AGENZIA DEL DEMANIO

AGENZIA DEL DEMANIO

Direzione Regionale Calabria

PROGETTO PRELIMINARE	PROGETTO DEFINITIVO	PROGETTO ESECUTIVO
☐	☐	■

OGGETTO: Progettazione definitiva ed esecutiva, coordinamento della sicurezza in fase di progettazione e di esecuzione, direzione lavori, contabilità dei lavori ed accatastamento, finalizzati al completamento ed all'ampliamento del polifunzionale "Manganelli" per la nuova sede del XII Reparto Mobile della Polizia di Stato, in Reggio Calabria, Località Santa Caterina.

UBICAZIONE: Località Santa Caterina - Reggio Calabria

COMMITTENTE: Agenzia del Demanio - Direzione Regionale Calabria

CODICE CIG: 7121966045	**CODICE CUP: G36D17000050001**

PROGETTO STRUTTURALE

REV.	DATA	MODIFICA	DISEGNATORE / COMPILATORE
00	26/11/2018	Prima Emissione	Ing. Mariano Salvatore
			VERIFICATO DA: Ing. Carlo Carletti
			APPROVATO DA: Arch. Valentino Tropeano

CODICE D'IDENTIFICAZIONE	ELABORATO :
05/17-**PS.TC15/**00	Tettoia Riservetta esplosivi: ▪ Tabulati di calcolo
OPEN BIM™	

IL RESPONSABILE DEL PROCEDIMENTO	IL COORDINATORE DELLA SICUREZZA IN FASE DI PROGETTAZIONE
Ing. Salvatore CONCETTINO	Arch. Valentino TROPEANO

PROGETTISTA RESPONSABILE COORDINATORE
Arch. Valentino TROPEANO

RESPONSABILI

RESPONSABILE PROGETTAZIONE ARCHITETTONICA
Arch. Gianfranco PICARIELLO
RESPONSABILE PROGETTAZIONE STRUTTURALE
Ing. Carlo CARLETTI
RESPONSABILE INDAGINI GEOGNOSTICHE
Geol. Carmine MAZZAROTTI
RESPONSABILE PROGETTAZIONE IMPIANTI MECCANICI
Ing. Bruno MATTIA
RESPONSABILE PROGETTAZIONE IMPIANTI ELETTRICI
Ing. Mauro GUERRIERO
RESPONSABILE PROGETTAZIONE SICUREZZA
Arch, Patrizia GAMMA

GRUPPO DI LAVORO

Ing. Antonio GRAZIANO
Ing. Lella Liana IMBRIANI
Ing. Mariano SALVATORE
Ing. Domenico DE MATTIA
Ing. Rosa LO PRIORE
Arch. Ivan GUERRIERO
Arch. Stanislao SACCARDO
Geom. Gennarino IANDIORIO
Geom. Franco IMBIMBO
Per.Ind. Antonio FESTA

CONSULENTI SCIENTIFICI

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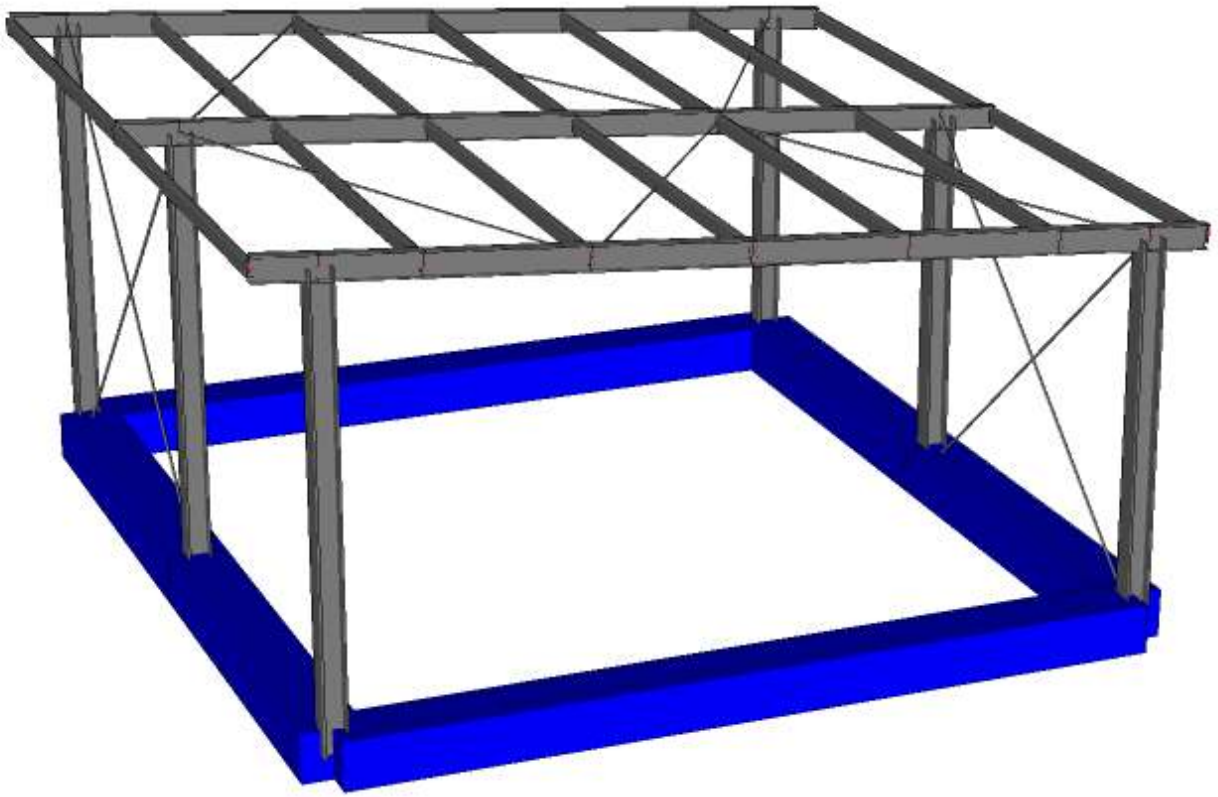
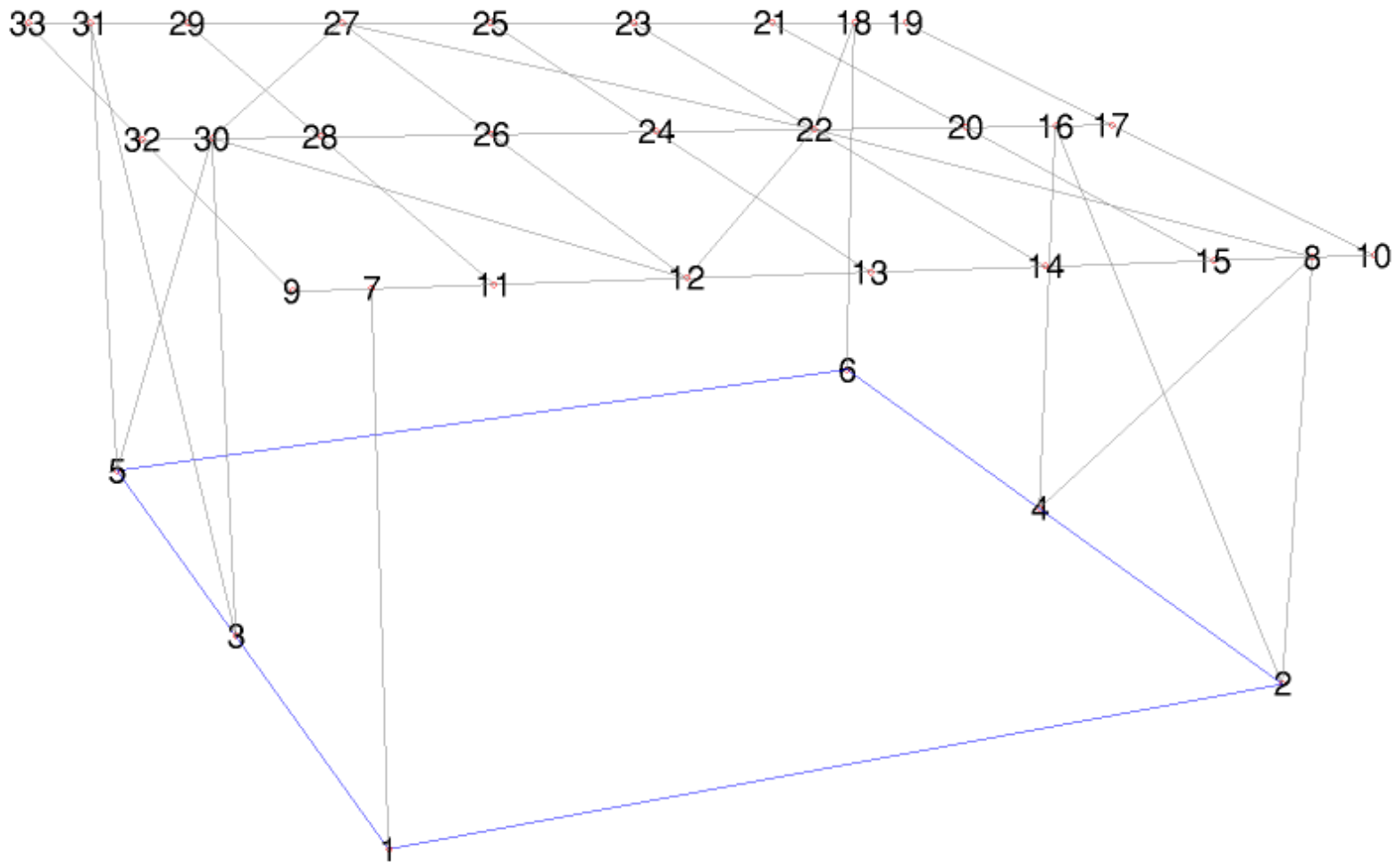
RISERVETTA

Tabulati e Verifiche
Struttura in Elevazione

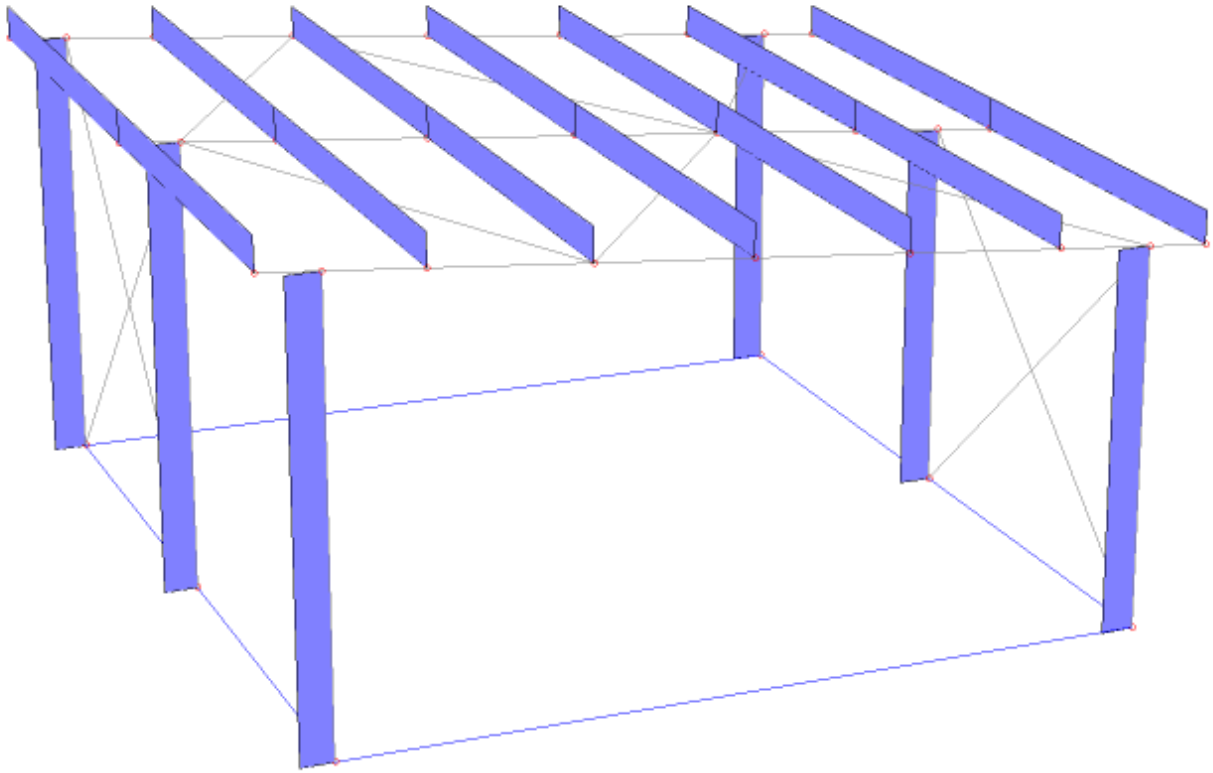
SCHEMA STRUTTURA 3D



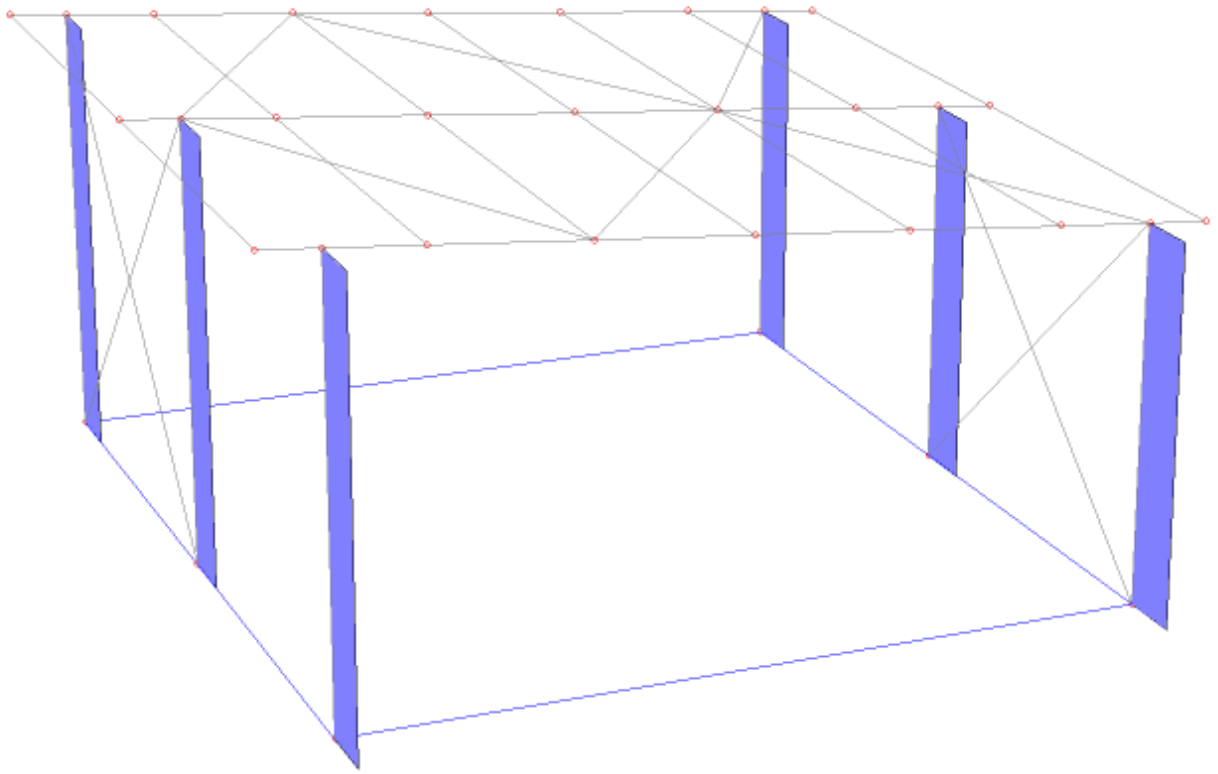
NUMERAZIONE NODI



CARICHI IN DIREZIONE NORMALE ALL’ASSE PRINCIPALE



CARICHI IN DIREZIONE TRASVERSALE ALL’ASSE PRINCIPALE



TABULATO DI CALCOLO E VERIFICHE
STATO LIMITE SALVAGUARDIA DELLA VITA **SLV**

STAMPA DEI DATI DI PROGETTO

INTESTAZIONE E DATI CARATTERISTICI DELLA STRUTTURA

Nome dell'archivio di lavoro	**RIS-SLV**
Intestazione del lavoro	**STRUTTURA IN ACCIAIO**
Tipo di struttura	Nello Spazio
Tipo di analisi	Statica e Dinamica
Tipo di soluzione	Lineare
Unita' di misura delle forze	kg
Unita' di misura delle lunghezze	m
Normativa	NTC-2018

NORMATIVA

Vita nominale costruzione	50 anni
Classe d'uso costruzione	IV
Vita di riferimento	100 anni
Luogo	Reggio di Calabria - (RC)
Longitudine (ED50)	15.654
Latitudine (ED50)	38.12
Categoria del suolo	B
Fattore topografico	1

PARAMETRI SISMICI

	TR
SLO	60
SLD	101
SLV	949

TR utilizzato nel progetto	949 anni
Comportamento strutturale	NON Dissipativo

STATO LIMITE ULTIMO

Coefficiente di smorzamento	5%
Eccentricita' accidentale	0%
Numero di frequenze	30
Fattore q di struttura per sisma orizzontale	qor=1

PARAMETRI SISMICI

Angolo del sisma nel piano orizzontale	0
Sisma verticale	Presente
Fattore di struttura qv per sisma verticale	1.5
Combinazione dei modi	SRSS
Combinazione componenti azioni sismiche	NTC - Eurocodice 8
λ	0.3
μ	0.3

RIEPILOGO DELLE SEZIONI UTILIZZATE NEL MODELLO STRUTTURALE

SEZIONE RETTANGOLARE

Codice	Base	H
7	0.500	0.400

SEZIONI CIRCOLARI PIENE

Codice	Diametro
5	0.020
6	0.014

SEZIONI A PROFILO SEMPLICE

Codice	Codice sezione	Asse Y capovolto
1	HEA 200	No
2	IPE 200	No
4	IPE 100	No

Codice	Codice famiglia	Codice profilo	Asse Y capovolto
3	RETTANGOLARI	120x 60x 4.0	

CARICHI PER ELEMENTI TRAVE, TRAVE DI FONDAZIONE E RETICOLARE

Carico distribuito con riferimento globale X

Descrizione	Cod.	Cond. carico	Tipo Azione/categoria	Val. iniz.	Dist. iniz. nodo I	Val. finale	Dist.fin. nodo I	Aliq.inerz.	Aliq.inerz. SLD
Azione del Vento in direzione x	3	Condizione 3	Variabile: Vento	110.000000	0.000	110.000000	0.000	0.0000	0.0000

Carico distribuito con riferimento globale Y

Descrizione	Cod.	Cond. carico	Tipo Azione/categoria	Val. iniz.	Dist. iniz. nodo I	Val. finale	Dist.fin. nodo I	Aliq.inerz.	Aliq.inerz. SLD
Azione del Vento in direzione y	4	Condizione 4	Variabile: Vento	110.000000	0.000	110.000000	0.000	0.0000	0.0000

Carico distribuito riferimento globale V

Descrizione	Cod.	Cond. carico	Tipo Azione/categoria	Val. iniz.	Dist. iniz. nodo I	Val. finale	Dist.fin. nodo I	Aliq.inerz.	Aliq.inerz. SLD
Peso copertura pannelli in acciaio e fotovoltaici	1	Condizione 1	Permanente: Permanente portato	25.000000	0.000	25.000000	0.000	1.0000	1.0000
Neve	2	Condizione 2	Variabile: Neve	60.000000	0.000	60.000000	0.000	0.0000	0.0000

LISTA MATERIALI UTILIZZATI

Codice	Descrizione	Mod. elast.	Coef. Poisson	Peso unit.	Dil. term.	Aliq. inerz.	Rigid. taglio	Rigid. fless.
1	Acciaio	+2.10e+010	0.300	7850.00000	+1.20e-005	1.000	+1.00e+000	+1.00e+000
2	Calcestruzzo	+2.84e+009	0.120	2500.00000	+1.00e-005	1.000	+1.00e+000	+1.00e+000

GRUPPI DELLA STRUTTURA

ELEMENTO FINITO: TRAVE

Numero gruppo	Descrizione gruppo	
1	COLONNE	
2	TRAVI PRINCIPALI	
3	ARCARECCI	
4	CONTROVENTI	

ELEMENTO FINITO: TRAVE DI FONDAZIONE

Numero gruppo	Descrizione gruppo	
1	TRAVI DI FONDAZIONE	

NODI DEL MODELLO

Nodo	Coord. X	Coord. Y	Coord. Z	Temper.	uX	uY	uZ	rX	rY	rZ
1	0.000	0.000	0.000	0.000	0	0	0	0	0	0
2	6.700	0.000	0.000	0.000	0	0	0	0	0	0
3	0.000	3.650	0.000	0.000	0	0	0	0	0	0
4	6.700	3.650	0.000	0.000	0	0	0	0	0	0
5	0.000	7.300	0.000	0.000	0	0	0	0	0	0
6	6.700	7.300	0.000	0.000	0	0	0	0	0	0
7	0.000	0.000	3.800	0.000	0	0	0	0	0	0
8	6.700	0.000	3.200	0.000	0	0	0	0	0	0
9	-0.498	0.000	3.845	0.000	0	0	0	0	0	0
10	7.198	0.000	3.155	0.000	0	0	0	0	0	0
11	0.785	0.000	3.730	0.000	0	0	0	0	0	0
12	2.067	0.000	3.615	0.000	0	0	0	0	0	0
13	3.350	0.000	3.500	0.000	0	0	0	0	0	0
14	4.633	0.000	3.385	0.000	0	0	0	0	0	0
15	5.915	0.000	3.270	0.000	0	0	0	0	0	0
16	6.700	3.650	3.200	0.000	0	0	0	0	0	0
17	7.198	3.650	3.155	0.000	0	0	0	0	0	0
18	6.700	7.300	3.200	0.000	0	0	0	0	0	0
19	7.198	7.300	3.155	0.000	0	0	0	0	0	0
20	5.915	3.650	3.270	0.000	0	0	0	0	0	0
21	5.915	7.300	3.270	0.000	0	0	0	0	0	0
22	4.633	3.650	3.385	0.000	0	0	0	0	0	0
23	4.633	7.300	3.385	0.000	0	0	0	0	0	0
24	3.350	3.650	3.500	0.000	0	0	0	0	0	0
25	3.350	7.300	3.500	0.000	0	0	0	0	0	0
26	2.067	3.650	3.615	0.000	0	0	0	0	0	0
27	2.067	7.300	3.615	0.000	0	0	0	0	0	0
28	0.785	3.650	3.730	0.000	0	0	0	0	0	0
29	0.785	7.300	3.730	0.000	0	0	0	0	0	0
30	0.000	3.650	3.800	0.000	0	0	0	0	0	0
31	0.000	7.300	3.800	0.000	0	0	0	0	0	0
32	-0.498	3.650	3.845	0.000	0	0	0	0	0	0
33	-0.498	7.300	3.845	0.000	0	0	0	0	0	0

