



16



# SPORT E PERIFERIE

PIANO PLURIENNALE DEGLI INTERVENTI  
EX ART.15 COMMA 3 DECRETO LEGGE 185/2005

## COMUNE DI FANO

### RIIQUALIFICAZIONE CAMPO SPORTIVO MILITARI

## PROGETTO ESECUTIVO

ARCHITETTONICO

Dott. Arch. Mariangela Gionmi

STRUTTURALE

Dott. Ing. Mirco Frattini

IMPIANTI

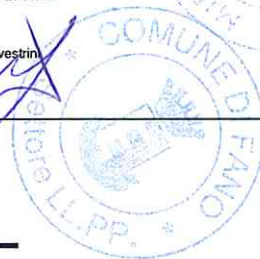
Dott. Ing. Carlo Finocchi

IMPIANTO ELETTRICO

Per. Ind. Tedizio Zacchilli

RESPONSABILE DEL PROCEDIMENTO

Geom. Mario Silvestrini



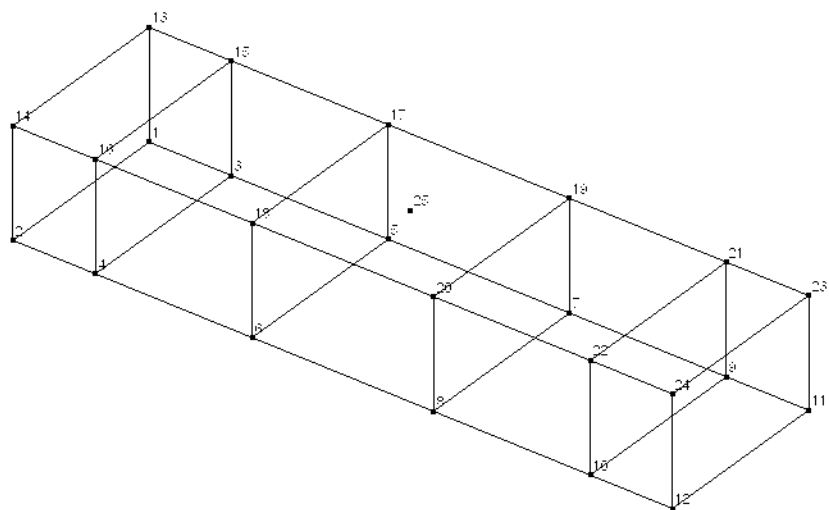
25 SET. 2019

TITOLO TAV.

**ALLEGATO 1  
RELAZIONE DI CALCOLO E  
VERIFICA DELLE STRUTTURE**

TAV

**ALL1**



SCHEMA STRUTTURALE

### Spogliatoio.sap

All-In-One EWS 47 (03.04.2018) build 7089

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### COORDINATE E DATI DEI NODI (Fase 1)

Nodo	x	y	z	tx	ty	tz	rx	ry	rz	ms	fz	mm
1	0.0000e+000	0.0000e+000	0.0000e+000	1	1	0	0	0	1	0	0	0
2	5.9000e+002	0.0000e+000	0.0000e+000	1	1	0	0	0	1	0	0	0
3	0.0000e+000	2.6750e+002	0.0000e+000	1	1	0	0	0	1	0	0	0
4	5.9000e+002	2.6750e+002	0.0000e+000	1	1	0	0	0	1	0	0	0
5	0.0000e+000	7.7750e+002	0.0000e+000	1	1	0	0	0	1	0	0	0
6	5.9000e+002	7.7750e+002	0.0000e+000	1	1	0	0	0	1	0	0	0
7	0.0000e+000	1.3675e+003	0.0000e+000	1	1	0	0	0	1	0	0	0
8	5.9000e+002	1.3675e+003	0.0000e+000	1	1	0	0	0	1	0	0	0
9	0.0000e+000	1.8775e+003	0.0000e+000	1	1	0	0	0	1	0	0	0
10	5.9000e+002	1.8775e+003	0.0000e+000	1	1	0	0	0	1	0	0	0
11	0.0000e+000	2.1450e+003	0.0000e+000	1	1	0	0	0	1	0	0	0
12	5.9000e+002	2.1450e+003	0.0000e+000	1	1	0	0	0	1	0	0	0
13	0.0000e+000	0.0000e+000	3.5500e+002	0	0	0	0	0	0	25	0	0
14	5.9000e+002	0.0000e+000	3.5500e+002	0	0	0	0	0	0	25	0	0
15	0.0000e+000	2.6750e+002	3.5500e+002	0	0	0	0	0	0	25	0	0
16	5.9000e+002	2.6750e+002	3.5500e+002	0	0	0	0	0	0	25	0	0
17	0.0000e+000	7.7750e+002	3.5500e+002	0	0	0	0	0	0	25	0	0
18	5.9000e+002	7.7750e+002	3.5500e+002	0	0	0	0	0	0	25	0	0
19	0.0000e+000	1.3675e+003	3.5500e+002	0	0	0	0	0	0	25	0	0
20	5.9000e+002	1.3675e+003	3.5500e+002	0	0	0	0	0	0	25	0	0
21	0.0000e+000	1.8775e+003	3.5500e+002	0	0	0	0	0	0	25	0	0
22	5.9000e+002	1.8775e+003	3.5500e+002	0	0	0	0	0	0	25	0	0
23	0.0000e+000	2.1450e+003	3.5500e+002	0	0	0	0	0	0	25	0	0
24	5.9000e+002	2.1450e+003	3.5500e+002	0	0	0	0	0	0	25	0	0
25	2.9500e+002	1.0725e+003	3.5500e+002	0	0	1	1	1	0	0	3	0

### Constraint - Master-Slave

Master	Slave
25	24 23 22 21 20 19 18 17 16 15 14 13

### ESTREMI E DATI DEGLI ELEMENTI (Fase 1)

Elemento	Estremi	Tipo	Carico	NodoK	Massa	Materiale	EE
1	2 14	3	1	0	1		
2	1 13	3	1	0	1		
3	3 15	2	1	0	1		
4	4 16	2	1	0	1		
5	5 17	2	1	0	1		
6	6 18	2	1	0	1		
7	12 24	3	1	0	1		
8	10 22	2	1	0	1		
9	8 20	2	1	0	1		
10	7 19	2	1	0	1		
11	9 21	2	1	0	1		

12	11	23	3	1	0	1
13	14	13	4	6	0	2
14	16	15	5	1	0	1
15	18	17	5	1	0	1
16	20	19	5	1	0	1
17	22	21	5	1	0	1
18	24	23	4	6	0	2
19	16	14	4	7	0	3
20	18	16	4	7	0	3
21	20	18	4	7	0	3
22	22	20	4	7	0	3
23	24	22	4	7	0	3
24	15	13	4	7	0	3
25	17	15	4	7	0	3
26	19	17	4	7	0	3
27	21	19	4	7	0	3
28	23	21	4	7	0	3
29	2	1	1	2	0	0
30	4	3	1	3	0	0
31	6	5	1	4	0	0
32	8	7	1	4	0	0
33	10	9	1	3	0	0
34	12	11	1	2	0	0
35	4	2	1	2	0	0
36	6	4	1	2	0	0
37	8	6	1	2	0	0
38	10	8	1	2	0	0
39	12	10	1	2	0	0
40	3	1	1	2	0	0
41	5	3	1	2	0	0
42	7	5	1	2	0	0
43	9	7	1	2	0	0
44	11	9	1	2	0	0

## ELEMENTI TIPO (Fase 1)

### TRAVE SEZIONE DOPPIO T

Tipo	wd	wt	tft	tfw	bft	bftw	vi	vj
Materiale elastico: E=320672 G=160336								
2	25.0000	50.0000	0.0000	0.0000	0.0000	0.0000	0	0
3	50.0000	25.0000	0.0000	0.0000	0.0000	0.0000	0	0
4	40.0000	25.0000	0.0000	0.0000	0.0000	0.0000	0	0
5	20.0000	60.0000	0.0000	0.0000	0.0000	0.0000	0	0

### TRAVE WINKLER

Tipo	hh	bb	ft	wt	bw
Materiale elastico: E=320672 G=160336 K=8					
1	50.0000	60.0000	50.0000	60.0000	60.0000

## Tipi di carico

Nome	Tipo	Grav.	Gamma fav	Gamma unfav.	Gamma sismico	Psi 0	Psi 1	Psi 2	Psi 2 sismico	Phi (coeff. correl.)
Permanente	permanente	*	1.00	1.50	1.00	nd	nd	nd	nd	nd
Sismico SLU	sismico	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Sismico SLD	sismico	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Torcente SLU	sismico correlato	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Torcente SLD	sismico correlato	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Cat. A: Residenziale	variabile	*	nd	1.30	1.00	0.70	0.50	0.30	0.30	1.00
Cat. B: Uffici	variabile	*	nd	1.30	1.00	0.70	0.50	0.30	0.30	1.00
Cat. C: Affollamento	variabile	*	nd	1.30	1.00	0.70	0.70	0.60	0.60	1.00
Cat. D: Commerciale	variabile	*	nd	1.30	1.00	0.70	0.70	0.60	0.60	1.00
Cat. E: Magazzini	variabile	*	nd	1.30	1.00	1.00	0.90	0.80	0.80	1.00
Cat. F: Rimesse (<30kN)	variabile	*	nd	1.30	1.00	0.70	0.70	0.60	0.60	1.00
Cat. G: Rimesse (>30kN)	variabile	*	nd	1.30	1.00	0.70	0.50	0.30	0.30	1.00
Cat. H: Copertura	variabile	*	nd	1.30	0.00	0.00	0.00	0.00	0.00	1.00
Neve (q<1000)	variabile	*	nd	1.30	1.00	0.50	0.20	0.00	0.00	1.00
Neve (q>1000)	variabile	*	nd	1.30	1.00	0.70	0.50	0.20	0.20	1.00
Vento	variabile non contemporaneo		nd	1.30	0.00	0.60	0.20	0.00	0.00	1.00
Torcente SLV	sismico correlato		nd	1.00	0.00	nd	nd	nd	nd	nd

## SPETTRI DI RISPOSTA

### SLD

DATI GENERALI  
intervalli: 32  
durata: 2  
normativa: DM 2008  
tipo\_spetro: Elastico

ag: 0.0599485  
f0: 2.58144  
Tc: 0.278207  
ampl\_topogr: T1  
azione\_sismica: Orizzontale  
classe\_dutt: Bassa  
terreno: C  
desc\_terreno: Depositi di sabbie e ghiaie mediamente addensate o di argille di media consistenza  
smorzamento: 5

#### DATI STRUTTURA

materiale: Calcestruzzo  
tipo\_struttura: 1  
desc\_struttura: Telaio di un piano  
regolarita\_alt: Regolare  
regolarita\_pnt: Regolare  
fattore\_q: 1

#### DATI GEOGRAFICI

stato\_limite: Definibile  
prob\_superamento: 0.63  
vita: 50  
longitudine: 13.0379  
latitudine: 43.8363

periodo	risposta
0.00000	1.50000
0.06452	2.53043
0.14852	3.87216
0.19355	3.87216
0.25806	3.87216
0.32258	3.87216
0.38710	3.87216
0.44557	3.87216
0.51613	3.34281
0.58065	2.97138
0.64516	2.67424
0.70968	2.43113
0.77419	2.22854
0.83871	2.05711
0.90323	1.91017
0.96774	1.78283
1.03226	1.67140
1.09677	1.57309
1.16129	1.48569
1.22581	1.40750
1.29032	1.33712
1.35484	1.27345
1.41935	1.21557
1.48387	1.16272
1.54839	1.11427
1.61290	1.06970
1.67742	1.02856
1.74194	0.99046
1.80645	0.95509
1.87097	0.90679
1.93548	0.84734
2.00000	0.79356

#### SLV

#### DATI GENERALI

intervalli: 32  
durata: 2.31979  
normativa: DM 2008  
tipo\_spettro: Inelastico  
ag: 0.179946  
f0: 2.46815  
Tc: 0.296306  
ampl\_topogr: T1  
azione\_sismica: Orizzontale  
classe\_dutt: Bassa  
terreno: C  
desc\_terreno: Depositi di sabbie e ghiaie mediamente addensate o di argille di media consistenza  
smorzamento: 5

#### DATI STRUTTURA

materiale: Calcestruzzo  
tipo\_struttura: 1  
desc\_struttura: Telaio di un piano  
regolarita\_alt: Regolare  
regolarita\_pnt: Regolare  
fattore\_q: 3.3

#### DATI GEOGRAFICI

stato\_limite: Definibile  
 prob\_superamento: 0.1  
 vita: 50  
 longitudine: 13.0379  
 latitudine: 43.8363

periodo	risposta
0.00000	1.43352
0.07483	1.25898
0.15493	1.07217
0.22450	1.07217
0.29933	1.07217
0.37416	1.07217
0.46479	1.07217
0.52382	0.95133
0.59865	0.83242
0.67349	0.73993
0.74832	0.66593
0.82315	0.60539
0.89798	0.55495
0.97281	0.51226
1.04764	0.47567
1.12248	0.44396
1.19731	0.41621
1.27214	0.39173
1.34697	0.36996
1.42180	0.35049
1.49664	0.33297
1.57147	0.31711
1.64630	0.30270
1.72113	0.28954
1.79596	0.27747
1.87079	0.26637
1.94563	0.25613
2.02046	0.24664
2.09529	0.23783
2.17012	0.22963
2.24495	0.22198
2.31979	0.21482

### CARICHI UNIFORMI TIPO (Fase 1)

Condizione di carico: "Accidentali" Tipo: "Neve (q<1000)"

Tipo	cdx	cdy	cdz	ref	lato
6	0.0000e+000	0.0000e+000	-7.2000e-001	gbl	0
7	0.0000e+000	0.0000e+000	-4.2600e+000	gbl	0

Condizione di carico: "Permanenti" Tipo: "Permanente"

Tipo	cdx	cdy	cdz	ref	lato
2	0.0000e+000	0.0000e+000	-1.2000e+001	gbl	0
3	0.0000e+000	0.0000e+000	-4.0000e+000	gbl	0
4	0.0000e+000	0.0000e+000	-6.0000e+000	gbl	0
5	0.0000e+000	0.0000e+000	-4.2000e+000	gbl	0
6	0.0000e+000	0.0000e+000	-4.2000e+000	gbl	0
7	0.0000e+000	0.0000e+000	-1.6590e+001	gbl	0

### PESI PROPRI TIPO (Fase 1)

Condizione di carico: "Permanenti" Tipo: "Permanente"

Tipo	gm	gx	gy	gz
1	2.5000e-003	0.0000e+000	0.0000e+000	-1.0000e+000
2	2.5000e-003	0.0000e+000	0.0000e+000	-1.0000e+000
3	2.5000e-003	0.0000e+000	0.0000e+000	-1.0000e+000
4	2.5000e-003	0.0000e+000	0.0000e+000	-1.0000e+000
5	2.5000e-003	0.0000e+000	0.0000e+000	-1.0000e+000
6	2.5000e-003	0.0000e+000	0.0000e+000	-1.0000e+000
7	2.5000e-003	0.0000e+000	0.0000e+000	-1.0000e+000

### FORZE TIPO (Fase 1)

Condizione di carico: "Torcente di piano SLD" Tipo: "Torcente SLD"

Tipo	Fx	Fy	Fz	Mx	My	Mz
3	0.0000e+000	0.0000e+000	0.0000e+000	0.0000e+000	0.0000e+000	6.7430e+005

Condizione di carico: "Torcente di piano SLV" Tipo: "Torcente SLV"

Tipo	Fx	Fy	Fz	Mx	My	Mz
2	0.0000e+000	0.0000e+000	0.0000e+000	0.0000e+000	0.0000e+000	2.0240e+006
3	0.0000e+000	0.0000e+000	0.0000e+000	0.0000e+000	0.0000e+000	2.0240e+006

### MASSE TIPO (Fase 1)

Tipo	dn	md	dp
------	----	----	----

1	2.5484e-006	0.0000e+000	5.0000e-002
2	2.5484e-006	4.2813e-003	5.0000e-002
3	2.5484e-006	1.6911e-002	5.0000e-002

#### INFORMAZIONI - ANALISI "\_29" (Fase 1)

Equazioni.....	75
Semibanda.....	51
Numero blocchi.....	1
Zero algoritmico.....	7.7373e-007
Tempo totale analisi (sec).....	3.33e-002

#### SPOSTAMENTI NODALI "Torcente di piano SLD" (Fase 1)

Nodo	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000e+000	0.0000e+000	7.0764e-004	-1.0923e-006	1.1330e-005	0.0000e+000
2	0.0000e+000	0.0000e+000	-7.0764e-004	1.0923e-006	1.1330e-005	0.0000e+000
3	0.0000e+000	0.0000e+000	3.9989e-004	5.9980e-007	5.3709e-006	0.0000e+000
4	0.0000e+000	0.0000e+000	-3.9989e-004	-5.9980e-007	5.3709e-006	0.0000e+000
5	0.0000e+000	0.0000e+000	7.5222e-005	1.5564e-006	1.4468e-006	0.0000e+000
6	0.0000e+000	0.0000e+000	-7.5222e-005	-1.5564e-006	1.4468e-006	0.0000e+000
7	0.0000e+000	0.0000e+000	-7.5222e-005	1.5564e-006	-1.4468e-006	0.0000e+000
8	0.0000e+000	0.0000e+000	7.5222e-005	-1.5564e-006	-1.4468e-006	0.0000e+000
9	0.0000e+000	0.0000e+000	-3.9989e-004	5.9980e-007	-5.3709e-006	0.0000e+000
10	0.0000e+000	0.0000e+000	3.9989e-004	-5.9980e-007	-5.3709e-006	0.0000e+000
11	0.0000e+000	0.0000e+000	-7.0764e-004	-1.0923e-006	-1.1330e-005	0.0000e+000
12	0.0000e+000	0.0000e+000	7.0764e-004	1.0923e-006	-1.1330e-005	0.0000e+000
13	1.2548e-002	-3.4513e-003	7.2035e-004	1.0320e-006	3.2162e-005	1.1699e-005
14	1.2548e-002	3.4513e-003	-7.2035e-004	-1.0320e-006	3.2162e-005	1.1699e-005
15	9.4180e-003	-3.4513e-003	4.2329e-004	5.2658e-006	2.4249e-005	1.1699e-005
16	9.4180e-003	3.4513e-003	-4.2329e-004	-5.2658e-006	2.4249e-005	1.1699e-005
17	3.4513e-003	-3.4513e-003	8.1199e-005	6.3762e-006	8.9507e-006	1.1699e-005
18	3.4513e-003	3.4513e-003	-8.1199e-005	-6.3762e-006	8.9507e-006	1.1699e-005
19	-3.4513e-003	-3.4513e-003	-8.1199e-005	6.3762e-006	-8.9507e-006	1.1699e-005
20	-3.4513e-003	3.4513e-003	8.1199e-005	-6.3762e-006	-8.9507e-006	1.1699e-005
21	-9.4180e-003	-3.4513e-003	-4.2329e-004	5.2658e-006	-2.4249e-005	1.1699e-005
22	-9.4180e-003	3.4513e-003	4.2329e-004	-5.2658e-006	-2.4249e-005	1.1699e-005
23	-1.2548e-002	-3.4513e-003	-7.2035e-004	1.0320e-006	-3.2162e-005	1.1699e-005
24	-1.2548e-002	3.4513e-003	7.2035e-004	-1.0320e-006	-3.2162e-005	1.1699e-005
25	-1.3009e-018	2.4395e-019	0.0000e+000	0.0000e+000	0.0000e+000	1.1699e-005

#### SPOSTAMENTI NODALI "Torcente di piano SLV" (Fase 1)

Nodo	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000e+000	0.0000e+000	2.1241e-003	-3.2788e-006	3.4008e-005	0.0000e+000
2	0.0000e+000	0.0000e+000	-2.1241e-003	3.2788e-006	3.4008e-005	0.0000e+000
3	0.0000e+000	0.0000e+000	1.2003e-003	1.8004e-006	1.6122e-005	0.0000e+000
4	0.0000e+000	0.0000e+000	-1.2003e-003	-1.8004e-006	1.6122e-005	0.0000e+000
5	0.0000e+000	0.0000e+000	2.2579e-004	4.6719e-006	4.3427e-006	0.0000e+000
6	0.0000e+000	0.0000e+000	-2.2579e-004	-4.6719e-006	4.3427e-006	0.0000e+000
7	0.0000e+000	0.0000e+000	-2.2579e-004	4.6719e-006	-4.3427e-006	0.0000e+000
8	0.0000e+000	0.0000e+000	2.2579e-004	-4.6719e-006	-4.3427e-006	0.0000e+000
9	0.0000e+000	0.0000e+000	-1.2003e-003	1.8004e-006	-1.6122e-005	0.0000e+000
10	0.0000e+000	0.0000e+000	1.2003e-003	-1.8004e-006	-1.6122e-005	0.0000e+000
11	0.0000e+000	0.0000e+000	-2.1241e-003	-3.2788e-006	-3.4008e-005	0.0000e+000
12	0.0000e+000	0.0000e+000	2.1241e-003	3.2788e-006	-3.4008e-005	0.0000e+000
13	3.7664e-002	-1.0360e-002	2.1623e-003	3.0976e-006	9.6541e-005	3.5118e-005
14	3.7664e-002	1.0360e-002	-2.1623e-003	-3.0976e-006	9.6541e-005	3.5118e-005
15	2.8270e-002	-1.0360e-002	1.2706e-003	1.5806e-005	7.2786e-005	3.5118e-005
16	2.8270e-002	1.0360e-002	-1.2706e-003	-1.5806e-005	7.2786e-005	3.5118e-005
17	1.0360e-002	-1.0360e-002	2.4373e-004	1.9139e-005	2.6867e-005	3.5118e-005
18	1.0360e-002	1.0360e-002	-2.4373e-004	-1.9139e-005	2.6867e-005	3.5118e-005
19	-1.0360e-002	-1.0360e-002	-2.4373e-004	1.9139e-005	-2.6867e-005	3.5118e-005
20	-1.0360e-002	1.0360e-002	2.4373e-004	-1.9139e-005	-2.6867e-005	3.5118e-005
21	-2.8270e-002	-1.0360e-002	-1.2706e-003	1.5806e-005	-7.2786e-005	3.5118e-005
22	-2.8270e-002	1.0360e-002	1.2706e-003	-1.5806e-005	-7.2786e-005	3.5118e-005
23	-3.7664e-002	-1.0360e-002	-2.1623e-003	3.0976e-006	-9.6541e-005	3.5118e-005
24	-3.7664e-002	1.0360e-002	2.1623e-003	-3.0976e-006	-9.6541e-005	3.5118e-005
25	-5.2039e-018	6.5052e-019	0.0000e+000	0.0000e+000	0.0000e+000	3.5118e-005

#### SPOSTAMENTI NODALI "Accidentali" (Fase 1)

Nodo	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000e+000	0.0000e+000	-6.3608e-003	-4.0342e-007	-2.8733e-005	0.0000e+000
2	0.0000e+000	0.0000e+000	-6.3608e-003	-4.0342e-007	2.8733e-005	0.0000e+000
3	0.0000e+000	0.0000e+000	-7.2005e-003	6.1222e-006	-3.3536e-005	0.0000e+000
4	0.0000e+000	0.0000e+000	-7.2005e-003	6.1222e-006	3.3536e-005	0.0000e+000
5	0.0000e+000	0.0000e+000	-8.8256e-003	2.9661e-006	-3.9863e-005	0.0000e+000
6	0.0000e+000	0.0000e+000	-8.8256e-003	2.9661e-006	3.9863e-005	0.0000e+000
7	0.0000e+000	0.0000e+000	-8.8256e-003	-2.9661e-006	-3.9863e-005	0.0000e+000
8	0.0000e+000	0.0000e+000	-8.8256e-003	-2.9661e-006	3.9863e-005	0.0000e+000

9	0.0000e+000	0.0000e+000	-7.2005e-003	-6.1222e-006	-3.3536e-005	0.0000e+000
10	0.0000e+000	0.0000e+000	-7.2005e-003	-6.1222e-006	3.3536e-005	0.0000e+000
11	0.0000e+000	0.0000e+000	-6.3608e-003	4.0342e-007	-2.8733e-005	0.0000e+000
12	0.0000e+000	0.0000e+000	-6.3608e-003	4.0342e-007	2.8733e-005	0.0000e+000
13	2.3128e-018	-1.0880e-018	-6.9115e-003	-2.4707e-005	3.0770e-005	1.8992e-021
14	2.3128e-018	3.2524e-020	-6.9115e-003	-2.4707e-005	-3.0770e-005	1.8992e-021
15	1.8048e-018	-1.0880e-018	-8.7675e-003	-3.6300e-005	1.7690e-005	1.8992e-021
16	1.8048e-018	3.2524e-020	-8.7675e-003	-3.6300e-005	-1.7690e-005	1.8992e-021
17	8.3620e-019	-1.0880e-018	-1.0942e-002	-2.0715e-005	1.6788e-005	1.8992e-021
18	8.3620e-019	3.2524e-020	-1.0942e-002	-2.0715e-005	-1.6788e-005	1.8992e-021
19	-2.8434e-019	-1.0880e-018	-1.0942e-002	2.0715e-005	1.6788e-005	1.8992e-021
20	-2.8434e-019	3.2524e-020	-1.0942e-002	2.0715e-005	-1.6788e-005	1.8992e-021
21	-1.2529e-018	-1.0880e-018	-8.7675e-003	3.6300e-005	1.7690e-005	1.8992e-021
22	-1.2529e-018	3.2524e-020	-8.7675e-003	3.6300e-005	-1.7690e-005	1.8992e-021
23	-1.7610e-018	-1.0880e-018	-6.9115e-003	2.4707e-005	3.0770e-005	1.8992e-021
24	-1.7610e-018	3.2524e-020	-6.9115e-003	2.4707e-005	-3.0770e-005	1.8992e-021
25	2.7593e-019	-5.2774e-019	0.0000e+000	0.0000e+000	0.0000e+000	1.8992e-021

#### SPOSTAMENTI NODALI "Permanenti" (Fase 1)

Nodo	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000e+000	0.0000e+000	-8.7013e-002	5.8835e-005	-2.2135e-004	0.0000e+000
2	0.0000e+000	0.0000e+000	-8.7013e-002	5.8835e-005	2.2135e-004	0.0000e+000
3	0.0000e+000	0.0000e+000	-7.8849e-002	4.8730e-005	-2.6264e-004	0.0000e+000
4	0.0000e+000	0.0000e+000	-7.8849e-002	4.8730e-005	2.6264e-004	0.0000e+000
5	0.0000e+000	0.0000e+000	-8.5235e-002	1.2962e-005	-2.8043e-004	0.0000e+000
6	0.0000e+000	0.0000e+000	-8.5235e-002	1.2962e-005	2.8043e-004	0.0000e+000
7	0.0000e+000	0.0000e+000	-8.5235e-002	-1.2962e-005	-2.8043e-004	0.0000e+000
8	0.0000e+000	0.0000e+000	-8.5235e-002	-1.2962e-005	2.8043e-004	0.0000e+000
9	0.0000e+000	0.0000e+000	-7.8849e-002	-4.8730e-005	-2.6264e-004	0.0000e+000
10	0.0000e+000	0.0000e+000	-7.8849e-002	-4.8730e-005	2.6264e-004	0.0000e+000
11	0.0000e+000	0.0000e+000	-8.7013e-002	-5.8835e-005	-2.2135e-004	0.0000e+000
12	0.0000e+000	0.0000e+000	-8.7013e-002	-5.8835e-005	2.2135e-004	0.0000e+000
13	6.1779e-017	-2.5120e-017	-9.0754e-002	-7.5703e-005	2.8506e-004	4.1266e-020
14	6.1779e-017	-7.7248e-019	-9.0754e-002	-7.5703e-005	-2.8506e-004	4.1266e-020
15	5.0740e-017	-2.5120e-017	-8.7277e-002	-1.5105e-004	3.9643e-004	4.1266e-020
16	5.0740e-017	-7.7248e-019	-8.7277e-002	-1.5105e-004	-3.9643e-004	4.1266e-020
17	2.9694e-017	-2.5120e-017	-9.5990e-002	-9.3375e-005	4.2702e-004	4.1266e-020
18	2.9694e-017	-7.7248e-019	-9.5990e-002	-9.3375e-005	-4.2702e-004	4.1266e-020
19	5.3472e-018	-2.5120e-017	-9.5990e-002	9.3375e-005	4.2702e-004	4.1266e-020
20	5.3472e-018	-7.7248e-019	-9.5990e-002	9.3375e-005	-4.2702e-004	4.1266e-020
21	-1.5699e-017	-2.5120e-017	-8.7277e-002	1.5105e-004	3.9643e-004	4.1266e-020
22	-1.5699e-017	-7.7248e-019	-8.7277e-002	1.5105e-004	-3.9643e-004	4.1266e-020
23	-2.6737e-017	-2.5120e-017	-9.0754e-002	7.5703e-005	2.8506e-004	4.1266e-020
24	-2.6737e-017	-7.7248e-019	-9.0754e-002	7.5703e-005	-2.8506e-004	4.1266e-020
25	1.7521e-017	-1.2946e-017	0.0000e+000	0.0000e+000	0.0000e+000	4.1266e-020

#### SFORZI "Torcente di piano SLD" (Fase 1)

Elem	Nodo	N	Vy	Vz	Mx	My	Mz
1	2	1.4343e+001	-1.0322e+002	-1.9158e+001	-9.9076e+002	3.5255e+003	-2.3223e+004
	14	-1.4343e+001	1.0322e+002	1.9158e+001	9.9076e+002	3.2757e+003	-1.3421e+004
2	1	-1.4343e+001	-1.0322e+002	1.9158e+001	-9.9076e+002	-3.5255e+003	-2.3223e+004
	13	1.4343e+001	1.0322e+002	-1.9158e+001	9.9076e+002	-3.2757e+003	-1.3421e+004
3	3	-2.6426e+001	-2.3024e+001	5.1532e+001	-9.9076e+002	-1.0244e+004	-5.1969e+003
	15	2.6426e+001	2.3024e+001	-5.1532e+001	9.9076e+002	-8.0493e+003	-2.9766e+003
4	4	2.6426e+001	-2.3024e+001	-5.1532e+001	-9.9076e+002	1.0244e+004	-5.1969e+003
	16	-2.6426e+001	2.3024e+001	5.1532e+001	9.9076e+002	8.0493e+003	-2.9766e+003
5	5	-6.7481e+000	-8.8862e+000	4.3687e+001	-9.9076e+002	-8.8882e+003	-2.0186e+003
	17	6.7481e+000	8.8862e+000	-4.3687e+001	9.9076e+002	-6.6207e+003	-1.1360e+003
6	6	6.7481e+000	-8.8862e+000	-4.3687e+001	-9.9076e+002	8.8882e+003	-2.0186e+003
	18	-6.7481e+000	8.8862e+000	4.3687e+001	9.9076e+002	6.6207e+003	-1.1360e+003
7	12	-1.4343e+001	1.0322e+002	-1.9158e+001	-9.9076e+002	3.5255e+003	2.3223e+004
	24	1.4343e+001	-1.0322e+002	1.9158e+001	9.9076e+002	3.2757e+003	1.3421e+004
8	10	-2.6426e+001	2.3024e+001	-5.1532e+001	-9.9076e+002	1.0244e+004	5.1969e+003
	22	2.6426e+001	-2.3024e+001	5.1532e+001	9.9076e+002	-8.0493e+003	2.9766e+003
9	8	-6.7481e+000	8.8862e+000	-4.3687e+001	-9.9076e+002	8.8882e+003	2.0186e+003
	20	6.7481e+000	-8.8862e+000	4.3687e+001	9.9076e+002	-6.6207e+003	1.1360e+003
10	7	6.7481e+000	8.8862e+000	4.3687e+001	-9.9076e+002	-8.8882e+003	2.0186e+003
	19	-6.7481e+000	-8.8862e+000	-4.3687e+001	9.9076e+002	-6.6207e+003	1.1360e+003
11	9	2.6426e+001	2.3024e+001	5.1532e+001	-9.9076e+002	-1.0244e+004	5.1969e+003
	21	-2.6426e+001	-2.3024e+001	-5.1532e+001	9.9076e+002	-8.0493e+003	2.9766e+003
12	11	1.4343e+001	1.0322e+002	1.9158e+001	-9.9076e+002	-3.5255e+003	2.3223e+004
	23	-1.4343e+001	-1.0322e+002	-1.9158e+001	9.9076e+002	-3.2757e+003	1.3421e+004

13	14	0.0000e+000	4.3328e+001	0.0000e+000	7.5625e+001	-5.1159e-013	1.2782e+004
	13	0.0000e+000	-4.3328e+001	0.0000e+000	-7.5625e+001	-5.1159e-013	1.2782e+004
14	16	0.0000e+000	1.0060e+001	0.0000e+000	3.7092e+002	0.0000e+000	2.9677e+003
	15	0.0000e+000	-1.0060e+001	0.0000e+000	-3.7092e+002	0.0000e+000	2.9677e+003
15	18	0.0000e+000	3.8255e+000	0.0000e+000	4.4913e+002	0.0000e+000	1.1285e+003
	17	0.0000e+000	-3.8255e+000	0.0000e+000	-4.4913e+002	0.0000e+000	1.1285e+003
16	20	0.0000e+000	-3.8255e+000	0.0000e+000	4.4913e+002	0.0000e+000	-1.1285e+003
	19	0.0000e+000	3.8255e+000	0.0000e+000	-4.4913e+002	0.0000e+000	-1.1285e+003
17	22	0.0000e+000	-1.0060e+001	0.0000e+000	3.7092e+002	0.0000e+000	-2.9677e+003
	21	0.0000e+000	1.0060e+001	0.0000e+000	-3.7092e+002	0.0000e+000	-2.9677e+003
18	24	0.0000e+000	-4.3328e+001	0.0000e+000	7.5625e+001	-5.1159e-013	-1.2782e+004
	23	0.0000e+000	4.3328e+001	0.0000e+000	-7.5625e+001	-5.1159e-013	-1.2782e+004
19	16	0.0000e+000	2.8985e+001	1.4211e-014	6.3957e+002	0.0000e+000	4.5535e+003
	14	0.0000e+000	-2.8985e+001	-1.4211e-014	-6.3957e+002	0.0000e+000	3.2001e+003
20	18	0.0000e+000	1.2619e+001	1.7764e-015	6.4846e+002	0.0000e+000	3.3110e+003
	16	0.0000e+000	-1.2619e+001	-1.7764e-015	-6.4846e+002	4.5475e-013	3.1249e+003
21	20	0.0000e+000	9.6968e+000	0.0000e+000	6.5593e+002	-5.1159e-013	2.8605e+003
	18	0.0000e+000	-9.6968e+000	0.0000e+000	-6.5593e+002	-5.1159e-013	2.8605e+003
22	22	0.0000e+000	1.2619e+001	1.7764e-015	6.4846e+002	4.5475e-013	3.1249e+003
	20	0.0000e+000	-1.2619e+001	-1.7764e-015	-6.4846e+002	0.0000e+000	3.3110e+003
23	24	0.0000e+000	2.8985e+001	1.4211e-014	6.3957e+002	0.0000e+000	3.2001e+003
	22	0.0000e+000	-2.8985e+001	-1.4211e-014	-6.3957e+002	0.0000e+000	4.5535e+003
24	15	0.0000e+000	-2.8985e+001	1.4211e-014	6.3957e+002	0.0000e+000	-4.5535e+003
	13	0.0000e+000	2.8985e+001	-1.4211e-014	-6.3957e+002	0.0000e+000	-3.2001e+003
25	17	0.0000e+000	-1.2619e+001	1.7764e-015	6.4846e+002	0.0000e+000	-3.3110e+003
	15	0.0000e+000	1.2619e+001	-1.7764e-015	-6.4846e+002	4.5475e-013	-3.1249e+003
26	19	0.0000e+000	-9.6968e+000	0.0000e+000	6.5593e+002	-5.1159e-013	-2.8605e+003
	17	0.0000e+000	9.6968e+000	0.0000e+000	-6.5593e+002	-5.1159e-013	-2.8605e+003
27	21	0.0000e+000	-1.2619e+001	1.7764e-015	6.4846e+002	4.5475e-013	-3.1249e+003
	19	0.0000e+000	1.2619e+001	-1.7764e-015	-6.4846e+002	0.0000e+000	-3.3110e+003
28	23	0.0000e+000	-2.8985e+001	1.4211e-014	6.3957e+002	0.0000e+000	-3.2001e+003
	21	0.0000e+000	2.8985e+001	-1.4211e-014	-6.3957e+002	0.0000e+000	-4.5535e+003
29	2	0.0000e+000	5.3249e+001	0.0000e+000	-8.0375e+002	0.0000e+000	1.8301e+004
	1	0.0000e+000	-5.3249e+001	0.0000e+000	8.0375e+002	0.0000e+000	1.8301e+004
30	4	0.0000e+000	1.9478e+001	0.0000e+000	4.4134e+002	0.0000e+000	8.0129e+003
	3	0.0000e+000	-1.9478e+001	0.0000e+000	-4.4134e+002	0.0000e+000	8.0129e+003
31	6	0.0000e+000	8.1550e+000	0.0000e+000	1.1453e+003	0.0000e+000	2.4928e+003
	5	0.0000e+000	-8.1550e+000	0.0000e+000	-1.1453e+003	0.0000e+000	2.4928e+003
32	8	0.0000e+000	-8.1550e+000	0.0000e+000	1.1453e+003	0.0000e+000	-2.4928e+003
	7	0.0000e+000	8.1550e+000	0.0000e+000	-1.1453e+003	0.0000e+000	-2.4928e+003
33	10	0.0000e+000	-1.9478e+001	0.0000e+000	4.4134e+002	0.0000e+000	-8.0129e+003
	9	0.0000e+000	1.9478e+001	0.0000e+000	-4.4134e+002	0.0000e+000	-8.0129e+003
34	12	0.0000e+000	-5.3249e+001	0.0000e+000	-8.0375e+002	0.0000e+000	-1.8301e+004
	11	0.0000e+000	5.3249e+001	0.0000e+000	8.0375e+002	0.0000e+000	-1.8301e+004
35	4	0.0000e+000	2.4103e+000	0.0000e+000	4.6014e+003	0.0000e+000	4.0158e+003
	2	0.0000e+000	-6.7592e+001	0.0000e+000	-4.9218e+003	0.0000e+000	4.3293e+003
36	6	0.0000e+000	7.8447e+000	0.0000e+000	1.5388e+003	0.0000e+000	3.4545e+003
	4	0.0000e+000	-4.8314e+001	0.0000e+000	-1.7855e+003	0.0000e+000	5.7874e+003
37	8	0.0000e+000	2.2748e+001	0.0000e+000	1.0645e+003	0.0000e+000	4.2885e+003
	6	0.0000e+000	-2.2748e+001	0.0000e+000	-1.0645e+003	0.0000e+000	4.2885e+003
38	10	0.0000e+000	4.8314e+001	0.0000e+000	1.7855e+003	0.0000e+000	5.7874e+003
	8	0.0000e+000	-7.8447e+000	0.0000e+000	-1.5388e+003	0.0000e+000	3.4545e+003
39	12	0.0000e+000	6.7592e+001	0.0000e+000	4.9218e+003	0.0000e+000	4.3293e+003
	10	0.0000e+000	-2.4103e+000	0.0000e+000	-4.6014e+003	0.0000e+000	4.0158e+003
40	3	0.0000e+000	-2.4103e+000	0.0000e+000	4.6014e+003	0.0000e+000	-4.0158e+003
	1	0.0000e+000	6.7592e+001	0.0000e+000	-4.9218e+003	0.0000e+000	-4.3293e+003
41	5	0.0000e+000	-7.8447e+000	0.0000e+000	1.5388e+003	0.0000e+000	-3.4545e+003
	3	0.0000e+000	4.8314e+001	0.0000e+000	-1.7855e+003	0.0000e+000	-5.7874e+003
42	7	0.0000e+000	-2.2748e+001	0.0000e+000	1.0645e+003	0.0000e+000	-4.2885e+003
	5	0.0000e+000	2.2748e+001	0.0000e+000	-1.0645e+003	0.0000e+000	-4.2885e+003
43	9	0.0000e+000	-4.8314e+001	0.0000e+000	1.7855e+003	0.0000e+000	-5.7874e+003
	7	0.0000e+000	7.8447e+000	0.0000e+000	-1.5388e+003	0.0000e+000	-3.4545e+003



44	11	0.0000e+000	-6.7592e+001	0.0000e+000	4.9218e+003	0.0000e+000	-4.3293e+003
	9	0.0000e+000	2.4103e+000	0.0000e+000	-4.6014e+003	0.0000e+000	-4.0158e+003

