2765.0	0.0	12835.7	0.12	-2765.0	-12835.7	0.12					
				SLE Rare		0.0			-1890.6			12.9	0.0	83.2	611.8	
				SLE Freq.		0.0			-1890.6			12.9	0.0	83.2	611.8	OK
				SLE Q.P.		0.0			-1890.6			12.9	0.0	83.2	611.8	OK
26	2.62	4.92	7.64			2468.3	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1680.7			0.0			0.0	13.9	536.3	64.6	
				SLE Freq.		1685.4			0.0			0.0	13.9	537.8	64.8	OK
				SLE Q.P.		1685.4			0.0			0.0	13.9	537.8	64.8	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 23 26 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.62	2.50	1.00	73.65	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 11 Nodi 28 24***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
28	0.13	2.95	4.09			746.8	5574.8	0.09	-339.8	-7263.8	0.09					
				SLE Rare		322.9			0.0			0.0	3.4	168.8	7.6	
				SLE Freq.		307.1			0.0			0.0	3.3	160.5	7.3	OK
				SLE Q.P.		288.0			0.0			0.0	3.1	150.5	6.8	OK
Camp.	1.18	4.62	4.62	2775.0	957.8	0.0	8130.8	0.10	-1039.5	-8130.8	0.10					
				SLE Rare		0.0			-682.7			5.9	0.0	27.5	361.7	
				SLE Freq.		0.0			-683.4			5.9	0.0	27.5	362.1	OK
				SLE Q.P.		0.0			-673.1			5.8	0.0	27.1	356.6	OK
24	2.23	2.95	4.09			1042.7	5574.8	0.09	-7.4	-7263.9	0.09					
				SLE Rare		733.9			0.0			0.0	7.8	383.5	17.3	
				SLE Freq.		699.1			0.0			0.0	7.5	365.3	16.5	OK
				SLE Q.P.		678.5			0.0			0.0	7.2	354.5	16.0	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 28 24 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.23	2.10	1.00	31.94	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 11 Nodi 28 31***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
28	0.13	4.92	7.64			2378.7	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1615.3			0.0			0.0	13.3	515.4	62.1	
				SLE Freq.		1624.7			0.0			0.0	13.4	518.4	62.5	OK
				SLE Q.P.		1624.1			0.0			0.0	13.4	518.2	62.4	OK
Camp.	1.37	7.70	7.70	5850.0	2765.0	0.0	12835.7	0.12	-2765.0	-12835.7	0.12					
				SLE Rare		0.0			-1890.6			12.9	0.0	83.2	611.8	
				SLE Freq.		0.0			-1890.6			12.9	0.0	83.2	611.8	OK
				SLE Q.P.		0.0			-1890.6			12.9	0.0	83.2	611.8	OK
31	2.62	4.92	7.64			2481.7	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1690.3			0.0			0.0	13.9	539.4	65.0	
				SLE Freq.		1694.6			0.0			0.0	14.0	540.7	65.2	OK
				SLE Q.P.		1694.5			0.0			0.0	14.0	540.7	65.2	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 28 31 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.62	2.50	1.00	73.60	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 12 Nodi 30 25***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
30	0.13	2.95	4.09			883.5	5574.8	0.09	-422.1	-7263.8	0.09					
				SLE Rare		353.0			0.0			0.0	3.8	184.5	8.3	
				SLE Freq.		335.6			0.0			0.0	3.6	175.4	7.9	OK
				SLE Q.P.		317.0			0.0			0.0	3.4	165.6	7.5	OK
Camp.	1.18	4.62	4.62	2775.0	957.8	0.0	8130.8	0.10	-1029.3	-8130.8	0.10					
				SLE Rare		0.0			-675.9			5.9	0.0	27.2	358.1	
				SLE Freq.		0.0			-678.7			5.9	0.0	27.3	359.6	OK
				SLE Q.P.		0.0			-673.1			5.8	0.0	27.1	356.6	OK
25	2.23	2.95	4.09			1014.4	5574.8	0.09	-21.3	-7263.8	0.09					
				SLE Rare		712.8			0.0			0.0	7.6	372.5	16.8	
				SLE Freq.		679.1			0.0			0.0	7.2	354.9	16.0	OK
				SLE Q.P.		659.2			0.0			0.0	7.0	344.5	15.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 30 25 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.23	2.10	1.00	31.61	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 12 Nodi 30 34***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
30	0.13	4.92	7.64			2420.3	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1645.6			0.0			0.0	13.6	525.1	63.3	
				SLE Freq.		1653.6			0.0			0.0	13.6	527.7	63.6	OK
				SLE Q.P.		1653.1			0.0			0.0	13.6	527.5	63.6	OK
Camp.	1.37	7.70	7.70	5850.0	2765.0	0.0	12835.7	0.12	-2765.0	-12835.7	0.12					
				SLE Rare		0.0			-1890.6			12.9	0.0	83.2	611.8	
				SLE Freq.		0.0			-1890.6			12.9	0.0	83.2	611.8	OK
				SLE Q.P.		0.0			-1890.6			12.9	0.0	83.2	611.8	OK
34	2.62	4.92	7.64			2541.2	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1731.9			0.0			0.0	14.3	552.6	66.6	
				SLE Freq.		1735.2			0.0			0.0	14.3	553.7	66.7	OK
				SLE Q.P.		1734.5			0.0			0.0	14.3	553.5	66.7	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 30 34 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.62	2.50	1.00	73.67	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 13 Nodi 16 23***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
16	0.13	4.92	7.64			344.0	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		262.1			0.0			0.0	2.2	83.7	10.1	
				SLE Freq.		264.1			0.0			0.0	2.2	84.3	10.2	OK
				SLE Q.P.		264.1			0.0			0.0	2.2	84.3	10.2	OK
Camp.	1.08	7.70	7.70	975.0	284.7	0.0	12835.7	0.12	-284.7	-12835.7	0.12					
				SLE Rare		0.0			-219.0			1.5	0.0	9.6	70.9	
				SLE Freq.		0.0			-219.0			1.5	0.0	9.6	70.9	OK
				SLE Q.P.		0.0			-219.0			1.5	0.0	9.6	70.9	OK
23	2.04	4.92	7.64			307.1	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		235.4			0.0			0.0	1.9	75.1	9.1	
				SLE Freq.		237.6			0.0			0.0	2.0	75.8	9.1	OK
				SLE Q.P.		237.6			0.0			0.0	2.0	75.8	9.1	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 16 23 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.04	1.91	1.00	9.52	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 13 Nodi 32 33***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
32	0.13	4.92	6.81			141.1	8631.6	0.11	-140.9	-11475.6	0.11					
				SLE Rare		57.7			-2.1			0.0	0.5	18.4	2.0	
				SLE Freq.		61.4			-1.6			0.0	0.5	19.6	2.1	OK
				SLE Q.P.		60.5			-0.8			0.0	0.5	19.3	2.1	OK
Camp.	1.08	7.70	7.70	975.0	284.7	0.0	12835.7	0.12	-368.6	-12835.7	0.12					
				SLE Rare		0.0			-273.1			1.9	0.0	12.0	88.4	
				SLE Freq.		0.0			-271.5			1.8	0.0	11.9	87.9	OK
				SLE Q.P.		0.0			-269.3			1.8	0.0	11.8	87.1	OK
33	2.04	4.92	6.81			261.7	8631.6	0.11	-137.5	-11475.6	0.11					
				SLE Rare		122.7			0.0			0.0	1.0	39.1	4.3	
				SLE Freq.		125.0			0.0			0.0	1.0	39.9	4.4	OK
				SLE Q.P.		124.5			0.0			0.0	1.0	39.7	4.3	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 32 33 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.04	1.91	1.00	9.83	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 13 Nodi 30 32***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
30	0.13	4.92	6.81			70.4	8631.6	0.11	-152.7	-11475.6	0.11					

				SLE Rare	40.4			-7.8			0.1	0.3	12.9	2.5	
				SLE Freq.	47.3			-6.1			0.0	0.4	15.1	2.0	OK
				SLE Q.P.	47.3			-5.1			0.0	0.4	15.1	1.7	OK
Camp.	1.08	7.70	7.70	975.0	284.7	0.0	12835.7	0.12	-455.7	-12835.7	0.12				
				SLE Rare	0.0			-331.6			2.3	0.0	14.6	107.3	
				SLE Freq.	0.0			-324.5			2.2	0.0	14.3	105.0	OK
				SLE Q.P.	0.0			-320.6			2.2	0.0	14.1	103.7	OK
32	2.04	4.92	6.81		66.8	8631.6	0.11	-180.8	-11475.6	0.11					
				SLE Rare	23.4			-13.1			0.1	0.2	7.5	4.2	
				SLE Freq.	32.0			-10.9			0.1	0.3	10.2	3.5	OK
				SLE Q.P.	32.0			-9.8			0.1	0.3	10.2	3.1	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 30 32 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.04	1.91	1.00	9.51	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 13 Nodi 28 30***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
28	0.13	4.92	7.64			287.5	8642.1	0.11	-0.0	-12736.4	0.12					
				SLE Rare		220.2			0.0			0.0	1.8	70.3	8.5	
				SLE Freq.		223.3			0.0			0.0	1.8	71.3	8.6	OK
				SLE Q.P.		223.3			0.0			0.0	1.8	71.3	8.6	OK
Camp.	1.08	7.70	7.70	975.0	284.7	0.0	12835.7	0.12	-284.7	-12835.7	0.12					
				SLE Rare		0.0			-219.0			1.5	0.0	9.6	70.9	
				SLE Freq.		0.0			-219.0			1.5	0.0	9.6	70.9	OK
				SLE Q.P.		0.0			-219.0			1.5	0.0	9.6	70.9	OK
30	2.04	4.92	7.64			327.0	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		247.4			0.0			0.0	2.0	78.9	9.5	
				SLE Freq.		249.9			0.0			0.0	2.1	79.8	9.6	OK
				SLE Q.P.		249.9			0.0			0.0	2.1	79.8	9.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 28 30 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.04	1.91	1.00	9.52	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 13 Nodi 23 28***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
23	0.12	4.92	7.64			319.7	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		244.8			0.0			0.0	2.0	78.1	9.4	
				SLE Freq.		247.4			0.0			0.0	2.0	78.9	9.5	OK
				SLE Q.P.		247.4			0.0			0.0	2.0	78.9	9.5	OK
Camp.	1.08	7.70	7.70	975.0	284.7	0.0	12835.7	0.12	-284.7	-12835.7	0.12					

				SLE Rare	0.0			-219.0		1.5	0.0	9.6	70.9	
				SLE Freq.	0.0			-219.0		1.5	0.0	9.6	70.9	OK
				SLE Q.P.	0.0			-219.0		1.5	0.0	9.6	70.9	OK
28	2.04	4.92	7.64		319.7	8642.1	0.11	0.0	-12736.4	0.12				
				SLE Rare	245.5			0.0		0.0	2.0	78.3	9.4	
				SLE Freq.	248.1			0.0		0.0	2.0	79.2	9.5	OK
				SLE Q.P.	248.1			0.0		0.0	2.0	79.2	9.5	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 23 28 Sez. 4 Rett. 60x50 [cm] 60X50								
0.12	2.04	1.91	1.00	9.32	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 13 Nodi 10 16***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
10	0.13	4.92	6.81			284.2	8631.6	0.11	-109.3	-11475.6	0.11					
				SLE Rare		147.9			0.0			0.0	1.2	47.2	5.2	
				SLE Freq.		149.9			0.0			0.0	1.2	47.8	5.2	OK
				SLE Q.P.		149.9			0.0			0.0	1.2	47.8	5.2	OK
Camp.	1.08	7.70	7.70	975.0	284.7	0.0	12835.7	0.12	-314.4	-12835.7	0.12					
				SLE Rare		0.0			-226.2			1.5	0.0	9.9	73.2	
				SLE Freq.		0.0			-223.9			1.5	0.0	9.9	72.5	OK
				SLE Q.P.		0.0			-223.4			1.5	0.0	9.8	72.3	OK
16	2.04	4.92	6.81			201.9	8631.6	0.11	-66.9	-11475.6	0.11					
				SLE Rare		135.1			0.0			0.0	1.1	43.1	4.7	
				SLE Freq.		137.6			0.0			0.0	1.1	43.9	4.8	OK
				SLE Q.P.		137.6			0.0			0.0	1.1	43.9	4.8	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 10 16 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.04	1.91	1.00	9.41	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 13 Nodi 32 27***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
32	0.12	2.95	4.09			1026.3	5574.8	0.09	-413.9	-7263.9	0.09					
				SLE Rare		443.2			0.0			0.0	4.7	231.6	10.5	
				SLE Freq.		421.6			0.0			0.0	4.5	220.3	10.0	OK
				SLE Q.P.		404.0			0.0			0.0	4.3	211.1	9.5	OK
Camp.	1.17	4.62	4.62	2775.0	957.8	100.8	8130.8	0.10	-985.5	-8130.8	0.10					
				SLE Rare		0.0			-673.1			5.8	0.0	27.1	356.6	
				SLE Freq.		0.0			-673.1			5.8	0.0	27.1	356.6	OK
				SLE Q.P.		0.0			-673.1			5.8	0.0	27.1	356.6	OK
27	2.22	2.95	4.09			1209.1	5574.8	0.09	-78.9	-7263.9	0.09					

				SLE Rare	752.4		0.0		0.0	8.0	393.2	17.8		
				SLE Freq.	715.1		0.0		0.0	7.6	373.7	16.9		OK
				SLE Q.P.	695.4		0.0		0.0	7.4	363.4	16.4		OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 32 27 Sez. 4 Rett. 60x50 [cm] 60X50								
0.12	2.22	2.10	1.00	31.23	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 13 Nodi 32 35***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
32	0.13	4.92	7.64			2457.9	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1672.6			0.0			0.0	13.8	533.7	64.3	
				SLE Freq.		1679.8			0.0			0.0	13.8	536.0	64.6	OK
				SLE Q.P.		1679.5			0.0			0.0	13.8	535.9	64.6	OK
Camp.	1.37	7.70	7.70	5850.0	2765.0	0.0	12835.7	0.12	-2765.0	-12835.7	0.12					
				SLE Rare		0.0			-1890.6			12.9	0.0	83.2	611.8	
				SLE Freq.		0.0			-1890.6			12.9	0.0	83.2	611.8	OK
				SLE Q.P.		0.0			-1890.6			12.9	0.0	83.2	611.8	OK
35	2.62	4.92	7.64			2613.4	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1782.8			0.0			0.0	14.7	568.9	68.6	
				SLE Freq.		1785.2			0.0			0.0	14.7	569.7	68.6	OK
				SLE Q.P.		1784.0			0.0			0.0	14.7	569.3	68.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 32 35 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.62	2.50	1.00	73.79	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 14 Nodi 11 14***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
11	0.12	4.92	7.64			388.1	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		266.2			0.0			0.0	2.2	84.9	10.2	
				SLE Freq.		268.7			0.0			0.0	2.2	85.7	10.3	OK
				SLE Q.P.		264.2			0.0			0.0	2.2	84.3	10.2	OK
Camp.	0.77	7.70	7.70	1725.0	256.5	250.1	12835.7	0.12	-256.5	-12835.7	0.12					
				SLE Rare		104.4			-185.8			1.3	0.7	33.8	60.1	
				SLE Freq.		104.8			-185.8			1.3	0.7	33.9	60.1	OK
				SLE Q.P.		98.9			-185.8			1.3	0.7	32.0	60.1	OK
14	1.42	4.92	7.64			671.1	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		465.7			0.0			0.0	3.8	148.6	17.9	
				SLE Freq.		463.8			0.0			0.0	3.8	148.0	17.8	OK
				SLE Q.P.		456.6			0.0			0.0	3.8	145.7	17.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 11 14 Sez. 4 Rett. 60x50 [cm] 60X50								
0.12	1.42	1.29	1.00	13.34	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 14 Nodi 14 19***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
14	0.13	4.92	7.64			638.7	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		438.3			0.0			0.0	3.6	139.9	16.9	
				SLE Freq.		437.4			0.0			0.0	3.6	139.6	16.8	OK
				SLE Q.P.		429.4			0.0			0.0	3.5	137.0	16.5	OK
Camp.	0.77	7.70	7.70	1725.0	258.4	366.2	12835.7	0.12	-258.4	-12835.7	0.12					
				SLE Rare		203.6			-187.2			1.3	1.4	65.9	60.6	
				SLE Freq.		202.0			-187.2			1.3	1.4	65.4	60.6	OK
				SLE Q.P.		193.7			-187.2			1.3	1.3	62.7	60.6	OK
19	1.42	4.92	7.64			722.3	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		496.5			0.0			0.0	4.1	158.4	19.1	
				SLE Freq.		494.3			0.0			0.0	4.1	157.7	19.0	OK
				SLE Q.P.		485.6			0.0			0.0	4.0	155.0	18.7	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 14 19 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	1.42	1.30	1.00	11.84	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 14 Nodi 19 24***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
19	0.13	4.92	7.64			565.2	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		384.5			0.0			0.0	3.2	122.7	14.8	
				SLE Freq.		386.2			0.0			0.0	3.2	123.2	14.8	OK
				SLE Q.P.		378.8			0.0			0.0	3.1	120.9	14.6	OK
Camp.	0.77	7.70	7.70	1725.0	258.4	252.5	12835.7	0.12	-258.4	-12835.7	0.12					
				SLE Rare		128.5			-187.2			1.3	0.9	41.6	60.6	
				SLE Freq.		129.9			-187.2			1.3	0.9	42.0	60.6	OK
				SLE Q.P.		122.5			-187.2			1.3	0.8	39.6	60.6	OK
24	1.42	4.92	7.64			588.1	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		400.1			0.0			0.0	3.3	127.7	15.4	
				SLE Freq.		401.2			0.0			0.0	3.3	128.0	15.4	OK
				SLE Q.P.		393.8			0.0			0.0	3.2	125.7	15.1	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe

Trave 19 24 Sez. 4 Rett. 60x50 [cm] 60X50

0.13 1.42 1.30 1.00 11.37 102.71 843.61 156.13 ø 8 4br. 20.0'

Travata: ***Travata 14 Nodi 24 25***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
24	0.12	4.92	7.64			403.7	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		271.2			0.0			0.0	2.2	86.6	10.4	
				SLE Freq.		276.8			0.0			0.0	2.3	88.3	10.6	OK
				SLE Q.P.		271.2			0.0			0.0	2.2	86.5	10.4	OK
Camp.	0.77	7.70	7.70	1725.0	258.4	59.0	12835.7	0.12	-258.4	-12835.7	0.12					
				SLE Rare		0.0			-187.2			1.3	0.0	8.2	60.6	
				SLE Freq.		0.0			-187.2			1.3	0.0	8.2	60.6	OK
				SLE Q.P.		0.0			-187.2			1.3	0.0	8.2	60.6	OK
25	1.42	4.92	6.81			353.6	8631.6	0.11	-3.8	-11475.6	0.11					
				SLE Rare		236.1			0.0			0.0	2.0	75.3	8.2	
				SLE Freq.		241.4			0.0			0.0	2.0	77.0	8.4	OK
				SLE Q.P.		236.4			0.0			0.0	2.0	75.4	8.3	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 24 25 Sez. 4 Rett. 60x50 [cm] 60X50								
0.12	1.42	1.30	1.00	11.58	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 14 Nodi 25 27***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
25	0.12	4.92	6.81			3.5	8631.6	0.11	-307.7	-11475.6	0.11					
				SLE Rare		0.0			-86.2			0.6	0.0	2.5	27.7	
				SLE Freq.		1.3			-57.2			0.4	0.0	1.7	18.4	OK
				SLE Q.P.		1.1			-48.6			0.4	0.0	1.4	15.6	OK
Camp.	0.77	7.70	7.70	1725.0	258.4	0.0	12835.7	0.12	-492.1	-12835.7	0.12					
				SLE Rare		0.0			-360.3			2.5	0.0	15.8	116.6	
				SLE Freq.		0.0			-333.0			2.3	0.0	14.6	107.8	OK
				SLE Q.P.		0.0			-324.8			2.2	0.0	14.3	105.1	OK
27	1.42	4.92	6.81			44.6	8631.6	0.11	-355.6	-11475.6	0.11					
				SLE Rare		0.0			-106.8			0.8	0.0	3.1	34.4	
				SLE Freq.		0.0			-81.2			0.6	0.0	2.4	26.1	OK
				SLE Q.P.		0.0			-73.5			0.5	0.0	2.1	23.7	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 25 27 Sez. 4 Rett. 60x50 [cm] 60X50								
0.12	1.42	1.30	1.00	11.48	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 14 Nodi 27 29***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
27	0.13	4.92	6.81			143.1	8631.6	0.11	-486.4	-11475.6	0.11					
				SLE Rare		0.0			-132.1			1.0	0.0	3.8	42.5	
				SLE Freq.		0.0			-108.6			0.8	0.0	3.2	35.0	OK
				SLE Q.P.		0.0			-102.5			0.8	0.0	3.0	33.0	OK
Camp.	0.77	7.70	7.70	1725.0	258.4	53.4	12835.7	0.12	-522.6	-12835.7	0.12					
				SLE Rare		0.0			-263.3			1.8	0.0	11.6	85.2	
				SLE Freq.		0.0			-252.4			1.7	0.0	11.1	81.7	OK
				SLE Q.P.		0.0			-248.2			1.7	0.0	10.9	80.3	OK
29	1.42	4.92	6.81			421.0	8631.6	0.11	-285.8	-11475.6	0.11					
				SLE Rare		168.1			0.0			0.0	1.4	53.6	5.9	
				SLE Freq.		163.5			0.0			0.0	1.4	52.1	5.7	OK
				SLE Q.P.		160.9			0.0			0.0	1.3	51.3	5.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 27 29 Sez. 4 Rett. 60x50 [cm] 60X50								
0.12	1.42	1.30	1.00	14.25	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 15 Nodi 36 35 34 31 26 18 9***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
36	0.13	4.92	7.64			1111.7	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		788.8			0.0			0.0	6.5	251.7	30.3	
				SLE Freq.		786.1			0.0			0.0	6.5	250.8	30.2	OK
				SLE Q.P.		785.5			0.0			0.0	6.5	250.6	30.2	OK
Camp.	1.44	7.70	7.70	2250.0	1165.9	0.0	12835.7	0.12	-1165.9	-12835.7	0.12					
				SLE Rare		0.0			-829.1			5.6	0.0	36.5	268.3	
				SLE Freq.		0.0			-829.1			5.6	0.0	36.5	268.3	OK
				SLE Q.P.		0.0			-829.1			5.6	0.0	36.5	268.3	OK
35	2.75	15.39	15.39			936.2	24374.1	0.15	0.0	-24374.1	0.15					
				SLE Rare		661.8			0.0			0.0	3.2	109.8	26.4	
				SLE Freq.		669.8			0.0			0.0	3.2	111.1	26.8	OK
				SLE Q.P.		669.8			0.0			0.0	3.2	111.1	26.8	OK
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
35	0.12	15.39	15.39			1074.8	24374.1	0.15	0.0	-24374.1	0.15					
				SLE Rare		761.7			0.0			0.0	3.7	126.3	30.4	
				SLE Freq.		762.7			0.0			0.0	3.7	126.5	30.5	OK
				SLE Q.P.		762.5			0.0			0.0	3.7	126.5	30.5	OK
Camp.	1.44	7.70	7.70	2250.0	1165.9	0.0	12835.7	0.12	-1165.9	-12835.7	0.12					
				SLE Rare		0.0			-829.1			5.6	0.0	36.5	268.3	
				SLE Freq.		0.0			-829.1			5.6	0.0	36.5	268.3	OK
				SLE Q.P.		0.0			-829.1			5.6	0.0	36.5	268.3	OK
34	2.75	15.39	15.39			1075.2	24374.1	0.15	0.0	-24374.1	0.15					
				SLE Rare		764.9			0.0			0.0	3.7	126.8	30.6	
				SLE Freq.		771.0			0.0			0.0	3.7	127.9	30.8	OK
				SLE Q.P.		771.0			0.0			0.0	3.7	127.9	30.8	OK
Trave Sez. 4 Rett. 60x50 [cm] 60X50																