Legenda: descrizione della simbologia adottata per i gradi di liberta'

Simbolo	Descrizione del Grado di Liberta'
0	libero
1	bloccato
MASTER	Master di una o piu' relazioni

GRUPPI ELEMENTO FINITO TRAVE

GRUPPO NUMERO: 1 - DESCRIZIONE: COLONNE

	Nodi			Connessioni				Offset strutturali/Conci rigidi
Asta	**I**	**J**	**K**	**Nodo I**	**Nodo J**	**Mat.**	**Sez.**	
1	1	7	0	Rigida	Rigida	1	1	
2	2	8	0	Rigida	Rigida	1	1	
3	4	16	0	Rigida	Rigida	1	1	
4	6	18	0	Rigida	Rigida	1	1	
5	3	30	0	Rigida	Rigida	1	1	
6	5	31	0	Rigida	Rigida	1	1	

GRUPPO NUMERO: 2 - DESCRIZIONE: TRAVI PRINCIPALI

	Nodi			Connessioni				Offset strutturali/Conci rigidi
Asta	**I**	**J**	**K**	**Nodo I**	**Nodo J**	**Mat.**	**Sez.**	
1	9	7	0	Rigida	Rigida	1	2	
2	7	11	0	Rigida	Rigida	1	2	
3	11	12	0	Rigida	Rigida	1	2	
4	12	13	0	Rigida	Rigida	1	2	
5	13	14	0	Rigida	Rigida	1	2	
6	14	15	0	Rigida	Rigida	1	2	
7	15	8	0	Rigida	Rigida	1	2	
8	8	10	0	Rigida	Rigida	1	2	
9	16	17	0	Rigida	Rigida	1	2	
10	18	19	0	Rigida	Rigida	1	2	
11	20	16	0	Rigida	Rigida	1	2	
12	21	18	0	Rigida	Rigida	1	2	
13	22	20	0	Rigida	Rigida	1	2	
14	23	21	0	Rigida	Rigida	1	2	
15	24	22	0	Rigida	Rigida	1	2	
16	25	23	0	Rigida	Rigida	1	2	
17	26	24	0	Rigida	Rigida	1	2	
18	27	25	0	Rigida	Rigida	1	2	
19	28	26	0	Rigida	Rigida	1	2	
20	29	27	0	Rigida	Rigida	1	2	
21	30	28	0	Rigida	Rigida	1	2	
22	31	29	0	Rigida	Rigida	1	2	
23	32	30	0	Rigida	Rigida	1	2	
24	33	31	0	Rigida	Rigida	1	2	

GRUPPO NUMERO: 3 - DESCRIZIONE: ARCARECCI

	Nodi			Connessioni				Offset strutturali/Conci rigidi
Asta	**I**	**J**	**K**	**Nodo I**	**Nodo J**	**Mat.**	**Sez.**	
1	32	33	0	Rigida	Rigida	1	3	
2	32	9	0	Rigida	Rigida	1	3	
3	28	29	0	Rigida	Rigida	1	3	
4	28	11	0	Rigida	Rigida	1	3	
5	26	27	0	Rigida	Rigida	1	3	
6	26	12	0	Rigida	Rigida	1	3	
7	24	25	0	Rigida	Rigida	1	3	
8	24	13	0	Rigida	Rigida	1	3	
9	22	23	0	Rigida	Rigida	1	3	
10	22	14	0	Rigida	Rigida	1	3	
11	15	20	0	Rigida	Rigida	1	3	
12	20	21	0	Rigida	Rigida	1	3	
13	10	17	0	Rigida	Rigida	1	3	
14	17	19	0	Rigida	Rigida	1	3	

GRUPPO NUMERO: 4 - DESCRIZIONE: CONTROVENTI

	Nodi			Connessioni				Offset strutturali/Conci rigidi
Asta	**I**	**J**	**K**	**Nodo I**	**Nodo J**	**Mat.**	**Sez.**	
1	5	30	0	Rigida	Rigida	1	5	
2	3	31	0	Rigida	Rigida	1	5	
3	4	8	0	Rigida	Rigida	1	5	
4	2	16	0	Rigida	Rigida	1	5	
5	8	22	0	Rigida	Rigida	1	6	
6	22	12	0	Rigida	Rigida	1	6	
7	12	30	0	Rigida	Rigida	1	6	
8	30	27	0	Rigida	Rigida	1	6	
9	27	22	0	Rigida	Rigida	1	6	
10	22	18	0	Rigida	Rigida	1	6	

GRUPPI ELEMENTO FINITO TRAVE - ELEMENTI CON CARICO APPLICATO

GRUPPO NUMERO: 1- DESCRIZIONE: COLONNE

Asta		Carichi	
1	Codice carico	3	4
	Moltiplicatore	1.0000	1.0000
2	Codice carico	3	4
	Moltiplicatore	1.0000	1.0000
3	Codice carico	3	4
	Moltiplicatore	1.0000	1.0000
4	Codice carico	3	4
	Moltiplicatore	1.0000	1.0000
5	Codice carico	3	4
	Moltiplicatore	1.0000	1.0000
6	Codice carico	3	4
	Moltiplicatore	1.0000	1.0000

GRUPPO NUMERO: 3- DESCRIZIONE: ARCARECCI

Asta		Carichi	
1	Codice carico	1	2
	Moltiplicatore	1.3000	1.3000
2	Codice carico	1	2
	Moltiplicatore	1.3000	1.3000
3	Codice carico	1	2
	Moltiplicatore	1.3000	1.3000
4	Codice carico	1	2
	Moltiplicatore	1.3000	1.3000
5	Codice carico	1	2
	Moltiplicatore	1.3000	1.3000
6	Codice carico	1	2
	Moltiplicatore	1.3000	1.3000
7	Codice carico	1	2
	Moltiplicatore	1.3000	1.3000
8	Codice carico	1	2
	Moltiplicatore	1.3000	1.3000
9	Codice carico	1	2
	Moltiplicatore	1.3000	1.3000
10	Codice carico	1	2
	Moltiplicatore	1.3000	1.3000
11	Codice carico	1	2
	Moltiplicatore	1.3000	1.3000

Asta				Carichi
12	Codice carico	1	2	
	Moltiplicatore	1.3000	1.3000	
13	Codice carico	1	2	
	Moltiplicatore	1.3000	1.3000	
14	Codice carico	1	2	
	Moltiplicatore	1.3000	1.3000	

COMBINAZIONI DI CARICO

NORMATIVA: NORME TECNICHE PER LE COSTRUZIONI 2018 ITALIA

COMBINAZIONI PER LE VERIFICHE ALLO STATO LIMITE ULTIMO

Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
1	Statica 1 (neve Prevalente e vento dir. X)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	1.500
			Variabile: Vento	Condizione 3	0.900
			Variabile: Vento	Condizione 4	0.000
2	Statica 2 (neve Prevalente e vento dir. Y)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	1.500
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	0.900
3	Statica 3 (Vento dir. X Prevalente e Neve)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	0.750
			Variabile: Vento	Condizione 3	1.500
			Variabile: Vento	Condizione 4	0.000
4	Statica 4 (Vento dir. Y Prevalente e Neve)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	0.750
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	1.500
5	Sismica (Dinamica)	Azione sismica: Presente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	0.200
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	0.000

COMBINAZIONI PER LE VERIFICHE ALLO STATO LIMITE DI DANNO

Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
6	Rara	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	1.000
			Variabile: Vento	Condizione 3	0.600
			Variabile: Vento	Condizione 4	0.600
7	Frequente	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	0.200
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	0.000
8	Quasi Permanente	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	0.200
9	Sismica	Azione sismica: Presente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	0.200

FORZE MOMENTI PER GRUPPI TRAVE

GRUPPO NUMERO: 1 - DESCRIZIONE: COLONNE

Elem./C.c.	Fx/I	Fx/J	Fy/I	Fy/J	Fz/I	Fz/J	Mx/I	Mx/J	My/I	My/J	Mz/I	Mz/J
El: 1 - C.c: 1	1.127e+03	-9.181e+02	1.175e+02	2.587e+02	-1.263e+01	1.263e+01	-3.282e-02	3.282e-02	4.065e+01	7.350e+00	2.557e+02	-5.239e+02
El: 1 - C.c: 2	1.172e+03	-9.634e+02	-2.327e+02	2.327e+02	2.346e+02	1.416e+02	-4.370e-02	4.370e-02	-1.843e+02	7.430e+00	-2.218e+02	-6.624e+02
El: 1 - C.c: 3	8.088e+02	-6.002e+02	4.119e+02	2.151e+02	-9.837e+00	9.837e+00	-2.123e-02	2.123e-02	3.244e+01	4.938e+00	6.201e+02	-2.460e+02
El: 1 - C.c: 4	8.843e+02	-6.757e+02	-1.717e+02	1.717e+02	4.023e+02	2.247e+02	-3.937e-02	3.937e-02	-3.424e+02	5.072e+00	-1.756e+02	-4.767e+02
El: 1 - C.c: 5	6.733e+02	-4.647e+02	-1.131e+02	1.131e+02	-4.034e+00	4.034e+00	-1.305e-02	1.305e-02	1.234e+01	2.988e+00	-1.018e+02	-3.282e+02
El: 1 - C.c: 10	5.356e+02	-3.751e+02	-9.104e+01	9.104e+01	-3.346e+00	3.346e+00	-1.075e-02	1.075e-02	1.027e+01	2.450e+00	-8.188e+01	-2.641e+02
El: 2 - C.c: 1	1.239e+03	-1.064e+03	6.052e+02	-2.884e+02	-5.663e+00	5.663e+00	-5.795e-02	5.795e-02	4.498e+00	1.362e+01	6.254e+02	8.043e+02
El: 2 - C.c: 2	1.036e+03	-8.601e+02	2.384e+02	-2.384e+02	1.957e+02	1.211e+02	-4.129e-02	4.129e-02	-1.332e+02	1.397e+01	1.174e+02	6.455e+02
El: 2 - C.c: 3	9.672e+02	-7.915e+02	7.771e+02	-2.491e+02	-4.098e+00	4.098e+00	-3.994e-02	3.994e-02	1.854e+00	1.126e+01	9.244e+02	7.176e+02
El: 2 - C.c: 4	6.280e+02	-4.523e+02	1.658e+02	-1.658e+02	3.314e+02	1.966e+02	-1.217e-02	1.217e-02	-2.277e+02	1.183e+01	7.757e+01	4.528e+02
El: 2 - C.c: 5	6.680e+02	-4.923e+02	1.179e+02	-1.179e+02	-3.973e+00	3.973e+00	-2.348e-02	2.348e-02	3.151e+00	9.564e+00	5.488e+01	3.223e+02
El: 2 - C.c: 10	5.325e+02	-3.974e+02	9.504e+01	-9.504e+01	-3.133e+00	3.133e+00	-1.923e-02	1.923e-02	2.525e+00	7.501e+00	4.454e+01	2.596e+02
El: 3 - C.c: 1	3.039e+03	-2.863e+03	9.901e+02	-6.733e+02	8.564e+00	-8.564e+00	-3.902e-02	3.902e-02	-2.246e+01	-4.942e+00	8.656e+02	1.796e+03
El: 3 - C.c: 2	3.135e+03	-2.960e+03	6.505e+02	-6.505e+02	2.154e+02	1.014e+02	-3.005e-02	3.005e-02	-1.777e+02	-4.763e+00	4.386e+02	1.643e+03
El: 3 - C.c: 3	2.159e+03	-1.984e+03	1.007e+03	-4.788e+02	5.258e+00	-5.258e+00	-2.466e-02	2.466e-02	-1.200e+01	-4.825e+00	1.007e+03	1.370e+03
El: 3 - C.c: 4	2.321e+03	-2.145e+03	4.409e+02	-4.409e+02	3.500e+02	1.780e+02	-9.711e-03	9.711e-03	-2.708e+02	-4.526e+00	2.955e+02	1.115e+03
El: 3 - C.c: 5	1.416e+03	-1.241e+03	2.899e+02	-2.899e+02	5.232e+00	-5.232e+00	-1.522e-02	1.522e-02	-1.193e+01	-4.817e+00	1.877e+02	7.399e+02
El: 3 - C.c: 10	1.145e+03	-1.010e+03	2.358e+02	-2.358e+02	4.182e+00	-4.182e+00	-1.257e-02	1.257e-02	-9.673e+00	-3.711e+00	1.533e+02	6.014e+02
El: 4 - C.c: 1	1.210e+03	-1.034e+03	5.591e+02	-2.423e+02	1.300e+01	-1.300e+01	-5.460e-02	5.460e-02	-3.235e+01	-9.253e+00	5.223e+02	7.598e+02
El: 4 - C.c: 2	1.167e+03	-9.910e+02	1.976e+02	-1.976e+02	2.246e+02	9.215e+01	-1.240e-02	1.240e-02	-2.027e+02	-9.332e+00	2.029e+01	6.121e+02
El: 4 - C.c: 3	9.470e+02	-7.713e+02	7.467e+02	-2.187e+02	6.019e+00	-6.019e+00	-3.219e-02	3.219e-02	-1.256e+01	-6.700e+00	8.564e+02	6.882e+02
El: 4 - C.c: 4	8.744e+02	-6.988e+02	1.443e+02	-1.443e+02	3.588e+02	1.692e+02	3.813e-02	-3.813e-02	-2.964e+02	-6.832e+00	1.966e+01	4.422e+02
El: 4 - C.c: 5	6.541e+02	-4.784e+02	1.000e+02	-1.000e+02	6.413e+00	-6.413e+00	-2.290e-02	2.290e-02	-1.550e+01	-5.021e+00	1.490e+01	3.051e+02
El: 4 - C.c: 10	5.212e+02	-3.861e+02	8.031e+01	-8.031e+01	5.258e+00	-5.258e+00	-1.886e-02	1.886e-02	-1.281e+01	-4.016e+00	1.158e+01	2.454e+02
El: 5 - C.c: 1	2.859e+03	-2.651e+03	-2.787e+02	6.549e+02	-7.422e+00	7.422e+00	-2.328e-02	2.328e-02	2.284e+01	5.360e+00	-2.337e+02	-1.540e+03
El: 5 - C.c: 2	2.707e+03	-2.498e+03	-6.040e+02	6.040e+02	2.355e+02	1.407e+02	1.504e-02	-1.504e-02	-1.858e+02	5.790e+00	-6.247e+02	-1.671e+03
El: 5 - C.c: 3	1.958e+03	-1.749e+03	1.313e+02	4.957e+02	-6.291e+00	6.291e+00	-1.488e-02	1.488e-02	1.860e+01	5.310e+00	2.342e+02	-9.265e+02
El: 5 - C.c: 4	1.704e+03	-1.495e+03	-4.109e+02	4.109e+02	3.985e+02	2.285e+02	4.899e-02	-4.899e-02	-3.291e+02	6.027e+00	-4.175e+02	-1.144e+03
El: 5 - C.c: 5	1.398e+03	-1.189e+03	-2.693e+02	2.693e+02	-3.897e+00	3.897e+00	-9.265e-03	9.265e-03	9.619e+00	5.190e+00	-2.759e+02	-7.473e+02
El: 5 - C.c: 10	1.129e+03	-9.682e+02	-2.190e+02	2.190e+02	-3.097e+00	3.097e+00	-7.634e-03	7.634e-03	7.772e+00	3.997e+00	-2.248e+02	-6.075e+02
El: 6 - C.c: 1	1.140e+03	-9.309e+02	8.587e+01	2.903e+02	4.549e+00	-4.549e+00	-2.183e-02	2.183e-02	-5.302e+00	-1.198e+01	1.762e+02	-5.646e+02
El: 6 - C.c: 2	1.386e+03	-1.177e+03	-2.498e+02	2.498e+02	2.423e+02	1.339e+02	1.535e-02	-1.535e-02	-1.945e+02	-1.134e+01	-2.596e+02	-6.897e+02
El: 6 - C.c: 3	8.203e+02	-6.117e+02	3.911e+02	2.359e+02	3.836e+00	-3.836e+00	-1.340e-02	1.340e-02	-4.906e+00	-9.671e+00	5.677e+02	-2.728e+02
El: 6 - C.c: 4	1.231e+03	-1.022e+03	-1.684e+02	1.684e+02	4.000e+02	2.270e+02	4.857e-02	-4.857e-02	-3.202e+02	-8.603e+00	-1.587e+02	-4.812e+02
El: 6 - C.c: 5	6.799e+02	-4.713e+02	-1.254e+02	1.254e+02	2.629e+00	-2.629e+00	-8.613e-03	8.613e-03	-2.061e+00	-7.931e+00	-1.326e+02	-3.439e+02
El: 6 - C.c: 10	5.409e+02	-3.804e+02	-1.011e+02	1.011e+02	2.079e+00	-2.079e+00	-7.118e-03	7.118e-03	-1.658e+00	-6.244e+00	-1.073e+02	-2.771e+02

GRUPPO NUMERO: 2 - DESCRIZIONE: TRAVI PRINCIPALI

Elem./C.c.	Fx/I	Fx/J	Fy/I	Fy/J	Fz/I	Fz/J	Mx/I	Mx/J	My/I	My/J	Mz/I	Mz/J
El: 1 - C.c: 1	2.321e+01	-2.450e+01	-2.368e+02	2.513e+02	1.302e+01	-1.302e+01	-4.044e+00	4.044e+00	-5.470e+00	-1.042e+00	-4.636e+00	-1.174e+02
El: 1 - C.c: 2	2.419e+01	-2.548e+01	-2.362e+02	2.507e+02	8.409e+01	-8.409e+01	-4.091e+00	4.091e+00	-9.315e+00	-3.273e+01	-4.954e+00	-1.168e+02
El: 1 - C.c: 3	1.547e+01	-1.677e+01	-1.568e+02	1.713e+02	9.650e+00	-9.650e+00	-2.728e+00	2.728e+00	-3.838e+00	-9.870e-01	-2.937e+00	-7.908e+01
El: 1 - C.c: 4	1.711e+01	-1.840e+01	-1.558e+02	1.702e+02	1.281e+02	-1.281e+02	-2.805e+00	2.805e+00	-1.025e+01	-5.380e+01	-3.466e+00	-7.803e+01
El: 1 - C.c: 5	9.491e+00	-1.079e+01	-9.766e+01	1.121e+02	4.599e+00	-4.599e+00	-1.637e+00	1.637e+00	-2.106e+00	-1.935e-01	-2.002e+00	-5.045e+01
El: 1 - C.c: 10	7.782e+00	-8.780e+00	-8.006e+01	9.120e+01	3.794e+00	-3.794e+00	-1.342e+00	1.342e+00	-1.730e+00	-1.665e-01	-1.639e+00	-4.117e+01
El: 2 - C.c: 1	2.003e+02	-2.023e+02	6.862e+02	-6.634e+02	3.915e-01	-3.915e-01	3.279e+00	-3.279e+00	1.665e+00	-1.973e+00	6.413e+02	-1.097e+02
El: 2 - C.c: 2	1.713e+02	-1.733e+02	7.296e+02	-7.068e+02	-5.747e+01	5.747e+01	3.314e+00	-3.314e+00	3.335e+01	1.193e+01	7.791e+02	-2.133e+02
El: 2 - C.c: 3	1.774e+02	-1.795e+02	4.457e+02	-4.229e+02	-1.869e-01	1.869e-01	2.193e+00	-2.193e+00	1.406e+00	-1.259e+00	3.251e+02	1.708e+01
El: 2 - C.c: 4	1.291e+02	-1.312e+02	5.181e+02	-4.953e+02	-9.663e+01	9.663e+01	2.250e+00	-2.250e+00	5.421e+01	2.191e+01	5.547e+02	-1.556e+02
El: 2 - C.c: 5	8.203e+01	-8.407e+01	3.608e+02	-3.380e+02	5.646e-01	-5.646e-01	1.340e+00	-1.340e+00	4.470e-01	-8.917e-01	3.786e+02	-1.034e+02
El: 2 - C.c: 10	6.600e+01	-6.757e+01	2.906e+02	-2.730e+02	4.475e-01	-4.475e-01	1.099e+00	-1.099e+00	3.744e-01	-7.269e-01	3.053e+02	-8.327e+01
El: 3 - C.c: 1	2.262e+02	-2.295e+02	4.200e+02	-3.827e+02	5.001e+00	-5.001e+00	7.216e-01	-7.216e-01	-3.603e+00	-2.837e+00	9.731e+01	4.195e+02
El: 3 - C.c: 2	1.961e+02	-1.994e+02	4.638e+02	-4.265e+02	1.472e+01	-1.472e+01	7.390e-01	-7.390e-01	-1.449e+01	-4.464e+00	2.006e+02	3.726e+02
El: 3 - C.c: 3	1.953e+02	-1.987e+02	2.618e+02	-2.245e+02	3.551e+00	-3.551e+00	4.861e-01	-4.861e-01	-2.582e+00	-1.991e+00	-2.520e+01	3.384e+02
El: 3 - C.c: 4	1.452e+02	-1.486e+02	3.349e+02	-2.976e+02	1.975e+01	-1.975e+01	5.152e-01	-5.152e-01	-2.073e+01	-4.703e+00	1.470e+02	2.602e+02
El: 3 - C.c: 5	9.388e+01	-9.722e+01	2.375e+02	-2.002e+02	1.907e+00	-1.907e+00	3.206e-01	-3.206e-01	-1.342e+00	-1.113e+00	9.819e+01	1.836e+02
El: 3 - C.c: 10	7.561e+01	-7.818e+01	1.907e+02	-1.620e+02	1.567e+00	-1.567e+00	2.610e-01	-2.610e-01	-1.105e+00	-9.131e-01	7.901e+01	1.480e+02
El: 4 - C.c: 1	2.614e+02	-2.648e+02	1.237e+02	-8.637e+01	4.386e+00	-4.386e+00	2.659e-01	-2.659e-01	-2.846e+00	-2.803e+00	-4.304e+02	5.656e+02
El: 4 - C.c: 2	2.266e+02	-2.299e+02	1.677e+02	-1.304e+02	2.554e+00	-2.554e+00	2.755e-01	-2.755e-01	-1.162e+00	-2.127e+00	-3.837e+02	5.757e+02
El: 4 - C.c: 3	2.308e+02	-2.341e+02	5.148e+01	-1.418e+01	3.080e+00	-3.080e+00	1.638e-01	-1.638e-01	-1.991e+00	-1.975e+00	-3.456e+02	3.879e+02
El: 4 - C.c: 4	1.727e+02	-1.760e+02	1.249e+02	-8.761e+01	2.552e-02	-2.552e-02	1.798e-01	-1.798e-01	8.148e-01	-8.477e-01	-2.678e+02	4.047e+02
El: 4 - C.c: 5	1.051e+02	-1.085e+02	9.020e+01	-5.289e+01	1.794e+00	-1.794e+00	9.300e-02	-9.300e-02	-1.195e+00	-1.116e+00	-1.884e+02	2.805e+02
El: 4 - C.c: 10	8.471e+01	-8.728e+01	7.208e+01	-4.339e+01	1.467e+00	-1.467e+00	7.774e-02	-7.774e-02	-9.747e-01	-9.141e-01	-1.519e+02	2.263e+02
El: 5 - C.c: 1	2.895e+02	-2.929e+02	-1.725e+02	2.098e+02	4.026e+00	-4.026e+00	-2.962e-01	2.962e-01	-2.793e+00	-2.392e+00	-5.657e+02	3.195e+02
El: 5 - C.c: 2	2.546e+02	-2.580e+02	-1.284e+02	1.657e+02	4.548e+00	-4.548e+00	-2.865e-01	2.865e-01	-3.324e+00	-2.532e+00	-5.759e+02	3.865e+02