### SFORZI "Torcente di piano SLV" (Fase 1)

Elem	Nodo	N	Vy	Vz	Mx	My	Mz
1	2	4.3052e+001	-3.0984e+002	-5.7507e+001	-2.9739e+003	1.0583e+004	-6.9707e+004
	14	-4.3052e+001	3.0984e+002	5.7507e+001	2.9739e+003	9.8326e+003	-4.0287e+004
2	1	-4.3052e+001	-3.0984e+002	5.7507e+001	-2.9739e+003	-1.0583e+004	-6.9707e+004
	13	4.3052e+001	3.0984e+002	-5.7507e+001	2.9739e+003	-9.8326e+003	-4.0287e+004
3	3	-7.9322e+001	-6.9111e+001	1.5468e+002	-2.9739e+003	-3.0751e+004	-1.5599e+004
	15	7.9322e+001	6.9111e+001	-1.5468e+002	2.9739e+003	-2.4161e+004	-8.9347e+003
4	4	7.9322e+001	-6.9111e+001	-1.5468e+002	-2.9739e+003	3.0751e+004	-1.5599e+004
	16	-7.9322e+001	6.9111e+001	1.5468e+002	2.9739e+003	2.4161e+004	-8.9347e+003
5	5	-2.0256e+001	-2.6673e+001	1.3114e+002	-2.9739e+003	-2.6680e+004	-6.0592e+003
	17	2.0256e+001	2.6673e+001	-1.3114e+002	2.9739e+003	-1.9873e+004	-3.4099e+003
6	6	2.0256e+001	-2.6673e+001	-1.3114e+002	-2.9739e+003	2.6680e+004	-6.0592e+003
	18	-2.0256e+001	2.6673e+001	1.3114e+002	2.9739e+003	1.9873e+004	-3.4099e+003
7	12	-4.3052e+001	3.0984e+002	-5.7507e+001	-2.9739e+003	1.0583e+004	6.9707e+004
	24	4.3052e+001	-3.0984e+002	5.7507e+001	2.9739e+003	9.8326e+003	4.0287e+004
8	10	-7.9322e+001	6.9111e+001	-1.5468e+002	-2.9739e+003	3.0751e+004	1.5599e+004
	22	7.9322e+001	-6.9111e+001	1.5468e+002	2.9739e+003	2.4161e+004	8.9347e+003
9	8	-2.0256e+001	2.6673e+001	-1.3114e+002	-2.9739e+003	2.6680e+004	6.0592e+003
	20	2.0256e+001	-2.6673e+001	1.3114e+002	2.9739e+003	1.9873e+004	3.4099e+003
10	7	2.0256e+001	2.6673e+001	1.3114e+002	-2.9739e+003	-2.6680e+004	6.0592e+003
	19	-2.0256e+001	-2.6673e+001	-1.3114e+002	2.9739e+003	-1.9873e+004	3.4099e+003
11	9	7.9322e+001	6.9111e+001	1.5468e+002	-2.9739e+003	-3.0751e+004	1.5599e+004
	21	-7.9322e+001	-6.9111e+001	-1.5468e+002	2.9739e+003	-2.4161e+004	8.9347e+003
12	11	4.3052e+001	3.0984e+002	5.7507e+001	-2.9739e+003	-1.0583e+004	6.9707e+004
	23	-4.3052e+001	-3.0984e+002	-5.7507e+001	2.9739e+003	-9.8326e+003	4.0287e+004
13	14	0.0000e+000	1.3006e+002	0.0000e+000	2.2700e+002	-1.4779e-012	3.8367e+004
	13	0.0000e+000	-1.3006e+002	0.0000e+000	-2.2700e+002	-1.4779e-012	3.8367e+004
14	16	0.0000e+000	3.0197e+001	0.0000e+000	1.1134e+003	0.0000e+000	8.9081e+003
	15	0.0000e+000	-3.0197e+001	0.0000e+000	-1.1134e+003	0.0000e+000	8.9081e+003
15	18	0.0000e+000	1.1483e+001	0.0000e+000	1.3482e+003	0.0000e+000	3.3875e+003
	17	0.0000e+000	-1.1483e+001	0.0000e+000	-1.3482e+003	0.0000e+000	3.3875e+003
16	20	0.0000e+000	-1.1483e+001	0.0000e+000	1.3482e+003	0.0000e+000	-3.3875e+003
	19	0.0000e+000	1.1483e+001	0.0000e+000	-1.3482e+003	0.0000e+000	-3.3875e+003
17	22	0.0000e+000	-3.0197e+001	0.0000e+000	1.1134e+003	0.0000e+000	-8.9081e+003
	21	0.0000e+000	3.0197e+001	0.0000e+000	-1.1134e+003	0.0000e+000	-8.9081e+003
18	24	0.0000e+000	-1.3006e+002	0.0000e+000	2.2700e+002	-1.4779e-012	-3.8367e+004
	23	0.0000e+000	1.3006e+002	0.0000e+000	-2.2700e+002	-1.4779e-012	-3.8367e+004
19	16	0.0000e+000	8.7005e+001	5.6843e-014	1.9198e+003	0.0000e+000	1.3668e+004
	14	0.0000e+000	-8.7005e+001	-5.6843e-014	-1.9198e+003	0.0000e+000	9.6056e+003
20	18	0.0000e+000	3.7879e+001	3.5527e-015	1.9465e+003	0.0000e+000	9.9387e+003
	16	0.0000e+000	-3.7879e+001	-3.5527e-015	-1.9465e+003	9.0949e-013	9.3798e+003
21	20	0.0000e+000	2.9107e+001	0.0000e+000	1.9689e+003	-1.4779e-012	8.5865e+003
	18	0.0000e+000	-2.9107e+001	0.0000e+000	-1.9689e+003	-1.4779e-012	8.5865e+003
22	22	0.0000e+000	3.7879e+001	3.5527e-015	1.9465e+003	9.0949e-013	9.3798e+003
	20	0.0000e+000	-3.7879e+001	-3.5527e-015	-1.9465e+003	0.0000e+000	9.9387e+003
23	24	0.0000e+000	8.7005e+001	5.6843e-014	1.9198e+003	0.0000e+000	9.6056e+003
	22	0.0000e+000	-8.7005e+001	-5.6843e-014	-1.9198e+003	0.0000e+000	1.3668e+004
24	15	0.0000e+000	-8.7005e+001	5.6843e-014	1.9198e+003	0.0000e+000	-1.3668e+004
	13	0.0000e+000	8.7005e+001	-5.6843e-014	-1.9198e+003	0.0000e+000	-9.6056e+003
25	17	0.0000e+000	-3.7879e+001	3.5527e-015	1.9465e+003	0.0000e+000	-9.9387e+003
	15	0.0000e+000	3.7879e+001	-3.5527e-015	-1.9465e+003	9.0949e-013	-9.3798e+003
26	19	0.0000e+000	-2.9107e+001	0.0000e+000	1.9689e+003	-1.4779e-012	-8.5865e+003
	17	0.0000e+000	2.9107e+001	0.0000e+000	-1.9689e+003	-1.4779e-012	-8.5865e+003
27	21	0.0000e+000	-3.7879e+001	3.5527e-015	1.9465e+003	9.0949e-013	-9.3798e+003
	19	0.0000e+000	3.7879e+001	-3.5527e-015	-1.9465e+003	0.0000e+000	-9.9387e+003
28	23	0.0000e+000	-8.7005e+001	5.6843e-014	1.9198e+003	0.0000e+000	-9.6056e+003
	21	0.0000e+000	8.7005e+001	-5.6843e-014	-1.9198e+003	0.0000e+000	-1.3668e+004
29	2	0.0000e+000	1.5984e+002	0.0000e+000	-2.4126e+003	0.0000e+000	5.4933e+004

	1	0.0000e+000	-1.5984e+002	0.0000e+000	2.4126e+003	0.0000e+000	5.4933e+004
30	4	0.0000e+000	5.8467e+001	0.0000e+000	1.3248e+003	0.0000e+000	2.4052e+004
	3	0.0000e+000	-5.8467e+001	0.0000e+000	-1.3248e+003	0.0000e+000	2.4052e+004
31	6	0.0000e+000	2.4479e+001	0.0000e+000	3.4377e+003	0.0000e+000	7.4826e+003
	5	0.0000e+000	-2.4479e+001	0.0000e+000	-3.4377e+003	0.0000e+000	7.4826e+003
32	8	0.0000e+000	-2.4479e+001	0.0000e+000	3.4377e+003	0.0000e+000	-7.4826e+003
	7	0.0000e+000	2.4479e+001	0.0000e+000	-3.4377e+003	0.0000e+000	-7.4826e+003
33	10	0.0000e+000	-5.8467e+001	0.0000e+000	1.3248e+003	0.0000e+000	-2.4052e+004
	9	0.0000e+000	5.8467e+001	0.0000e+000	-1.3248e+003	0.0000e+000	-2.4052e+004
34	12	0.0000e+000	-1.5984e+002	0.0000e+000	-2.4126e+003	0.0000e+000	-5.4933e+004
	11	0.0000e+000	1.5984e+002	0.0000e+000	2.4126e+003	0.0000e+000	-5.4933e+004
35	4	0.0000e+000	7.2350e+000	0.0000e+000	1.3812e+004	0.0000e+000	1.2054e+004
	2	0.0000e+000	-2.0289e+002	0.0000e+000	-1.4774e+004	0.0000e+000	1.2995e+004
36	6	0.0000e+000	2.3547e+001	0.0000e+000	4.6188e+003	0.0000e+000	1.0369e+004
	4	0.0000e+000	-1.4502e+002	0.0000e+000	-5.3595e+003	0.0000e+000	1.7372e+004
37	8	0.0000e+000	6.8282e+001	0.0000e+000	3.1954e+003	0.0000e+000	1.2873e+004
	6	0.0000e+000	-6.8282e+001	0.0000e+000	-3.1954e+003	0.0000e+000	1.2873e+004
38	10	0.0000e+000	1.4502e+002	0.0000e+000	5.3595e+003	0.0000e+000	1.7372e+004
	8	0.0000e+000	-2.3547e+001	0.0000e+000	-4.6188e+003	0.0000e+000	1.0369e+004
39	12	0.0000e+000	2.0289e+002	0.0000e+000	1.4774e+004	0.0000e+000	1.2995e+004
	10	0.0000e+000	-7.2350e+000	0.0000e+000	-1.3812e+004	0.0000e+000	1.2054e+004
40	3	0.0000e+000	-7.2350e+000	0.0000e+000	1.3812e+004	0.0000e+000	-1.2054e+004
	1	0.0000e+000	2.0289e+002	0.0000e+000	-1.4774e+004	0.0000e+000	-1.2995e+004
41	5	0.0000e+000	-2.3547e+001	0.0000e+000	4.6188e+003	0.0000e+000	-1.0369e+004
	3	0.0000e+000	1.4502e+002	0.0000e+000	-5.3595e+003	0.0000e+000	-1.7372e+004
42	7	0.0000e+000	-6.8282e+001	0.0000e+000	3.1954e+003	0.0000e+000	-1.2873e+004
	5	0.0000e+000	6.8282e+001	0.0000e+000	-3.1954e+003	0.0000e+000	-1.2873e+004
43	9	0.0000e+000	-1.4502e+002	0.0000e+000	5.3595e+003	0.0000e+000	-1.7372e+004
	7	0.0000e+000	2.3547e+001	0.0000e+000	-4.6188e+003	0.0000e+000	-1.0369e+004
44	11	0.0000e+000	-2.0289e+002	0.0000e+000	1.4774e+004	0.0000e+000	-1.2995e+004
	9	0.0000e+000	7.2350e+000	0.0000e+000	-1.3812e+004	0.0000e+000	-1.2054e+004

#### SFORZI "Accidentali" (Fase 1)

Elem	Nodo	N	Vy	Vz	Mx	My	Mz
1	2	6.2181e+002	-7.7313e+000	2.4665e+001	-1.6083e-013	-2.9487e+003	1.2625e+004
	14	-6.2181e+002	7.7313e+000	-2.4665e+001	1.6083e-013	-5.8072e+003	-1.5369e+004
2	1	6.2181e+002	7.7313e+000	2.4665e+001	-1.6083e-013	-2.9487e+003	-1.2625e+004
	13	-6.2181e+002	-7.7313e+000	-2.4665e+001	1.6083e-013	-5.8072e+003	1.5369e+004
3	3	1.7693e+003	-1.5565e+001	1.1453e+002	-1.6083e-013	-1.0350e+004	-5.7754e+003
	15	-1.7693e+003	1.5565e+001	-1.1453e+002	1.6083e-013	-3.0308e+004	2.4967e+002
4	4	1.7693e+003	1.5565e+001	1.1453e+002	-1.6083e-013	-1.0350e+004	5.7754e+003
	16	-1.7693e+003	-1.5565e+001	-1.1453e+002	1.6083e-013	-3.0308e+004	-2.4967e+002
5	5	2.3901e+003	-2.2666e+001	6.7360e+001	-1.6083e-013	-6.3857e+003	-7.3548e+003
	17	-2.3901e+003	2.2666e+001	-6.7360e+001	1.6083e-013	-1.7527e+004	-6.9170e+002
6	6	2.3901e+003	2.2666e+001	6.7360e+001	-1.6083e-013	-6.3857e+003	7.3548e+003
	18	-2.3901e+003	-2.2666e+001	-6.7360e+001	1.6083e-013	-1.7527e+004	6.9170e+002
7	12	6.2181e+002	-7.7313e+000	-2.4665e+001	-1.6083e-013	2.9487e+003	1.2625e+004
	24	-6.2181e+002	7.7313e+000	2.4665e+001	1.6083e-013	5.8072e+003	-1.5369e+004
8	10	1.7693e+003	1.5565e+001	-1.1453e+002	-1.6083e-013	1.0350e+004	5.7754e+003
	22	-1.7693e+003	-1.5565e+001	1.1453e+002	1.6083e-013	3.0308e+004	-2.4967e+002
9	8	2.3901e+003	2.2666e+001	-6.7360e+001	-1.6083e-013	6.3857e+003	7.3548e+003
	20	-2.3901e+003	-2.2666e+001	6.7360e+001	1.6083e-013	1.7527e+004	6.9170e+002
10	7	2.3901e+003	-2.2666e+001	-6.7360e+001	-1.6083e-013	6.3857e+003	-7.3548e+003
	19	-2.3901e+003	2.2666e+001	6.7360e+001	1.6083e-013	1.7527e+004	-6.9170e+002
11	9	1.7693e+003	-1.5565e+001	-1.1453e+002	-1.6083e-013	1.0350e+004	-5.7754e+003
	21	-1.7693e+003	1.5565e+001	1.1453e+002	1.6083e-013	3.0308e+004	2.4967e+002
12	11	6.2181e+002	7.7313e+000	-2.4665e+001	-1.6083e-013	2.9487e+003	-1.2625e+004
	23	-6.2181e+002	-7.7313e+000	2.4665e+001	1.6083e-013	5.8072e+003	1.5369e+004
13	14	0.0000e+000	2.1240e+002	0.0000e+000	-1.0232e-012	-9.4663e-029	1.6426e+004
	13	0.0000e+000	2.1240e+002	0.0000e+000	1.0232e-012	-8.8352e-029	-1.6426e+004
14	16	0.0000e+000	3.1086e-015	0.0000e+000	0.0000e+000	-5.0487e-029	-7.6917e+002

	15	0.0000e+000	-3.1086e-015	0.0000e+000	0.0000e+000	5.0487e-029	7.6917e+002
15	18	0.0000e+000	-1.7764e-015	0.0000e+000	3.4106e-013	-5.0487e-029	-7.2994e+002
	17	0.0000e+000	1.7764e-015	0.0000e+000	-3.4106e-013	5.0487e-029	7.2994e+002
16	20	0.0000e+000	5.3291e-015	0.0000e+000	-4.5475e-013	-5.0487e-029	-7.2994e+002
	19	0.0000e+000	-5.3291e-015	0.0000e+000	4.5475e-013	5.0487e-029	7.2994e+002
17	22	0.0000e+000	2.2204e-015	0.0000e+000	2.2737e-013	-5.0487e-029	-7.6917e+002
	21	0.0000e+000	-2.2204e-015	0.0000e+000	-2.2737e-013	5.0487e-029	7.6917e+002
18	24	0.0000e+000	2.1240e+002	0.0000e+000	0.0000e+000	-9.4663e-029	1.6426e+004
	23	0.0000e+000	2.1240e+002	0.0000e+000	0.0000e+000	-8.8352e-029	-1.6426e+004
19	16	0.0000e+000	7.3014e+002	6.3109e-030	-1.0571e+003	0.0000e+000	4.8704e+004
	14	0.0000e+000	4.0941e+002	-6.3109e-030	1.0571e+003	0.0000e+000	-5.8072e+003
20	18	0.0000e+000	1.1334e+003	3.9443e-031	-3.8241e+001	0.0000e+000	1.0305e+005
	16	0.0000e+000	1.0392e+003	-3.9443e-031	3.8241e+001	5.0487e-029	-7.9012e+004
21	20	0.0000e+000	1.2567e+003	0.0000e+000	0.0000e+000	-6.9420e-029	1.2057e+005
	18	0.0000e+000	1.2567e+003	0.0000e+000	0.0000e+000	-8.2042e-029	-1.2057e+005
22	22	0.0000e+000	1.0392e+003	1.9722e-031	3.8241e+001	5.0487e-029	7.9012e+004
	20	0.0000e+000	1.1334e+003	-1.9722e-031	-3.8241e+001	0.0000e+000	-1.0305e+005
23	24	0.0000e+000	4.0941e+002	6.3109e-030	1.0571e+003	0.0000e+000	5.8072e+003
	22	0.0000e+000	7.3014e+002	-6.3109e-030	-1.0571e+003	0.0000e+000	-4.8704e+004
24	15	-1.0097e-028	7.3014e+002	6.3109e-030	1.0571e+003	0.0000e+000	4.8704e+004
	13	1.0097e-028	4.0941e+002	-6.3109e-030	-1.0571e+003	0.0000e+000	-5.8072e+003
25	17	0.0000e+000	1.1334e+003	3.9443e-031	3.8241e+001	0.0000e+000	1.0305e+005
	15	0.0000e+000	1.0392e+003	-3.9443e-031	-3.8241e+001	5.0487e-029	-7.9012e+004
26	19	-5.0487e-029	1.2567e+003	0.0000e+000	2.2737e-013	-6.9420e-029	1.2057e+005
	17	5.0487e-029	1.2567e+003	0.0000e+000	-2.2737e-013	-8.2042e-029	-1.2057e+005
27	21	0.0000e+000	1.0392e+003	1.9722e-031	-3.8241e+001	5.0487e-029	7.9012e+004
	19	0.0000e+000	1.1334e+003	-1.9722e-031	3.8241e+001	0.0000e+000	-1.0305e+005
28	23	-1.0097e-028	4.0941e+002	6.3109e-030	-1.0571e+003	0.0000e+000	5.8072e+003
	21	1.0097e-028	7.3014e+002	-6.3109e-030	1.0571e+003	0.0000e+000	-4.8704e+004
29	2	0.0000e+000	-4.0137e+002	0.0000e+000	1.6809e+001	0.0000e+000	-9.3831e+003
	1	0.0000e+000	-4.0137e+002	0.0000e+000	1.6809e+001	0.0000e+000	9.3831e+003
30	4	0.0000e+000	-4.4491e+002	0.0000e+000	-2.5508e+002	0.0000e+000	-8.8598e+003
	3	0.0000e+000	-4.4491e+002	0.0000e+000	-2.5508e+002	0.0000e+000	8.8598e+003
31	6	0.0000e+000	-5.5692e+002	0.0000e+000	-1.2358e+002	0.0000e+000	-1.3024e+004
	5	0.0000e+000	-5.5692e+002	0.0000e+000	-1.2358e+002	0.0000e+000	1.3024e+004
32	8	0.0000e+000	-5.5692e+002	0.0000e+000	1.2358e+002	0.0000e+000	-1.3024e+004
	7	0.0000e+000	-5.5692e+002	0.0000e+000	1.2358e+002	0.0000e+000	1.3024e+004
33	10	0.0000e+000	-4.4491e+002	0.0000e+000	2.5508e+002	0.0000e+000	-8.8598e+003
	9	0.0000e+000	-4.4491e+002	0.0000e+000	2.5508e+002	0.0000e+000	8.8598e+003
34	12	0.0000e+000	-4.0137e+002	0.0000e+000	-1.6809e+001	0.0000e+000	-9.3831e+003
	11	0.0000e+000	-4.0137e+002	0.0000e+000	-1.6809e+001	0.0000e+000	9.3831e+003
35	4	0.0000e+000	-6.5400e+002	0.0000e+000	-4.4360e+003	0.0000e+000	-5.1706e+004
	2	0.0000e+000	-2.2044e+002	0.0000e+000	3.2416e+003	0.0000e+000	-2.9655e+003
36	6	0.0000e+000	-9.3132e+002	0.0000e+000	-4.0080e+003	0.0000e+000	-8.3602e+004
	4	0.0000e+000	-6.7040e+002	0.0000e+000	1.3516e+003	0.0000e+000	4.1612e+004
37	8	0.0000e+000	-9.0188e+002	0.0000e+000	-1.6609e+003	0.0000e+000	-7.7340e+004
	6	0.0000e+000	-9.0188e+002	0.0000e+000	-1.6609e+003	0.0000e+000	7.7340e+004
38	10	0.0000e+000	-6.7040e+002	0.0000e+000	1.3516e+003	0.0000e+000	-4.1612e+004
	8	0.0000e+000	-9.3132e+002	0.0000e+000	-4.0080e+003	0.0000e+000	8.3602e+004
39	12	0.0000e+000	-2.2044e+002	0.0000e+000	3.2416e+003	0.0000e+000	2.9655e+003
	10	0.0000e+000	-6.5400e+002	0.0000e+000	-4.4360e+003	0.0000e+000	5.1706e+004
40	3	0.0000e+000	-6.5400e+002	0.0000e+000	4.4360e+003	0.0000e+000	-5.1706e+004
	1	0.0000e+000	-2.2044e+002	0.0000e+000	-3.2416e+003	0.0000e+000	-2.9655e+003
41	5	0.0000e+000	-9.3132e+002	0.0000e+000	4.0080e+003	0.0000e+000	-8.3602e+004
	3	0.0000e+000	-6.7040e+002	0.0000e+000	-1.3516e+003	0.0000e+000	4.1612e+004
42	7	0.0000e+000	-9.0188e+002	0.0000e+000	1.6609e+003	0.0000e+000	-7.7340e+004
	5	0.0000e+000	-9.0188e+002	0.0000e+000	1.6609e+003	0.0000e+000	7.7340e+004
43	9	0.0000e+000	-6.7040e+002	0.0000e+000	-1.3516e+003	0.0000e+000	-4.1612e+004
	7	0.0000e+000	-9.3132e+002	0.0000e+000	4.0080e+003	0.0000e+000	8.3602e+004
44	11	0.0000e+000	-2.2044e+002	0.0000e+000	-3.2416e+003	0.0000e+000	2.9655e+003
	9	0.0000e+000	-6.5400e+002	0.0000e+000	4.4360e+003	0.0000e+000	5.1706e+004

**SFORZI "Permanenti" (Fase 1)**

Elem	Nodo	N	Vy	Vz	Mx	My	Mz
1	2	4.7792e+003	-2.4179e+002	1.6568e+001	-3.4946e-012	4.9711e+003	7.6205e+004
	14	-3.6698e+003	2.4179e+002	-1.6568e+001	3.4946e-012	-1.0853e+004	-1.6204e+005
2	1	4.7792e+003	2.4179e+002	1.6568e+001	-3.4946e-012	4.9711e+003	-7.6205e+004
	13	-3.6698e+003	-2.4179e+002	-1.6568e+001	3.4946e-012	-1.0853e+004	1.6204e+005
3	3	1.0071e+004	1.3141e+002	3.8833e+002	-3.4946e-012	-2.1933e+004	-1.5433e+004
	15	-8.9619e+003	-1.3141e+002	-3.8833e+002	3.4946e-012	-1.1592e+005	6.2084e+004
4	4	1.0071e+004	-1.3141e+002	3.8833e+002	-3.4946e-012	-2.1933e+004	1.5433e+004
	16	-8.9619e+003	1.3141e+002	-3.8833e+002	3.4946e-012	-1.1592e+005	-6.2084e+004
5	5	1.2698e+004	1.4398e+002	3.0518e+002	-3.4946e-012	-2.9155e+004	-1.6047e+004
	17	-1.1589e+004	-1.4398e+002	-3.0518e+002	3.4946e-012	-7.9183e+004	6.7161e+004
6	6	1.2698e+004	-1.4398e+002	3.0518e+002	-3.4946e-012	-2.9155e+004	1.6047e+004
	18	-1.1589e+004	1.4398e+002	-3.0518e+002	3.4946e-012	-7.9183e+004	-6.7161e+004
7	12	4.7792e+003	-2.4179e+002	-1.6568e+001	-3.4946e-012	-4.9711e+003	7.6205e+004
	24	-3.6698e+003	2.4179e+002	1.6568e+001	3.4946e-012	1.0853e+004	-1.6204e+005
8	10	1.0071e+004	-1.3141e+002	-3.8833e+002	-3.4946e-012	2.1933e+004	1.5433e+004
	22	-8.9619e+003	1.3141e+002	3.8833e+002	3.4946e-012	1.1592e+005	-6.2084e+004
9	8	1.2698e+004	-1.4398e+002	-3.0518e+002	-3.4946e-012	2.9155e+004	1.6047e+004
	20	-1.1589e+004	1.4398e+002	3.0518e+002	3.4946e-012	7.9183e+004	-6.7161e+004
10	7	1.2698e+004	1.4398e+002	-3.0518e+002	-3.4946e-012	2.9155e+004	-1.6047e+004
	19	-1.1589e+004	-1.4398e+002	3.0518e+002	3.4946e-012	7.9183e+004	6.7161e+004
11	9	1.0071e+004	1.3141e+002	-3.8833e+002	-3.4946e-012	2.1933e+004	-1.5433e+004
	21	-8.9619e+003	-1.3141e+002	3.8833e+002	3.4946e-012	1.1592e+005	6.2084e+004
12	11	4.7792e+003	2.4179e+002	-1.6568e+001	-3.4946e-012	-4.9711e+003	-7.6205e+004
	23	-3.6698e+003	-2.4179e+002	1.6568e+001	3.4946e-012	1.0853e+004	1.6204e+005
13	14	0.0000e+000	1.9765e+003	0.0000e+000	-1.0459e-011	-2.0195e-027	1.5304e+005
	13	0.0000e+000	1.9765e+003	0.0000e+000	1.0459e-011	-1.8175e-027	-1.5304e+005
14	16	-3.2312e-027	8.8500e+002	0.0000e+000	3.6380e-012	0.0000e+000	6.9788e+004
	15	3.2312e-027	8.8500e+002	0.0000e+000	-3.6380e-012	0.0000e+000	-6.9788e+004
15	18	1.6156e-027	8.8500e+002	0.0000e+000	4.5475e-013	0.0000e+000	6.8458e+004
	17	-1.6156e-027	8.8500e+002	0.0000e+000	-4.5475e-013	0.0000e+000	-6.8458e+004
16	20	0.0000e+000	8.8500e+002	0.0000e+000	-3.1832e-012	0.0000e+000	6.8458e+004
	19	0.0000e+000	8.8500e+002	0.0000e+000	3.1832e-012	0.0000e+000	-6.8458e+004
17	22	0.0000e+000	8.8500e+002	0.0000e+000	3.6380e-012	0.0000e+000	6.9788e+004
	21	0.0000e+000	8.8500e+002	0.0000e+000	-3.6380e-012	0.0000e+000	-6.9788e+004
18	24	0.0000e+000	1.9765e+003	0.0000e+000	-3.6380e-012	-2.0195e-027	1.5304e+005
	23	0.0000e+000	1.9765e+003	0.0000e+000	3.6380e-012	-1.8175e-027	-1.5304e+005
19	16	0.0000e+000	3.4133e+003	1.0097e-028	9.0004e+003	6.4623e-027	2.4090e+005
	14	0.0000e+000	1.6933e+003	-1.0097e-028	-9.0004e+003	0.0000e+000	-1.0853e+004
20	18	0.0000e+000	5.0723e+003	6.3109e-030	1.2968e+003	1.6156e-027	4.6105e+005
	16	0.0000e+000	4.6636e+003	-6.3109e-030	-1.2968e+003	1.6156e-027	-3.5683e+005
21	20	0.0000e+000	5.6316e+003	0.0000e+000	1.8190e-012	-2.0195e-027	5.4024e+005
	18	0.0000e+000	5.6315e+003	0.0000e+000	-1.8190e-012	-1.4136e-027	-5.4024e+005
22	22	0.0000e+000	4.6636e+003	6.3109e-030	-1.2968e+003	1.6156e-027	3.5683e+005
	20	0.0000e+000	5.0723e+003	-6.3109e-030	1.2968e+003	0.0000e+000	-4.6105e+005
23	24	0.0000e+000	1.6933e+003	1.0097e-028	-9.0004e+003	0.0000e+000	1.0853e+004
	22	0.0000e+000	3.4133e+003	-1.0097e-028	9.0004e+003	0.0000e+000	-2.4090e+005
24	15	0.0000e+000	3.4133e+003	1.0097e-028	-9.0004e+003	6.4623e-027	2.4090e+005
	13	0.0000e+000	1.6933e+003	-1.0097e-028	9.0004e+003	0.0000e+000	-1.0853e+004
25	17	-1.6156e-027	5.0723e+003	6.3109e-030	-1.2968e+003	1.6156e-027	4.6105e+005
	15	1.6156e-027	4.6636e+003	-6.3109e-030	1.2968e+003	1.6156e-027	-3.5683e+005
26	19	-8.0779e-028	5.6316e+003	0.0000e+000	5.4570e-012	-2.0195e-027	5.4024e+005
	17	8.0779e-028	5.6316e+003	0.0000e+000	-5.4570e-012	-1.4136e-027	-5.4024e+005
27	21	-1.6156e-027	4.6636e+003	6.3109e-030	1.2968e+003	1.6156e-027	3.5683e+005
	19	1.6156e-027	5.0723e+003	-6.3109e-030	-1.2968e+003	0.0000e+000	-4.6105e+005
28	23	0.0000e+000	1.6933e+003	1.0097e-028	9.0004e+003	0.0000e+000	1.0853e+004
	21	0.0000e+000	3.4133e+003	-1.0097e-028	-9.0004e+003	0.0000e+000	-2.4090e+005
29	2	0.0000e+000	-2.8167e+003	0.0000e+000	-2.4514e+003	0.0000e+000	-4.7849e+004
	1	0.0000e+000	-2.8167e+003	0.0000e+000	-2.4514e+003	0.0000e+000	4.7849e+004
30	4	0.0000e+000	-3.3263e+003	0.0000e+000	-2.0304e+003	0.0000e+000	-5.5362e+004
	3	0.0000e+000	-3.3263e+003	0.0000e+000	-2.0304e+003	0.0000e+000	5.5362e+004

31	6	0.0000e+000	-3.3937e+003	0.0000e+000	-5.4005e+002	0.0000e+000	-4.5096e+004
	5	0.0000e+000	-3.3937e+003	0.0000e+000	-5.4005e+002	0.0000e+000	4.5096e+004
32	8	0.0000e+000	-3.3937e+003	0.0000e+000	5.4005e+002	0.0000e+000	-4.5096e+004
	7	0.0000e+000	-3.3937e+003	0.0000e+000	5.4005e+002	0.0000e+000	4.5096e+004
33	10	0.0000e+000	-3.3263e+003	0.0000e+000	2.0304e+003	0.0000e+000	-5.5362e+004
	9	0.0000e+000	-3.3263e+003	0.0000e+000	2.0304e+003	0.0000e+000	5.5362e+004
34	12	0.0000e+000	-2.8167e+003	0.0000e+000	2.4514e+003	0.0000e+000	-4.7849e+004
	11	0.0000e+000	-2.8167e+003	0.0000e+000	2.4514e+003	0.0000e+000	4.7849e+004
35	4	0.0000e+000	-3.3510e+003	0.0000e+000	-3.7640e+004	0.0000e+000	-2.1293e+005
	2	0.0000e+000	-1.9624e+003	0.0000e+000	2.8356e+004	0.0000e+000	7.4225e+003
36	6	0.0000e+000	-4.7268e+003	0.0000e+000	-1.7365e+004	0.0000e+000	-4.2309e+005
	4	0.0000e+000	-3.3939e+003	0.0000e+000	-2.2897e+003	0.0000e+000	1.9302e+005
37	8	0.0000e+000	-4.5777e+003	0.0000e+000	-1.1684e+004	0.0000e+000	-3.9447e+005
	6	0.0000e+000	-4.5777e+003	0.0000e+000	-1.1684e+004	0.0000e+000	3.9447e+005
38	10	0.0000e+000	-3.3939e+003	0.0000e+000	-2.2897e+003	0.0000e+000	-1.9302e+005
	8	0.0000e+000	-4.7268e+003	0.0000e+000	-1.7365e+004	0.0000e+000	4.2309e+005
39	12	0.0000e+000	-1.9624e+003	0.0000e+000	2.8356e+004	0.0000e+000	-7.4225e+003
	10	0.0000e+000	-3.3510e+003	0.0000e+000	-3.7640e+004	0.0000e+000	2.1293e+005
40	3	0.0000e+000	-3.3510e+003	0.0000e+000	3.7640e+004	0.0000e+000	-2.1293e+005
	1	0.0000e+000	-1.9624e+003	0.0000e+000	-2.8356e+004	0.0000e+000	7.4225e+003
41	5	0.0000e+000	-4.7268e+003	0.0000e+000	1.7365e+004	0.0000e+000	-4.2309e+005
	3	0.0000e+000	-3.3939e+003	0.0000e+000	2.2897e+003	0.0000e+000	1.9302e+005
42	7	0.0000e+000	-4.5777e+003	0.0000e+000	1.1684e+004	0.0000e+000	-3.9447e+005
	5	0.0000e+000	-4.5777e+003	0.0000e+000	1.1684e+004	0.0000e+000	3.9447e+005
43	9	0.0000e+000	-3.3939e+003	0.0000e+000	2.2897e+003	0.0000e+000	-1.9302e+005
	7	0.0000e+000	-4.7268e+003	0.0000e+000	1.7365e+004	0.0000e+000	4.2309e+005
44	11	0.0000e+000	-1.9624e+003	0.0000e+000	-2.8356e+004	0.0000e+000	-7.4225e+003
	9	0.0000e+000	-3.3510e+003	0.0000e+000	3.7640e+004	0.0000e+000	2.1293e+005

#### INFORMAZIONI - ANALISI " \_38" (Fase 1)

Equazioni.....	75
Semibanda.....	51
Numero blocchi.....	1
Zero algoritmico.....	7.7373e-007
Tempo totale analisi (sec).....	3.33e-002
Metodo di combinazione modale....	SRSS

#### ACCELERAZIONI SISMICHE

Vect.	X	Y	Z	Spettro
1	58.81	0.00	0.00	SLD
2	0.00	58.81	0.00	SLD
3	176.53	0.00	0.00	SLV
4	0.00	176.53	0.00	SLV

Masse abilitate secondo: " X Y "

#### PERIODI PROPRI - ANALISI " \_38" (Fase 1)

modo	periodo(sec)
1	2.847722e-001
2	2.038746e-001
3	1.918174e-001

#### COEFFICIENTI DI PARTECIPAZIONE MODALE - ANALISI " \_38" (Fase 1)

Modo	x	y	z
1	10.27345	-3.30526e-013	0.00000
2	-1.35829e-015	2.65209e-015	0.00000
3	1.61250e-012	10.27345	0.00000

#### MASSA MODALE RELATIVA - ANALISI " \_38" (Fase 1)

Modo	x	y	z	s
1	1.00000	1.03509e-027	0.00000	0.50000
2	1.74804e-032	6.66416e-032	0.00000	4.20610e-032
3	2.46360e-026	1.00000	0.00000	0.50000
	1.00000	1.00000	0.00000	1.00000

**SPOSTAMENTI NODALI "Dinamica SLD X" (Fase 1)**

Nodo	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000e+000	0.0000e+000	3.9641e-002	-1.0238e-004	4.6326e-004	0.0000e+000
2	0.0000e+000	0.0000e+000	-3.9641e-002	1.0238e-004	4.6326e-004	0.0000e+000
3	0.0000e+000	0.0000e+000	1.5585e-002	-4.7162e-005	2.4393e-004	0.0000e+000
4	0.0000e+000	0.0000e+000	-1.5585e-002	4.7162e-005	2.4393e-004	0.0000e+000
5	0.0000e+000	0.0000e+000	7.1240e-003	-3.3226e-007	1.6496e-004	0.0000e+000
6	0.0000e+000	0.0000e+000	-7.1240e-003	3.3226e-007	1.6496e-004	0.0000e+000
7	0.0000e+000	0.0000e+000	7.1240e-003	3.3226e-007	1.6496e-004	0.0000e+000
8	0.0000e+000	0.0000e+000	-7.1240e-003	-3.3226e-007	1.6496e-004	0.0000e+000
9	0.0000e+000	0.0000e+000	1.5585e-002	4.7162e-005	2.4393e-004	0.0000e+000
10	0.0000e+000	0.0000e+000	-1.5585e-002	-4.7162e-005	2.4393e-004	0.0000e+000
11	0.0000e+000	0.0000e+000	3.9641e-002	1.0238e-004	4.6326e-004	0.0000e+000
12	0.0000e+000	0.0000e+000	-3.9641e-002	-1.0238e-004	4.6326e-004	0.0000e+000
13	4.6777e-001	3.6550e-014	4.0771e-002	-6.9197e-005	1.2181e-003	-8.1235e-020
14	4.6777e-001	3.6558e-014	-4.0771e-002	6.9197e-005	1.2181e-003	-8.1235e-020
15	4.6777e-001	3.6547e-014	1.6296e-002	-2.6051e-005	1.2101e-003	-8.1235e-020
16	4.6777e-001	3.6561e-014	-1.6296e-002	2.6051e-005	1.2101e-003	-8.1235e-020
17	4.6777e-001	3.6546e-014	7.5952e-003	-2.7739e-006	1.2205e-003	-8.1235e-020
18	4.6777e-001	3.6562e-014	-7.5952e-003	2.7739e-006	1.2205e-003	-8.1235e-020
19	4.6777e-001	3.6545e-014	7.5952e-003	2.7739e-006	1.2205e-003	-8.1235e-020
20	4.6777e-001	3.6563e-014	-7.5952e-003	-2.7739e-006	1.2205e-003	-8.1235e-020
21	4.6777e-001	3.6544e-014	1.6296e-002	2.6051e-005	1.2101e-003	-8.1235e-020
22	4.6777e-001	3.6564e-014	-1.6296e-002	-2.6051e-005	1.2101e-003	-8.1235e-020
23	4.6777e-001	3.6541e-014	4.0771e-002	6.9197e-005	1.2181e-003	-8.1235e-020
24	4.6777e-001	3.6567e-014	-4.0771e-002	-6.9197e-005	1.2181e-003	-8.1235e-020
25	4.6777e-001	3.6554e-014	0.0000e+000	0.0000e+000	0.0000e+000	-8.1235e-020

**SPOSTAMENTI NODALI "Dinamica SLD Y" (Fase 1)**

Nodo	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000e+000	0.0000e+000	2.2023e-002	-1.3665e-004	6.4376e-005	0.0000e+000
2	0.0000e+000	0.0000e+000	2.2023e-002	-1.3665e-004	-6.4376e-005	0.0000e+000
3	0.0000e+000	0.0000e+000	-2.8772e-003	-1.2615e-004	7.2953e-006	0.0000e+000
4	0.0000e+000	0.0000e+000	-2.8772e-003	-1.2615e-004	-7.2953e-006	0.0000e+000
5	0.0000e+000	0.0000e+000	-1.3328e-003	-1.0667e-004	-3.0169e-006	0.0000e+000
6	0.0000e+000	0.0000e+000	-1.3328e-003	-1.0667e-004	3.0169e-006	0.0000e+000
7	0.0000e+000	0.0000e+000	1.3328e-003	-1.0667e-004	3.0169e-006	0.0000e+000
8	0.0000e+000	0.0000e+000	1.3328e-003	-1.0667e-004	-3.0169e-006	0.0000e+000
9	0.0000e+000	0.0000e+000	2.8772e-003	-1.2615e-004	-7.2953e-006	0.0000e+000
10	0.0000e+000	0.0000e+000	2.8772e-003	-1.2615e-004	7.2953e-006	0.0000e+000
11	0.0000e+000	0.0000e+000	-2.2023e-002	-1.3665e-004	-6.4376e-005	0.0000e+000
12	0.0000e+000	0.0000e+000	-2.2023e-002	-1.3665e-004	6.4376e-005	0.0000e+000
13	3.6487e-014	2.1224e-001	2.3184e-002	-2.0012e-004	-2.5389e-005	1.0901e-019
14	3.6479e-014	2.1224e-001	2.3184e-002	-2.0012e-004	2.5389e-005	1.0901e-019
15	3.6502e-014	2.1224e-001	-3.3453e-003	-3.8352e-004	-7.2282e-006	1.0901e-019
16	3.6500e-014	2.1224e-001	-3.3453e-003	-3.8352e-004	7.2282e-006	1.0901e-019
17	3.6534e-014	2.1224e-001	-1.4845e-003	-4.1411e-004	1.0753e-007	1.0901e-019
18	3.6535e-014	2.1224e-001	-1.4845e-003	-4.1411e-004	-1.0753e-007	1.0901e-019
19	3.6573e-014	2.1224e-001	1.4845e-003	-4.1411e-004	-1.0753e-007	1.0901e-019
20	3.6573e-014	2.1224e-001	1.4845e-003	-4.1411e-004	1.0753e-007	1.0901e-019
21	3.6606e-014	2.1224e-001	3.3453e-003	-3.8352e-004	7.2282e-006	1.0901e-019
22	3.6608e-014	2.1224e-001	3.3453e-003	-3.8352e-004	-7.2282e-006	1.0901e-019
23	3.6621e-014	2.1224e-001	-2.3184e-002	-2.0012e-004	2.5389e-005	1.0901e-019
24	3.6629e-014	2.1224e-001	-2.3184e-002	-2.0012e-004	-2.5389e-005	1.0901e-019
25	3.6554e-014	2.1224e-001	0.0000e+000	0.0000e+000	0.0000e+000	1.0901e-019