34	0.13	15.39	15.39		1086.0	24374.1	0.15	0.0	-24374.1	0.15					
				SLE Rare	770.1			0.0		0.0	3.7	127.7	30.8		
				SLE Freq.	772.8			0.0		0.0	3.7	128.2	30.9	OK	
				SLE Q.P.	772.7			0.0		0.0	3.7	128.1	30.9	OK	
Camp.	1.44	7.70	7.70	2250.0	1165.9	0.0	12835.7	0.12	-1165.9	-12835.7	0.12				
				SLE Rare	0.0			-829.1		5.6	0.0	36.5	268.3		
				SLE Freq.	0.0			-829.1		5.6	0.0	36.5	268.3	OK	
				SLE Q.P.	0.0			-829.1		5.6	0.0	36.5	268.3	OK	
31	2.75	15.39	15.39		1119.2	24374.1	0.15	0.0	-24374.1	0.15					
				SLE Rare	798.0			0.0		0.0	3.9	132.3	31.9		
				SLE Freq.	802.3			0.0		0.0	3.9	133.1	32.0	OK	
				SLE Q.P.	802.3			0.0		0.0	3.9	133.1	32.0	OK	
Trave Sez. 4 Rett. 60x50 [cm] 60X50															
31	0.13	15.39	15.39		1123.8	24374.1	0.15	0.0	-24374.1	0.15					
				SLE Rare	798.9			0.0		0.0	3.9	132.5	31.9		
				SLE Freq.	802.2			0.0		0.0	3.9	133.0	32.0	OK	
				SLE Q.P.	802.2			0.0		0.0	3.9	133.0	32.0	OK	
Camp.	1.44	7.70	7.70	2250.0	1165.9	0.0	12835.7	0.12	-1165.9	-12835.7	0.12				
				SLE Rare	0.0			-829.1		5.6	0.0	36.5	268.3		
				SLE Freq.	0.0			-829.1		5.6	0.0	36.5	268.3	OK	
				SLE Q.P.	0.0			-829.1		5.6	0.0	36.5	268.3	OK	
26	2.75	15.39	15.39		1094.7	24374.1	0.15	0.0	-24374.1	0.15					
				SLE Rare	780.2			0.0		0.0	3.8	129.4	31.2		
				SLE Freq.	784.0			0.0		0.0	3.8	130.0	31.3	OK	
				SLE Q.P.	784.0			0.0		0.0	3.8	130.0	31.3	OK	
Trave Sez. 4 Rett. 60x50 [cm] 60X50															
26	0.13	15.39	15.39		1131.4	24374.1	0.15	0.0	-24374.1	0.15					
				SLE Rare	806.3			0.0		0.0	3.9	133.7	32.2		
				SLE Freq.	810.1			0.0		0.0	3.9	134.3	32.4	OK	
				SLE Q.P.	810.1			0.0		0.0	3.9	134.3	32.4	OK	
Camp.	1.44	7.70	7.70	2250.0	1165.9	0.0	12835.7	0.12	-1165.9	-12835.7	0.12				
				SLE Rare	0.0			-829.1		5.6	0.0	36.5	268.3		
				SLE Freq.	0.0			-829.1		5.6	0.0	36.5	268.3	OK	
				SLE Q.P.	0.0			-829.1		5.6	0.0	36.5	268.3	OK	
18	2.75	15.39	15.39		1049.8	24374.1	0.15	0.0	-24374.1	0.15					
				SLE Rare	746.2			0.0		0.0	3.6	123.8	29.8		
				SLE Freq.	749.9			0.0		0.0	3.6	124.4	30.0	OK	
				SLE Q.P.	749.9			0.0		0.0	3.6	124.4	30.0	OK	
Trave Sez. 4 Rett. 60x50 [cm] 60X50															
18	0.12	15.39	15.39		1038.1	24374.1	0.15	0.0	-24374.1	0.15					
				SLE Rare	740.1			0.0		0.0	3.6	122.7	29.6		
				SLE Freq.	745.9			0.0		0.0	3.6	123.7	29.8	OK	
				SLE Q.P.	745.9			0.0		0.0	3.6	123.7	29.8	OK	
Camp.	1.44	7.70	7.70	2250.0	1165.9	0.0	12835.7	0.12	-1165.9	-12835.7	0.12				
				SLE Rare	0.0			-829.1		5.6	0.0	36.5	268.3		
				SLE Freq.	0.0			-829.1		5.6	0.0	36.5	268.3	OK	
				SLE Q.P.	0.0			-829.1		5.6	0.0	36.5	268.3	OK	
9	2.75	4.92	7.64		1037.8	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare	736.2			0.0		0.0	6.1	234.9	28.3		
				SLE Freq.	738.4			0.0		0.0	6.1	235.6	28.4	OK	
				SLE Q.P.	738.2			0.0		0.0	6.1	235.6	28.4	OK	

Da [m]	**A [m]**	**Dx [m]**	**cotg(θ)**	**V_{Ed} [kN]**	**$V_{Rd,c}$ [kN]**	**V_{Rcd} [kN]**	**V_{Rd} [kN]**	**Staffe**
Trave 36 35 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.75	2.63	1.00	30.29	102.71	843.61	156.13	ø 8 4br. 20.0'

Trave 35 34 Sez. 4 Rett. 60x50 [cm] 60X50

0.12 2.75 2.63 1.00 29.59 102.94 843.61 156.13 ø 8 4br. 20.0'

Trave 34 31 Sez. 4 Rett. 60x50 [cm] 60X50

0.13 2.75 2.63 1.00 29.72 102.94 843.61 156.13 ø 8 4br. 20.0'

Trave 31 26 Sez. 4 Rett. 60x50 [cm] 60X50

0.13 2.75 2.63 1.00 29.69 102.94 843.61 156.13 ø 8 4br. 20.0'

Trave 26 18 Sez. 4 Rett. 60x50 [cm] 60X50

0.13 2.75 2.63 1.00 29.90 102.94 843.61 156.13 ø 8 4br. 20.0'

Trave 18 9 Sez. 4 Rett. 60x50 [cm] 60X50

0.12 2.75 2.63 1.00 29.58 102.71 843.61 156.13 ø 8 4br. 20.0'

Travata: ***Travata 18 Nodi 16 14***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
16	0.13	2.95	4.09			823.7	5574.8	0.09	-388.2	-7263.9	0.09					
				SLE Rare		333.5			0.0			0.0	3.6	174.3	7.9	
				SLE Freq.		311.8			0.0			0.0	3.3	163.0	7.4	OK
				SLE Q.P.		290.3			0.0			0.0	3.1	151.7	6.9	OK
Camp.	1.17	4.62	4.62	2775.0	957.8	0.0	8130.8	0.10	-1021.6	-8130.8	0.10					
				SLE Rare		0.0			-673.1			5.8	0.0	27.1	356.6	
				SLE Freq.		0.0			-673.1			5.8	0.0	27.1	356.6	OK
				SLE Q.P.		0.0			-673.1			5.8	0.0	27.1	356.6	OK
14	2.22	2.95	4.09			1096.7	5574.8	0.09	-9.6	-7263.9	0.09					
				SLE Rare		772.7			0.0			0.0	8.2	403.8	18.3	
				SLE Freq.		731.5			0.0			0.0	7.8	382.3	17.3	OK
				SLE Q.P.		708.3			0.0			0.0	7.6	370.2	16.7	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 16 14 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.22	2.10	1.00	32.13	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 2 Nodi 6 7***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
6	0.13	2.95	4.09			1470.3	5574.8	0.09	-16.5	-7263.9	0.09					
				SLE Rare		886.6			0.0			0.0	9.5	463.3	21.0	
				SLE Freq.		834.4			0.0			0.0	8.9	436.1	19.7	OK
				SLE Q.P.		805.1			0.0			0.0	8.6	420.7	19.0	OK
Camp.	1.20	4.62	4.62	2775.0	999.0	404.1	8130.8	0.10	-999.0	-8130.8	0.10					
				SLE Rare		0.0			-702.0			6.1	0.0	28.2	371.9	
				SLE Freq.		0.0			-702.0			6.1	0.0	28.2	371.9	OK
				SLE Q.P.		0.0			-702.0			6.1	0.0	28.2	371.9	OK
7	2.28	2.95	4.59			1546.5	5592.7	0.09	0.0	-8028.6	0.09					
				SLE Rare		1092.0			0.0			0.0	11.6	570.8	28.6	
				SLE Freq.		1024.6			0.0			0.0	10.9	535.6	26.8	OK
				SLE Q.P.		992.3			0.0			0.0	10.6	518.7	25.9	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 6 7 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.28	2.15	1.00	31.14	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 2 Nodi 5 6***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
5	0.13	4.92	7.64			456.9	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		326.1			0.0			0.0	2.7	104.0	12.5	
				SLE Freq.		329.1			0.0			0.0	2.7	105.0	12.7	OK
				SLE Q.P.		328.0			0.0			0.0	2.7	104.7	12.6	OK
Camp.	1.38	7.70	7.70	975.0	460.8	0.0	12835.7	0.12	-474.5	-12835.7	0.12					
				SLE Rare		0.0			-354.5			2.4	0.0	15.6	114.7	
				SLE Freq.		0.0			-354.5			2.4	0.0	15.6	114.7	OK
				SLE Q.P.		0.0			-354.5			2.4	0.0	15.6	114.7	OK
6	2.63	4.92	6.81			404.2	8631.6	0.11	-86.8	-11475.6	0.11					
				SLE Rare		232.0			0.0			0.0	1.9	74.0	8.1	
				SLE Freq.		239.8			0.0			0.0	2.0	76.5	8.4	OK
				SLE Q.P.		239.3			0.0			0.0	2.0	76.3	8.4	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 5 6 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.63	2.50	1.00	12.76	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 3 Nodi 10 11***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
10	0.13	2.95	4.09			1135.7	5574.8	0.09	-307.2	-7263.9	0.09					
				SLE Rare		539.0			0.0			0.0	5.7	281.6	12.7	
				SLE Freq.		504.0			0.0			0.0	5.4	263.4	11.9	OK
				SLE Q.P.		478.3			0.0			0.0	5.1	250.0	11.3	OK
Camp.	1.20	4.62	4.62	2775.0	999.0	89.1	8130.8	0.10	-999.0	-8130.8	0.10					
				SLE Rare		0.0			-702.0			6.1	0.0	28.2	371.9	
				SLE Freq.		0.0			-702.0			6.1	0.0	28.2	371.9	OK
				SLE Q.P.		0.0			-702.0			6.1	0.0	28.2	371.9	OK
11	2.28	2.95	4.09			1231.4	5574.8	0.09	-3.8	-7263.9	0.09					
				SLE Rare		865.0			0.0			0.0	9.2	452.0	20.4	
				SLE Freq.		814.2			0.0			0.0	8.7	425.5	19.2	OK
				SLE Q.P.		786.9			0.0			0.0	8.4	411.2	18.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe

Trave 10 11 Sez. 4 Rett. 60x50 [cm] 60X50

0.13 2.28 2.15 1.00 32.00 100.24 843.61 156.13 ø 8 4br. 20.0'

Travata: ***Travata 3 Nodi 9 10***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
9	0.13	4.92	7.64			2594.7	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1769.1			0.0			0.0	14.6	564.5	68.0	
				SLE Freq.		1772.1			0.0			0.0	14.6	565.5	68.1	OK
				SLE Q.P.		1771.1			0.0			0.0	14.6	565.2	68.1	OK
Camp.	1.38	7.70	7.70	5850.0	2765.0	0.0	12835.7	0.12	-2765.0	-12835.7	0.12					
				SLE Rare		0.0			-1890.6			12.9	0.0	83.2	611.8	
				SLE Freq.		0.0			-1890.6			12.9	0.0	83.2	611.8	OK
				SLE Q.P.		0.0			-1890.6			12.9	0.0	83.2	611.8	OK
10	2.63	4.92	7.64			2426.5	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1649.4			0.0			0.0	13.6	526.3	63.4	
				SLE Freq.		1656.5			0.0			0.0	13.7	528.6	63.7	OK
				SLE Q.P.		1655.7			0.0			0.0	13.6	528.3	63.7	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 9 10 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.63	2.50	1.00	73.87	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 4 Nodi 1 5 9***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
1	0.13	4.92	7.64			720.2	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		510.2			0.0			0.0	4.2	162.8	19.6	
				SLE Freq.		502.3			0.0			0.0	4.1	160.3	19.3	OK
				SLE Q.P.		500.3			0.0			0.0	4.1	159.7	19.2	OK
Camp.	1.08	11.35	9.13	2250.0	650.0	0.0	18338.5	0.14	-650.0	-15010.1	0.13					
				SLE Rare		0.0			-462.3			2.8	0.0	19.4	126.9	
				SLE Freq.		0.0			-462.3			2.8	0.0	19.4	126.9	OK
				SLE Q.P.		0.0			-462.3			2.8	0.0	19.4	126.9	OK
5	2.03	15.39	15.39			335.4	24374.1	0.15	-41.1	-24374.1	0.15					
				SLE Rare		230.9			0.0			0.0	1.1	38.3	9.2	
				SLE Freq.		240.9			0.0			0.0	1.2	39.9	9.6	OK
				SLE Q.P.		240.9			0.0			0.0	1.2	39.9	9.6	OK
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
5	0.13	15.39	15.39			703.9	24374.1	0.15	0.0	-24374.1	0.15					
				SLE Rare		495.6			0.0			0.0	2.4	82.2	19.8	
				SLE Freq.		494.0			0.0			0.0	2.4	81.9	19.7	OK
				SLE Q.P.		493.7			0.0			0.0	2.4	81.9	19.7	OK
Camp.	1.13	10.29	8.38	2250.0	711.9	0.0	16747.5	0.14	-711.9	-13870.8	0.13					
				SLE Rare		0.0			-506.3			3.2	0.0	21.5	151.1	
				SLE Freq.		0.0			-506.3			3.2	0.0	21.5	151.1	OK
				SLE Q.P.		0.0			-506.3			3.2	0.0	21.5	151.1	OK

9	2.13	4.92	6.81		415.1	8631.6	0.11	-43.6	-11475.6	0.11					
				SLE Rare	296.7			0.0		0.0	2.5	94.6	10.4		
				SLE Freq.	305.5			0.0		0.0	2.5	97.4	10.7	OK	
				SLE Q.P.	305.5			0.0		0.0	2.5	97.4	10.7	OK	

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 1 5 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.03	1.90	1.00	23.48	102.71	843.61	156.13	ø 8 4br. 20.0'
Trave 5 9 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.13	2.00	1.00	23.98	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 5 Nodi 2 6 10***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
2	0.13	4.92	6.81			149.9	8631.6	0.11	-125.8	-11475.6	0.11					
				SLE Rare		69.1			0.0		0.0	0.6	22.0	2.4		
				SLE Freq.		75.8			0.0		0.0	0.6	24.2	2.6	OK	
				SLE Q.P.		75.8			0.0		0.0	0.6	24.2	2.6	OK	
Camp.	1.08	11.35	9.13	975.0	281.7	0.0	18338.5	0.14	-368.3	-15010.1	0.13					
				SLE Rare		0.0			-278.7		1.7	0.0	11.7	76.5		
				SLE Freq.		0.0			-274.1		1.7	0.0	11.5	75.3	OK	
				SLE Q.P.		0.0			-271.5		1.7	0.0	11.4	74.5	OK	
6	2.03	15.39	15.39			184.3	24374.1	0.15	-118.0	-24374.1	0.15					
				SLE Rare		90.6			0.0		0.0	0.4	15.0	3.6		
				SLE Freq.		96.2			0.0		0.0	0.5	15.9	3.8	OK	
				SLE Q.P.		95.5			0.0		0.0	0.5	15.8	3.8	OK	
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
6	0.13	15.39	15.39			46.7	24374.1	0.15	-243.3	-24374.1	0.15					
				SLE Rare		0.0			-32.5		0.2	0.0	1.3	5.4		
				SLE Freq.		6.0			-22.8		0.1	0.0	1.0	3.8	OK	
				SLE Q.P.		6.0			-18.0		0.1	0.0	1.0	3.0	OK	
Camp.	1.13	10.29	8.38	975.0	308.5	0.0	16747.5	0.14	-560.1	-13870.8	0.13					
				SLE Rare		0.0			-409.5		2.6	0.0	17.4	122.2		
				SLE Freq.		0.0			-401.0		2.6	0.0	17.0	119.7	OK	
				SLE Q.P.		0.0			-396.8		2.5	0.0	16.8	118.4	OK	
10	2.13	4.92	6.81			75.6	8631.6	0.11	-248.7	-11475.6	0.11					
				SLE Rare		0.0			-35.9		0.3	0.0	1.0	11.5		
				SLE Freq.		0.3			-28.3		0.2	0.0	0.8	9.1	OK	
				SLE Q.P.		0.3			-24.8		0.2	0.0	0.7	8.0	OK	

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 2 6 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.03	1.90	1.00	9.45	100.24	843.61	156.13	ø 8 4br. 20.0'
Trave 6 10 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.13	2.00	1.00	9.82	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 6 Nodi 3 7***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
3	0.13	4.92	6.81			192.2	8631.6	0.11	-404.4	-11475.6	0.11					
				SLE Rare		33.5			-28.6			0.2	0.3	10.7	9.2	
				SLE Freq.		39.2			-25.4			0.2	0.3	12.5	8.2	OK
				SLE Q.P.		39.2			-24.7			0.2	0.3	12.5	8.0	OK
Camp.	1.08	7.70	7.70	1725.0	498.4	0.0	12835.7	0.12	-968.4	-12835.7	0.12					
				SLE Rare		0.0			-700.4			4.8	0.0	30.8	226.7	
				SLE Freq.		0.0			-680.2			4.6	0.0	29.9	220.1	OK
				SLE Q.P.		0.0			-676.7			4.6	0.0	29.8	219.0	OK
7	2.03	5.35	6.81			0.0	9281.4	0.11	-622.6	-11480.7	0.11					
				SLE Rare		0.0			-269.9			2.0	0.0	8.5	86.9	
				SLE Freq.		0.0			-237.4			1.7	0.0	7.4	76.4	OK
				SLE Q.P.		0.0			-231.8			1.7	0.0	7.3	74.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 3 7 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.03	1.90	1.00	18.35	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 6 Nodi 7 11***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
7	0.13	5.35	6.81			0.0	9281.4	0.11	-670.5	-11480.7	0.11					
				SLE Rare		0.0			-280.6			2.1	0.0	8.8	90.4	
				SLE Freq.		0.0			-241.4			1.8	0.0	7.6	77.7	OK
				SLE Q.P.		0.0			-234.3			1.7	0.0	7.4	75.4	OK
Camp.	1.13	7.70	7.70	1725.0	545.8	0.0	12835.7	0.12	-1136.2	-12835.7	0.12					
				SLE Rare		0.0			-829.4			5.6	0.0	36.5	268.4	
				SLE Freq.		0.0			-793.2			5.4	0.0	34.9	256.7	OK
				SLE Q.P.		0.0			-786.9			5.4	0.0	34.6	254.7	OK
11	2.13	5.35	6.81			0.0	9281.4	0.11	-504.5	-11480.7	0.11					
				SLE Rare		0.0			-130.4			1.0	0.0	4.1	42.0	
				SLE Freq.		0.0			-100.7			0.7	0.0	3.2	32.4	OK
				SLE Q.P.		0.0			-94.8			0.7	0.0	3.0	30.5	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 7 11 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.13	2.00	1.00	18.32	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 7 Nodi 33 29***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm

Trave Sez. 4 Rett. 60x50 [cm] 60X50

33	0.13	4.92	6.81		1686.2	8631.6	0.11	-674.4	-11475.6	0.11						
				SLE Rare	605.2			0.0			0.0	5.0	193.0	21.1	
				SLE Freq.	574.5			0.0			0.0	4.8	183.2	20.1	OK
				SLE Q.P.	558.4			0.0			0.0	4.6	178.1	19.5	OK
Camp.	1.18	7.70	7.70	2475.0 854.3	513.2	12835.7	0.12	-935.3	-12835.7	0.12						
				SLE Rare	0.0			-604.0			4.1	0.0	26.6	195.5	
				SLE Freq.	0.0			-604.0			4.1	0.0	26.6	195.5	OK
				SLE Q.P.	0.0			-604.0			4.1	0.0	26.6	195.5	OK
29	2.23	4.92	7.64		1192.0	8642.1	0.11	0.0	-12736.4	0.12						
				SLE Rare	850.9			0.0			0.0	7.0	271.5	32.7	
				SLE Freq.	805.9			0.0			0.0	6.6	257.2	31.0	OK
				SLE Q.P.	788.3			0.0			0.0	6.5	251.5	30.3	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 33 29 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.23	2.10	1.00	27.69	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 7 Nodi 36 33***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
36	0.13	4.92	7.64			2138.5	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1462.0			0.0			0.0	12.0	466.5	56.2	
				SLE Freq.		1467.4			0.0			0.0	12.1	468.2	56.4	OK
				SLE Q.P.		1467.4			0.0			0.0	12.1	468.2	56.4	OK
Camp.	1.38	7.70	7.70	5100.0	2410.5	0.0	12835.7	0.12	-2410.5	-12835.7	0.12					
				SLE Rare		0.0			-1654.3			11.3	0.0	72.8	535.4	
				SLE Freq.		0.0			-1654.3			11.3	0.0	72.8	535.4	OK
				SLE Q.P.		0.0			-1654.3			11.3	0.0	72.8	535.4	OK
33	2.63	4.92	7.64			2171.9	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1486.2			0.0			0.0	12.2	474.2	57.1	
				SLE Freq.		1489.2			0.0			0.0	12.3	475.2	57.3	OK
				SLE Q.P.		1488.6			0.0			0.0	12.3	475.0	57.2	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 36 33 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.63	2.50	1.00	63.88	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 9 Nodi 18 16***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
18	0.13	4.92	7.64			2512.0	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1710.8			0.0			0.0	14.1	545.9	65.8	
				SLE Freq.		1715.0			0.0			0.0	14.1	547.2	65.9	OK