Elem./C.c.	Fx/I	Fx/J	Fy/I	Fy/J	Fz/I	Fz/J	Mx/I	Mx/J	My/I	My/J	Mz/I	Mz/J
El: 5 - C.c: 3	2.506e+02	-2.540e+02	-1.570e+02	1.943e+02	2.689e+00	-2.689e+00	-1.979e-01	1.979e-01	-1.903e+00	-1.560e+00	-3.879e+02	1.617e+02
El: 5 - C.c: 4	1.924e+02	-1.958e+02	-8.356e+01	1.209e+02	3.559e+00	-3.559e+00	-1.818e-01	1.818e-01	-2.789e+00	-1.795e+00	-4.050e+02	2.734e+02
El: 5 - C.c: 5	1.186e+02	-1.220e+02	-5.407e+01	9.138e+01	1.619e+00	-1.619e+00	-1.220e-01	1.220e-01	-1.110e+00	-9.752e-01	-2.806e+02	1.869e+02
El: 5 - C.c: 10	9.563e+01	-9.820e+01	-4.429e+01	7.298e+01	1.329e+00	-1.329e+00	-9.993e-02	9.993e-02	-9.110e-01	-8.009e-01	-2.263e+02	1.508e+02
El: 6 - C.c: 1	3.173e+02	-3.207e+02	-4.636e+02	5.009e+02	5.159e+00	-5.159e+00	-6.970e-01	6.970e-01	-3.212e+00	-3.433e+00	-3.090e+02	-3.120e+02
El: 6 - C.c: 2	2.825e+02	-2.858e+02	-4.196e+02	4.569e+02	6.694e+00	-6.694e+00	-6.888e-01	6.888e-01	-3.145e+00	-5.476e+00	-3.762e+02	-1.883e+02
El: 6 - C.c: 3	2.702e+02	-2.736e+02	-3.622e+02	3.995e+02	4.113e+00	-4.113e+00	-4.664e-01	4.664e-01	-2.356e+00	-2.941e+00	-1.547e+02	-3.358e+02
El: 6 - C.c: 4	2.122e+02	-2.155e+02	-2.889e+02	3.262e+02	6.672e+00	-6.672e+00	-4.527e-01	4.527e-01	-2.246e+00	-6.346e+00	-2.666e+02	-1.295e+02
El: 6 - C.c: 5	1.320e+02	-1.354e+02	-1.962e+02	2.336e+02	1.892e+00	-1.892e+00	-2.893e-01	2.893e-01	-1.239e+00	-1.197e+00	-1.825e+02	-9.420e+01
El: 6 - C.c: 10	1.064e+02	-1.090e+02	-1.589e+02	1.876e+02	1.547e+00	-1.547e+00	-2.368e-01	2.368e-01	-1.015e+00	-9.771e-01	-1.472e+02	-7.593e+01
El: 7 - C.c: 1	3.449e+02	-3.469e+02	-7.440e+02	7.669e+02	2.986e+00	-2.986e+00	-3.091e+00	3.091e+00	-2.700e+00	3.474e-01	3.247e+02	-9.199e+02
El: 7 - C.c: 2	3.092e+02	-3.112e+02	-7.005e+02	7.233e+02	-9.624e+00	9.624e+00	-3.199e+00	3.199e+00	8.325e-01	6.750e+00	2.008e+02	-7.616e+02
El: 7 - C.c: 3	2.896e+02	-2.916e+02	-5.602e+02	5.830e+02	-8.298e-01	8.298e-01	-2.038e+00	2.038e+00	-1.139e+00	1.793e+00	3.443e+02	-7.946e+02
El: 7 - C.c: 4	2.301e+02	-2.321e+02	-4.876e+02	5.104e+02	-2.185e+01	2.185e+01	-2.217e+00	2.217e+00	4.748e+00	1.246e+01	1.377e+02	-5.308e+02
El: 7 - C.c: 5	1.453e+02	-1.474e+02	-3.340e+02	3.568e+02	2.050e+00	-2.050e+00	-1.270e+00	1.270e+00	-1.298e+00	-3.170e-01	9.946e+01	-3.716e+02
El: 7 - C.c: 10	1.172e+02	-1.188e+02	-2.700e+02	2.875e+02	1.704e+00	-1.704e+00	-1.041e+00	1.041e+00	-1.070e+00	-2.725e-01	8.024e+01	-2.998e+02
El: 8 - C.c: 1	-2.398e+01	2.269e+01	2.510e+02	-2.365e+02	9.130e+00	-9.130e+00	3.712e+00	-3.712e+00	2.448e-01	-4.810e+00	1.167e+02	5.126e+00
El: 8 - C.c: 2	-2.499e+01	2.369e+01	2.516e+02	-2.371e+02	2.488e+01	-2.488e+01	3.916e+00	-3.916e+00	-6.129e+00	-6.311e+00	1.173e+02	4.878e+00
El: 8 - C.c: 3	-1.651e+01	1.521e+01	1.706e+02	-1.561e+02	1.003e+01	-1.003e+01	2.427e+00	-2.427e+00	-1.387e+00	-3.631e+00	7.815e+01	3.544e+00
El: 8 - C.c: 4	-1.818e+01	1.689e+01	1.717e+02	-1.572e+02	3.629e+01	-3.629e+01	2.766e+00	-2.766e+00	-1.201e+01	-6.133e+00	7.908e+01	3.130e+00
El: 8 - C.c: 5	-1.058e+01	9.283e+00	1.122e+02	-9.771e+01	2.516e+00	-2.516e+00	1.523e+00	-1.523e+00	5.559e-01	-1.814e+00	5.039e+01	2.082e+00
El: 8 - C.c: 10	-8.607e+00	7.609e+00	9.124e+01	-8.009e+01	2.036e+00	-2.036e+00	1.250e+00	-1.250e+00	4.682e-01	-1.486e+00	4.113e+01	1.705e+00
El: 9 - C.c: 1	-6.844e+01	6.714e+01	7.973e+02	-7.828e+02	-2.353e+01	2.353e+01	-1.311e-01	1.311e-01	1.049e+01	1.275e+00	4.047e+02	-9.630e+00
El: 9 - C.c: 2	-6.656e+01	6.526e+01	7.961e+02	-7.816e+02	5.413e+00	-5.413e+00	-3.130e-02	3.130e-02	-2.087e+00	-6.198e-01	4.037e+02	-9.218e+00
El: 9 - C.c: 3	-4.529e+01	4.399e+01	5.326e+02	-5.182e+02	-1.494e+01	1.494e+01	-5.800e-02	5.800e-02	6.670e+00	8.017e-01	2.694e+02	-6.676e+00
El: 9 - C.c: 4	-4.216e+01	4.086e+01	5.307e+02	-5.162e+02	3.329e+01	-3.329e+01	1.084e-01	-1.084e-01	-1.429e+01	-2.357e+00	2.677e+02	-5.990e+00
El: 9 - C.c: 5	-2.918e+01	2.788e+01	3.376e+02	-3.231e+02	-1.018e+01	1.018e+01	-5.329e-02	5.329e-02	4.520e+00	5.688e-01	1.691e+02	-3.920e+00
El: 9 - C.c: 10	-2.386e+01	2.286e+01	2.760e+02	-2.648e+02	-8.329e+00	8.329e+00	-4.456e-02	4.456e-02	3.700e+00	4.645e-01	1.384e+02	-3.209e+00
El: 10 - C.c: 1	-2.394e+01	2.264e+01	2.511e+02	-2.366e+02	1.440e+01	-1.440e+01	-3.939e+00	3.939e+00	-1.056e+01	3.363e+00	1.174e+02	4.504e+00
El: 10 - C.c: 2	-2.481e+01	2.351e+01	2.516e+02	-2.371e+02	-3.029e+01	3.029e+01	-4.007e+00	4.007e+00	8.876e+00	6.271e+00	1.178e+02	4.341e+00
El: 10 - C.c: 3	-1.647e+01	1.517e+01	1.707e+02	-1.562e+02	4.908e+00	-4.908e+00	-2.538e+00	2.538e+00	-5.153e+00	2.699e+00	7.858e+01	3.132e+00
El: 10 - C.c: 4	-1.793e+01	1.663e+01	1.716e+02	-1.571e+02	-6.958e+01	6.958e+01	-2.651e+00	2.651e+00	2.724e+01	7.546e+00	7.931e+01	2.860e+00
El: 10 - C.c: 5	-1.057e+01	9.273e+00	1.122e+02	-9.775e+01	7.662e+00	-7.662e+00	-1.640e+00	1.640e+00	-5.040e+00	1.209e+00	5.066e+01	1.838e+00
El: 10 - C.c: 10	-8.598e+00	7.601e+00	9.127e+01	-8.013e+01	6.293e+00	-6.293e+00	-1.345e+00	1.345e+00	-4.137e+00	9.903e-01	4.135e+01	1.504e+00
El: 11 - C.c: 1	8.590e+02	-8.610e+02	-2.010e+03	2.033e+03	2.080e+01	-2.080e+01	6.273e-02	-6.273e-02	-5.713e+00	-1.067e+01	6.080e+02	-2.200e+03
El: 11 - C.c: 2	8.340e+02	-8.361e+02	-1.967e+03	1.989e+03	-3.852e+00	3.852e+00	7.854e-03	-7.854e-03	1.081e+00	1.954e+00	4.886e+02	-2.047e+03
El: 11 - C.c: 3	6.085e+02	-6.105e+02	-1.399e+03	1.422e+03	1.327e+01	-1.327e+01	2.335e-02	-2.335e-02	-3.645e+00	-6.813e+00	5.278e+02	-1.639e+03
El: 11 - C.c: 4	5.669e+02	-5.689e+02	-1.327e+03	1.350e+03	-2.781e+01	2.781e+01	-6.812e-02	6.812e-02	7.678e+00	1.423e+01	3.288e+02	-1.383e+03
El: 11 - C.c: 5	3.694e+02	-3.714e+02	-8.628e+02	8.857e+02	8.936e+00	-8.936e+00	2.549e-02	-2.549e-02	-2.453e+00	-4.587e+00	2.204e+02	-9.091e+02
El: 11 - C.c: 10	3.006e+02	-3.022e+02	-7.030e+02	7.205e+02	7.314e+00	-7.314e+00	2.144e-02	-2.144e-02	-2.008e+00	-3.754e+00	1.792e+02	-7.399e+02
El: 12 - C.c: 1	3.200e+02	-3.220e+02	-7.316e+02	7.544e+02	-2.088e+01	2.088e+01	3.214e+00	-3.214e+00	6.586e+00	9.860e+00	2.906e+02	-8.760e+02
El: 12 - C.c: 2	2.851e+02	-2.872e+02	-6.916e+02	7.145e+02	1.430e+01	-1.430e+01	3.230e+00	-3.230e+00	-1.727e+00	-9.542e+00	1.749e+02	-7.288e+02
El: 12 - C.c: 3	2.732e+02	-2.752e+02	-5.519e+02	5.748e+02	-1.055e+01	1.055e+01	2.094e+00	-2.094e+00	3.612e+00	4.702e+00	3.218e+02	-7.656e+02
El: 12 - C.c: 4	2.152e+02	-2.172e+02	-4.854e+02	5.082e+02	4.808e+01	-4.808e+01	2.120e+00	-2.120e+00	-1.024e+01	-2.763e+01	1.290e+02	-5.204e+02
El: 12 - C.c: 5	1.357e+02	-1.377e+02	-3.292e+02	3.520e+02	-9.813e+00	9.813e+00	1.336e+00	-1.336e+00	2.983e+00	4.748e+00	8.628e+01	-3.546e+02
El: 12 - C.c: 10	1.092e+02	-1.108e+02	-2.660e+02	2.836e+02	-8.053e+00	8.053e+00	1.095e+00	-1.095e+00	2.448e+00	3.897e+00	6.937e+01	-2.859e+02
El: 13 - C.c: 1	7.906e+02	-7.939e+02	-1.203e+03	1.241e+03	-2.675e+00	2.675e+00	1.952e-04	-1.952e-04	2.747e-01	3.170e+00	-9.404e+02	-6.332e+02
El: 13 - C.c: 2	7.647e+02	-7.681e+02	-1.161e+03	1.198e+03	1.368e+00	-1.368e+00	-2.705e-03	2.705e-03	-4.971e-01	-1.265e+00	-1.005e+03	-5.133e+02
El: 13 - C.c: 3	5.621e+02	-5.655e+02	-8.528e+02	8.902e+02	-1.686e+00	1.686e+00	1.927e-05	-1.927e-05	1.644e-01	2.007e+00	-5.776e+02	-5.447e+02
El: 13 - C.c: 4	5.191e+02	-5.224e+02	-7.819e+02	8.192e+02	5.053e+00	-5.053e+00	-4.815e-03	4.815e-03	-1.122e+00	-5.385e+00	-6.860e+02	-3.450e+02
El: 13 - C.c: 5	3.391e+02	-3.425e+02	-5.079e+02	5.452e+02	-1.190e+00	1.190e+00	3.531e-05	-3.531e-05	1.411e-01	1.391e+00	-4.473e+02	-2.308e+02
El: 13 - C.c: 10	2.760e+02	-2.786e+02	-4.139e+02	4.426e+02	-9.716e-01	9.716e-01	3.523e-05	-3.523e-05	1.142e-01	1.137e+00	-3.638e+02	-1.877e+02
El: 14 - C.c: 1	2.934e+02	-2.968e+02	-4.511e+02	4.884e+02	4.243e-01	-4.243e-01	6.936e-01	-6.936e-01	1.071e+00	-1.618e+00	-3.267e+02	-2.782e+02
El: 14 - C.c: 2	2.586e+02	-2.620e+02	-4.108e+02	4.481e+02	-7.235e+00	7.235e+00	6.847e-01	-6.847e-01	3.444e+00	5.874e+00	-3.903e+02	-1.627e+02
El: 14 - C.c: 3	2.545e+02	-2.578e+02	-3.539e+02	3.912e+02	-5.362e-01	5.362e-01	4.639e-01	-4.639e-01	9.834e-01	-2.930e-01	-1.663e+02	-3.135e+02
El: 14 - C.c: 4	1.965e+02	-1.998e+02	-2.868e+02	3.241e+02	-1.330e+01	1.330e+01	4.491e-01	-4.491e-01	4.937e+00	1.219e+01	-2.723e+02	-1.210e+02
El: 14 - C.c: 5	1.228e+02	-1.261e+02	-1.914e+02	2.287e+02	4.712e-01	-4.712e-01	2.879e-01	-2.879e-01	3.464e-01	-9.531e-01	-1.894e+02	-8.113e+01
El: 14 - C.c: 10	9.879e+01	-1.014e+02	-1.550e+02	1.837e+02	3.890e-01	-3.890e-01	2.358e-01	-2.358e-01	2.828e-01	-7.837e-01	-1.529e+02	-6.515e+01
El: 15 - C.c: 1	6.886e+02	-6.920e+02	-4.041e+02	4.414e+02	1.388e+00	-1.388e+00	2.706e-03	-2.706e-03	-6.975e-01	-1.090e+00	-1.464e+03	9.199e+02
El: 15 - C.c: 2	6.323e+02	-6.357e+02	-3.618e+02	3.991e+02	3.593e-01	-3.593e-01	1.164e-03	-1.164e-03	-1.850e-01	-2.777e-01	-1.475e+03	9.854e+02
El: 15 - C.c: 3	5.107e+02	-5.140e+02	-3.071e+02	3.444e+02	8.983e-01	-8.983e-01	1.749e-03	-1.749e-03	-4.528e-01	-7.040e-01	-9.837e+02	5.642e+02
El: 15 - C.c: 4	4.169e+02	-4.202e+02	-2.367e+02	2.740e+02	-8.168e-01	8.168e-01	-8.222e-04	8.222e-04	4.014e-01	6.505e-01	-1.002e+03	6.733e+02
El: 15 - C.c: 5	2.861e+02	-2.894e+02	-1.482e+02	1.855e+02	5.756e-01	-5.756e-01	9.605e-04	-9.605e-04	-2.835e-01	-4.577e-01	-6.542e+02	4.393e+02
El: 15 - C.c: 10	2.328e+02	-2.354e+02	-1.217e+02	1.504e+02	4.722e-01	-4.722e-01	7.994e-04	-7.994e-04	-2.329e-01	-3.752e-01	-5.324e+02	3.572e+02
El: 16 - C.c: 1	2.662e+02	-2.695e+02	-1.600e+02	1.973e+02	-4.437e+00	4.437e+00	3.027e-01	-3.027e-01	2.360e+00	3.354e+00	-5.673e+02	3.373e+02
El: 16 - C.c: 2	2.312e+02	-2.346e+02	-1.196e+02	1.569e+02	-2.748e+00	2.748e+00	2.890e-01	-2.890e-01	2.066e+00	1.474e+00	-5.786e+02	4.006e+02
El: 16 - C.c: 3	2.352e+02	-2.386e+02	-1.488e+02	1.861e+02	-2.929e+00	2.929e+00	2.021e-01	-2.021e-01	1.609e+00	2.162e+00	-3.890e+02	1.734e+02
El: 16 - C.c: 4	1.769e+02	-1.803e+02	-8.139e+01	1.187e+02	-1.135e-01	1.135e-01	1.793e-01	-1.793e-01	1.119e+00	-9.728e-01	-4.078e+02	2.790e+02
El: 16 - C.c: 5	1.096e+02	-1.129e+02	-4.924e+01	8.654e+01	-1.806e+00	1.806e+00	1.244e-01	-1.244e-01	9.291e-01	1.396e+00	-2.812e+02	1.938e+02
El: 16 - C.c: 10	8.817e+01	-9.074e+01	-4.030e+01	6.900e+01	-1.482e+00	1.482e+00	1.019e-01	-1.019e-01	7.634e-01	1.145e+00	-2.268e+02	1.565e+02
El: 17 - C.c: 1	6.219e+02	-6.252e+02	3.713e+02	-3.340e+02	5.758e-01	-5.758e-01	3.595e-03	-3.595e-03	-5.936e-01	-1.480e-01	-1.010e+03	1.464e+03
El: 17 - C.c: 2	5.655e+02	-5.689e+02	4.137e+02	-3.764e+02	2.520e+00	-2.520e+00	2.995e-03	-2.995e-03	-2.627e+00	-6.186e-01	-9.669e+02	1.476e+03