**SPOSTAMENTI NODALI "Dinamica SLV X" (Fase 1)**

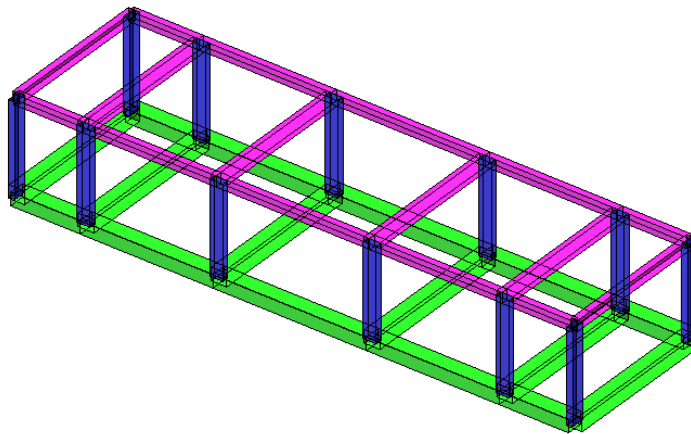
Nodo	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000e+000	0.0000e+000	3.2947e-002	-8.5088e-005	3.8503e-004	0.0000e+000
2	0.0000e+000	0.0000e+000	-3.2947e-002	8.5088e-005	3.8503e-004	0.0000e+000
3	0.0000e+000	0.0000e+000	1.2954e-002	-3.9198e-005	2.0274e-004	0.0000e+000
4	0.0000e+000	0.0000e+000	-1.2954e-002	3.9198e-005	2.0274e-004	0.0000e+000
5	0.0000e+000	0.0000e+000	5.9210e-003	-2.7616e-007	1.3710e-004	0.0000e+000
6	0.0000e+000	0.0000e+000	-5.9210e-003	2.7616e-007	1.3710e-004	0.0000e+000
7	0.0000e+000	0.0000e+000	5.9210e-003	2.7616e-007	1.3710e-004	0.0000e+000
8	0.0000e+000	0.0000e+000	-5.9210e-003	-2.7616e-007	1.3710e-004	0.0000e+000
9	0.0000e+000	0.0000e+000	1.2954e-002	3.9198e-005	2.0274e-004	0.0000e+000
10	0.0000e+000	0.0000e+000	-1.2954e-002	-3.9198e-005	2.0274e-004	0.0000e+000
11	0.0000e+000	0.0000e+000	3.2947e-002	8.5088e-005	3.8503e-004	0.0000e+000
12	0.0000e+000	0.0000e+000	-3.2947e-002	-8.5088e-005	3.8503e-004	0.0000e+000
13	3.8878e-001	3.0378e-014	3.3886e-002	-5.7512e-005	1.0124e-003	-6.7518e-020
14	3.8878e-001	3.0384e-014	-3.3886e-002	5.7512e-005	1.0124e-003	-6.7518e-020
15	3.8878e-001	3.0376e-014	1.3544e-002	-2.1652e-005	1.0058e-003	-6.7518e-020
16	3.8878e-001	3.0387e-014	-1.3544e-002	2.1652e-005	1.0058e-003	-6.7518e-020
17	3.8878e-001	3.0374e-014	6.3126e-003	-2.3055e-006	1.0144e-003	-6.7518e-020
18	3.8878e-001	3.0388e-014	-6.3126e-003	2.3055e-006	1.0144e-003	-6.7518e-020
19	3.8878e-001	3.0374e-014	6.3126e-003	2.3055e-006	1.0144e-003	-6.7518e-020
20	3.8878e-001	3.0389e-014	-6.3126e-003	-2.3055e-006	1.0144e-003	-6.7518e-020

21	3.8878e-001	3.0373e-014	1.3544e-002	2.1652e-005	1.0058e-003	-6.7518e-020
22	3.8878e-001	3.0390e-014	-1.3544e-002	-2.1652e-005	1.0058e-003	-6.7518e-020
23	3.8878e-001	3.0370e-014	3.3886e-002	5.7512e-005	1.0124e-003	-6.7518e-020
24	3.8878e-001	3.0392e-014	-3.3886e-002	-5.7512e-005	1.0124e-003	-6.7518e-020
25	3.8878e-001	3.0381e-014	0.0000e+000	0.0000e+000	0.0000e+000	-6.7518e-020

#### SPOSTAMENTI NODALI "Dinamica SLV Y" (Fase 1)

Nodo	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000e+000	0.0000e+000	1.8304e-002	-1.1357e-004	5.3506e-005	0.0000e+000
2	0.0000e+000	0.0000e+000	1.8304e-002	-1.1357e-004	-5.3506e-005	0.0000e+000
3	0.0000e+000	0.0000e+000	-2.3913e-003	-1.0485e-004	6.0634e-006	0.0000e+000
4	0.0000e+000	0.0000e+000	-2.3913e-003	-1.0485e-004	-6.0634e-006	0.0000e+000
5	0.0000e+000	0.0000e+000	-1.1077e-003	-8.8655e-005	-2.5075e-006	0.0000e+000
6	0.0000e+000	0.0000e+000	-1.1077e-003	-8.8655e-005	2.5075e-006	0.0000e+000
7	0.0000e+000	0.0000e+000	1.1077e-003	-8.8655e-005	2.5075e-006	0.0000e+000
8	0.0000e+000	0.0000e+000	1.1077e-003	-8.8655e-005	-2.5075e-006	0.0000e+000
9	0.0000e+000	0.0000e+000	2.3913e-003	-1.0485e-004	-6.0634e-006	0.0000e+000
10	0.0000e+000	0.0000e+000	2.3913e-003	-1.0485e-004	6.0634e-006	0.0000e+000
11	0.0000e+000	0.0000e+000	-1.8304e-002	-1.1357e-004	-5.3506e-005	0.0000e+000
12	0.0000e+000	0.0000e+000	-1.8304e-002	-1.1357e-004	5.3506e-005	0.0000e+000
13	3.0326e-014	1.7640e-001	1.9269e-002	-1.6632e-004	-2.1102e-005	9.0605e-020
14	3.0319e-014	1.7640e-001	1.9269e-002	-1.6632e-004	2.1102e-005	9.0605e-020
15	3.0338e-014	1.7640e-001	-2.7804e-003	-3.1876e-004	-6.0077e-006	9.0605e-020
16	3.0336e-014	1.7640e-001	-2.7804e-003	-3.1876e-004	6.0077e-006	9.0605e-020
17	3.0365e-014	1.7640e-001	-1.2338e-003	-3.4418e-004	8.9373e-008	9.0605e-020
18	3.0365e-014	1.7640e-001	-1.2338e-003	-3.4418e-004	-8.9373e-008	9.0605e-020
19	3.0397e-014	1.7640e-001	1.2338e-003	-3.4418e-004	-8.9373e-008	9.0605e-020
20	3.0397e-014	1.7640e-001	1.2338e-003	-3.4418e-004	8.9373e-008	9.0605e-020
21	3.0424e-014	1.7640e-001	2.7804e-003	-3.1876e-004	6.0077e-006	9.0605e-020
22	3.0426e-014	1.7640e-001	2.7804e-003	-3.1876e-004	-6.0077e-006	9.0605e-020
23	3.0437e-014	1.7640e-001	-1.9269e-002	-1.6632e-004	2.1102e-005	9.0605e-020
24	3.0443e-014	1.7640e-001	-1.9269e-002	-1.6632e-004	-2.1102e-005	9.0605e-020
25	3.0381e-014	1.7640e-001	0.0000e+000	0.0000e+000	0.0000e+000	9.0605e-020

# VERIFICHE STRUTTURALI



SCHEMA STRUTTURALE 3D

## 1. PILASTRI

### Spogliatoio.sap

All-In-One EWS 47 (03.04.2018) build 7089

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Parametri di progetto		
Normativa		
Normativa di riferimento	DM 2018 - Zona sismica - Bassa Duttilità	
Unità di misura		
Lunghezza	cm	
Forza	kg	
Pressione	kg/cm2	
Metodo di progetto		
Metodo	Stati limite	
Fattori sicurezza parziale		
Calcestruzzo	1.50	
Acciaio	1.15	
Legami costitutivi		
Asse parabola calcestruzzo (x1000)	2.00	
Fattore di riduzione addizionale	0.85	
Deformazione ultima calcestruzzo (x1000)	3.50	
Deformazione ultima acciaio (x1000)	10.00	
Incremento resistenza acciaio	0.00	
Opzioni di progetto		
Considerata l'eccentricità accidentale sui pilastri	NO	
Considerata la traslazione del diagramma dei momenti	SI	
Armatura longitudinale		
Lunghezza massima barre	cm	1200.00
Massima distanza barre	cm	1000.00
Diametri minimi di ancoraggio	20.00	
Progetto antisismico		
Gerarchia delle resistenze	SI	
Fattore di sicurezza per la gerarchia delle resistenze	1.10	
Progetto per taglio dovuto ad azione sismica	SI	
Progetto per duttilità dei pilastri-parete	SI	
Minimi e massimi per le travi		
Armatura minima tesa	F1.40000	
Armatura massima tesa	F3.50000	
Armatura minima totale	0.000	
Armatura massima totale		
Moltiplicatore di continuità dell'armatura in zona critica	0.00	
Rapporto di bilanciamento di armatura	0.50	
Lunghezza zona critica	H	
Minimi e massimi per i pilastri		
Armatura minima totale	0.010	
Armatura massima totale	0.040	
Minimi e massimi per travi di fondazione		



Armatura minima totale	0.002
<b>Modalità staffatura</b>	
Staffe filo pilastro	SI
Passo massimo nelle travi	33.000,H0.8,P666.666
Passo massimo nei pilastri	25.000,D12
<b>Infittimento staffe agli estremi</b>	
Passo zona critica travi	H0.25,D8,22.500,S24
Lunghezza zona critica travi	H
Passo zona critica pilastri	D8,17.500,m0.5,p12.50000J
Lunghezza zona critica pilastri	M,L0.167,45.000
<b>Abbreviazioni usate nelle regole di assegnazione</b>	
n	valore numerico
Hn	n volte altezza della sezione asse locale y
Ln	n moltiplica la lunghezza della trave
Dn	n volte il diametro minimo armatura
Sn	n volte il diametro della staffa
Pn	Ast/bst: rapporto tra area staffa e corda
Mn (maiuscolo)	dimensione massima della sezione
mn (minuscolo)	dimensione minima della sezione
Nn	moltiplicatore forza assiale di compressione
Fn	inverso della resistenza dell'acciaio

## Caratteristiche dei materiali

<b>Calcestruzzi</b>		
	Calcestruzzo	Calcestruzzo
Denominazione materiale		C25/30
Resistenza cubica	kg/cm2	305.91
Resistenza a compressione	kg/cm2	143.88
Resistenza a trazione frattile 5%	kg/cm2	12.09
Tensione di aderenza	kg/cm2	27.21

<b>Acciai</b>		
	Acciaio	Calcestruzzo
Denominazione materiale		B450C
Resistenza caratteristica acciaio	kg/cm2	4588.72
Resistenza di calcolo	kg/cm2	3990.19

## Tipi di carico

Nome	Tipo	Grav.	Gamma fav	Gamma unfav.	Gamma sismico	Psi 0	Psi 1	Psi 2	Psi 2 sismico	Phi (coeff. correl.)
Permanente	permanente	*	1.00	1.50	1.00	nd	nd	nd	nd	nd
Sismico SLU	sismico	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Sismico SLD	sismico	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Torcente SLU	sismico correlato	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Torcente SLD	sismico correlato	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Cat. A: Residenziale	variabile	*	nd	1.30	1.00	0.70	0.50	0.30	0.30	1.00
Cat. B: Uffici	variabile	*	nd	1.30	1.00	0.70	0.50	0.30	0.30	1.00
Cat. C: Affollamento	variabile	*	nd	1.30	1.00	0.70	0.70	0.60	0.60	1.00
Cat. D: Commerciale	variabile	*	nd	1.30	1.00	0.70	0.70	0.60	0.60	1.00
Cat. E: Magazzini	variabile	*	nd	1.30	1.00	1.00	0.90	0.80	0.80	1.00
Cat. F: Rimesse (<30kN)	variabile	*	nd	1.30	1.00	0.70	0.70	0.60	0.60	1.00
Cat. G: Rimesse (>30kN)	variabile	*	nd	1.30	1.00	0.70	0.50	0.30	0.30	1.00
Cat. H: Copertura	variabile	*	nd	1.30	0.00	0.00	0.00	0.00	0.00	1.00
Neve (q<1000)	variabile	*	nd	1.30	1.00	0.50	0.20	0.00	0.00	1.00
Neve (q>1000)	variabile	*	nd	1.30	1.00	0.70	0.50	0.20	0.20	1.00
Vento	variabile non contemporaneo		nd	1.30	0.00	0.60	0.20	0.00	0.00	1.00
Torcente SLV	sismico correlato		nd	1.00	0.00	nd	nd	nd	nd	nd

## Condizioni di carico

(Fase) Nome	Tipo
(1) Dinamica SLV Y	Sismico SLU
(1) Dinamica SLV X	Sismico SLU
(1) Dinamica SLD Y	Sismico SLD
(1) Dinamica SLD X	Sismico SLD
(1) Permanenti	Permanente
(1) Accidentali	Neve (q<1000)
(1) Torcente di piano SLV	Torcente SLV
(1) Torcente di piano SLD	Torcente SLD

## Combinazioni di progetto dei carichi

1	-1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X
2	-1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
3	-1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X
4	-1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
5	1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X
6	1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
7	1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X

8	1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
9	-1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y
10	-1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
11	-1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y
12	-1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
13	1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y
14	1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
15	1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y
16	1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
17	1.30 * (1) Accidentali + 1.50 * (1) Permanenti
18	1.50 * (1) Permanenti

#### Combinazioni di esercizio dei carichi

1	Quasi Perm.	1.00 * (1) Permanenti
2	Frequente	0.20 * (1) Accidentali + 1.00 * (1) Permanenti
3	Frequente	1.00 * (1) Permanenti
4	Rara	1.00 * (1) Accidentali + 1.00 * (1) Permanenti
5	Rara	1.0 * (1) Permanenti

#### Combinazioni di danno dei carichi

1	-1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLD X
2	-1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLD X
3	1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLD X
4	1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLD X
5	-1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLD Y
6	-1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLD Y
7	1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLD Y
8	1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLD Y

#### Elementi

Elemento	Dal nodo	Al nodo	Offset estremo sinistro (cm)			Offset estremo destro (cm)			Lunghezza (cm)
			x	y	z	x	y	z	
1	2	14	0.00	0.00	0.00	0.00	0.00	0.00	355.00
2	1	13	0.00	0.00	0.00	0.00	0.00	0.00	355.00
3	3	15	0.00	0.00	0.00	0.00	0.00	0.00	355.00
4	4	16	0.00	0.00	0.00	0.00	0.00	0.00	355.00
5	5	17	0.00	0.00	0.00	0.00	0.00	0.00	355.00
6	6	18	0.00	0.00	0.00	0.00	0.00	0.00	355.00
7	12	24	0.00	0.00	0.00	0.00	0.00	0.00	355.00
8	10	22	0.00	0.00	0.00	0.00	0.00	0.00	355.00
9	8	20	0.00	0.00	0.00	0.00	0.00	0.00	355.00
10	7	19	0.00	0.00	0.00	0.00	0.00	0.00	355.00
11	9	21	0.00	0.00	0.00	0.00	0.00	0.00	355.00
12	11	23	0.00	0.00	0.00	0.00	0.00	0.00	355.00

#### Sezioni

##### Sezione rettangolare

Elemento	Materiale	Altezza (cm)	Base (cm)
1	Calcestruzzo	50.00	25.00
2	Calcestruzzo	50.00	25.00
3	Calcestruzzo	25.00	50.00
4	Calcestruzzo	25.00	50.00
5	Calcestruzzo	25.00	50.00
6	Calcestruzzo	25.00	50.00
7	Calcestruzzo	50.00	25.00
8	Calcestruzzo	25.00	50.00
9	Calcestruzzo	25.00	50.00
10	Calcestruzzo	25.00	50.00
11	Calcestruzzo	25.00	50.00
12	Calcestruzzo	50.00	25.00

#### Sollecitazioni agli estremi degli elementi

##### Condizione "(1) Dinamica SLV Y"

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
1	-1.0896e+003	1.2298e+002	7.0122e+002	-7.6728e-012	-1.2757e+005	-3.9379e+004
	-1.0896e+003	1.2298e+002	7.0122e+002	-7.6728e-012	1.2136e+005	4.2782e+003
2	-1.0896e+003	-1.2298e+002	7.0122e+002	-7.6728e-012	-1.2757e+005	3.9379e+004
	-1.0896e+003	-1.2298e+002	7.0122e+002	-7.6728e-012	1.2136e+005	-4.2782e+003
3	4.3932e+002	-5.4735e-002	2.1639e+003	-7.6728e-012	-4.3441e+005	7.1960e+002

	4.3932e+002	-5.4735e-002	2.1639e+003	-7.6728e-012	3.3377e+005	7.0017e+002
4	4.3932e+002	5.4735e-002	2.1639e+003	-7.6728e-012	-4.3441e+005	-7.1960e+002
	4.3932e+002	5.4735e-002	2.1639e+003	-7.6728e-012	3.3377e+005	-7.0017e+002
5	1.4238e+002	2.3752e+000	2.1289e+003	-7.6728e-012	-4.3798e+005	-5.7432e+002
	1.4238e+002	2.3752e+000	2.1289e+003	-7.6728e-012	3.1776e+005	2.6888e+002
6	1.4238e+002	-2.3752e+000	2.1289e+003	-7.6728e-012	-4.3798e+005	5.7432e+002
	1.4238e+002	-2.3752e+000	2.1289e+003	-7.6728e-012	3.1776e+005	-2.6888e+002
7	1.0896e+003	-1.2298e+002	7.0122e+002	-7.6728e-012	-1.2757e+005	3.9379e+004
	1.0896e+003	-1.2298e+002	7.0122e+002	-7.6728e-012	1.2136e+005	-4.2782e+003
8	-4.3932e+002	-5.4735e-002	2.1639e+003	-7.6728e-012	-4.3441e+005	7.1960e+002
	-4.3932e+002	-5.4735e-002	2.1639e+003	-7.6728e-012	3.3377e+005	7.0017e+002
9	-1.4238e+002	2.3752e+000	2.1289e+003	-7.6728e-012	-4.3798e+005	-5.7432e+002
	-1.4238e+002	2.3752e+000	2.1289e+003	-7.6728e-012	3.1776e+005	2.6888e+002
10	-1.4238e+002	-2.3752e+000	2.1289e+003	-7.6728e-012	-4.3798e+005	5.7432e+002
	-1.4238e+002	-2.3752e+000	2.1289e+003	-7.6728e-012	3.1776e+005	-2.6888e+002
11	-4.3932e+002	5.4735e-002	2.1639e+003	-7.6728e-012	-4.3441e+005	-7.1960e+002
	-4.3932e+002	5.4735e-002	2.1639e+003	-7.6728e-012	3.3377e+005	-7.0017e+002
12	1.0896e+003	1.2298e+002	7.0122e+002	-7.6728e-012	-1.2757e+005	-3.9379e+004
	1.0896e+003	1.2298e+002	7.0122e+002	-7.6728e-012	1.2136e+005	4.2782e+003

#### Condizione "(1) Dinamica SLV X"

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
1	1.0604e+003	3.0091e+003	1.4007e+002	5.7177e-012	-2.6484e+004	-6.8170e+005
	1.0604e+003	3.0091e+003	1.4007e+002	5.7177e-012	2.3241e+004	3.8654e+005
2	-1.0604e+003	3.0091e+003	-1.4007e+002	5.7177e-012	2.6484e+004	-6.8170e+005
	-1.0604e+003	3.0091e+003	-1.4007e+002	5.7177e-012	-2.3241e+004	3.8654e+005
3	-6.6711e+002	9.6442e+002	-2.3093e+002	5.7177e-012	4.5118e+004	-2.1841e+005
	-6.6711e+002	9.6442e+002	-2.3093e+002	5.7177e-012	-3.6863e+004	1.2396e+005
4	6.6711e+002	9.6442e+002	2.3093e+002	5.7177e-012	-4.5118e+004	-2.1841e+005
	6.6711e+002	9.6442e+002	2.3093e+002	5.7177e-012	3.6863e+004	1.2396e+005
5	-4.4214e+002	1.0204e+003	-9.7978e+000	5.7177e-012	1.2617e+003	-2.3272e+005
	-4.4214e+002	1.0204e+003	-9.7978e+000	5.7177e-012	-2.2165e+003	1.2954e+005
6	4.4214e+002	1.0204e+003	9.7978e+000	5.7177e-012	-1.2617e+003	-2.3272e+005
	4.4214e+002	1.0204e+003	9.7978e+000	5.7177e-012	2.2165e+003	1.2954e+005
7	1.0604e+003	3.0091e+003	-1.4007e+002	5.7177e-012	2.6484e+004	-6.8170e+005
	1.0604e+003	3.0091e+003	-1.4007e+002	5.7177e-012	-2.3241e+004	3.8654e+005
8	6.6711e+002	9.6442e+002	-2.3093e+002	5.7177e-012	4.5118e+004	-2.1841e+005
	6.6711e+002	9.6442e+002	-2.3093e+002	5.7177e-012	-3.6863e+004	1.2396e+005
9	4.4214e+002	1.0204e+003	-9.7978e+000	5.7177e-012	1.2617e+003	-2.3272e+005
	4.4214e+002	1.0204e+003	-9.7978e+000	5.7177e-012	-2.2165e+003	1.2954e+005
10	-4.4214e+002	1.0204e+003	9.7978e+000	5.7177e-012	-1.2617e+003	-2.3272e+005
	-4.4214e+002	1.0204e+003	9.7978e+000	5.7177e-012	2.2165e+003	1.2954e+005
11	-6.6711e+002	9.6442e+002	2.3093e+002	5.7177e-012	-4.5118e+004	-2.1841e+005
	-6.6711e+002	9.6442e+002	2.3093e+002	5.7177e-012	3.6863e+004	1.2396e+005
12	-1.0604e+003	3.0091e+003	1.4007e+002	5.7177e-012	-2.6484e+004	-6.8170e+005
	-1.0604e+003	3.0091e+003	1.4007e+002	5.7177e-012	2.3241e+004	3.8654e+005

#### Condizione "(1) Dinamica SLD Y"

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
1	-1.3109e+003	1.4796e+002	8.4369e+002	-9.2317e-012	-1.5349e+005	-4.7379e+004
	-1.3109e+003	1.4796e+002	8.4369e+002	-9.2317e-012	1.4602e+005	5.1474e+003
2	-1.3109e+003	-1.4796e+002	8.4369e+002	-9.2317e-012	-1.5349e+005	4.7379e+004
	-1.3109e+003	-1.4796e+002	8.4369e+002	-9.2317e-012	1.4602e+005	-5.1474e+003
3	5.2858e+002	-6.5856e-002	2.6035e+003	-9.2317e-012	-5.2267e+005	8.6580e+002
	5.2858e+002	-6.5856e-002	2.6035e+003	-9.2317e-012	4.0159e+005	8.4242e+002
4	5.2858e+002	6.5856e-002	2.6035e+003	-9.2317e-012	-5.2267e+005	-8.6580e+002
	5.2858e+002	6.5856e-002	2.6035e+003	-9.2317e-012	4.0159e+005	-8.4242e+002
5	1.7130e+002	2.8578e+000	2.5614e+003	-9.2317e-012	-5.2696e+005	-6.9100e+002
	1.7130e+002	2.8578e+000	2.5614e+003	-9.2317e-012	3.8232e+005	3.2351e+002
6	1.7130e+002	-2.8578e+000	2.5614e+003	-9.2317e-012	-5.2696e+005	6.9100e+002
	1.7130e+002	-2.8578e+000	2.5614e+003	-9.2317e-012	3.8232e+005	-3.2351e+002
7	1.3109e+003	-1.4796e+002	8.4369e+002	-9.2317e-012	-1.5349e+005	4.7379e+004
	1.3109e+003	-1.4796e+002	8.4369e+002	-9.2317e-012	1.4602e+005	-5.1474e+003
8	-5.2858e+002	-6.5856e-002	2.6035e+003	-9.2317e-012	-5.2267e+005	8.6580e+002

	-5.2858e+002	-6.5856e-002	2.6035e+003	-9.2317e-012	4.0159e+005	8.4242e+002
9	-1.7130e+002	2.8578e+000	2.5614e+003	-9.2317e-012	-5.2696e+005	-6.9100e+002
	-1.7130e+002	2.8578e+000	2.5614e+003	-9.2317e-012	3.8232e+005	3.2351e+002
10	-1.7130e+002	-2.8578e+000	2.5614e+003	-9.2317e-012	-5.2696e+005	6.9100e+002
	-1.7130e+002	-2.8578e+000	2.5614e+003	-9.2317e-012	3.8232e+005	-3.2351e+002
11	-5.2858e+002	6.5856e-002	2.6035e+003	-9.2317e-012	-5.2267e+005	-8.6580e+002
	-5.2858e+002	6.5856e-002	2.6035e+003	-9.2317e-012	4.0159e+005	-8.4242e+002
12	1.3109e+003	1.4796e+002	8.4369e+002	-9.2317e-012	-1.5349e+005	-4.7379e+004
	1.3109e+003	1.4796e+002	8.4369e+002	-9.2317e-012	1.4602e+005	5.1474e+003

#### Condizione "(1) Dinamica SLD X"

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
1	1.2758e+003	3.6205e+003	1.6853e+002	6.8794e-012	-3.1865e+004	-8.2020e+005
	1.2758e+003	3.6205e+003	1.6853e+002	6.8794e-012	2.7963e+004	4.6507e+005
2	-1.2758e+003	3.6205e+003	-1.6853e+002	6.8794e-012	3.1865e+004	-8.2020e+005
	-1.2758e+003	3.6205e+003	-1.6853e+002	6.8794e-012	-2.7963e+004	4.6507e+005
3	-8.0264e+002	1.1604e+003	-2.7785e+002	6.8794e-012	5.4284e+004	-2.6278e+005
	-8.0264e+002	1.1604e+003	-2.7785e+002	6.8794e-012	-4.4352e+004	1.4914e+005
4	8.0264e+002	1.1604e+003	2.7785e+002	6.8794e-012	-5.4284e+004	-2.6278e+005
	8.0264e+002	1.1604e+003	2.7785e+002	6.8794e-012	4.4352e+004	1.4914e+005
5	-5.3197e+002	1.2278e+003	-1.1788e+001	6.8794e-012	1.5181e+003	-2.8000e+005
	-5.3197e+002	1.2278e+003	-1.1788e+001	6.8794e-012	-2.6668e+003	1.5585e+005
6	5.3197e+002	1.2278e+003	1.1788e+001	6.8794e-012	-1.5181e+003	-2.8000e+005
	5.3197e+002	1.2278e+003	1.1788e+001	6.8794e-012	2.6668e+003	1.5585e+005
7	1.2758e+003	3.6205e+003	-1.6853e+002	6.8794e-012	3.1865e+004	-8.2020e+005
	1.2758e+003	3.6205e+003	-1.6853e+002	6.8794e-012	-2.7963e+004	4.6507e+005
8	8.0264e+002	1.1604e+003	-2.7785e+002	6.8794e-012	5.4284e+004	-2.6278e+005
	8.0264e+002	1.1604e+003	-2.7785e+002	6.8794e-012	-4.4352e+004	1.4914e+005
9	5.3197e+002	1.2278e+003	-1.1788e+001	6.8794e-012	1.5181e+003	-2.8000e+005
	5.3197e+002	1.2278e+003	-1.1788e+001	6.8794e-012	-2.6668e+003	1.5585e+005
10	-5.3197e+002	1.2278e+003	1.1788e+001	6.8794e-012	-1.5181e+003	-2.8000e+005
	-5.3197e+002	1.2278e+003	1.1788e+001	6.8794e-012	2.6668e+003	1.5585e+005
11	-8.0264e+002	1.1604e+003	2.7785e+002	6.8794e-012	-5.4284e+004	-2.6278e+005
	-8.0264e+002	1.1604e+003	2.7785e+002	6.8794e-012	4.4352e+004	1.4914e+005
12	-1.2758e+003	3.6205e+003	1.6853e+002	6.8794e-012	-3.1865e+004	-8.2020e+005
	-1.2758e+003	3.6205e+003	1.6853e+002	6.8794e-012	2.7963e+004	4.6507e+005

#### Condizione "(1) Permanenti"

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
1	4.7792e+003	2.4179e+002	-1.6568e+001	-3.4946e-012	-4.9711e+003	7.6205e+004
	3.6698e+003	2.4179e+002	-1.6568e+001	-3.4946e-012	-1.0853e+004	1.6204e+005
2	4.7792e+003	-2.4179e+002	-1.6568e+001	-3.4946e-012	-4.9711e+003	-7.6205e+004
	3.6698e+003	-2.4179e+002	-1.6568e+001	-3.4946e-012	-1.0853e+004	-1.6204e+005
3	1.0071e+004	-1.3141e+002	-3.8833e+002	-3.4946e-012	2.1933e+004	-1.5433e+004
	8.9619e+003	-1.3141e+002	-3.8833e+002	-3.4946e-012	-1.1592e+005	-6.2084e+004
4	1.0071e+004	1.3141e+002	-3.8833e+002	-3.4946e-012	2.1933e+004	1.5433e+004
	8.9619e+003	1.3141e+002	-3.8833e+002	-3.4946e-012	-1.1592e+005	6.2084e+004
5	1.2698e+004	-1.4398e+002	-3.0518e+002	-3.4946e-012	2.9155e+004	-1.6047e+004
	1.1589e+004	-1.4398e+002	-3.0518e+002	-3.4946e-012	-7.9183e+004	-6.7161e+004
6	1.2698e+004	1.4398e+002	-3.0518e+002	-3.4946e-012	2.9155e+004	1.6047e+004
	1.1589e+004	1.4398e+002	-3.0518e+002	-3.4946e-012	-7.9183e+004	6.7161e+004
7	4.7792e+003	2.4179e+002	1.6568e+001	-3.4946e-012	4.9711e+003	7.6205e+004
	3.6698e+003	2.4179e+002	1.6568e+001	-3.4946e-012	1.0853e+004	1.6204e+005
8	1.0071e+004	1.3141e+002	3.8833e+002	-3.4946e-012	-2.1933e+004	1.5433e+004
	8.9619e+003	1.3141e+002	3.8833e+002	-3.4946e-012	1.1592e+005	6.2084e+004
9	1.2698e+004	1.4398e+002	3.0518e+002	-3.4946e-012	-2.9155e+004	1.6047e+004
	1.1589e+004	1.4398e+002	3.0518e+002	-3.4946e-012	7.9183e+004	6.7161e+004
10	1.2698e+004	-1.4398e+002	3.0518e+002	-3.4946e-012	-2.9155e+004	-1.6047e+004
	1.1589e+004	-1.4398e+002	3.0518e+002	-3.4946e-012	7.9183e+004	-6.7161e+004
11	1.0071e+004	-1.3141e+002	3.8833e+002	-3.4946e-012	-2.1933e+004	-1.5433e+004
	8.9619e+003	-1.3141e+002	3.8833e+002	-3.4946e-012	1.1592e+005	-6.2084e+004
12	4.7792e+003	-2.4179e+002	1.6568e+001	-3.4946e-012	4.9711e+003	-7.6205e+004
	3.6698e+003	-2.4179e+002	1.6568e+001	-3.4946e-012	1.0853e+004	-1.6204e+005

#### Condizione "(1) Accidentali"

Elemento	Nx ( kg)	Ty ( kg)	Tz ( kg)	Mx ( kgxcm)	My ( kgxcm)	Mz ( kgxcm)
1	6.2181e+002	7.7313e+000	-2.4665e+001	-1.6083e-013	2.9487e+003	1.2625e+004
	6.2181e+002	7.7313e+000	-2.4665e+001	-1.6083e-013	-5.8072e+003	1.5369e+004
2	6.2181e+002	-7.7313e+000	-2.4665e+001	-1.6083e-013	2.9487e+003	-1.2625e+004
	6.2181e+002	-7.7313e+000	-2.4665e+001	-1.6083e-013	-5.8072e+003	-1.5369e+004
3	1.7693e+003	1.5565e+001	-1.1453e+002	-1.6083e-013	1.0350e+004	-5.7754e+003
	1.7693e+003	1.5565e+001	-1.1453e+002	-1.6083e-013	-3.0308e+004	-2.4967e+002
4	1.7693e+003	-1.5565e+001	-1.1453e+002	-1.6083e-013	1.0350e+004	5.7754e+003
	1.7693e+003	-1.5565e+001	-1.1453e+002	-1.6083e-013	-3.0308e+004	2.4967e+002
5	2.3901e+003	2.2666e+001	-6.7360e+001	-1.6083e-013	6.3857e+003	-7.3548e+003
	2.3901e+003	2.2666e+001	-6.7360e+001	-1.6083e-013	-1.7527e+004	6.9170e+002
6	2.3901e+003	-2.2666e+001	-6.7360e+001	-1.6083e-013	6.3857e+003	7.3548e+003
	2.3901e+003	-2.2666e+001	-6.7360e+001	-1.6083e-013	-1.7527e+004	-6.9170e+002
7	6.2181e+002	7.7313e+000	2.4665e+001	-1.6083e-013	-2.9487e+003	1.2625e+004
	6.2181e+002	7.7313e+000	2.4665e+001	-1.6083e-013	5.8072e+003	1.5369e+004
8	1.7693e+003	-1.5565e+001	1.1453e+002	-1.6083e-013	-1.0350e+004	5.7754e+003
	1.7693e+003	-1.5565e+001	1.1453e+002	-1.6083e-013	3.0308e+004	2.4967e+002
9	2.3901e+003	-2.2666e+001	6.7360e+001	-1.6083e-013	-6.3857e+003	7.3548e+003
	2.3901e+003	-2.2666e+001	6.7360e+001	-1.6083e-013	1.7527e+004	-6.9170e+002
10	2.3901e+003	2.2666e+001	6.7360e+001	-1.6083e-013	-6.3857e+003	-7.3548e+003
	2.3901e+003	2.2666e+001	6.7360e+001	-1.6083e-013	1.7527e+004	6.9170e+002
11	1.7693e+003	1.5565e+001	1.1453e+002	-1.6083e-013	-1.0350e+004	-5.7754e+003
	1.7693e+003	1.5565e+001	1.1453e+002	-1.6083e-013	3.0308e+004	-2.4967e+002
12	6.2181e+002	-7.7313e+000	2.4665e+001	-1.6083e-013	-2.9487e+003	-1.2625e+004
	6.2181e+002	-7.7313e+000	2.4665e+001	-1.6083e-013	5.8072e+003	-1.5369e+004
Condizione "(1) Torcente di piano SLV"						
Elemento	Nx ( kg)	Ty ( kg)	Tz ( kg)	Mx ( kgxcm)	My ( kgxcm)	Mz ( kgxcm)
1	4.3052e+001	3.0984e+002	5.7507e+001	-2.9739e+003	-1.0583e+004	-6.9707e+004
	4.3052e+001	3.0984e+002	5.7507e+001	-2.9739e+003	9.8326e+003	4.0287e+004
2	-4.3052e+001	3.0984e+002	-5.7507e+001	-2.9739e+003	1.0583e+004	-6.9707e+004
	-4.3052e+001	3.0984e+002	-5.7507e+001	-2.9739e+003	-9.8326e+003	4.0287e+004
3	-7.9322e+001	6.9111e+001	-1.5468e+002	-2.9739e+003	3.0751e+004	-1.5599e+004
	-7.9322e+001	6.9111e+001	-1.5468e+002	-2.9739e+003	-2.4161e+004	8.9347e+003
4	7.9322e+001	6.9111e+001	1.5468e+002	-2.9739e+003	-3.0751e+004	-1.5599e+004
	7.9322e+001	6.9111e+001	1.5468e+002	-2.9739e+003	2.4161e+004	8.9347e+003
5	-2.0256e+001	2.6673e+001	-1.3114e+002	-2.9739e+003	2.6680e+004	-6.0592e+003
	-2.0256e+001	2.6673e+001	-1.3114e+002	-2.9739e+003	-1.9873e+004	3.4099e+003
6	2.0256e+001	2.6673e+001	1.3114e+002	-2.9739e+003	-2.6680e+004	-6.0592e+003
	2.0256e+001	2.6673e+001	1.3114e+002	-2.9739e+003	1.9873e+004	3.4099e+003
7	-4.3052e+001	-3.0984e+002	5.7507e+001	-2.9739e+003	-1.0583e+004	6.9707e+004
	-4.3052e+001	-3.0984e+002	5.7507e+001	-2.9739e+003	9.8326e+003	-4.0287e+004
8	-7.9322e+001	-6.9111e+001	1.5468e+002	-2.9739e+003	-3.0751e+004	1.5599e+004
	-7.9322e+001	-6.9111e+001	1.5468e+002	-2.9739e+003	2.4161e+004	-8.9347e+003
9	-2.0256e+001	-2.6673e+001	1.3114e+002	-2.9739e+003	-2.6680e+004	6.0592e+003
	-2.0256e+001	-2.6673e+001	1.3114e+002	-2.9739e+003	1.9873e+004	-3.4099e+003
10	2.0256e+001	-2.6673e+001	-1.3114e+002	-2.9739e+003	2.6680e+004	6.0592e+003
	2.0256e+001	-2.6673e+001	-1.3114e+002	-2.9739e+003	-1.9873e+004	-3.4099e+003
11	7.9322e+001	-6.9111e+001	-1.5468e+002	-2.9739e+003	3.0751e+004	1.5599e+004
	7.9322e+001	-6.9111e+001	-1.5468e+002	-2.9739e+003	-2.4161e+004	-8.9347e+003
12	4.3052e+001	-3.0984e+002	-5.7507e+001	-2.9739e+003	1.0583e+004	6.9707e+004
	4.3052e+001	-3.0984e+002	-5.7507e+001	-2.9739e+003	-9.8326e+003	-4.0287e+004
Condizione "(1) Torcente di piano SLD"						
Elemento	Nx ( kg)	Ty ( kg)	Tz ( kg)	Mx ( kgxcm)	My ( kgxcm)	Mz ( kgxcm)
1	1.4343e+001	1.0322e+002	1.9158e+001	-9.9076e+002	-3.5255e+003	-2.3223e+004
	1.4343e+001	1.0322e+002	1.9158e+001	-9.9076e+002	3.2757e+003	1.3421e+004
2	-1.4343e+001	1.0322e+002	-1.9158e+001	-9.9076e+002	3.5255e+003	-2.3223e+004
	-1.4343e+001	1.0322e+002	-1.9158e+001	-9.9076e+002	-3.2757e+003	1.3421e+004
3	-2.6426e+001	2.3024e+001	-5.1532e+001	-9.9076e+002	1.0244e+004	-5.1969e+003
	-2.6426e+001	2.3024e+001	-5.1532e+001	-9.9076e+002	-8.0493e+003	2.9766e+003
4	2.6426e+001	2.3024e+001	5.1532e+001	-9.9076e+002	-1.0244e+004	-5.1969e+003
	2.6426e+001	2.3024e+001	5.1532e+001	-9.9076e+002	8.0493e+003	2.9766e+003
5	-6.7481e+000	8.8862e+000	-4.3687e+001	-9.9076e+002	8.8882e+003	-2.0186e+003

	-6.7481e+000	8.8862e+000	-4.3687e+001	-9.9076e+002	-6.6207e+003	1.1360e+003
6	6.7481e+000	8.8862e+000	4.3687e+001	-9.9076e+002	-8.8882e+003	-2.0186e+003
	6.7481e+000	8.8862e+000	4.3687e+001	-9.9076e+002	6.6207e+003	1.1360e+003
7	-1.4343e+001	-1.0322e+002	1.9158e+001	-9.9076e+002	-3.5255e+003	2.3223e+004
	-1.4343e+001	-1.0322e+002	1.9158e+001	-9.9076e+002	3.2757e+003	-1.3421e+004
8	-2.6426e+001	-2.3024e+001	5.1532e+001	-9.9076e+002	-1.0244e+004	5.1969e+003
	-2.6426e+001	-2.3024e+001	5.1532e+001	-9.9076e+002	8.0493e+003	-2.9766e+003
9	-6.7481e+000	-8.8862e+000	4.3687e+001	-9.9076e+002	-8.8882e+003	2.0186e+003
	-6.7481e+000	-8.8862e+000	4.3687e+001	-9.9076e+002	6.6207e+003	-1.1360e+003
10	6.7481e+000	-8.8862e+000	-4.3687e+001	-9.9076e+002	8.8882e+003	2.0186e+003
	6.7481e+000	-8.8862e+000	-4.3687e+001	-9.9076e+002	-6.6207e+003	-1.1360e+003
11	2.6426e+001	-2.3024e+001	-5.1532e+001	-9.9076e+002	1.0244e+004	5.1969e+003
	2.6426e+001	-2.3024e+001	-5.1532e+001	-9.9076e+002	-8.0493e+003	-2.9766e+003
12	1.4343e+001	-1.0322e+002	-1.9158e+001	-9.9076e+002	3.5255e+003	2.3223e+004
	1.4343e+001	-1.0322e+002	-1.9158e+001	-9.9076e+002	-3.2757e+003	-1.3421e+004