				SLE Q.P.	1714.8			0.0			0.0	14.1	547.2	65.9	OK
Camp.	1.38	7.70	7.70	5850.0	2765.0	0.0	12835.7	0.12	-2765.0	-12835.7	0.12				
				SLE Rare	0.0			-1890.6			12.9	0.0	83.2	611.8	
				SLE Freq.	0.0			-1890.6			12.9	0.0	83.2	611.8	OK
				SLE Q.P.	0.0			-1890.6			12.9	0.0	83.2	611.8	OK
16	2.63	4.92	7.64		2377.3	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare	1613.9			0.0			0.0	13.3	515.0	62.1	
				SLE Freq.	1623.0			0.0			0.0	13.4	517.9	62.4	OK
				SLE Q.P.	1622.3			0.0			0.0	13.4	517.7	62.4	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 18 16 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.63	2.50	1.00	73.73	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 101 Nodi 102 103***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
102	0.05	1.46	1.77			383.3	991.9	0.23	0.0	-1131.1	0.23					
				SLE Rare		263.9			0.0			0.0	33.0	585.7	26.8	
				SLE Freq.		218.4			0.0			0.0	27.3	484.8	22.2	OK
				SLE Q.P.		206.9			0.0			0.0	25.9	459.2	21.0	OK
Camp.	1.17	3.08	3.08	788.6	303.6	0.0	1735.7	0.29	-301.5	-1735.7	0.29					
				SLE Rare		0.0			-207.5			18.8	0.0	41.3	488.7	
				SLE Freq.		0.0			-169.3			15.4	0.0	33.7	398.9	OK
				SLE Q.P.		0.0			-159.8			14.5	0.0	31.8	376.4	OK
103	2.29	2.08	1.95			248.8	1278.7	0.25	-43.5	-1223.8	0.25					
				SLE Rare		160.0			0.0			0.0	17.2	365.2	5.1	
				SLE Freq.		130.6			0.0			0.0	14.0	298.0	4.2	OK
				SLE Q.P.		123.3			0.0			0.0	13.2	281.5	4.0	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 102 103 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.24	2.19	1.00	9.68	21.49	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 102 Nodi 106 107***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
106	0.05	1.46	1.77			710.7	992.0	0.23	0.0	-1130.8	0.23					
				SLE Rare		485.0			0.0			0.0	60.6	1076.4	49.1	
				SLE Freq.		389.3			0.0			0.0	48.7	863.9	39.4	OK
				SLE Q.P.		365.4			0.0			0.0	45.7	810.9	37.0	OK
Camp.	1.17	3.08	3.08	1441.8	554.8	0.0	1735.7	0.29	-551.0	-1735.7	0.29					
				SLE Rare		0.0			-373.8			33.9	0.0	74.4	880.4	
				SLE Freq.		0.0			-295.7			26.8	0.0	58.9	696.5	OK

				SLE Q.P.	0.0			-276.2			25.0	0.0	55.0	650.6	OK
107	2.29	2.08	2.19		411.6	1280.7	0.26	0.0	-1331.9	0.26					
				SLE Rare	278.3			0.0			0.0	29.9	635.2	9.8	
				SLE Freq.	217.5			0.0			0.0	23.3	496.4	7.6	OK
				SLE Q.P.	202.2			0.0			0.0	21.7	461.6	7.1	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 106 107 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.24	2.19	1.00	17.78	21.49	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 103 Nodi 116 114***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
116	0.05	1.46	1.77			491.9	991.6	0.23	0.0	-1131.7	0.23					
				SLE Rare		332.3			0.0			0.0	41.6	737.5	33.8	
				SLE Freq.		257.1			0.0			0.0	32.2	570.5	26.1	OK
				SLE Q.P.		237.9			0.0			0.0	29.8	527.9	24.2	OK
Camp.	1.14	3.08	3.08	1231.1	455.5	0.0	1735.7	0.29	-452.2	-1735.7	0.29					
				SLE Rare		0.0			-307.7			27.9	0.0	61.2	724.8	
				SLE Freq.		0.0			-245.0			22.2	0.0	48.8	577.1	OK
				SLE Q.P.		0.0			-229.4			20.8	0.0	45.7	540.2	OK
114	2.24	2.08	2.19			419.2	1282.3	0.26	0.0	-1332.5	0.26					
				SLE Rare		288.9			0.0			0.0	31.0	659.5	10.3	
				SLE Freq.		239.7			0.0			0.0	25.7	547.2	8.6	OK
				SLE Q.P.		227.7			0.0			0.0	24.4	519.9	8.1	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 116 114 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.19	2.14	1.00	14.77	21.50	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 104 Nodi 130 125***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
130	0.05	1.46	1.77			519.9	991.6	0.23	0.0	-1131.7	0.23					
				SLE Rare		353.0			0.0			0.0	44.2	783.5	35.9	
				SLE Freq.		276.5			0.0			0.0	34.6	613.7	28.1	OK
				SLE Q.P.		257.2			0.0			0.0	32.2	570.8	26.2	OK
Camp.	1.14	3.08	3.08	1231.1	455.5	0.0	1735.7	0.29	-452.3	-1735.7	0.29					
				SLE Rare		0.0			-307.7			27.9	0.0	61.3	724.8	
				SLE Freq.		0.0			-245.0			22.2	0.0	48.8	577.2	OK
				SLE Q.P.		0.0			-229.4			20.8	0.0	45.7	540.3	OK
125	2.24	2.08	2.19			401.1	1282.3	0.26	0.0	-1332.5	0.26					
				SLE Rare		275.3			0.0			0.0	29.5	628.5	9.8	
				SLE Freq.		227.4			0.0			0.0	24.4	519.1	8.1	OK

				SLE Q.P.		215.6			0.0			0.0	23.1	492.2	7.7	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 130 125 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.19	2.14	1.00	14.97	21.50	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 105 Nodi 133 129***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
133	0.05	1.46	1.77			336.3	991.6	0.23	0.0	-1131.7	0.23					
				SLE Rare		233.6			0.0			0.0	29.2	518.5	23.8	
				SLE Freq.		193.6			0.0			0.0	24.2	429.7	19.7	OK
				SLE Q.P.		183.6			0.0			0.0	23.0	407.5	18.7	OK
Camp.	1.14	3.08	3.08	698.0	258.2	0.0	1735.7	0.29	-256.4	-1735.7	0.29					
				SLE Rare		0.0			-177.1			16.1	0.0	35.3	417.2	
				SLE Freq.		0.0			-145.8			13.2	0.0	29.0	343.4	OK
				SLE Q.P.		0.0			-138.0			12.5	0.0	27.5	325.0	OK
129	2.24	2.08	2.19			217.0	1282.3	0.26	0.0	-1332.5	0.26					
				SLE Rare		151.3			0.0			0.0	16.2	345.4	5.4	
				SLE Freq.		129.2			0.0			0.0	13.9	294.9	4.6	OK
				SLE Q.P.		123.9			0.0			0.0	13.3	282.8	4.4	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 133 129 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.19	2.14	1.00	8.68	21.50	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 106 Nodi 123 119***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
123	0.05	1.46	1.77			476.9	991.6	0.23	0.0	-1131.7	0.23					
				SLE Rare		321.6			0.0			0.0	40.2	713.8	32.7	
				SLE Freq.		247.0			0.0			0.0	30.9	548.3	25.1	OK
				SLE Q.P.		228.0			0.0			0.0	28.5	505.9	23.2	OK
Camp.	1.14	3.08	3.08	1231.1	455.5	0.0	1735.7	0.29	-452.3	-1735.7	0.29					
				SLE Rare		0.0			-307.7			27.9	0.0	61.2	724.8	
				SLE Freq.		0.0			-245.0			22.2	0.0	48.8	577.2	OK
				SLE Q.P.		0.0			-229.4			20.8	0.0	45.7	540.3	OK
119	2.24	2.08	2.19			436.4	1282.3	0.26	0.0	-1332.5	0.26					
				SLE Rare		301.2			0.0			0.0	32.3	687.5	10.8	
				SLE Freq.		251.5			0.0			0.0	27.0	574.2	9.0	OK
				SLE Q.P.		239.5			0.0			0.0	25.7	546.8	8.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 123 119 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.19	2.14	1.00	14.63	21.50	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 107 Nodi 128 124***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
128	0.05	1.46	1.77			489.0	991.6	0.23	0.0	-1131.7	0.23					
				SLE Rare		330.5			0.0			0.0	41.3	733.5	33.6	
				SLE Freq.		255.4			0.0			0.0	31.9	566.7	26.0	OK
				SLE Q.P.		236.2			0.0			0.0	29.5	524.2	24.0	OK
Camp.	1.14	3.08	3.08	1231.1	455.5	0.0	1735.7	0.29	-452.3	-1735.7	0.29					
				SLE Rare		0.0			-307.7			27.9	0.0	61.2	724.8	
				SLE Freq.		0.0			-245.0			22.2	0.0	48.8	577.2	OK
				SLE Q.P.		0.0			-229.4			20.8	0.0	45.7	540.2	OK
124	2.24	2.08	2.19			427.6	1282.3	0.26	0.0	-1332.5	0.26					
				SLE Rare		294.7			0.0			0.0	31.6	672.7	10.5	
				SLE Freq.		245.6			0.0			0.0	26.3	560.7	8.8	OK
				SLE Q.P.		233.7			0.0			0.0	25.1	533.5	8.3	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 128 124 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.19	2.14	1.00	14.72	21.50	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 108 Nodi 132 127***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
132	0.05	1.46	1.77			557.1	991.6	0.23	0.0	-1131.7	0.23					
				SLE Rare		380.0			0.0			0.0	47.5	843.2	38.6	
				SLE Freq.		301.7			0.0			0.0	37.7	669.6	30.7	OK
				SLE Q.P.		282.1			0.0			0.0	35.3	626.1	28.7	OK
Camp.	1.14	3.08	3.08	1231.1	455.5	0.0	1735.7	0.29	-452.3	-1735.7	0.29					
				SLE Rare		0.0			-307.7			27.9	0.0	61.3	724.8	
				SLE Freq.		0.0			-245.1			22.2	0.0	48.8	577.2	OK
				SLE Q.P.		0.0			-229.4			20.8	0.0	45.7	540.3	OK
127	2.24	2.08	2.19			372.6	1282.3	0.26	0.0	-1332.5	0.26					
				SLE Rare		254.5			0.0			0.0	27.3	581.0	9.1	
				SLE Freq.		207.8			0.0			0.0	22.3	474.3	7.4	OK
				SLE Q.P.		196.2			0.0			0.0	21.0	448.0	7.0	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 132 127 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.19	2.14	1.00	15.27	21.50	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 109 Nodi 110 111***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
110	0.05	1.46	1.77			623.2	992.0	0.23	0.0	-1130.8	0.23					
				SLE Rare		423.6			0.0			0.0	53.0	940.1	42.9	
				SLE Freq.		334.8			0.0			0.0	41.9	743.1	33.9	OK
				SLE Q.P.		312.5			0.0			0.0	39.1	693.5	31.7	OK
Camp.	1.17	3.08	3.08	1345.7	517.8	0.0	1735.7	0.29	-514.3	-1735.7	0.29					
				SLE Rare		0.0			-349.3			31.7	0.0	69.5	822.8	
				SLE Freq.		0.0			-277.1			25.1	0.0	55.2	652.7	OK
				SLE Q.P.		0.0			-259.1			23.5	0.0	51.6	610.2	OK
111	2.29	2.08	2.19			427.2	1280.7	0.26	0.0	-1331.9	0.26					
				SLE Rare		287.5			0.0			0.0	30.9	656.3	10.1	
				SLE Freq.		231.3			0.0			0.0	24.8	527.9	8.1	OK
				SLE Q.P.		217.3			0.0			0.0	23.3	496.0	7.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 110 111 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.24	2.19	1.00	16.66	21.49	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 110 Nodi 102 106***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
102	0.05	1.51	1.51			410.1	1011.3	0.22	-172.1	-1011.3	0.22					
				SLE Rare		127.8			0.0			0.0	15.7	284.8	9.5	
				SLE Freq.		119.5			0.0			0.0	14.7	266.3	8.9	OK
				SLE Q.P.		118.0			0.0			0.0	14.5	263.0	8.8	OK
Camp.	1.08	3.08	3.08	170.6	49.3	4.0	1735.7	0.29	-52.2	-1735.7	0.29					
				SLE Rare		0.0			-37.9			3.4	0.0	7.5	89.3	
				SLE Freq.		0.0			-37.9			3.4	0.0	7.5	89.3	OK
				SLE Q.P.		0.0			-37.9			3.4	0.0	7.5	89.3	OK
106	2.10	1.51	1.51			259.6	1011.3	0.22	-321.1	-1011.3	0.22					
				SLE Rare		0.0			-39.2			4.8	0.0	2.9	87.4	
				SLE Freq.		0.0			-31.1			3.8	0.0	2.3	69.4	OK
				SLE Q.P.		0.0			-29.8			3.7	0.0	2.2	66.3	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 102 106 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.10	2.05	1.00	4.91	20.38	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 110 Nodi 106 110***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
106	0.05	1.51	1.51			371.6	1011.3	0.22	-179.9	-1011.3	0.22					
				SLE Rare		101.0			0.0			0.0	12.4	225.0	7.5	
				SLE Freq.		95.8			0.0			0.0	11.8	213.5	7.2	OK
				SLE Q.P.		95.0			0.0			0.0	11.7	211.7	7.1	OK
Camp.	1.13	3.08	3.08	170.6	54.0	4.2	1735.7	0.29	-54.0	-1735.7	0.29					
				SLE Rare		0.0			-41.5			3.8	0.0	8.3	97.8	
				SLE Freq.		0.0			-41.5			3.8	0.0	8.3	97.8	OK
				SLE Q.P.		0.0			-41.5			3.8	0.0	8.3	97.8	OK
110	2.20	1.51	1.51			276.0	1011.3	0.22	-258.5	-1011.3	0.22					
				SLE Rare		6.1			-1.1			0.1	0.7	13.6	2.4	
				SLE Freq.		9.6			0.0			0.0	1.2	21.3	0.7	OK
				SLE Q.P.		9.6			0.0			0.0	1.2	21.3	0.7	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 106 110 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.20	2.15	1.00	4.34	20.38	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 111 Nodi 103 107***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 25x40 [cm] 25X40																
103	0.13	2.01	2.78			4.2	2749.1	0.12	-108.8	-3664.3	0.13					
				SLE Rare		0.0			-37.7			1.0	0.0	4.1	38.5	
				SLE Freq.		0.0			-29.3			0.7	0.0	3.2	29.9	OK
				SLE Q.P.		0.0			-27.5			0.7	0.0	3.0	28.1	OK
Camp.	1.08	3.08	3.08	325.1	93.9	0.0	4024.6	0.13	-251.0	-4024.6	0.13					
				SLE Rare		0.0			-183.9			4.4	0.0	29.1	188.5	
				SLE Freq.		0.0			-173.4			4.1	0.0	27.4	177.8	OK
				SLE Q.P.		0.0			-171.3			4.1	0.0	27.1	175.6	OK
107	2.03	2.18	2.78			0.0	2953.5	0.12	-184.8	-3664.6	0.13					
				SLE Rare		0.0			-104.0			2.6	0.0	12.1	106.1	
				SLE Freq.		0.0			-91.6			2.3	0.0	10.6	93.5	OK
				SLE Q.P.		0.0			-89.4			2.3	0.0	10.4	91.2	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 103 107 Sez. 2 Rett. 25x40 [cm] 25X40								
0.13	2.03	1.90	1.00	3.59	36.83	279.77	62.13	ø 8 2br. 20.0'

Travata: ***Travata 111 Nodi 107 111***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 25x40 [cm] 25X40																
107	0.13	2.01	2.78			31.4	2747.0	0.12	-43.3	-3664.0	0.13					

				SLE Rare	12.9			-3.2		0.1	0.4	13.0	3.3	
				SLE Freq.	15.8			-2.2		0.1	0.5	15.9	2.3	OK
				SLE Q.P.	15.8			-2.0		0.1	0.5	15.9	2.1	OK
Camp.	1.13	3.08	3.08	325.0	102.8	0.0	4024.6	0.13	-155.9	-4024.6	0.13			
				SLE Rare	0.0			-117.6		2.8	0.0	18.6	120.5	
				SLE Freq.	0.0			-113.6		2.7	0.0	18.0	116.5	OK
				SLE Q.P.	0.0			-113.0		2.7	0.0	17.9	115.8	OK
111	2.13	2.01	2.78		21.7	2747.0	0.12	-32.3	-3664.0	0.13				
				SLE Rare	16.8			0.0		0.0	0.5	17.0	2.2	
				SLE Freq.	19.6			0.0		0.0	0.6	19.8	2.6	OK
				SLE Q.P.	19.6			0.0		0.0	0.6	19.8	2.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 107 111 Sez. 2 Rett. 25x40 [cm] 25X40								
0.13	2.13	2.00	1.00	3.30	36.83	279.77	62.13	ø 8 2br. 20.0'

Travata: ***Travata 112 Nodi 111 114***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 25x40 [cm] 25X40																
111	0.13	2.01	2.78			49.4	2747.0	0.12	-21.9	-3664.0	0.13					
				SLE Rare		26.4			0.0			0.0	0.8	26.6	3.5	
				SLE Freq.		22.7			0.0			0.0	0.6	23.0	3.0	OK
				SLE Q.P.		21.6			0.0			0.0	0.6	21.8	2.8	OK
Camp.	0.77	3.08	3.08	332.2	49.4	8.9	4024.6	0.13	-49.4	-4024.6	0.13					
				SLE Rare		0.0			-37.9			0.9	0.0	6.0	38.8	
				SLE Freq.		0.0			-37.7			0.9	0.0	6.0	38.7	OK
				SLE Q.P.		0.0			-37.7			0.9	0.0	6.0	38.6	OK
114	1.42	2.01	3.08			95.7	2749.0	0.12	0.0	-4022.1	0.13					
				SLE Rare		68.5			0.0			0.0	1.9	69.3	9.8	
				SLE Freq.		60.4			0.0			0.0	1.7	61.0	8.6	OK
				SLE Q.P.		58.3			0.0			0.0	1.7	58.9	8.3	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 111 114 Sez. 2 Rett. 25x40 [cm] 25X40								
0.12	1.42	1.29	1.00	2.62	36.83	279.77	62.13	ø 8 2br. 20.0'

Travata: ***Travata 113 Nodi 116 123***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
116	0.05	1.51	1.51			348.3	1011.3	0.22	-303.3	-1011.3	0.22					
				SLE Rare		22.2			0.0			0.0	2.7	49.4	1.7	
				SLE Freq.		22.3			0.0			0.0	2.7	49.6	1.7	OK
				SLE Q.P.		22.2			0.0			0.0	2.7	49.5	1.7	OK
Camp.	1.08	3.08	3.08	170.6	49.8	0.6	1735.7	0.29	-52.4	-1735.7	0.29					

				SLE Rare	0.0			-38.3		3.5	0.0	7.6	90.3	
				SLE Freq.	0.0			-38.3		3.5	0.0	7.6	90.3	OK
				SLE Q.P.	0.0			-38.3		3.5	0.0	7.6	90.3	OK
123	2.11	1.51	1.51		390.2	1011.3	0.22	-259.6	-1011.3	0.22				
				SLE Rare	65.7			0.0		0.0	8.1	146.4	4.9	
				SLE Freq.	65.8			0.0		0.0	8.1	146.6	4.9	OK
				SLE Q.P.	65.5			0.0		0.0	8.0	146.0	4.9	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 116 123 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.11	2.06	1.00	4.72	20.38	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 113 Nodi 123 128***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
123	0.05	1.51	1.51			331.4	1011.3	0.22	-314.3	-1011.3	0.22					
				SLE Rare		6.6			-0.4		0.0	0.8	14.6	0.8		
				SLE Freq.		8.9			0.0		0.0	1.1	19.8	0.7	OK	
				SLE Q.P.		8.9			0.0		0.0	1.1	19.8	0.7	OK	
Camp.	1.08	3.08	3.08	170.6	49.8	2.2	1735.7	0.29	-52.6	-1735.7	0.29					
				SLE Rare		0.0			-38.3		3.5	0.0	7.6	90.3		
				SLE Freq.		0.0			-38.3		3.5	0.0	7.6	90.3	OK	
				SLE Q.P.		0.0			-38.3		3.5	0.0	7.6	90.3	OK	
128	2.11	1.51	1.51			402.6	1011.3	0.22	-244.0	-1011.3	0.22					
				SLE Rare		82.3			0.0		0.0	10.1	183.5	6.2		
				SLE Freq.		79.5			0.0		0.0	9.8	177.2	5.9	OK	
				SLE Q.P.		79.0			0.0		0.0	9.7	175.9	5.9	OK	

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 123 128 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.11	2.06	1.00	4.83	20.38	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 114 Nodi 128 130***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
128	0.05	1.51	1.51			307.6	1011.3	0.22	-312.8	-1011.3	0.22					
				SLE Rare		0.0			-8.5		1.0	0.0	0.6	19.0		
				SLE Freq.		1.4			-3.9		0.5	0.2	3.1	8.8	OK	
				SLE Q.P.		1.4			-3.5		0.4	0.2	3.1	7.8	OK	
Camp.	1.08	3.08	3.08	170.6	49.8	0.0	1735.7	0.29	-55.8	-1735.7	0.29					
				SLE Rare		0.0			-38.3		3.5	0.0	7.6	90.3		
				SLE Freq.		0.0			-38.3		3.5	0.0	7.6	90.3	OK	
				SLE Q.P.		0.0			-38.3		3.5	0.0	7.6	90.3	OK	
130	2.11	1.51	1.51			393.9	1011.3	0.22	-213.9	-1011.3	0.22					

							SLE Rare	95.6		0.0		0.0	11.7	213.0	7.1	
							SLE Freq.	90.1		0.0		0.0	11.1	200.7	6.7	OK
							SLE Q.P.	89.2		0.0		0.0	11.0	198.7	6.7	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 128 130 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.11	2.06	1.00	4.78	20.38	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 114 Nodi 130 132***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
130	0.05	1.51	1.51			264.1	1011.3	0.22	-312.7	-1011.3	0.22					
				SLE Rare		0.0			-33.0			4.1	0.0	2.5	73.6	
				SLE Freq.		0.0			-24.4			3.0	0.0	1.8	54.5	OK
				SLE Q.P.		0.0			-23.0			2.8	0.0	1.7	51.3	OK
Camp.	1.08	3.08	3.08	170.6	49.8	6.0	1735.7	0.29	-49.8	-1735.7	0.29					
				SLE Rare		0.0			-38.3			3.5	0.0	7.6	90.3	
				SLE Freq.		0.0			-38.3			3.5	0.0	7.6	90.3	OK
				SLE Q.P.		0.0			-38.3			3.5	0.0	7.6	90.3	OK
132	2.11	1.51	1.51			408.3	1011.3	0.22	-171.6	-1011.3	0.22					
				SLE Rare		127.2			0.0			0.0	15.6	283.4	9.5	
				SLE Freq.		118.6			0.0			0.0	14.6	264.3	8.9	OK
				SLE Q.P.		117.1			0.0			0.0	14.4	261.0	8.7	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 130 132 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.11	2.06	1.00	4.85	20.38	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 114 Nodi 132 133***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
132	0.05	1.51	1.51			212.8	1011.3	0.22	-348.1	-1011.3	0.22					
				SLE Rare		0.0			-81.2			10.0	0.0	6.1	180.9	
				SLE Freq.		0.0			-68.4			8.4	0.0	5.1	152.4	OK
				SLE Q.P.		0.0			-66.3			8.1	0.0	5.0	147.8	OK
Camp.	1.08	3.08	3.08	170.6	49.8	10.4	1735.7	0.29	-50.3	-1735.7	0.29					
				SLE Rare		0.0			-38.3			3.5	0.0	7.6	90.3	
				SLE Freq.		0.0			-38.3			3.5	0.0	7.6	90.3	OK
				SLE Q.P.		0.0			-38.3			3.5	0.0	7.6	90.3	OK
133	2.11	1.51	1.51			446.9	1011.3	0.22	-123.6	-1011.3	0.22					
				SLE Rare		175.6			0.0			0.0	21.6	391.2	13.1	
				SLE Freq.		162.7			0.0			0.0	20.0	362.5	12.2	OK
				SLE Q.P.		160.4			0.0			0.0	19.7	357.4	12.0	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 132 133 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.11	2.06	1.00	5.21	20.38	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 115 Nodi 119 124***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 25x40 [cm] 25X40																
119	0.13	2.01	3.08			62.4	2749.0	0.12	0.0	-4022.1	0.13					
				SLE Rare		44.1			0.0			0.0	1.3	44.6	6.3	
				SLE Freq.		38.9			0.0			0.0	1.1	39.3	5.6	OK
				SLE Q.P.		37.5			0.0			0.0	1.1	37.9	5.4	OK
Camp.	0.77	3.08	3.08	325.0	48.7	12.9	4024.6	0.13	-48.7	-4024.6	0.13					
				SLE Rare		0.0			-37.4			0.9	0.0	5.9	38.4	
				SLE Freq.		0.0			-37.4			0.9	0.0	5.9	38.4	OK
				SLE Q.P.		0.0			-37.4			0.9	0.0	5.9	38.4	OK
124	1.42	2.01	3.08			85.5	2749.0	0.12	0.0	-4022.1	0.13					
				SLE Rare		60.9			0.0			0.0	1.7	61.6	8.7	
				SLE Freq.		54.6			0.0			0.0	1.5	55.2	7.8	OK
				SLE Q.P.		53.1			0.0			0.0	1.5	53.6	7.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 119 124 Sez. 2 Rett. 25x40 [cm] 25X40								
0.13	1.42	1.30	1.00	2.29	38.11	279.77	62.13	ø 8 2br. 20.0'