Elem./C.c.	Fx/I	Fx/J	Fy/I	Fy/J	Fz/I	Fz/J	Mx/I	Mx/J	My/I	My/J	Mz/I	Mz/J
El: 17 - C.c: 3	4.656e+02	-4.690e+02	2.182e+02	-1.809e+02	3.978e-01	-3.978e-01	2.332e-03	-2.332e-03	-4.073e-01	-1.051e-01	-7.266e+02	9.836e+02
El: 17 - C.c: 4	3.717e+02	-3.750e+02	2.888e+02	-2.515e+02	3.639e+00	-3.639e+00	1.333e-03	-1.333e-03	-3.797e+00	-8.894e-01	-6.548e+02	1.003e+03
El: 17 - C.c: 5	2.565e+02	-2.599e+02	1.937e+02	-1.564e+02	2.484e-01	-2.484e-01	1.342e-03	-1.342e-03	-2.697e-01	-5.015e-02	-4.288e+02	6.542e+02
El: 17 - C.c: 10	2.087e+02	-2.113e+02	1.568e+02	-1.281e+02	2.024e-01	-2.024e-01	1.111e-03	-1.111e-03	-2.190e-01	-4.167e-02	-3.490e+02	5.324e+02
El: 18 - C.c: 1	2.385e+02	-2.419e+02	1.362e+02	-9.888e+01	-3.985e+00	3.985e+00	-2.593e-01	2.593e-01	2.669e+00	2.463e+00	-4.161e+02	5.675e+02
El: 18 - C.c: 2	2.036e+02	-2.069e+02	1.766e+02	-1.393e+02	-2.916e+00	2.916e+00	-2.714e-01	2.714e-01	1.083e+00	2.672e+00	-3.751e+02	5.785e+02
El: 18 - C.c: 3	2.157e+02	-2.190e+02	5.972e+01	-2.241e+01	-2.819e+00	2.819e+00	-1.596e-01	1.596e-01	1.873e+00	1.757e+00	-3.363e+02	3.891e+02
El: 18 - C.c: 4	1.574e+02	-1.608e+02	1.271e+02	-8.977e+01	-1.036e+00	1.036e+00	-1.797e-01	1.797e-01	-7.713e-01	2.105e+00	-2.678e+02	4.075e+02
El: 18 - C.c: 5	9.624e+01	-9.959e+01	9.503e+01	-5.773e+01	-1.654e+00	1.654e+00	-9.059e-02	9.059e-02	1.133e+00	9.965e-01	-1.829e+02	2.812e+02
El: 18 - C.c: 10	7.739e+01	-7.996e+01	7.607e+01	-4.737e+01	-1.350e+00	1.350e+00	-7.574e-02	7.574e-02	9.236e-01	8.146e-01	-1.474e+02	2.269e+02
El: 19 - C.c: 1	5.545e+02	-5.578e+02	1.160e+03	-1.123e+03	-7.405e-01	7.405e-01	-6.155e-04	6.155e-04	8.789e-01	7.468e-02	4.388e+02	1.031e+03
El: 19 - C.c: 2	4.984e+02	-5.018e+02	1.203e+03	-1.165e+03	-9.039e+00	9.039e+00	-2.617e-03	2.617e-03	8.087e+00	3.553e+00	5.365e+02	9.882e+02
El: 19 - C.c: 3	4.200e+02	-4.234e+02	7.534e+02	-7.161e+02	-5.432e-01	5.432e-01	-4.891e-04	4.891e-04	6.264e-01	7.316e-02	2.059e+02	7.403e+02
El: 19 - C.c: 4	3.267e+02	-3.300e+02	8.247e+02	-7.874e+02	-1.437e+01	1.437e+01	-3.825e-03	3.825e-03	1.264e+01	5.870e+00	3.687e+02	6.693e+02
El: 19 - C.c: 5	2.265e+02	-2.298e+02	5.431e+02	-5.058e+02	-4.710e-01	4.710e-01	-4.165e-04	4.165e-04	5.054e-01	1.012e-01	2.379e+02	4.375e+02
El: 19 - C.c: 10	1.843e+02	-1.869e+02	4.411e+02	-4.124e+02	-3.730e-01	3.730e-01	-3.278e-04	3.278e-04	4.031e-01	7.735e-02	1.935e+02	3.561e+02
El: 20 - C.c: 1	2.564e+02	-2.597e+02	4.325e+02	-3.952e+02	-3.266e+00	3.266e+00	-7.195e-01	7.195e-01	1.852e+00	2.354e+00	1.275e+02	4.054e+02
El: 20 - C.c: 2	2.137e+02	-2.170e+02	4.727e+02	-4.354e+02	-9.527e+00	9.527e+00	-7.318e-01	7.318e-01	7.387e+00	4.882e+00	2.206e+02	3.641e+02
El: 20 - C.c: 3	2.153e+02	-2.186e+02	2.701e+02	-2.328e+02	-2.388e+00	2.388e+00	-4.846e-01	4.846e-01	1.395e+00	1.681e+00	-5.292e+00	3.291e+02
El: 20 - C.c: 4	1.440e+02	-1.474e+02	3.370e+02	-2.997e+02	-1.282e+01	1.282e+01	-5.050e-01	5.050e-01	1.062e+01	5.893e+00	1.498e+02	2.602e+02
El: 20 - C.c: 5	1.056e+02	-1.090e+02	2.423e+02	-2.050e+02	-1.144e+00	1.144e+00	-3.199e-01	3.199e-01	5.330e-01	9.399e-01	1.099e+02	1.782e+02
El: 20 - C.c: 10	8.529e+01	-8.786e+01	1.946e+02	-1.660e+02	-9.452e-01	9.452e-01	-2.604e-01	2.604e-01	4.482e-01	7.691e-01	8.864e+01	1.435e+02
El: 21 - C.c: 1	4.872e+02	-4.893e+02	1.952e+03	-1.929e+03	6.630e+00	-6.630e+00	8.144e-02	-8.144e-02	-3.426e+00	-1.797e+00	1.942e+03	-4.139e+02
El: 21 - C.c: 2	4.295e+02	-4.316e+02	1.995e+03	-1.973e+03	3.532e+01	-3.532e+01	2.347e-01	-2.347e-01	-1.853e+01	-9.298e+00	2.074e+03	-5.111e+02
El: 21 - C.c: 3	3.751e+02	-3.771e+02	1.285e+03	-1.262e+03	4.547e+00	-4.547e+00	6.235e-02	-6.235e-02	-2.347e+00	-1.235e+00	1.193e+03	-1.895e+02
El: 21 - C.c: 4	2.789e+02	-2.809e+02	1.358e+03	-1.335e+03	5.237e+01	-5.237e+01	3.178e-01	-3.178e-01	-2.752e+01	-1.374e+01	1.412e+03	-3.516e+02
El: 21 - C.c: 5	1.975e+02	-1.995e+02	8.836e+02	-8.608e+02	3.256e+00	-3.256e+00	2.019e-02	-2.019e-02	-1.692e+00	-8.730e-01	9.145e+02	-2.274e+02
El: 21 - C.c: 10	1.606e+02	-1.622e+02	7.191e+02	-7.015e+02	2.628e+00	-2.628e+00	1.724e-02	-1.724e-02	-1.365e+00	-7.051e-01	7.445e+02	-1.849e+02
El: 22 - C.c: 1	2.309e+02	-2.329e+02	6.987e+02	-6.758e+02	-6.027e+00	6.027e+00	-3.096e+00	3.096e+00	1.512e+00	3.237e+00	6.815e+02	-1.401e+02
El: 22 - C.c: 2	1.888e+02	-1.908e+02	7.383e+02	-7.155e+02	1.831e+01	-1.831e+01	-2.875e+00	2.875e+00	-1.111e+01	-3.316e+00	8.060e+02	-2.334e+02
El: 22 - C.c: 3	1.976e+02	-1.997e+02	4.539e+02	-4.311e+02	-3.740e+00	3.740e+00	-2.043e+00	2.043e+00	8.110e-01	2.135e+00	3.515e+02	-2.949e+00
El: 22 - C.c: 4	1.274e+02	-1.295e+02	5.200e+02	-4.972e+02	3.682e+01	-3.682e+01	-1.674e+00	1.674e+00	-2.022e+01	-8.786e+00	5.591e+02	-1.584e+02
El: 22 - C.c: 5	9.391e+01	-9.595e+01	3.656e+02	-3.428e+02	-3.528e+00	3.528e+00	-1.271e+00	1.271e+00	1.226e+00	1.554e+00	3.942e+02	-1.151e+02
El: 22 - C.c: 10	7.579e+01	-7.737e+01	2.945e+02	-2.770e+02	-2.827e+00	2.827e+00	-1.043e+00	1.043e+00	9.686e-01	1.259e+00	3.181e+02	-9.296e+01
El: 23 - C.c: 1	6.610e+01	-6.740e+01	-7.824e+02	7.968e+02	-7.382e+00	7.382e+00	-1.429e-01	1.429e-01	3.553e-01	3.336e+00	9.763e+00	-4.046e+02
El: 23 - C.c: 2	6.310e+01	-6.440e+01	-7.838e+02	7.983e+02	-4.570e+01	4.570e+01	-3.659e-01	3.659e-01	4.351e+00	1.850e+01	1.024e+01	-4.058e+02
El: 23 - C.c: 3	4.346e+01	-4.476e+01	-5.170e+02	5.315e+02	-5.143e+00	5.143e+00	-1.079e-01	1.079e-01	2.582e-01	2.314e+00	6.198e+00	-2.683e+02
El: 23 - C.c: 4	3.846e+01	-3.975e+01	-5.194e+02	5.338e+02	-6.901e+01	6.901e+01	-4.796e-01	4.796e-01	6.918e+00	2.759e+01	6.992e+00	-2.703e+02
El: 23 - C.c: 5	2.745e+01	-2.875e+01	-3.233e+02	3.378e+02	-3.736e+00	3.736e+00	-3.740e-02	3.740e-02	2.301e-01	1.638e+00	4.198e+00	-1.695e+02
El: 23 - C.c: 10	2.250e+01	-2.350e+01	-2.650e+02	2.761e+02	-3.007e+00	3.007e+00	-3.178e-02	3.178e-02	1.821e-01	1.321e+00	3.437e+00	-1.387e+02
El: 24 - C.c: 1	2.316e+01	-2.446e+01	-2.367e+02	2.512e+02	-5.642e+00	5.642e+00	3.721e+00	-3.721e+00	4.950e+00	-2.130e+00	-5.126e+00	-1.168e+02
El: 24 - C.c: 2	2.518e+01	-2.648e+01	-2.359e+02	2.504e+02	-3.839e+01	3.839e+01	3.358e+00	-3.358e+00	8.593e+00	1.060e+01	-5.285e+00	-1.163e+02
El: 24 - C.c: 3	1.545e+01	-1.674e+01	-1.567e+02	1.712e+02	-4.507e+00	4.507e+00	2.469e+00	-2.469e+00	3.489e+00	-1.236e+00	-3.262e+00	-7.871e+01
El: 24 - C.c: 4	1.881e+01	-2.011e+01	-1.554e+02	1.699e+02	-5.909e+01	5.909e+01	1.864e+00	-1.864e+00	9.560e+00	1.998e+01	-3.526e+00	-7.778e+01
El: 24 - C.c: 5	9.497e+00	-1.079e+01	-9.762e+01	1.121e+02	-8.630e-01	8.630e-01	1.513e+00	-1.513e+00	1.899e+00	-1.467e+00	-2.196e+00	-5.023e+01
El: 24 - C.c: 10	7.786e+00	-8.783e+00	-8.002e+01	9.116e+01	-7.872e-01	7.872e-01	1.242e+00	-1.242e+00	1.560e+00	-1.167e+00	-1.798e+00	-4.100e+01

GRUPPO NUMERO: 3 - DESCRIZIONE: ARCARECCI

Elem./C.c.	Fx/I	Fx/J	Fy/I	Fy/J	Fz/I	Fz/J	Mx/I	Mx/J	My/I	My/J	Mz/I	Mz/J
El: 1 - C.c: 1	5.642e+00	-5.642e+00	3.926e+02	2.378e+02	1.957e+00	-1.957e+00	5.126e+00	-5.126e+00	-2.545e+00	-4.599e+00	2.867e+02	-4.148e+00
El: 1 - C.c: 2	3.839e+01	-3.839e+01	3.932e+02	2.372e+02	4.041e+00	-4.041e+00	5.285e+00	-5.285e+00	-6.489e+00	-8.259e+00	2.889e+02	-4.111e+00
El: 1 - C.c: 3	4.507e+00	-4.507e+00	2.595e+02	1.574e+02	1.407e+00	-1.407e+00	3.262e+00	-3.262e+00	-1.880e+00	-3.255e+00	1.889e+02	-2.770e+00
El: 1 - C.c: 4	5.909e+01	-5.909e+01	2.605e+02	1.564e+02	4.880e+00	-4.880e+00	3.526e+00	-3.526e+00	-8.454e+00	-9.356e+00	1.926e+02	-2.710e+00
El: 1 - C.c: 5	8.630e-01	-8.630e-01	1.622e+02	9.808e+01	7.516e-01	-7.516e-01	2.196e+00	-2.196e+00	-9.870e-01	-1.756e+00	1.188e+02	-1.677e+00
El: 1 - C.c: 10	7.872e-01	-7.872e-01	1.330e+02	8.040e+01	6.168e-01	-6.168e-01	1.798e+00	-1.798e+00	-8.078e-01	-1.443e+00	9.736e+01	-1.376e+00
El: 2 - C.c: 1	1.302e+01	-1.302e+01	3.925e+02	2.379e+02	-1.991e+00	1.991e+00	-4.636e+00	4.636e+00	2.178e+00	5.087e+00	2.866e+02	-4.516e+00
El: 2 - C.c: 2	8.409e+01	-8.409e+01	3.930e+02	2.374e+02	-3.023e+00	3.023e+00	-4.954e+00	4.954e+00	2.123e+00	8.913e+00	2.890e+02	-4.905e+00
El: 2 - C.c: 3	9.650e+00	-9.650e+00	2.594e+02	1.576e+02	-1.423e+00	1.423e+00	-2.937e+00	2.937e+00	1.613e+00	3.580e+00	1.888e+02	-3.059e+00
El: 2 - C.c: 4	1.281e+02	-1.281e+02	2.602e+02	1.567e+02	-3.144e+00	3.144e+00	-3.466e+00	3.466e+00	1.521e+00	9.955e+00	1.927e+02	-3.708e+00
El: 2 - C.c: 5	4.599e+00	-4.599e+00	1.622e+02	9.812e+01	-7.413e-01	7.413e-01	-2.002e+00	2.002e+00	7.545e-01	1.951e+00	1.188e+02	-1.818e+00
El: 2 - C.c: 10	3.794e+00	-3.794e+00	1.330e+02	8.043e+01	-6.102e-01	6.102e-01	-1.639e+00	1.639e+00	6.236e-01	1.604e+00	9.735e+01	-1.491e+00
El: 3 - C.c: 1	-2.761e+00	2.761e+00	3.859e+02	2.445e+02	1.663e+00	-1.663e+00	1.258e+01	-1.258e+01	-1.213e+00	-4.857e+00	2.610e+02	-2.821e+00
El: 3 - C.c: 2	2.783e+01	-2.783e+01	3.865e+02	2.439e+02	1.095e+00	-1.095e+00	1.279e+01	-1.279e+01	-1.348e-01	-3.864e+00	2.628e+02	-2.498e+00
El: 3 - C.c: 3	-1.352e+00	1.352e+00	2.551e+02	1.618e+02	1.191e+00	-1.191e+00	8.241e+00	-8.241e+00	-9.696e-01	-3.377e+00	1.723e+02	-1.868e+00
El: 3 - C.c: 4	4.964e+01	-4.964e+01	2.561e+02	1.608e+02	2.452e-01	-2.452e-01	8.596e+00	-8.596e+00	8.271e-01	-1.722e+00	1.753e+02	-1.328e+00
El: 3 - C.c: 5	-2.385e+00	2.385e+00	1.594e+02	1.009e+02	6.687e-01	-6.687e-01	5.270e+00	-5.270e+00	-4.473e-01	-1.993e+00	1.079e+02	-1.134e+00
El: 3 - C.c: 10	-1.882e+00	1.882e+00	1.307e+02	8.272e+01	5.468e-01	-5.468e-01	4.317e+00	-4.317e+00	-3.656e-01	-1.630e+00	8.844e+01	-9.314e-01
El: 4 - C.c: 1	4.609e+00	-4.609e+00	3.858e+02	2.446e+02	-2.040e+00	2.040e+00	-1.239e+01	1.239e+01	2.120e+00	5.326e+00	2.608e+02	-3.045e+00
El: 4 - C.c: 2	7.219e+01	-7.219e+01	3.864e+02	2.441e+02	-9.985e-01	9.985e-01	-1.266e+01	1.266e+01	1.319e+00	2.325e+00	2.625e+02	-2.793e+00
El: 4 - C.c: 3	3.738e+00	-3.738e+00	2.551e+02	1.618e+02	-1.436e+00	1.436e+00	-8.115e+00	8.115e+00	1.570e+00	3.673e+00	1.722e+02	-2.043e+00
El: 4 - C.c: 4	1.164e+02	-1.164e+02	2.559e+02	1.610e+02	2.992e-01	-2.992e-01	-8.566e+00	8.566e+00	2.357e-01	-1.328e+00	1.749e+02	-1.623e+00