### Armatura longitudinale negli elementi

Elemento	Area (cm2)	Y (cm)	Z (cm)	Ascissa iniz. (cm)	Lunghezza (cm)
1	2.01	23.00	-10.50	25.00	330.00
	2.01	23.00	-10.50	0.00	73.00
	2.01	0.00	-10.50	25.00	330.00
	2.01	0.00	-10.50	0.00	73.00
	2.01	-23.00	-10.50	25.00	330.00
	2.01	-23.00	-10.50	0.00	73.00
	2.01	-23.00	10.50	25.00	330.00
	2.01	-23.00	10.50	0.00	73.00
	2.01	0.00	10.50	25.00	330.00
	2.01	0.00	10.50	0.00	73.00
2	2.01	23.00	10.50	25.00	330.00
	2.01	23.00	10.50	0.00	73.00
	2.01	0.00	10.50	25.00	330.00
	2.01	0.00	10.50	0.00	73.00
	2.01	-23.00	-10.50	25.00	330.00
	2.01	-23.00	-10.50	0.00	73.00
	2.01	-23.00	10.50	25.00	330.00
	2.01	-23.00	10.50	0.00	73.00
	2.01	0.00	10.50	25.00	330.00
	2.01	0.00	10.50	0.00	73.00
3	2.01	23.00	10.50	25.00	330.00
	2.01	23.00	10.50	0.00	73.00
	2.01	0.00	10.50	25.00	330.00
	2.01	0.00	10.50	0.00	73.00
	2.01	-23.00	-10.50	25.00	330.00
	2.01	-23.00	-10.50	0.00	73.00
	2.01	-23.00	10.50	25.00	330.00
	2.01	-23.00	10.50	0.00	73.00
	2.01	0.00	10.50	25.00	330.00
	2.01	0.00	10.50	0.00	73.00
4	2.01	10.50	-23.00	25.00	330.00
	2.01	10.50	-23.00	0.00	73.00
	2.01	-10.50	-23.00	25.00	330.00
	2.01	-10.50	-23.00	0.00	73.00
	2.01	-10.50	0.00	25.00	330.00
	2.01	-10.50	0.00	0.00	73.00
	2.01	-10.50	23.00	25.00	330.00
	2.01	-10.50	23.00	0.00	73.00
	2.01	10.50	23.00	25.00	330.00
	2.01	10.50	23.00	0.00	73.00
5	2.01	10.50	0.00	25.00	330.00
	2.01	10.50	0.00	0.00	73.00
	2.01	-10.50	-23.00	25.00	330.00
	2.01	-10.50	-23.00	0.00	73.00
	2.01	-10.50	0.00	25.00	330.00
	2.01	-10.50	0.00	0.00	73.00
	2.01	-10.50	23.00	25.00	330.00
	2.01	-10.50	23.00	0.00	73.00
	2.01	10.50	23.00	25.00	330.00
	2.01	10.50	23.00	0.00	73.00

6	2.01	-10.50	23.00	0.00	73.00
	2.01	10.50	23.00	25.00	330.00
	2.01	10.50	23.00	0.00	73.00
	2.01	10.50	0.00	25.00	330.00
	2.01	10.50	0.00	0.00	73.00
	2.01	10.50	-23.00	25.00	330.00
	2.01	10.50	-23.00	0.00	73.00
	2.01	-10.50	-23.00	25.00	330.00
	2.01	-10.50	-23.00	0.00	73.00
	2.01	-10.50	0.00	25.00	330.00
7	2.01	-10.50	0.00	0.00	73.00
	2.01	-10.50	23.00	25.00	330.00
	2.01	-10.50	23.00	0.00	73.00
	2.01	10.50	23.00	25.00	330.00
	2.01	10.50	23.00	0.00	73.00
	2.01	10.50	0.00	25.00	330.00
	2.01	10.50	0.00	0.00	73.00
	2.01	23.00	-10.50	25.00	330.00
	2.01	23.00	-10.50	0.00	73.00
	2.01	0.00	-10.50	25.00	330.00
8	2.01	0.00	-10.50	0.00	73.00
	2.01	-23.00	-10.50	25.00	330.00
	2.01	-23.00	-10.50	0.00	73.00
	2.01	-23.00	10.50	25.00	330.00
	2.01	-23.00	10.50	0.00	73.00
	2.01	0.00	10.50	25.00	330.00
	2.01	0.00	10.50	0.00	73.00
	2.01	23.00	10.50	25.00	330.00
	2.01	23.00	10.50	0.00	73.00
	2.01	10.50	-23.00	25.00	330.00
9	2.01	10.50	-23.00	0.00	73.00
	2.01	-10.50	-23.00	25.00	330.00
	2.01	-10.50	-23.00	0.00	73.00
	2.01	-10.50	0.00	25.00	330.00
	2.01	-10.50	0.00	0.00	73.00
	2.01	-10.50	23.00	25.00	330.00
	2.01	-10.50	23.00	0.00	73.00
	2.01	10.50	23.00	25.00	330.00
	2.01	10.50	23.00	0.00	73.00
	2.01	10.50	0.00	25.00	330.00
10	2.01	10.50	0.00	0.00	73.00
	2.01	10.50	-23.00	25.00	330.00
	2.01	10.50	-23.00	0.00	73.00
	2.01	-10.50	-23.00	25.00	330.00
	2.01	-10.50	-23.00	0.00	73.00
	2.01	-10.50	0.00	25.00	330.00
	2.01	-10.50	0.00	0.00	73.00
	2.01	-10.50	23.00	25.00	330.00
	2.01	-10.50	23.00	0.00	73.00
	2.01	10.50	23.00	25.00	330.00
11	2.01	10.50	23.00	0.00	73.00
	2.01	10.50	0.00	25.00	330.00
	2.01	10.50	0.00	0.00	73.00
	2.01	23.00	-10.50	25.00	330.00
	2.01	23.00	-10.50	0.00	73.00
	2.01	0.00	-10.50	25.00	330.00
	2.01	0.00	-10.50	0.00	73.00
	2.01	23.00	10.50	25.00	330.00
	2.01	23.00	10.50	0.00	73.00
	2.01	0.00	10.50	25.00	330.00
12	2.01	23.00	-10.50	25.00	330.00
	2.01	23.00	-10.50	0.00	73.00

2.01	23.00	-10.50	0.00	73.00
2.01	0.00	-10.50	25.00	330.00
2.01	0.00	-10.50	0.00	73.00
2.01	-23.00	-10.50	25.00	330.00
2.01	-23.00	-10.50	0.00	73.00
2.01	-23.00	10.50	25.00	330.00
2.01	-23.00	10.50	0.00	73.00
2.01	0.00	10.50	25.00	330.00
2.01	0.00	10.50	0.00	73.00
2.01	23.00	10.50	25.00	330.00
2.01	23.00	10.50	0.00	73.00

#### Armatura trasversale negli elementi

Elemento	Ascissa iniz. (cm)	Lunghezza tratto (cm)	Area orizz. (cm2)	Area vert. (cm2)	Passo (cm)
1	25.00	59.28	1.01	1.51	9.00
	84.28	191.43	1.01	1.01	14.00
	275.72	59.28	1.01	1.51	9.00
	335.00	20.00	1.01	1.01	14.00
2	25.00	59.28	1.01	1.51	9.00
	84.28	191.43	1.01	1.01	14.00
	275.72	59.28	1.01	1.51	9.00
	335.00	20.00	1.01	1.01	14.00
3	25.00	59.28	1.51	1.01	7.00
	84.28	191.43	1.01	1.01	14.00
	275.72	59.28	1.51	1.01	7.00
	335.00	20.00	1.01	1.01	14.00
4	25.00	59.28	1.51	1.01	7.00
	84.28	191.43	1.01	1.01	14.00
	275.72	59.28	1.51	1.01	7.00
	335.00	20.00	1.01	1.01	14.00
5	25.00	59.28	1.51	1.01	7.00
	84.28	191.43	1.01	1.01	14.00
	275.72	59.28	1.51	1.01	7.00
	335.00	20.00	1.01	1.01	14.00
6	25.00	59.28	1.51	1.01	7.00
	84.28	191.43	1.01	1.01	14.00
	275.72	59.28	1.51	1.01	7.00
	335.00	20.00	1.01	1.01	14.00
7	25.00	59.28	1.01	1.51	9.00
	84.28	191.43	1.01	1.01	14.00
	275.72	59.28	1.01	1.51	9.00
	335.00	20.00	1.01	1.01	14.00
8	25.00	59.28	1.51	1.01	7.00
	84.28	191.43	1.01	1.01	14.00
	275.72	59.28	1.51	1.01	7.00
	335.00	20.00	1.01	1.01	14.00
9	25.00	59.28	1.51	1.01	7.00
	84.28	191.43	1.01	1.01	14.00
	275.72	59.28	1.51	1.01	7.00
	335.00	20.00	1.01	1.01	14.00
10	25.00	59.28	1.51	1.01	7.00
	84.28	191.43	1.01	1.01	14.00
	275.72	59.28	1.51	1.01	7.00
	335.00	20.00	1.01	1.01	14.00
11	25.00	59.28	1.51	1.01	7.00
	84.28	191.43	1.01	1.01	14.00
	275.72	59.28	1.51	1.01	7.00
	335.00	20.00	1.01	1.01	14.00
12	25.00	59.28	1.01	1.51	9.00
	84.28	191.43	1.01	1.01	14.00
	275.72	59.28	1.01	1.51	9.00
	335.00	20.00	1.01	1.01	14.00

#### Verifica momento ultimo

Elem	P/T	Qta	Ascissa (cm)	Nx ( kg)	Mz ( kgxcm)	My ( kgxcm)	Fattore sicurezza	Comb.
1	P		27.00	3918.25	755346.61	58904.45	1.53	1
			177.50	3447.94	286679.57	-4984.65	4.01	1
			333.00	4515.07	511001.30	50019.52	2.26	8
2	P		27.00	3918.25	-755346.61	58904.45	1.53	6
			177.50	3447.94	-286679.57	-4984.65	4.01	6



		333.00	4515.07	-511001.30	50019.52	2.26	3
3	P	27.00	9108.65	-225299.40	189700.34	2.59	6
		177.50	8901.93	-89102.91	-54669.61	6.69	8
		333.00	8712.11	-83302.96	-404772.28	2.77	13
4	P	27.00	9108.65	225299.40	189700.34	2.59	1
		177.50	8901.93	89102.91	-54669.61	6.69	3
		333.00	8712.11	83302.96	-404772.28	2.77	11
5	P	27.00	12108.75	-230286.33	159201.75	2.69	6
		177.50	11723.86	-94565.73	-40120.78	6.69	8
		333.00	11627.62	-93512.74	-359784.78	3.08	13
6	P	27.00	12108.75	230286.33	159201.75	2.69	1
		177.50	11723.86	94565.73	-40120.78	6.69	3
		333.00	11627.62	93512.74	-359784.78	3.08	11
7	P	27.00	3918.25	755346.61	-58904.45	1.53	7
		177.50	3447.94	286679.57	4984.65	4.01	7
		333.00	4515.07	511001.30	-50019.52	2.26	2
8	P	27.00	9108.65	225299.40	-189700.34	2.59	7
		177.50	8901.93	89102.91	54669.61	6.69	5
		333.00	8712.11	83302.96	404772.28	2.77	16
9	P	27.00	12108.75	230286.33	-159201.75	2.69	7
		177.50	11723.86	94565.73	40120.78	6.69	5
		333.00	11627.62	93512.74	359784.78	3.08	16
10	P	27.00	12108.75	-230286.33	-159201.75	2.69	4
		177.50	11723.86	-94565.73	40120.78	6.69	2
		333.00	11627.62	-93512.74	359784.78	3.08	10
11	P	27.00	9108.65	-225299.40	-189700.34	2.59	4
		177.50	8901.93	-89102.91	54669.61	6.69	2
		333.00	8712.11	-83302.96	404772.28	2.77	10
12	P	27.00	3918.25	-755346.61	-58904.45	1.53	4
		177.50	3447.94	-286679.57	4984.65	4.01	4
		333.00	4515.07	-511001.30	-50019.52	2.26	5

**Minimo fattore di sicurezza:** 1.529358 >= 1.00

Per ogni elemento **Elem** di tipo **P**(ilastro) o **T**(rave) a quota (opzionale) di riferimento **Qta** viene calcolato, all'ascissa **Ascissa**, il momento ultimo **Mr** nella direzione di sollecitazione risultante e viene esposto il **Fattore sicurezza**, cioè **Mr/Me**, relativo alla combinazione **COMB** che ha generato il minore fattore di sicurezza. Vengono esposte le sollecitazioni **Md** nelle componenti assiale **Nx** e flessionale **Mz** e **My** di tale combinazione (vedi Combinazioni Progetto). Se il fattore di sicurezza è maggiore di 10.0, viene riportata la dicitura >10.0 per evitare la stampa di numeri inutilmente grandi.

#### Verifica taglio ultimo

Elem	P/T	Qta	Ascissa (cm)	Ty ( kg)	Tz ( kg)	Vr ( kg)	Fattore sicurezza	Comb.
1	P		27.00	3523.86	-29.36	30698.34	8.71	6
			177.50	3597.65	391.38	24249.88	6.70	8
			333.00	3523.86	-29.36	34423.28	9.77	6
2	P		27.00	-3523.86	-29.36	30698.34	8.71	1
			177.50	3114.07	-424.51	25841.24	8.22	6
			333.00	-3523.86	-29.36	34423.28	9.77	1
3	P		27.00	-351.57	-2637.63	37758.33	> 10.00	13
			177.50	-489.90	1999.53	31455.30	> 10.00	10
			333.00	227.08	-2776.19	37396.04	> 10.00	15
4	P		27.00	351.57	-2637.63	37758.33	> 10.00	11
			177.50	489.90	1999.53	31455.30	> 10.00	16
			333.00	-227.08	-2776.19	37396.04	> 10.00	9
5	P		27.00	-425.81	-2562.22	37302.73	> 10.00	13
			177.50	-1138.45	-1065.17	18505.76	> 10.00	5
			333.00	186.44	-2568.10	37263.52	> 10.00	15
6	P		27.00	425.81	-2562.22	37302.73	> 10.00	11
			177.50	1138.45	-1065.17	18505.76	> 10.00	2
			333.00	-186.44	-2568.10	37263.52	> 10.00	9
7	P		27.00	3523.86	29.36	30698.34	8.71	4
			177.50	3597.65	-391.38	24249.88	6.70	2
			333.00	3523.86	29.36	34423.28	9.77	4
8	P		27.00	351.57	2637.63	37758.33	> 10.00	16
			177.50	489.90	-1999.53	31455.30	> 10.00	11
			333.00	-227.08	2776.19	37396.04	> 10.00	14
9	P		27.00	425.81	2562.22	37302.73	> 10.00	16
			177.50	1138.45	1065.17	18505.76	> 10.00	8
			333.00	-186.44	2568.10	37263.52	> 10.00	14
10	P		27.00	-425.81	2562.22	37302.73	> 10.00	10
			177.50	-1138.45	1065.17	18505.76	> 10.00	3

		333.00	186.44	2568.10	37263.52	> 10.00	12
11	P	27.00	-351.57	2637.63	37758.33	> 10.00	10
		177.50	-489.90	-1999.53	31455.30	> 10.00	13
		333.00	227.08	2776.19	37396.04	> 10.00	12
12	P	27.00	-3523.86	29.36	30698.34	8.71	7
		177.50	-3597.65	-391.38	24249.88	6.70	5
		333.00	-3523.86	29.36	34423.28	9.77	7

**Minimo fattore di sicurezza:** 6.700944 >= 1.00

Per ogni elemento **Elem** di tipo **P**(ilastro) o **T**(rave) a quota (opzionale) di riferimento **Qta** viene calcolato, all'ascissa **Ascissa**, il taglio ultimo **Tr** nella direzione di sollecitazione risultante e viene esposto il **Fattore sicurezza**, cioè **Tr/Te**, relativo alla combinazione **Comb** che ha generato il minore fattore di sicurezza. Vengono esposte le sollecitazioni **Td** nelle componenti assiale **Ty** e **Tz** di tale combinazione (vedi Combinazioni Progetto). Se il fattore di sicurezza è maggiore di 10.0, viene riportata la dicitura **>10.0** per evitare la stampa di numeri inutilmente grandi.

#### Verifica a torsione

Elem	P/T	Qta	Ascissa (cm)	Comb.	Td ( kgxcm)	Tr ( kgxcm)	Vd ( kg)	Vr ( kg)	Fs
1	P		27.00	8	-2973.94	497171.96	3618.87	36025.19	9.40
			177.50	8	-2973.94	277611.43	3618.87	24249.88	6.25
			333.00	8	-2973.94	277611.43	3618.87	24249.88	6.25
2	P		27.00	3	2973.94	497171.96	3618.87	36025.19	9.40
			177.50	3	2973.94	277611.43	3618.87	24249.88	6.25
			333.00	3	2973.94	277611.43	3618.87	24249.88	6.25
3	P		27.00	14	-2973.94	563686.64	1726.36	36498.42	> 10.00
			177.50	14	-2973.94	563686.64	1726.36	36498.42	> 10.00
			333.00	14	-2973.94	563686.64	1726.36	36498.42	> 10.00
4	P		27.00	14	-2973.94	563686.64	1863.08	40931.13	> 10.00
			177.50	14	-2973.94	563686.64	1863.08	40931.13	> 10.00
			333.00	14	-2973.94	563686.64	1863.08	40931.13	> 10.00
5	P		27.00	14	-2973.94	563686.64	1746.98	34609.10	> 10.00
			177.50	14	-2973.94	563686.64	1746.98	34609.10	> 10.00
			333.00	14	-2973.94	563686.64	1746.98	34609.10	> 10.00
6	P		27.00	14	-2973.94	563686.64	1956.73	41443.86	> 10.00
			177.50	14	-2973.94	563686.64	1956.73	41443.86	> 10.00
			333.00	14	-2973.94	563686.64	1956.73	41443.86	> 10.00
7	P		27.00	2	2973.94	497171.96	3618.87	36025.19	9.40
			177.50	2	2973.94	277611.43	3618.87	24249.88	6.25
			333.00	2	2973.94	277611.43	3618.87	24249.88	6.25
8	P		27.00	14	-2973.94	563686.64	2785.46	40816.52	> 10.00
			177.50	14	-2973.94	563686.64	2785.46	40816.52	> 10.00
			333.00	14	-2973.94	563686.64	2785.46	40816.52	> 10.00
9	P		27.00	14	-2973.94	563686.64	2574.86	41386.38	> 10.00
			177.50	14	-2973.94	563686.64	2574.86	41386.38	> 10.00
			333.00	14	-2973.94	563686.64	2574.86	41386.38	> 10.00
10	P		27.00	14	-2973.94	563686.64	2349.34	36674.16	> 10.00
			177.50	14	-2973.94	563686.64	2349.34	36674.16	> 10.00
			333.00	14	-2973.94	563686.64	2349.34	36674.16	> 10.00
11	P		27.00	14	-2973.94	563686.64	2379.23	38594.24	> 10.00
			177.50	14	-2973.94	563686.64	2379.23	38594.24	> 10.00
			333.00	14	-2973.94	563686.64	2379.23	38594.24	> 10.00
12	P		27.00	5	-2973.94	497171.96	3618.87	36025.19	9.40
			177.50	5	-2973.94	277611.43	3618.87	24249.88	6.25
			333.00	5	-2973.94	277611.43	3618.87	24249.88	6.25

**Minimo fattore di sicurezza:** 6.252138 >= 1.00

Per ogni elemento **Elem** di tipo **P**(ilastro) o **T**(rave) a quota (opzionale) di riferimento **Qta** viene calcolato, all'ascissa **Ascissa**, per ogni combinazione di carico il fattore di sicurezza combinato taglio-torsione **Fs** e vengono esposti dati e risultati relativi alla combinazione **Comb**, per la quale si è ottenuto il fattore di sicurezza minimo. Vengono esposti i momenti torcenti agenti **Td** e resistenti **Tr** ed i valori di taglio combinato agente **Vd** e resistente **Vr**. Se il fattore di sicurezza è maggiore di 10.0, viene riportata la dicitura **>10.0** per evitare la stampa di numeri inutilmente grandi. In caso sia segnalato **Verifica non effettuata** (che non indica una verifica non soddisfatta ma una impossibilità a effettuarla) il valore finale non tiene conto di tale verifica.

#### Verifica stato limite di esercizio - fessurazione

Elemento	Ascissa (cm)	Ampiezza Fess. (mm)	Dist.fessure (mm)	Momenti agenti		Momenti prima fessurazione		Comb.	Tipo
				Mz ( kgxcm)	My ( kgxcm)	Mz ( kgxcm)	My ( kgxcm)		
1	27.00	3.93e-003	127.12	82733.61	-5418.43	380574.48	199668.22	1	qprm
	27.00	4.02e-003	127.12	85300.29	-4961.88	380574.48	199668.22	2	freq
	177.50	1.13e-002	127.12	119123.20	-7911.99	380574.48	199668.22	1	qprm
	177.50	1.15e-002	127.12	121922.59	-8197.84	380574.48	199668.22	2	freq
	333.00	2.02e-002	127.12	156721.75	-10488.39	380574.48	199668.22	1	qprm
	333.00	2.06e-002	127.12	159761.58	-11541.31	380574.48	199668.22	2	freq
2	27.00	3.93e-003	127.12	-82733.61	-5418.43	380574.48	199668.22	1	qprm
	27.00	4.02e-003	127.12	-85300.29	-4961.88	380574.48	199668.22	2	freq
	177.50	1.13e-002	127.12	-119123.20	-7911.99	380574.48	199668.22	1	qprm
	177.50	1.15e-002	127.12	-121922.59	-8197.84	380574.48	199668.22	2	freq

	333.00	2.02e-002	127.12	-156721.75	-10488.39	380574.48	199668.22	1	qprm
	333.00	2.06e-002	127.12	-159761.58	-11541.31	380574.48	199668.22	2	freq
3	177.50	1.07e-003	127.12	-38758.62	-46995.98	199668.22	380574.48	1	qprm
	177.50	1.07e-003	127.12	-38758.62	-46995.98	199668.22	380574.48	3	freq
	333.00	9.13e-003	127.12	-59193.36	-107381.52	199668.22	380574.48	1	qprm
	333.00	9.22e-003	127.12	-59311.78	-112939.18	199668.22	380574.48	2	freq
4	177.50	1.07e-003	127.12	38758.62	-46995.98	199668.22	380574.48	1	qprm
	177.50	1.07e-003	127.12	38758.62	-46995.98	199668.22	380574.48	3	freq
	333.00	9.62e-003	127.12	59193.36	-107381.52	199668.22	380574.48	1	qprm
	333.00	1.13e-002	127.12	59311.78	-112939.18	199668.22	380574.48	2	freq
5	333.00	4.12e-003	127.12	-63993.53	-72469.09	199668.22	380574.48	1	qprm
	333.00	4.12e-003	127.12	-63993.53	-72469.09	199668.22	380574.48	3	freq
6	333.00	4.12e-003	127.12	63993.53	-72469.09	199668.22	380574.48	1	qprm
	333.00	4.12e-003	127.12	63993.53	-72469.09	199668.22	380574.48	3	freq
7	27.00	3.93e-003	127.12	82733.61	5418.43	380574.48	199668.22	1	qprm
	27.00	4.02e-003	127.12	85300.29	4961.88	380574.48	199668.22	2	freq
	177.50	1.13e-002	127.12	119123.20	7911.99	380574.48	199668.22	1	qprm
	177.50	1.15e-002	127.12	121922.59	8197.84	380574.48	199668.22	2	freq
	333.00	2.02e-002	127.12	156721.75	10488.39	380574.48	199668.22	1	qprm
	333.00	2.06e-002	127.12	159761.58	11541.31	380574.48	199668.22	2	freq
8	177.50	1.07e-003	127.12	38758.62	46995.98	199668.22	380574.48	1	qprm
	177.50	1.07e-003	127.12	38758.62	46995.98	199668.22	380574.48	3	freq
	333.00	9.13e-003	127.12	59193.36	107381.52	199668.22	380574.48	1	qprm
	333.00	9.22e-003	127.12	59311.78	112939.18	199668.22	380574.48	2	freq
9	333.00	4.12e-003	127.12	63993.53	72469.09	199668.22	380574.48	1	qprm
	333.00	4.12e-003	127.12	63993.53	72469.09	199668.22	380574.48	3	freq
10	333.00	4.12e-003	127.12	-63993.53	72469.09	199668.22	380574.48	1	qprm
	333.00	4.12e-003	127.12	-63993.53	72469.09	199668.22	380574.48	3	freq
11	177.50	1.07e-003	127.12	-38758.62	46995.98	199668.22	380574.48	1	qprm
	177.50	1.07e-003	127.12	-38758.62	46995.98	199668.22	380574.48	3	freq
	333.00	9.13e-003	127.12	-59193.36	107381.52	199668.22	380574.48	1	qprm
	333.00	9.22e-003	127.12	-59311.78	112939.18	199668.22	380574.48	2	freq
12	27.00	3.93e-003	127.12	-82733.61	5418.43	380574.48	199668.22	1	qprm
	27.00	4.02e-003	127.12	-85300.29	4961.88	380574.48	199668.22	2	freq
	177.50	1.13e-002	127.12	-119123.20	7911.99	380574.48	199668.22	1	qprm
	177.50	1.15e-002	127.12	-121922.59	8197.84	380574.48	199668.22	2	freq
	333.00	3.08e-002	127.12	-156721.75	10488.39	380574.48	199668.22	1	qprm
	333.00	3.25e-002	127.12	-159761.58	11541.31	380574.48	199668.22	2	freq

### Verifica stato limite di esercizio - tensioni massime nel calcestruzzo

Elemento	Ascissa (cm)	Tensione ( kg/cm2)	Combinazione rara			Combinazione quasi permanente			
			Mz ( kgxcm)	My ( kgxcm)	Comb.	Tensione ( kg/cm2)	Mz ( kgxcm)	My ( kgxcm)	Comb.
1	27.00	-13.00	95567.04	-3135.66	4	-11.82	82733.61	-5418.43	1
	177.50	-19.47	133120.18	-9341.23	4	-17.33	119123.20	-7911.99	1
	333.00	-26.38	171920.94	-15752.96	4	-23.01	156721.75	-10488.39	1
2	27.00	-13.00	-95567.04	-3135.66	4	-11.82	-82733.61	-5418.43	1
	177.50	-19.47	-133120.18	-9341.23	4	-17.33	-119123.20	-7911.99	1
	333.00	-26.38	-171920.94	-15752.96	4	-23.01	-156721.75	-10488.39	1
3	27.00	-13.23	-24336.09	18705.22	4	-10.65	-18980.95	11447.90	1
	177.50	-18.53	-41771.16	-56975.13	4	-16.11	-38758.62	-46995.98	1
	333.00	-30.30	-59785.47	-135169.78	4	-26.80	-59193.36	-107381.52	1
4	27.00	-13.23	24336.09	18705.22	4	-10.65	18980.95	11447.90	1
	177.50	-18.53	41771.16	-56975.13	4	-16.11	38758.62	-46995.98	1
	333.00	-30.30	59785.47	-135169.78	4	-26.80	59193.36	-107381.52	1
5	27.00	-16.37	-26677.63	25482.22	4	-13.36	-19934.80	20915.23	1
	177.50	-19.12	-44935.77	-30584.62	4	-16.53	-41604.21	-25013.99	1
	333.00	-26.70	-63800.49	-88514.15	4	-24.20	-63993.53	-72469.09	1
6	27.00	-16.37	26677.63	25482.22	4	-13.36	19934.80	20915.23	1
	177.50	-19.12	44935.77	-30584.62	4	-16.53	41604.21	-25013.99	1
	333.00	-26.70	63800.49	-88514.15	4	-24.20	63993.53	-72469.09	1
7	27.00	-13.00	95567.04	3135.66	4	-11.82	82733.61	5418.43	1
	177.50	-19.47	133120.18	9341.23	4	-17.33	119123.20	7911.99	1
	333.00	-26.38	171920.94	15752.96	4	-23.01	156721.75	10488.39	1
8	27.00	-13.23	24336.09	-18705.22	4	-10.65	18980.95	-11447.90	1
	177.50	-18.53	41771.16	56975.13	4	-16.11	38758.62	46995.98	1
	333.00	-30.30	59785.47	135169.78	4	-26.80	59193.36	107381.52	1
9	27.00	-16.37	26677.63	-25482.22	4	-13.36	19934.80	-20915.23	1
	177.50	-19.12	44935.77	30584.62	4	-16.53	41604.21	25013.99	1

	333.00	-26.70	63800.49	88514.15	4	-24.20	63993.53	72469.09	1
10	27.00	-16.37	-26677.63	-25482.22	4	-13.36	-19934.80	-20915.23	1
	177.50	-19.12	-44935.77	30584.62	4	-16.53	-41604.21	25013.99	1
	333.00	-26.70	-63800.49	88514.15	4	-24.20	-63993.53	72469.09	1
11	27.00	-13.23	-24336.09	-18705.22	4	-10.65	-18980.95	-11447.90	1
	177.50	-18.53	-41771.16	56975.13	4	-16.11	-38758.62	46995.98	1
	333.00	-30.30	-59785.47	135169.78	4	-26.80	-59193.36	107381.52	1
12	27.00	-13.00	-95567.04	3135.66	4	-11.82	-82733.61	5418.43	1
	177.50	-19.47	-133120.18	9341.23	4	-17.33	-119123.20	7911.99	1
	333.00	-26.38	-171920.94	15752.96	4	-23.01	-156721.75	10488.39	1

#### Verifica stato limite di esercizio - tensioni massime nell'acciaio

Elemento	Ascissa (cm)	Tensione ( kg/cm2)	Combinazione rara			Comb.	Combinazione quasi permanente			Comb.
			Mz ( kgxcm)	My ( kgxcm)			Tensione ( kg/cm2)	Mz ( kgxcm)	My ( kgxcm)	
1	27.00	181.67	95567.04	-3135.66		4	164.53	82733.61	-5418.43	1
	177.50	298.88	133120.18	-9341.23		4	273.26	119123.20	-7911.99	1
	333.00	534.55	171920.94	-15752.96		4	490.41	156721.75	-10488.39	1
2	27.00	181.67	-95567.04	-3135.66		4	164.53	-82733.61	-5418.43	1
	177.50	298.88	-133120.18	-9341.23		4	273.26	-119123.20	-7911.99	1
	333.00	534.55	-171920.94	-15752.96		4	490.41	-156721.75	-10488.39	1
3	27.00	188.20	-24336.09	18705.22		4	152.02	-18980.95	11447.90	1
	177.50	257.63	-41771.16	-56975.13		4	223.37	-38758.62	-46995.98	1
	333.00	412.07	-59785.47	-135169.78		4	362.18	-59193.36	-107381.52	1
4	27.00	188.20	24336.09	18705.22		4	152.02	18980.95	11447.90	1
	177.50	257.63	41771.16	-56975.13		4	223.37	38758.62	-46995.98	1
	333.00	412.07	59785.47	-135169.78		4	362.18	59193.36	-107381.52	1
5	27.00	233.79	-26677.63	25482.22		4	191.39	-19934.80	20915.23	1
	177.50	268.10	-44935.77	-30584.62		4	230.95	-41604.21	-25013.99	1
	333.00	368.17	-63800.49	-88514.15		4	331.14	-63993.53	-72469.09	1
6	27.00	233.79	26677.63	25482.22		4	191.39	19934.80	20915.23	1
	177.50	268.10	44935.77	-30584.62		4	230.95	41604.21	-25013.99	1
	333.00	368.17	63800.49	-88514.15		4	331.14	63993.53	-72469.09	1
7	27.00	181.67	95567.04	3135.66		4	164.53	82733.61	5418.43	1
	177.50	298.88	133120.18	9341.23		4	273.26	119123.20	7911.99	1
	333.00	534.55	171920.94	15752.96		4	490.41	156721.75	10488.39	1
8	27.00	188.20	24336.09	-18705.22		4	152.02	18980.95	-11447.90	1
	177.50	257.63	41771.16	56975.13		4	223.37	38758.62	46995.98	1
	333.00	412.07	59785.47	135169.78		4	362.18	59193.36	107381.52	1
9	27.00	233.79	26677.63	-25482.22		4	191.39	19934.80	-20915.23	1
	177.50	268.10	44935.77	30584.62		4	230.95	41604.21	25013.99	1
	333.00	368.17	63800.49	88514.15		4	331.14	63993.53	72469.09	1
10	27.00	233.79	-26677.63	-25482.22		4	191.39	-19934.80	-20915.23	1
	177.50	268.10	-44935.77	30584.62		4	230.95	-41604.21	25013.99	1
	333.00	368.17	-63800.49	88514.15		4	331.14	-63993.53	72469.09	1
11	27.00	188.20	-24336.09	-18705.22		4	152.02	-18980.95	-11447.90	1
	177.50	257.63	-41771.16	56975.13		4	223.37	-38758.62	46995.98	1
	333.00	412.07	-59785.47	135169.78		4	362.18	-59193.36	107381.52	1
12	27.00	181.67	-95567.04	3135.66		4	164.53	-82733.61	5418.43	1
	177.50	298.88	-133120.18	9341.23		4	273.26	-119123.20	7911.99	1
	333.00	534.55	-171920.94	15752.96		4	490.41	-156721.75	10488.39	1

#### Verifica taglio da azione sismica

Elem	Piano locale xy				Piano locale xz				Coeff. Sic.
	Msx ( kgxcm)	Mdx ( kgxcm)	Tsx ( kg)	Tdx ( kg)	Msx ( kgxcm)	Mdx ( kgxcm)	Tsx ( kg)	Tdx ( kg)	
1	1175796.53	1175796.53	-8344.36	-8344.36	561544.21	561544.21	-3985.15	-3985.15	3.46
2	1175796.53	1175796.53	-8344.36	-8344.36	561544.21	561544.21	-3985.15	-3985.15	3.46
3	616311.24	616311.24	-4373.82	-4373.82	1282226.39	1282226.39	-9099.67	-9099.67	3.23
4	616311.24	616311.24	-4373.82	-4373.82	1282226.39	1282226.39	-9099.67	-9099.67	3.23
5	642633.62	642633.62	-4560.63	-4560.63	1321757.48	1321757.48	-9380.21	-9380.21	3.16
6	642633.62	642633.62	-4560.63	-4560.63	1321757.48	1321757.48	-9380.21	-9380.21	3.16
7	1175796.53	1175796.53	-8344.36	-8344.36	561544.21	561544.21	-3985.15	-3985.15	3.46
8	616311.24	616311.24	-4373.82	-4373.82	1282226.39	1282226.39	-9099.67	-9099.67	3.23
9	642633.62	642633.62	-4560.63	-4560.63	1321757.48	1321757.48	-9380.21	-9380.21	3.16

10	642633.62	642633.62	-4560.63	-4560.63	1321757.48	1321757.48	-9380.21	-9380.21	3.16
11	616311.24	616311.24	-4373.82	-4373.82	1282226.39	1282226.39	-9099.67	-9099.67	3.23
12	1175796.53	1175796.53	-8344.36	-8344.36	561544.21	561544.21	-3985.15	-3985.15	3.46

**Minimo fattore di sicurezza:** 3.155275 >= 1.00

Per ogni elemento **Elem** e per ogni **Piano locale xy e xz** dell'elemento, vengono calcolati i momenti ultimi **Msx** e **Mdx** ai due estremi (sinistro **sx** e destro **dx**) tenendo conto per ogni combinazione di carico dell'azione assiale. Da questi vengono calcolati i tagli MASSIMI **Tsx** e **Tdx** derivanti dai due versi di sbandamento tenendo anche conto delle azioni dovute ai carichi gravitazionali. Qui vengono esposti i momenti ultimi MINIMI alle estremità per tutte le condizioni di carico e per i due versi di sbandamento. Vengono esposti anche i tagli MASSIMI alle estremità derivanti da questi meccanismi. Viene quindi esposto il **Coefficiente di Sicurezza MINIMO** delle verifiche a taglio dalle azioni suddette.