Travata: ***Travata 115 Nodi 124 125***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 25x40 [cm] 25X40																
124	0.12	2.01	2.78			42.1	2747.0	0.12	-12.9	-3664.0	0.13					
				SLE Rare		29.0			0.0			0.0	0.8	29.3	3.8	
				SLE Freq.		24.3			0.0			0.0	0.7	24.5	3.2	OK
				SLE Q.P.		22.9			0.0			0.0	0.7	23.1	3.0	OK
Camp.	0.77	3.08	3.08	325.0	48.7	0.0	4024.6	0.13	-48.7	-4024.6	0.13					
				SLE Rare		0.0			-37.4			0.9	0.0	5.9	38.4	
				SLE Freq.		0.0			-37.4			0.9	0.0	5.9	38.4	OK
				SLE Q.P.		0.0			-37.4			0.9	0.0	5.9	38.4	OK
125	1.42	2.01	2.78			55.2	2747.0	0.12	-11.5	-3664.0	0.13					
				SLE Rare		38.4			0.0			0.0	1.1	38.8	5.1	
				SLE Freq.		32.7			0.0			0.0	0.9	33.0	4.3	OK
				SLE Q.P.		31.1			0.0			0.0	0.9	31.4	4.1	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe

Trave 124 125 Sez. 2 Rett. 25x40 [cm] 25X40

0.13 1.42 1.30 1.00 2.21 36.83 279.77 62.13 ø 8 2br. 20.0'

Travata: ***Travata 116 Nodi 110 116***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
110	0.05	1.51	1.51			368.9	1011.3	0.22	-260.6	-1011.3	0.22					
				SLE Rare		56.7			0.0			0.0	7.0	126.4	4.2	
				SLE Freq.		54.0			0.0			0.0	6.6	120.3	4.0	OK
				SLE Q.P.		53.5			0.0			0.0	6.6	119.1	4.0	OK
Camp.	1.08	3.08	3.08	170.6	49.8	2.5	1735.7	0.29	-50.1	-1735.7	0.29					
				SLE Rare		0.0			-38.3			3.5	0.0	7.6	90.3	
				SLE Freq.		0.0			-38.3			3.5	0.0	7.6	90.3	OK
				SLE Q.P.		0.0			-38.3			3.5	0.0	7.6	90.3	OK
116	2.11	1.51	1.51			357.2	1011.3	0.22	-280.7	-1011.3	0.22					
				SLE Rare		37.0			0.0			0.0	4.5	82.4	2.8	
				SLE Freq.		39.0			0.0			0.0	4.8	86.8	2.9	OK
				SLE Q.P.		39.0			0.0			0.0	4.8	86.8	2.9	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 110 116 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.11	2.06	1.00	4.50	20.38	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 117 Nodi 125 127***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 25x40 [cm] 25X40																
125	0.13	2.01	2.78			7.9	2747.0	0.12	-37.0	-3664.0	0.13					
				SLE Rare		1.7			-6.7			0.2	0.0	1.7	6.9	
				SLE Freq.		1.1			-7.8			0.2	0.0	1.1	8.0	OK
				SLE Q.P.		0.8			-7.2			0.2	0.0	0.8	7.4	OK
Camp.	0.77	3.08	3.08	325.0	48.7	0.0	4024.6	0.13	-72.9	-4024.6	0.13					
				SLE Rare		0.0			-55.2			1.3	0.0	8.7	56.6	
				SLE Freq.		0.0			-56.7			1.3	0.0	9.0	58.1	OK
				SLE Q.P.		0.0			-56.1			1.3	0.0	8.9	57.5	OK
127	1.42	2.01	2.78			28.4	2747.0	0.12	-42.0	-3664.0	0.13					
				SLE Rare		5.6			-1.3			0.0	0.2	5.7	1.3	
				SLE Freq.		3.3			-2.4			0.1	0.1	3.3	2.5	OK
				SLE Q.P.		2.7			-2.1			0.1	0.1	2.7	2.1	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 125 127 Sez. 2 Rett. 25x40 [cm] 25X40								
0.13	1.42	1.30	1.00	2.20	36.83	279.77	62.13	ø 8 2br. 20.0'

Travata: ***Travata 117 Nodi 127 129***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 25x40 [cm] 25X40																
127	0.12	2.18	2.78			0.0	2955.9	0.12	-152.0	-3664.9	0.13					
				SLE Rare		0.0			-97.7			2.5	0.0	11.3	99.6	
				SLE Freq.		0.0			-93.1			2.4	0.0	10.8	95.0	OK
				SLE Q.P.		0.0			-91.7			2.3	0.0	10.7	93.6	OK
Camp.	0.77	3.08	3.08	325.0	48.7	0.0	4024.6	0.13	-157.4	-4024.6	0.13					
				SLE Rare		0.0			-109.9			2.6	0.0	17.4	112.6	
				SLE Freq.		0.0			-106.6			2.5	0.0	16.9	109.3	OK
				SLE Q.P.		0.0			-105.9			2.5	0.0	16.7	108.5	OK
129	1.42	2.01	2.78			29.3	2747.0	0.12	-86.9	-3664.0	0.13					
				SLE Rare		0.0			-17.1			0.4	0.0	1.8	17.4	
				SLE Freq.		0.0			-15.7			0.4	0.0	1.7	16.0	OK
				SLE Q.P.		0.0			-15.3			0.4	0.0	1.7	15.6	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 127 129 Sez. 2 Rett. 25x40 [cm] 25X40								
0.12	1.42	1.30	1.00	3.00	36.83	279.77	62.13	ø 8 2br. 20.0'

Travata: ***Travata 118 Nodi 114 119***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 25x40 [cm] 25X40																
114	0.13	2.01	3.08			80.6	2749.0	0.12	0.0	-4022.1	0.13					
				SLE Rare		57.0			0.0			0.0	1.6	57.7	8.2	
				SLE Freq.		49.4			0.0			0.0	1.4	49.9	7.1	OK
				SLE Q.P.		47.4			0.0			0.0	1.3	47.9	6.8	OK
Camp.	0.77	3.08	3.08	325.0	48.7	30.7	4024.6	0.13	-48.7	-4024.6	0.13					
				SLE Rare		12.6			-37.4			0.9	0.3	13.0	38.4	
				SLE Freq.		4.9			-37.4			0.9	0.1	5.9	38.4	OK
				SLE Q.P.		3.0			-37.4			0.9	0.1	5.9	38.4	OK
119	1.42	2.01	3.08			103.2	2749.0	0.12	0.0	-4022.1	0.13					
				SLE Rare		73.8			0.0			0.0	2.1	74.6	10.6	
				SLE Freq.		65.9			0.0			0.0	1.9	66.6	9.4	OK
				SLE Q.P.		64.1			0.0			0.0	1.8	64.7	9.2	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 114 119 Sez. 2 Rett. 25x40 [cm] 25X40								
0.13	1.42	1.30	1.00	2.30	38.11	279.77	62.13	ø 8 2br. 20.0'

- En.Ex.Sys. WinStrand
- Verifiche travi

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.
- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.

- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche pilastri

Modalità di verifica

I pilastri vengono verificati (a discrezione dell'utente) secondo una delle seguenti modalità:

- Presso-tenso flessione deviata.
- Presso-tenso flessione retta. In tale caso viene svolta prima la verifica a presso-tenso flessione considerando come azioni agenti lo sforzo normale ed il momento M_x agente sulla sezione poi, disgiuntamente, considerando come azioni agenti lo sforzo normale e l'altro momento M_y. A discrezione dell'operatore tali momenti (a favore della sicurezza) possono essere incrementati di un fattore di amplificazione anch'esso a discrezione dell'utente.

Le verifiche vengono effettuate nella sezione di sommità e in quella di base in tutte le combinazioni di carico.

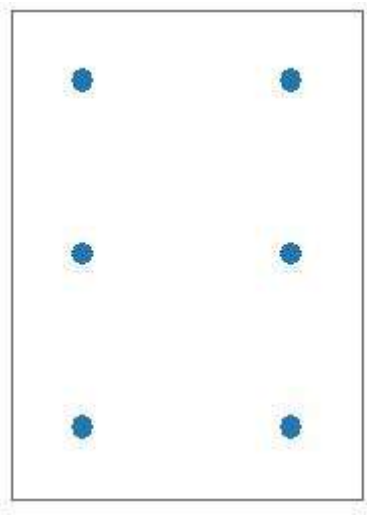
Nelle stampe si riportano (per le due sezioni di verifica succitate) le sollecitazioni relative alla combinazione di carico critica. Le sollecitazioni di verifica alle estremità sono valutate ad una ascissa di spunto definita dall'utente.

Sezioni Impiegate:

Sez. Num.	Info	Dimensioni	Criterio	Calcestruzzo	γ_M	F.C.	f_{ck} [kg/cm²]	f_{cd} [kg/cm²]	σ_{RARE} [kg/cm²]	σ_{FREQ} [kg/cm²]	σ_{QP} [kg/cm²]	Acciaio	γ_M	F.C.	f_{yk} [kg/cm²]	f_{yd} [kg/cm²]	σ_{yRARE} [kg/cm²]	σ_{yFREQ} [kg/cm²]	σ_{yQP} [kg/cm²]	Copr. [cm]
1	Rett. 25X35	B 25 [cm] H 35 [cm]	Verpil	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0	4500.0	3.50

Verifiche Pilastri:

Sezioni trasversali impiegate

Identificativo	Sezione trasversale	info
Sezione 1 / Posizione A		6 ø 16 Af=12.06 [cm²] ø 16

Pilastro: 3/103 / L 4.90[m] / Sezione 1 B 25 [cm]H 35 [cm]

Af: Sezione 1 / Posizione A

Staffe: ø 8/15.0 x 490.3

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
3	2	-79.15	248.6	14.4	0.06

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
3 - 103	36	-42.53	-370.7	-101.7	0.05
103	2	-72.18	-1.2	10.8	0.04

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kN]	V_{Rd12} [kN]	S/R_{12} [kN]	$cotg(\theta)_{13}$	V_{d13} [kN]	V_{Rd13} [kN]	S/R_{13} [kN]	Staffe
0.13	5.03	1.00	1.52	71.04	0.02	1.00	0.52	47.44	0.01	ø 8/15.0

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
3	Ft. 40	-55.30	182.1	25.0	-42.2
	$\sigma_{s,c}$38	-58.19	182.3	12.0	-116.5
	$\sigma_{cls,Max}$40	-55.30	182.1	25.0	-8.8
	$\sigma_{cls,Med}$38	-58.19	182.3	12.0	-5.5
3 - 103	Ft. 40	-44.57	-180.2	-8.2	-30.6
	$\sigma_{s,c}$38	-47.46	-183.9	1.6	-99.4
	$\sigma_{cls,Max}$38	-47.46	-183.9	1.6	-7.5
	$\sigma_{cls,Med}$38	-47.46	-183.9	1.6	-4.5
103	Ft. 40	-49.93	0.9	8.4	-69.1
	$\sigma_{s,c}$38	-52.82	-0.8	6.8	-76.5
	$\sigma_{cls,Max}$38	-52.82	-0.8	6.8	-5.2
	$\sigma_{cls,Med}$38	-52.82	-0.8	6.8	-5.0
	Combinazioni Frequenti				
3	Ft. 44	-52.37	167.0	22.0	-41.2
	$\sigma_{s,c}$42	-53.51	167.5	17.5	-108.4
	$\sigma_{cls,Max}$42	-53.51	167.5	17.5	-8.2
	$\sigma_{cls,Med}$42	-53.51	167.5	17.5	-5.1
3 - 103	Ft. 44	-41.65	-164.2	-10.7	-28.7
	$\sigma_{s,c}$42	-42.79	-166.0	-7.1	-90.8
	$\sigma_{cls,Max}$42	-42.79	-166.0	-7.1	-6.9
	$\sigma_{cls,Med}$42	-42.79	-166.0	-7.1	-4.1
103	Ft. 44	-47.01	1.4	5.7	-65.4
	$\sigma_{s,c}$42	-48.15	0.7	5.2	-69.6
	$\sigma_{cls,Max}$42	-48.15	0.7	5.2	-4.7
	$\sigma_{cls,Med}$42	-48.15	0.7	5.2	-4.6
	Combinazioni Quasi Permanenti				
3	Ft. 45	-52.47	165.2	18.8	-42.3
	$\sigma_{s,c}$45	-52.47	165.2	18.8	-106.8
	$\sigma_{cls,Max}$45	-52.47	165.2	18.8	-8.1
	$\sigma_{cls,Med}$45	-52.47	165.2	18.8	-5.0
3 - 103	Ft. 45	-41.75	-162.7	-9.3	-29.4
	$\sigma_{s,c}$45	-41.75	-162.7	-9.3	-89.2
	$\sigma_{cls,Max}$45	-41.75	-162.7	-9.3	-6.8
	$\sigma_{cls,Med}$45	-41.75	-162.7	-9.3	-4.0
103	Ft. 45	-47.11	1.2	4.8	-65.8
	$\sigma_{s,c}$45	-47.11	1.2	4.8	-68.1
	$\sigma_{cls,Max}$45	-47.11	1.2	4.8	-4.6
	$\sigma_{cls,Med}$45	-47.11	1.2	4.8	-4.5

Pilastro: 7/107 / L 4.90[m] / Sezione 1 B 25 [cm]H 35 [cm]

Af: Sezione 1 / Posizione A

Staffe: ø 8/15.0 x 490.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
7	36	-43.33	250.8	130.7	0.05
7 - 107	13	-25.18	258.7	94.0	0.04
107	2	-59.25	14.2	22.6	0.04

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kN]	V_{Rd12} [kN]	S/R_{12} [kN]	$cotg(\theta)_{13}$	V_{d13} [kN]	V_{Rd13} [kN]	S/R_{13} [kN]	Staffe
0.13	5.03	1.00	1.02	71.04	0.01	1.00	0.49	47.44	0.01	ø 8/15.0

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
7	Ft. 40	-43.50	10.6	22.5	-55.5
	$\sigma_{s,c}$38	-48.45	10.9	6.6	-72.0
	$\sigma_{cls,Max}$38	-48.45	10.9	6.6	-4.9
	$\sigma_{cls,Med}$38	-48.45	10.9	6.6	-4.6
7 - 107	Ft. 40	-32.79	10.7	11.1	-42.5
	$\sigma_{s,c}$38	-37.73	9.9	23.6	-60.0
	$\sigma_{cls,Max}$38	-37.73	9.9	23.6	-4.3
	$\sigma_{cls,Med}$38	-37.73	9.9	23.6	-3.6
107	Ft. 40	-38.15	10.6	16.8	-49.0
	$\sigma_{s,c}$38	-43.09	10.4	15.1	-66.0
	$\sigma_{cls,Max}$38	-43.09	10.4	15.1	-4.6
	$\sigma_{cls,Med}$38	-43.09	10.4	15.1	-4.1
	Combinazioni Frequenti				
7	Ft. 44	-40.71	4.9	19.1	-53.2
	$\sigma_{s,c}$42	-42.61	5.2	13.5	-64.1
	$\sigma_{cls,Max}$42	-42.61	5.2	13.5	-4.4
	$\sigma_{cls,Med}$42	-42.61	5.2	13.5	-4.0
7 - 107	Ft. 41	-30.37	15.3	9.3	-38.6
	$\sigma_{s,c}$42	-31.89	14.8	11.3	-50.1
	$\sigma_{cls,Max}$42	-31.89	14.8	11.3	-3.5
	$\sigma_{cls,Med}$42	-31.89	14.8	11.3	-3.0
107	Ft. 44	-35.35	10.1	12.8	-45.9
	$\sigma_{s,c}$42	-37.25	10.0	12.4	-57.1
	$\sigma_{cls,Max}$42	-37.25	10.0	12.4	-4.0
	$\sigma_{cls,Med}$42	-37.25	10.0	12.4	-3.5
	Combinazioni Quasi Permanenti				
7	Ft. 45	-41.07	4.2	15.2	-54.6
	$\sigma_{s,c}$45	-41.07	4.2	15.2	-62.1
	$\sigma_{cls,Max}$45	-41.07	4.2	15.2	-4.3
	$\sigma_{cls,Med}$45	-41.07	4.2	15.2	-3.9
7 - 107	Ft. 45	-30.35	15.7	8.3	-38.7
	$\sigma_{s,c}$45	-30.35	15.7	8.3	-47.5
	$\sigma_{cls,Max}$45	-30.35	15.7	8.3	-3.3
	$\sigma_{cls,Med}$45	-30.35	15.7	8.3	-2.9
107	Ft. 45	-35.71	10.0	11.7	-46.7
	$\sigma_{s,c}$45	-35.71	10.0	11.7	-54.8
	$\sigma_{cls,Max}$45	-35.71	10.0	11.7	-3.8
	$\sigma_{cls,Med}$45	-35.71	10.0	11.7	-3.4

Pilastro: 11/111 / L 4.90[m] / Sezione 1 B 25 [cm]H 35 [cm]

Af: Sezione 1 / Posizione A

Staffe: ø 8/15.0 x 490.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
11	13	-35.23	-417.1	-117.5	0.06
11 - 111	13	-24.51	400.6	121.3	0.05
111	2	-55.51	-8.6	7.9	0.03

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kN]	V_{Rd12} [kN]	S/R_{12} [kN]	$cotg(\theta)_{13}$	V_{d13} [kN]	V_{Rd13} [kN]	S/R_{13} [kN]	Staffe
0.13	5.03	1.00	1.67	71.04	0.02	1.00	0.50	47.44	0.01	ø 8/15.0

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
11	Ft. 37	-42.24	-152.9	-37.0	-26.2
	$\sigma_{s,c}38$	-45.68	-152.9	-41.3	-99.5
	$\sigma_{cls,Max}38$	-45.68	-152.9	-41.3	-7.7
	$\sigma_{cls,Med}38$	-45.68	-152.9	-41.3	-4.3
11 - 111	Ft. 40	-30.73	142.4	38.3	-11.4
	$\sigma_{s,c}38$	-34.97	140.3	50.2	-83.9
	$\sigma_{cls,Max}38$	-34.97	140.3	50.2	-6.7
	$\sigma_{cls,Med}38$	-34.97	140.3	50.2	-3.3
111	Ft. 40	-36.09	-7.1	5.7	-48.9
	$\sigma_{s,c}38$	-40.32	-6.3	4.5	-59.3
	$\sigma_{cls,Max}38$	-40.32	-6.3	4.5	-4.0
	$\sigma_{cls,Med}38$	-40.32	-6.3	4.5	-3.8
	Combinazioni Frequenti				
11	Ft. 41	-39.07	-150.8	-33.7	-22.7
	$\sigma_{s,c}42$	-40.45	-150.1	-33.1	-90.0
	$\sigma_{cls,Max}42$	-40.45	-150.1	-33.1	-7.0
	$\sigma_{cls,Med}42$	-40.45	-150.1	-33.1	-3.8
11 - 111	Ft. 41	-28.35	137.7	35.2	-9.4
	$\sigma_{s,c}42$	-29.73	137.3	37.0	-73.3
	$\sigma_{cls,Max}42$	-29.73	137.3	37.0	-5.9
	$\sigma_{cls,Med}42$	-29.73	137.3	37.0	-2.8
111	Ft. 44	-33.45	-6.7	2.3	-45.9
	$\sigma_{s,c}42$	-35.09	-6.4	2.0	-51.4
	$\sigma_{cls,Max}42$	-35.09	-6.4	2.0	-3.5
	$\sigma_{cls,Med}42$	-35.09	-6.4	2.0	-3.3
	Combinazioni Quasi Permanenti				
11	Ft. 45	-39.07	-150.1	-31.3	-23.4
	$\sigma_{s,c}45$	-39.07	-150.1	-31.3	-87.7
	$\sigma_{cls,Max}45$	-39.07	-150.1	-31.3	-6.8
	$\sigma_{cls,Med}45$	-39.07	-150.1	-31.3	-3.7
11 - 111	Ft. 45	-28.36	137.1	34.0	-9.8
	$\sigma_{s,c}45$	-28.36	137.1	34.0	-70.7
	$\sigma_{cls,Max}45$	-28.36	137.1	34.0	-5.7
	$\sigma_{cls,Med}45$	-28.36	137.1	34.0	-2.7
111	Ft. 45	-33.72	-6.5	1.3	-46.5
	$\sigma_{s,c}45$	-33.72	-6.5	1.3	-49.3
	$\sigma_{cls,Max}45$	-33.72	-6.5	1.3	-3.3
	$\sigma_{cls,Med}45$	-33.72	-6.5	1.3	-3.2

Pilastro: 14/114 / L 4.90[m] / Sezione 1 B 25 [cm]H 35 [cm]

Af: Sezione 1 / Posizione A

Staffe: ø 8/15.0 x 490.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
14	17	-41.30	-429.7	-105.6	0.06
14 - 114	17	-30.58	424.1	87.9	0.05
114	2	-60.78	-2.4	-8.1	0.04

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kN]	V_{Rd12} [kN]	S/R_{12} [kN]	$cotg(\theta)_{13}$	V_{d13} [kN]	V_{Rd13} [kN]	S/R_{13} [kN]	Staffe
0.13	5.03	1.00	1.74	71.04	0.02	1.00	0.44	47.44	0.01	ø 8/15.0