Elem./C.c.	Fx/I	Fx/J	Fy/I	Fy/J	Fz/I	Fz/J	Mx/I	Mx/J	My/I	My/J	Mz/I	Mz/J
El: 4 - C.c: 5	1.342e+00	-1.342e+00	1.594e+02	1.009e+02	-8.070e-01	8.070e-01	-5.193e+00	5.193e+00	8.116e-01	2.134e+00	1.078e+02	-1.215e+00
El: 4 - C.c: 10	1.119e+00	-1.119e+00	1.306e+02	8.275e+01	-6.615e-01	6.615e-01	-4.254e+00	4.254e+00	6.649e-01	1.750e+00	8.840e+01	-9.980e-01
El: 5 - C.c: 1	-1.341e+01	1.341e+01	3.770e+02	2.534e+02	1.414e+00	-1.414e+00	1.036e+01	-1.036e+01	-2.172e-01	-4.943e+00	2.226e+02	2.981e+00
El: 5 - C.c: 2	-1.525e+01	1.525e+01	3.772e+02	2.532e+02	1.936e+00	-1.936e+00	1.062e+01	-1.062e+01	-1.190e+00	-5.877e+00	2.233e+02	2.896e+00
El: 5 - C.c: 3	-9.906e+00	9.906e+00	2.498e+02	1.671e+02	1.055e+00	-1.055e+00	6.829e+00	-6.829e+00	-3.529e-01	-3.497e+00	1.477e+02	3.330e+00
El: 5 - C.c: 4	-1.297e+01	1.297e+01	2.501e+02	1.668e+02	1.925e+00	-1.925e+00	7.254e+00	-7.254e+00	-1.974e+00	-5.053e+00	1.489e+02	3.187e+00
El: 5 - C.c: 5	-5.393e+00	5.393e+00	1.566e+02	1.037e+02	5.728e-01	-5.728e-01	4.343e+00	-4.343e+00	-5.477e-02	-2.036e+00	9.298e+01	3.620e+00
El: 5 - C.c: 10	-4.401e+00	4.401e+00	1.283e+02	8.508e+01	4.669e-01	-4.669e-01	3.556e+00	-3.556e+00	-4.135e-02	-1.663e+00	7.613e+01	2.763e+00
El: 6 - C.c: 1	-1.472e+01	1.472e+01	3.770e+02	2.534e+02	-1.735e+00	1.735e+00	-1.049e+01	1.049e+01	7.345e-01	5.598e+00	2.225e+02	2.930e+00
El: 6 - C.c: 2	-2.681e+01	2.681e+01	3.772e+02	2.532e+02	-1.592e+00	1.592e+00	-1.069e+01	1.069e+01	2.686e-01	5.541e+00	2.234e+02	2.930e+00
El: 6 - C.c: 3	-1.085e+01	1.085e+01	2.498e+02	1.671e+02	-1.263e+00	1.263e+00	-6.909e+00	6.909e+00	6.859e-01	3.923e+00	1.477e+02	3.296e+00
El: 6 - C.c: 4	-3.099e+01	3.099e+01	2.502e+02	1.667e+02	-1.024e+00	1.024e+00	-7.244e+00	7.244e+00	-9.060e-02	3.828e+00	1.491e+02	3.298e+00
El: 6 - C.c: 5	-6.113e+00	6.113e+00	1.566e+02	1.037e+02	-6.828e-01	6.828e-01	-4.387e+00	4.387e+00	2.228e-01	2.269e+00	9.297e+01	3.601e+00
El: 6 - C.c: 10	-4.977e+00	4.977e+00	1.283e+02	8.509e+01	-5.588e-01	5.588e-01	-3.593e+00	3.593e+00	1.825e-01	1.857e+00	7.612e+01	2.747e+00
El: 7 - C.c: 1	4.523e-01	-4.523e-01	3.704e+02	2.600e+02	1.140e+00	-1.140e+00	-1.527e-01	1.527e-01	5.920e-01	-4.753e+00	2.025e+02	-9.900e-01
El: 7 - C.c: 2	-1.672e-01	1.672e-01	3.704e+02	2.600e+02	1.111e+00	-1.111e+00	1.134e-01	-1.134e-01	6.131e-01	-4.669e+00	2.026e+02	-9.807e-01
El: 7 - C.c: 3	1.100e-01	-1.100e-01	2.449e+02	1.720e+02	8.527e-01	-8.527e-01	-1.177e-01	1.177e-01	2.080e-01	-3.321e+00	1.338e+02	-6.605e-01
El: 7 - C.c: 4	-9.224e-01	9.224e-01	2.450e+02	1.719e+02	8.045e-01	-8.045e-01	3.258e-01	-3.258e-01	2.432e-01	-3.180e+00	1.340e+02	-6.451e-01
El: 7 - C.c: 5	1.520e-01	-1.520e-01	1.529e+02	1.074e+02	4.313e-01	-4.313e-01	-2.271e-02	2.271e-02	3.245e-01	-1.899e+00	8.335e+01	-3.859e-01
El: 7 - C.c: 10	1.324e-01	-1.324e-01	1.253e+02	8.806e+01	3.535e-01	-3.535e-01	-2.094e-02	2.094e-02	2.657e-01	-1.556e+00	6.834e+01	-3.177e-01
El: 8 - C.c: 1	-3.602e-01	3.602e-01	3.704e+02	2.601e+02	-1.582e+00	1.582e+00	-5.888e-02	5.888e-02	2.501e-01	5.523e+00	2.024e+02	-1.059e+00
El: 8 - C.c: 2	1.994e+00	-1.994e+00	3.704e+02	2.600e+02	-1.525e+00	1.525e+00	-2.250e-01	2.250e-01	1.871e-01	5.379e+00	2.025e+02	-1.046e+00
El: 8 - C.c: 3	-3.904e-01	3.904e-01	2.449e+02	1.720e+02	-1.144e+00	1.144e+00	-1.933e-02	1.933e-02	3.476e-01	3.830e+00	1.337e+02	-7.062e-01
El: 8 - C.c: 4	3.533e+00	-3.533e+00	2.450e+02	1.719e+02	-1.050e+00	1.050e+00	-2.961e-01	2.961e-01	2.427e-01	3.589e+00	1.339e+02	-6.845e-01
El: 8 - C.c: 5	-1.752e-01	1.752e-01	1.529e+02	1.074e+02	-6.042e-01	6.042e-01	-5.496e-02	5.496e-02	7.781e-03	2.197e+00	8.332e+01	-4.126e-01
El: 8 - C.c: 10	-1.374e-01	1.374e-01	1.253e+02	8.807e+01	-4.958e-01	4.958e-01	-4.348e-02	4.348e-02	7.812e-03	1.802e+00	6.832e+01	-3.398e-01
El: 9 - C.c: 1	-4.862e+00	4.862e+00	3.756e+02	2.549e+02	1.160e+00	-1.160e+00	-1.059e+01	1.059e+01	1.376e-01	-4.373e+00	2.210e+02	-7.841e-01
El: 9 - C.c: 2	4.487e+00	-4.487e+00	3.754e+02	2.550e+02	1.337e+00	-1.337e+00	-1.034e+01	1.034e+01	-1.866e-02	-4.862e+00	2.204e+02	-8.327e-01
El: 9 - C.c: 3	-2.392e+00	2.392e+00	2.484e+02	1.686e+02	8.831e-01	-8.831e-01	-7.070e+00	7.070e+00	-1.138e-01	-3.110e+00	1.462e+02	-5.413e-01
El: 9 - C.c: 4	1.319e+01	-1.319e+01	2.481e+02	1.688e+02	1.178e+00	-1.178e+00	-6.648e+00	6.648e+00	-3.742e-01	-3.925e+00	1.452e+02	-6.223e-01
El: 9 - C.c: 5	-2.277e+00	2.277e+00	1.550e+02	1.053e+02	4.317e-01	-4.317e-01	-4.386e+00	4.386e+00	1.451e-01	-1.721e+00	9.096e+01	-3.183e-01
El: 9 - C.c: 10	-1.871e+00	1.871e+00	1.271e+02	8.633e+01	3.539e-01	-3.539e-01	-3.592e+00	3.592e+00	1.187e-01	-1.410e+00	7.459e+01	-2.607e-01
El: 10 - C.c: 1	1.133e+00	-1.133e+00	3.755e+02	2.549e+02	-1.704e+00	1.704e+00	1.052e+01	-1.052e+01	6.724e-01	5.545e+00	2.210e+02	-8.990e-01
El: 10 - C.c: 2	2.147e+00	-2.147e+00	3.753e+02	2.551e+02	-1.756e+00	1.756e+00	1.034e+01	-1.034e+01	7.885e-01	5.619e+00	2.204e+02	-9.070e-01
El: 10 - C.c: 3	1.424e+00	-1.424e+00	2.483e+02	1.686e+02	-1.240e+00	1.240e+00	7.023e+00	-7.023e+00	6.496e-01	3.877e+00	1.461e+02	-6.167e-01
El: 10 - C.c: 4	3.113e+00	-3.113e+00	2.480e+02	1.689e+02	-1.327e+00	1.327e+00	6.737e+00	-6.737e+00	8.432e-01	4.000e+00	1.451e+02	-6.302e-01
El: 10 - C.c: 5	2.728e-01	-2.728e-01	1.550e+02	1.053e+02	-6.466e-01	6.466e-01	4.361e+00	-4.361e+00	1.692e-01	2.191e+00	9.093e+01	-3.642e-01
El: 10 - C.c: 10	2.179e-01	-2.179e-01	1.270e+02	8.635e+01	-5.307e-01	5.307e-01	3.571e+00	-3.571e+00	1.404e-01	1.797e+00	7.456e+01	-2.984e-01
El: 11 - C.c: 1	-2.173e+00	2.173e+00	2.444e+02	3.861e+02	-2.420e+00	2.420e+00	1.270e+01	-1.270e+01	5.894e+00	2.938e+00	2.932e+00	-2.616e+02
El: 11 - C.c: 2	-1.632e+01	1.632e+01	2.447e+02	3.858e+02	-1.523e+00	1.523e+00	1.249e+01	-1.249e+01	4.401e+00	1.159e+00	2.914e+00	-2.604e+02
El: 11 - C.c: 3	-4.943e+00	4.943e+00	1.615e+02	2.554e+02	-1.635e+00	1.635e+00	8.532e+00	-8.532e+00	3.923e+00	2.046e+00	1.929e+00	-1.733e+02
El: 11 - C.c: 4	-2.852e+01	2.852e+01	1.620e+02	2.549e+02	-1.412e-01	1.412e-01	8.175e+00	-8.175e+00	1.434e+00	-9.192e-01	1.900e+00	-1.714e+02
El: 11 - C.c: 5	1.582e-01	-1.582e-01	1.010e+02	1.594e+02	-9.729e-01	9.729e-01	5.265e+00	-5.265e+00	2.397e+00	1.154e+00	1.199e+00	-1.078e+02
El: 11 - C.c: 10	1.564e-01	-1.564e-01	8.275e+01	1.306e+02	-7.983e-01	7.983e-01	4.311e+00	-4.311e+00	1.967e+00	9.471e-01	9.838e-01	-8.838e+01
El: 12 - C.c: 1	2.130e+01	-2.130e+01	3.861e+02	2.443e+02	1.404e+00	-1.404e+00	-1.241e+01	1.241e+01	-3.999e-01	-4.723e+00	2.618e+02	-2.954e+00
El: 12 - C.c: 2	-2.154e+01	2.154e+01	3.858e+02	2.447e+02	1.336e+00	-1.336e+00	-1.220e+01	1.220e+01	-9.746e-01	-3.903e+00	2.604e+02	-2.905e+00
El: 12 - C.c: 3	1.002e+01	-1.002e+01	2.554e+02	1.615e+02	9.790e-01	-9.790e-01	-8.340e+00	8.340e+00	-4.127e-01	-3.161e+00	1.735e+02	-1.920e+00
El: 12 - C.c: 4	-6.138e+01	6.138e+01	2.549e+02	1.620e+02	8.669e-01	-8.669e-01	-7.986e+00	7.986e+00	-1.370e+00	-1.794e+00	1.713e+02	-1.838e+00
El: 12 - C.c: 5	1.028e+01	-1.028e+01	1.594e+02	1.009e+02	5.539e-01	-5.539e-01	-5.149e+00	5.149e+00	-9.393e-02	-1.928e+00	1.079e+02	-1.224e+00
El: 12 - C.c: 10	8.442e+00	-8.442e+00	1.306e+02	8.274e+01	4.544e-01	-4.544e-01	-4.216e+00	4.216e+00	-7.771e-02	-1.581e+00	8.843e+01	-1.004e+00
El: 13 - C.c: 1	-9.130e+00	9.130e+00	2.375e+02	3.929e+02	-1.504e+00	1.504e+00	5.126e+00	-5.126e+00	4.460e+00	1.030e+00	4.126e+00	-2.876e+02
El: 13 - C.c: 2	-2.488e+01	2.488e+01	2.383e+02	3.922e+02	-2.451e+00	2.451e+00	4.878e+00	-4.878e+00	5.937e+00	3.011e+00	4.463e+00	-2.854e+02
El: 13 - C.c: 3	-1.003e+01	1.003e+01	1.569e+02	2.600e+02	-1.221e+00	1.221e+00	3.544e+00	-3.544e+00	3.400e+00	1.058e+00	2.741e+00	-1.910e+02
El: 13 - C.c: 4	-3.629e+01	3.629e+01	1.580e+02	2.589e+02	-2.800e+00	2.800e+00	3.130e+00	-3.130e+00	5.861e+00	4.360e+00	3.302e+00	-1.873e+02
El: 13 - C.c: 5	-2.516e+00	2.516e+00	9.815e+01	1.622e+02	-5.304e-01	5.304e-01	2.082e+00	-2.082e+00	1.671e+00	2.650e-01	1.679e+00	-1.185e+02
El: 13 - C.c: 10	-2.036e+00	2.036e+00	8.045e+01	1.329e+02	-4.346e-01	4.346e-01	1.705e+00	-1.705e+00	1.369e+00	2.176e-01	1.378e+00	-9.715e+01
El: 14 - C.c: 1	1.440e+01	-1.440e+01	3.928e+02	2.376e+02	1.448e+00	-1.448e+00	-4.504e+00	4.504e+00	-2.288e+00	-2.998e+00	2.874e+02	-4.223e+00
El: 14 - C.c: 2	-3.029e+01	3.029e+01	3.922e+02	2.383e+02	2.268e+00	-2.268e+00	-4.341e+00	4.341e+00	-2.391e+00	-5.888e+00	2.854e+02	-4.551e+00
El: 14 - C.c: 3	4.908e+00	-4.908e+00	2.600e+02	1.569e+02	1.182e+00	-1.182e+00	-3.132e+00	3.132e+00	-1.851e+00	-2.462e+00	1.909e+02	-2.768e+00
El: 14 - C.c: 4	-6.958e+01	6.958e+01	2.589e+02	1.580e+02	2.548e+00	-2.548e+00	-2.860e+00	2.860e+00	-2.022e+00	-7.279e+00	1.876e+02	-3.314e+00
El: 14 - C.c: 5	7.662e+00	-7.662e+00	1.621e+02	9.819e+01	5.165e-01	-5.165e-01	-1.838e+00	1.838e+00	-8.268e-01	-1.058e+00	1.184e+02	-1.741e+00
El: 14 - C.c: 10	6.293e+00	-6.293e+00	1.329e+02	8.049e+01	4.226e-01	-4.226e-01	-1.504e+00	1.504e+00	-6.763e-01	-8.664e-01	9.707e+01	-1.428e+00

GRUPPO NUMERO: 4 - DESCRIZIONE: CONTROVENTI

Elem./C.c.	Fx/I	Fx/J	Fy/I	Fy/J	Fz/I	Fz/J	Mx/I	Mx/J	My/I	My/J	Mz/I	Mz/J
El: 1 - C.c: 1	9.686e+01	-8.467e+01	5.851e+00	5.851e+00	-4.207e-02	4.207e-02	4.186e-02	-4.186e-02	5.182e-02	1.698e-01	5.140e+00	-5.139e+00
El: 1 - C.c: 2	3.774e+02	-3.652e+02	5.840e+00	5.861e+00	-5.375e-02	5.375e-02	4.100e-02	-4.100e-02	8.764e-02	1.956e-01	5.120e+00	-5.176e+00
El: 1 - C.c: 3	6.865e+01	-5.646e+01	5.851e+00	5.851e+00	-1.448e-02	1.448e-02	3.175e-02	-3.175e-02	-6.332e-03	8.262e-02	5.139e+00	-5.138e+00
El: 1 - C.c: 4	5.362e+02	-5.240e+02	5.833e+00	5.869e+00	-3.396e-02	3.396e-02	3.032e-02	-3.032e-02	5.337e-02	1.256e-01	5.106e+00	-5.201e+00
El: 1 - C.c: 5	4.512e+01	-3.294e+01	5.852e+00	5.850e+00	-2.502e-02	2.502e-02	1.776e-02	-1.776e-02	4.094e-02	9.087e-02	5.141e+00	-5.136e+00
El: 1 - C.c: 10	3.650e+01	-2.713e+01	4.501e+00	4.500e+00	-2.036e-02	2.036e-02	1.441e-02	-1.441e-02	3.336e-02	7.390e-02	3.954e+00	-3.951e+00

Elem./C.c.	Fx/I	Fx/J	Fy/I	Fy/J	Fz/I	Fz/J	Mx/I	Mx/J	My/I	My/J	Mz/I	Mz/J
El: 2 - C.c: 1	1.321e+01	-1.031e+00	5.849e+00	5.852e+00	6.043e-03	-6.043e-03	-2.229e-02	2.229e-02	1.204e-02	-4.388e-02	5.130e+00	-5.138e+00
El: 2 - C.c: 2	-2.691e+02	2.813e+02	5.865e+00	5.837e+00	1.833e-02	-1.833e-02	-1.932e-02	1.932e-02	-2.061e-02	-7.600e-02	5.164e+00	-5.090e+00
El: 2 - C.c: 3	1.052e+01	1.662e+00	5.850e+00	5.852e+00	-5.569e-03	5.569e-03	-1.753e-02	1.753e-02	3.704e-02	-7.700e-03	5.132e+00	-5.138e+00
El: 2 - C.c: 4	-4.600e+02	4.721e+02	5.876e+00	5.826e+00	1.492e-02	-1.492e-02	-1.258e-02	1.258e-02	-1.738e-02	-6.123e-02	5.187e+00	-5.058e+00
El: 2 - C.c: 5	1.373e+01	-1.552e+00	5.851e+00	5.851e+00	8.330e-03	-8.330e-03	-1.013e-02	1.013e-02	-9.107e-03	-3.478e-02	5.137e+00	-5.136e+00
El: 2 - C.c: 10	1.063e+01	-1.261e+00	4.501e+00	4.501e+00	6.696e-03	-6.696e-03	-8.157e-03	8.157e-03	-7.317e-03	-2.796e-02	3.951e+00	-3.951e+00
El: 3 - C.c: 1	-2.117e+00	1.238e+01	5.850e+00	5.852e+00	1.997e-02	-1.997e-02	-2.027e-02	2.027e-02	-3.029e-02	-6.666e-02	4.728e+00	-4.732e+00
El: 3 - C.c: 2	2.344e+02	-2.242e+02	5.839e+00	5.863e+00	9.921e-03	-9.921e-03	-2.513e-02	2.513e-02	1.056e-03	-4.921e-02	4.705e+00	-4.762e+00
El: 3 - C.c: 3	2.901e+00	7.358e+00	5.851e+00	5.850e+00	2.430e-02	-2.430e-02	-9.404e-03	9.404e-03	-5.164e-02	-6.630e-02	4.732e+00	-4.730e+00
El: 3 - C.c: 4	3.972e+02	-3.869e+02	5.834e+00	5.868e+00	7.543e-03	-7.543e-03	-1.750e-02	1.750e-02	6.073e-04	-3.722e-02	4.695e+00	-4.779e+00
El: 3 - C.c: 5	5.442e+00	4.817e+00	5.851e+00	5.851e+00	5.122e-03	-5.122e-03	-1.250e-02	1.250e-02	-1.789e-04	-2.468e-02	4.731e+00	-4.732e+00
El: 3 - C.c: 10	3.899e+00	3.992e+00	4.501e+00	4.501e+00	4.099e-03	-4.099e-03	-1.007e-02	1.007e-02	-1.013e-04	-1.980e-02	3.639e+00	-3.640e+00
El: 4 - C.c: 1	7.547e+01	-6.521e+01	5.852e+00	5.850e+00	-6.317e-02	6.317e-02	3.903e-02	-3.903e-02	1.055e-01	2.011e-01	4.737e+00	-4.733e+00
El: 4 - C.c: 2	-1.420e+02	1.523e+02	5.858e+00	5.844e+00	-4.800e-02	4.800e-02	4.551e-02	-4.551e-02	6.208e-02	1.709e-01	4.747e+00	-4.712e+00
El: 4 - C.c: 3	4.965e+01	-3.939e+01	5.852e+00	5.849e+00	-5.757e-02	5.757e-02	2.024e-02	-2.024e-02	1.146e-01	1.649e-01	4.738e+00	-4.731e+00
El: 4 - C.c: 4	-3.128e+02	3.231e+02	5.863e+00	5.839e+00	-3.230e-02	3.230e-02	3.105e-02	-3.105e-02	4.217e-02	1.146e-01	4.755e+00	-4.697e+00
El: 4 - C.c: 5	3.751e+01	-2.725e+01	5.852e+00	5.850e+00	-2.127e-02	2.127e-02	2.101e-02	-2.101e-02	2.637e-02	7.685e-02	4.736e+00	-4.732e+00
El: 4 - C.c: 10	3.031e+01	-2.242e+01	4.501e+00	4.500e+00	-1.732e-02	1.732e-02	1.704e-02	-1.704e-02	2.153e-02	6.252e-02	3.643e+00	-3.640e+00
El: 5 - C.c: 1	1.999e+01	-1.970e+01	3.324e+00	3.266e+00	2.008e-03	-2.008e-03	2.270e-02	-2.270e-02	-5.136e-03	-3.294e-03	2.382e+00	-2.261e+00
El: 5 - C.c: 2	-1.917e+01	1.946e+01	3.325e+00	3.265e+00	1.933e-03	-1.933e-03	1.844e-02	-1.844e-02	-4.960e-03	-3.156e-03	2.383e+00	-2.256e+00
El: 5 - C.c: 3	1.929e+01	-1.900e+01	3.315e+00	3.275e+00	1.164e-03	-1.164e-03	1.876e-02	-1.876e-02	-3.242e-03	-1.647e-03	2.361e+00	-2.277e+00
El: 5 - C.c: 4	-4.599e+01	4.628e+01	3.317e+00	3.273e+00	1.040e-03	-1.040e-03	1.167e-02	-1.167e-02	-2.950e-03	-1.417e-03	2.362e+00	-2.269e+00
El: 5 - C.c: 5	4.982e+00	-4.691e+00	3.307e+00	3.283e+00	9.383e-04	-9.383e-04	8.252e-03	-8.252e-03	-2.278e-03	-1.661e-03	2.337e+00	-2.286e+00
El: 5 - C.c: 10	4.138e+00	-3.915e+00	2.544e+00	2.525e+00	7.662e-04	-7.662e-04	6.735e-03	-6.735e-03	-1.861e-03	-1.356e-03	1.799e+00	-1.757e+00
El: 6 - C.c: 1	1.176e+00	-8.147e-01	3.516e+00	3.492e+00	-4.783e-04	4.783e-04	6.020e-03	-6.020e-03	-4.003e-03	6.140e-03	2.565e+00	-2.512e+00
El: 6 - C.c: 2	5.901e+00	-5.540e+00	3.515e+00	3.493e+00	-6.788e-04	6.788e-04	6.254e-03	-6.254e-03	-3.613e-03	6.646e-03	2.562e+00	-2.514e+00
El: 6 - C.c: 3	-8.888e+00	9.249e+00	3.513e+00	3.495e+00	-4.897e-04	4.897e-04	4.337e-03	-4.337e-03	-2.301e-03	4.489e-03	2.581e+00	-2.542e+00
El: 6 - C.c: 4	-1.013e+00	1.374e+00	3.511e+00	3.497e+00	-8.239e-04	8.239e-04	4.726e-03	-4.726e-03	-1.651e-03	5.332e-03	2.577e+00	-2.546e+00
El: 6 - C.c: 5	5.986e+00	-5.625e+00	3.509e+00	3.499e+00	-1.289e-04	1.289e-04	3.803e-03	-3.803e-03	-1.927e-03	2.503e-03	2.589e+00	-2.567e+00
El: 6 - C.c: 10	4.800e+00	-4.523e+00	2.700e+00	2.692e+00	-1.055e-04	1.055e-04	3.016e-03	-3.016e-03	-1.571e-03	2.042e-03	1.991e+00	-1.973e+00
El: 7 - C.c: 1	1.544e+01	-1.515e+01	3.230e+00	3.360e+00	-4.823e-03	4.823e-03	1.569e-02	-1.569e-02	1.435e-02	5.904e-03	2.114e+00	-2.387e+00
El: 7 - C.c: 2	1.161e+01	-1.132e+01	3.231e+00	3.359e+00	-4.177e-03	4.177e-03	1.885e-02	-1.885e-02	1.359e-02	3.949e-03	2.117e+00	-2.385e+00
El: 7 - C.c: 3	2.060e+01	-2.031e+01	3.252e+00	3.338e+00	-3.324e-03	3.324e-03	8.037e-03	-8.037e-03	9.935e-03	4.021e-03	2.177e+00	-2.357e+00
El: 7 - C.c: 4	1.422e+01	-1.393e+01	3.254e+00	3.335e+00	-2.248e-03	2.248e-03	1.329e-02	-1.329e-02	8.678e-03	7.618e-04	2.183e+00	-2.353e+00
El: 7 - C.c: 5	1.591e+00	-1.300e+00	3.266e+00	3.323e+00	-2.021e-03	2.021e-03	7.921e-03	-7.921e-03	5.931e-03	2.557e-03	2.224e+00	-2.344e+00
El: 7 - C.c: 10	1.340e+00	-1.116e+00	2.511e+00	2.558e+00	-1.651e-03	1.651e-03	6.459e-03	-6.459e-03	4.848e-03	2.084e-03	1.707e+00	-1.804e+00
El: 8 - C.c: 1	-3.252e+01	3.223e+01	3.362e+00	3.227e+00	4.774e-03	-4.774e-03	-1.506e-02	1.506e-02	-6.175e-03	-1.387e-02	2.394e+00	-2.111e+00
El: 8 - C.c: 2	-2.944e+01	2.915e+01	3.366e+00	3.224e+00	6.206e-03	-6.206e-03	-1.664e-02	1.664e-02	-9.673e-03	-1.639e-02	2.405e+00	-2.107e+00
El: 8 - C.c: 3	-1.115e+01	1.086e+01	3.340e+00	3.250e+00	3.321e-03	-3.321e-03	-7.534e-03	7.534e-03	-4.277e-03	-9.665e-03	2.363e+00	-2.174e+00
El: 8 - C.c: 4	-6.017e+00	5.726e+00	3.345e+00	3.244e+00	5.706e-03	-5.706e-03	-1.016e-02	1.016e-02	-1.011e-02	-1.385e-02	2.381e+00	-2.169e+00
El: 8 - C.c: 5	-1.728e+01	1.698e+01	3.324e+00	3.266e+00	2.013e-03	-2.013e-03	-7.787e-03	7.787e-03	-2.683e-03	-5.769e-03	2.345e+00	-2.223e+00
El: 8 - C.c: 10	-1.419e+01	1.397e+01	2.558e+00	2.511e+00	1.642e-03	-1.642e-03	-6.343e-03	6.343e-03	-2.185e-03	-4.712e-03	1.806e+00	-1.706e+00
El: 9 - C.c: 1	5.156e+01	-5.192e+01	3.492e+00	3.516e+00	2.006e-04	-2.006e-04	-6.067e-03	6.067e-03	-5.432e-03	4.536e-03	2.511e+00	-2.564e+00
El: 9 - C.c: 2	4.156e+01	-4.192e+01	3.493e+00	3.515e+00	4.212e-04	-4.212e-04	-6.282e-03	6.282e-03	-6.254e-03	4.372e-03	2.514e+00	-2.562e+00
El: 9 - C.c: 3	2.418e+01	-2.454e+01	3.495e+00	3.513e+00	3.039e-04	-3.039e-04	-4.366e-03	4.366e-03	-4.020e-03	2.662e-03	2.541e+00	-2.581e+00
El: 9 - C.c: 4	7.521e+00	-7.882e+00	3.497e+00	3.511e+00	6.716e-04	-6.716e-04	-4.725e-03	4.725e-03	-5.389e-03	2.389e-03	2.546e+00	-2.577e+00
El: 9 - C.c: 5	2.527e+01	-2.563e+01	3.499e+00	3.509e+00	3.128e-05	-3.128e-05	-3.819e-03	3.819e-03	-2.249e-03	2.109e-03	2.567e+00	-2.589e+00
El: 9 - C.c: 10	2.072e+01	-2.100e+01	2.692e+00	2.699e+00	2.433e-05	-2.433e-05	-3.029e-03	3.029e-03	-1.831e-03	1.722e-03	1.973e+00	-1.990e+00
El: 10 - C.c: 1	-2.577e+01	2.548e+01	3.264e+00	3.325e+00	-3.174e-03	3.174e-03	-2.122e-02	2.122e-02	5.124e-03	8.202e-03	2.258e+00	-2.386e+00
El: 10 - C.c: 2	-5.485e+01	5.456e+01	3.264e+00	3.325e+00	-2.234e-03	2.234e-03	-1.756e-02	1.756e-02	4.039e-03	5.341e-03	2.255e+00	-2.383e+00
El: 10 - C.c: 3	-1.101e+01	1.072e+01	3.274e+00	3.315e+00	-1.891e-03	1.891e-03	-1.791e-02	1.791e-02	2.800e-03	5.139e-03	2.276e+00	-2.362e+00
El: 10 - C.c: 4	-5.948e+01	5.919e+01	3.274e+00	3.315e+00	-3.240e-04	3.240e-04	-1.181e-02	1.181e-02	9.911e-04	3.693e-04	2.271e+00	-2.357e+00
El: 10 - C.c: 5	-1.287e+01	1.258e+01	3.282e+00	3.308e+00	-1.437e-03	1.437e-03	-7.584e-03	7.584e-03	2.427e-03	3.607e-03	2.284e+00	-2.339e+00
El: 10 - C.c: 10	-1.057e+01	1.034e+01	2.524e+00	2.545e+00	-1.175e-03	1.175e-03	-6.188e-03	6.188e-03	1.985e-03	2.950e-03	1.756e+00	-1.801e+00