## Verifica contenimento del danno

Stato limite:	Stato limite di danno
Valore di riferimento:	0.000000
Moltiplicatore degli spostamenti:	1.000000
Quota (cm)	Spostamento relativo
<b>Valore massimo:</b>	<b>0.001353</b>
375.00	0.001353

## 2. TRAVI DI COPERTURA

### Spogliatoio.sap

All-In-One EWS 47 (03.04.2018) build 7089  
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## Parametri di progetto

Normativa		
Normativa di riferimento		DM 2018 - Zona sismica - Bassa Duttilità
Unità di misura		
Lunghezza		cm
Forza		kg
Pressione		kg/cm2
Metodo di progetto		
Metodo	Stati limite	
Fattori sicurezza parziale		
Calcestruzzo		1.50
Acciaio		1.15
Legami costitutivi		
Asse parabola calcestruzzo (x1000)		2.00
Fattore di riduzione addizionale		0.85
Deformazione ultima calcestruzzo (x1000)		3.50
Deformazione ultima acciaio (x1000)		10.00
Incremento resistenza acciaio		0.00
Opzioni di progetto		
Considerata l'eccentricità accidentale sui pilastri		NO
Considerata la traslazione del diagramma dei momenti		SI
Armatura longitudinale		
Lunghezza massima barre	cm	1200.00
Massima distanza barre	cm	1000.00
Diametri minimi di ancoraggio		20.00
Progetto antisismico		
Gerarchia delle resistenze		SI
Fattore di sicurezza per la gerarchia delle resistenze		1.10
Progetto per taglio dovuto ad azione sismica		SI
Progetto per duttilità dei pilastri-parete		SI
Minimi e massimi per le travi		
Armatura minima tesa		F1.40000
Armatura massima tesa		F3.50000
Armatura minima totale		0.000
Armatura massima totale		
Moltiplicatore di continuità dell'armatura in zona critica		0.00
Rapporto di bilanciamento di armatura		0.50
Lunghezza zona critica		H
Minimi e massimi per i pilastri		
Armatura minima totale		0.010
Armatura massima totale		0.040
Minimi e massimi per travi di fondazione		
Armatura minima totale		0.002
Modalità staffatura		
Staffe filo pilastro		SI
Passo massimo nelle travi		33.000,H0.8,P666.666
Passo massimo nei pilastri		25.000,D12
Infittimento staffe agli estremi		
Passo zona critica travi		H0.25,D8,22.500,S24

Lunghezza zona critica travi	H
Passo zona critica pilastri	D8,17.500,m0.5,p12.50000J
Lunghezza zona critica pilastri	M,L0.167,45.000

#### Abbreviazioni usate nelle regole di assegnazione

n	valore numerico
Hn	n volte altezza della sezione asse locale y
Ln	n moltiplica la lunghezza della trave
Dn	n volte il diametro minimo armatura
Sn	n volte il diametro della staffa
Pn	Ast/bst: rapporto tra area staffa e corda
Mn (maiuscolo)	dimensione massima della sezione
mn (minuscolo)	dimensione minima della sezione
Nn	moltiplicatore forza assiale di compressione
Fn	inverso della resistenza dell'acciaio

#### Calcestruzzi

Calcestruzzo Calcestruzzo		
Denominazione materiale		C25/30
Resistenza cubica	kg/cm2	305.91
Resistenza a compressione	kg/cm2	143.88
Resistenza a trazione frattile 5%	kg/cm2	12.09
Tensione di aderenza	kg/cm2	27.21

#### Acciai

Acciaio Calcestruzzo		
Denominazione materiale		B450C
Resistenza caratteristica acciaio	kg/cm2	4588.72
Resistenza di calcolo	kg/cm2	3990.19

#### Tipi di carico

Nome	Tipo	Grav.	Gamma fav	Gamma unfav.	Gamma sismico	Psi 0	Psi 1	Psi 2	Psi 2 sismico	Phi (coeff. correl.)
Permanente	permanente	*	1.00	1.50	1.00	nd	nd	nd	nd	nd
Sismico SLU	sismico	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Sismico SLD	sismico	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Torcente SLU	sismico correlato	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Torcente SLD	sismico correlato	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Cat. A: Residenziale	variabile	*	nd	1.30	1.00	0.70	0.50	0.30	0.30	1.00
Cat. B: Uffici	variabile	*	nd	1.30	1.00	0.70	0.50	0.30	0.30	1.00
Cat. C: Affollamento	variabile	*	nd	1.30	1.00	0.70	0.70	0.60	0.60	1.00
Cat. D: Commerciale	variabile	*	nd	1.30	1.00	0.70	0.70	0.60	0.60	1.00
Cat. E: Magazzini	variabile	*	nd	1.30	1.00	1.00	0.90	0.80	0.80	1.00
Cat. F: Rimessa (<30kN)	variabile	*	nd	1.30	1.00	0.70	0.70	0.60	0.60	1.00
Cat. G: Rimessa (>30kN)	variabile	*	nd	1.30	1.00	0.70	0.50	0.30	0.30	1.00
Cat. H: Copertura	variabile	*	nd	1.30	0.00	0.00	0.00	0.00	0.00	1.00
Neve (q<1000)	variabile	*	nd	1.30	1.00	0.50	0.20	0.00	0.00	1.00
Neve (q>1000)	variabile	*	nd	1.30	1.00	0.70	0.50	0.20	0.20	1.00
Vento	variabile non contemporaneo		nd	1.30	0.00	0.60	0.20	0.00	0.00	1.00
Torcente SLV	sismico correlato		nd	1.00	0.00	nd	nd	nd	nd	nd

#### Condizioni di carico

(Fase) Nome	Tipo
(1) Dinamica SLV Y	Sismico SLU
(1) Dinamica SLV X	Sismico SLU
(1) Dinamica SLD Y	Sismico SLD
(1) Dinamica SLD X	Sismico SLD
(1) Permanenti	Permanente
(1) Accidentali	Neve (q<1000)
(1) Torcente di piano SLV	Torcente SLV
(1) Torcente di piano SLD	Torcente SLD

#### Combinazioni di progetto dei carichi

1	-1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X
2	-1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
3	-1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X
4	-1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
5	1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X
6	1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
7	1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X
8	1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
9	-1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y
10	-1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
11	-1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y
12	-1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
13	1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y
14	1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
15	1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y

16	1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
17	1.30 * (1) Accidental + 1.50 * (1) Permanenti
18	1.50 * (1) Permanenti

#### Combinazioni di esercizio dei carichi

1	Quasi Perm.	1.00 * (1) Permanenti
2	Frequente	0.20 * (1) Accidental + 1.00 * (1) Permanenti
3	Frequente	1.00 * (1) Permanenti
4	Rara	1.00 * (1) Accidental + 1.00 * (1) Permanenti
5	Rara	1.00 * (1) Permanenti

#### Combinazioni di danno dei carichi

1	-1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLD X
2	-1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLD X
3	1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLD X
4	1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLD X
5	-1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLD Y
6	-1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLD Y
7	1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLD Y
8	1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLD Y

#### Elementi

Elemento	Dal nodo	Al nodo	Offset estremo sinistro (cm)			Offset estremo destro (cm)			Lunghezza (cm)
			x	y	z	x	y	z	
13	14	13	0.00	0.00	0.00	0.00	0.00	0.00	590.00
14	16	15	0.00	0.00	0.00	0.00	0.00	0.00	590.00
15	18	17	0.00	0.00	0.00	0.00	0.00	0.00	590.00
16	20	19	0.00	0.00	0.00	0.00	0.00	0.00	590.00
17	22	21	0.00	0.00	0.00	0.00	0.00	0.00	590.00
18	24	23	0.00	0.00	0.00	0.00	0.00	0.00	590.00
19	16	14	0.00	0.00	0.00	0.00	0.00	0.00	267.50
20	18	16	0.00	0.00	0.00	0.00	0.00	0.00	510.00
21	20	18	0.00	0.00	0.00	0.00	0.00	0.00	590.00
22	22	20	0.00	0.00	0.00	0.00	0.00	0.00	510.00
23	24	22	0.00	0.00	0.00	0.00	0.00	0.00	267.50
24	15	13	0.00	0.00	0.00	0.00	0.00	0.00	267.50
25	17	15	0.00	0.00	0.00	0.00	0.00	0.00	510.00
26	19	17	0.00	0.00	0.00	0.00	0.00	0.00	590.00
27	21	19	0.00	0.00	0.00	0.00	0.00	0.00	510.00
28	23	21	0.00	0.00	0.00	0.00	0.00	0.00	267.50

#### Sezioni

##### Sezione rettangolare

Elemento	Materiale	Altezza (cm)	Base (cm)
13	Calcestruzzo	40.00	25.00
14	Calcestruzzo	20.00	60.00
15	Calcestruzzo	20.00	60.00
16	Calcestruzzo	20.00	60.00
17	Calcestruzzo	20.00	60.00
18	Calcestruzzo	40.00	25.00
19	Calcestruzzo	40.00	25.00
20	Calcestruzzo	40.00	25.00
21	Calcestruzzo	40.00	25.00
22	Calcestruzzo	40.00	25.00
23	Calcestruzzo	40.00	25.00
24	Calcestruzzo	40.00	25.00
25	Calcestruzzo	40.00	25.00
26	Calcestruzzo	40.00	25.00
27	Calcestruzzo	40.00	25.00
28	Calcestruzzo	40.00	25.00

#### Sollecitazioni agli estremi degli elementi

##### Condizione "(1) Dinamica SLV Y"

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
13	-3.8910e-025	-1.0209e-010	0.0000e+000	-3.2851e-010	-1.7000e-012	3.0584e+003
	-3.8910e-025	-1.0209e-010	0.0000e+000	-3.2851e-010	-1.7000e-012	3.0584e+003
14	1.0938e-024	-3.3028e-011	0.0000e+000	-1.2301e-010	-1.1751e-011	2.6122e+002
	1.0938e-024	-3.3028e-011	0.0000e+000	-1.2301e-010	-1.1751e-011	2.6122e+002
15	1.1341e-024	-3.4198e-011	0.0000e+000	-1.4007e-011	-1.1751e-011	-3.8860e+000
	1.1341e-024	-3.4198e-011	0.0000e+000	-1.4007e-011	-1.1751e-011	-3.8860e+000

16	-1.1341e-024	-3.4236e-011	0.0000e+000	1.4007e-011	-1.1751e-011	3.8860e+000
	-1.1341e-024	-3.4236e-011	0.0000e+000	1.4007e-011	-1.1751e-011	3.8860e+000
17	-1.0938e-024	-3.3122e-011	0.0000e+000	1.1803e-010	-1.1751e-011	-2.6122e+002
	-1.0938e-024	-3.3122e-011	0.0000e+000	1.1803e-010	-1.1751e-011	-2.6122e+002
18	3.8910e-025	-1.0248e-010	0.0000e+000	3.2438e-010	-1.7000e-012	-3.0584e+003
	3.8910e-025	-1.0248e-010	0.0000e+000	3.2438e-010	-1.7000e-012	-3.0584e+003
19	7.8660e-012	-1.0896e+003	7.9708e-027	1.2198e+003	-3.2521e-024	1.7009e+005
	7.8660e-012	-1.0896e+003	7.9708e-027	1.2198e+003	-1.0348e-024	-1.2136e+005
20	3.4125e-012	-6.5024e+002	3.4880e-027	2.5845e+002	-9.0183e-025	1.6794e+005
	3.4125e-012	-6.5024e+002	3.4880e-027	2.5845e+002	8.5077e-025	-1.6368e+005
21	4.9229e-012	-5.0786e+002	0.0000e+000	-6.5495e+000	-1.9218e-025	1.4982e+005
	4.9229e-012	-5.0786e+002	0.0000e+000	-6.5495e+000	-1.8946e-025	-1.4982e+005
22	3.4125e-012	-6.5024e+002	-3.4824e-027	2.5845e+002	8.5225e-025	1.6368e+005
	3.4125e-012	-6.5024e+002	-3.4824e-027	2.5845e+002	-9.0183e-025	-1.6794e+005
23	7.8660e-012	-1.0896e+003	-7.9599e-027	1.2198e+003	-1.0348e-024	1.2136e+005
	7.8660e-012	-1.0896e+003	-7.9599e-027	1.2198e+003	-3.2521e-024	-1.7009e+005
24	-7.8660e-012	-1.0896e+003	7.9708e-027	-1.2198e+003	-3.2521e-024	1.7009e+005
	-7.8660e-012	-1.0896e+003	7.9708e-027	-1.2198e+003	-1.0348e-024	-1.2136e+005
25	-3.4125e-012	-6.5024e+002	3.4880e-027	-2.5845e+002	-9.0183e-025	1.6794e+005
	-3.4125e-012	-6.5024e+002	3.4880e-027	-2.5845e+002	8.5077e-025	-1.6368e+005
26	-4.9229e-012	-5.0786e+002	0.0000e+000	6.5495e+000	-1.9218e-025	1.4982e+005
	-4.9229e-012	-5.0786e+002	0.0000e+000	6.5495e+000	-1.8946e-025	-1.4982e+005
27	-3.4125e-012	-6.5024e+002	-3.4824e-027	-2.5845e+002	8.5225e-025	1.6368e+005
	-3.4125e-012	-6.5024e+002	-3.4824e-027	-2.5845e+002	-9.0183e-025	-1.6794e+005
28	-7.8660e-012	-1.0896e+003	-7.9599e-027	-1.2198e+003	-1.0348e-024	1.2136e+005
	-7.8660e-012	-1.0896e+003	-7.9599e-027	-1.2198e+003	-3.2521e-024	-1.7009e+005

#### Condizione "(1) Dinamica SLV X"

Elemento	Nx ( kg)	Ty ( kg)	Tz ( kg)	Mx ( kgxcm)	My ( kgxcm)	Mz ( kgxcm)
13	-4.6417e-012	-1.3085e+003	0.0000e+000	-4.2146e+003	-3.2701e-025	3.8600e+005
	-4.6417e-012	-1.3085e+003	0.0000e+000	-4.2146e+003	-3.2841e-025	-3.8600e+005
14	-1.2907e-012	-4.2326e+002	0.0000e+000	-1.5251e+003	-1.9086e-024	1.2486e+005
	-1.2907e-012	-4.2326e+002	0.0000e+000	-1.5251e+003	-1.9086e-024	-1.2486e+005
15	-1.1138e-011	-4.3786e+002	0.0000e+000	-1.6240e+002	-1.9086e-024	1.2917e+005
	-1.1138e-011	-4.3786e+002	0.0000e+000	-1.6240e+002	-1.9086e-024	-1.2917e+005
16	1.1138e-011	-4.3786e+002	0.0000e+000	1.6240e+002	-1.9086e-024	1.2917e+005
	1.1138e-011	-4.3786e+002	0.0000e+000	1.6240e+002	-1.9086e-024	-1.2917e+005
17	1.2907e-012	-4.2326e+002	0.0000e+000	1.5251e+003	-1.9086e-024	1.2486e+005
	1.2907e-012	-4.2326e+002	0.0000e+000	1.5251e+003	-1.9086e-024	-1.2486e+005
18	4.6417e-012	-1.3085e+003	0.0000e+000	4.2146e+003	-3.2701e-025	3.8600e+005
	4.6417e-012	-1.3085e+003	0.0000e+000	4.2146e+003	-3.2841e-025	-3.8600e+005
19	3.3042e-024	-2.4813e+002	1.0259e-013	5.3719e+002	3.8257e-011	3.8919e+004
	3.3042e-024	-2.4813e+002	1.0259e-013	5.3719e+002	4.5486e-011	-2.7455e+004
20	1.5961e-024	-4.2789e+000	4.7831e-014	-3.6496e+002	-1.4093e-011	2.7130e+003
	1.5961e-024	-4.2789e+000	4.7831e-014	-3.6496e+002	1.0301e-011	5.3081e+002
21	-1.5148e-024	-8.7484e-011	0.0000e+000	-7.6020e-012	-1.6388e-012	-3.3416e+002
	-1.5148e-024	-8.7484e-011	0.0000e+000	-7.6020e-012	-1.6388e-012	-3.3416e+002
22	1.5961e-024	4.2789e+000	-4.7831e-014	3.6496e+002	1.0301e-011	5.3081e+002
	1.5961e-024	4.2789e+000	-4.7831e-014	3.6496e+002	-1.4093e-011	2.7130e+003
23	3.3042e-024	2.4813e+002	-1.0259e-013	-5.3719e+002	4.5486e-011	-2.7455e+004
	3.3042e-024	2.4813e+002	-1.0259e-013	-5.3719e+002	3.8257e-011	3.8919e+004
24	-3.3042e-024	2.4813e+002	1.0259e-013	5.3719e+002	3.8257e-011	-3.8919e+004
	-3.3042e-024	2.4813e+002	1.0259e-013	5.3719e+002	4.5486e-011	2.7455e+004
25	-1.5961e-024	4.2789e+000	4.7831e-014	-3.6496e+002	-1.4093e-011	-2.7130e+003
	-1.5961e-024	4.2789e+000	4.7831e-014	-3.6496e+002	1.0301e-011	5.3081e+002
26	1.5148e-024	-8.7446e-011	0.0000e+000	-7.6020e-012	-1.6388e-012	3.3416e+002
	1.5148e-024	-8.7446e-011	0.0000e+000	-7.6020e-012	-1.6388e-012	3.3416e+002
27	-1.5961e-024	-4.2789e+000	-4.7831e-014	3.6496e+002	1.0301e-011	-5.3081e+002
	-1.5961e-024	-4.2789e+000	-4.7831e-014	3.6496e+002	-1.4093e-011	2.7130e+003
28	-3.3042e-024	-2.4813e+002	-1.0259e-013	-5.3719e+002	4.5486e-011	2.7455e+004
	-3.3042e-024	-2.4813e+002	-1.0259e-013	-5.3719e+002	3.8257e-011	-3.8919e+004

#### Condizione "(1) Dinamica SLD Y"

Elemento	Nx ( kg)	Ty ( kg)	Tz ( kg)	Mx ( kgxcm)	My ( kgxcm)	Mz ( kgxcm)
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13	7.2267e-025	-1.2283e-010	0.0000e+000	-3.9539e-010	-2.0454e-012	3.6798e+003
	7.2267e-025	-1.2283e-010	0.0000e+000	-3.9539e-010	-2.0454e-012	3.6798e+003
14	-5.8414e-025	-3.9739e-011	0.0000e+000	-1.4867e-010	-1.4138e-011	3.1429e+002
	-5.8414e-025	-3.9739e-011	0.0000e+000	-1.4867e-010	-1.4138e-011	3.1429e+002
15	5.9523e-025	-4.1146e-011	0.0000e+000	-1.9499e-011	-1.4138e-011	-4.6756e+000
	5.9523e-025	-4.1146e-011	0.0000e+000	-1.9499e-011	-1.4138e-011	-4.6756e+000
16	-5.9523e-025	-4.1191e-011	0.0000e+000	1.9499e-011	-1.4138e-011	4.6756e+000
	-5.9523e-025	-4.1191e-011	0.0000e+000	1.9499e-011	-1.4138e-011	4.6756e+000
17	5.8414e-025	-3.9852e-011	0.0000e+000	1.4368e-010	-1.4138e-011	-3.1429e+002
	5.8414e-025	-3.9852e-011	0.0000e+000	1.4368e-010	-1.4138e-011	-3.1429e+002
18	-7.2267e-025	-1.2329e-010	0.0000e+000	3.9125e-010	-2.0454e-012	-3.6798e+003
	-7.2267e-025	-1.2329e-010	0.0000e+000	3.9125e-010	-2.0454e-012	-3.6798e+003
19	3.5511e-012	-1.3109e+003	1.2755e-026	1.4677e+003	-5.3372e-025	2.0465e+005
	3.5511e-012	-1.3109e+003	1.2755e-026	1.4677e+003	3.2671e-024	-1.4602e+005
20	-1.3403e-011	-7.8235e+002	-2.3325e-027	3.1095e+002	5.2468e-025	2.0206e+005
	-1.3403e-011	-7.8235e+002	-2.3325e-027	3.1095e+002	-4.1868e-025	-1.9693e+005
21	2.9666e-012	-6.1105e+002	0.0000e+000	-7.8802e+000	-2.8230e-025	1.8026e+005
	2.9666e-012	-6.1105e+002	0.0000e+000	-7.8802e+000	-2.7915e-025	-1.8026e+005
22	-1.3403e-011	-7.8235e+002	2.3427e-027	3.1095e+002	-4.1819e-025	1.9693e+005
	-1.3403e-011	-7.8235e+002	2.3427e-027	3.1095e+002	5.2468e-025	-2.0206e+005
23	3.5511e-012	-1.3109e+003	-1.2660e-026	1.4677e+003	3.2671e-024	1.4602e+005
	3.5511e-012	-1.3109e+003	-1.2660e-026	1.4677e+003	-5.3372e-025	-2.0465e+005
24	-3.5511e-012	-1.3109e+003	1.2755e-026	-1.4677e+003	-5.3372e-025	2.0465e+005
	-3.5511e-012	-1.3109e+003	1.2755e-026	-1.4677e+003	3.2671e-024	-1.4602e+005
25	1.3403e-011	-7.8235e+002	-2.3325e-027	-3.1095e+002	5.2468e-025	2.0206e+005
	1.3403e-011	-7.8235e+002	-2.3325e-027	-3.1095e+002	-4.1868e-025	-1.9693e+005
26	-2.9666e-012	-6.1105e+002	0.0000e+000	7.8802e+000	-2.8230e-025	1.8026e+005
	-2.9666e-012	-6.1105e+002	0.0000e+000	7.8802e+000	-2.7915e-025	-1.8026e+005
27	1.3403e-011	-7.8235e+002	2.3427e-027	-3.1095e+002	-4.1819e-025	1.9693e+005
	1.3403e-011	-7.8235e+002	2.3427e-027	-3.1095e+002	5.2468e-025	-2.0206e+005
28	-3.5511e-012	-1.3109e+003	-1.2660e-026	-1.4677e+003	3.2671e-024	1.4602e+005
	-3.5511e-012	-1.3109e+003	-1.2660e-026	-1.4677e+003	-5.3372e-025	-2.0465e+005

**Condizione "(1) Dinamica SLD X"**

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
13	-1.1498e-011	-1.5743e+003	0.0000e+000	-5.0709e+003	-3.8881e-025	4.6443e+005
	-1.1498e-011	-1.5743e+003	0.0000e+000	-5.0709e+003	-3.8722e-025	-4.6443e+005
14	2.1638e-011	-5.0925e+002	0.0000e+000	-1.8350e+003	-2.2191e-024	1.5023e+005
	2.1638e-011	-5.0925e+002	0.0000e+000	-1.8350e+003	-2.2191e-024	-1.5023e+005
15	-1.3401e-011	-5.2683e+002	0.0000e+000	-1.9539e+002	-2.2191e-024	1.5541e+005
	-1.3401e-011	-5.2683e+002	0.0000e+000	-1.9539e+002	-2.2191e-024	-1.5541e+005
16	1.3401e-011	-5.2683e+002	0.0000e+000	1.9539e+002	-2.2191e-024	1.5541e+005
	1.3401e-011	-5.2683e+002	0.0000e+000	1.9539e+002	-2.2191e-024	-1.5541e+005
17	-2.1638e-011	-5.0925e+002	0.0000e+000	1.8350e+003	-2.2191e-024	1.5023e+005
	-2.1638e-011	-5.0925e+002	0.0000e+000	1.8350e+003	-2.2191e-024	-1.5023e+005
18	1.1498e-011	-1.5743e+003	0.0000e+000	5.0709e+003	-3.8881e-025	4.6443e+005
	1.1498e-011	-1.5743e+003	0.0000e+000	5.0709e+003	-3.8722e-025	-4.6443e+005
19	2.6849e-024	-2.9854e+002	-2.3892e-013	6.4633e+002	2.2377e-011	4.6826e+004
	2.6849e-024	-2.9854e+002	-2.3892e-013	6.4633e+002	-3.1075e-011	-3.3034e+004
20	1.3697e-024	-5.1482e+000	-5.6138e-014	-4.3911e+002	1.2148e-011	3.2643e+003
	1.3697e-024	-5.1482e+000	-5.6138e-014	-4.3911e+002	-1.2394e-011	6.3865e+002
21	1.4966e-024	-1.0526e-010	0.0000e+000	-7.7436e-012	-1.9717e-012	-4.0205e+002
	1.4966e-024	-1.0526e-010	0.0000e+000	-7.7436e-012	-1.9717e-012	-4.0205e+002
22	1.3697e-024	5.1482e+000	5.6138e-014	4.3911e+002	-1.2394e-011	6.3865e+002
	1.3697e-024	5.1482e+000	5.6138e-014	4.3911e+002	1.2148e-011	3.2643e+003
23	2.6849e-024	2.9854e+002	2.3892e-013	-6.4633e+002	-3.1075e-011	-3.3034e+004
	2.6849e-024	2.9854e+002	2.3892e-013	-6.4633e+002	2.2377e-011	4.6826e+004
24	-2.6849e-024	2.9854e+002	-2.3892e-013	6.4633e+002	2.2377e-011	-4.6826e+004
	-2.6849e-024	2.9854e+002	-2.3892e-013	6.4633e+002	-3.1075e-011	3.3034e+004
25	-1.3697e-024	5.1482e+000	-5.6138e-014	-4.3911e+002	1.2148e-011	-3.2643e+003
	-1.3697e-024	5.1482e+000	-5.6138e-014	-4.3911e+002	-1.2394e-011	-6.3865e+002
26	-1.4966e-024	-1.0521e-010	0.0000e+000	-7.7436e-012	-1.9717e-012	4.0205e+002
	-1.4966e-024	-1.0521e-010	0.0000e+000	-7.7436e-012	-1.9717e-012	4.0205e+002

27	-1.3697e-024	-5.1482e+000	5.6138e-014	4.3911e+002	-1.2394e-011	-6.3865e+002
	-1.3697e-024	-5.1482e+000	5.6138e-014	4.3911e+002	1.2148e-011	-3.2643e+003
28	-2.6849e-024	-2.9854e+002	2.3892e-013	-6.4633e+002	-3.1075e-011	3.3034e+004
	-2.6849e-024	-2.9854e+002	2.3892e-013	-6.4633e+002	2.2377e-011	-4.6826e+004

#### Condizione "(1) Permanenti"

Elemento	Nx ( kg)	Ty ( kg)	Tz ( kg)	Mx ( kgxcm)	My ( kgxcm)	Mz ( kgxcm)
13	0.0000e+000	-1.9765e+003	0.0000e+000	-1.0459e-011	2.0195e-027	1.5304e+005
	0.0000e+000	1.9765e+003	0.0000e+000	-1.0459e-011	-1.8175e-027	1.5304e+005
14	-3.2312e-027	-8.8500e+002	0.0000e+000	3.6380e-012	0.0000e+000	6.9788e+004
	-3.2312e-027	8.8500e+002	0.0000e+000	3.6380e-012	0.0000e+000	6.9788e+004
15	1.6156e-027	-8.8500e+002	0.0000e+000	4.5475e-013	0.0000e+000	6.8458e+004
	1.6156e-027	8.8500e+002	0.0000e+000	4.5475e-013	0.0000e+000	6.8458e+004
16	0.0000e+000	-8.8500e+002	0.0000e+000	-3.1832e-012	0.0000e+000	6.8458e+004
	0.0000e+000	8.8500e+002	0.0000e+000	-3.1832e-012	0.0000e+000	6.8458e+004
17	0.0000e+000	-8.8500e+002	0.0000e+000	3.6380e-012	0.0000e+000	6.9788e+004
	0.0000e+000	8.8500e+002	0.0000e+000	3.6380e-012	0.0000e+000	6.9788e+004
18	0.0000e+000	-1.9765e+003	0.0000e+000	-3.6380e-012	2.0195e-027	1.5304e+005
	0.0000e+000	1.9765e+003	0.0000e+000	-3.6380e-012	-1.8175e-027	1.5304e+005
19	0.0000e+000	-3.4133e+003	-1.0097e-028	9.0004e+003	-6.4623e-027	2.4090e+005
	0.0000e+000	1.6933e+003	-1.0097e-028	9.0004e+003	0.0000e+000	1.0853e+004
20	0.0000e+000	-5.0723e+003	-6.3109e-030	1.2968e+003	-1.6156e-027	4.6105e+005
	0.0000e+000	4.6636e+003	-6.3109e-030	1.2968e+003	1.6156e-027	3.5683e+005
21	0.0000e+000	-5.6316e+003	0.0000e+000	1.8190e-012	2.0195e-027	5.4024e+005
	0.0000e+000	5.6315e+003	0.0000e+000	1.8190e-012	-1.4136e-027	5.4024e+005
22	0.0000e+000	-4.6636e+003	-6.3109e-030	-1.2968e+003	-1.6156e-027	3.5683e+005
	0.0000e+000	5.0723e+003	-6.3109e-030	-1.2968e+003	0.0000e+000	4.6105e+005
23	0.0000e+000	-1.6933e+003	-1.0097e-028	-9.0004e+003	0.0000e+000	1.0853e+004
	0.0000e+000	3.4133e+003	-1.0097e-028	-9.0004e+003	0.0000e+000	2.4090e+005
24	0.0000e+000	-3.4133e+003	-1.0097e-028	-9.0004e+003	-6.4623e-027	2.4090e+005
	0.0000e+000	1.6933e+003	-1.0097e-028	-9.0004e+003	0.0000e+000	1.0853e+004
25	-1.6156e-027	-5.0723e+003	-6.3109e-030	-1.2968e+003	-1.6156e-027	4.6105e+005
	-1.6156e-027	4.6636e+003	-6.3109e-030	-1.2968e+003	1.6156e-027	3.5683e+005
26	-8.0779e-028	-5.6316e+003	0.0000e+000	5.4570e-012	2.0195e-027	5.4024e+005
	-8.0779e-028	5.6316e+003	0.0000e+000	5.4570e-012	-1.4136e-027	5.4024e+005
27	-1.6156e-027	-4.6636e+003	-6.3109e-030	1.2968e+003	-1.6156e-027	3.5683e+005
	-1.6156e-027	5.0723e+003	-6.3109e-030	1.2968e+003	0.0000e+000	4.6105e+005
28	0.0000e+000	-1.6933e+003	-1.0097e-028	9.0004e+003	0.0000e+000	1.0853e+004
	0.0000e+000	3.4133e+003	-1.0097e-028	9.0004e+003	0.0000e+000	2.4090e+005

#### Condizione "(1) Accidentali"

Elemento	Nx ( kg)	Ty ( kg)	Tz ( kg)	Mx ( kgxcm)	My ( kgxcm)	Mz ( kgxcm)
13	0.0000e+000	-2.1240e+002	0.0000e+000	-1.0232e-012	9.4663e-029	1.6426e+004
	0.0000e+000	2.1240e+002	0.0000e+000	-1.0232e-012	-8.8352e-029	1.6426e+004
14	0.0000e+000	-3.1086e-015	0.0000e+000	0.0000e+000	5.0487e-029	-7.6917e+002
	0.0000e+000	-3.1086e-015	0.0000e+000	0.0000e+000	5.0487e-029	-7.6917e+002
15	0.0000e+000	1.7764e-015	0.0000e+000	3.4106e-013	5.0487e-029	-7.2994e+002
	0.0000e+000	1.7764e-015	0.0000e+000	3.4106e-013	5.0487e-029	-7.2994e+002
16	0.0000e+000	-5.3291e-015	0.0000e+000	-4.5475e-013	5.0487e-029	-7.2994e+002
	0.0000e+000	-5.3291e-015	0.0000e+000	-4.5475e-013	5.0487e-029	-7.2994e+002
17	0.0000e+000	-2.2204e-015	0.0000e+000	2.2737e-013	5.0487e-029	-7.6917e+002
	0.0000e+000	-2.2204e-015	0.0000e+000	2.2737e-013	5.0487e-029	-7.6917e+002
18	0.0000e+000	-2.1240e+002	0.0000e+000	0.0000e+000	9.4663e-029	1.6426e+004
	0.0000e+000	2.1240e+002	0.0000e+000	0.0000e+000	-8.8352e-029	1.6426e+004
19	0.0000e+000	-7.3014e+002	-6.3109e-030	-1.0571e+003	0.0000e+000	4.8704e+004
	0.0000e+000	4.0941e+002	-6.3109e-030	-1.0571e+003	0.0000e+000	5.8072e+003
20	0.0000e+000	-1.1334e+003	-3.9443e-031	-3.8241e+001	0.0000e+000	1.0305e+005
	0.0000e+000	1.0392e+003	-3.9443e-031	-3.8241e+001	5.0487e-029	7.9012e+004
21	0.0000e+000	-1.2567e+003	0.0000e+000	0.0000e+000	6.9420e-029	1.2057e+005
	0.0000e+000	1.2567e+003	0.0000e+000	0.0000e+000	-8.2042e-029	1.2057e+005
22	0.0000e+000	-1.0392e+003	-1.9722e-031	3.8241e+001	-5.0487e-029	7.9012e+004
	0.0000e+000	1.1334e+003	-1.9722e-031	3.8241e+001	0.0000e+000	1.0305e+005
23	0.0000e+000	-4.0941e+002	-6.3109e-030	1.0571e+003	0.0000e+000	5.8072e+003
	0.0000e+000	7.3014e+002	-6.3109e-030	1.0571e+003	0.0000e+000	4.8704e+004

24	-1.0097e-028	-7.3014e+002	-6.3109e-030	1.0571e+003	0.0000e+000	4.8704e+004
	-1.0097e-028	4.0941e+002	-6.3109e-030	1.0571e+003	0.0000e+000	5.8072e+003
25	0.0000e+000	-1.1334e+003	-3.9443e-031	3.8241e+001	0.0000e+000	1.0305e+005
	0.0000e+000	1.0392e+003	-3.9443e-031	3.8241e+001	5.0487e-029	7.9012e+004
26	-5.0487e-029	-1.2567e+003	0.0000e+000	2.2737e-013	6.9420e-029	1.2057e+005
	-5.0487e-029	1.2567e+003	0.0000e+000	2.2737e-013	-8.2042e-029	1.2057e+005
27	0.0000e+000	-1.0392e+003	-1.9722e-031	-3.8241e+001	-5.0487e-029	7.9012e+004
	0.0000e+000	1.1334e+003	-1.9722e-031	-3.8241e+001	0.0000e+000	1.0305e+005
28	-1.0097e-028	-4.0941e+002	-6.3109e-030	-1.0571e+003	0.0000e+000	5.8072e+003
	-1.0097e-028	7.3014e+002	-6.3109e-030	-1.0571e+003	0.0000e+000	4.8704e+004

#### Condizione "(1) Torcente di piano SLV"

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
13	0.0000e+000	-1.3006e+002	0.0000e+000	2.2700e+002	1.4779e-012	3.8367e+004
	0.0000e+000	-1.3006e+002	0.0000e+000	2.2700e+002	-1.4779e-012	-3.8367e+004
14	0.0000e+000	-3.0197e+001	0.0000e+000	1.1134e+003	0.0000e+000	8.9081e+003
	0.0000e+000	-3.0197e+001	0.0000e+000	1.1134e+003	0.0000e+000	-8.9081e+003
15	0.0000e+000	-1.1483e+001	0.0000e+000	1.3482e+003	0.0000e+000	3.3875e+003
	0.0000e+000	-1.1483e+001	0.0000e+000	1.3482e+003	0.0000e+000	-3.3875e+003
16	0.0000e+000	1.1483e+001	0.0000e+000	1.3482e+003	0.0000e+000	-3.3875e+003
	0.0000e+000	1.1483e+001	0.0000e+000	1.3482e+003	0.0000e+000	3.3875e+003
17	0.0000e+000	3.0197e+001	0.0000e+000	1.1134e+003	0.0000e+000	-8.9081e+003
	0.0000e+000	3.0197e+001	0.0000e+000	1.1134e+003	0.0000e+000	8.9081e+003
18	0.0000e+000	1.3006e+002	0.0000e+000	2.2700e+002	1.4779e-012	-3.8367e+004
	0.0000e+000	1.3006e+002	0.0000e+000	2.2700e+002	-1.4779e-012	3.8367e+004
19	0.0000e+000	-8.7005e+001	-5.6843e-014	1.9198e+003	0.0000e+000	1.3668e+004
	0.0000e+000	-8.7005e+001	-5.6843e-014	1.9198e+003	0.0000e+000	-9.6056e+003
20	0.0000e+000	-3.7879e+001	-3.5527e-015	1.9465e+003	0.0000e+000	9.9387e+003
	0.0000e+000	-3.7879e+001	-3.5527e-015	1.9465e+003	9.0949e-013	-9.3798e+003
21	0.0000e+000	-2.9107e+001	0.0000e+000	1.9689e+003	1.4779e-012	8.5865e+003
	0.0000e+000	-2.9107e+001	0.0000e+000	1.9689e+003	-1.4779e-012	-8.5865e+003
22	0.0000e+000	-3.7879e+001	-3.5527e-015	1.9465e+003	-9.0949e-013	9.3798e+003
	0.0000e+000	-3.7879e+001	-3.5527e-015	1.9465e+003	0.0000e+000	-9.9387e+003
23	0.0000e+000	-8.7005e+001	-5.6843e-014	1.9198e+003	0.0000e+000	9.6056e+003
	0.0000e+000	-8.7005e+001	-5.6843e-014	1.9198e+003	0.0000e+000	-1.3668e+004
24	0.0000e+000	8.7005e+001	-5.6843e-014	1.9198e+003	0.0000e+000	-1.3668e+004
	0.0000e+000	8.7005e+001	-5.6843e-014	1.9198e+003	0.0000e+000	9.6056e+003
25	0.0000e+000	3.7879e+001	-3.5527e-015	1.9465e+003	0.0000e+000	-9.9387e+003
	0.0000e+000	3.7879e+001	-3.5527e-015	1.9465e+003	9.0949e-013	9.3798e+003
26	0.0000e+000	2.9107e+001	0.0000e+000	1.9689e+003	1.4779e-012	-8.5865e+003
	0.0000e+000	2.9107e+001	0.0000e+000	1.9689e+003	-1.4779e-012	8.5865e+003
27	0.0000e+000	3.7879e+001	-3.5527e-015	1.9465e+003	-9.0949e-013	-9.3798e+003
	0.0000e+000	3.7879e+001	-3.5527e-015	1.9465e+003	0.0000e+000	9.9387e+003
28	0.0000e+000	8.7005e+001	-5.6843e-014	1.9198e+003	0.0000e+000	-9.6056e+003
	0.0000e+000	8.7005e+001	-5.6843e-014	1.9198e+003	0.0000e+000	1.3668e+004

#### Condizione "(1) Torcente di piano SLD"

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
13	0.0000e+000	-4.3328e+001	0.0000e+000	7.5625e+001	5.1159e-013	1.2782e+004
	0.0000e+000	-4.3328e+001	0.0000e+000	7.5625e+001	-5.1159e-013	-1.2782e+004
14	0.0000e+000	-1.0060e+001	0.0000e+000	3.7092e+002	0.0000e+000	2.9677e+003
	0.0000e+000	-1.0060e+001	0.0000e+000	3.7092e+002	0.0000e+000	-2.9677e+003
15	0.0000e+000	-3.8255e+000	0.0000e+000	4.4913e+002	0.0000e+000	1.1285e+003
	0.0000e+000	-3.8255e+000	0.0000e+000	4.4913e+002	0.0000e+000	-1.1285e+003
16	0.0000e+000	3.8255e+000	0.0000e+000	4.4913e+002	0.0000e+000	-1.1285e+003
	0.0000e+000	3.8255e+000	0.0000e+000	4.4913e+002	0.0000e+000	1.1285e+003
17	0.0000e+000	1.0060e+001	0.0000e+000	3.7092e+002	0.0000e+000	-2.9677e+003
	0.0000e+000	1.0060e+001	0.0000e+000	3.7092e+002	0.0000e+000	2.9677e+003
18	0.0000e+000	4.3328e+001	0.0000e+000	7.5625e+001	5.1159e-013	-1.2782e+004
	0.0000e+000	4.3328e+001	0.0000e+000	7.5625e+001	-5.1159e-013	1.2782e+004
19	0.0000e+000	-2.8985e+001	-1.4211e-014	6.3957e+002	0.0000e+000	4.5535e+003
	0.0000e+000	-2.8985e+001	-1.4211e-014	6.3957e+002	0.0000e+000	-3.2001e+003
20	0.0000e+000	-1.2619e+001	-1.7764e-015	6.4846e+002	0.0000e+000	3.3110e+003
	0.0000e+000	-1.2619e+001	-1.7764e-015	6.4846e+002	4.5475e-013	-3.1249e+003

21	0.0000e+000	-9.6968e+000	0.0000e+000	6.5593e+002	5.1159e-013	2.8605e+003
	0.0000e+000	-9.6968e+000	0.0000e+000	6.5593e+002	-5.1159e-013	-2.8605e+003
22	0.0000e+000	-1.2619e+001	-1.7764e-015	6.4846e+002	-4.5475e-013	3.1249e+003
	0.0000e+000	-1.2619e+001	-1.7764e-015	6.4846e+002	0.0000e+000	-3.3110e+003
23	0.0000e+000	-2.8985e+001	-1.4211e-014	6.3957e+002	0.0000e+000	3.2001e+003
	0.0000e+000	-2.8985e+001	-1.4211e-014	6.3957e+002	0.0000e+000	-4.5535e+003
24	0.0000e+000	2.8985e+001	-1.4211e-014	6.3957e+002	0.0000e+000	-4.5535e+003
	0.0000e+000	2.8985e+001	-1.4211e-014	6.3957e+002	0.0000e+000	3.2001e+003
25	0.0000e+000	1.2619e+001	-1.7764e-015	6.4846e+002	0.0000e+000	-3.3110e+003
	0.0000e+000	1.2619e+001	-1.7764e-015	6.4846e+002	4.5475e-013	3.1249e+003
26	0.0000e+000	9.6968e+000	0.0000e+000	6.5593e+002	5.1159e-013	-2.8605e+003
	0.0000e+000	9.6968e+000	0.0000e+000	6.5593e+002	-5.1159e-013	2.8605e+003
27	0.0000e+000	1.2619e+001	-1.7764e-015	6.4846e+002	-4.5475e-013	-3.1249e+003
	0.0000e+000	1.2619e+001	-1.7764e-015	6.4846e+002	0.0000e+000	3.3110e+003
28	0.0000e+000	2.8985e+001	-1.4211e-014	6.3957e+002	0.0000e+000	-3.2001e+003
	0.0000e+000	2.8985e+001	-1.4211e-014	6.3957e+002	0.0000e+000	4.5535e+003

### Armatura longitudinale negli elementi

Elemento	Area (cm2)	Y (cm)	Z (cm)	Ascissa iniz. (cm)	Lunghezza (cm)
13	2.01	18.00	-10.50	0.00	590.00
	2.01	-18.00	-10.50	0.00	590.00
	2.01	-18.00	10.50	0.00	590.00
	2.01	18.00	10.50	0.00	590.00
14	2.01	8.00	-28.00	0.00	590.00
	2.01	-8.00	-28.00	0.00	590.00
	2.01	-8.00	28.00	0.00	590.00
	2.01	8.00	28.00	0.00	590.00
15	2.01	8.00	-28.00	0.00	590.00
	2.01	-8.00	-28.00	0.00	590.00
	2.01	-8.00	28.00	0.00	590.00
	2.01	8.00	28.00	0.00	590.00
16	2.01	8.00	-28.00	0.00	590.00
	2.01	-8.00	-28.00	0.00	590.00
	2.01	-8.00	28.00	0.00	590.00
	2.01	8.00	28.00	0.00	590.00
17	2.01	8.00	-28.00	0.00	590.00
	2.01	-8.00	-28.00	0.00	590.00
	2.01	-8.00	28.00	0.00	590.00
	2.01	8.00	28.00	0.00	590.00
18	2.01	18.00	-10.50	0.00	590.00
	2.01	-18.00	-10.50	0.00	590.00
	2.01	-18.00	10.50	0.00	590.00
	2.01	18.00	10.50	0.00	590.00
19	2.01	18.00	-10.50	0.00	267.50
	2.01	-18.00	-10.50	0.00	267.50
	2.01	-18.00	10.50	0.00	267.50
	2.01	18.00	10.50	0.00	267.50
20	2.01	18.00	-10.50	0.00	510.00
	2.01	-18.00	-10.50	0.00	510.00
	2.01	-18.00	10.50	0.00	510.00
	2.01	18.00	10.50	0.00	510.00
	2.01	18.00	0.00	359.50	150.50
21	2.01	18.00	0.00	0.00	176.00
	2.01	18.00	-10.50	244.20	345.80
	2.01	18.00	-10.50	0.00	345.80
	2.01	-18.00	-10.50	0.00	590.00
	2.01	-18.00	10.50	0.00	590.00
	2.01	18.00	10.50	244.20	345.80
	2.01	18.00	10.50	0.00	345.80
	2.01	18.00	0.00	406.00	184.00
	2.01	18.00	0.00	0.00	184.00
	1.13	18.00	5.25	406.00	184.00
	1.13	18.00	5.25	0.00	184.00
	1.13	18.00	-5.25	406.00	184.00
22	1.13	18.00	-5.25	0.00	184.00
	2.01	18.00	-10.50	0.00	510.00
	2.01	-18.00	-10.50	0.00	510.00
	2.01	-18.00	10.50	0.00	510.00
	2.01	18.00	10.50	0.00	510.00
	2.01	18.00	0.00	334.00	176.00

	2.01	18.00	0.00	0.00	150.50
23	2.01	18.00	-10.50	0.00	267.50
	2.01	-18.00	-10.50	0.00	267.50
	2.01	-18.00	10.50	0.00	267.50
	2.01	18.00	10.50	0.00	267.50
24	2.01	18.00	-10.50	0.00	267.50
	2.01	-18.00	-10.50	0.00	267.50
	2.01	-18.00	10.50	0.00	267.50
	2.01	18.00	10.50	0.00	267.50
25	2.01	18.00	-10.50	0.00	510.00
	2.01	-18.00	-10.50	0.00	510.00
	2.01	-18.00	10.50	0.00	510.00
	2.01	18.00	10.50	0.00	510.00
	2.01	18.00	0.00	359.50	150.50
	2.01	18.00	0.00	0.00	176.00
26	2.01	18.00	-10.50	244.20	345.80
	2.01	18.00	-10.50	0.00	345.80
	2.01	-18.00	-10.50	0.00	590.00
	2.01	-18.00	10.50	0.00	590.00
	2.01	18.00	10.50	244.20	345.80
	2.01	18.00	10.50	0.00	345.80
	2.01	18.00	0.00	406.00	184.00
	2.01	18.00	0.00	0.00	184.00
	1.13	18.00	5.25	406.00	184.00
	1.13	18.00	5.25	0.00	184.00
	1.13	18.00	-5.25	406.00	184.00
	1.13	18.00	-5.25	0.00	184.00
27	2.01	18.00	-10.50	0.00	510.00
	2.01	-18.00	-10.50	0.00	510.00
	2.01	-18.00	10.50	0.00	510.00
	2.01	18.00	10.50	0.00	510.00
	2.01	18.00	0.00	334.00	176.00
	2.01	18.00	0.00	0.00	150.50
28	2.01	18.00	-10.50	0.00	267.50
	2.01	-18.00	-10.50	0.00	267.50
	2.01	-18.00	10.50	0.00	267.50
	2.01	18.00	10.50	0.00	267.50