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
14	Ft. 37	-46.49	-135.8	-56.1	-31.4
	$\sigma_{s,c}$38	-49.58	-136.7	-60.4	-106.1
	$\sigma_{cls,Max}$38	-49.58	-136.7	-60.4	-8.3
	$\sigma_{cls,Med}$38	-49.58	-136.7	-60.4	-4.7
14 - 114	Ft. 37	-35.77	131.7	39.1	-20.3
	$\sigma_{s,c}$38	-38.86	133.0	46.2	-87.4
	$\sigma_{cls,Max}$38	-38.86	133.0	46.2	-6.9
	$\sigma_{cls,Med}$38	-38.86	133.0	46.2	-3.7
114	Ft. 37	-41.13	-2.1	-8.5	-56.4
	$\sigma_{s,c}$38	-44.22	-1.8	-7.1	-64.6
	$\sigma_{cls,Max}$38	-44.22	-1.8	-7.1	-4.4
	$\sigma_{cls,Med}$38	-44.22	-1.8	-7.1	-4.2
	Combinazioni Frequenti				
14	Ft. 41	-43.44	-133.2	-52.3	-28.3
	$\sigma_{s,c}$42	-44.62	-132.5	-51.6	-96.6
	$\sigma_{cls,Max}$42	-44.62	-132.5	-51.6	-7.5
	$\sigma_{cls,Med}$42	-44.62	-132.5	-51.6	-4.2
14 - 114	Ft. 41	-32.73	128.8	32.1	-17.9
	$\sigma_{s,c}$42	-33.90	128.3	33.7	-77.0
	$\sigma_{cls,Max}$42	-33.90	128.3	33.7	-6.1
	$\sigma_{cls,Med}$42	-33.90	128.3	33.7	-3.2
114	Ft. 41	-38.08	-2.2	-10.1	-51.7
	$\sigma_{s,c}$42	-39.26	-2.1	-8.9	-57.9
	$\sigma_{cls,Max}$42	-39.26	-2.1	-8.9	-4.0
	$\sigma_{cls,Med}$42	-39.26	-2.1	-8.9	-3.7
	Combinazioni Quasi Permanenti				
14	Ft. 45	-43.38	-132.1	-49.9	-28.9
	$\sigma_{s,c}$45	-43.38	-132.1	-49.9	-94.4
	$\sigma_{cls,Max}$45	-43.38	-132.1	-49.9	-7.4
	$\sigma_{cls,Med}$45	-43.38	-132.1	-49.9	-4.1
14 - 114	Ft. 45	-32.67	127.8	30.9	-18.2
	$\sigma_{s,c}$45	-32.67	127.8	30.9	-74.6
	$\sigma_{cls,Max}$45	-32.67	127.8	30.9	-5.9
	$\sigma_{cls,Med}$45	-32.67	127.8	30.9	-3.1
114	Ft. 45	-38.03	-2.2	-9.5	-51.7
	$\sigma_{s,c}$45	-38.03	-2.2	-9.5	-56.3
	$\sigma_{cls,Max}$45	-38.03	-2.2	-9.5	-3.9
	$\sigma_{cls,Med}$45	-38.03	-2.2	-9.5	-3.6

Pilastro: 19/119 / L 4.90[m] / Sezione 1 B 25 [cm]H 35 [cm]

Af: Sezione 1 / Posizione A

Staffe: ø 8/15.0 x 490.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
19	17	-43.29	-404.8	-23.7	0.05
19 - 119	13	-32.59	404.1	5.2	0.05
119	2	-61.33	0.3	-12.9	0.04

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kN]	V_{Rd12} [kN]	S/R_{12} [kN]	$cotg(\theta)_{13}$	V_{d13} [kN]	V_{Rd13} [kN]	S/R_{13} [kN]	Staffe
0.13	5.03	1.00	1.65	71.04	0.02	1.00	0.41	47.44	0.01	ø 8/15.0

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
19	Ft. 37	-47.09	-99.6	-62.3	-37.3
	$\sigma_{s,c}$38	-50.02	-100.9	-66.9	-101.8
	$\sigma_{cls,Max}$38	-50.02	-100.9	-66.9	-7.9
	$\sigma_{cls,Med}$38	-50.02	-100.9	-66.9	-4.7
19 - 119	Ft. 37	-36.37	100.0	38.4	-26.7
	$\sigma_{s,c}$38	-39.30	101.3	45.8	-82.5
	$\sigma_{cls,Max}$38	-39.30	101.3	45.8	-6.4
	$\sigma_{cls,Med}$38	-39.30	101.3	45.8	-3.7
119	Ft. 40	-41.37	0.2	-9.8	-56.8
	$\sigma_{s,c}$38	-44.66	0.2	-10.5	-65.6
	$\sigma_{cls,Max}$38	-44.66	0.2	-10.5	-4.5
	$\sigma_{cls,Med}$38	-44.66	0.2	-10.5	-4.2
	Combinazioni Frequenti				
19	Ft. 41	-44.18	-97.0	-58.0	-34.4
	$\sigma_{s,c}$42	-45.26	-96.5	-57.5	-92.4
	$\sigma_{cls,Max}$42	-45.26	-96.5	-57.5	-7.1
	$\sigma_{cls,Med}$42	-45.26	-96.5	-57.5	-4.3
19 - 119	Ft. 41	-33.46	97.3	30.9	-24.6
	$\sigma_{s,c}$42	-34.54	96.9	32.8	-72.3
	$\sigma_{cls,Max}$42	-34.54	96.9	32.8	-5.6
	$\sigma_{cls,Med}$42	-34.54	96.9	32.8	-3.3
119	Ft. 44	-38.61	0.2	-12.2	-52.4
	$\sigma_{s,c}$42	-39.90	0.2	-12.3	-59.2
	$\sigma_{cls,Max}$42	-39.90	0.2	-12.3	-4.1
	$\sigma_{cls,Med}$42	-39.90	0.2	-12.3	-3.8
	Combinazioni Quasi Permanenti				
19	Ft. 45	-44.09	-96.0	-55.7	-34.9
	$\sigma_{s,c}$45	-44.09	-96.0	-55.7	-90.3
	$\sigma_{cls,Max}$45	-44.09	-96.0	-55.7	-7.0
	$\sigma_{cls,Med}$45	-44.09	-96.0	-55.7	-4.2
19 - 119	Ft. 45	-33.37	96.4	29.8	-24.8
	$\sigma_{s,c}$45	-33.37	96.4	29.8	-70.0
	$\sigma_{cls,Max}$45	-33.37	96.4	29.8	-5.4
	$\sigma_{cls,Med}$45	-33.37	96.4	29.8	-3.2
119	Ft. 45	-38.73	0.2	-12.9	-52.4
	$\sigma_{s,c}$45	-38.73	0.2	-12.9	-57.6
	$\sigma_{cls,Max}$45	-38.73	0.2	-12.9	-4.0
	$\sigma_{cls,Med}$45	-38.73	0.2	-12.9	-3.7

Pilastro: 24/124 / L 4.90[m] / Sezione 1 B 25 [cm]H 35 [cm]

Af: Sezione 1 / Posizione A

Staffe: ø 8/15.0 x 490.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
24	17	-43.16	-377.6	-11.9	0.05
24 - 124	17	-32.44	378.6	-6.5	0.04
124	2	-59.76	1.1	-12.4	0.04

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kN]	V_{Rd12} [kN]	S/R_{12} [kN]	$cotg(\theta)_{13}$	V_{d13} [kN]	V_{Rd13} [kN]	S/R_{13} [kN]	Staffe
0.13	5.03	1.00	1.54	71.04	0.02	1.00	0.40	47.44	0.01	ø 8/15.0

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
24	Ft. 37	-45.94	-80.6	-58.4	-39.7
	$\sigma_{s,c}$38	-48.83	-82.9	-62.9	-96.2
	$\sigma_{cls,Max}$38	-48.83	-82.9	-62.9	-7.4
	$\sigma_{cls,Med}$38	-48.83	-82.9	-62.9	-4.6
24 - 124	Ft. 40	-34.84	83.6	31.9	-28.7
	$\sigma_{s,c}$38	-38.12	84.6	42.7	-77.3
	$\sigma_{cls,Max}$38	-38.12	84.6	42.7	-5.9
	$\sigma_{cls,Med}$38	-38.12	84.6	42.7	-3.6
124	Ft. 40	-40.20	0.8	-9.5	-55.1
	$\sigma_{s,c}$38	-43.47	0.8	-10.1	-63.9
	$\sigma_{cls,Max}$38	-43.47	0.8	-10.1	-4.4
	$\sigma_{cls,Med}$38	-43.47	0.8	-10.1	-4.1
	Combinazioni Frequenti				
24	Ft. 41	-43.09	-76.9	-54.1	-37.1
	$\sigma_{s,c}$42	-44.17	-76.9	-53.7	-86.7
	$\sigma_{cls,Max}$42	-44.17	-76.9	-53.7	-6.6
	$\sigma_{cls,Med}$42	-44.17	-76.9	-53.7	-4.2
24 - 124	Ft. 41	-32.37	78.5	27.7	-26.9
	$\sigma_{s,c}$42	-33.45	78.4	29.7	-67.0
	$\sigma_{cls,Max}$42	-33.45	78.4	29.7	-5.1
	$\sigma_{cls,Med}$42	-33.45	78.4	29.7	-3.2
124	Ft. 44	-37.53	0.8	-11.9	-50.8
	$\sigma_{s,c}$42	-38.81	0.8	-12.0	-57.7
	$\sigma_{cls,Max}$42	-38.81	0.8	-12.0	-4.0
	$\sigma_{cls,Med}$42	-38.81	0.8	-12.0	-3.7
	Combinazioni Quasi Permanenti				
24	Ft. 45	-43.01	-76.0	-51.9	-37.6
	$\sigma_{s,c}$45	-43.01	-76.0	-51.9	-84.6
	$\sigma_{cls,Max}$45	-43.01	-76.0	-51.9	-6.5
	$\sigma_{cls,Med}$45	-43.01	-76.0	-51.9	-4.1
24 - 124	Ft. 45	-32.29	77.5	26.7	-27.2
	$\sigma_{s,c}$45	-32.29	77.5	26.7	-64.6
	$\sigma_{cls,Max}$45	-32.29	77.5	26.7	-4.9
	$\sigma_{cls,Med}$45	-32.29	77.5	26.7	-3.1
124	Ft. 45	-37.65	0.8	-12.6	-50.8
	$\sigma_{s,c}$45	-37.65	0.8	-12.6	-56.1
	$\sigma_{cls,Max}$45	-37.65	0.8	-12.6	-3.9

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
	$\sigma_{cls,Med}$45	-37.65	0.8	-12.6	-3.6

Pilastro: 25/125 / L 4.90[m] / Sezione 1 B 25 [cm]H 35 [cm]

Af: Sezione 1 / Posizione A

Staffe: ø 8/15.0 x 490.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
25	17	-43.49	-364.7	10.2	0.05
25 - 125	13	-32.87	360.6	-28.3	0.04
125	2	-58.81	-0.0	-8.6	0.03

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kN]	V_{Rd12} [kN]	S/R_{12} [kN]	$cotg(\theta)_{13}$	V_{d13} [kN]	V_{Rd13} [kN]	S/R_{13} [kN]	Staffe
0.13	5.03	1.00	1.49	71.04	0.02	1.00	0.45	47.44	0.01	ø 8/15.0

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
25	Ft. 37	-45.20	-88.9	-51.4	-38.6
	$\sigma_{s,c}$38	-48.10	-92.4	-55.7	-95.4
	$\sigma_{cls,Max}$38	-48.10	-92.4	-55.7	-7.3
	$\sigma_{cls,Med}$38	-48.10	-92.4	-55.7	-4.6
25 - 125	Ft. 40	-34.10	90.9	30.4	-26.7
	$\sigma_{s,c}$38	-37.39	92.4	41.0	-77.2
	$\sigma_{cls,Max}$38	-37.39	92.4	41.0	-6.0
	$\sigma_{cls,Med}$38	-37.39	92.4	41.0	-3.5
125	Ft. 40	-39.46	0.0	-6.9	-54.7
	$\sigma_{s,c}$38	-42.74	0.0	-7.4	-62.2
	$\sigma_{cls,Max}$38	-42.74	0.0	-7.4	-4.2
	$\sigma_{cls,Med}$38	-42.74	0.0	-7.4	-4.0
	Combinazioni Frequenti				
25	Ft. 41	-42.36	-83.5	-47.5	-36.3
	$\sigma_{s,c}$42	-43.46	-83.5	-47.1	-85.6
	$\sigma_{cls,Max}$42	-43.46	-83.5	-47.1	-6.5
	$\sigma_{cls,Med}$42	-43.46	-83.5	-47.1	-4.1
25 - 125	Ft. 41	-31.64	83.6	26.3	-25.3
	$\sigma_{s,c}$42	-32.74	83.7	28.3	-66.6
	$\sigma_{cls,Max}$42	-32.74	83.7	28.3	-5.1
	$\sigma_{cls,Med}$42	-32.74	83.7	28.3	-3.1
125	Ft. 44	-36.81	0.1	-9.4	-50.4
	$\sigma_{s,c}$42	-38.10	0.1	-9.4	-56.0
	$\sigma_{cls,Max}$42	-38.10	0.1	-9.4	-3.8
	$\sigma_{cls,Med}$42	-38.10	0.1	-9.4	-3.6
	Combinazioni Quasi Permanenti				
25	Ft. 45	-42.30	-82.2	-45.4	-36.8
	$\sigma_{s,c}$45	-42.30	-82.2	-45.4	-83.3
	$\sigma_{cls,Max}$45	-42.30	-82.2	-45.4	-6.4
	$\sigma_{cls,Med}$45	-42.30	-82.2	-45.4	-4.0
25 - 125	Ft. 45	-31.58	82.3	25.3	-25.6

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
	$\sigma_{s,c}$45	-31.58	82.3	25.3	-64.1
	$\sigma_{cls,Max}$45	-31.58	82.3	25.3	-4.9
	$\sigma_{cls,Med}$45	-31.58	82.3	25.3	-3.0
125	Ft. 45	-36.94	0.1	-10.0	-50.5
	$\sigma_{s,c}$45	-36.94	0.1	-10.0	-54.5
	$\sigma_{cls,Max}$45	-36.94	0.1	-10.0	-3.7
	$\sigma_{cls,Med}$45	-36.94	0.1	-10.0	-3.5

Pilastro: 27/127 / L 4.90[m] / Sezione 1 B 25 [cm]H 35 [cm]

Af: Sezione 1 / Posizione A

Staffe: ø 8/15.0 x 490.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
27	14	-50.28	-387.6	93.3	0.06
27 - 127	14	-39.56	372.5	-92.3	0.05
127	2	-66.11	-9.4	-4.4	0.04

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kN]	V_{Rd12} [kN]	S/R_{12} [kN]	$cotg(\theta)_{13}$	V_{d13} [kN]	V_{Rd13} [kN]	S/R_{13} [kN]	Staffe
0.13	5.03	1.00	1.57	71.04	0.02	1.00	0.51	47.44	0.01	ø 8/15.0

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
27	Ft. 37	-50.58	-155.9	-35.2	-37.9
	$\sigma_{s,c}$38	-53.46	-161.2	-39.2	-111.6
	$\sigma_{cls,Max}$38	-53.46	-161.2	-39.2	-8.6
	$\sigma_{cls,Med}$38	-53.46	-161.2	-39.2	-5.1
27 - 127	Ft. 40	-39.58	144.2	20.0	-27.4
	$\sigma_{s,c}$38	-42.74	147.3	30.6	-92.3
	$\sigma_{cls,Max}$38	-42.74	147.3	30.6	-7.1
	$\sigma_{cls,Med}$38	-42.74	147.3	30.6	-4.0
127	Ft. 40	-44.94	-7.2	-4.1	-61.8
	$\sigma_{s,c}$38	-48.10	-6.9	-4.3	-70.4
	$\sigma_{cls,Max}$38	-48.10	-6.9	-4.3	-4.8
	$\sigma_{cls,Med}$38	-48.10	-6.9	-4.3	-4.6
	Combinazioni Frequenti				
27	Ft. 41	-47.64	-147.1	-31.9	-35.9
	$\sigma_{s,c}$42	-48.64	-146.8	-31.8	-100.8
	$\sigma_{cls,Max}$42	-48.64	-146.8	-31.8	-7.7
	$\sigma_{cls,Med}$42	-48.64	-146.8	-31.8	-4.6
27 - 127	Ft. 41	-36.92	133.0	16.3	-26.2
	$\sigma_{s,c}$42	-37.93	133.1	18.6	-80.5
	$\sigma_{cls,Max}$42	-37.93	133.1	18.6	-6.2
	$\sigma_{cls,Med}$42	-37.93	133.1	18.6	-3.6
127	Ft. 44	-42.04	-7.0	-6.6	-57.2
	$\sigma_{s,c}$42	-43.28	-6.9	-6.6	-64.0
	$\sigma_{cls,Max}$42	-43.28	-6.9	-6.6	-4.4
	$\sigma_{cls,Med}$42	-43.28	-6.9	-6.6	-4.1

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
	Combinazioni Quasi Permanenti				
27	Ft. 45	-47.49	-144.6	-30.2	-36.5
	$\sigma_{s,c}$45	-47.49	-144.6	-30.2	-98.4
	$\sigma_{cls,Max}$45	-47.49	-144.6	-30.2	-7.5
	$\sigma_{cls,Med}$45	-47.49	-144.6	-30.2	-4.5
27 - 127	Ft. 45	-36.77	130.8	15.7	-26.5
	$\sigma_{s,c}$45	-36.77	130.8	15.7	-77.9
	$\sigma_{cls,Max}$45	-36.77	130.8	15.7	-6.0
	$\sigma_{cls,Med}$45	-36.77	130.8	15.7	-3.5
127	Ft. 45	-42.13	-6.9	-7.3	-57.2
	$\sigma_{s,c}$45	-42.13	-6.9	-7.3	-62.5
	$\sigma_{cls,Max}$45	-42.13	-6.9	-7.3	-4.3
	$\sigma_{cls,Med}$45	-42.13	-6.9	-7.3	-4.0

Pilastro: 29/129 / L 4.90[m] / Sezione 1 B 25 [cm]H 35 [cm]

Af: Sezione 1 / Posizione A

Staffe: ø 8/15.0 x 490.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
29	14	-54.23	-374.7	165.2	0.06
29 - 129	14	-43.51	377.6	-167.7	0.06
129	2	-68.80	3.3	-10.3	0.04

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kN]	V_{Rd12} [kN]	S/R_{12} [kN]	$cotg(\theta)_{13}$	V_{d13} [kN]	V_{Rd13} [kN]	S/R_{13} [kN]	Staffe
0.13	5.03	1.00	1.56	71.04	0.02	1.00	0.69	47.44	0.01	ø 8/15.0

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
29	Ft. 40	-53.62	-212.8	19.1	-35.7
	$\sigma_{s,c}$38	-55.71	-218.8	10.0	-118.9
	$\sigma_{cls,Max}$38	-55.71	-218.8	10.0	-9.0
	$\sigma_{cls,Med}$38	-55.71	-218.8	10.0	-5.3
29 - 129	Ft. 40	-42.90	215.2	-34.7	-16.9
	$\sigma_{s,c}$38	-44.99	223.1	-26.5	-107.7
	$\sigma_{cls,Max}$38	-44.99	223.1	-26.5	-8.5
	$\sigma_{cls,Med}$38	-44.99	223.1	-26.5	-4.3
129	Ft. 40	-48.26	1.2	-7.8	-66.8
	$\sigma_{s,c}$38	-50.35	2.2	-8.2	-73.5
	$\sigma_{cls,Max}$38	-50.35	2.2	-8.2	-5.0
	$\sigma_{cls,Med}$38	-50.35	2.2	-8.2	-4.8
	Combinazioni Frequenti				
29	Ft. 44	-51.25	-197.3	16.5	-35.5
	$\sigma_{s,c}$42	-52.07	-199.8	13.3	-111.1
	$\sigma_{cls,Max}$42	-52.07	-199.8	13.3	-8.5
	$\sigma_{cls,Med}$42	-52.07	-199.8	13.3	-4.9
29 - 129	Ft. 44	-40.53	197.9	-35.9	-16.3
	$\sigma_{s,c}$42	-41.36	201.2	-32.9	-100.0

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
	$\sigma_{cls,Max}$42	-41.36	201.2	-32.9	-7.9
	$\sigma_{cls,Med}$42	-41.36	201.2	-32.9	-3.9
129	Ft. 44	-45.89	0.3	-9.7	-63.2
	$\sigma_{s,c}$42	-46.71	0.7	-9.8	-68.4
	$\sigma_{cls,Max}$42	-46.71	0.7	-9.8	-4.7
	$\sigma_{cls,Med}$42	-46.71	0.7	-9.8	-4.4
	Combinazioni Quasi Permanenti				
29	Ft. 45	-51.33	-196.7	14.3	-36.1
	$\sigma_{s,c}$45	-51.33	-196.7	14.3	-109.7
	$\sigma_{cls,Max}$45	-51.33	-196.7	14.3	-8.4
	$\sigma_{cls,Med}$45	-51.33	-196.7	14.3	-4.9
29 - 129	Ft. 45	-40.61	197.3	-34.9	-16.7
	$\sigma_{s,c}$45	-40.61	197.3	-34.9	-98.7
	$\sigma_{cls,Max}$45	-40.61	197.3	-34.9	-7.8
	$\sigma_{cls,Med}$45	-40.61	197.3	-34.9	-3.8
129	Ft. 45	-45.97	0.3	-10.3	-63.2
	$\sigma_{s,c}$45	-45.97	0.3	-10.3	-67.4
	$\sigma_{cls,Max}$45	-45.97	0.3	-10.3	-4.6
	$\sigma_{cls,Med}$45	-45.97	0.3	-10.3	-4.4

- En.Ex.Sys. WinStrand
- Verifiche pilastri

AMPLIAMENTO CIVICO CIMITERO MASSA FERMANA – CORPO C – VERIFICA NODI 1 LOTTO

d:\Andrea\Desktop\Ampliamento cimitero Massa fermana 28-05-2018\CAPPPELLINE _FINALE-1LOTTO.dt - 18 August 2018 - WinStrand (Service Pack 051)

Verifiche resistenza dei nodi

Per le verifiche di fessurazione diagonale usa le formule TU 2018 7.4.11-7.4.12

Nodo	Pilastro di riferimento	Ingombro nodo		Materiali		Staffe	Verifica compressione diagonale																		Verifica fessurazione diagonale													Note
		B [cm]	H [cm]	f_{ck}	Acciaio		$\nu_{d,x}$	$\alpha_{j,x}$	η_x	$b_{j,x}$ [cm]	$h_{j,x}$ [cm]	$V_{jbd,Edx}$ [kN]	$V_{jbd,Rdx}$ [kN]	$\nu_{d,y}$	$\alpha_{j,y}$	η_y	$b_{j,y}$ [cm]	$h_{j,y}$ [cm]	$V_{jbd,Edy}$ [kN]	$V_{jbd,Rdy}$ [kN]	ν	b_x [cm]	h_x [cm]	$As_{1,x}$ [cm²]	$As_{2,x}$ [cm²]	$V_{jbd,Edx}$ [kN]	$V_{jbd,Rdx}$ [kN]	b_y [cm]	h_y [cm]	$As_{1,y}$ [cm²]	$As_{2,y}$ [cm²]	$V_{jbd,Edy}$ [kN]	$V_{jbd,Rdy}$ [kN]	
3	3 103	25	35	C25/30	B 450 C	ø 8/7.5	0.039	0.48	0.432	47	15	410.46	211.27	0.035	0.48	0.432	42	25	618.66	211.15	0.00000	47	38	4.92		211.83	236.03	42	38	4.92		211.83	236.03	
7	7 107	25	35	C25/30	B 450 C	ø 10/4.5	0.028	0.48	0.432	47	15	416.12	127.10	0.028	0.60	0.540	42	25	785.14	522.19	0.00000	47	38	2.95		127.10	553.19	42	38	5.35		523.56	553.19	
11	11 111	25	35	C25/30	B 450 C	ø 10/4.5	0.036	0.48	0.432	47	15	411.79	126.66	0.033	0.60	0.540	42	25	781.79	504.66	0.00000	47	38	2.95		127.10	553.19	42	38	4.92		505.09	553.19	
103	3 103	25	35	C25/30	B 450 C	ø 8/5.0	0.000	0.48	0.432	35	15	317.09	89.44	0.000	0.48	0.432	25	25	379.53	86.49	0.04258	35	11	2.08		86.39	118.01	25	30	2.01		83.54	236.03	
107	7 107	25	35	C25/30	B 450 C	ø 8/5.0	0.000	0.48	0.432	35	15	317.09	89.39	0.000	0.60	0.540	25	25	474.41	213.57	0.03568	35	11	2.08		86.84	118.01	25	30	2.18		207.48	236.03	
111	11 111	25	35	C25/30	B 450 C	ø 8/5.0	0.000	0.48	0.432	35	15	317.09	89.39	0.000	0.60	0.540	25	25	474.41	206.04	0.03952	35	11	2.08		86.56	118.01	25	30	2.01		199.52	236.03	

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

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- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

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- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»".*
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche".*
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche".*
- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi".*
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche".*
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche".*
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche".*

- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche setti in c.a.