TABELLA MASSE ECCITATE

FREQUENZE PROPRIE DI OSCILLAZIONE

Numero	Pulsazione	Frequenza	Periodo	Precisione
1	3.849e+001	6.126e+000	1.632e-001	4.441e-016
2	5.990e+001	9.533e+000	1.049e-001	4.441e-016
3	6.438e+001	1.025e+001	9.760e-002	4.441e-016
4	6.706e+001	1.067e+001	9.369e-002	4.441e-016
5	8.389e+001	1.335e+001	7.490e-002	4.441e-016
6	8.542e+001	1.360e+001	7.355e-002	4.441e-016
7	1.098e+002	1.748e+001	5.722e-002	4.441e-016
8	1.169e+002	1.861e+001	5.375e-002	4.441e-016
9	1.231e+002	1.960e+001	5.102e-002	4.441e-016
10	1.240e+002	1.974e+001	5.065e-002	4.441e-016
11	1.248e+002	1.986e+001	5.034e-002	4.441e-016
12	1.265e+002	2.014e+001	4.966e-002	4.441e-016
13	1.324e+002	2.107e+001	4.747e-002	4.441e-016
14	1.378e+002	2.192e+001	4.561e-002	4.441e-016
15	1.402e+002	2.232e+001	4.481e-002	4.441e-016
16	1.705e+002	2.714e+001	3.685e-002	4.441e-016
17	1.760e+002	2.801e+001	3.570e-002	4.441e-016
18	1.901e+002	3.026e+001	3.305e-002	4.441e-016
19	2.000e+002	3.182e+001	3.142e-002	4.441e-016
20	2.018e+002	3.211e+001	3.114e-002	4.441e-016
21	2.383e+002	3.792e+001	2.637e-002	4.441e-016
22	2.431e+002	3.869e+001	2.584e-002	4.441e-016
23	2.465e+002	3.923e+001	2.549e-002	4.441e-016
24	2.842e+002	4.524e+001	2.210e-002	4.441e-016
25	3.246e+002	5.166e+001	1.936e-002	4.441e-016
26	3.340e+002	5.315e+001	1.881e-002	4.441e-016
27	3.547e+002	5.645e+001	1.771e-002	4.441e-016
28	3.583e+002	5.703e+001	1.754e-002	4.441e-016
29	4.116e+002	6.551e+001	1.526e-002	4.441e-016
30	4.291e+002	6.829e+001	1.464e-002	4.441e-016

COEFFICIENTI DI PARTECIPAZIONE MODALE

Modo	Direz.X	Direz.Y	Direz.Z
1	1.787e+001	-4.734e-001	8.711e-001
2	3.522e-001	1.540e+001	1.116e+000
3	-6.775e-001	-6.769e+000	5.752e+000
4	-9.620e-001	1.835e+000	1.174e+001
5	-7.865e-002	2.212e+000	3.534e+000
6	-3.848e-001	-5.360e-001	1.235e+001
7	6.261e-002	2.353e+000	4.126e-001
8	3.832e-002	2.874e-001	8.622e-001
9	-2.706e-002	-1.742e+000	9.411e-001
10	-1.346e-001	2.097e-001	1.327e-001
11	6.349e-002	-3.988e-001	-4.502e-002
12	-7.613e-001	-5.680e-001	5.732e+000
13	2.250e-001	4.448e-002	3.636e+001
14	-7.930e-002	-9.161e-001	8.418e+000
15	2.618e-001	1.983e+000	4.990e+000
16	-2.068e-001	-1.051e-001	3.151e+000
17	-1.011e+000	2.716e+000	-2.838e-001
18	-7.417e-001	2.624e-002	-8.858e-002
19	7.043e-002	-2.856e-001	-5.440e-001
20	-8.780e-001	-3.002e+000	-5.420e-002
21	2.357e-001	6.685e-001	4.215e-002
22	1.743e-001	1.966e-001	2.649e-002
23	1.418e+000	-7.113e-001	5.575e-002
24	3.777e-002	-5.961e-001	8.115e-004
25	-7.153e-002	-6.920e-003	8.023e-003
26	-2.818e-003	2.222e-001	-3.609e-003
27	-8.514e-003	-6.172e-001	-2.638e-002
28	-8.421e-003	-5.576e-001	-1.003e-002

Modo	Direz.X	Direz.Y	Direz.Z
29	6.032e-001	3.878e-002	8.755e-002
30	9.707e-002	-7.086e-001	-1.022e-001

MASSA ECCITATA PER QUOTA Z MAGGIORE DI :0.00

Modo	Direz.X	%	Direz.Y	%	Direz.Z	%
Modo: 1	+3.19e+002	98	+2.24e-001	0	+6.42e-001	0
Progressiva	+3.19e+002	98	+2.24e-001	0	+6.42e-001	0
Modo: 2	+1.24e-001	0	+2.37e+002	72	+8.28e-001	0
Progressiva	+3.20e+002	98	+2.37e+002	73	+1.47e+000	0
Modo: 3	+4.59e-001	0	+4.58e+001	14	+2.02e+001	6
Progressiva	+3.20e+002	98	+2.83e+002	87	+2.16e+001	7
Modo: 4	+9.25e-001	0	+3.37e+000	1	+7.97e+001	24
Progressiva	+3.21e+002	98	+2.87e+002	88	+1.01e+002	31
Modo: 5	+6.19e-003	0	+4.89e+000	1	+4.88e+000	1
Progressiva	+3.21e+002	98	+2.91e+002	89	+1.06e+002	32
Modo: 6	+1.48e-001	0	+2.87e-001	0	+5.71e+001	17
Progressiva	+3.21e+002	98	+2.92e+002	89	+1.63e+002	50
Modo: 7	+3.92e-003	0	+5.54e+000	2	+2.37e-002	0
Progressiva	+3.21e+002	98	+2.97e+002	91	+1.63e+002	50
Modo: 8	+1.47e-003	0	+8.26e-002	0	+6.23e-002	0
Progressiva	+3.21e+002	98	+2.97e+002	91	+1.63e+002	50
Modo: 9	+7.32e-004	0	+3.04e+000	1	+4.62e-002	0
Progressiva	+3.21e+002	98	+3.00e+002	92	+1.63e+002	50
Modo: 10	+1.81e-002	0	+4.40e-002	0	+7.79e-003	0
Progressiva	+3.21e+002	98	+3.00e+002	92	+1.63e+002	50
Modo: 11	+4.03e-003	0	+1.59e-001	0	+5.31e-004	0
Progressiva	+3.21e+002	98	+3.01e+002	92	+1.63e+002	50
Modo: 12	+5.80e-001	0	+3.23e-001	0	+6.51e-001	0
Progressiva	+3.22e+002	98	+3.01e+002	92	+1.64e+002	50
Modo: 13	+5.06e-002	0	+1.98e-003	0	+7.68e+000	2
Progressiva	+3.22e+002	98	+3.01e+002	92	+1.72e+002	53
Modo: 14	+6.29e-003	0	+8.39e-001	0	+3.53e-003	0
Progressiva	+3.22e+002	98	+3.02e+002	92	+1.72e+002	53
Modo: 15	+6.86e-002	0	+3.93e+000	1	+1.30e-002	0
Progressiva	+3.22e+002	98	+3.06e+002	93	+1.72e+002	53
Modo: 16	+4.28e-002	0	+1.10e-002	0	+1.37e+000	0
Progressiva	+3.22e+002	98	+3.06e+002	93	+1.73e+002	53
Modo: 17	+1.02e+000	0	+7.38e+000	2	+1.42e-002	0
Progressiva	+3.23e+002	99	+3.13e+002	96	+1.73e+002	53
Modo: 18	+5.50e-001	0	+6.88e-004	0	+5.48e-003	0
Progressiva	+3.23e+002	99	+3.13e+002	96	+1.73e+002	53
Modo: 19	+4.96e-003	0	+8.16e-002	0	+1.07e-002	0
Progressiva	+3.23e+002	99	+3.13e+002	96	+1.73e+002	53
Modo: 20	+7.71e-001	0	+9.01e+000	3	+7.95e-003	0
Progressiva	+3.24e+002	99	+3.22e+002	98	+1.73e+002	53
Modo: 21	+5.56e-002	0	+4.47e-001	0	+3.47e-003	0
Progressiva	+3.24e+002	99	+3.23e+002	99	+1.73e+002	53
Modo: 22	+3.04e-002	0	+3.86e-002	0	+4.94e-004	0
Progressiva	+3.24e+002	99	+3.23e+002	99	+1.73e+002	53
Modo: 23	+2.01e+000	1	+5.06e-001	0	+1.27e-002	0
Progressiva	+3.26e+002	100	+3.23e+002	99	+1.73e+002	53
Modo: 24	+1.43e-003	0	+3.55e-001	0	+9.50e-005	0
Progressiva	+3.26e+002	100	+3.23e+002	99	+1.73e+002	53
Modo: 25	+5.12e-003	0	+4.79e-005	0	+3.04e-004	0
Progressiva	+3.26e+002	100	+3.23e+002	99	+1.73e+002	53
Modo: 26	+7.94e-006	0	+4.94e-002	0	+3.45e-004	0
Progressiva	+3.26e+002	100	+3.24e+002	99	+1.73e+002	53
Modo: 27	+7.25e-005	0	+3.81e-001	0	+2.29e-002	0
Progressiva	+3.26e+002	100	+3.24e+002	99	+1.73e+002	53
Modo: 28	+7.09e-005	0	+3.11e-001	0	+9.24e-003	0
Progressiva	+3.26e+002	100	+3.24e+002	99	+1.73e+002	53
Modo: 29	+3.64e-001	0	+1.50e-003	0	+4.52e-001	0
Progressiva	+3.27e+002	100	+3.24e+002	99	+1.74e+002	53

Modo	Direz.X	%	Direz.Y	%	Direz.Z	%
Modo: 30	+9.42e-003	0	+5.02e-001	0	+7.90e-001	0
Progressiva	+3.27e+002	100	+3.25e+002	99	+1.74e+002	53

MASSA TOTALE ECCITABILE

Direzione X	Direzione Y	Direzione Z
+3.27e+002	+3.27e+002	+3.27e+002

SINTESI DEI RISULTATI

(verifiche di resistenza degli elementi strutturali maggiormente sollecitati)

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Lavoro: **RIS-SLV** Intestazione lavoro: **STRUTTURA IN ACCIAIO**
Elemento: **TRAVE** Metodo di verifica: **Eurocodice 3 - NTC 2018**
Gruppo: **4** Descrizione: **CONTROVENTI**
Tabella: **Tabella Controventi**
Tipo acciaio: **S 275** Tipo asta: **Asta semplice_____**
Coeff. riduzione dell' area: **0.000** Beta piano 'yx': **0.000** Beta piano 'zx': **0.000**
Tipologia sismica: **Senza prescrizioni aggiuntive**
γM0: **1.050** γM1': **1.050** γM1'': **1.050** γM2: **1.250** γrv: **0.000** γM0 Pf: **1.000** γM1 Pf: **1.000**
Tipo collegamento: **saldato** Connessione su un solo lato Connessione sul lato corto (solo 'L')

ASTA NUM. 1 NI 5 NF 30 Lungh. 526.9 cm SEZ. Cp D= 0.020 m Area lorda: 3.14 cmq
Sollecitazioni di calcolo e di verifica Indici <= 1 : VERIFICATO

N.comb.	NSd (kg)	Classe	Anet;Aeff (cmq)	Snell.adim.	χminimo	I.R.	I.S.	Note
1	-96.9	1	3.14	0.00	1.0000	0.01	0.01	Snell.'zx'= 0
2	-377.4	1	3.14	0.00	1.0000	0.04	0.04	Snell.'zx'= 0
3	-68.7	1	3.14	0.00	1.0000	0.01	0.01	Snell.'zx'= 0
4	-536.2	1	3.14	0.00	1.0000	0.06	0.06	Snell.'zx'= 0
5A	-699.1	1	3.14	0.00	1.0000	0.08	0.08	Snell.'zx'= 0
5B	608.9	--	3.14	--	1.0000	0.07	--	
5I	-1787.8	1	3.14	0.00	1.0000	0.21	0.21	Snell.'zx'= 0
5J	1697.6	--	3.14	--	1.0000	0.20	--	
5Q	-864.9	1	3.14	0.00	1.0000	0.10	0.10	Snell.'zx'= 0
5R	774.7	--	3.14	--	1.0000	0.09	--	

ASTA NUM. 2 NI 3 NF 31 Lungh. 526.9 cm SEZ. Cp D= 0.020 m Area lorda: 3.14 cmq
Sollecitazioni di calcolo e di verifica Indici <= 1 : VERIFICATO

N.comb.	NSd (kg)	Classe	Anet;Aeff (cmq)	Snell.adim.	χminimo	I.R.	I.S.	Note
1	-13.2	1	3.14	0.00	1.0000	0.00	0.00	Snell.'zx'= 0
2	269.1	--	3.14	--	1.0000	0.03	--	
3	-10.5	1	3.14	0.00	1.0000	0.00	0.00	Snell.'zx'= 0
4	460.0	--	3.14	--	1.0000	0.05	--	
5A	-457.3	1	3.14	0.00	1.0000	0.05	0.05	Snell.'zx'= 0
5B	429.9	--	3.14	--	1.0000	0.05	--	
5I	-1207.5	1	3.14	0.00	1.0000	0.14	0.14	Snell.'zx'= 0
5J	1180.1	--	3.14	--	1.0000	0.14	--	
5Q	-588.1	1	3.14	0.00	1.0000	0.07	0.07	Snell.'zx'= 0
5R	560.7	--	3.14	--	1.0000	0.07	--	

ASTA NUM. 3 NI 4 NF 8 Lungh. 485.4 cm SEZ. Cp D= 0.020 m Area lorda: 3.14 cmq
Sollecitazioni di calcolo e di verifica Indici <= 1 : VERIFICATO

N.comb.	NSd (kg)	Classe	Anet;Aeff (cmq)	Snell.adim.	χminimo	I.R.	I.S.	Note
1	2.1	--	3.14	--	1.0000	0.00	--	
2	-234.4	1	3.14	0.00	1.0000	0.03	0.03	Snell.'zx'= 0
3	-2.9	1	3.14	0.00	1.0000	0.00	0.00	Snell.'zx'= 0
4	-397.2	1	3.14	0.00	1.0000	0.05	0.05	Snell.'zx'= 0
5A	-515.7	1	3.14	0.00	1.0000	0.06	0.06	Snell.'zx'= 0
5B	504.8	--	3.14	--	1.0000	0.06	--	
5I	-1022.5	1	3.14	0.00	1.0000	0.12	0.12	Snell.'zx'= 0
5J	1011.7	--	3.14	--	1.0000	0.12	--	
5Q	-837.2	1	3.14	0.00	1.0000	0.10	0.10	Snell.'zx'= 0
5R	826.3	--	3.14	--	1.0000	0.10	--	

ASTA NUM. 4 NI 2 NF 16 Lungh. 485.4 cm SEZ. Cp D= 0.020 m Area lorda: 3.14 cmq
Sollecitazioni di calcolo e di verifica Indici <= 1 : VERIFICATO

N.comb.	NSd (kg)	Classe	Anet;Aeff (cmq)	Snell.adim.	χminimo	I.R.	I.S.	Note
1	-75.5	1	3.14	0.00	1.0000	0.01	0.01	Snell.'zx'= 0
2	142.0	--	3.14	--	1.0000	0.02	--	
3	-49.7	1	3.14	0.00	1.0000	0.01	0.01	Snell.'zx'= 0
4	312.8	--	3.14	--	1.0000	0.04	--	
5A	-394.3	1	3.14	0.00	1.0000	0.05	0.05	Snell.'zx'= 0
5B	319.3	--	3.14	--	1.0000	0.04	--	

5I	-779.0	1	3.14	0.00	1.0000	0.09	0.09	Snell.'zx'= 0
5J	704.0	--	3.14	--	1.0000	0.08	--	
5Q	-662.4	1	3.14	0.00	1.0000	0.08	0.08	Snell.'zx'= 0
5R	587.4	--	3.14	--	1.0000	0.07	--	

ASTA NUM. 5 NI 8 NF 22 Lungh. 419.9 cm SEZ. Cp D= 0.014 m Area lorda: 1.54 cmq
Sollecitazioni di calcolo e di verifica Indici <= 1 : VERIFICATO

N.comb.	NSd (kg)	Classe	Anet;Aeff (cmq)	Snell.adim.	χminimo	I.R.	I.S.	Note
1	-20.0	1	1.54	0.00	1.0000	0.00	0.00	Snell.'zx'= 0
2	19.2	--	1.54	--	1.0000	0.00	--	
3	-19.3	1	1.54	0.00	1.0000	0.00	0.00	Snell.'zx'= 0
4	46.0	--	1.54	--	1.0000	0.01	--	
5A	-436.2	1	1.54	0.00	1.0000	0.11	0.11	Snell.'zx'= 0
5B	426.2	--	1.54	--	1.0000	0.10	--	
5I	-635.9	1	1.54	0.00	1.0000	0.15	0.15	Snell.'zx'= 0
5J	625.9	--	1.54	--	1.0000	0.15	--	
5Q	-518.0	1	1.54	0.00	1.0000	0.13	0.13	Snell.'zx'= 0
5R	508.1	--	1.54	--	1.0000	0.12	--	

ASTA NUM. 6 NI 22 NF 12 Lungh. 446.7 cm SEZ. Cp D= 0.014 m Area lorda: 1.54 cmq
Sollecitazioni di calcolo e di verifica Indici <= 1 : VERIFICATO

N.comb.	NSd (kg)	Classe	Anet;Aeff (cmq)	Snell.adim.	χminimo	I.R.	I.S.	Note
1	-1.2	1	1.54	0.00	1.0000	0.00	0.00	Snell.'zx'= 0
2	-5.9	1	1.54	0.00	1.0000	0.00	0.00	Snell.'zx'= 0
3	8.9	--	1.54	--	1.0000	0.00	--	
4	1.0	--	1.54	--	1.0000	0.00	--	
5A	-378.0	1	1.54	0.00	1.0000	0.09	0.09	Snell.'zx'= 0
5B	366.0	--	1.54	--	1.0000	0.09	--	
5I	-304.1	1	1.54	0.00	1.0000	0.07	0.07	Snell.'zx'= 0
5J	292.2	--	1.54	--	1.0000	0.07	--	
5Q	-331.2	1	1.54	0.00	1.0000	0.08	0.08	Snell.'zx'= 0
5R	319.2	--	1.54	--	1.0000	0.08	--	

ASTA NUM. 7 NI 12 NF 30 Lungh. 419.9 cm SEZ. Cp D= 0.014 m Area lorda: 1.54 cmq
Sollecitazioni di calcolo e di verifica Indici <= 1 : VERIFICATO

N.comb.	NSd (kg)	Classe	Anet;Aeff (cmq)	Snell.adim.	χminimo	I.R.	I.S.	Note
1	-15.4	1	1.54	0.00	1.0000	0.00	0.00	Snell.'zx'= 0
2	-11.6	1	1.54	0.00	1.0000	0.00	0.00	Snell.'zx'= 0
3	-20.6	1	1.54	0.00	1.0000	0.01	0.01	Snell.'zx'= 0
4	-14.2	1	1.54	0.00	1.0000	0.00	0.00	Snell.'zx'= 0
5A	-460.3	1	1.54	0.00	1.0000	0.11	0.11	Snell.'zx'= 0
5B	457.1	--	1.54	--	1.0000	0.11	--	
5I	-729.1	1	1.54	0.00	1.0000	0.18	0.18	Snell.'zx'= 0
5J	725.9	--	1.54	--	1.0000	0.18	--	
5Q	-422.7	1	1.54	0.00	1.0000	0.10	0.10	Snell.'zx'= 0
5R	419.6	--	1.54	--	1.0000	0.10	--	

ASTA NUM. 8 NI 30 NF 27 Lungh. 419.9 cm SEZ. Cp D= 0.014 m Area lorda: 1.54 cmq
Sollecitazioni di calcolo e di verifica Indici <= 1 : VERIFICATO

N.comb.	NSd (kg)	Classe	Anet;Aeff (cmq)	Snell.adim.	χminimo	I.R.	I.S.	Note
1	32.5	--	1.54	--	1.0000	0.01	--	
2	29.4	--	1.54	--	1.0000	0.01	--	
3	11.1	--	1.54	--	1.0000	0.00	--	
4	6.0	--	1.54	--	1.0000	0.00	--	
5A	-454.6	1	1.54	0.00	1.0000	0.11	0.11	Snell.'zx'= 0
5B	489.2	--	1.54	--	1.0000	0.12	--	
5I	-633.9	1	1.54	0.00	1.0000	0.15	0.15	Snell.'zx'= 0
5J	668.5	--	1.54	--	1.0000	0.16	--	
5Q	-411.6	1	1.54	0.00	1.0000	0.10	0.10	Snell.'zx'= 0
5R	446.2	--	1.54	--	1.0000	0.11	--	

ASTA NUM. 9 NI 27 NF 22 Lungh. 446.7 cm SEZ. Cp D= 0.014 m Area lorda: 1.54 cmq
Sollecitazioni di calcolo e di verifica Indici <= 1 : VERIFICATO