#### Armatura trasversale negli elementi

Elemento	Ascissa iniz. (cm)	Lunghezza tratto (cm)	Area orizz. (cm2)	Area vert. (cm2)	Passo (cm)
13	25.00	40.00	1.01	1.01	10.00
	65.00	460.00	1.01	1.01	26.00
	525.00	40.00	1.01	1.01	10.00
14	12.50	20.00	1.01	1.01	5.00
	32.50	525.00	1.01	1.01	11.00
	557.50	20.00	1.01	1.01	5.00
15	12.50	20.00	1.01	1.01	5.00
	32.50	525.00	1.01	1.01	11.00
	557.50	20.00	1.01	1.01	5.00
16	12.50	20.00	1.01	1.01	5.00
	32.50	525.00	1.01	1.01	11.00
	557.50	20.00	1.01	1.01	5.00
17	12.50	20.00	1.01	1.01	5.00
	32.50	525.00	1.01	1.01	11.00
	557.50	20.00	1.01	1.01	5.00
18	25.00	40.00	1.01	1.01	10.00
	65.00	460.00	1.01	1.01	26.00
	525.00	40.00	1.01	1.01	10.00
19	25.00	40.00	1.01	1.01	10.00
	65.00	150.00	1.01	1.01	26.00
	215.00	40.00	1.01	1.01	10.00
20	25.00	40.00	1.01	1.01	10.00
	65.00	380.00	1.01	1.01	26.00
	445.00	40.00	1.01	1.01	10.00
21	25.00	40.00	1.01	1.01	9.00
	65.00	460.00	1.01	1.01	26.00
	525.00	40.00	1.01	1.01	9.00
22	25.00	40.00	1.01	1.01	10.00
	65.00	380.00	1.01	1.01	26.00
	445.00	40.00	1.01	1.01	10.00
23	12.50	40.00	1.01	1.01	10.00
	52.50	150.00	1.01	1.01	26.00
	202.50	40.00	1.01	1.01	10.00
24	25.00	40.00	1.01	1.01	10.00
	65.00	150.00	1.01	1.01	26.00
	215.00	40.00	1.01	1.01	10.00
25	25.00	40.00	1.01	1.01	10.00

	65.00	380.00	1.01	1.01	26.00
	445.00	40.00	1.01	1.01	10.00
26	25.00	40.00	1.01	1.01	9.00
	65.00	460.00	1.01	1.01	26.00
	525.00	40.00	1.01	1.01	9.00
27	25.00	40.00	1.01	1.01	10.00
	65.00	380.00	1.01	1.01	26.00
	445.00	40.00	1.01	1.01	10.00
28	12.50	40.00	1.01	1.01	10.00
	52.50	150.00	1.01	1.01	26.00
	202.50	40.00	1.01	1.01	10.00

#### Verifica momento ultimo

Elem	P/T	Qta	Ascissa (cm)	Nx ( kg)	Mz ( kgxcm)	My ( kgxcm)	Fattore sicurezza	Comb.
13	T		27.00	-4.64e-012	488562.46	9.50e-013	1.19	8
			295.00	0.00	-227112.91	1.56e-028	2.56	17
			563.00	4.64e-012	488562.46	9.50e-013	1.19	3
14	T		14.50	-1.29e-012	184386.68	3.53e-012	1.45	6
			295.00	-4.85e-027	-92124.06	6.56e-029	2.94	17
			575.50	1.29e-012	184386.68	3.53e-012	1.45	1
15	T		14.50	-1.11e-011	181983.97	3.53e-012	1.49	6
			295.00	2.42e-027	-94068.31	6.56e-029	2.89	17
			575.50	1.11e-011	181983.97	3.53e-012	1.49	1
16	T		14.50	1.11e-011	181981.63	3.53e-012	1.49	2
			295.00	0.00	-94068.31	6.56e-029	2.89	17
			575.50	-1.11e-011	181981.63	3.53e-012	1.49	5
17	T		14.50	1.29e-012	184543.41	3.53e-012	1.45	2
			295.00	0.00	-92124.06	6.56e-029	2.94	17
			575.50	-1.29e-012	184543.41	3.53e-012	1.45	5
18	T		27.00	4.64e-012	488562.46	-9.50e-013	1.19	2
			295.00	0.00	-227112.91	1.56e-028	2.56	17
			563.00	-4.64e-012	488562.46	-9.50e-013	1.19	5
19	T		27.00	7.87e-012	317362.29	1.10e-011	1.83	16
			133.75	0.00	-81412.46	-4.85e-027	7.15	17
			253.00	7.87e-012	-132760.03	1.39e-011	4.37	16
20	T		27.00	0.00	592783.15	-2.61e-027	1.45	17
			255.00	0.00	-379301.76	3.28e-029	1.53	17
			483.00	0.00	425062.56	2.68e-027	2.03	17
21	T		27.00	0.00	707366.68	3.09e-027	1.65	17
			295.00	0.00	-519854.09	4.46e-028	1.12	17
			563.00	0.00	707366.68	-2.19e-027	1.65	17
22	T		27.00	0.00	425062.56	-2.69e-027	2.03	17
			255.00	0.00	-379301.76	-1.24e-027	1.53	17
			483.00	0.00	592783.15	2.02e-028	1.45	17
23	T		14.50	-7.87e-012	-132760.03	1.39e-011	4.37	11
			133.75	0.00	-81412.46	-4.54e-042	7.15	17
			240.50	-7.87e-012	317362.29	1.10e-011	1.83	11
24	T		27.00	-7.87e-012	317362.29	-1.10e-011	1.83	10
			133.75	-1.31e-028	-81412.46	-4.85e-027	7.15	17
			253.00	-7.87e-012	-132760.03	-1.39e-011	4.37	10
25	T		27.00	-2.42e-027	592783.15	-2.61e-027	1.45	17
			255.00	-2.42e-027	-379301.76	3.28e-029	1.53	17
			483.00	-2.42e-027	425062.56	2.68e-027	2.03	17
26	T		27.00	-1.28e-027	707366.68	3.09e-027	1.65	17
			295.00	-1.28e-027	-519854.09	4.46e-028	1.12	17
			563.00	-1.28e-027	707366.68	-2.19e-027	1.65	17
27	T		27.00	-2.42e-027	425062.56	-2.69e-027	2.03	17
			255.00	-2.42e-027	-379301.76	-1.24e-027	1.53	17
			483.00	-2.42e-027	592783.15	2.02e-028	1.45	17
28	T		14.50	7.87e-012	-132760.03	-1.39e-011	4.37	13
			133.75	-1.31e-028	-81412.46	-4.54e-042	7.15	17
			240.50	7.87e-012	317362.29	-1.10e-011	1.83	13

Minimo fattore di sicurezza: 1.120377 >= 1.00

Per ogni elemento Elem di tipo P(ilastro) o T(rave) a quota (opzionale) di riferimento Qta viene calcolato, all'ascissa Ascissa, il momento ultimo Mr nella direzione di sollecitazione risultante e viene esposto il **Fattore sicurezza**, cioè Mr/Me, relativo alla combinazione COMB che ha generato il minore fattore di sicurezza. Vengono esposte le sollecitazioni Md nelle componenti assiale Nx e flessionale Mz e My di tale combinazione (vedi Combinazioni Progetto). Se il fattore di sicurezza è maggiore di 10.0, viene riportata la dicitura >10.0 per evitare la stampa di numeri inutilmente grandi.

#### Verifica taglio ultimo

Elem	P/T	Qta	Ascissa (cm)	Ty ( kg)	Tz ( kg)	Vr ( kg)	Fattore sicurezza	Comb.
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13	T	27.00	-3234.14	-1.31e-015	25605.39	8.13	6
		295.00	1438.54	7.51e-015	13191.27	9.40	1
		563.00	3234.14	1.31e-015	25605.39	8.13	1
14	T	14.50	-1294.95	0.00	27201.27	> 10.00	8
		295.00	453.45	0.00	14769.18	> 10.00	3
		575.50	1294.95	0.00	27201.27	> 10.00	3
15	T	14.50	-1290.85	0.00	27201.27	> 10.00	6
		295.00	-449.35	0.00	14769.18	> 10.00	6
		575.50	1290.85	0.00	27201.27	> 10.00	1
16	T	14.50	-1290.85	0.00	27201.27	> 10.00	2
		295.00	449.35	0.00	14769.18	> 10.00	5
		575.50	1290.85	0.00	27201.27	> 10.00	5
17	T	14.50	-1294.95	0.00	27201.27	> 10.00	2
		295.00	-453.45	0.00	14769.18	> 10.00	2
		575.50	1294.95	0.00	27201.27	> 10.00	5
18	T	27.00	-3234.14	1.31e-015	25605.39	8.13	2
		295.00	-1438.54	7.51e-015	13191.27	9.40	2
		563.00	3234.14	-1.31e-015	25605.39	8.13	7
19	T	27.00	-5146.44	-5.30e-029	25605.39	5.03	17
		133.75	-2111.00	2.52e-014	13191.27	6.40	16
		253.00	2667.49	1.56e-014	25605.39	9.85	9
20	T	27.00	-8159.25	-4.08e-030	25499.38	3.13	17
		255.00	-893.77	1.88e-014	13191.27	> 10.00	16
		483.00	7423.64	-4.08e-030	25605.39	3.49	17
21	T	27.00	-9158.36	-2.37e-030	26446.57	2.89	17
		295.00	536.97	7.51e-015	13191.27	> 10.00	11
		563.00	9158.36	-2.37e-030	26446.57	2.89	17
22	T	27.00	-7423.64	-5.33e-030	25605.39	3.49	17
		255.00	893.77	-1.88e-014	13191.27	> 10.00	11
		483.00	8159.25	-5.33e-030	25499.38	3.13	17
23	T	14.50	-2667.49	-1.56e-014	25605.39	9.85	14
		133.75	2111.00	-2.52e-014	13191.27	6.40	11
		240.50	5146.44	-7.27e-029	25605.39	5.03	17
24	T	27.00	-5146.44	-5.30e-029	25605.39	5.03	17
		133.75	-2111.00	-2.52e-014	13191.27	6.40	10
		253.00	2667.49	-1.56e-014	25605.39	9.85	15
25	T	27.00	-8159.25	-4.08e-030	25499.38	3.13	17
		255.00	-893.77	-1.88e-014	13191.27	> 10.00	10
		483.00	7423.64	-4.08e-030	25605.39	3.49	17
26	T	27.00	-9158.36	-2.37e-030	26446.57	2.89	17
		295.00	-536.97	7.51e-015	13191.27	> 10.00	12
		563.00	9158.36	-2.37e-030	26446.57	2.89	17
27	T	27.00	-7423.64	-5.33e-030	25605.39	3.49	17
		255.00	893.77	1.88e-014	13191.27	> 10.00	13
		483.00	8159.25	-5.33e-030	25499.38	3.13	17
28	T	14.50	-2667.49	1.56e-014	25605.39	9.85	12
		133.75	2111.00	2.52e-014	13191.27	6.40	13
		240.50	5146.44	-7.27e-029	25605.39	5.03	17

**Minimo fattore di sicurezza:** 2.887696 >= 1.00

Per ogni elemento **Elem** di tipo **P**(ilastro) o **T**(rave) a quota (opzionale) di riferimento **Qta** viene calcolato, all'ascissa **Ascissa**, il taglio ultimo **Tr** nella direzione di sollecitazione risultante e viene esposto il **Fattore sicurezza**, cioè  $Tr/Te$ , relativo alla combinazione **Comb** che ha generato il minore fattore di sicurezza. Vengono esposte le sollecitazioni **Td** nelle componenti **Ty** e **Tz** di tale combinazione (vedi Combinazioni Progetto). Se il fattore di sicurezza è maggiore di 10.0, viene riportata la dicitura >10.0 per evitare la stampa di numeri inutilmente grandi.

#### Verifica a torsione

Elem	P/T	Qta	Ascissa (cm)	Comb.	Td ( kgxcm)	Tr ( kgxcm)	Vd ( kg)	Vr ( kg)	Fs
13	T		27.00	8	-3987.63	228044.43	3234.14	25605.39	6.95
			295.00	8	-3987.63	228044.43	3234.14	25605.39	6.95
			563.00	8	-3987.63	228044.43	3234.14	25605.39	6.95
14	T		14.50	5	2638.53	352983.55	448.44	27201.27	> 10.00
			295.00	5	2638.53	352983.55	448.44	27201.27	> 10.00
			575.50	5	2638.53	352983.55	448.44	27201.27	> 10.00
15	T		14.50	5	1510.55	352983.55	415.12	27201.27	> 10.00
			295.00	5	1510.55	352983.55	415.12	27201.27	> 10.00
			575.50	5	1510.55	352983.55	415.12	27201.27	> 10.00
16	T		14.50	1	-1510.55	352983.55	415.12	27201.27	> 10.00
			295.00	1	-1510.55	352983.55	415.12	27201.27	> 10.00
			575.50	1	-1510.55	352983.55	415.12	27201.27	> 10.00

17	T	14.50	8	2638.53	352983.55	1234.56	27201.27	> 10.00
		295.00	8	2638.53	352983.55	1234.56	27201.27	> 10.00
		575.50	8	2638.53	352983.55	1234.56	27201.27	> 10.00
18	T	27.00	4	3987.63	228044.43	3234.14	25605.39	6.95
		295.00	4	3987.63	228044.43	3234.14	25605.39	6.95
		563.00	4	3987.63	228044.43	3234.14	25605.39	6.95
19	T	27.00	17	12126.38	228044.43	5146.44	25605.39	3.93
		133.75	17	12126.38	228044.43	5146.44	25605.39	3.93
		253.00	17	12126.38	228044.43	5146.44	25605.39	3.93
20	T	27.00	17	1895.42	285055.54	8159.25	25605.39	3.07
		255.00	17	1895.42	285055.54	8159.25	25605.39	3.07
		483.00	17	1895.42	285055.54	8159.25	25605.39	3.07
21	T	27.00	17	2.73e-012	361254.65	9158.36	26556.52	2.90
		295.00	17	2.73e-012	361254.65	9158.36	26556.52	2.90
		563.00	17	2.73e-012	361254.65	9158.36	26556.52	2.90
22	T	27.00	17	-1895.42	285055.54	7423.64	25605.39	3.37
		255.00	17	-1895.42	285055.54	7423.64	25605.39	3.37
		483.00	17	-1895.42	285055.54	8159.25	25605.39	3.07
23	T	14.50	17	-12126.38	228044.43	2576.66	25605.39	6.50
		133.75	11	-12301.16	170251.40	2111.00	13191.27	4.31
		240.50	17	-12126.38	228044.43	5146.44	25605.39	3.93
24	T	27.00	17	-12126.38	228044.43	5146.44	25605.39	3.93
		133.75	17	-12126.38	228044.43	5146.44	25605.39	3.93
		253.00	17	-12126.38	228044.43	5146.44	25605.39	3.93
25	T	27.00	17	-1895.42	285055.54	8159.25	25605.39	3.07
		255.00	17	-1895.42	285055.54	8159.25	25605.39	3.07
		483.00	17	-1895.42	285055.54	8159.25	25605.39	3.07
26	T	27.00	17	8.48e-012	361254.65	9158.36	26556.52	2.90
		295.00	17	8.48e-012	361254.65	9158.36	26556.52	2.90
		563.00	17	8.48e-012	361254.65	9158.36	26556.52	2.90
27	T	27.00	17	1895.42	285055.54	7423.64	25605.39	3.37
		255.00	17	1895.42	285055.54	7423.64	25605.39	3.37
		483.00	17	1895.42	285055.54	8159.25	25605.39	3.07
28	T	14.50	17	12126.38	228044.43	2576.66	25605.39	6.50
		133.75	13	12301.16	170251.40	2111.00	13191.27	4.31
		240.50	17	12126.38	228044.43	5146.44	25605.39	3.93

**Minimo fattore di sicurezza:** 2.899701 >= 1.00

Per ogni elemento **Elem** di tipo **P**(ilastro) o **T**(rave) a quota (opzionale) di riferimento **Qta** viene calcolato, all'ascissa **Ascissa**, per ogni combinazione di carico il fattore di sicurezza combinato taglio-torsione **Fs** e vengono esposti dati e risultati relativi alla combinazione **Comb**, per la quale si è ottenuto il fattore di sicurezza minimo. Vengono esposti i momenti torcenti agenti **Td** e resistenti **Tr** ed i valori di taglio combinato agente **Vd** e resistente **Vr**. Se il fattore di sicurezza è maggiore di 10.0, viene riportata la dicitura **>10.0** per evitare la stampa di numeri inutilmente grandi. In caso sia segnalato **Verifica non effettuata** (che non indica una verifica non soddisfatta ma una impossibilità a effettuarla) il valore finale non tiene conto di tale verifica.

#### Verifica stato limite di esercizio - fessurazione

Elemento	Ascissa (cm)	Ampiezza Fess. (mm)	Dist.fessure (mm)	Momenti agenti		Momenti prima fessurazione		Comb.	Tipo
				Mz ( kgxcm)	My ( kgxcm)	Mz ( kgxcm)	My ( kgxcm)		
13	27.00	2.99e-002	127.45	102117.42	2.00e-027	252975.56	153490.03	1	qprm
	27.00	3.05e-002	127.45	104308.22	2.01e-027	252975.56	153490.03	2	freq
	295.00	6.00e-002	127.45	-138492.98	1.01e-028	252975.56	153490.03	1	qprm
	295.00	6.31e-002	127.45	-141473.51	1.02e-028	252975.56	153490.03	2	freq
	563.00	2.99e-002	127.45	102117.42	-1.79e-027	252975.56	153490.03	1	qprm
	563.00	3.05e-002	127.45	104308.22	-1.81e-027	252975.56	153490.03	2	freq
14	14.50	2.94e-002	104.32	57270.95	0.00	140032.55	444641.62	1	qprm
	14.50	2.94e-002	104.32	57270.95	0.00	140032.55	444641.62	3	freq
	295.00	3.12e-002	104.32	-60749.43	0.00	140032.55	444641.62	1	qprm
	295.00	3.13e-002	104.32	-60903.26	1.01e-029	140032.55	444641.62	2	freq
	575.50	2.94e-002	104.32	57270.95	0.00	140032.55	444641.62	1	qprm
	575.50	2.94e-002	104.32	57270.95	0.00	140032.55	444641.62	3	freq
15	14.50	2.87e-002	104.32	55940.78	0.00	140032.55	444641.62	1	qprm
	14.50	2.87e-002	104.32	55940.78	0.00	140032.55	444641.62	3	freq
	295.00	3.19e-002	104.32	-62079.59	0.00	140032.55	444641.62	1	qprm
	295.00	3.19e-002	104.32	-62225.58	1.01e-029	140032.55	444641.62	2	freq
	575.50	2.87e-002	104.32	55940.78	0.00	140032.55	444641.62	1	qprm
	575.50	2.87e-002	104.32	55940.78	0.00	140032.55	444641.62	3	freq
16	14.50	2.87e-002	104.32	55940.78	0.00	140032.55	444641.62	1	qprm
	14.50	2.87e-002	104.32	55940.78	0.00	140032.55	444641.62	3	freq
	295.00	3.19e-002	104.32	-62079.59	0.00	140032.55	444641.62	1	qprm
	295.00	3.19e-002	104.32	-62225.58	1.01e-029	140032.55	444641.62	2	freq
	575.50	2.87e-002	104.32	55940.78	0.00	140032.55	444641.62	1	qprm
	575.50	2.87e-002	104.32	55940.78	0.00	140032.55	444641.62	3	freq
17	14.50	2.94e-002	104.32	57270.95	0.00	140032.55	444641.62	1	qprm



	14.50	2.94e-002	104.32	57270.95	0.00	140032.55	444641.62	3	freq
	295.00	3.12e-002	104.32	-60749.43	0.00	140032.55	444641.62	1	qprm
	295.00	3.13e-002	104.32	-60903.26	1.01e-029	140032.55	444641.62	2	freq
	575.50	2.94e-002	104.32	57270.95	0.00	140032.55	444641.62	1	qprm
	575.50	2.94e-002	104.32	57270.95	0.00	140032.55	444641.62	3	freq
18	27.00	2.99e-002	127.45	102117.42	2.00e-027	252975.56	153490.03	1	qprm
	27.00	3.05e-002	127.45	104308.22	2.01e-027	252975.56	153490.03	2	freq
	295.00	6.00e-002	127.45	-138492.98	1.01e-028	252975.56	153490.03	1	qprm
	295.00	6.31e-002	127.45	-141473.51	1.02e-028	252975.56	153490.03	2	freq
	563.00	2.99e-002	127.45	102117.42	-1.79e-027	252975.56	153490.03	1	qprm
	563.00	3.05e-002	127.45	104308.22	-1.81e-027	252975.56	153490.03	2	freq
19	27.00	4.15e-002	78.88	155702.43	-8.23e-027	252975.56	153490.03	1	qprm
	27.00	4.37e-002	78.88	161811.01	-8.26e-027	252975.56	153490.03	2	freq
	133.75	1.31e-002	127.45	-44873.21	-3.23e-027	252975.56	153490.03	1	qprm
	133.75	1.38e-002	127.45	-47042.85	-3.23e-027	252975.56	153490.03	2	freq
	253.00	3.42e-003	127.45	-11692.93	1.18e-027	252975.56	153490.03	1	qprm
	253.00	3.42e-003	127.45	-11692.93	1.18e-027	252975.56	153490.03	3	freq
20	27.00	5.50e-002	67.47	331058.54	-1.73e-027	260785.75	153490.03	1	qprm
	27.00	5.82e-002	67.47	345857.82	-1.74e-027	260785.75	153490.03	2	freq
	255.00	0.13	127.45	-211723.43	0.00	252975.56	153490.03	1	qprm
	255.00	0.14	127.45	-221218.30	5.05e-030	252975.56	153490.03	2	freq
	483.00	6.81e-002	78.88	237869.15	1.73e-027	260785.75	153490.03	1	qprm
	483.00	7.16e-002	78.88	248370.51	1.75e-027	260785.75	153490.03	2	freq
21	27.00	6.84e-002	67.47	395142.13	2.00e-027	268711.06	155685.38	1	qprm
	27.00	7.21e-002	67.47	412781.13	2.01e-027	268711.06	155685.38	2	freq
	295.00	0.19	127.45	-290417.95	3.03e-028	252975.56	153490.03	1	qprm
	295.00	0.20	127.45	-303375.98	3.02e-028	252975.56	153490.03	2	freq
	563.00	6.84e-002	67.47	395142.13	-1.39e-027	268711.06	155685.38	1	qprm
	563.00	7.21e-002	67.47	412781.13	-1.41e-027	268711.06	155685.38	2	freq
22	27.00	6.81e-002	78.88	237869.15	-1.75e-027	260785.75	153490.03	1	qprm
	27.00	7.16e-002	78.88	248370.51	-1.76e-027	260785.75	153490.03	2	freq
	255.00	0.13	127.45	-211723.43	-8.08e-028	252975.56	153490.03	1	qprm
	255.00	0.14	127.45	-221218.30	-8.13e-028	252975.56	153490.03	2	freq
	483.00	5.50e-002	67.47	331058.54	1.31e-028	260785.75	153490.03	1	qprm
	483.00	5.82e-002	67.47	345857.82	1.32e-028	260785.75	153490.03	2	freq
23	14.50	3.42e-003	127.45	-11692.93	-1.23e-027	252975.56	153490.03	1	qprm
	14.50	3.42e-003	127.45	-11692.93	-1.23e-027	252975.56	153490.03	3	freq
	133.75	1.31e-002	127.45	-44873.21	-2.87e-042	252975.56	153490.03	1	qprm
	133.75	1.38e-002	127.45	-47042.85	-2.91e-042	252975.56	153490.03	2	freq
	240.50	4.15e-002	78.88	155702.43	1.96e-027	252975.56	153490.03	1	qprm
	240.50	4.37e-002	78.88	161811.01	1.98e-027	252975.56	153490.03	2	freq
24	27.00	4.15e-002	78.88	155702.43	-8.23e-027	252975.56	153490.03	1	qprm
	27.00	4.37e-002	78.88	161811.01	-8.26e-027	252975.56	153490.03	2	freq
	133.75	1.31e-002	127.45	-44873.21	-3.23e-027	252975.56	153490.03	1	qprm
	133.75	1.38e-002	127.45	-47042.85	-3.23e-027	252975.56	153490.03	2	freq
	253.00	3.42e-003	127.45	-11692.93	1.18e-027	252975.56	153490.03	1	qprm
	253.00	3.42e-003	127.45	-11692.93	1.18e-027	252975.56	153490.03	3	freq
25	27.00	5.50e-002	67.47	331058.54	-1.73e-027	260785.75	153490.03	1	qprm
	27.00	5.82e-002	67.47	345857.82	-1.74e-027	260785.75	153490.03	2	freq
	255.00	0.13	127.45	-211723.43	0.00	252975.56	153490.03	1	qprm
	255.00	0.14	127.45	-221218.30	5.05e-030	252975.56	153490.03	2	freq
	483.00	6.81e-002	78.88	237869.15	1.73e-027	260785.75	153490.03	1	qprm
	483.00	7.16e-002	78.88	248370.51	1.75e-027	260785.75	153490.03	2	freq
26	27.00	6.84e-002	67.47	395142.13	2.00e-027	268711.06	155685.38	1	qprm
	27.00	7.21e-002	67.47	412781.13	2.01e-027	268711.06	155685.38	2	freq
	295.00	0.19	127.45	-290417.95	3.03e-028	252975.56	153490.03	1	qprm
	295.00	0.20	127.45	-303375.98	3.02e-028	252975.56	153490.03	2	freq
	563.00	6.84e-002	67.47	395142.13	-1.39e-027	268711.06	155685.38	1	qprm
	563.00	7.21e-002	67.47	412781.13	-1.41e-027	268711.06	155685.38	2	freq
27	27.00	6.81e-002	78.88	237869.15	-1.75e-027	260785.75	153490.03	1	qprm
	27.00	7.16e-002	78.88	248370.51	-1.76e-027	260785.75	153490.03	2	freq
	255.00	0.13	127.45	-211723.43	-8.08e-028	252975.56	153490.03	1	qprm
	255.00	0.14	127.45	-221218.30	-8.13e-028	252975.56	153490.03	2	freq
	483.00	5.50e-002	67.47	331058.54	1.31e-028	260785.75	153490.03	1	qprm
	483.00	5.82e-002	67.47	345857.82	1.32e-028	260785.75	153490.03	2	freq
28	14.50	3.42e-003	127.45	-11692.93	-1.23e-027	252975.56	153490.03	1	qprm
	14.50	3.42e-003	127.45	-11692.93	-1.23e-027	252975.56	153490.03	3	freq
	133.75	1.31e-002	127.45	-44873.21	-2.87e-042	252975.56	153490.03	1	qprm
	133.75	1.38e-002	127.45	-47042.85	-2.91e-042	252975.56	153490.03	2	freq
	240.50	4.15e-002	78.88	155702.43	1.96e-027	252975.56	153490.03	1	qprm
	240.50	4.37e-002	78.88	161811.01	1.98e-027	252975.56	153490.03	2	freq

Verifica stato limite di esercizio - tensioni massime nel calcestruzzo

Elemento	Ascissa (cm)	Tensione ( kg/cm2)	Combinazione rara			Comb.	Combinazione quasi permanente			Comb.
			Mz ( kgxcm)	My ( kgxcm)	Tensione ( kg/cm2)		Mz ( kgxcm)	My ( kgxcm)		
13	27.00	-18.78	113071.41	2.09e-027	4	-16.97	102117.42	2.00e-027	1	
	295.00	-25.48	-153395.63	1.04e-028	4	-23.01	-138492.98	1.01e-028	1	
	563.00	-18.78	113071.41	-1.88e-027	4	-16.97	102117.42	-1.79e-027	1	
14	14.50	-20.16	57270.95	0.00	5	-20.16	57270.95	0.00	1	
	295.00	-21.66	-61518.59	5.05e-029	4	-21.39	-60749.43	0.00	1	
	575.50	-20.16	57270.95	0.00	5	-20.16	57270.95	0.00	1	
15	14.50	-19.69	55940.78	0.00	5	-19.69	55940.78	0.00	1	
	295.00	-22.11	-62809.53	5.05e-029	4	-21.85	-62079.59	0.00	1	
	575.50	-19.69	55940.78	0.00	5	-19.69	55940.78	0.00	1	
16	14.50	-19.69	55940.78	0.00	5	-19.69	55940.78	0.00	1	
	295.00	-22.11	-62809.53	5.05e-029	4	-21.85	-62079.59	0.00	1	
	575.50	-19.69	55940.78	0.00	5	-19.69	55940.78	0.00	1	
17	14.50	-20.16	57270.95	0.00	5	-20.16	57270.95	0.00	1	
	295.00	-21.66	-61518.59	5.05e-029	4	-21.39	-60749.43	0.00	1	
	575.50	-20.16	57270.95	0.00	5	-20.16	57270.95	0.00	1	
18	27.00	-18.78	113071.41	2.09e-027	4	-16.97	102117.42	2.00e-027	1	
	295.00	-25.48	-153395.63	1.04e-028	4	-23.01	-138492.98	1.01e-028	1	
	563.00	-18.78	113071.41	-1.88e-027	4	-16.97	102117.42	-1.79e-027	1	
19	27.00	-27.13	186245.35	-8.36e-027	4	-22.68	155702.43	-8.23e-027	1	
	133.75	-9.26	-55721.40	-3.23e-027	4	-7.46	-44873.21	-3.23e-027	1	
	253.00	-1.94	-11692.93	1.18e-027	5	-1.94	-11692.93	1.18e-027	1	
20	27.00	-53.59	405054.96	-1.74e-027	4	-43.80	331058.54	-1.73e-027	1	
	255.00	-43.06	-259197.75	2.52e-029	4	-35.17	-211723.43	0.00	1	
	483.00	-42.30	290375.94	1.79e-027	4	-34.66	237869.15	1.73e-027	1	
21	27.00	-63.94	483337.12	2.07e-027	4	-52.27	395142.13	2.00e-027	1	
	295.00	-59.01	-355208.08	2.97e-028	4	-48.25	-290417.95	3.03e-028	1	
	563.00	-63.94	483337.12	-1.47e-027	4	-52.27	395142.13	-1.39e-027	1	
22	27.00	-42.30	290375.94	-1.80e-027	4	-34.66	237869.15	-1.75e-027	1	
	255.00	-43.06	-259197.75	-8.33e-028	4	-35.17	-211723.43	-8.08e-028	1	
	483.00	-53.59	405054.96	1.35e-028	4	-43.80	331058.54	1.31e-028	1	
23	14.50	-1.94	-11692.93	-1.23e-027	5	-1.94	-11692.93	-1.23e-027	1	
	133.75	-9.26	-55721.40	-3.05e-042	4	-7.46	-44873.21	-2.87e-042	1	
	240.50	-27.13	186245.35	2.08e-027	4	-22.68	155702.43	1.96e-027	1	
24	27.00	-27.13	186245.35	-8.36e-027	4	-22.68	155702.43	-8.23e-027	1	
	133.75	-9.26	-55721.40	-3.23e-027	4	-7.46	-44873.21	-3.23e-027	1	
	253.00	-1.94	-11692.93	1.18e-027	5	-1.94	-11692.93	1.18e-027	1	
25	27.00	-53.59	405054.96	-1.74e-027	4	-43.80	331058.54	-1.73e-027	1	
	255.00	-43.06	-259197.75	2.52e-029	4	-35.17	-211723.43	0.00	1	
	483.00	-42.30	290375.94	1.79e-027	4	-34.66	237869.15	1.73e-027	1	
26	27.00	-63.94	483337.12	2.07e-027	4	-52.27	395142.13	2.00e-027	1	
	295.00	-59.01	-355208.08	2.97e-028	4	-48.25	-290417.95	3.03e-028	1	
	563.00	-63.94	483337.12	-1.47e-027	4	-52.27	395142.13	-1.39e-027	1	
27	27.00	-42.30	290375.94	-1.80e-027	4	-34.66	237869.15	-1.75e-027	1	
	255.00	-43.06	-259197.75	-8.33e-028	4	-35.17	-211723.43	-8.08e-028	1	
	483.00	-53.59	405054.96	1.35e-028	4	-43.80	331058.54	1.31e-028	1	
28	14.50	-1.94	-11692.93	-1.23e-027	5	-1.94	-11692.93	-1.23e-027	1	
	133.75	-9.26	-55721.40	-3.05e-042	4	-7.46	-44873.21	-2.87e-042	1	
	240.50	-27.13	186245.35	2.08e-027	4	-22.68	155702.43	1.96e-027	1	

#### Verifica stato limite di esercizio - tensioni massime nell'acciaio

Elemento	Ascissa (cm)	Tensione ( kg/cm2)	Combinazione rara			Comb.	Combinazione quasi permanente			Comb.
			Mz ( kgxcm)	My ( kgxcm)	Tensione ( kg/cm2)		Mz ( kgxcm)	My ( kgxcm)		
13	27.00	801.54	113071.41	2.09e-027	4	723.89	102117.42	2.00e-027	1	
	295.00	1087.39	-153395.63	1.04e-028	4	981.74	-138492.98	1.01e-028	1	
	563.00	801.54	113071.41	-1.88e-027	4	723.89	102117.42	-1.79e-027	1	
14	14.50	869.96	57270.95	0.00	5	869.96	57270.95	0.00	1	
	295.00	934.48	-61518.59	5.05e-029	4	922.80	-60749.43	0.00	1	
	575.50	869.96	57270.95	0.00	5	869.96	57270.95	0.00	1	
15	14.50	849.76	55940.78	0.00	5	849.76	55940.78	0.00	1	
	295.00	954.09	-62809.53	5.05e-029	4	943.01	-62079.59	0.00	1	
	575.50	849.76	55940.78	0.00	5	849.76	55940.78	0.00	1	
16	14.50	849.76	55940.78	0.00	5	849.76	55940.78	0.00	1	
	295.00	954.09	-62809.53	5.05e-029	4	943.01	-62079.59	0.00	1	
	575.50	849.76	55940.78	0.00	5	849.76	55940.78	0.00	1	
17	14.50	869.96	57270.95	0.00	5	869.96	57270.95	0.00	1	
	295.00	934.48	-61518.59	5.05e-029	4	922.80	-60749.43	0.00	1	

	575.50	869.96	57270.95	0.00	5	869.96	57270.95	0.00	1
18	27.00	801.54	113071.41	2.09e-027	4	723.89	102117.42	2.00e-027	1
	295.00	1087.39	-153395.63	1.04e-028	4	981.74	-138492.98	1.01e-028	1
	563.00	801.54	113071.41	-1.88e-027	4	723.89	102117.42	-1.79e-027	1
19	27.00	893.93	186245.35	-8.36e-027	4	747.33	155702.43	-8.23e-027	1
	133.75	394.99	-55721.40	-3.23e-027	4	318.09	-44873.21	-3.23e-027	1
	253.00	82.89	-11692.93	1.18e-027	5	82.89	-11692.93	1.18e-027	1
20	27.00	1434.42	405054.96	-1.74e-027	4	1172.37	331058.54	-1.73e-027	1
	255.00	1837.39	-259197.75	2.52e-029	4	1500.86	-211723.43	0.00	1
	483.00	1393.74	290375.94	1.79e-027	4	1141.72	237869.15	1.73e-027	1
21	27.00	1711.64	483337.12	2.07e-027	4	1399.31	395142.13	2.00e-027	1
	295.00	2517.99	-355208.08	2.97e-028	4	2058.71	-290417.95	3.03e-028	1
	563.00	1711.64	483337.12	-1.47e-027	4	1399.31	395142.13	-1.39e-027	1
22	27.00	1393.74	290375.94	-1.80e-027	4	1141.72	237869.15	-1.75e-027	1
	255.00	1837.39	-259197.75	-8.33e-028	4	1500.86	-211723.43	-8.08e-028	1
	483.00	1434.42	405054.96	1.35e-028	4	1172.37	331058.54	1.31e-028	1
23	14.50	82.89	-11692.93	-1.23e-027	5	82.89	-11692.93	-1.23e-027	1
	133.75	394.99	-55721.40	-3.05e-042	4	318.09	-44873.21	-2.87e-042	1
	240.50	893.93	186245.35	2.08e-027	4	747.33	155702.43	1.96e-027	1
24	27.00	893.93	186245.35	-8.36e-027	4	747.33	155702.43	-8.23e-027	1
	133.75	394.99	-55721.40	-3.23e-027	4	318.09	-44873.21	-3.23e-027	1
	253.00	82.89	-11692.93	1.18e-027	5	82.89	-11692.93	1.18e-027	1
25	27.00	1434.42	405054.96	-1.74e-027	4	1172.37	331058.54	-1.73e-027	1
	255.00	1837.39	-259197.75	2.52e-029	4	1500.86	-211723.43	0.00	1
	483.00	1393.74	290375.94	1.79e-027	4	1141.72	237869.15	1.73e-027	1
26	27.00	1711.64	483337.12	2.07e-027	4	1399.31	395142.13	2.00e-027	1
	295.00	2517.99	-355208.08	2.97e-028	4	2058.71	-290417.95	3.03e-028	1
	563.00	1711.64	483337.12	-1.47e-027	4	1399.31	395142.13	-1.39e-027	1
27	27.00	1393.74	290375.94	-1.80e-027	4	1141.72	237869.15	-1.75e-027	1
	255.00	1837.39	-259197.75	-8.33e-028	4	1500.86	-211723.43	-8.08e-028	1
	483.00	1434.42	405054.96	1.35e-028	4	1172.37	331058.54	1.31e-028	1
28	14.50	82.89	-11692.93	-1.23e-027	5	82.89	-11692.93	-1.23e-027	1
	133.75	394.99	-55721.40	-3.05e-042	4	318.09	-44873.21	-2.87e-042	1
	240.50	893.93	186245.35	2.08e-027	4	747.33	155702.43	1.96e-027	1

#### Verifica taglio da azione sismica

Elem	Piano locale xy				Piano locale xz				Coeff. Sic.
	Msx ( kgxcm)	Mdx ( kgxcm)	Tsx ( kg)	Tdx ( kg)	Msx ( kgxcm)	Mdx ( kgxcm)	Tsx ( kg)	Tdx ( kg)	
13	581681.41	581681.41	-4359.71	4359.71	347333.00	347333.00	-1415.06	-1415.06	5.57
14	270298.05	270298.05	-1984.74	1984.74	898470.73	898470.73	-3498.47	-3498.47	10.00
15	270298.05	270298.05	-1984.74	1984.74	898470.73	898470.73	-3498.47	-3498.47	10.00
16	270298.05	270298.05	-1984.74	1984.74	898470.73	898470.73	-3498.47	-3498.47	10.00
17	270298.05	270298.05	-1984.74	1984.74	898470.73	898470.73	-3498.47	-3498.47	10.00
18	581681.41	581681.41	-4359.71	4359.71	347333.00	347333.00	-1415.06	-1415.06	5.57
19	581681.41	581681.41	-7978.79	7978.79	347333.00	347333.00	-3322.32	-3322.32	2.37
20	578437.83	578437.83	-8282.97	8282.97	427408.80	427408.80	-2044.13	-2044.13	3.82
21	583590.37	583590.37	-9259.93	9259.93	489429.52	489429.52	-1993.97	-1993.97	3.67
22	578437.83	578437.83	-8282.97	8282.97	427408.80	427408.80	-2044.13	-2044.13	3.82
23	581681.41	581681.41	-7978.79	7978.79	347333.00	347333.00	-3322.32	-3322.32	2.37
24	581681.41	581681.41	-7978.79	7978.79	347333.00	347333.00	-3322.32	-3322.32	2.37
25	578437.83	578437.83	-8282.97	8282.97	427408.80	427408.80	-2044.13	-2044.13	3.82
26	583590.37	583590.37	-9259.93	9259.93	489429.52	489429.52	-1993.97	-1993.97	3.67
27	578437.83	578437.83	-8282.97	8282.97	427408.80	427408.80	-2044.13	-2044.13	3.82
28	581681.41	581681.41	-7978.79	7978.79	347333.00	347333.00	-3322.32	-3322.32	2.37

Minimo fattore di sicurezza:

2.370865 >= 1.00

Per ogni elemento **Elem** e per ogni **Piano locale xy** e **xz** dell'elemento, vengono calcolati i momenti ultimi **Msx** e **Mdx** ai due estremi (sinistro **sx** e destro **dx**) tenendo conto per ogni combinazione di carico dell'azione assiale. Da questi vengono calcolati i tagli MASSIMI **Tsx** e **Tdx** derivanti dai due versi di sbandamento tenendo anche conto delle azioni dovute ai carichi gravitazionali. Qui vengono esposti i momenti ultimi MINIMI alle estremità per tutte le condizioni di carico e per i due versi di sbandamento. Vengono esposti anche i tagli MASSIMI alle estremità derivanti da questi meccanismi. Viene quindi esposto il **Coefficiente di Sicurezza MINIMO** delle verifiche a taglio dalle azioni suddette.