Modalità di verifica

Le pareti in c.a. vengono verificate come setti/diaframmi o nuclei.

La verifica dei setti/diaframmi viene condotta a pressoflessione retta e a taglio. Viene calcolato lo sforzo normale medio agente sul setto e il momento ad esso associato. Quando previsto, sono introdotti ferri verticali aggiuntivi da disporsi sulle estremità del setto stesso.

La verifica dei nuclei viene condotta a pressoflessione deviata sulla sezione complessiva e a taglio sulle singole pareti costituenti il nucleo.

Sezioni Impiegate:

Sez. Num.	Info	Dimensioni	Criterio	Calcestruzzo	γ_M	F.C.	f_{ck} [kg/cm²]	f_{cd} [kg/cm²]	σ_{RARE} [kg/cm²]	σ_{FREQ} [kg/cm²]	σ_{QP} [kg/cm²]	Acciaio	γ_M	F.C.	f_{yk} [kg/cm²]	f_{yd} [kg/cm²]	σ_{yRARE} [kg/cm²]	σ_{yFREQ} [kg/cm²]	σ_{yQP} [kg/cm²]	Coprif [cm
1	Muro SETTO S=20	s 20 [cm]	Verset	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0	4500.0	3.00

Taglio di progetto pari al taglio di calcolo

Attenzione non è stato controllato che il valore dell'azione assiale ridotta $N_E > 0.4\ N_R$

Verifica a taglio-compressione del calcestruzzo dell'anima nelle zone dissipative: fattore riduttivo 0.40

Verifiche Setti:

Setto : 1 37 39 5 / Sezione 1

B = 215.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	29	-90.21	0.0	-9300.5	0.05
Sommità	13	63.67	0.0	-2903.8	0.09

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-42.26	0.0	-4172.3	-4.6
$\sigma_{Cls,Med}$	45	-42.26	0.0	-4172.3	-2.3
$\sigma_{s,t}$	38	-42.58	0.0	-4423.5	93.0
$\sigma_{s,c}$	38	-42.58	0.0	-4423.5	-70.5
Sommita					
$\sigma_{Cls,Max}$	45	-1.41	0.0	-3036.4	-3.7
$\sigma_{Cls,Med}$	45	-1.41	0.0	-3036.4	-1.9
$\sigma_{s,t}$	38	-1.73	0.0	-3281.6	193.7
$\sigma_{s,c}$	38	-1.73	0.0	-3281.6	-56.3

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
1 39	31	34.51	1.00	34.51	-102.03	-9508.0	1351.82	375.28	0.00	0.09

Setto : 2 38 37 1 / Sezione 1

B = 275.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	13	-103.85	0.0	-29524.5	0.12
Sommità	13	-51.60	0.0	-2521.2	0.01

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-91.89	0.0	-5318.5	-3.5
$\sigma_{Cls,Med}$	45	-91.89	0.0	-5318.5	-1.7
$\sigma_{s,t}$	38	-98.95	0.0	-6020.0	9.2
$\sigma_{s,c}$	38	-98.95	0.0	-6020.0	-57.0
Sommita					
$\sigma_{Cls,Max}$	45	-39.64	0.0	-927.6	-1.0
$\sigma_{Cls,Med}$	45	-39.64	0.0	-927.6	-0.7
$\sigma_{s,t}$	37	-43.50	0.0	-855.2	-6.3
$\sigma_{s,c}$	37	-43.50	0.0	-855.2	-15.2

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
2 37	13	84.33	1.00	84.33	-103.85	-29524.5	1734.41	481.49	0.00	0.18

Setto : 5 39 41 9 / Sezione 1

B = 225.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	18	-92.63	0.0	9836.4	0.04
Sommità	34	64.32	0.0	2603.1	0.08

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-44.20	0.0	4083.5	-4.0
$\sigma_{Cls,Med}$	45	-44.20	0.0	4083.5	-2.0
$\sigma_{s,t}$	38	-44.55	0.0	4338.8	68.9
$\sigma_{s,c}$	38	-44.55	0.0	4338.8	-61.9
Sommita					
$\sigma_{Cls,Max}$	45	-1.45	0.0	2748.4	-3.1
$\sigma_{Cls,Med}$	45	-1.45	0.0	2748.4	-1.5
$\sigma_{s,t}$	38	-1.80	0.0	2995.3	156.8
$\sigma_{s,c}$	38	-1.80	0.0	2995.3	-46.8

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
5 41	18	-35.40	1.00	-35.40	-92.63	9836.4	1415.58	392.98	0.00	0.09

Setto : 6 40 39 5 / Sezione 1

B = 275.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	26	-41.33	0.0	7004.1	0.02
Sommità	26	10.92	0.0	5142.7	0.04

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-58.61	0.0	107.4	-1.0
$\sigma_{Cls,Med}$	45	-58.61	0.0	107.4	-1.0
$\sigma_{s,t}$	37	-61.98	0.0	137.5	-14.7
$\sigma_{s,c}$	38	-66.67	0.0	26.3	-16.7
Sommita					
$\sigma_{Cls,Max}$	45	-6.36	0.0	3444.0	-2.5
$\sigma_{Cls,Med}$	45	-6.36	0.0	3444.0	-1.3
$\sigma_{s,t}$	37	-9.73	0.0	3912.6	108.1
$\sigma_{s,c}$	38	-14.42	0.0	4326.5	-44.8

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
6 39	26	-31.95	1.00	-31.95	-41.33	7004.1	1734.41	481.49	0.00	0.07

Setto : 10 42 41 9 / Sezione 1

B = 275.00 H = 380.00 [cm]

Armature su ogni faccia: Verticali : ø 12 20' [cm], Orizzontali : ø 8 20' [cm], Integrative Sx: ø 12 20' [cm], Dx: ø 12 20' [cm]

Sezione	Comb.	N_{Ed} [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
Base	34	-101.22	0.0	-30752.3	0.13
Sommità	34	-48.97	0.0	-3092.4	0.01

S.L.E.	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
Base					
$\sigma_{Cls,Max}$	45	-88.53	0.0	-6532.0	-4.0
$\sigma_{Cls,Med}$	45	-88.53	0.0	-6532.0	-2.0
$\sigma_{s,t}$	38	-95.74	0.0	-7229.0	25.2
$\sigma_{s,c}$	38	-95.74	0.0	-7229.0	-65.9
Sommita					
$\sigma_{Cls,Max}$	45	-36.28	0.0	-1694.5	-1.2
$\sigma_{Cls,Med}$	45	-36.28	0.0	-1694.5	-0.6
$\sigma_{s,t}$	37	-40.20	0.0	-1613.0	-1.6
$\sigma_{s,c}$	37	-40.20	0.0	-1613.0	-18.4

Verifiche a Taglio

Nodi	Comb.	V_d [kN]	α	V_{Ed} [kN]	N_{Ed} [kN]	M_{Ed} [kN]	V_{Rcd} [kN]	V_{Rsd} [kN]	$V_{Rd,scorrimento}$ [kN]	V_S/V_R
10 41	34	89.06	1.00	89.06	-101.22	-30752.3	1734.41	481.49	0.00	0.18

- En.Ex.Sys. WinStrand
- Verifiche setti in c.a.

En.Ex.Sys. WinStrand

Structural Analisys & Design

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  -
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- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
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- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.
- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.
- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche travi

Modalità di verifica

Le travi vengono progettate-verificate a flessione retta e taglio nel piano longitudinale della trave sulla base dell'inviluppo delle sollecitazioni.

Viene comunque sempre predisposta l'armatura minima mentre gli sforzi di taglio vengono integralmente assorbiti dalle staffe.

Le operazioni di progetto-verifica vengono condotte, per ogni asta, in tre diverse sezioni e precisamente in corrispondenza dei fili esterni dei pilastri e della sezione in campata nella quale viene riscontrato il massimo momento positivo (negativo).

I momenti si intendono postivi se tendono le fibre di intradosso (inferiori).

Per quanto concerne il progetto e la verifica delle travi a taglio esse vengono condotte nel modo seguente:

- Si controlla se la trave necessita o meno di armatura aggiuntiva a taglio:
  1. Se non occorre armatura aggiuntiva a taglio si procede a disporre la staffatura minima di regolamento e la progettazione ha termine.
  2. Se occorre armatura aggiuntiva a taglio la staffatuta viene progettata andando a suddividere la trave, a seconda del caso, in uno, tre o cinque conci:
     - due tronchi in prossimità degli appoggi di lunghezza pari all'altezza della sezione;
     - due altri (eventuali) tronchi dall'ascissa precedente a quella in cui il taglio può essere assorbito con la sola staffatura minima da regolamento
     - un restante (eventuale) concio di chiusura centrale.
- In ogni caso l'armatura a taglio si intende simmetrica rispetto alla mezzeria della trave e viene progettata considerando, rispetto alla mezzeria, la zona della trave più sollecitata.

Per quanto concerne le verifiche a taglio esse vengono condotte suddividendo la trave in cinque conci:

due tronchi in prossimità degli appoggi di lunghezza pari all'altezza della sezione; due altri (eventuali) tronchi dall'ascissa precedente a quella in cui il taglio può essere assorbito con la sola staffatura minima da regolamento; il restante (eventuale) concio di chiusura centrale.

L'armatura a taglio si intende simmetrica rispetto alla mezzeria della trave e viene progettata considerando, rispetto alla mezzeria, la zona della trave più sollecitata.

Simbologia utilizzata:

Af Es.
Area di ferro all'estradosso
Af In.
Area di ferro all'intradosso
Sigb.Es.
Tensione del calcestruzzo estradosso
Sigb. In.
Tensione del calcestruzzo intradosso
Sigf. Es.
Tensione dell'acciaio estradosso
Sigf. In.
Tensione dell'acciaio intradosso

Sezioni Impiegate: Trave

Sezioni Nuove

Sez. Num.	Info	Dimensioni	Criterio	Calcestruzzo	γ_M	F.C.	f_{ck} [kg/cm²]	f_{cd} [kg/cm²]	σ_{RARE} [kg/cm²]	σ_{FREQ} [kg/cm²]	σ_{QP} [kg/cm²]	Acciaio	γ_M	F.C.	f_{yk} [kg/cm²]	f_{yd} [kg/cm²]	σ_{yRARE} [kg/cm²]	σ_{yFREQ} [kg/cm²]	σ_{yQP} [kg/cm²]	Cop. Es [cm]	Cop. In [cm]	cotg θ_I	cotg θ
1	Rett. 25X21	B 25 [cm] H 21 [cm]	Vertrav	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0	4500.0	3.50	3.50	1.00	1.00
2	Rett. 25X40	B 25 [cm] H 40 [cm]	Vertrav	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0	4500.0	3.50	3.50	1.00	1.00
4	Rett. 60X50	B 60 [cm] H 50 [cm]	Vertrav	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0	4500.0	4.50	4.50	1.00	1.00

Verifica a fessurazione indiretta

Fattore di sovraresistenza Travi $\gamma_{R,d\ (Nuovo)}$=0.00 $\gamma_{R,d\ (Esistente)}$=0.00
Fattore di sovraresistenza delle azioni sulle Fondazioni $\gamma_{R,d\ (Nuovo)}$=0.00 $\gamma_{R,d\ (Esistente)}$=0.00

Verifiche Travate :

Travata: ***Travata 1 Nodi 2 3***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
2	0.12	4.92	6.81			1970.5	8631.6	0.11	-1123.6	-11475.6	0.11					
				SLE Rare		490.1			0.0			0.0	4.1	156.3	17.1	
				SLE Freq.		462.9			0.0			0.0	3.8	147.6	16.2	OK

				SLE Q.P.	440.3			0.0		0.0	3.7	140.4	15.4	OK
Camp.	1.20	7.70	7.70	2475.0	891.0	826.4	12835.7	0.12	-1318.8	-12835.7	0.12			
				SLE Rare	0.0				-630.0		4.3	0.0	27.7	203.9	
				SLE Freq.	0.0				-630.0		4.3	0.0	27.7	203.9	OK
				SLE Q.P.	0.0				-630.0		4.3	0.0	27.7	203.9	OK
3	2.28	4.92	6.81		1554.1	8631.6	0.11	-27.7	-11475.6	0.11					
				SLE Rare	999.1				0.0		0.0	8.3	318.7	34.9	
				SLE Freq.	939.0				0.0		0.0	7.8	299.5	32.8	OK
				SLE Q.P.	912.3				0.0		0.0	7.6	291.0	31.9	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 2 3 Sez. 4 Rett. 60x50 [cm] 60X50								
0.12	2.28	2.15	1.00	29.90	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 1 Nodi 2 1***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
2	0.13	4.92	6.81			932.1	8631.6	0.11	-47.5	-11475.6	0.11					
				SLE Rare		627.5			0.0		0.0	5.2	200.2	21.9		
				SLE Freq.		634.8			0.0		0.0	5.3	202.5	22.2	OK	
				SLE Q.P.		634.0			0.0		0.0	5.3	202.2	22.1	OK	
Camp.	1.38	7.70	7.70	2475.0	1169.8	0.0	12835.7	0.12	-1169.8	-12835.7	0.12					
				SLE Rare		0.0			-827.1		5.6	0.0	36.4	267.7		
				SLE Freq.		0.0			-827.1		5.6	0.0	36.4	267.7	OK	
				SLE Q.P.		0.0			-827.1		5.6	0.0	36.4	267.7	OK	
1	2.63	4.92	7.64			929.0	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		652.7			0.0		0.0	5.4	208.3	25.1		
				SLE Freq.		659.1			0.0		0.0	5.4	210.3	25.3	OK	
				SLE Q.P.		659.1			0.0		0.0	5.4	210.3	25.3	OK	

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 2 1 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.63	2.50	1.00	31.13	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 2 Nodi 6 7***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
6	0.13	2.95	4.09			1114.8	5574.8	0.09	-9.8	-7263.9	0.09					
				SLE Rare		732.9			0.0		0.0	7.8	383.0	17.3		
				SLE Freq.		686.4			0.0		0.0	7.3	358.7	16.2	OK	
				SLE Q.P.		657.8			0.0		0.0	7.0	343.7	15.5	OK	
Camp.	1.20	4.62	4.62	2775.0	999.0	100.8	8130.8	0.10	-999.0	-8130.8	0.10					
				SLE Rare		0.0			-702.0		6.1	0.0	28.2	371.9		
				SLE Freq.		0.0			-702.0		6.1	0.0	28.2	371.9	OK	
				SLE Q.P.		0.0			-702.0		6.1	0.0	28.2	371.9	OK	
7	2.28	2.95	4.59			1341.0	5592.7	0.09	0.0	-8028.6	0.09					
				SLE Rare		945.1			0.0		0.0	10.1	494.0	24.7		
				SLE Freq.		883.0			0.0		0.0	9.4	461.5	23.1	OK	
				SLE Q.P.		850.9			0.0		0.0	9.1	444.8	22.2	OK	

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 6 7 Sez. 4 Rett. 60x50 [cm] 60X50								

0.13	2.28	2.15	1.00		31.17	100.24	843.61	156.13	ø 8 4br. 20.0'									

Travata: ***Travata 2 Nodi 5 6***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
5	0.13	4.92	7.64			434.4	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		331.6			0.0			0.0	2.7	105.8	12.8	
				SLE Freq.		334.2			0.0			0.0	2.8	106.6	12.9	OK
				SLE Q.P.		332.8			0.0			0.0	2.7	106.2	12.8	OK
Camp.	1.38	7.70	7.70	975.0	460.8	0.0	12835.7	0.12	-493.5	-12835.7	0.12					
				SLE Rare		0.0			-375.1			2.6	0.0	16.5	121.4	
				SLE Freq.		0.0			-367.6			2.5	0.0	16.2	119.0	OK
				SLE Q.P.		0.0			-366.2			2.5	0.0	16.1	118.5	OK
6	2.63	4.92	6.81			286.1	8631.6	0.11	-80.0	-11475.6	0.11					
				SLE Rare		172.9			0.0			0.0	1.4	55.1	6.0	
				SLE Freq.		183.2			0.0			0.0	1.5	58.4	6.4	OK
				SLE Q.P.		183.0			0.0			0.0	1.5	58.4	6.4	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 5 6 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.63	2.50	1.00	13.12	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 3 Nodi 10 11***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
10	0.13	2.95	4.09			1895.7	5574.8	0.09	-1233.5	-7263.9	0.09					
				SLE Rare		410.3			0.0			0.0	4.4	214.4	9.7	
				SLE Freq.		382.2			0.0			0.0	4.1	199.7	9.0	OK
				SLE Q.P.		359.2			0.0			0.0	3.8	187.7	8.5	OK
Camp.	1.20	4.62	4.62	2775.0	999.0	712.2	8130.8	0.10	-1455.6	-8130.8	0.10					
				SLE Rare		0.0			-702.0			6.1	0.0	28.2	371.9	
				SLE Freq.		0.0			-702.0			6.1	0.0	28.2	371.9	OK
				SLE Q.P.		0.0			-702.0			6.1	0.0	28.2	371.9	OK
11	2.28	2.95	4.09			1657.0	5574.8	0.09	-29.8	-7263.9	0.09					
				SLE Rare		1080.5			0.0			0.0	11.5	564.7	25.5	
				SLE Freq.		1020.0			0.0			0.0	10.9	533.0	24.1	OK
				SLE Q.P.		992.9			0.0			0.0	10.6	518.9	23.5	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 10 11 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.28	2.15	1.00	34.26	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 3 Nodi 9 10***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
9	0.13	4.92	7.64			2401.4	8642.1	0.11	0.0	-12736.4	0.12					
				SLE Rare		1634.4			0.0			0.0	13.5	521.5	62.8	
				SLE Freq.		1640.8			0.0			0.0	13.5	523.6	63.1	OK
				SLE Q.P.		1640.8			0.0			0.0	13.5	523.6	63.1	OK
Camp.	1.38	7.70	7.70	5850.0	2765.0	0.0	12835.7	0.12	-2765.0	-12835.7	0.12					
				SLE Rare		0.0			-1890.6			12.9	0.0	83.2	611.8	

				SLE Freq.	0.0			-1890.6		12.9	0.0	83.2	611.8	OK
				SLE Q.P.	0.0			-1890.6		12.9	0.0	83.2	611.8	OK
10	2.63	4.92	7.64		2334.5	8642.1	0.11	0.0	-12736.4	0.12				
				SLE Rare	1585.1			0.0		0.0	13.1	505.8	60.9	
				SLE Freq.	1592.6			0.0		0.0	13.1	508.2	61.2	OK
				SLE Q.P.	1591.8			0.0		0.0	13.1	507.9	61.2	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Red} [kN]	V_{Rd} [kN]	Staffe
Trave 9 10 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.63	2.50	1.00	73.46	102.71	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 4 Nodi 1 5 9***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
1	0.13	4.92	6.81			628.6	8631.6	0.11	-29.9	-11475.6	0.11					
				SLE Rare		438.8			0.0			0.0	3.6	140.0	15.3	
				SLE Freq.		436.3			0.0			0.0	3.6	139.2	15.2	OK
				SLE Q.P.		435.6			0.0			0.0	3.6	138.9	15.2	OK
Camp.	1.08	11.35	9.13	2250.0	650.0	0.0	18338.5	0.14	-650.0	-15010.1	0.13					
				SLE Rare		0.0			-462.3			2.8	0.0	19.4	126.9	
				SLE Freq.		0.0			-462.3			2.8	0.0	19.4	126.9	OK
				SLE Q.P.		0.0			-462.3			2.8	0.0	19.4	126.9	OK
5	2.03	15.39	15.39			372.4	24374.1	0.15	-30.2	-24374.1	0.15					
				SLE Rare		254.8			0.0			0.0	1.2	42.3	10.2	
				SLE Freq.		262.2			0.0			0.0	1.3	43.5	10.5	OK
				SLE Q.P.		262.2			0.0			0.0	1.3	43.5	10.5	OK
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
5	0.13	15.39	15.39			461.1	24374.1	0.15	-16.7	-24374.1	0.15					
				SLE Rare		317.5			0.0			0.0	1.5	52.7	12.7	
				SLE Freq.		324.5			0.0			0.0	1.6	53.8	13.0	OK
				SLE Q.P.		324.5			0.0			0.0	1.6	53.8	13.0	OK
Camp.	1.13	10.29	8.38	2250.0	711.9	0.0	16747.5	0.14	-711.9	-13870.8	0.13					
				SLE Rare		0.0			-506.3			3.2	0.0	21.5	151.1	
				SLE Freq.		0.0			-506.3			3.2	0.0	21.5	151.1	OK
				SLE Q.P.		0.0			-506.3			3.2	0.0	21.5	151.1	OK
9	2.13	4.92	6.81			642.5	8631.6	0.11	-22.9	-11475.6	0.11					
				SLE Rare		456.5			0.0			0.0	3.8	145.6	15.9	
				SLE Freq.		454.2			0.0			0.0	3.8	144.9	15.9	OK
				SLE Q.P.		453.6			0.0			0.0	3.8	144.7	15.8	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Red} [kN]	V_{Rd} [kN]	Staffe
Trave 1 5 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.03	1.90	1.00	22.74	100.24	843.61	156.13	ø 8 4br. 20.0'
Trave 5 9 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.13	2.00	1.00	23.47	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 5 Nodi 2 6 10***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
2	0.13	4.92	6.81			338.0	8631.6	0.11	-552.8	-11475.6	0.11					
				SLE Rare		0.0			-73.0			0.5	0.0	2.1	23.5	
				SLE Freq.		0.0			-63.2			0.5	0.0	1.8	20.3	OK
				SLE Q.P.		0.0			-58.7			0.4	0.0	1.7	18.9	OK
Camp.	1.08	11.35	9.13	975.0	281.7	0.0	18338.5	0.14	-662.1	-15010.1	0.13					
				SLE Rare		0.0			-416.0			2.6	0.0	17.5	114.2	