N.comb.	NSd (kg)	Classe	Anet;Aeff (cmq)	Snell.adim.	χminimo	I.R.	I.S.	Note
1	-51.6	1	1.54	0.00	1.0000	0.01	0.01	Snell.'zx'= 0
2	-41.6	1	1.54	0.00	1.0000	0.01	0.01	Snell.'zx'= 0
3	-24.2	1	1.54	0.00	1.0000	0.01	0.01	Snell.'zx'= 0
4	-7.5	1	1.54	0.00	1.0000	0.00	0.00	Snell.'zx'= 0
5A	-401.4	1	1.54	0.00	1.0000	0.10	0.10	Snell.'zx'= 0
5B	350.9	--	1.54	--	1.0000	0.09	--	
5I	-303.6	1	1.54	0.00	1.0000	0.07	0.07	Snell.'zx'= 0
5J	253.0	--	1.54	--	1.0000	0.06	--	
5Q	-397.0	1	1.54	0.00	1.0000	0.10	0.10	Snell.'zx'= 0
5R	346.5	--	1.54	--	1.0000	0.08	--	

ASTA NUM. 10 NI 22 NF 18 Lungh. 419.9 cm SEZ. Cp D= 0.014 m Area lorda: 1.54 cmq
Sollecitazioni di calcolo e di verifica Indici <= 1 : VERIFICATO

N.comb.	NSd (kg)	Classe	Anet;Aeff (cmq)	Snell.adim.	χminimo	I.R.	I.S.	Note
1	25.8	--	1.54	--	1.0000	0.01	--	
2	54.8	--	1.54	--	1.0000	0.01	--	
3	11.0	--	1.54	--	1.0000	0.00	--	
4	59.5	--	1.54	--	1.0000	0.01	--	
5A	-300.1	1	1.54	0.00	1.0000	0.07	0.07	Snell.'zx'= 0
5B	325.9	--	1.54	--	1.0000	0.08	--	
5I	-406.9	1	1.54	0.00	1.0000	0.10	0.10	Snell.'zx'= 0
5J	432.7	--	1.54	--	1.0000	0.11	--	
5Q	-344.9	1	1.54	0.00	1.0000	0.08	0.08	Snell.'zx'= 0
5R	370.6	--	1.54	--	1.0000	0.09	--	

Lavoro: **RIS-SLV** Intestazione lavoro: **STRUTTURA IN ACCIAIO**
Elemento: **TRAVE** Metodo di verifica: **Eurocodice 3 - NTC 2018**
Gruppo: **2** Descrizione: **TRAVI PRINCIPALI**
Tabella: **Tabella travi**
Tipo acciaio: **S 275** Beta piano 'yx': **1.000** Beta piano 'zx': **1.000**
Coeff. k: **1.000** Coeff. kw: **1.000** Carico all'estradosso della trave
Coeff. riduzione dell'area: **0.000** Tipologia sismica: **Senza prescrizioni aggiuntive**
γM0: **1.050** γM1': **1.050** γM1'': **1.050** γM2: **1.250** γrv: **0.000** γM0 Pf: **1.000** γM1 Pf: **1.000**
Tipo collegamento: **bullonato** Connessione su un solo lato Connessione sul lato corto (solo 'L')
Attacco: **Anima** Più di una fila di bulloni

ASTA NUM. 1 NI 9 NF 7 Lungh. 50.0 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-23	-237	-13	0	-5	5	1	0.01	0.00	0.00	
2	0	-24	-236	-84	0	-9	5	1	0.01	0.00	0.01	
3	0	-15	-157	-10	0	-4	3	1	0.01	0.00	0.00	
4	0	-17	-156	-128	0	-10	3	1	0.01	0.00	0.01	
5A	0	-169	-155	20	0	6	4	1	0.01	0.00	0.01	
5B	0	-169	-40	20	0	6	-0	1	0.00	0.00	0.01	
5C	0	-169	-155	-29	0	-11	4	1	0.01	0.00	0.01	
5D	0	-169	-40	-29	0	-11	-0	1	0.00	0.00	0.01	
5E	0	150	-155	20	0	6	4	1	0.01	0.00	0.01	
5F	0	150	-40	20	0	6	-0	1	0.00	0.00	0.01	
5G	0	150	-155	-29	0	-11	4	1	0.01	0.00	0.01	
5H	0	150	-40	-29	0	-11	-0	1	0.00	0.00	0.01	
5I	0	-112	-141	44	0	10	5	1	0.01	0.00	0.01	
5J	0	-112	-55	44	0	10	-1	1	0.00	0.00	0.01	
5K	0	-112	-141	-53	0	-14	5	1	0.01	0.00	0.01	
5L	0	-112	-55	-53	0	-14	-1	1	0.00	0.00	0.01	
5M	0	93	-141	44	0	10	5	1	0.01	0.00	0.01	
5N	0	93	-55	44	0	10	-1	1	0.00	0.00	0.01	
5O	0	93	-141	-53	0	-14	5	1	0.01	0.00	0.01	
5P	0	93	-55	-53	0	-14	-1	1	0.00	0.00	0.01	
5Q	0	-111	-188	24	0	7	7	1	0.01	0.00	0.01	
5R	0	-111	-8	24	0	7	-3	1	0.00	0.00	0.01	
5S	0	-111	-188	-33	0	-11	7	1	0.01	0.00	0.01	
5T	0	-111	-8	-33	0	-11	-3	1	0.00	0.00	0.01	
5U	0	92	-188	24	0	7	7	1	0.01	0.00	0.01	
5V	0	92	-8	24	0	7	-3	1	0.00	0.00	0.01	
5W	0	92	-188	-33	0	-11	7	1	0.01	0.00	0.01	
5X	0	92	-8	-33	0	-11	-3	1	0.00	0.00	0.01	
1	25	-24	-244	-13	0	-2	-55	1	0.01	0.00	0.01	
2	25	-25	-243	-84	0	12	-55	1	0.01	0.00	0.01	
3	25	-16	-164	-10	0	-1	-37	1	0.01	0.00	0.01	
4	25	-18	-163	-128	0	22	-36	1	0.01	0.00	0.02	
5A	25	-170	-162	20	0	-0	-36	1	0.01	0.00	0.01	
5B	25	-170	-47	20	0	-0	-10	1	0.00	0.00	0.00	
5C	25	-170	-162	-29	0	-2	-36	1	0.01	0.00	0.01	
5D	25	-170	-47	-29	0	-2	-10	1	0.00	0.00	0.00	
5E	25	150	-162	20	0	-0	-36	1	0.01	0.00	0.01	
5F	25	150	-47	20	0	-0	-10	1	0.00	0.00	0.00	
5G	25	150	-162	-29	0	-2	-36	1	0.01	0.00	0.01	
5H	25	150	-47	-29	0	-2	-10	1	0.00	0.00	0.00	
5I	25	-112	-148	44	0	-2	-32	1	0.01	0.00	0.01	
5J	25	-112	-62	44	0	-2	-14	1	0.00	0.00	0.00	
5K	25	-112	-148	-53	0	0	-32	1	0.01	0.00	0.01	
5L	25	-112	-62	-53	0	0	-14	1	0.00	0.00	0.00	
5M	25	92	-148	44	0	-2	-32	1	0.01	0.00	0.01	
5N	25	92	-62	44	0	-2	-14	1	0.00	0.00	0.00	
5O	25	92	-148	-53	0	0	-32	1	0.01	0.00	0.01	
5P	25	92	-62	-53	0	0	-14	1	0.00	0.00	0.00	
5Q	25	-112	-195	24	0	-2	-43	1	0.01	0.00	0.01	
5R	25	-112	-15	24	0	-2	-4	1	0.00	0.00	0.00	
5S	25	-112	-195	-33	0	-0	-43	1	0.01	0.00	0.01	
5T	25	-112	-15	-33	0	-0	-4	1	0.00	0.00	0.00	
5U	25	91	-195	24	0	-2	-43	1	0.01	0.00	0.01	
5V	25	91	-15	24	0	-2	-4	1	0.00	0.00	0.00	
5W	25	91	-195	-33	0	-0	-43	1	0.01	0.00	0.01	
5X	25	91	-15	-33	0	-0	-4	1	0.00	0.00	0.00	

1	50	-25	-251	-13	0	1	-117	1	0.01	0.00	0.02
2	50	-25	-251	-84	0	33	-117	1	0.01	0.00	0.03
3	50	-17	-171	-10	0	1	-79	1	0.01	0.00	0.01
4	50	-18	-170	-128	0	54	-78	1	0.01	0.00	0.05
5A	50	-170	-170	20	0	-7	-79	1	0.01	0.00	0.01
5B	50	-170	-55	20	0	-7	-22	1	0.00	0.00	0.01
5C	50	-170	-170	-29	0	7	-79	1	0.01	0.00	0.01
5D	50	-170	-55	-29	0	7	-22	1	0.00	0.00	0.01
5E	50	149	-170	20	0	-7	-79	1	0.01	0.00	0.01
5F	50	149	-55	20	0	-7	-22	1	0.00	0.00	0.01
5G	50	149	-170	-29	0	7	-79	1	0.01	0.00	0.01
5H	50	149	-55	-29	0	7	-22	1	0.00	0.00	0.01
5I	50	-113	-155	44	0	-14	-72	1	0.01	0.00	0.01
5J	50	-113	-69	44	0	-14	-29	1	0.00	0.00	0.01
5K	50	-113	-155	-53	0	15	-72	1	0.01	0.00	0.01
5L	50	-113	-69	-53	0	15	-29	1	0.00	0.00	0.01
5M	50	91	-155	44	0	-14	-72	1	0.01	0.00	0.01
5N	50	91	-69	44	0	-14	-29	1	0.00	0.00	0.01
5O	50	91	-155	-53	0	15	-72	1	0.01	0.00	0.01
5P	50	91	-69	-53	0	15	-29	1	0.00	0.00	0.01
5Q	50	-112	-202	24	0	-11	-95	1	0.01	0.00	0.02
5R	50	-112	-22	24	0	-11	-6	1	0.00	0.00	0.01
5S	50	-112	-202	-33	0	11	-95	1	0.01	0.00	0.02
5T	50	-112	-22	-33	0	11	-6	1	0.00	0.00	0.01
5U	50	91	-202	24	0	-11	-95	1	0.01	0.00	0.02
5V	50	91	-22	24	0	-11	-6	1	0.00	0.00	0.01
5W	50	91	-202	-33	0	11	-95	1	0.01	0.00	0.02
5X	50	91	-22	-33	0	11	-6	1	0.00	0.00	0.01

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-25	-5	-117	1	0.9784	0.9998	1.0000	1.0000	1.0000	0.00	0.02	0.02	Snell. 'zx'= 22
2	-25	33	-117	1	0.9784	0.9998	1.0000	1.0000	1.0000	0.00	0.02	0.05	Snell. 'zx'= 22
3	-17	-4	-79	1	0.9784	0.9999	1.0000	1.0000	1.0000	0.00	0.01	0.02	Snell. 'zx'= 22
4	-18	54	-78	1	0.9784	0.9999	1.0000	1.0000	1.0000	0.00	0.01	0.06	Snell. 'zx'= 22
5A	-170	-7	-79	1	0.9784	0.9982	0.9998	1.0000	1.0000	0.00	0.01	0.02	Snell. 'zx'= 22
5B	-170	-7	-22	1	0.9784	0.9982	0.9998	1.0000	1.0000	0.00	0.00	0.01	Snell. 'zx'= 22
5C	-170	-11	-79	1	0.9784	0.9985	0.9998	1.0000	1.0000	0.00	0.01	0.02	Snell. 'zx'= 22
5D	-170	-11	-22	1	0.9784	0.9985	0.9998	1.0000	1.0000	0.00	0.00	0.01	Snell. 'zx'= 22
5E	150	-7	-79	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5F	150	-7	-22	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5G	150	-11	-79	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5H	150	-11	-22	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5I	-113	-14	-72	1	0.9784	0.9990	0.9998	1.0000	1.0000	0.00	0.01	0.03	Snell. 'zx'= 22
5J	-113	-14	-29	1	0.9784	0.9990	0.9999	1.0000	1.0000	0.00	0.00	0.02	Snell. 'zx'= 22
5K	-113	15	-72	1	0.9784	0.9988	0.9998	1.0000	1.0000	0.00	0.01	0.03	Snell. 'zx'= 22
5L	-113	15	-29	1	0.9784	0.9988	0.9999	1.0000	1.0000	0.00	0.00	0.02	Snell. 'zx'= 22
5M	93	-14	-72	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5N	93	-14	-29	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5O	93	15	-72	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5P	93	15	-29	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5Q	-112	-11	-95	1	0.9784	0.9990	0.9998	1.0000	1.0000	0.00	0.02	0.03	Snell. 'zx'= 22
5R	-112	-11	-6	1	0.9784	0.9990	0.9999	1.0000	0.9997	0.00	0.00	0.01	Snell. 'zx'= 22
5S	-112	-11	-95	1	0.9784	0.9988	0.9998	1.0000	1.0000	0.00	0.02	0.03	Snell. 'zx'= 22
5T	-112	-11	-6	1	0.9784	0.9988	0.9999	1.0000	0.9997	0.00	0.00	0.01	Snell. 'zx'= 22
5U	92	-11	-95	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'= 22
5V	92	-11	-6	1	0.9784	0.0000	0.0000	0.0000	0.9997	--	0.00	--	Snell. 'zx'= 22
5W	92	-11	-95	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'= 22
5X	92	-11	-6	1	0.9784	0.0000	0.0000	0.0000	0.9997	--	0.00	--	Snell. 'zx'= 22

ASTA NUM. 2 NI 7 NF 11 Lungh. 78.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-200	686	-0	0	2	-641	1	0.03	0.00	0.11	
2	0	-171	730	57	0	33	-779	1	0.03	0.00	0.13	
3	0	-177	446	0	0	1	-325	1	0.02	0.00	0.06	
4	0	-129	518	97	0	54	-555	1	0.02	0.00	0.09	
5A	0	-571	-117	13	0	7	828	1	0.01	0.01	0.14	
5B	0	-571	839	13	0	7	-1585	1	0.04	0.01	0.27	
5C	0	-571	-117	-14	0	-6	828	1	0.01	0.01	0.14	
5D	0	-571	839	-14	0	-6	-1585	1	0.04	0.01	0.27	
5E	0	407	-117	13	0	7	828	1	0.01	0.01	0.14	
5F	0	407	839	13	0	7	-1585	1	0.04	0.01	0.27	
5G	0	407	-117	-14	0	-6	828	1	0.01	0.01	0.14	

5H	0	407	839	-14	0	-6	-1585	1	0.04	0.01	0.27
5I	0	-287	66	22	0	15	239	1	0.00	0.00	0.04
5J	0	-287	655	22	0	15	-996	1	0.03	0.00	0.17
5K	0	-287	66	-23	0	-14	239	1	0.00	0.00	0.04
5L	0	-287	655	-23	0	-14	-996	1	0.03	0.00	0.17
5M	0	123	66	22	0	15	239	1	0.00	0.00	0.04
5N	0	123	655	22	0	15	-996	1	0.03	0.00	0.17
5O	0	123	66	-23	0	-14	239	1	0.00	0.00	0.04
5P	0	123	655	-23	0	-14	-996	1	0.03	0.00	0.17
5Q	0	-389	-173	22	0	11	461	1	0.01	0.01	0.08
5R	0	-389	895	22	0	11	-1218	1	0.04	0.01	0.21
5S	0	-389	-173	-23	0	-10	461	1	0.01	0.01	0.08
5T	0	-389	895	-23	0	-10	-1218	1	0.04	0.01	0.21
5U	0	225	-173	22	0	11	461	1	0.01	0.00	0.08
5V	0	225	895	22	0	11	-1218	1	0.04	0.00	0.21
5W	0	225	-173	-23	0	-10	461	1	0.01	0.00	0.08
5X	0	225	895	-23	0	-10	-1218	1	0.04	0.00	0.21
1	39	-201	675	-0	0	2	-373	1	0.03	0.00	0.06
2	39	-172	718	57	0	11	-494	1	0.03	0.00	0.08
3	39	-178	434	0	0	1	-152	1	0.02	0.00	0.03
4	39	-130	507	97	0	16	-353	1	0.02	0.00	0.06
5A	39	-572	-129	13	0	1	784	1	0.01	0.01	0.13
5B	39	-572	827	13	0	1	-1262	1	0.04	0.01	0.21
5C	39	-572	-129	-14	0	1	784	1	0.01	0.01	0.13
5D	39	-572	827	-14	0	1	-1262	1	0.04	0.01	0.21
5E	39	406	-129	13	0	1	784	1	0.01	0.01	0.13
5F	39	406	827	13	0	1	-1262	1	0.04	0.01	0.21
5G	39	406	-129	-14	0	1	784	1	0.01	0.01	0.13
5H	39	406	827	-14	0	1	-1262	1	0.04	0.01	0.21
5I	39	-288	55	22	0	3	272	1	0.00	0.00	0.05
5J	39	-288	644	22	0	3	-749	1	0.03	0.00	0.13
5K	39	-288	55	-23	0	-1	272	1	0.00	0.00	0.05
5L	39	-288	644	-23	0	-1	-749	1	0.03	0.00	0.13
5M	39	122	55	22	0	3	272	1	0.00	0.00	0.05
5N	39	122	644	22	0	3	-749	1	0.03	0.00	0.13
5O	39	122	55	-23	0	-1	272	1	0.00	0.00	0.05
5P	39	122	644	-23	0	-1	-749	1	0.03	0.00	0.13
5Q	39	-390	-185	22	0	0	402	1	0.01	0.01	0.07
5R	39	-390	884	22	0	0	-880	1	0.04	0.01	0.15
5S	39	-390	-185	-23	0	1	402	1	0.01	0.01	0.07
5T	39	-390	884	-23	0	1	-880	1	0.04	0.01	0.15
5U	39	224	-185	22	0	0	402	1	0.01	0.00	0.07
5V	39	224	884	22	0	0	-880	1	0.04	0.00	0.15
5W	39	224	-185	-23	0	1	402	1	0.01	0.00	0.07
5X	39	224	884	-23	0	1	-880	1	0.04	0.00	0.15
1	79	-202	663	-0	0	2	-110	1	0.03	0.00	0.02
2	79	-173	707	57	0	-12	-213	1	0.03	0.00	0.04
3	79	-180	423	0	0	1	17	1	0.02	0.00	0.00
4	79	-131	495	97	0	-22	-156	1	0.02	0.00	0.03
5A	79	-573	-140	13	0	-6	736	1	0.01	0.01	0.13
5B	79	-573	816	13	0	-6	-943	1	0.04	0.01	0.16
5C	79	-573	-140	-14	0	8	736	1	0.01	0.01	0.13
5D	79	-573	816	-14	0	8	-943	1	0.04	0.01	0.16
5E	79	405	-140	13	0	-6	736	1	0.01	0.01	0.13
5F	79	405	816	13	0	-6	-943	1	0.04	0.01	0.16
5G	79	405	-140	-14	0	8	736	1	0.01	0.01	0.13
5H	79	405	816	-14	0	8	-943	1	0.04	0.01	0.16
5I	79	-289	43	22	0	-9	300	1	0.00	0.00	0.05
5J	79	-289	633	22	0	-9	-506	1	0.03	0.00	0.09
5K	79	-289	43	-23	0	11	300	1	0.00	0.00	0.05
5L	79	-289	633	-23	0	11	-506	1	0.03	0.00	0.09
5M	79	121	43	22	0	-9	300	1	0.00	0.00	0.05
5N	79	121	633	22	0	-9	-506	1	0.03	0.00	0.09
5O	79	121	43	-23	0	11	300	1	0.00	0.00	0.05
5P	79	121	633	-23	0	11	-506	1	0.03	0.00	0.09
5Q	79	-391	-196	22	0	-11	339	1	0.01	0.01	0.06
5R	79	-391	872	22	0	-11	-545	1	0.04	0.01	0.09
5S	79	-391	-196	-23	0	13	339	1	0.01	0.01	0.06
5T	79	-391	872	-23	0	13	-545	1	0.04	0.01	0.09
5U	79	223	-196	22	0	-11	339	1	0.01	0.00	0.06
5V	79	223	872	22	0	-11	-545	1	0.04	0.00	0.09
5W	79	223	-196	-23	0	13	339	1	0.01	0.00	0.06
5X	79	223	872	-23	0	13	-545	1	0.04	0.00	0.09

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-202	2	-641	1	0.9219	1.0002	0.9998	1.0000	0.9827	0.00	0.11	0.11	Snell. 'zx'= 35
2	-173	33	-779	1	0.9219	0.9986	0.9999	1.0000	0.9802	0.00	0.13	0.16	Snell. 'zx'= 35
3	-180	1	-325	1	0.9219	1.0003	0.9998	1.0000	0.9877	0.00	0.06	0.06	Snell. 'zx'= 35
4	-131	54	-555	1	0.9219	0.9989	0.9999	1.0000	0.9800	0.00	0.10	0.14	Snell. 'zx'= 35