### 3. TRAVI DI FONDAZIONE

#### Spogliatoio.sap

All-In-One EWS 47 (03.04.2018) build 7089

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Parametri di progetto		
Normativa		
Normativa di riferimento	DM 2018 - Zona sismica - Bassa Duttilità	
Unità di misura		
Lunghezza	cm	
Forza	kg	
Pressione	kg/cm2	
Metodo di progetto		
Metodo	Stati limite	
Fattori sicurezza parziale		
Calcestruzzo	1.50	
Acciaio	1.15	
Legami costitutivi		
Asse parabola calcestruzzo (x1000)	2.00	
Fattore di riduzione addizionale	0.85	
Deformazione ultima calcestruzzo (x1000)	3.50	
Deformazione ultima acciaio (x1000)	10.00	
Incremento resistenza acciaio	0.00	
Opzioni di progetto		
Considerata l'eccentricità accidentale sui pilastri	NO	
Considerata la traslazione del diagramma dei momenti	SI	
Armatura longitudinale		
Lunghezza massima barre	cm	1200.00
Massima distanza barre	cm	1000.00
Diametri minimi di ancoraggio		20.00
Progetto antisismico		
Gerarchia delle resistenze	SI	
Fattore di sicurezza per la gerarchia delle resistenze	1.10	
Progetto per taglio dovuto ad azione simica	SI	
Progetto per duttilità dei pilastri-parete	SI	
Minimi e massimi per le travi		
Armatura minima tesa	F1.40000	
Armatura massima tesa	F3.50000	
Armatura minima totale	0.000	
Armatura massima totale		
Moltiplicatore di continuità dell'armatura in zona critica	0.00	
Rapporto di bilanciamento di armatura	0.50	
Lunghezza zona critica	H	
Minimi e massimi per i pilastri		
Armatura minima totale	0.010	
Armatura massima totale	0.040	
Minimi e massimi per travi di fondazione		
Armatura minima totale	0.002	
Modalità staffatura		
Staffe filo pilastro	SI	
Passo massimo nelle travi	33.000,H0.8,P666.666	
Passo massimo nei pilastri	25.000,D12	
Infittimento staffe agli estremi		
Passo zona critica travi	H0.25,D8,22.500,S24	
Lunghezza zona critica travi	H	
Passo zona critica pilastri	D8,17.500,m0.5,p12.50000J	
Lunghezza zona critica pilastri	M,L0.167,45.000	
Abbreviazioni usate nelle regole di assegnazione		
n	valore numerico	
Hn	n volte altezza della sezione asse locale y	
Ln	n moltiplica la lunghezza della trave	
Dn	n volte il diametro minimo armatura	
Sn	n volte il diametro della staffa	
Pn	Ast/bst: rapporto tra area staffa e corda	
Mn (maiuscolo)	dimensione massima della sezione	
mn (minuscolo)	dimensione minima della sezione	
Nn	moltiplicatore forza assiale di compressione	
Fn	inverso della resistenza dell'acciaio	

Caratteristiche del terreno			
Angolo attrito interno	°	25.00	Gamma 1.250000
Coesione	kg/cm2	0.00	Gamma 1.400000
Densità	kg/cm3	0.001800	Gamma 1.000000
Coeff. Sic. Portanza		1.800000	
Coeff. Sic. Scorrimento		1.100000	
Profondità piano posa	cm	80.00	

## Caratteristiche dei materiali

### Calcestruzzi

Calcestruzzo Calcestruzzo		
Denominazione materiale		C25/30
Resistenza cubica	kg/cm2	305.91
Resistenza a compressione	kg/cm2	143.88
Resistenza a trazione frattile 5%	kg/cm2	12.09
Tensione di aderenza	kg/cm2	27.21

### Acciai

Acciaio Calcestruzzo		
Denominazione materiale		B450C
Resistenza caratteristica acciaio	kg/cm2	4588.72
Resistenza di calcolo	kg/cm2	3990.19

## Tipi di carico

Nome	Tipo	Grav.	Gamma fav	Gamma unfav.	Gamma sismico	Psi 0	Psi 1	Psi 2	Psi 2 sismico	Phi (coeff. correl.)
Permanente	permanente	*	1.00	1.50	1.00	nd	nd	nd	nd	nd
Sismico SLU	sismico	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Sismico SLD	sismico	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Torcente SLU	sismico correlato	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Torcente SLD	sismico correlato	*	nd	1.00	0.00	nd	nd	nd	nd	nd
Cat. A: Residenziale	variabile	*	nd	1.30	1.00	0.70	0.50	0.30	0.30	1.00
Cat. B: Uffici	variabile	*	nd	1.30	1.00	0.70	0.50	0.30	0.30	1.00
Cat. C: Affollamento	variabile	*	nd	1.30	1.00	0.70	0.70	0.60	0.60	1.00
Cat. D: Commerciale	variabile	*	nd	1.30	1.00	0.70	0.70	0.60	0.60	1.00
Cat. E: Magazzini	variabile	*	nd	1.30	1.00	1.00	0.90	0.80	0.80	1.00
Cat. F: Rimesse (<30kN)	variabile	*	nd	1.30	1.00	0.70	0.70	0.60	0.60	1.00
Cat. G: Rimesse (>30kN)	variabile	*	nd	1.30	1.00	0.70	0.50	0.30	0.30	1.00
Cat. H: Copertura	variabile	*	nd	1.30	0.00	0.00	0.00	0.00	0.00	1.00
Neve (q<1000)	variabile	*	nd	1.30	1.00	0.50	0.20	0.00	0.00	1.00
Neve (q>1000)	variabile	*	nd	1.30	1.00	0.70	0.50	0.20	0.20	1.00
Vento	variabile non contemporaneo		nd	1.30	0.00	0.60	0.20	0.00	0.00	1.00
Torcente SLV	sismico correlato		nd	1.00	0.00	nd	nd	nd	nd	nd

## Condizioni di carico

(Fase) Nome	Tipo
(1) Dinamica SLV Y	Sismico SLU
(1) Dinamica SLV X	Sismico SLU
(1) Dinamica SLD Y	Sismico SLD
(1) Dinamica SLD X	Sismico SLD
(1) Permanenti	Permanente
(1) Accidentali	Neve (q<1000)
(1) Torcente di piano SLV	Torcente SLV
(1) Torcente di piano SLD	Torcente SLD

## Combinazioni di progetto dei carichi

1	-1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X
2	-1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
3	-1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X
4	-1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
5	1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X
6	1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
7	1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X
8	1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV Y + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
9	-1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y
10	-1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
11	-1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y
12	-1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
13	1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y
14	1.00 * (1) Torcente di piano SLV + -0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
15	1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y
16	1.00 * (1) Torcente di piano SLV + 0.30 * (1) Dinamica SLV X + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
17	1.30 * (1) Accidentali + 1.50 * (1) Permanenti
18	1.50 * (1) Permanenti

## Combinazioni di esercizio dei carichi

1	Quasi Perm.	1.00 * (1) Permanenti
2	Frequente	0.20 * (1) Accidentali + 1.00 * (1) Permanenti
3	Frequente	1.00 * (1) Permanenti
4	Rara	1.00 * (1) Accidentali + 1.00 * (1) Permanenti
5	Rara	1.00 * (1) Permanenti

## Combinazioni di danno dei carichi

1	-1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLD X
2	-1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLD X
3	1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLD X
4	1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLD X
5	-1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLD Y
6	-1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLD Y
7	1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLD Y
8	1.00 * (1) Torcente di piano SLD + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLD Y

## Combinazioni dei carichi per verifiche geotecniche

1	-1.00 * (1) Torcente di piano SLV + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X
2	-1.00 * (1) Torcente di piano SLV + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
3	1.00 * (1) Torcente di piano SLV + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV X
4	1.00 * (1) Torcente di piano SLV + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV X
5	-1.00 * (1) Torcente di piano SLV + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y
6	-1.00 * (1) Torcente di piano SLV + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
7	1.00 * (1) Torcente di piano SLV + 1.00 * (1) Permanenti + -1.00 * (1) Dinamica SLV Y
8	1.00 * (1) Torcente di piano SLV + 1.00 * (1) Permanenti + 1.00 * (1) Dinamica SLV Y
9	1.30 * (1) Accidentali + 1.00 * (1) Permanenti
10	1.00 * (1) Permanenti

## Elementi

Elemento	Dal nodo	Al nodo	Offset estremo sinistro (cm)			Offset estremo destro (cm)			Lunghezza (cm)
			x	y	z	x	y	z	
29	2	1	0.00	0.00	0.00	0.00	0.00	0.00	590.00
30	4	3	0.00	0.00	0.00	0.00	0.00	0.00	590.00
31	6	5	0.00	0.00	0.00	0.00	0.00	0.00	590.00
32	8	7	0.00	0.00	0.00	0.00	0.00	0.00	590.00
33	10	9	0.00	0.00	0.00	0.00	0.00	0.00	590.00
34	12	11	0.00	0.00	0.00	0.00	0.00	0.00	590.00
35	4	2	0.00	0.00	0.00	0.00	0.00	0.00	267.50
36	6	4	0.00	0.00	0.00	0.00	0.00	0.00	510.00
37	8	6	0.00	0.00	0.00	0.00	0.00	0.00	590.00
38	10	8	0.00	0.00	0.00	0.00	0.00	0.00	510.00
39	12	10	0.00	0.00	0.00	0.00	0.00	0.00	267.50
40	3	1	0.00	0.00	0.00	0.00	0.00	0.00	267.50
41	5	3	0.00	0.00	0.00	0.00	0.00	0.00	510.00
42	7	5	0.00	0.00	0.00	0.00	0.00	0.00	590.00
43	9	7	0.00	0.00	0.00	0.00	0.00	0.00	510.00
44	11	9	0.00	0.00	0.00	0.00	0.00	0.00	267.50

## Sezioni

### Sezione rettangolare

Elemento	Materiale	Altezza (cm)	Base (cm)
29	Calcestruzzo	50.00	60.00
30	Calcestruzzo	50.00	60.00
31	Calcestruzzo	50.00	60.00
32	Calcestruzzo	50.00	60.00
33	Calcestruzzo	50.00	60.00
34	Calcestruzzo	50.00	60.00
35	Calcestruzzo	50.00	60.00
36	Calcestruzzo	50.00	60.00
37	Calcestruzzo	50.00	60.00
38	Calcestruzzo	50.00	60.00
39	Calcestruzzo	50.00	60.00
40	Calcestruzzo	50.00	60.00
41	Calcestruzzo	50.00	60.00
42	Calcestruzzo	50.00	60.00
43	Calcestruzzo	50.00	60.00
44	Calcestruzzo	50.00	60.00

## Sollecitazioni agli estremi degli elementi

### Condizione "(1) Dinamica SLV Y"

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
29	0.0000e+000	-1.4278e+003	0.0000e+000	4.7321e+003	0.0000e+000	7.7862e+004
	0.0000e+000	1.4278e+003	0.0000e+000	-4.7321e+003	0.0000e+000	7.7862e+004
30	0.0000e+000	3.0857e+002	0.0000e+000	4.3685e+003	0.0000e+000	-3.2926e+004
	0.0000e+000	-3.0857e+002	0.0000e+000	-4.3685e+003	0.0000e+000	-3.2926e+004
31	0.0000e+000	9.3236e+001	0.0000e+000	3.6939e+003	0.0000e+000	-5.9853e+003
	0.0000e+000	-9.3236e+001	0.0000e+000	-3.6939e+003	0.0000e+000	-5.9853e+003

32	0.0000e+000	-9.3236e+001	0.0000e+000	3.6939e+003	0.0000e+000	5.9853e+003
	0.0000e+000	9.3236e+001	0.0000e+000	-3.6939e+003	0.0000e+000	5.9853e+003
33	0.0000e+000	-3.0857e+002	0.0000e+000	4.3685e+003	0.0000e+000	3.2926e+004
	0.0000e+000	3.0857e+002	0.0000e+000	-4.3685e+003	0.0000e+000	3.2926e+004
34	0.0000e+000	1.4278e+003	0.0000e+000	4.7321e+003	0.0000e+000	-7.7862e+004
	0.0000e+000	-1.4278e+003	0.0000e+000	-4.7321e+003	0.0000e+000	-7.7862e+004
35	0.0000e+000	-1.3184e+003	0.0000e+000	-3.7340e+004	0.0000e+000	1.5303e+005
	0.0000e+000	-3.3824e+002	0.0000e+000	-3.8483e+004	0.0000e+000	-1.2284e+005
36	0.0000e+000	-9.6226e+002	0.0000e+000	-3.5660e+003	0.0000e+000	2.2270e+005
	0.0000e+000	-1.4492e+003	0.0000e+000	-3.6946e+003	0.0000e+000	-2.7701e+005
37	0.0000e+000	-1.0114e+003	0.0000e+000	1.8450e+003	0.0000e+000	2.1159e+005
	0.0000e+000	-1.0114e+003	0.0000e+000	1.8450e+003	0.0000e+000	-2.1159e+005
38	0.0000e+000	-1.4492e+003	0.0000e+000	-3.6946e+003	0.0000e+000	2.7701e+005
	0.0000e+000	-9.6226e+002	0.0000e+000	-3.5660e+003	0.0000e+000	-2.2270e+005
39	0.0000e+000	-3.3824e+002	0.0000e+000	-3.8483e+004	0.0000e+000	1.2284e+005
	0.0000e+000	-1.3184e+003	0.0000e+000	-3.7340e+004	0.0000e+000	-1.5303e+005
40	0.0000e+000	-1.3184e+003	0.0000e+000	3.7340e+004	0.0000e+000	1.5303e+005
	0.0000e+000	-3.3824e+002	0.0000e+000	3.8483e+004	0.0000e+000	-1.2284e+005
41	0.0000e+000	-9.6226e+002	0.0000e+000	3.5660e+003	0.0000e+000	2.2270e+005
	0.0000e+000	-1.4492e+003	0.0000e+000	3.6946e+003	0.0000e+000	-2.7701e+005
42	0.0000e+000	-1.0114e+003	0.0000e+000	-1.8450e+003	0.0000e+000	2.1159e+005
	0.0000e+000	-1.0114e+003	0.0000e+000	-1.8450e+003	0.0000e+000	-2.1159e+005
43	0.0000e+000	-1.4492e+003	0.0000e+000	3.6946e+003	0.0000e+000	2.7701e+005
	0.0000e+000	-9.6226e+002	0.0000e+000	3.5660e+003	0.0000e+000	-2.2270e+005
44	0.0000e+000	-3.3824e+002	0.0000e+000	3.8483e+004	0.0000e+000	1.2284e+005
	0.0000e+000	-1.3184e+003	0.0000e+000	3.7340e+004	0.0000e+000	-1.5303e+005

#### Condizione "(1) Dinamica SLV X"

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
29	0.0000e+000	-1.0133e+003	0.0000e+000	-6.2609e+004	0.0000e+000	5.3039e+005
	0.0000e+000	-1.0133e+003	0.0000e+000	-6.2609e+004	0.0000e+000	-5.3039e+005
30	0.0000e+000	-9.2687e+002	0.0000e+000	-2.8842e+004	0.0000e+000	3.2450e+005
	0.0000e+000	-9.2687e+002	0.0000e+000	-2.8842e+004	0.0000e+000	-3.2450e+005
31	0.0000e+000	-8.8087e+002	0.0000e+000	-2.0320e+002	0.0000e+000	2.4866e+005
	0.0000e+000	-8.8087e+002	0.0000e+000	-2.0320e+002	0.0000e+000	-2.4866e+005
32	0.0000e+000	-8.8087e+002	0.0000e+000	2.0320e+002	0.0000e+000	2.4866e+005
	0.0000e+000	-8.8087e+002	0.0000e+000	2.0320e+002	0.0000e+000	-2.4866e+005
33	0.0000e+000	-9.2687e+002	0.0000e+000	2.8842e+004	0.0000e+000	3.2450e+005
	0.0000e+000	-9.2687e+002	0.0000e+000	2.8842e+004	0.0000e+000	-3.2450e+005
34	0.0000e+000	-1.0133e+003	0.0000e+000	6.2609e+004	0.0000e+000	5.3039e+005
	0.0000e+000	-1.0133e+003	0.0000e+000	6.2609e+004	0.0000e+000	-5.3039e+005
35	0.0000e+000	6.9561e+002	0.0000e+000	1.4004e+005	0.0000e+000	3.6154e+004
	0.0000e+000	-2.0737e+003	0.0000e+000	1.5131e+005	0.0000e+000	-8.9094e+004
36	0.0000e+000	7.0193e+002	0.0000e+000	2.1651e+004	0.0000e+000	-5.3410e+004
	0.0000e+000	-8.9836e+002	0.0000e+000	3.3950e+004	0.0000e+000	-3.7806e+004
37	0.0000e+000	6.2109e+002	0.0000e+000	-5.7125e+003	0.0000e+000	-5.4875e+004
	0.0000e+000	-6.2109e+002	0.0000e+000	5.7125e+003	0.0000e+000	-5.4875e+004
38	0.0000e+000	8.9836e+002	0.0000e+000	-3.3950e+004	0.0000e+000	-3.7806e+004
	0.0000e+000	-7.0193e+002	0.0000e+000	-2.1651e+004	0.0000e+000	-5.3410e+004
39	0.0000e+000	2.0737e+003	0.0000e+000	-1.5131e+005	0.0000e+000	-8.9094e+004
	0.0000e+000	-6.9561e+002	0.0000e+000	-1.4004e+005	0.0000e+000	3.6154e+004
40	0.0000e+000	-6.9561e+002	0.0000e+000	1.4004e+005	0.0000e+000	-3.6154e+004
	0.0000e+000	2.0737e+003	0.0000e+000	1.5131e+005	0.0000e+000	8.9094e+004
41	0.0000e+000	-7.0193e+002	0.0000e+000	2.1651e+004	0.0000e+000	5.3410e+004
	0.0000e+000	8.9836e+002	0.0000e+000	3.3950e+004	0.0000e+000	3.7806e+004
42	0.0000e+000	-6.2109e+002	0.0000e+000	-5.7125e+003	0.0000e+000	5.4875e+004
	0.0000e+000	6.2109e+002	0.0000e+000	5.7125e+003	0.0000e+000	5.4875e+004
43	0.0000e+000	-8.9836e+002	0.0000e+000	-3.3950e+004	0.0000e+000	3.7806e+004
	0.0000e+000	7.0193e+002	0.0000e+000	-2.1651e+004	0.0000e+000	5.3410e+004
44	0.0000e+000	-2.0737e+003	0.0000e+000	-1.5131e+005	0.0000e+000	8.9094e+004
	0.0000e+000	6.9561e+002	0.0000e+000	-1.4004e+005	0.0000e+000	-3.6154e+004

#### Condizione "(1) Dinamica SLD Y"

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
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29	0.0000e+000	-1.7179e+003	0.0000e+000	5.6935e+003	0.0000e+000	9.3681e+004
	0.0000e+000	1.7179e+003	0.0000e+000	-5.6935e+003	0.0000e+000	9.3681e+004
30	0.0000e+000	3.7126e+002	0.0000e+000	5.2561e+003	0.0000e+000	-3.9616e+004
	0.0000e+000	-3.7126e+002	0.0000e+000	-5.2561e+003	0.0000e+000	-3.9616e+004
31	0.0000e+000	1.1218e+002	0.0000e+000	4.4444e+003	0.0000e+000	-7.2014e+003
	0.0000e+000	-1.1218e+002	0.0000e+000	-4.4444e+003	0.0000e+000	-7.2014e+003
32	0.0000e+000	-1.1218e+002	0.0000e+000	4.4444e+003	0.0000e+000	7.2014e+003
	0.0000e+000	1.1218e+002	0.0000e+000	-4.4444e+003	0.0000e+000	7.2014e+003
33	0.0000e+000	-3.7126e+002	0.0000e+000	5.2561e+003	0.0000e+000	3.9616e+004
	0.0000e+000	3.7126e+002	0.0000e+000	-5.2561e+003	0.0000e+000	3.9616e+004
34	0.0000e+000	1.7179e+003	0.0000e+000	5.6935e+003	0.0000e+000	-9.3681e+004
	0.0000e+000	-1.7179e+003	0.0000e+000	-5.6935e+003	0.0000e+000	-9.3681e+004
35	0.0000e+000	-1.5863e+003	0.0000e+000	-4.4927e+004	0.0000e+000	1.8412e+005
	0.0000e+000	-4.0696e+002	0.0000e+000	-4.6302e+004	0.0000e+000	-1.4779e+005
36	0.0000e+000	-1.1578e+003	0.0000e+000	-4.2905e+003	0.0000e+000	2.6795e+005
	0.0000e+000	-1.7436e+003	0.0000e+000	-4.4453e+003	0.0000e+000	-3.3329e+005
37	0.0000e+000	-1.2169e+003	0.0000e+000	2.2199e+003	0.0000e+000	2.5457e+005
	0.0000e+000	-1.2169e+003	0.0000e+000	2.2199e+003	0.0000e+000	-2.5457e+005
38	0.0000e+000	-1.7436e+003	0.0000e+000	-4.4453e+003	0.0000e+000	3.3329e+005
	0.0000e+000	-1.1578e+003	0.0000e+000	-4.2905e+003	0.0000e+000	-2.6795e+005
39	0.0000e+000	-4.0696e+002	0.0000e+000	-4.6302e+004	0.0000e+000	1.4779e+005
	0.0000e+000	-1.5863e+003	0.0000e+000	-4.4927e+004	0.0000e+000	-1.8412e+005
40	0.0000e+000	-1.5863e+003	0.0000e+000	4.4927e+004	0.0000e+000	1.8412e+005
	0.0000e+000	-4.0696e+002	0.0000e+000	4.6302e+004	0.0000e+000	-1.4779e+005
41	0.0000e+000	-1.1578e+003	0.0000e+000	4.2905e+003	0.0000e+000	2.6795e+005
	0.0000e+000	-1.7436e+003	0.0000e+000	4.4453e+003	0.0000e+000	-3.3329e+005
42	0.0000e+000	-1.2169e+003	0.0000e+000	-2.2199e+003	0.0000e+000	2.5457e+005
	0.0000e+000	-1.2169e+003	0.0000e+000	-2.2199e+003	0.0000e+000	-2.5457e+005
43	0.0000e+000	-1.7436e+003	0.0000e+000	4.4453e+003	0.0000e+000	3.3329e+005
	0.0000e+000	-1.1578e+003	0.0000e+000	4.2905e+003	0.0000e+000	-2.6795e+005
44	0.0000e+000	-4.0696e+002	0.0000e+000	4.6302e+004	0.0000e+000	1.4779e+005
	0.0000e+000	-1.5863e+003	0.0000e+000	4.4927e+004	0.0000e+000	-1.8412e+005

**Condizione "(1) Dinamica SLD X"**

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
29	0.0000e+000	-1.2192e+003	0.0000e+000	-7.5330e+004	0.0000e+000	6.3815e+005
	0.0000e+000	-1.2192e+003	0.0000e+000	-7.5330e+004	0.0000e+000	-6.3815e+005
30	0.0000e+000	-1.1152e+003	0.0000e+000	-3.4702e+004	0.0000e+000	3.9042e+005
	0.0000e+000	-1.1152e+003	0.0000e+000	-3.4702e+004	0.0000e+000	-3.9042e+005
31	0.0000e+000	-1.0598e+003	0.0000e+000	-2.4449e+002	0.0000e+000	2.9917e+005
	0.0000e+000	-1.0598e+003	0.0000e+000	-2.4449e+002	0.0000e+000	-2.9917e+005
32	0.0000e+000	-1.0598e+003	0.0000e+000	2.4449e+002	0.0000e+000	2.9917e+005
	0.0000e+000	-1.0598e+003	0.0000e+000	2.4449e+002	0.0000e+000	-2.9917e+005
33	0.0000e+000	-1.1152e+003	0.0000e+000	3.4702e+004	0.0000e+000	3.9042e+005
	0.0000e+000	-1.1152e+003	0.0000e+000	3.4702e+004	0.0000e+000	-3.9042e+005
34	0.0000e+000	-1.2192e+003	0.0000e+000	7.5330e+004	0.0000e+000	6.3815e+005
	0.0000e+000	-1.2192e+003	0.0000e+000	7.5330e+004	0.0000e+000	-6.3815e+005
35	0.0000e+000	8.3694e+002	0.0000e+000	1.6849e+005	0.0000e+000	4.3499e+004
	0.0000e+000	-2.4950e+003	0.0000e+000	1.8205e+005	0.0000e+000	-1.0719e+005
36	0.0000e+000	8.4454e+002	0.0000e+000	2.6049e+004	0.0000e+000	-6.4261e+004
	0.0000e+000	-1.0809e+003	0.0000e+000	4.0847e+004	0.0000e+000	-4.5487e+004
37	0.0000e+000	7.4728e+002	0.0000e+000	-6.8731e+003	0.0000e+000	-6.6024e+004
	0.0000e+000	-7.4728e+002	0.0000e+000	6.8731e+003	0.0000e+000	-6.6024e+004
38	0.0000e+000	1.0809e+003	0.0000e+000	-4.0847e+004	0.0000e+000	-4.5487e+004
	0.0000e+000	-8.4454e+002	0.0000e+000	-2.6049e+004	0.0000e+000	-6.4261e+004
39	0.0000e+000	2.4950e+003	0.0000e+000	-1.8205e+005	0.0000e+000	-1.0719e+005
	0.0000e+000	-8.3694e+002	0.0000e+000	-1.6849e+005	0.0000e+000	4.3499e+004
40	0.0000e+000	-8.3694e+002	0.0000e+000	1.6849e+005	0.0000e+000	-4.3499e+004
	0.0000e+000	2.4950e+003	0.0000e+000	1.8205e+005	0.0000e+000	1.0719e+005
41	0.0000e+000	-8.4454e+002	0.0000e+000	2.6049e+004	0.0000e+000	6.4261e+004
	0.0000e+000	1.0809e+003	0.0000e+000	4.0847e+004	0.0000e+000	4.5487e+004
42	0.0000e+000	-7.4728e+002	0.0000e+000	-6.8731e+003	0.0000e+000	6.6024e+004
	0.0000e+000	7.4728e+002	0.0000e+000	6.8731e+003	0.0000e+000	6.6024e+004



43	0.0000e+000	-1.0809e+003	0.0000e+000	-4.0847e+004	0.0000e+000	4.5487e+004
	0.0000e+000	8.4454e+002	0.0000e+000	-2.6049e+004	0.0000e+000	6.4261e+004
44	0.0000e+000	-2.4950e+003	0.0000e+000	-1.8205e+005	0.0000e+000	1.0719e+005
	0.0000e+000	8.3694e+002	0.0000e+000	-1.6849e+005	0.0000e+000	-4.3499e+004

#### Condizione "(1) Permanenti"

Elemento	Nx ( kg)	Ty ( kg)	Tz ( kg)	Mx ( kgxcm)	My ( kgxcm)	Mz ( kgxcm)
29	0.0000e+000	2.8167e+003	0.0000e+000	-2.4514e+003	0.0000e+000	-4.7849e+004
	0.0000e+000	-2.8167e+003	0.0000e+000	2.4514e+003	0.0000e+000	-4.7849e+004
30	0.0000e+000	3.3263e+003	0.0000e+000	-2.0304e+003	0.0000e+000	-5.5362e+004
	0.0000e+000	-3.3263e+003	0.0000e+000	2.0304e+003	0.0000e+000	-5.5362e+004
31	0.0000e+000	3.3937e+003	0.0000e+000	-5.4005e+002	0.0000e+000	-4.5096e+004
	0.0000e+000	-3.3937e+003	0.0000e+000	5.4005e+002	0.0000e+000	-4.5096e+004
32	0.0000e+000	3.3937e+003	0.0000e+000	5.4005e+002	0.0000e+000	-4.5096e+004
	0.0000e+000	-3.3937e+003	0.0000e+000	-5.4005e+002	0.0000e+000	-4.5096e+004
33	0.0000e+000	3.3263e+003	0.0000e+000	2.0304e+003	0.0000e+000	-5.5362e+004
	0.0000e+000	-3.3263e+003	0.0000e+000	-2.0304e+003	0.0000e+000	-5.5362e+004
34	0.0000e+000	2.8167e+003	0.0000e+000	2.4514e+003	0.0000e+000	-4.7849e+004
	0.0000e+000	-2.8167e+003	0.0000e+000	-2.4514e+003	0.0000e+000	-4.7849e+004
35	0.0000e+000	3.3510e+003	0.0000e+000	-3.7640e+004	0.0000e+000	-2.1293e+005
	0.0000e+000	-1.9624e+003	0.0000e+000	-2.8356e+004	0.0000e+000	-7.4225e+003
36	0.0000e+000	4.7268e+003	0.0000e+000	-1.7365e+004	0.0000e+000	-4.2309e+005
	0.0000e+000	-3.3939e+003	0.0000e+000	2.2897e+003	0.0000e+000	-1.9302e+005
37	0.0000e+000	4.5777e+003	0.0000e+000	-1.1684e+004	0.0000e+000	-3.9447e+005
	0.0000e+000	-4.5777e+003	0.0000e+000	1.1684e+004	0.0000e+000	-3.9447e+005
38	0.0000e+000	3.3939e+003	0.0000e+000	-2.2897e+003	0.0000e+000	-1.9302e+005
	0.0000e+000	-4.7268e+003	0.0000e+000	1.7365e+004	0.0000e+000	-4.2309e+005
39	0.0000e+000	1.9624e+003	0.0000e+000	2.8356e+004	0.0000e+000	-7.4225e+003
	0.0000e+000	-3.3510e+003	0.0000e+000	3.7640e+004	0.0000e+000	-2.1293e+005
40	0.0000e+000	3.3510e+003	0.0000e+000	3.7640e+004	0.0000e+000	-2.1293e+005
	0.0000e+000	-1.9624e+003	0.0000e+000	2.8356e+004	0.0000e+000	-7.4225e+003
41	0.0000e+000	4.7268e+003	0.0000e+000	1.7365e+004	0.0000e+000	-4.2309e+005
	0.0000e+000	-3.3939e+003	0.0000e+000	-2.2897e+003	0.0000e+000	-1.9302e+005
42	0.0000e+000	4.5777e+003	0.0000e+000	1.1684e+004	0.0000e+000	-3.9447e+005
	0.0000e+000	-4.5777e+003	0.0000e+000	-1.1684e+004	0.0000e+000	-3.9447e+005
43	0.0000e+000	3.3939e+003	0.0000e+000	2.2897e+003	0.0000e+000	-1.9302e+005
	0.0000e+000	-4.7268e+003	0.0000e+000	-1.7365e+004	0.0000e+000	-4.2309e+005
44	0.0000e+000	1.9624e+003	0.0000e+000	-2.8356e+004	0.0000e+000	-7.4225e+003
	0.0000e+000	-3.3510e+003	0.0000e+000	-3.7640e+004	0.0000e+000	-2.1293e+005

#### Condizione "(1) Accidentali"

Elemento	Nx ( kg)	Ty ( kg)	Tz ( kg)	Mx ( kgxcm)	My ( kgxcm)	Mz ( kgxcm)
29	0.0000e+000	4.0137e+002	0.0000e+000	1.6809e+001	0.0000e+000	-9.3831e+003
	0.0000e+000	-4.0137e+002	0.0000e+000	-1.6809e+001	0.0000e+000	-9.3831e+003
30	0.0000e+000	4.4491e+002	0.0000e+000	-2.5508e+002	0.0000e+000	-8.8598e+003
	0.0000e+000	-4.4491e+002	0.0000e+000	2.5508e+002	0.0000e+000	-8.8598e+003
31	0.0000e+000	5.5692e+002	0.0000e+000	-1.2358e+002	0.0000e+000	-1.3024e+004
	0.0000e+000	-5.5692e+002	0.0000e+000	1.2358e+002	0.0000e+000	-1.3024e+004
32	0.0000e+000	5.5692e+002	0.0000e+000	1.2358e+002	0.0000e+000	-1.3024e+004
	0.0000e+000	-5.5692e+002	0.0000e+000	-1.2358e+002	0.0000e+000	-1.3024e+004
33	0.0000e+000	4.4491e+002	0.0000e+000	2.5508e+002	0.0000e+000	-8.8598e+003
	0.0000e+000	-4.4491e+002	0.0000e+000	-2.5508e+002	0.0000e+000	-8.8598e+003
34	0.0000e+000	4.0137e+002	0.0000e+000	-1.6809e+001	0.0000e+000	-9.3831e+003
	0.0000e+000	-4.0137e+002	0.0000e+000	1.6809e+001	0.0000e+000	-9.3831e+003
35	0.0000e+000	6.5400e+002	0.0000e+000	-4.4360e+003	0.0000e+000	-5.1706e+004
	0.0000e+000	-2.2044e+002	0.0000e+000	-3.2416e+003	0.0000e+000	2.9655e+003
36	0.0000e+000	9.3132e+002	0.0000e+000	-4.0080e+003	0.0000e+000	-8.3602e+004
	0.0000e+000	-6.7040e+002	0.0000e+000	-1.3516e+003	0.0000e+000	-4.1612e+004
37	0.0000e+000	9.0188e+002	0.0000e+000	-1.6609e+003	0.0000e+000	-7.7340e+004
	0.0000e+000	-9.0188e+002	0.0000e+000	1.6609e+003	0.0000e+000	-7.7340e+004
38	0.0000e+000	6.7040e+002	0.0000e+000	1.3516e+003	0.0000e+000	-4.1612e+004
	0.0000e+000	-9.3132e+002	0.0000e+000	4.0080e+003	0.0000e+000	-8.3602e+004
39	0.0000e+000	2.2044e+002	0.0000e+000	3.2416e+003	0.0000e+000	2.9655e+003
	0.0000e+000	-6.5400e+002	0.0000e+000	4.4360e+003	0.0000e+000	-5.1706e+004

40	0.0000e+000	6.5400e+002	0.0000e+000	4.4360e+003	0.0000e+000	-5.1706e+004
	0.0000e+000	-2.2044e+002	0.0000e+000	3.2416e+003	0.0000e+000	2.9655e+003
41	0.0000e+000	9.3132e+002	0.0000e+000	4.0080e+003	0.0000e+000	-8.3602e+004
	0.0000e+000	-6.7040e+002	0.0000e+000	1.3516e+003	0.0000e+000	-4.1612e+004
42	0.0000e+000	9.0188e+002	0.0000e+000	1.6609e+003	0.0000e+000	-7.7340e+004
	0.0000e+000	-9.0188e+002	0.0000e+000	-1.6609e+003	0.0000e+000	-7.7340e+004
43	0.0000e+000	6.7040e+002	0.0000e+000	-1.3516e+003	0.0000e+000	-4.1612e+004
	0.0000e+000	-9.3132e+002	0.0000e+000	-4.0080e+003	0.0000e+000	-8.3602e+004
44	0.0000e+000	2.2044e+002	0.0000e+000	-3.2416e+003	0.0000e+000	2.9655e+003
	0.0000e+000	-6.5400e+002	0.0000e+000	-4.4360e+003	0.0000e+000	-5.1706e+004

**Condizione "(1) Torcente di piano SLV"**

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
29	0.0000e+000	-1.5984e+002	0.0000e+000	-2.4126e+003	0.0000e+000	5.4933e+004
	0.0000e+000	-1.5984e+002	0.0000e+000	-2.4126e+003	0.0000e+000	-5.4933e+004
30	0.0000e+000	-5.8467e+001	0.0000e+000	1.3248e+003	0.0000e+000	2.4052e+004
	0.0000e+000	-5.8467e+001	0.0000e+000	1.3248e+003	0.0000e+000	-2.4052e+004
31	0.0000e+000	-2.4479e+001	0.0000e+000	3.4377e+003	0.0000e+000	7.4826e+003
	0.0000e+000	-2.4479e+001	0.0000e+000	3.4377e+003	0.0000e+000	-7.4826e+003
32	0.0000e+000	2.4479e+001	0.0000e+000	3.4377e+003	0.0000e+000	-7.4826e+003
	0.0000e+000	2.4479e+001	0.0000e+000	3.4377e+003	0.0000e+000	7.4826e+003
33	0.0000e+000	5.8467e+001	0.0000e+000	1.3248e+003	0.0000e+000	-2.4052e+004
	0.0000e+000	5.8467e+001	0.0000e+000	1.3248e+003	0.0000e+000	2.4052e+004
34	0.0000e+000	1.5984e+002	0.0000e+000	-2.4126e+003	0.0000e+000	-5.4933e+004
	0.0000e+000	1.5984e+002	0.0000e+000	-2.4126e+003	0.0000e+000	5.4933e+004
35	0.0000e+000	-7.2350e+000	0.0000e+000	1.3812e+004	0.0000e+000	1.2054e+004
	0.0000e+000	-2.0289e+002	0.0000e+000	1.4774e+004	0.0000e+000	-1.2995e+004
36	0.0000e+000	-2.3547e+001	0.0000e+000	4.6188e+003	0.0000e+000	1.0369e+004
	0.0000e+000	-1.4502e+002	0.0000e+000	5.3595e+003	0.0000e+000	-1.7372e+004
37	0.0000e+000	-6.8282e+001	0.0000e+000	3.1954e+003	0.0000e+000	1.2873e+004
	0.0000e+000	-6.8282e+001	0.0000e+000	3.1954e+003	0.0000e+000	-1.2873e+004
38	0.0000e+000	-1.4502e+002	0.0000e+000	5.3595e+003	0.0000e+000	1.7372e+004
	0.0000e+000	-2.3547e+001	0.0000e+000	4.6188e+003	0.0000e+000	-1.0369e+004
39	0.0000e+000	-2.0289e+002	0.0000e+000	1.4774e+004	0.0000e+000	1.2995e+004
	0.0000e+000	-7.2350e+000	0.0000e+000	1.3812e+004	0.0000e+000	-1.2054e+004
40	0.0000e+000	7.2350e+000	0.0000e+000	1.3812e+004	0.0000e+000	-1.2054e+004
	0.0000e+000	2.0289e+002	0.0000e+000	1.4774e+004	0.0000e+000	1.2995e+004
41	0.0000e+000	2.3547e+001	0.0000e+000	4.6188e+003	0.0000e+000	-1.0369e+004
	0.0000e+000	1.4502e+002	0.0000e+000	5.3595e+003	0.0000e+000	1.7372e+004
42	0.0000e+000	6.8282e+001	0.0000e+000	3.1954e+003	0.0000e+000	-1.2873e+004
	0.0000e+000	6.8282e+001	0.0000e+000	3.1954e+003	0.0000e+000	1.2873e+004
43	0.0000e+000	1.4502e+002	0.0000e+000	5.3595e+003	0.0000e+000	-1.7372e+004
	0.0000e+000	2.3547e+001	0.0000e+000	4.6188e+003	0.0000e+000	1.0369e+004
44	0.0000e+000	2.0289e+002	0.0000e+000	1.4774e+004	0.0000e+000	-1.2995e+004
	0.0000e+000	7.2350e+000	0.0000e+000	1.3812e+004	0.0000e+000	1.2054e+004

**Condizione "(1) Torcente di piano SLD"**

Elemento	Nx ( kg )	Ty ( kg )	Tz ( kg )	Mx ( kgxcm )	My ( kgxcm )	Mz ( kgxcm )
29	0.0000e+000	-5.3249e+001	0.0000e+000	-8.0375e+002	0.0000e+000	1.8301e+004
	0.0000e+000	-5.3249e+001	0.0000e+000	-8.0375e+002	0.0000e+000	-1.8301e+004
30	0.0000e+000	-1.9478e+001	0.0000e+000	4.4134e+002	0.0000e+000	8.0129e+003
	0.0000e+000	-1.9478e+001	0.0000e+000	4.4134e+002	0.0000e+000	-8.0129e+003
31	0.0000e+000	-8.1550e+000	0.0000e+000	1.1453e+003	0.0000e+000	2.4928e+003
	0.0000e+000	-8.1550e+000	0.0000e+000	1.1453e+003	0.0000e+000	-2.4928e+003
32	0.0000e+000	8.1550e+000	0.0000e+000	1.1453e+003	0.0000e+000	-2.4928e+003
	0.0000e+000	8.1550e+000	0.0000e+000	1.1453e+003	0.0000e+000	2.4928e+003
33	0.0000e+000	1.9478e+001	0.0000e+000	4.4134e+002	0.0000e+000	-8.0129e+003
	0.0000e+000	1.9478e+001	0.0000e+000	4.4134e+002	0.0000e+000	8.0129e+003
34	0.0000e+000	5.3249e+001	0.0000e+000	-8.0375e+002	0.0000e+000	-1.8301e+004
	0.0000e+000	5.3249e+001	0.0000e+000	-8.0375e+002	0.0000e+000	1.8301e+004
35	0.0000e+000	-2.4103e+000	0.0000e+000	4.6014e+003	0.0000e+000	4.0158e+003
	0.0000e+000	-6.7592e+001	0.0000e+000	4.9218e+003	0.0000e+000	-4.3293e+003
36	0.0000e+000	-7.8447e+000	0.0000e+000	1.5388e+003	0.0000e+000	3.4545e+003
	0.0000e+000	-4.8314e+001	0.0000e+000	1.7855e+003	0.0000e+000	-5.7874e+003