				SLE Freq.		0.0			-406.8		2.5	0.0	17.1	111.7	OK
				SLE Q.P.		0.0			-401.3		2.5	0.0	16.9	110.2	OK
6	2.03	15.39	15.39			38.1	24374.1	0.15	-320.6	-24374.1	0.15				
				SLE Rare		0.0			-81.2		0.4	0.0	3.2	13.5	
				SLE Freq.		0.0			-72.1		0.3	0.0	2.9	12.0	OK
				SLE Q.P.		0.0			-65.6		0.3	0.0	2.6	10.9	OK
Trave Sez. 4 Rett. 60x50 [cm] 60X50															
6	0.13	15.39	15.39			35.7	24374.1	0.15	-308.5	-24374.1	0.15				
				SLE Rare		0.0			-73.9		0.4	0.0	3.0	12.3	
				SLE Freq.		0.0			-64.8		0.3	0.0	2.6	10.8	OK
				SLE Q.P.		0.0			-58.5		0.3	0.0	2.3	9.7	OK
Camp.	1.13	10.29	8.38	975.0	308.5	0.0	16747.5	0.14	-683.5	-13870.8	0.13				
				SLE Rare		0.0			-457.5		2.9	0.0	19.4	136.5	
				SLE Freq.		0.0			-448.3		2.9	0.0	19.0	133.8	OK
				SLE Q.P.		0.0			-442.8		2.8	0.0	18.8	132.1	OK
10	2.13	4.92	6.81			292.5	8631.6	0.11	-552.3	-11475.6	0.11				
				SLE Rare		0.0			-90.4		0.7	0.0	2.6	29.1	
				SLE Freq.		0.0			-80.8		0.6	0.0	2.4	26.0	OK
				SLE Q.P.		0.0			-76.2		0.6	0.0	2.2	24.5	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Red} [kN]	V_{Rd} [kN]	Staffe
Trave 2 6 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.03	1.90	1.00	9.37	100.24	843.61	156.13	ø 8 4br. 20.0'
Trave 6 10 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.13	2.00	1.00	9.93	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 6 Nodi 3 7***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
3	0.13	4.92	6.81			465.2	8631.6	0.11	-966.7	-11475.6	0.11					
				SLE Rare		0.0			-159.6		1.2	0.0	4.6	51.4		
				SLE Freq.		0.0			-137.9		1.0	0.0	4.0	44.4	OK	
				SLE Q.P.		0.0			-133.6		1.0	0.0	3.9	43.0	OK	
Camp.	1.08	7.70	7.70	1725.0	498.4	0.0	12835.7	0.12	-1285.4	-12835.7	0.12					
				SLE Rare		0.0			-894.1		6.1	0.0	39.3	289.4		
				SLE Freq.		0.0			-859.9		5.8	0.0	37.8	278.3	OK	
				SLE Q.P.		0.0			-853.2		5.8	0.0	37.5	276.1	OK	
7	2.03	5.35	6.81			0.0	9281.4	0.11	-930.9	-11480.7	0.11					
				SLE Rare		0.0			-498.3		3.6	0.0	15.6	160.4		
				SLE Freq.		0.0			-453.6		3.3	0.0	14.2	146.1	OK	
				SLE Q.P.		0.0			-444.9		3.3	0.0	14.0	143.3	OK	

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Red} [kN]	V_{Rd} [kN]	Staffe
Trave 3 7 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.03	1.90	1.00	18.83	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 6 Nodi 7 11***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 4 Rett. 60x50 [cm] 60X50																
7	0.13	5.35	6.81			0.0	9281.4	0.11	-890.1	-11480.7	0.11					
				SLE Rare		0.0			-454.9		3.3	0.0	14.3	146.5		
				SLE Freq.		0.0			-411.2		3.0	0.0	12.9	132.4	OK	
				SLE Q.P.		0.0			-402.8		2.9	0.0	12.6	129.7	OK	
Camp.	1.13	7.70	7.70	1725.0	545.8	0.0	12835.7	0.12	-1265.9	-12835.7	0.12					
				SLE Rare		0.0			-910.2		6.2	0.0	40.0	294.6		

				SLE Freq.	0.0			-876.2		6.0	0.0	38.5	283.6	OK
				SLE Q.P.	0.0			-869.5		5.9	0.0	38.3	281.4	OK
11	2.13	4.92	6.81		471.0	8631.6	0.11	-896.0	-11475.6	0.11				
				SLE Rare	0.0			-119.1		0.9	0.0	3.5	38.3	
				SLE Freq.	0.0			-97.1		0.7	0.0	2.8	31.3	OK
				SLE Q.P.	0.0			-92.8		0.7	0.0	2.7	29.9	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 7 11 Sez. 4 Rett. 60x50 [cm] 60X50								
0.13	2.13	2.00	1.00	19.60	100.24	843.61	156.13	ø 8 4br. 20.0'

Travata: ***Travata 101 Nodi 102 103***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
102	0.05	1.46	1.58			368.5	987.8	0.22	-19.7	-1042.0	0.23					
				SLE Rare		238.7			0.0			0.0	29.8	530.2	22.0	
				SLE Freq.		193.7			0.0			0.0	24.2	430.2	17.8	OK
				SLE Q.P.		182.2			0.0			0.0	22.7	404.7	16.8	OK
Camp.	1.17	3.08	3.08	788.6	303.6	0.0	1735.7	0.29	-301.5	-1735.7	0.29					
				SLE Rare		0.0			-207.5			18.8	0.0	41.3	488.7	
				SLE Freq.		0.0			-169.3			15.4	0.0	33.7	398.9	OK
				SLE Q.P.		0.0			-159.8			14.5	0.0	31.8	376.4	OK
103	2.29	2.08	1.95			237.7	1278.7	0.25	-7.9	-1223.8	0.25					
				SLE Rare		165.3			0.0			0.0	17.7	377.2	5.3	
				SLE Freq.		136.1			0.0			0.0	14.6	310.6	4.4	OK
				SLE Q.P.		129.0			0.0			0.0	13.8	294.3	4.1	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 102 103 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.24	2.19	1.00	9.50	20.68	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 102 Nodi 106 107***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
106	0.05	1.46	1.77			683.4	992.0	0.23	0.0	-1130.8	0.23					
				SLE Rare		465.5			0.0			0.0	58.2	1033.1	47.2	
				SLE Freq.		370.1			0.0			0.0	46.3	821.4	37.5	OK
				SLE Q.P.		346.2			0.0			0.0	43.3	768.3	35.1	OK
Camp.	1.17	3.08	3.08	1441.8	554.8	0.0	1735.7	0.29	-551.0	-1735.7	0.29					
				SLE Rare		0.0			-373.8			33.9	0.0	74.4	880.4	
				SLE Freq.		0.0			-295.7			26.8	0.0	58.9	696.5	OK
				SLE Q.P.		0.0			-276.2			25.0	0.0	55.0	650.6	OK
107	2.29	2.08	2.19			412.6	1280.7	0.26	0.0	-1331.9	0.26					
				SLE Rare		278.9			0.0			0.0	29.9	636.5	9.8	
				SLE Freq.		218.4			0.0			0.0	23.4	498.6	7.7	OK
				SLE Q.P.		203.3			0.0			0.0	21.8	464.0	7.1	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 106 107 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.24	2.19	1.00	17.65	21.49	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 109 Nodi 110 111***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
110	0.05	1.46	1.58			359.6	987.9	0.22	-34.1	-1041.8	0.23					
				SLE Rare		229.6			0.0			0.0	28.7	510.1	21.1	
				SLE Freq.		182.5			0.0			0.0	22.8	405.4	16.8	OK
				SLE Q.P.		170.5			0.0			0.0	21.3	378.7	15.7	OK
Camp.	1.17	3.08	3.08	817.9	314.7	0.0	1735.7	0.29	-312.6	-1735.7	0.29					
				SLE Rare		0.0			-214.8			19.5	0.0	42.8	506.0	
				SLE Freq.		0.0			-174.9			15.9	0.0	34.8	412.0	OK
				SLE Q.P.		0.0			-164.9			15.0	0.0	32.8	388.5	OK
111	2.29	2.08	1.95			268.4	1278.1	0.25	-4.2	-1223.6	0.25					
				SLE Rare		185.7			0.0			0.0	19.9	423.8	5.9	
				SLE Freq.		155.1			0.0			0.0	16.7	353.9	4.9	OK
				SLE Q.P.		147.6			0.0			0.0	15.8	336.7	4.7	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 110 111 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.24	2.19	1.00	9.63	20.68	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 110 Nodi 102 106***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
102	0.05	3.08	3.08			1105.5	1735.7	0.29	-979.9	-1735.7	0.29					
				SLE Rare		65.7			0.0			0.0	6.0	154.8	13.1	
				SLE Freq.		63.3			0.0			0.0	5.7	149.0	12.6	OK
				SLE Q.P.		62.7			0.0			0.0	5.7	147.7	12.5	OK
Camp.	1.08	3.08	3.08	170.6	49.3	68.9	1735.7	0.29	-111.3	-1735.7	0.29					
				SLE Rare		0.0			-37.9			3.4	0.0	7.5	89.3	
				SLE Freq.		0.0			-37.9			3.4	0.0	7.5	89.3	OK
				SLE Q.P.		0.0			-37.9			3.4	0.0	7.5	89.3	OK
106	2.10	3.08	3.08			1050.5	1735.7	0.29	-991.7	-1735.7	0.29					
				SLE Rare		27.8			0.0			0.0	2.5	65.5	5.5	
				SLE Freq.		29.4			0.0			0.0	2.7	69.4	5.9	OK
				SLE Q.P.		29.4			0.0			0.0	2.7	69.4	5.9	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 102 106 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.10	2.05	1.00	11.58	25.83	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 110 Nodi 106 110***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 1 Rett. 25x21 [cm] 25X21																
106	0.05	3.08	3.08			1007.3	1735.7	0.29	-952.8	-1735.7	0.29					
				SLE Rare		25.8			0.0			0.0	2.3	60.8	5.1	
				SLE Freq.		27.3			0.0			0.0	2.5	64.3	5.4	OK
				SLE Q.P.		27.3			0.0			0.0	2.5	64.3	5.4	OK
Camp.	1.13	3.08	3.08	170.6	54.0	60.1	1735.7	0.29	-104.1	-1735.7	0.29					
				SLE Rare		0.0			-41.5			3.8	0.0	8.3	97.8	
				SLE Freq.		0.0			-41.5			3.8	0.0	8.3	97.8	OK
				SLE Q.P.		0.0			-41.5			3.8	0.0	8.3	97.8	OK
110	2.20	3.08	3.08			1075.5	1735.7	0.29	-923.1	-1735.7	0.29					
				SLE Rare		78.8			0.0			0.0	7.1	185.7	15.7	

							SLE Freq.	76.6		0.0		0.0	6.9	180.4	15.2	OK
							SLE Q.P.	76.1		0.0		0.0	6.9	179.2	15.1	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 106 110 Sez. 1 Rett. 25x21 [cm] 25X21								
0.05	2.20	2.15	1.00	10.84	25.83	128.33	45.60	ø 8 2br. 12.5'

Travata: ***Travata 111 Nodi 103 107***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 25x40 [cm] 25X40																
103	0.13	2.01	2.78			140.8	2749.1	0.12	-234.9	-3664.3	0.13					
				SLE Rare		0.0			-42.5			1.1	0.0	4.6	43.4	
				SLE Freq.		0.0			-33.4			0.8	0.0	3.6	34.0	OK
				SLE Q.P.		0.0			-31.4			0.8	0.0	3.4	32.0	OK
Camp.	1.08	3.08	3.08	325.1	93.9	0.0	4024.6	0.13	-285.2	-4024.6	0.13					
				SLE Rare		0.0			-182.2			4.3	0.0	28.8	186.7	
				SLE Freq.		0.0			-171.6			4.1	0.0	27.1	175.9	OK
				SLE Q.P.		0.0			-169.4			4.0	0.0	26.8	173.6	OK
107	2.03	2.18	2.78			0.0	2953.5	0.12	-176.1	-3664.6	0.13					
				SLE Rare		0.0			-95.7			2.4	0.0	11.1	97.6	
				SLE Freq.		0.0			-83.6			2.1	0.0	9.7	85.3	OK
				SLE Q.P.		0.0			-81.3			2.1	0.0	9.4	83.0	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 103 107 Sez. 2 Rett. 25x40 [cm] 25X40								
0.13	2.03	1.90	1.00	3.49	36.83	279.77	62.13	ø 8 2br. 20.0'

Travata: ***Travata 111 Nodi 107 111***

Nodo	x [m]	A_{fe} [cm²]	A_{fi} [cm²]	q_T [kg/m]	M_{rif} [kgm]	M_{de} [kgm]	M_{re} [kgm]	x/d	M_{di} [kgm]	M_{ri} [kgm]	x/d	σ_{be} [kg/cm²]	σ_{bi} [kg/cm²]	σ_{fe} [kg/cm²]	σ_{fi} [kg/cm²]	w mm
Trave Sez. 2 Rett. 25x40 [cm] 25X40																
107	0.13	2.18	2.78			0.0	2955.9	0.12	-137.8	-3664.9	0.13					
				SLE Rare		0.0			-64.8			1.6	0.0	7.5	66.2	
				SLE Freq.		0.0			-52.9			1.3	0.0	6.2	54.0	OK
				SLE Q.P.		0.0			-50.6			1.3	0.0	5.9	51.6	OK
Camp.	1.13	3.08	3.08	325.0	102.8	0.0	4024.6	0.13	-261.8	-4024.6	0.13					
				SLE Rare		0.0			-169.2			4.0	0.0	26.8	173.5	
				SLE Freq.		0.0			-158.5			3.8	0.0	25.1	162.5	OK
				SLE Q.P.		0.0			-156.5			3.7	0.0	24.8	160.4	OK
111	2.13	2.01	2.78			148.2	2747.0	0.12	-204.7	-3664.0	0.13					
				SLE Rare		0.0			-24.3			0.6	0.0	2.6	24.8	
				SLE Freq.		0.0			-15.8			0.4	0.0	1.7	16.1	OK
				SLE Q.P.		0.0			-13.8			0.4	0.0	1.5	14.1	OK

Da [m]	A [m]	Dx [m]	cotg(θ)	V_{Ed} [kN]	$V_{Rd,c}$ [kN]	V_{Rcd} [kN]	V_{Rd} [kN]	Staffe
Trave 107 111 Sez. 2 Rett. 25x40 [cm] 25X40								
0.13	2.13	2.00	1.00	3.55	36.83	279.77	62.13	ø 8 2br. 20.0'

- En.Ex.Sys. WinStrand
- Verifiche travi

En.Ex.Sys. WinStrand

Structural Analisys & Design

Ditta produttrice:
En.Ex.Sys. s.r.l. - Via Tizzano 46/2 - Casalecchio di Reno (Bologna)
Sigla:
WinStrand
Piattaforma software:
Microsoft Windows XP Home, Microsoft Windows XP Home Professional
Documentazione in uso:
Manuale teorico - Manuale d'uso
Campo di applicazione:
Analisi statica e dinamica di strutture in campo elastico lineare.

Elementi finiti implementati

- Truss.
- Beam (Modellazione di Travi e Pilastri).
- Travi su suolo elastico alla Winckler.
- Plinti su suolo elastico alla Winckler.
- Elementi Shear Wall per la modellazione di pareti di taglio.
- Elementi shell (lastra/piastra) equivalenti.
- Elementi Isoparametrici a 8 Nodi Shell (lastra/piastra).

Schemi di Carico

- Carichi nodali concentrati.
- Carichi applicati direttamente agli elementi.
- Carichi Superficiali.

Tipo di Risoluzione

- Analisi statica e/o dinamica in campo lineare con il metodo dell'equilibrio.
- Fattorizazione LDL^T.
- Analisi Statica:
  -
    - modellazione generale 6 gradi di libertà per nodo.
    - ipotesi di solai infinitamente rigidi nel proprio piano (3 gradi di libertà per nodo + 3 per impalcato).
- Analisi dinamica. (Nel caso di analisi modale gli autovettori ed autovalori possono essere calcolati mediante *subspace iteration* oppure tramite il *metodo dei vettori di Ritz*):
  -
    - Via statica equivalente.
    - Modale con il metodo dello spettro di risposta.

Normativa di riferimento

La normativa italiana cui viene fatto riferimento nelle fasi di calcolo e progettazione è la seguente:

- Circolare del 2 Febbraio 2009, n. 617 *"Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14 gennaio 2008"*
- D.M. del 14 Gennaio 2008 *"Approvazione delle nuove norme tecniche per le costruzioni"*
- Ordinanza n. 3274 del 20 Marzo 2003. *"Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica"*
- Ordinanza n. 3316. *"Modifiche ed integrazioni all'ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 Marzo 2003"*
- D.M. del 16 Gennaio 1996. *"Norme tecniche relative ai «Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi»"*.
- D.M del 16 Gennaio 1996. *"Norme tecniche per le costruzioni in zone sismiche"*
- D.M. del 9 Gennaio 1996. *"Norme Tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche"*.
- D.M. del 14 Febbraio 1992. *"Norme Tecniche per l'esecuzione delle opere in C.A. normale e precompresso e per le strutture metalliche"*.
- D.M. del 3 Ottobre 1978. *"Criteri generali per la verifica della sicurezza delle costruzioni e dei carichi e sovraccarichi"*.
- D.M. del 3 Marzo 1975. *"Disposizioni concernenti l'applicazione delle norme tecniche per le costruzioni in zone sismiche"*.
- D.M. del 3 Marzo 1975. *"Approvazione delle norme tecniche per le costruzioni in zone sismiche"*.
- Legge n. 64 del 2 Febbraio 1974. *"Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche"*.

- Legge n. 1086 del 5 Novembre 1971. *"Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso, ed a struttura metallica"*.
- *Istruzioni per la valutazione delle: Azioni sulle Costruzioni*. (C.N.R. 10012/85)

Verifiche pilastri

Modalità di verifica

I pilastri vengono verificati (a discrezione dell'utente) secondo una delle seguenti modalità:

- Presso-tenso flessione deviata.
- Presso-tenso flessione retta. In tale caso viene svolta prima la verifica a presso-tenso flessione considerando come azioni agenti lo sforzo normale ed il momento M_x agente sulla sezione poi, disgiuntamente, considerando come azioni agenti lo sforzo normale e l'altro momento M_y. A discrezione dell'operatore tali momenti (a favore della sicurezza) possono essere incrementati di un fattore di amplificazione anch'esso a discrezione dell'utente.

Le verifiche vengono effettuate nella sezione di sommità e in quella di base in tutte le combinazioni di carico.

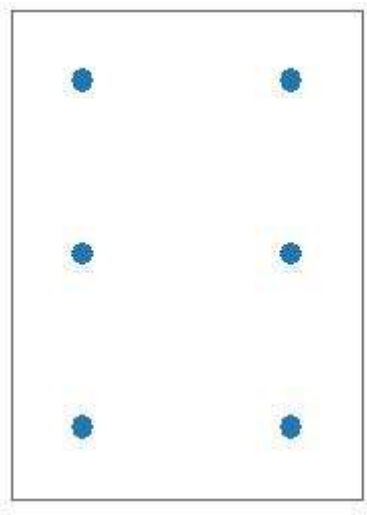
Nelle stampe si riportano (per le due sezioni di verifica succitate) le sollecitazioni relative alla combinazione di carico critica. Le sollecitazioni di verifica alle estremità sono valutate ad una ascissa di spunto definita dall'utente.

Sezioni Impiegate:

Sez. Num.	Info	Dimensioni	Criterio	Calcestruzzo	γ_M	F.C.	f_{ck} [kg/cm²]	f_{cd} [kg/cm²]	σ_{RARE} [kg/cm²]	σ_{FREQ} [kg/cm²]	σ_{QP} [kg/cm²]	Acciaio	γ_M	F.C.	f_{yk} [kg/cm²]	f_{yd} [kg/cm²]	σ_{yRARE} [kg/cm²]	σ_{yFREQ} [kg/cm²]	σ_{yQP} [kg/cm²]	Copr. [cm]
1	Rett. 25X35	B 25 [cm] H 35 [cm]	Verpil	C25/30	1.50	1.00	250.0	141.7	150.0	250.0	112.5	B 450 C	1.15	1.00	4500.0	3913.0	3600.0	4500.0	4500.0	3.50

Verifiche Pilastri:

Sezioni trasversali impiegate

Identificativo	Sezione trasversale	info
Sezione 1 / Posizione A		6 ø 16 Af=12.06 [cm²] ø 16

Pilastro: 3/103 / L 4.90[m] / Sezione 1 B 25 [cm]H 35 [cm]

Af: Sezione 1 / Posizione A

Staffe: ø 8/15.0 x 490.3

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
3	36	-47.92	1517.4	202.1	0.19

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
3 - 103	36	-37.20	-1493.9	-148.3	0.19
103	2	-60.12	3.6	13.5	0.04

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kN]	V_{Rd12} [kN]	S/R_{12} [kN]	$cotg(\theta)_{13}$	V_{d13} [kN]	V_{Rd13} [kN]	S/R_{13} [kN]	Staffe
0.13	5.03	1.00	6.15	71.04	0.09	1.00	0.88	47.44	0.02	ø 8/15.0

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
3	Ft. 37	-46.81	175.9	-27.7	-30.6
	$\sigma_{s,c}$38	-49.30	180.0	-31.5	-107.4
	$\sigma_{cls,Max}$38	-49.30	180.0	-31.5	-8.3
	$\sigma_{cls,Med}$38	-49.30	180.0	-31.5	-4.7
3 - 103	Ft. 40	-35.78	-171.4	38.9	-13.5
	$\sigma_{s,c}$38	-38.57	-174.3	49.2	-94.7
	$\sigma_{cls,Max}$38	-38.57	-174.3	49.2	-7.6
	$\sigma_{cls,Med}$38	-38.57	-174.3	49.2	-3.7
103	Ft. 40	-41.14	4.7	10.3	-55.6
	$\sigma_{s,c}$38	-43.93	2.9	8.8	-64.7
	$\sigma_{cls,Max}$38	-43.93	2.9	8.8	-4.4
	$\sigma_{cls,Med}$38	-43.93	2.9	8.8	-4.2
	Combinazioni Frequenti				
3	Ft. 41	-44.27	168.3	-25.1	-28.9
	$\sigma_{s,c}$42	-45.10	168.0	-24.5	-97.9
	$\sigma_{cls,Max}$42	-45.10	168.0	-24.5	-7.5
	$\sigma_{cls,Med}$42	-45.10	168.0	-24.5	-4.3
3 - 103	Ft. 41	-33.55	-158.4	37.4	-12.8
	$\sigma_{s,c}$42	-34.38	-159.6	38.6	-84.1
	$\sigma_{cls,Max}$42	-34.38	-159.6	38.6	-6.7
	$\sigma_{cls,Med}$42	-34.38	-159.6	38.6	-3.3
103	Ft. 44	-38.64	4.9	7.5	-52.5
	$\sigma_{s,c}$42	-39.74	4.2	7.0	-58.6
	$\sigma_{cls,Max}$42	-39.74	4.2	7.0	-4.0
	$\sigma_{cls,Med}$42	-39.74	4.2	7.0	-3.8
	Combinazioni Quasi Permanenti				
3	Ft. 45	-44.11	166.4	-23.0	-29.4
	$\sigma_{s,c}$45	-44.11	166.4	-23.0	-95.9
	$\sigma_{cls,Max}$45	-44.11	166.4	-23.0	-7.4
	$\sigma_{cls,Med}$45	-44.11	166.4	-23.0	-4.2
3 - 103	Ft. 45	-33.38	-156.9	36.2	-13.1
	$\sigma_{s,c}$45	-33.38	-156.9	36.2	-81.7
	$\sigma_{cls,Max}$45	-33.38	-156.9	36.2	-6.5
	$\sigma_{cls,Med}$45	-33.38	-156.9	36.2	-3.2
103	Ft. 45	-38.75	4.7	6.6	-52.9
	$\sigma_{s,c}$45	-38.75	4.7	6.6	-57.2
	$\sigma_{cls,Max}$45	-38.75	4.7	6.6	-3.9
	$\sigma_{cls,Med}$45	-38.75	4.7	6.6	-3.7