37	0.0000e+000	-2.2748e+001	0.0000e+000	1.0645e+003	0.0000e+000	4.2885e+003
	0.0000e+000	-2.2748e+001	0.0000e+000	1.0645e+003	0.0000e+000	-4.2885e+003
38	0.0000e+000	-4.8314e+001	0.0000e+000	1.7855e+003	0.0000e+000	5.7874e+003
	0.0000e+000	-7.8447e+000	0.0000e+000	1.5388e+003	0.0000e+000	-3.4545e+003
39	0.0000e+000	-6.7592e+001	0.0000e+000	4.9218e+003	0.0000e+000	4.3293e+003
	0.0000e+000	-2.4103e+000	0.0000e+000	4.6014e+003	0.0000e+000	-4.0158e+003
40	0.0000e+000	2.4103e+000	0.0000e+000	4.6014e+003	0.0000e+000	-4.0158e+003
	0.0000e+000	6.7592e+001	0.0000e+000	4.9218e+003	0.0000e+000	4.3293e+003
41	0.0000e+000	7.8447e+000	0.0000e+000	1.5388e+003	0.0000e+000	-3.4545e+003
	0.0000e+000	4.8314e+001	0.0000e+000	1.7855e+003	0.0000e+000	5.7874e+003
42	0.0000e+000	2.2748e+001	0.0000e+000	1.0645e+003	0.0000e+000	-4.2885e+003
	0.0000e+000	2.2748e+001	0.0000e+000	1.0645e+003	0.0000e+000	4.2885e+003
43	0.0000e+000	4.8314e+001	0.0000e+000	1.7855e+003	0.0000e+000	-5.7874e+003
	0.0000e+000	7.8447e+000	0.0000e+000	1.5388e+003	0.0000e+000	3.4545e+003
44	0.0000e+000	6.7592e+001	0.0000e+000	4.9218e+003	0.0000e+000	-4.3293e+003
	0.0000e+000	2.4103e+000	0.0000e+000	4.6014e+003	0.0000e+000	4.0158e+003

#### Armatura longitudinale negli elementi

Elemento	Area (cm2)	Y (cm)	Z (cm)	Ascissa iniz. (cm)	Lunghezza (cm)
29	2.01	23.00	-28.00	0.00	590.00
	2.01	-23.00	-28.00	0.00	590.00
	2.01	-23.00	0.00	0.00	590.00
	2.01	-23.00	28.00	0.00	590.00
	2.01	23.00	28.00	0.00	590.00
	2.01	23.00	0.00	0.00	590.00
30	2.01	23.00	-28.00	0.00	590.00
	2.01	-23.00	-28.00	0.00	590.00
	2.01	-23.00	0.00	0.00	590.00
	2.01	-23.00	28.00	0.00	590.00
	2.01	23.00	28.00	0.00	590.00
	2.01	23.00	0.00	0.00	590.00
31	2.01	23.00	-28.00	0.00	590.00
	2.01	-23.00	-28.00	0.00	590.00
	2.01	-23.00	0.00	0.00	590.00
	2.01	-23.00	28.00	0.00	590.00
	2.01	23.00	28.00	0.00	590.00
	2.01	23.00	0.00	0.00	590.00
32	2.01	23.00	-28.00	0.00	590.00
	2.01	-23.00	-28.00	0.00	590.00
	2.01	-23.00	0.00	0.00	590.00
	2.01	-23.00	28.00	0.00	590.00
	2.01	23.00	28.00	0.00	590.00
	2.01	23.00	0.00	0.00	590.00
33	2.01	23.00	-28.00	0.00	590.00
	2.01	-23.00	-28.00	0.00	590.00
	2.01	-23.00	0.00	0.00	590.00
	2.01	-23.00	28.00	0.00	590.00
	2.01	23.00	28.00	0.00	590.00
	2.01	23.00	0.00	0.00	590.00
34	2.01	23.00	-28.00	0.00	590.00
	2.01	-23.00	-28.00	0.00	590.00
	2.01	-23.00	0.00	0.00	590.00
	2.01	-23.00	28.00	0.00	590.00
	2.01	23.00	28.00	0.00	590.00
	2.01	23.00	0.00	0.00	590.00
35	2.01	23.00	-28.00	0.00	267.50
	2.01	-23.00	-28.00	0.00	267.50
	2.01	-23.00	0.00	0.00	267.50
	2.01	-23.00	28.00	0.00	267.50
	2.01	23.00	28.00	0.00	267.50
	2.01	23.00	0.00	0.00	267.50
36	2.01	23.00	-28.00	0.00	510.00
	2.01	-23.00	-28.00	0.00	510.00
	2.01	-23.00	0.00	0.00	510.00
	2.01	-23.00	28.00	0.00	510.00
	2.01	23.00	28.00	0.00	510.00
	2.01	23.00	0.00	0.00	510.00
37	2.01	23.00	-28.00	0.00	590.00
	2.01	-23.00	-28.00	244.20	345.80
	2.01	-23.00	-28.00	0.00	345.80

	2.01	-23.00	0.00	244.20	345.80
	2.01	-23.00	0.00	0.00	345.80
	2.01	-23.00	28.00	244.20	345.80
	2.01	-23.00	28.00	0.00	345.80
	2.01	23.00	28.00	0.00	590.00
	2.01	23.00	0.00	0.00	590.00
38	2.01	23.00	-28.00	0.00	510.00
	2.01	-23.00	-28.00	0.00	510.00
	2.01	-23.00	0.00	0.00	510.00
	2.01	-23.00	28.00	0.00	510.00
	2.01	23.00	28.00	0.00	510.00
	2.01	23.00	0.00	0.00	510.00
39	2.01	23.00	-28.00	0.00	267.50
	2.01	-23.00	-28.00	0.00	267.50
	2.01	-23.00	0.00	0.00	267.50
	2.01	-23.00	28.00	0.00	267.50
	2.01	23.00	28.00	0.00	267.50
	2.01	23.00	0.00	0.00	267.50
40	2.01	23.00	-28.00	0.00	267.50
	2.01	-23.00	-28.00	0.00	267.50
	2.01	-23.00	0.00	0.00	267.50
	2.01	-23.00	28.00	0.00	267.50
	2.01	23.00	28.00	0.00	267.50
	2.01	23.00	0.00	0.00	267.50
41	2.01	23.00	-28.00	0.00	510.00
	2.01	-23.00	-28.00	0.00	510.00
	2.01	-23.00	0.00	0.00	510.00
	2.01	-23.00	28.00	0.00	510.00
	2.01	23.00	28.00	0.00	510.00
	2.01	23.00	0.00	0.00	510.00
42	2.01	23.00	-28.00	0.00	590.00
	2.01	-23.00	-28.00	244.20	345.80
	2.01	-23.00	-28.00	0.00	345.80
	2.01	-23.00	0.00	244.20	345.80
	2.01	-23.00	0.00	0.00	345.80
	2.01	-23.00	28.00	244.20	345.80
	2.01	-23.00	28.00	0.00	345.80
	2.01	23.00	28.00	0.00	590.00
	2.01	23.00	0.00	0.00	590.00
43	2.01	23.00	-28.00	0.00	510.00
	2.01	-23.00	-28.00	0.00	510.00
	2.01	-23.00	0.00	0.00	510.00
	2.01	-23.00	28.00	0.00	510.00
	2.01	23.00	28.00	0.00	510.00
	2.01	23.00	0.00	0.00	510.00
44	2.01	23.00	-28.00	0.00	267.50
	2.01	-23.00	-28.00	0.00	267.50
	2.01	-23.00	0.00	0.00	267.50
	2.01	-23.00	28.00	0.00	267.50
	2.01	23.00	28.00	0.00	267.50
	2.01	23.00	0.00	0.00	267.50

#### Armatura trasversale negli elementi

Elemento	Ascissa iniz. (cm)	Lunghezza tratto (cm)	Area orizz. (cm2)	Area vert. (cm2)	Passo (cm)
29	25.00	540.00	1.01	1.01	11.00
30	12.50	565.00	1.01	1.01	11.00
31	12.50	565.00	1.01	1.01	11.00
32	12.50	565.00	1.01	1.01	11.00
33	12.50	565.00	1.01	1.01	11.00
34	25.00	540.00	1.01	1.01	11.00
35	25.00	230.00	1.01	1.01	11.00
36	25.00	460.00	1.01	1.01	11.00
37	25.00	540.00	1.01	1.01	11.00
38	25.00	460.00	1.01	1.01	11.00
39	12.50	230.00	1.01	1.01	11.00
40	25.00	230.00	1.01	1.01	11.00
41	25.00	460.00	1.01	1.01	11.00
42	25.00	540.00	1.01	1.01	11.00
43	25.00	460.00	1.01	1.01	11.00
44	12.50	230.00	1.01	1.01	11.00

#### Verifica momento ultimo

Elem	P/T	Qta	Ascissa (cm)	Nx ( kg)	Mz ( kgxcm)	My ( kgxcm)	Fattore sicurezza	Comb.
29	T		27.00	0.00	587777.24	0.00	1.89	8
			295.00	0.00	616193.16	0.00	1.82	17

		563.00	0.00	587777.24	0.00	1.89	3
30	T	14.50	0.00	-350939.12	0.00	3.18	3
		295.00	0.00	726689.62	0.00	1.54	17
		575.50	0.00	-350939.12	0.00	3.18	8
31	T	14.50	0.00	247352.79	0.00	4.49	6
		295.00	0.00	773078.00	0.00	1.44	17
		575.50	0.00	247352.79	0.00	4.49	1
32	T	14.50	0.00	247352.79	0.00	4.49	4
		295.00	0.00	773078.00	0.00	1.44	17
		575.50	0.00	247352.79	0.00	4.49	7
33	T	14.50	0.00	-350939.12	0.00	3.18	5
		295.00	0.00	726689.62	0.00	1.54	17
		575.50	0.00	-350939.12	0.00	3.18	2
34	T	27.00	0.00	587777.24	0.00	1.89	2
		295.00	0.00	616193.16	0.00	1.82	17
		563.00	0.00	587777.24	0.00	1.89	5
35	T	27.00	0.00	-273876.75	0.00	4.09	9
		133.75	0.00	144997.63	0.00	7.72	6
		253.00	0.00	164203.01	0.00	6.79	9
36	T	27.00	0.00	-530976.81	0.00	2.11	17
		255.00	0.00	365818.44	0.00	3.06	17
		483.00	0.00	-363703.65	0.00	3.08	16
37	T	27.00	0.00	-484644.26	0.00	2.30	11
		295.00	0.00	493501.46	0.00	2.27	17
		563.00	0.00	-484644.26	0.00	2.30	16
38	T	27.00	0.00	-363703.65	0.00	3.08	11
		255.00	0.00	365818.44	0.00	3.06	17
		483.00	0.00	-530976.81	0.00	2.11	17
39	T	14.50	0.00	164203.01	0.00	6.79	14
		133.75	0.00	144997.63	0.00	7.72	4
		240.50	0.00	-273876.75	0.00	4.09	14
40	T	27.00	0.00	-273876.75	0.00	4.09	15
		133.75	0.00	144997.63	0.00	7.72	1
		253.00	0.00	164203.01	0.00	6.79	15
41	T	27.00	0.00	-530976.81	0.00	2.11	17
		255.00	0.00	365818.44	0.00	3.06	17
		483.00	0.00	-363703.65	0.00	3.08	10
42	T	27.00	0.00	-484644.26	0.00	2.30	13
		295.00	0.00	493501.46	0.00	2.27	17
		563.00	0.00	-484644.26	0.00	2.30	10
43	T	27.00	0.00	-363703.65	0.00	3.08	13
		255.00	0.00	365818.44	0.00	3.06	17
		483.00	0.00	-530976.81	0.00	2.11	17
44	T	14.50	0.00	164203.01	0.00	6.79	12
		133.75	0.00	144997.63	0.00	7.72	7
		240.50	0.00	-273876.75	0.00	4.09	12

**Minimo fattore di sicurezza:** 1.442627 >= 1.00

Per ogni elemento **Elem** di tipo **P**(ilastro) o **T**(rave) a quota (opzionale) di riferimento **Qta** viene calcolato, all'ascissa **Ascissa**, il momento ultimo **Mr** nella direzione di sollecitazione risultante e viene esposto il **Fattore sicurezza**, cioè **Mr/Me**, relativo alla combinazione **COMB** che ha generato il minore fattore di sicurezza. Vengono espresse le sollecitazioni **Md** nelle componenti assiale **Nx** e flessionale **Mz** e **My** di tale combinazione (vedi Combinazioni Progetto). Se il fattore di sicurezza è maggiore di 10.0, viene riportata la dicitura **>10.0** per evitare la stampa di numeri inutilmente grandi.

#### Verifica taglio ultimo

Elem	P/T	Qta	Ascissa (cm)	Ty ( kg)	Tz ( kg)	Vr ( kg)	Fattore sicurezza	Comb.
29	T		27.00	4388.47	0.00	39384.48	9.35	9
			295.00	2389.64	0.00	39384.48	> 10.00	1
			563.00	-4388.47	0.00	39384.48	9.35	15
30	T		14.50	5294.13	0.00	39384.48	7.73	17
			295.00	1279.61	0.00	39384.48	> 10.00	3
			575.50	-5294.13	0.00	39384.48	7.73	17
31	T		14.50	5528.80	0.00	39384.48	7.40	17
			295.00	-849.72	0.00	39384.48	> 10.00	6
			575.50	-5528.80	0.00	39384.48	7.40	17
32	T		14.50	5528.80	0.00	39384.48	7.40	17
			295.00	-849.72	0.00	39384.48	> 10.00	2
			575.50	-5528.80	0.00	39384.48	7.40	17
33	T		14.50	5294.13	0.00	39384.48	7.73	17
			295.00	1279.61	0.00	39384.48	> 10.00	5

		575.50	-5294.13	0.00	39384.48	7.73	17
34	T	27.00	4388.47	0.00	39384.48	9.35	14
		295.00	2389.64	0.00	39384.48	> 10.00	7
		563.00	-4388.47	0.00	39384.48	9.35	12
35	T	27.00	5009.14	0.00	39384.48	8.19	17
		133.75	2133.22	0.00	39384.48	> 10.00	9
		253.00	-3832.21	0.00	39384.48	> 10.00	8
36	T	27.00	7429.83	0.00	39384.48	5.52	17
		255.00	1278.28	0.00	39384.48	> 10.00	11
		483.00	-5323.31	0.00	39384.48	7.71	17
37	T	27.00	7303.22	0.00	39384.48	5.62	17
		295.00	601.47	0.00	39384.48	> 10.00	11
		563.00	-7303.22	0.00	39384.48	5.62	17
38	T	27.00	5323.31	0.00	39384.48	7.71	17
		255.00	-1278.28	0.00	39384.48	> 10.00	16
		483.00	-7429.83	0.00	39384.48	5.52	17
39	T	14.50	3832.21	0.00	39384.48	> 10.00	2
		133.75	-2133.22	0.00	39384.48	> 10.00	14
		240.50	-5009.14	0.00	39384.48	8.19	17
40	T	27.00	5009.14	0.00	39384.48	8.19	17
		133.75	2133.22	0.00	39384.48	> 10.00	15
		253.00	-3832.21	0.00	39384.48	> 10.00	3
41	T	27.00	7429.83	0.00	39384.48	5.52	17
		255.00	1278.28	0.00	39384.48	> 10.00	13
		483.00	-5323.31	0.00	39384.48	7.71	17
42	T	27.00	7303.22	0.00	39384.48	5.62	17
		295.00	601.47	0.00	39384.48	> 10.00	15
		563.00	-7303.22	0.00	39384.48	5.62	17
43	T	27.00	5323.31	0.00	39384.48	7.71	17
		255.00	-1278.28	0.00	39384.48	> 10.00	10
		483.00	-7429.83	0.00	39384.48	5.52	17
44	T	14.50	3832.21	0.00	39384.48	> 10.00	5
		133.75	-2133.22	0.00	39384.48	> 10.00	12
		240.50	-5009.14	0.00	39384.48	8.19	17

**Minimo fattore di sicurezza:** 5.520717 >= 1.00

Per ogni elemento **Elem** di tipo **P**(ilastro) o **T**(rave) a quota (opzionale) di riferimento **Qta** viene calcolato, all'ascissa **Ascissa**, il taglio ultimo **Tr** nella direzione di sollecitazione risultante e viene esposto il **Fattore sicurezza**, cioè  $Tr/Te$ , relativo alla combinazione **Comb** che ha generato il minore fattore di sicurezza. Vengono esposte le sollecitazioni **Td** nelle componenti assiale **Ty** e **Tz** di tale combinazione (vedi Combinazioni Progetto). Se il fattore di sicurezza è maggiore di 10.0, viene riportata la dicitura >10.0 per evitare la stampa di numeri inutilmente grandi.

#### Verifica a torsione

Elem	P/T	Qta	Ascissa (cm)	Comb.	Td ( kgxcm)	Tr ( kgxcm)	Vd ( kg)	Vr ( kg)	Fs
29	T		27.00	1	61505.18	486273.62	4333.71	39384.48	4.23
			295.00	1	61505.18	486273.62	4333.71	39384.48	4.23
			563.00	1	61505.18	486273.62	4333.71	39384.48	4.23
30	T		14.50	7	29482.66	486273.62	4140.79	39384.48	6.03
			295.00	7	29482.66	486273.62	4140.79	39384.48	6.03
			575.50	4	-29482.66	486273.62	4140.79	39384.48	6.03
31	T		14.50	17	-923.02	486273.62	5528.80	39384.48	7.03
			295.00	17	-923.02	486273.62	5528.80	39384.48	7.03
			575.50	17	-923.02	486273.62	5528.80	39384.48	7.03
32	T		14.50	17	923.02	486273.62	5528.80	39384.48	7.03
			295.00	17	923.02	486273.62	5528.80	39384.48	7.03
			575.50	17	-923.02	486273.62	5528.80	39384.48	7.03
33	T		14.50	1	-29482.66	486273.62	4140.79	39384.48	6.03
			295.00	1	-29482.66	486273.62	4140.79	39384.48	6.03
			575.50	1	-29482.66	486273.62	4140.79	39384.48	6.03
34	T		27.00	7	-61505.18	486273.62	4333.71	39384.48	4.23
			295.00	7	-61505.18	486273.62	4333.71	39384.48	4.23
			563.00	4	61505.18	486273.62	4333.71	39384.48	4.23
35	T		27.00	17	-60664.32	486273.62	5009.14	39384.48	3.97
			133.75	17	-60664.32	486273.62	5009.14	39384.48	3.97
			253.00	17	-60664.32	486273.62	5009.14	39384.48	3.97
36	T		27.00	17	-29513.69	486273.62	7429.83	39384.48	4.01
			255.00	17	-29513.69	486273.62	7429.83	39384.48	4.01
			483.00	17	-29513.69	486273.62	7429.83	39384.48	4.01
37	T		27.00	17	-17884.14	486273.62	7303.22	39384.48	4.50
			295.00	17	-17884.14	486273.62	7303.22	39384.48	4.50

		563.00	17	17884.14	486273.62	7303.22	39384.48	4.50
38	T	27.00	2	-38761.80	486273.62	4339.92	39384.48	5.27
		255.00	2	-38761.80	486273.62	4339.92	39384.48	5.27
		483.00	17	29513.69	486273.62	7429.83	39384.48	4.01
39	T	14.50	5	205807.25	1511293.95	256.61	39384.48	7.34
		133.75	5	205807.25	1511293.95	256.61	39384.48	7.34
		240.50	17	60664.32	486273.62	5009.14	39384.48	3.97
40	T	27.00	17	60664.32	486273.62	5009.14	39384.48	3.97
		133.75	17	60664.32	486273.62	5009.14	39384.48	3.97
		253.00	17	60664.32	486273.62	5009.14	39384.48	3.97
41	T	27.00	17	29513.69	486273.62	7429.83	39384.48	4.01
		255.00	17	29513.69	486273.62	7429.83	39384.48	4.01
		483.00	17	29513.69	486273.62	7429.83	39384.48	4.01
42	T	27.00	17	17884.14	486273.62	7303.22	39384.48	4.50
		295.00	17	17884.14	486273.62	7303.22	39384.48	4.50
		563.00	17	17884.14	486273.62	7303.22	39384.48	4.50
43	T	27.00	5	38761.80	486273.62	4339.92	39384.48	5.27
		255.00	5	38761.80	486273.62	4339.92	39384.48	5.27
		483.00	17	-29513.69	486273.62	7429.83	39384.48	4.01
44	T	14.50	2	-205807.25	1511293.95	256.61	39384.48	7.34
		133.75	2	-205807.25	1511293.95	256.61	39384.48	7.34
		240.50	17	-60664.32	486273.62	5009.14	39384.48	3.97

**Minimo fattore di sicurezza:** 3.969214 >= 1.00

Per ogni elemento **Elem** di tipo **P**(ilastro) o **T**(rave) a quota (opzionale) di riferimento **Qta** viene calcolato, all'ascissa **Ascissa**, per ogni combinazione di carico il fattore di sicurezza combinato taglio-torsione **Fs** e vengono esposti dati e risultati relativi alla combinazione **Comb**, per la quale si è ottenuto il fattore di sicurezza minimo. Vengono esposti i momenti torcenti agenti **Td** e resistenti **Tr** ed i valori di taglio combinato agente **Vd** e resistente **Vr**. Se il fattore di sicurezza è maggiore di 10.0, viene riportata la dicitura **>10.0** per evitare la stampa di numeri inutilmente grandi. In caso sia segnalato **Verifica non effettuata** (che non indica una verifica non soddisfatta ma una impossibilità a effettuarla) il valore finale non tiene conto di tale verifica.

#### Verifica stato limite di esercizio - fessurazione

Elemento	Ascissa (cm)	Ampiezza Fess. (mm)	Dist.fessure (mm)	Momenti agenti		Momenti prima fessurazione		Comb.	Tipo
				Mz ( kgxcm)	My ( kgxcm)	Mz ( kgxcm)	My ( kgxcm)		
29	27.00	5.83e-003	198.05	24722.00	0.00	845963.11	972836.28	1	qprm
	27.00	5.87e-003	198.05	24913.60	0.00	845963.11	972836.28	2	freq
	295.00	8.67e-002	198.05	367618.74	0.00	845963.11	972836.28	1	qprm
	295.00	8.91e-002	198.05	377582.60	0.00	845963.11	972836.28	2	freq
	563.00	5.83e-003	198.05	24722.00	0.00	845963.11	972836.28	1	qprm
	563.00	5.87e-003	198.05	24913.60	0.00	845963.11	972836.28	2	freq
30	14.50	1.96e-003	198.05	-8316.66	0.00	845963.11	972836.28	1	qprm
	14.50	2.08e-003	198.05	-8830.10	0.00	845963.11	972836.28	2	freq
	295.00	0.10	198.05	435264.24	0.00	845963.11	972836.28	1	qprm
	295.00	0.11	198.05	446617.05	0.00	845963.11	972836.28	2	freq
	575.50	1.96e-003	198.05	-8316.66	0.00	845963.11	972836.28	1	qprm
	575.50	2.08e-003	198.05	-8830.10	0.00	845963.11	972836.28	2	freq
31	14.50	6.84e-004	198.05	2903.44	0.00	845963.11	972836.28	1	qprm
	14.50	6.84e-004	198.05	2903.44	0.00	845963.11	972836.28	3	freq
	295.00	0.11	198.05	455479.10	0.00	845963.11	972836.28	1	qprm
	295.00	0.11	198.05	469303.62	0.00	845963.11	972836.28	2	freq
	575.50	6.84e-004	198.05	2903.44	0.00	845963.11	972836.28	1	qprm
	575.50	6.84e-004	198.05	2903.44	0.00	845963.11	972836.28	3	freq
32	14.50	6.84e-004	198.05	2903.44	0.00	845963.11	972836.28	1	qprm
	14.50	6.84e-004	198.05	2903.44	0.00	845963.11	972836.28	3	freq
	295.00	0.11	198.05	455479.10	0.00	845963.11	972836.28	1	qprm
	295.00	0.11	198.05	469303.62	0.00	845963.11	972836.28	2	freq
	575.50	6.84e-004	198.05	2903.44	0.00	845963.11	972836.28	1	qprm
	575.50	6.84e-004	198.05	2903.44	0.00	845963.11	972836.28	3	freq
33	14.50	1.96e-003	198.05	-8316.66	0.00	845963.11	972836.28	1	qprm
	14.50	2.08e-003	198.05	-8830.10	0.00	845963.11	972836.28	2	freq
	295.00	0.10	198.05	435264.24	0.00	845963.11	972836.28	1	qprm
	295.00	0.11	198.05	446617.05	0.00	845963.11	972836.28	2	freq
	575.50	1.96e-003	198.05	-8316.66	0.00	845963.11	972836.28	1	qprm
	575.50	2.08e-003	198.05	-8830.10	0.00	845963.11	972836.28	2	freq
34	27.00	5.83e-003	198.05	24722.00	0.00	845963.11	972836.28	1	qprm
	27.00	5.87e-003	198.05	24913.60	0.00	845963.11	972836.28	2	freq
	295.00	8.67e-002	198.05	367618.74	0.00	845963.11	972836.28	1	qprm
	295.00	8.91e-002	198.05	377582.60	0.00	845963.11	972836.28	2	freq
	563.00	5.83e-003	198.05	24722.00	0.00	845963.11	972836.28	1	qprm
	563.00	5.87e-003	198.05	24913.60	0.00	845963.11	972836.28	2	freq
35	27.00	4.80e-002	198.05	-129125.02	0.00	845963.11	972836.28	1	qprm
	27.00	5.37e-002	198.05	-136191.93	0.00	845963.11	972836.28	2	freq
	133.75	1.59e-002	198.05	67494.08	0.00	845963.11	972836.28	1	qprm
	133.75	1.61e-002	198.05	68467.80	0.00	845963.11	972836.28	2	freq
	253.00	4.43e-003	198.05	18776.54	0.00	845963.11	972836.28	1	qprm

	253.00	4.70e-003	198.05	19945.83	0.00	845963.11	972836.28	2	freq
36	27.00	0.17	198.05	-302157.39	0.00	845963.11	972836.28	1	qprm
	27.00	0.17	198.05	-314117.50	0.00	845963.11	972836.28	2	freq
	255.00	4.94e-002	198.05	209643.07	0.00	845963.11	972836.28	1	qprm
	255.00	5.13e-002	198.05	217543.66	0.00	845963.11	972836.28	2	freq
	483.00	2.86e-002	198.05	-106300.27	0.00	845963.11	972836.28	1	qprm
	483.00	3.29e-002	198.05	-111191.61	0.00	845963.11	972836.28	2	freq
37	27.00	0.15	198.05	-276529.77	0.00	845963.11	972836.28	1	qprm
	27.00	0.16	198.05	-287350.56	0.00	845963.11	972836.28	2	freq
	295.00	6.62e-002	198.05	280739.17	0.00	845963.11	972836.28	1	qprm
	295.00	6.89e-002	198.05	291876.51	0.00	845963.11	972836.28	2	freq
	563.00	0.15	198.05	-276529.77	0.00	845963.11	972836.28	1	qprm
	563.00	0.16	198.05	-287350.56	0.00	845963.11	972836.28	2	freq
38	27.00	2.86e-002	198.05	-106300.27	0.00	845963.11	972836.28	1	qprm
	27.00	3.29e-002	198.05	-111191.61	0.00	845963.11	972836.28	2	freq
	255.00	4.94e-002	198.05	209643.07	0.00	845963.11	972836.28	1	qprm
	255.00	5.13e-002	198.05	217543.66	0.00	845963.11	972836.28	2	freq
	483.00	0.17	198.05	-302157.39	0.00	845963.11	972836.28	1	qprm
	483.00	0.17	198.05	-314117.50	0.00	845963.11	972836.28	2	freq
39	14.50	4.43e-003	198.05	18776.54	0.00	845963.11	972836.28	1	qprm
	14.50	4.70e-003	198.05	19945.83	0.00	845963.11	972836.28	2	freq
	133.75	1.59e-002	198.05	67494.08	0.00	845963.11	972836.28	1	qprm
	133.75	1.61e-002	198.05	68467.80	0.00	845963.11	972836.28	2	freq
	240.50	4.80e-002	198.05	-129125.02	0.00	845963.11	972836.28	1	qprm
	240.50	5.37e-002	198.05	-136191.93	0.00	845963.11	972836.28	2	freq
40	27.00	4.80e-002	198.05	-129125.02	0.00	845963.11	972836.28	1	qprm
	27.00	5.37e-002	198.05	-136191.93	0.00	845963.11	972836.28	2	freq
	133.75	1.59e-002	198.05	67494.08	0.00	845963.11	972836.28	1	qprm
	133.75	1.61e-002	198.05	68467.80	0.00	845963.11	972836.28	2	freq
	253.00	4.43e-003	198.05	18776.54	0.00	845963.11	972836.28	1	qprm
	253.00	4.70e-003	198.05	19945.83	0.00	845963.11	972836.28	2	freq
41	27.00	0.17	198.05	-302157.39	0.00	845963.11	972836.28	1	qprm
	27.00	0.17	198.05	-314117.50	0.00	845963.11	972836.28	2	freq
	255.00	4.94e-002	198.05	209643.07	0.00	845963.11	972836.28	1	qprm
	255.00	5.13e-002	198.05	217543.66	0.00	845963.11	972836.28	2	freq
	483.00	2.86e-002	198.05	-106300.27	0.00	845963.11	972836.28	1	qprm
	483.00	3.29e-002	198.05	-111191.61	0.00	845963.11	972836.28	2	freq
42	27.00	0.15	198.05	-276529.77	0.00	845963.11	972836.28	1	qprm
	27.00	0.16	198.05	-287350.56	0.00	845963.11	972836.28	2	freq
	295.00	6.62e-002	198.05	280739.17	0.00	845963.11	972836.28	1	qprm
	295.00	6.89e-002	198.05	291876.51	0.00	845963.11	972836.28	2	freq
	563.00	0.15	198.05	-276529.77	0.00	845963.11	972836.28	1	qprm
	563.00	0.16	198.05	-287350.56	0.00	845963.11	972836.28	2	freq
43	27.00	2.86e-002	198.05	-106300.27	0.00	845963.11	972836.28	1	qprm
	27.00	3.29e-002	198.05	-111191.61	0.00	845963.11	972836.28	2	freq
	255.00	4.94e-002	198.05	209643.07	0.00	845963.11	972836.28	1	qprm
	255.00	5.13e-002	198.05	217543.66	0.00	845963.11	972836.28	2	freq
	483.00	0.17	198.05	-302157.39	0.00	845963.11	972836.28	1	qprm
	483.00	0.17	198.05	-314117.50	0.00	845963.11	972836.28	2	freq
44	14.50	4.43e-003	198.05	18776.54	0.00	845963.11	972836.28	1	qprm
	14.50	4.70e-003	198.05	19945.83	0.00	845963.11	972836.28	2	freq
	133.75	1.59e-002	198.05	67494.08	0.00	845963.11	972836.28	1	qprm
	133.75	1.61e-002	198.05	68467.80	0.00	845963.11	972836.28	2	freq
	240.50	4.80e-002	198.05	-129125.02	0.00	845963.11	972836.28	1	qprm
	240.50	5.37e-002	198.05	-136191.93	0.00	845963.11	972836.28	2	freq

#### Verifica stato limite di esercizio - tensioni massime nel calcestruzzo

Elemento	Ascissa (cm)	Tensione ( kg/cm2)	Combinazione rara			Combinazione quasi permanente			
			Mz ( kgxcm)	My ( kgxcm)	Comb.	Tensione ( kg/cm2)	Mz ( kgxcm)	My ( kgxcm)	Comb.
29	27.00	-1.58	25680.00	0.00	4	-1.52	24722.00	0.00	1
	295.00	-25.71	417438.01	0.00	4	-22.64	367618.74	0.00	1
	563.00	-1.58	25680.00	0.00	4	-1.52	24722.00	0.00	1
30	14.50	-0.67	-10883.87	0.00	4	-0.51	-8316.66	0.00	1
	295.00	-30.30	492028.29	0.00	4	-26.81	435264.24	0.00	1
	575.50	-0.67	-10883.87	0.00	4	-0.51	-8316.66	0.00	1
31	14.50	-0.18	2903.44	0.00	5	-0.18	2903.44	0.00	1
	295.00	-32.31	524601.68	0.00	4	-28.05	455479.10	0.00	1
	575.50	-0.18	2903.44	0.00	5	-0.18	2903.44	0.00	1
32	14.50	-0.18	2903.44	0.00	5	-0.18	2903.44	0.00	1
	295.00	-32.31	524601.68	0.00	4	-28.05	455479.10	0.00	1
	575.50	-0.18	2903.44	0.00	5	-0.18	2903.44	0.00	1
33	14.50	-0.67	-10883.87	0.00	4	-0.51	-8316.66	0.00	1



	295.00	-30.30	492028.29	0.00	4	-26.81	435264.24	0.00	1
	575.50	-0.67	-10883.87	0.00	4	-0.51	-8316.66	0.00	1
34	27.00	-1.58	25680.00	0.00	4	-1.52	24722.00	0.00	1
	295.00	-25.71	417438.01	0.00	4	-22.64	367618.74	0.00	1
	563.00	-1.58	25680.00	0.00	4	-1.52	24722.00	0.00	1
35	27.00	-10.13	-164459.56	0.00	4	-7.95	-129125.02	0.00	1
	133.75	-4.46	72362.70	0.00	4	-4.16	67494.08	0.00	1
	253.00	-1.52	24623.00	0.00	4	-1.16	18776.54	0.00	1
36	27.00	-22.29	-361957.95	0.00	4	-18.61	-302157.39	0.00	1
	255.00	-15.34	249146.02	0.00	4	-12.91	209643.07	0.00	1
	483.00	-8.05	-130756.98	0.00	4	-6.55	-106300.27	0.00	1
37	27.00	-20.36	-330633.74	0.00	4	-17.03	-276529.77	0.00	1
	295.00	-20.72	336425.87	0.00	4	-17.29	280739.17	0.00	1
	563.00	-20.36	-330633.74	0.00	4	-17.03	-276529.77	0.00	1
38	27.00	-8.05	-130756.98	0.00	4	-6.55	-106300.27	0.00	1
	255.00	-15.34	249146.02	0.00	4	-12.91	209643.07	0.00	1
	483.00	-22.29	-361957.95	0.00	4	-18.61	-302157.39	0.00	1
39	14.50	-1.52	24623.00	0.00	4	-1.16	18776.54	0.00	1
	133.75	-4.46	72362.70	0.00	4	-4.16	67494.08	0.00	1
	240.50	-10.13	-164459.56	0.00	4	-7.95	-129125.02	0.00	1
40	27.00	-10.13	-164459.56	0.00	4	-7.95	-129125.02	0.00	1
	133.75	-4.46	72362.70	0.00	4	-4.16	67494.08	0.00	1
	253.00	-1.52	24623.00	0.00	4	-1.16	18776.54	0.00	1
41	27.00	-22.29	-361957.95	0.00	4	-18.61	-302157.39	0.00	1
	255.00	-15.34	249146.02	0.00	4	-12.91	209643.07	0.00	1
	483.00	-8.05	-130756.98	0.00	4	-6.55	-106300.27	0.00	1
42	27.00	-20.36	-330633.74	0.00	4	-17.03	-276529.77	0.00	1
	295.00	-20.72	336425.87	0.00	4	-17.29	280739.17	0.00	1
	563.00	-20.36	-330633.74	0.00	4	-17.03	-276529.77	0.00	1
43	27.00	-8.05	-130756.98	0.00	4	-6.55	-106300.27	0.00	1
	255.00	-15.34	249146.02	0.00	4	-12.91	209643.07	0.00	1
	483.00	-22.29	-361957.95	0.00	4	-18.61	-302157.39	0.00	1
44	14.50	-1.52	24623.00	0.00	4	-1.16	18776.54	0.00	1
	133.75	-4.46	72362.70	0.00	4	-4.16	67494.08	0.00	1
	240.50	-10.13	-164459.56	0.00	4	-7.95	-129125.02	0.00	1

#### Verifica stato limite di esercizio - tensioni massime nell'acciaio

Elemento	Ascissa (cm)	Tensione ( kg/cm2)	Combinazione rara			Comb.	Combinazione quasi permanente			
			Mz ( kgxcm)	My ( kgxcm)			Tensione ( kg/cm2)	Mz ( kgxcm)	My ( kgxcm)	Comb.
29	27.00	94.45	25680.00	0.00		4	90.93	24722.00	0.00	1
	295.00	1535.77	417438.01	0.00		4	1352.48	367618.74	0.00	1
	563.00	94.45	25680.00	0.00		4	90.93	24722.00	0.00	1
30	14.50	40.03	-10883.87	0.00		4	30.59	-8316.66	0.00	1
	295.00	1810.19	492028.29	0.00		4	1601.35	435264.24	0.00	1
	575.50	40.03	-10883.87	0.00		4	30.59	-8316.66	0.00	1
31	14.50	10.68	2903.44	0.00		5	10.68	2903.44	0.00	1
	295.00	1930.03	524601.68	0.00		4	1675.72	455479.10	0.00	1
	575.50	10.68	2903.44	0.00		5	10.68	2903.44	0.00	1
32	14.50	10.68	2903.44	0.00		5	10.68	2903.44	0.00	1
	295.00	1930.03	524601.68	0.00		4	1675.72	455479.10	0.00	1
	575.50	10.68	2903.44	0.00		5	10.68	2903.44	0.00	1
33	14.50	40.03	-10883.87	0.00		4	30.59	-8316.66	0.00	1
	295.00	1810.19	492028.29	0.00		4	1601.35	435264.24	0.00	1
	575.50	40.03	-10883.87	0.00		4	30.59	-8316.66	0.00	1
34	27.00	94.45	25680.00	0.00		4	90.93	24722.00	0.00	1
	295.00	1535.77	417438.01	0.00		4	1352.48	367618.74	0.00	1
	563.00	94.45	25680.00	0.00		4	90.93	24722.00	0.00	1
35	27.00	605.05	-164459.56	0.00		4	475.05	-129125.02	0.00	1
	133.75	266.22	72362.70	0.00		4	248.31	67494.08	0.00	1
	253.00	90.56	24623.00	0.00		4	69.06	18776.54	0.00	1
36	27.00	1331.65	-361957.95	0.00		4	1111.65	-302157.39	0.00	1
	255.00	916.62	249146.02	0.00		4	771.28	209643.07	0.00	1
	483.00	481.06	-130756.98	0.00		4	391.08	-106300.27	0.00	1
37	27.00	1216.41	-330633.74	0.00		4	1017.36	-276529.77	0.00	1
	295.00	1237.72	336425.87	0.00		4	1032.85	280739.17	0.00	1
	563.00	1216.41	-330633.74	0.00		4	1017.36	-276529.77	0.00	1
38	27.00	481.06	-130756.98	0.00		4	391.08	-106300.27	0.00	1

	255.00	916.62	249146.02	0.00	4	771.28	209643.07	0.00	1
	483.00	1331.65	-361957.95	0.00	4	1111.65	-302157.39	0.00	1
39	14.50	90.56	24623.00	0.00	4	69.06	18776.54	0.00	1
	133.75	266.22	72362.70	0.00	4	248.31	67494.08	0.00	1
	240.50	605.05	-164459.56	0.00	4	475.05	-129125.02	0.00	1
40	27.00	605.05	-164459.56	0.00	4	475.05	-129125.02	0.00	1
	133.75	266.22	72362.70	0.00	4	248.31	67494.08	0.00	1
	253.00	90.56	24623.00	0.00	4	69.06	18776.54	0.00	1
41	27.00	1331.65	-361957.95	0.00	4	1111.65	-302157.39	0.00	1
	255.00	916.62	249146.02	0.00	4	771.28	209643.07	0.00	1
	483.00	481.06	-130756.98	0.00	4	391.08	-106300.27	0.00	1
42	27.00	1216.41	-330633.74	0.00	4	1017.36	-276529.77	0.00	1
	295.00	1237.72	336425.87	0.00	4	1032.85	280739.17	0.00	1
	563.00	1216.41	-330633.74	0.00	4	1017.36	-276529.77	0.00	1
43	27.00	481.06	-130756.98	0.00	4	391.08	-106300.27	0.00	1
	255.00	916.62	249146.02	0.00	4	771.28	209643.07	0.00	1
	483.00	1331.65	-361957.95	0.00	4	1111.65	-302157.39	0.00	1
44	14.50	90.56	24623.00	0.00	4	69.06	18776.54	0.00	1
	133.75	266.22	72362.70	0.00	4	248.31	67494.08	0.00	1
	240.50	605.05	-164459.56	0.00	4	475.05	-129125.02	0.00	1

### Verifica geotecnica travi fondazione

Elemento	Coeff. S.Fondo ( kg/cm3)	Deflessione max (cm)	Pressione max ( kg/cm2)	Portanza unitaria ( kg/cm2)	Fattore sicurezza	Comb.
29	8.000000	-0.136157	1.089252	1.198839	1.100607	17
30	8.000000	-0.125202	1.001619	1.423753	1.421451	17
31	8.000000	-0.138627	1.109019	1.493357	1.346557	17
32	8.000000	-0.140025	1.120202	1.493357	1.333114	17
33	8.000000	-0.130066	1.040525	1.423753	1.368303	17
34	8.000000	-0.141420	1.131362	1.198839	1.059642	17
35	8.000000	-0.127707	1.021658	1.532188	1.499707	17
36	8.000000	-0.125353	1.002821	1.526697	1.522402	17
37	8.000000	-0.125152	1.001217	1.543051	1.541175	17
38	8.000000	-0.125353	1.002821	1.526697	1.522402	17
39	8.000000	-0.127707	1.021658	1.532188	1.499707	17
40	8.000000	-0.149869	1.198956	1.532188	1.277935	17
41	8.000000	-0.153500	1.228004	1.526697	1.243235	17
42	8.000000	-0.153500	1.228004	1.543051	1.256552	17
43	8.000000	-0.153500	1.228004	1.526697	1.243235	17
44	8.000000	-0.149869	1.198956	1.532188	1.277935	17