Pilastro: 7/107 / L 4.90[m] / Sezione 1 B 25 [cm]H 35 [cm]

Af: Sezione 1 / Posizione A

Staffe: ø 8/15.0 x 490.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
7	13	-34.32	-1530.2	-27.1	0.19
7 - 107	13	-23.61	1535.0	62.5	0.20
107	2	-51.56	3.0	26.2	0.03

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kN]	V_{Rd12} [kN]	S/R_{12} [kN]	$cotg(\theta)_{13}$	V_{d13} [kN]	V_{Rd13} [kN]	S/R_{13} [kN]	Staffe
0.13	5.03	1.00	6.26	71.04	0.09	1.00	0.37	47.44	0.01	ø 8/15.0

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
7	Ft. 37	-39.04	-34.8	-24.3	-44.6
	$\sigma_{s,c}$38	-42.88	-34.7	-28.9	-72.7
	$\sigma_{cls,Max}$38	-42.88	-34.7	-28.9	-5.3
	$\sigma_{cls,Med}$38	-42.88	-34.7	-28.9	-4.1
7 - 107	Ft. 40	-27.36	38.9	51.6	-21.8
	$\sigma_{s,c}$38	-32.16	38.7	64.5	-65.3
	$\sigma_{cls,Max}$38	-32.16	38.7	64.5	-5.1
	$\sigma_{cls,Med}$38	-32.16	38.7	64.5	-3.0
107	Ft. 40	-32.72	2.1	19.4	-42.2
	$\sigma_{s,c}$38	-37.52	2.0	17.8	-57.2
	$\sigma_{cls,Max}$38	-37.52	2.0	17.8	-4.0
	$\sigma_{cls,Med}$38	-37.52	2.0	17.8	-3.6
	Combinazioni Frequenti				
7	Ft. 41	-35.61	-35.1	-21.2	-40.3
	$\sigma_{s,c}$42	-37.24	-35.0	-20.7	-63.1
	$\sigma_{cls,Max}$42	-37.24	-35.0	-20.7	-4.6
	$\sigma_{cls,Med}$42	-37.24	-35.0	-20.7	-3.5
7 - 107	Ft. 41	-24.89	39.3	48.7	-18.8
	$\sigma_{s,c}$42	-26.52	39.2	50.5	-54.5
	$\sigma_{cls,Max}$42	-26.52	39.2	50.5	-4.3
	$\sigma_{cls,Med}$42	-26.52	39.2	50.5	-2.5
107	Ft. 44	-30.03	2.1	15.3	-39.2
	$\sigma_{s,c}$42	-31.88	2.1	14.9	-48.6
	$\sigma_{cls,Max}$42	-31.88	2.1	14.9	-3.4
	$\sigma_{cls,Med}$42	-31.88	2.1	14.9	-3.0
	Combinazioni Quasi Permanenti				
7	Ft. 45	-35.70	-35.1	-18.8	-40.9
	$\sigma_{s,c}$45	-35.70	-35.1	-18.8	-60.5
	$\sigma_{cls,Max}$45	-35.70	-35.1	-18.8	-4.4
	$\sigma_{cls,Med}$45	-35.70	-35.1	-18.8	-3.4
7 - 107	Ft. 45	-24.99	39.3	47.3	-19.3
	$\sigma_{s,c}$45	-24.99	39.3	47.3	-51.7
	$\sigma_{cls,Max}$45	-24.99	39.3	47.3	-4.1
	$\sigma_{cls,Med}$45	-24.99	39.3	47.3	-2.4
107	Ft. 45	-30.35	2.1	14.2	-39.9
	$\sigma_{s,c}$45	-30.35	2.1	14.2	-46.3
	$\sigma_{cls,Max}$45	-30.35	2.1	14.2	-3.2
	$\sigma_{cls,Med}$45	-30.35	2.1	14.2	-2.9

Pilastro: 11/111 / L 4.90[m] / Sezione 1 B 25 [cm]H 35 [cm]

Af: Sezione 1 / Posizione A

Staffe: ø 8/15.0 x 490.0

Verifiche a Presso-Flessione S.L.U.

Nodo	Comb	N [kN]	M_{12} [kgm]	M_{13} [kgm]	Sd/Sr
11	15	-45.35	-1596.9	185.9	0.21
11 - 111	15	-34.63	1572.3	-137.0	0.20
111	2	-56.32	-4.7	9.5	0.03

Verifiche a Taglio

Da [m]	A [m]	$cotg(\theta)_{12}$	V_{d12} [kN]	V_{Rd12} [kN]	S/R_{12} [kN]	$cotg(\theta)_{13}$	V_{d13} [kN]	V_{Rd13} [kN]	S/R_{13} [kN]	Staffe
0.13	5.03	1.00	6.47	71.04	0.09	1.00	0.96	47.44	0.02	ø 8/15.0

Verifiche a Presso-Flessione S.L.E.

Nodo	Combinazione	N [kN]	M_{12} [kgm]	M_{13} [kgm]	σ [kg/cm²]
	Combinazioni Rare				
11	Ft. 37	-44.15	-244.3	-47.4	-10.7
	$\sigma_{s,c}38$	-46.69	-248.4	-51.3	-119.5
	$\sigma_{cls,Max}38$	-46.69	-248.4	-51.3	-9.6
	$\sigma_{cls,Med}38$	-46.69	-248.4	-51.3	-4.5
11 - 111	Ft. 40	-33.09	238.3	53.2	9.5
	$\sigma_{s,c}38$	-35.97	241.4	63.7	-107.4
	$\sigma_{cls,Max}38$	-35.97	241.4	63.7	-9.0
	$\sigma_{cls,Med}38$	-35.97	241.4	63.7	-3.8
111	Ft. 40	-38.45	-5.3	7.8	-52.1
	$\sigma_{s,c}38$	-41.33	-3.5	6.2	-60.6
	$\sigma_{cls,Max}38$	-41.33	-3.5	6.2	-4.1
	$\sigma_{cls,Med}38$	-41.33	-3.5	6.2	-3.9
	Combinazioni Frequenti				
11	Ft. 41	-41.58	-236.8	-44.7	-8.8
	$\sigma_{s,c}42$	-42.45	-236.6	-44.1	-110.1
	$\sigma_{cls,Max}42$	-42.45	-236.6	-44.1	-8.9
	$\sigma_{cls,Med}42$	-42.45	-236.6	-44.1	-4.1
11 - 111	Ft. 41	-30.86	225.6	51.7	10.5
	$\sigma_{s,c}42$	-31.73	226.7	52.9	-96.9
	$\sigma_{cls,Max}42$	-31.73	226.7	52.9	-8.1
	$\sigma_{cls,Med}42$	-31.73	226.7	52.9	-3.5
111	Ft. 44	-35.96	-5.6	4.8	-49.2
	$\sigma_{s,c}42$	-37.09	-4.9	4.4	-54.4
	$\sigma_{cls,Max}42$	-37.09	-4.9	4.4	-3.7
	$\sigma_{cls,Med}42$	-37.09	-4.9	4.4	-3.5
	Combinazioni Quasi Permanenti				
11	Ft. 45	-41.43	-234.9	-42.6	-9.4
	$\sigma_{s,c}45$	-41.43	-234.9	-42.6	-108.1
	$\sigma_{cls,Max}45$	-41.43	-234.9	-42.6	-8.7
	$\sigma_{cls,Med}45$	-41.43	-234.9	-42.6	-4.0
11 - 111	Ft. 45	-30.71	224.1	50.4	10.0
	$\sigma_{s,c}45$	-30.71	224.1	50.4	-94.7
	$\sigma_{cls,Max}45$	-30.71	224.1	50.4	-8.0
	$\sigma_{cls,Med}45$	-30.71	224.1	50.4	-3.4
111	Ft. 45	-36.07	-5.4	3.9	-49.5
	$\sigma_{s,c}45$	-36.07	-5.4	3.9	-53.0
	$\sigma_{cls,Max}45$	-36.07	-5.4	3.9	-3.6
	$\sigma_{cls,Med}45$	-36.07	-5.4	3.9	-3.4

- En.Ex.Sys. WinStrand
- Verifiche pilastri

CALCOLO SOLAIO BAUSTA-DM 14/01/2018 Vers. 2.0

Luce di calcolo L	2.40	m	
tratto rigido a	0.00	m	
luce netta Ln	2.40	m	
peso proprio G1	3.00	kN/m2	
gamma_G1	1.50		
car. perm. Portati G2	1.00	kN/m2	
gamma_G2	1.50		
car. esercizio Q	1.70	kN/m2	
gamma_Q	1.50		
Cmezz	10		
Capp	12		
TRAVETTO			
interasse travetti i	0.50	m	*ok i<15s*
altezza totale h	210	mm	
base bo (travetto)	120	mm	*ok bo>8cm*
base B (mezzeria)	500	mm	
spessore soletta s	50	mm	
copriferro c	25	mm	
diametro barre traliccio	5	mm	
diametro barre aggiunte mezzeria	10	mm	
numero barre aggiunte mezzeria	1		
diametro barre aggiunte incastro	10	mm	
numero barre aggiunte incastro	1		
As mezzeria	117.8097245	mm2	
As appoggio	98.16481634	mm2	
altezza utile d	185	mm	
MATERIALI			
Rck	30	MPa	
fck	24.9	Mpa	
gamma_c	1.5		
fcm	32.9	Mpa	
fcd	14.11	Mpa	
fctm	2.56	Mpa	
fctm,fl	3.07	MPa	
Ecm	31447	Mpa	
fyk	450	Mpa	
Es	200000	Mpa	
gamma_s	1.15		
fyd	391.30	Mpa	
n effettivo	6.36		
VERIFICHE SLU			
Fd	4.28	kN/m	*combinazione fondamer*
Msd-mezzeria	2.46	kNm	
Msd-appoggio	2.05	kN/m	
Msd-filo trave	2.05	kN/m	
Vsd-filo trave	5.13	kN	
SEZIONE DI MEZZERIA			
y	6.53	mm	*asse neutro cade nella s*
Mrd	8.38	kNm	
Mrd/Msd	3.40	*verificato*	

SEZIONE DI APPOGGIO

y	22.69	mm
Mrd-appoggio	4.20	kNm
Mrd/Msd	2.05	*verificato*
Vrd	12.09	kN
Vrd,min	11.30	kN
Vrd>Vrd,min		*verificato*
Vrd/Vsd	2.36	*verificato*

VERIFICHE SLE

psi_1	0.20		relativi alla categoria
psi_2	0.00		relativi alla categoria
Fd_r	2.85	kN/m	*combinazione rara*
Fd_fr	2.17	kN/m	*combinazione frequente*
Fd_qp	2.00	kN/m	*combinazione quasi per*

VERIFICA DELLE TENSIONI DI ESERCIZIO

tensioni limite	sigma_c Mpa	sigma_s MPa
comb. Rara	14.94	360
comb. Quasi perm.	11.21	360

SEZIONE DI MEZZERIA	M kNm	x mm	sigma_c Mpa	sigma_s Mpa
comb. Rara	1.64	22.10	1.67	78.44
comb. Quasi perm.	1.15	22.10	1.17	55.05

SEZIONE DI APPOGGIO	M kNm	x mm	sigma_c Mpa	sigma_s Mpa
comb. Rara	1.37	38.98	3.40	65.37
comb. Quasi perm.	0.96	38.98	2.39	45.87

VERIFICA DI FESSURAZIONE

SEZIONE DI MEZZERIA

condizioni ambientali		*ordinarie*
tipo di armatura		*poco sensibile*
aperture limite		
comb. Frequente	w3	*0.4*
comb. Quasi perm	w2	*0.3*

	M kNm	Mpr_fess kNm	sigma_s MPa	e_sm-e_cm
comb. Frequente	1.25	2.71	64	-0.00004
comb. Quasi perm.	1.15	2.71	59	-0.00006

VERIFICA DI DEFORMABILITA'

rapporto di snellezza	11.43	
k	1	
ro	0.0047	
As	117.8097245	mm2
valore limite	21.10	*verificato*

VERIFICA FRECCIA

Asse neutro sezione intera	430.2093513	mm
Momento inerzia sezione intera	2802841207	mm3
Freccia stadio 1	0.009802431	mm
Asse neutro sezione fessurata	54.71221541	mm
Momento inerzia sezione fessurata	19269614.71	mm3

Freccia stadio 2	1.425802136	mm	(Mpr/M)^2	5.523543
Freccia effettiva	-6.395532903	mm		
Rapporto L/f	-375.2619268			

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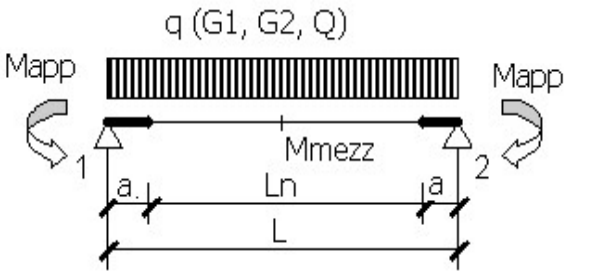
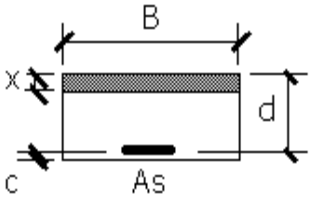
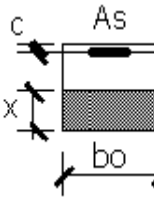
12.8



$$M_{mezz} = \frac{qL^2}{C_m}$$

$$M_{app^-} = \frac{qL^2}{C_{app}}$$





dati da inserire
risultati dei calcoli

cls stress-block

ntale

$$y = \frac{Asf_{yd}}{bf_{cd}}$$

$$M_{rd} = Asf_{yd}\left(\frac{H}{2} - c\right)$$

soletta

$$V_{rd} = \{0.18k(100\rho_l f_{ck}$$

k	2.04
ro_l	0.00442
vmin	0.5088

$$x = \frac{nAs}{b}\left(-1 + \sqrt{1 + \frac{2b}{nA}}\right)$$

$$\sigma_c = \frac{2M}{bx\left(d - \frac{x}{3}\right)} \leq \bar{\sigma}_c$$

$$\sigma_s = \frac{M}{A_s\left(d - \frac{x}{3}\right)} \leq \bar{\sigma}_s$$

manente

verificato
verificato

verificato
verificato

x	42.225
ro_eff	0.0157
k1	0.8
k2	0.5
k3	3.4
k4	0.425
kt	0.4
sr,max	139.11

wk

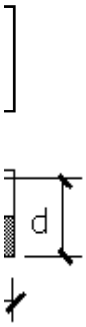
-0.0055	*verificato*
-0.0090	*verificato*

k	tipo
1	semplice appoggi
1.3	campate terminali
1.5	campate intermed
1.2	piastre su pilastri
0.4	mensole

$$\lambda = L/h$$

$$\lambda_{lim} = k\left(11 + \frac{0.001}{\rho}\right.$$

ıre.



$$f_{cd} by \left(\frac{H}{2} - 0.5y \right)$$

$_{c})^{1/3} / \gamma_c \} b_w d$

$\frac{d}{s}$

o

lie

$5f_{ck}\Big)\frac{500}{f_{yk}}$

Verifica pannelli tamponatura laterale corpo c

Normativa di riferimento:
DM 17/01/2008 Norme Tecniche sulle Costruzioni e Circolare n. 617/2009

La forza risultante F_a valutata al baricentro dell'elemento non strutturale è calcolata secondo la seguente relazione:

$$F_a = (S_a W_a) / q_a$$ *NTC 7.2.3*

F_a = forza sismica orizzontale agente al centro di massa dell'elemento non strutturale
W_a = peso dell'elemento
S_a = accelerazione massima, adimensionalizzata rispetto a quella di gravità, che l'elemento subisce durante il sisma

$$S_a = \alpha * S * \left(\frac{3*(1+Z/H)}{1+(1-T_a/T_1)^2} - 0.5 \right) \qquad Sa \geq \alpha * S$$

α = rapporto tra a_g valutata con sottosuolo tipo A e l'accelerazione di gravità g
S = coeff. che tiene conto dela categoria del sottosuolo e condizioni topografiche secondo il punto 3.2.3.2.1
T_a = periodo fondamentale di vibrazione dell'elemento non strutturale
T_1 = periodo fondamentale di vibrazione della costruzione nella direzione considerata
Z = quota baricentro elemento non strutturale dal piano di fondazione
H = altezza della costruzione dal piano di fondazione
q_a = fattore di struttura dell'elemento

Tabella 7.2.I – *Valori di q_a per elementi non strutturale*

Elemento non strutturale	q_a
Parapetti o decorazioni aggettanti	1,0
Insegne e pannelli pubblicitari	
Ciminiere, antenne e serbatoi su supporti funzionanti come mensole senza controventi per più di metà della loro altezza	
Pareti interne ed esterne	2,0
Tramezzature e facciate	
Ciminiere, antenne e serbatoi su supporti funzionanti come mensole non controventate per meno di metà della loro altezza o connesse alla struttura in corrispondenza o al di sopra del loro centro di massa	
Elementi di ancoraggio per armadi e librerie permanenti direttamente poggianti sul pavimento	
Elementi di ancoraggio per controsoffitti e corpi illuminanti	

Il momento resistente del pannello può essere calcolato con la formula 8.2 dell'O.P.C.M. 3274/2003 e vale:
(invertendo spessore e lunghezza del pannello per passare dalla resistenza a pressoflessione nel piano a fuori dal piano)

$$M_{rd} = (l\, t^2\, \sigma_0 / 2)\, (1 - \sigma_0 / 0{,}85\, f_d)$$

PARAMETRI DI PERICOLOSITA' SISMICA

Classe edificio	Classe II: costruzioni il cui uso preveda normali affollamenti...		*NTC 2.4.2*
Vita nominale V_N	50	anni	*NTC 2.4.1*
accelerazione massima orizzontale del terreno a_g	a_g (g)		
	0.1745		
valore massimo del fattore di amplificazione dello spettro F_0	F_0		
	2.4341		

ACCELERAZIONE DI PICCO DEL TERRENO

a_g * S = 0.1745 x 1.2 = 0.209 g

ACCELERAZIONE DI PICCO DEL TERRENO CON SOTTOSUOLO TIPO A

a_g * S = 0.1745 x 1 = 0.175 g

categoria sottosuolo	B- Rocce tenere e depositi di terreni a grana grossa molto addensati o terreni a grana fine molto consistenti...	*NTC 3.2.2*

NTC 3.2.3.2.1

coeff. S = S_S * S_T	coefficiente di amplificazione topografica S_T	T1 superficie pianeggiante o pendii <=15%	*Tab. 3.2.IV*
		S_T = 1	*Tab. 3.2.VI*
	coefficiente di amplificazione stratigrafica S_S	categoria sottosuolo B	*Tab. 3.2.II*
		S_S = 1.2	*Tab. 3.2.V*

Tab. 3.2.V

categoria terreno	A	B	C	D	E
valore di S_S	1	$1.4-0.4*F_0*a_g/g$	$1.7-0.6*F_0*a_g/g$	$2.4-1.5*F_0*a_g/g$	$2.0-1.1*F_0*a_g/g$
limitazioni		$1.0 \leq S_S \leq 1.2$	$1.0 \leq S_S \leq 1.5$	$0.9 \leq S_S \leq 1.8$	$1.0 \leq S_S \leq 1.6$
valore calcolato		1.38	1.67	2.34	1.95
valore effettivo	1	1.20	1.50	1.80	1.60

coeff. S = S_S * S_T = 1.2 x 1 = 1.2

Verifica del pannello a quota	2.25	m			
Z	2.25	m	quota baricentro elemento non strutturale dal piano di fondazione		
H	4.50	m	altezza della costruzione dal piano di fondazione		
S	1.2		amplificazione locale		
h	4.50	m	altezza pannello		
γ mur	1000.00	kg/mc	peso specifico muratura		***
t	0.25	m	spessore muratura		
W	2475	kg	peso pannello		
E_m	35000000	kN/mq	modulo elastico muratura		
l	2.20	m	lunghezza parete (striscia unitaria)		
T_1	0.08	s	periodo fondamentale di vibrazione della costruzione nella direzione considerata		
T_a	$T_a = 0.2*u^{0.5}$		$u = F*h^3 / 48EJ$	$J = t^3 * l / 12 =$	$F = m * g$
	0.04308 s		0.00045927 m	0.002864583 m^4	24255 N
T_a / T_1	0.54				
a_g	0.209	g	accelerazione al suolo		
α	0.175		a_g (sottosuolo A) / g	α * S = 0.209	
S_a	0.672		accelerazione adimensionale pannello	$\geq \alpha$*S	
q_a	2		fattore di struttura del pannello		
F_a	1829.83	kg	forza fuori piano pannello		
M_{Fa}	4117.11	kgm	momento generato da F_a		

Calcolo Momento Resistente del pannello

σ_0	9900	kg/mq	tensione verticale nel baricentro del pannello	
f_k	428000	kg/mq	resistenza a compressione caratteristica della muratura	***
$f_d = f_k / 2$	214000	kg/mq	tensione di progetto muratura	
M_{rd}	643.58	kgm	momento resistente	

$$FS = \frac{M_{rd}}{M_{Fa}} = \frac{643.58}{4117.11} = 0.16$$

*** : blocco poroton P700 P25 rif. Gattelli

Ove non verificato si può predisporre l'inserimento di leggere reti da intonaco sui due lati della muratura, collegate tra loro ed alle strutture circostanti a distanza non superiore a 500 mm sia in direzione orizzontale sia in direzione verticale, come prescritto dalla Circolare n. 617/2009 al § 7.3.6.3.

Si opta per l'apposizione di barre di ancoraggio fissate alle strutture portanti, e poste all'interno dei letti di malta della muratura, con interasse non superiore a cm 50. Segue verifica delle barre di ancoraggio.

ACCIAIO

tipo B450C

f_{yk} =	450	N/mm^2	*tensione caratterisica di snervamento*	*NTC 11.3.2.1*
γ_s =	1.15		*coefficiente parziale di sicurezza per l'acciaio*	*NTC 4.1.2.1.1.3*
f_{yd} =	391	N/mm^2	$f_{yd} = f_{yk} / \gamma_s$	*NTC 4.1.2.1.1.3*

Per la verifica a taglio delle barre di ancoraggio, cautelativamente, si seguono i principi della formula (4.2.60) del punto 4.2.8.1.1 delle NTC, valide per le unioni chiodate e bullonate. Ovvero la resistenza a taglio data dal prodotto A*fyd viene ridocca con un fattore pari a 0.6

$$F_{v.Rd} = 0.6*f_{yd}*A$$

barre di ancoraggio

	lato sx		lato dx	
ϕ	6	mm	6	mm
N. barre ogni letto di malta ancorato	1		1	
interasse ancoraggi	50	cm	50	cm
A = area resistente barra di ancoraggio	28.26	mm^2	28.26	mm^2
$F_{v.Rd}$ singola barra	6635	N	6635	N
N. barre necessarie minime	2.0		2.0	

si adottano le seguenti barre di ancoraggio:

	lato sx		lato dx	
ϕ	6	mm	6	mm
N. file di barre	2		2	
N. barre ogni letto di malta ancorato	1		1	
interasse ancoraggi	150	cm	150	cm
A = area resistente barra di ancoraggio	28.26	mm^2	28.26	mm^2

A = area resistente totale	56.52	mm^2	56.52	mm^2
$F_{v.Rd}$	1327	kg	1327	kg

verifica $\frac{F_{v.Rd}}{F_a} \geq 1$ $\frac{2654}{1830}$ = 1.45