5A	-573	7	828	1	0.9219	0.9931	1.0003	1.0000	0.9662	0.01	0.15	0.15	Snell. 'zx'= 35
5B	-573	7	-1585	1	0.9219	0.9931	1.0000	1.0000	0.9729	0.01	0.28	0.28	Snell. 'zx'= 35
5C	-573	8	828	1	0.9219	0.9933	1.0003	1.0000	0.9662	0.01	0.15	0.16	Snell. 'zx'= 35
5D	-573	8	-1585	1	0.9219	0.9933	1.0000	1.0000	0.9729	0.01	0.28	0.28	Snell. 'zx'= 35
5E	407	7	828	1	0.9219	0.0000	0.0000	0.0000	0.9662	--	0.14	--	Snell. 'zx'= 35
5F	407	7	-1585	1	0.9219	0.0000	0.0000	0.0000	0.9729	--	0.27	--	Snell. 'zx'= 35
5G	407	8	828	1	0.9219	0.0000	0.0000	0.0000	0.9662	--	0.14	--	Snell. 'zx'= 35
5H	407	8	-1585	1	0.9219	0.0000	0.0000	0.0000	0.9729	--	0.27	--	Snell. 'zx'= 35
5I	-289	15	300	1	0.9219	0.9970	1.0001	1.0000	0.9682	0.00	0.05	0.07	Snell. 'zx'= 35
5J	-289	15	-996	1	0.9219	0.9970	1.0000	1.0000	0.9747	0.00	0.17	0.19	Snell. 'zx'= 35
5K	-289	-14	300	1	0.9219	0.9967	1.0001	1.0000	0.9682	0.00	0.05	0.07	Snell. 'zx'= 35
5L	-289	-14	-996	1	0.9219	0.9967	1.0000	1.0000	0.9747	0.00	0.17	0.18	Snell. 'zx'= 35
5M	123	15	300	1	0.9219	0.0000	0.0000	0.0000	0.9682	--	0.05	--	Snell. 'zx'= 35
5N	123	15	-996	1	0.9219	0.0000	0.0000	0.0000	0.9747	--	0.17	--	Snell. 'zx'= 35
5O	123	-14	300	1	0.9219	0.0000	0.0000	0.0000	0.9682	--	0.05	--	Snell. 'zx'= 35
5P	123	-14	-996	1	0.9219	0.0000	0.0000	0.0000	0.9747	--	0.17	--	Snell. 'zx'= 35
5Q	-391	11	461	1	0.9219	0.9952	1.0001	1.0000	0.9696	0.01	0.08	0.09	Snell. 'zx'= 35
5R	-391	11	-1218	1	0.9219	0.9952	0.9999	1.0000	0.9762	0.01	0.21	0.22	Snell. 'zx'= 35
5S	-391	13	461	1	0.9219	0.9954	1.0001	1.0000	0.9696	0.01	0.08	0.09	Snell. 'zx'= 35
5T	-391	13	-1218	1	0.9219	0.9954	0.9999	1.0000	0.9762	0.01	0.21	0.22	Snell. 'zx'= 35
5U	225	11	461	1	0.9219	0.0000	0.0000	0.0000	0.9696	--	0.08	--	Snell. 'zx'= 35
5V	225	11	-1218	1	0.9219	0.0000	0.0000	0.0000	0.9762	--	0.21	--	Snell. 'zx'= 35
5W	225	13	461	1	0.9219	0.0000	0.0000	0.0000	0.9696	--	0.08	--	Snell. 'zx'= 35
5X	225	13	-1218	1	0.9219	0.0000	0.0000	0.0000	0.9762	--	0.21	--	Snell. 'zx'= 35

ASTA NUM. 3 NI 11 NF 12 Lungh. 128.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-226	420	-5	0	-4	-97	1	0.02	0.00	0.02	
2	0	-196	464	-15	0	-14	-201	1	0.02	0.00	0.03	
3	0	-195	262	-4	0	-3	25	1	0.01	0.00	0.00	
4	0	-145	335	-20	0	-21	-147	1	0.02	0.00	0.02	
5A	0	-443	-218	10	0	6	742	1	0.01	0.01	0.13	
5B	0	-443	693	10	0	6	-938	1	0.03	0.01	0.16	
5C	0	-443	-218	-14	0	-9	742	1	0.01	0.01	0.13	
5D	0	-443	693	-14	0	-9	-938	1	0.03	0.01	0.16	
5E	0	255	-218	10	0	6	742	1	0.01	0.00	0.13	
5F	0	255	693	10	0	6	-938	1	0.03	0.00	0.16	
5G	0	255	-218	-14	0	-9	742	1	0.01	0.00	0.13	
5H	0	255	693	-14	0	-9	-938	1	0.03	0.00	0.16	
5I	0	-289	-33	16	0	11	307	1	0.00	0.00	0.05	
5J	0	-289	508	16	0	11	-503	1	0.02	0.00	0.09	
5K	0	-289	-33	-20	0	-14	307	1	0.00	0.00	0.05	
5L	0	-289	508	-20	0	-14	-503	1	0.02	0.00	0.09	
5M	0	101	-33	16	0	11	307	1	0.00	0.00	0.05	
5N	0	101	508	16	0	11	-503	1	0.02	0.00	0.09	
5O	0	101	-33	-20	0	-14	307	1	0.00	0.00	0.05	
5P	0	101	508	-20	0	-14	-503	1	0.02	0.00	0.09	
5Q	0	-391	-228	16	0	10	346	1	0.01	0.01	0.06	
5R	0	-391	703	16	0	10	-543	1	0.03	0.01	0.09	
5S	0	-391	-228	-20	0	-13	346	1	0.01	0.01	0.06	
5T	0	-391	703	-20	0	-13	-543	1	0.03	0.01	0.09	
5U	0	203	-228	16	0	10	346	1	0.01	0.00	0.06	
5V	0	203	703	16	0	10	-543	1	0.03	0.00	0.09	
5W	0	203	-228	-20	0	-13	346	1	0.01	0.00	0.06	
5X	0	203	703	-20	0	-13	-543	1	0.03	0.00	0.09	
1	64	-228	401	-5	0	-0	167	1	0.02	0.00	0.03	
2	64	-198	445	-15	0	-5	92	1	0.02	0.00	0.02	
3	64	-197	243	-4	0	-0	188	1	0.01	0.00	0.03	
4	64	-147	316	-20	0	-8	63	1	0.01	0.00	0.01	
5A	64	-444	-237	10	0	-2	684	1	0.01	0.01	0.12	
5B	64	-444	675	10	0	-2	-586	1	0.03	0.01	0.10	
5C	64	-444	-237	-14	0	2	684	1	0.01	0.01	0.12	
5D	64	-444	675	-14	0	2	-586	1	0.03	0.01	0.10	
5E	64	253	-237	10	0	-2	684	1	0.01	0.00	0.12	
5F	64	253	675	10	0	-2	-586	1	0.03	0.00	0.10	
5G	64	253	-237	-14	0	2	684	1	0.01	0.00	0.12	
5H	64	253	675	-14	0	2	-586	1	0.03	0.00	0.10	
5I	64	-291	-52	16	0	18	379	1	0.00	0.00	0.06	
5J	64	-291	489	16	0	18	-281	1	0.02	0.00	0.05	
5K	64	-291	-52	-20	0	-18	379	1	0.00	0.00	0.06	
5L	64	-291	489	-20	0	-18	-281	1	0.02	0.00	0.05	
5M	64	100	-52	16	0	18	379	1	0.00	0.00	0.06	
5N	64	100	489	16	0	18	-281	1	0.02	0.00	0.05	
5O	64	100	-52	-20	0	-18	379	1	0.00	0.00	0.06	
5P	64	100	489	-20	0	-18	-281	1	0.02	0.00	0.05	
5Q	64	-393	-246	16	0	-2	64	1	0.01	0.01	0.01	
5R	64	-393	684	16	0	-2	34	1	0.03	0.01	0.01	
5S	64	-393	-246	-20	0	2	64	1	0.01	0.01	0.01	
5T	64	-393	684	-20	0	2	34	1	0.03	0.01	0.01	
5U	64	201	-246	16	0	-2	64	1	0.01	0.00	0.01	
5V	64	201	684	16	0	-2	34	1	0.03	0.00	0.01	

5W	64	201	-246	-20	0	2	64	1	0.01	0.00	0.01
5X	64	201	684	-20	0	2	34	1	0.03	0.00	0.01
1	129	-230	383	-5	0	3	420	1	0.02	0.00	0.07
2	129	-199	427	-15	0	4	373	1	0.02	0.00	0.06
3	129	-199	225	-4	0	2	338	1	0.01	0.00	0.06
4	129	-149	298	-20	0	5	260	1	0.01	0.00	0.04
5A	129	-446	-256	10	0	-11	614	1	0.01	0.01	0.10
5B	129	-446	656	10	0	-11	-247	1	0.03	0.01	0.04
5C	129	-446	-256	-14	0	13	614	1	0.01	0.01	0.10
5D	129	-446	656	-14	0	13	-247	1	0.03	0.01	0.04
5E	129	252	-256	10	0	-11	614	1	0.01	0.00	0.10
5F	129	252	656	10	0	-11	-247	1	0.03	0.00	0.04
5G	129	252	-256	-14	0	13	614	1	0.01	0.00	0.10
5H	129	252	656	-14	0	13	-247	1	0.03	0.00	0.04
5I	129	-292	-70	16	0	25	439	1	0.00	0.00	0.07
5J	129	-292	471	16	0	25	-72	1	0.02	0.00	0.02
5K	129	-292	-70	-20	0	-23	439	1	0.00	0.00	0.07
5L	129	-292	471	-20	0	-23	-72	1	0.02	0.00	0.02
5M	129	98	-70	16	0	25	439	1	0.00	0.00	0.07
5N	129	98	471	16	0	25	-72	1	0.02	0.00	0.02
5O	129	98	-70	-20	0	-23	439	1	0.00	0.00	0.07
5P	129	98	471	-20	0	-23	-72	1	0.02	0.00	0.02
5Q	129	-394	-265	16	0	-15	-231	1	0.01	0.01	0.04
5R	129	-394	665	16	0	-15	598	1	0.03	0.01	0.10
5S	129	-394	-265	-20	0	17	-231	1	0.01	0.01	0.04
5T	129	-394	665	-20	0	17	598	1	0.03	0.01	0.10
5U	129	200	-265	16	0	-15	-231	1	0.01	0.00	0.04
5V	129	200	665	16	0	-15	598	1	0.03	0.00	0.10
5W	129	200	-265	-20	0	17	-231	1	0.01	0.00	0.04
5X	129	200	665	-20	0	17	598	1	0.03	0.00	0.10

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-230	-4	419	1	0.7999	0.9968	0.9997	0.9997	0.9597	0.00	0.07	0.08	Snell. 'zx'= 58
2	-199	-14	373	1	0.7999	0.9982	0.9995	0.9998	0.9684	0.00	0.07	0.08	Snell. 'zx'= 58
3	-199	-3	338	1	0.7999	0.9972	0.9999	0.9997	0.9477	0.00	0.07	0.06	Snell. 'zx'= 58
4	-149	-21	260	1	0.7999	0.9988	0.9996	0.9998	0.9687	0.00	0.05	0.06	Snell. 'zx'= 58
5A	-446	-11	742	1	0.7999	0.9941	1.0008	0.9995	0.9132	0.01	0.15	0.14	Snell. 'zx'= 58
5B	-446	-11	-938	1	0.7999	0.9941	1.0000	0.9995	0.9392	0.01	0.19	0.18	Snell. 'zx'= 58
5C	-446	13	742	1	0.7999	0.9937	1.0008	0.9994	0.9132	0.01	0.16	0.14	Snell. 'zx'= 58
5D	-446	13	-938	1	0.7999	0.9937	1.0000	0.9994	0.9392	0.01	0.19	0.18	Snell. 'zx'= 58
5E	255	-11	742	1	0.7999	0.0000	0.0000	0.0000	0.9132	--	0.14	--	Snell. 'zx'= 58
5F	255	-11	-938	1	0.7999	0.0000	0.0000	0.0000	0.9392	--	0.17	--	Snell. 'zx'= 58
5G	255	13	742	1	0.7999	0.0000	0.0000	0.0000	0.9132	--	0.14	--	Snell. 'zx'= 58
5H	255	13	-938	1	0.7999	0.0000	0.0000	0.0000	0.9392	--	0.17	--	Snell. 'zx'= 58
5I	-292	25	439	1	0.7999	1.0006	1.0004	1.0000	0.9193	0.00	0.11	0.10	Snell. 'zx'= 58
5J	-292	25	-503	1	0.7999	1.0006	0.9999	0.9999	0.9448	0.00	0.12	0.11	Snell. 'zx'= 58
5K	-292	-23	439	1	0.7999	1.0013	1.0004	1.0000	0.9193	0.00	0.10	0.10	Snell. 'zx'= 58
5L	-292	-23	-503	1	0.7999	1.0013	0.9999	0.9999	0.9448	0.00	0.11	0.11	Snell. 'zx'= 58
5M	101	25	439	1	0.7999	0.0000	0.0000	0.0000	0.9193	--	0.08	--	Snell. 'zx'= 58
5N	101	25	-503	1	0.7999	0.0000	0.0000	0.0000	0.9448	--	0.09	--	Snell. 'zx'= 58
5O	101	-23	439	1	0.7999	0.0000	0.0000	0.0000	0.9193	--	0.08	--	Snell. 'zx'= 58
5P	101	-23	-503	1	0.7999	0.0000	0.0000	0.0000	0.9448	--	0.09	--	Snell. 'zx'= 58
5Q	-394	-15	346	1	0.7999	0.9944	0.9989	0.9995	0.9700	0.01	0.06	0.08	Snell. 'zx'= 58
5R	-394	-15	598	1	0.7999	0.9944	0.9986	0.9994	0.9695	0.01	0.10	0.12	Snell. 'zx'= 58
5S	-394	17	346	1	0.7999	0.9944	0.9989	0.9995	0.9700	0.01	0.06	0.08	Snell. 'zx'= 58
5T	-394	17	598	1	0.7999	0.9944	0.9986	0.9994	0.9695	0.01	0.10	0.12	Snell. 'zx'= 58
5U	203	-15	346	1	0.7999	0.0000	0.0000	0.0000	0.9700	--	0.06	--	Snell. 'zx'= 58
5V	203	-15	598	1	0.7999	0.0000	0.0000	0.0000	0.9695	--	0.10	--	Snell. 'zx'= 58
5W	203	17	346	1	0.7999	0.0000	0.0000	0.0000	0.9700	--	0.06	--	Snell. 'zx'= 58
5X	203	17	598	1	0.7999	0.0000	0.0000	0.0000	0.9695	--	0.10	--	Snell. 'zx'= 58

ASTA NUM. 4 NI 12 NF 13 Lungh. 128.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-261	124	-4	0	-3	430	1	0.01	0.00	0.07	
2	0	-227	168	-3	0	-1	384	1	0.01	0.00	0.07	
3	0	-231	51	-3	0	-2	346	1	0.00	0.00	0.06	
4	0	-173	125	-0	0	1	268	1	0.01	0.00	0.05	
5A	0	-427	-293	35	0	16	617	1	0.01	0.01	0.10	
5B	0	-427	473	35	0	16	-240	1	0.02	0.01	0.04	
5C	0	-427	-293	-38	0	-19	617	1	0.01	0.01	0.10	
5D	0	-427	473	-38	0	-19	-240	1	0.02	0.01	0.04	

5E	0	217	-293	35	0	16	617	1	0.01	0.00	0.10
5F	0	217	473	35	0	16	-240	1	0.02	0.00	0.04
5G	0	217	-293	-38	0	-19	617	1	0.01	0.00	0.10
5H	0	217	473	-38	0	-19	-240	1	0.02	0.00	0.04
5I	0	-526	-107	95	0	44	444	1	0.00	0.01	0.08
5J	0	-526	287	95	0	44	-67	1	0.01	0.01	0.04
5K	0	-526	-107	-99	0	-46	444	1	0.00	0.01	0.08
5L	0	-526	287	-99	0	-46	-67	1	0.01	0.01	0.04
5M	0	316	-107	95	0	44	444	1	0.00	0.00	0.08
5N	0	316	287	95	0	44	-67	1	0.01	0.00	0.04
5O	0	316	-107	-99	0	-46	444	1	0.00	0.00	0.08
5P	0	316	287	-99	0	-46	-67	1	0.01	0.00	0.04
5Q	0	-463	-156	48	0	23	600	1	0.01	0.01	0.10
5R	0	-463	337	48	0	23	-223	1	0.02	0.01	0.04
5S	0	-463	-156	-51	0	-25	600	1	0.01	0.01	0.10
5T	0	-463	337	-51	0	-25	-223	1	0.02	0.01	0.04
5U	0	252	-156	48	0	23	600	1	0.01	0.00	0.10
5V	0	252	337	48	0	23	-223	1	0.02	0.00	0.04
5W	0	252	-156	-51	0	-25	600	1	0.01	0.00	0.10
5X	0	252	337	-51	0	-25	-223	1	0.02	0.00	0.04
1	64	-263	105	-4	0	-0	504	1	0.00	0.00	0.09
2	64	-228	149	-3	0	0	486	1	0.01	0.00	0.08
3	64	-232	33	-3	0	-0	373	1	0.00	0.00	0.06
4	64	-174	106	-0	0	1	342	1	0.00	0.00	0.06
5A	64	-428	-311	35	0	-6	330	1	0.01	0.01	0.06
5B	64	-428	454	35	0	-6	151	1	0.02	0.01	0.03
5C	64	-428	-311	-38	0	6	330	1	0.01	0.01	0.06
5D	64	-428	454	-38	0	6	151	1	0.02	0.01	0.03
5E	64	215	-311	35	0	-6	330	1	0.01	0.00	0.06
5F	64	215	454	35	0	-6	151	1	0.02	0.00	0.03
5G	64	215	-311	-38	0	6	330	1	0.01	0.00	0.06
5H	64	215	454	-38	0	6	151	1	0.02	0.00	0.03
5I	64	-528	-126	95	0	-18	478	1	0.01	0.01	0.08
5J	64	-528	269	95	0	-18	3	1	0.01	0.01	0.01
5K	64	-528	-126	-99	0	18	478	1	0.01	0.01	0.08
5L	64	-528	269	-99	0	18	3	1	0.01	0.01	0.01
5M	64	315	-126	95	0	-18	478	1	0.01	0.00	0.08
5N	64	315	269	95	0	-18	3	1	0.01	0.00	0.01
5O	64	315	-126	-99	0	18	478	1	0.01	0.00	0.08
5P	64	315	269	-99	0	18	3	1	0.01	0.00	0.01
5Q	64	-464	-175	48	0	-8	687	1	0.01	0.01	0.12
5R	64	-464	318	48	0	-8	-207	1	0.01	0.01	0.04
5S	64	-464	-175	-51	0	8	687	1	0.01	0.01	0.12
5T	64	-464	318	-51	0	8	-207	1	0.01	0.01	0.04
5U	64	251	-175	48	0	-8	687	1	0.01	0.00	0.12
5V	64	251	318	48	0	-8	-207	1	0.01	0.00	0.04
5W	64	251	-175	-51	0	8	687	1	0.01	0.00	0.12
5X	64	251	318	-51	0	8	-207	1	0.01	0.00	0.04
1	129	-265	86	-4	0	3	566	1	0.00	0.00	0.10
2	129	-230	130	-3	0	2	576	1	0.01	0.00	0.10
3	129	-234	14	-3	0	2	388	1	0.00	0.00	0.07
4	129	-176	88	-0	0	1	405	1	0.00	0.00	0.07
5A	129	-430	-330	35	0	-29	31	1	0.02	0.01	0.02
5B	129	-430	436	35	0	-29	530	1	0.02	0.01	0.09
5C	129	-430	-330	-38	0	31	31	1	0.02	0.01	0.03
5D	129	-430	436	-38	0	31	530	1	0.02	0.01	0.09
5E	129	213	-330	35	0	-29	31	1	0.02	0.00	0.02
5F	129	213	436	35	0	-29	530	1	0.02	0.00	0.09
5G	129	213	-330	-38	0	31	31	1	0.02	0.00	0.03
5H	129	213	436	-38	0	31	530	1	0.02	0.00	0.09
5I	129	-530	-144	95	0	-79	499	1	0.01	0.01	0.08
5J	129	-530	250	95	0	-79	62	1	0.01	0.01	0.07
5K	129	-530	-144	-99	0	81	499	1	0.01	0.01	0.08
5L	129	-530	250	-99	0	81	62	1	0.01	0.01	0.07
5M	129	313	-144	95	0	-79	499	1	0.01	0.00	0.08
5N	129	313	250	95	0	-79	62	1	0.01	0.00	0.07
5O	129	313	-144	-99	0	81	499	1	0.01	0.00	0.08
5P	129	313	250	-99	0	81	62	1	0.01	0.00	0.07
5Q	129	-466	-193	48	0	-39	763	1	0.01	0.01	0.13
5R	129	-466	299	48	0	-39	-202	1	0.01	0.01	0.03
5S	129	-466	-193	-51	0	41	763	1	0.01	0.01	0.13
5T	129	-466	299	-51	0	41	-202	1	0.01	0.01	0.04
5U	129	249	-193	48	0	-39	763	1	0.01	0.00	0.13
5V	129	249	299	48	0	-39	-202	1	0.01	0.00	0.03
5W	129	249	-193	-51	0	41	763	1	0.01	0.00	0.13
5X	129	249	299	-51	0	41	-202	1	0.01	0.00	0.04

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-265	-3	566	1	0.7999	0.9963	1.0004	0.9996	0.9162	0.00	0.11	0.10	Snell. 'zx'= 58

2	-230	2	576	1	0.7999	0.9971	1.0003	0.9997	0.9209	0.00	0.11	0.10	Snell. 'zx'= 58
3	-234	-2	388	1	0.7999	0.9967	1.0005	0.9996	0.9102	0.00	0.08	0.07	Snell. 'zx'= 58
4	-176	1	405	1	0.7999	1.0017	1.0002	1.0000	0.9212	0.00	0.08	0.07	Snell. 'zx'= 58
5A	-430	-29	617	1	0.7999	0.9944	0.9997	0.9995	0.9487	0.01	0.14	0.14	Snell. 'zx'= 58
5B	-430	-29	530	1	0.7999	0.9944	0.9990	0.9995	0.9666	0.01	0.09	0.12	Snell. 'zx'= 58
5C	-430	31	617	1	0.7999	0.9942	0.9997	0.9995	0.9487	0.01	0.14	0.14	Snell. 'zx'= 58
5D	-430	31	530	1	0.7999	0.9942	0.9990	0.9995	0.9666	0.01	0.09	0.12	Snell. 'zx'= 58
5E	217	-29	617	1	0.7999	0.0000	0.0000	0.0000	0.9487	--	0.11	--	Snell. 'zx'= 58
5F	217	-29	530	1	0.7999	0.0000	0.0000	0.0000	0.9666	--	0.09	--	Snell. 'zx'= 58
5G	217	31	617	1	0.7999	0.0000	0.0000	0.0000	0.9487	--	0.11	--	Snell. 'zx'= 58
5H	217	31	530	1	0.7999	0.0000	0.0000	0.0000	0.9666	--	0.09	--	Snell. 'zx'= 58
5I	-530	-79	499	1	0.7999	0.9932	1.0011	0.9994	0.9104	0.01	0.17	0.16	Snell. 'zx'= 58
5J	-530	-79	-67	1	0.7999	0.9932	0.9981	0.9992	0.9694	0.01	0.01	0.09	Snell. 'zx'= 58
5K	-530	81	499	1	0.7999	0.9931	1.0011	0.9994	0.9104	0.01	0.17	0.16	Snell. 'zx'= 58
5L	-530	81	-67	1	0.7999	0.9931	0.9981	0.9992	0.9694	0.01	0.01	0.09	Snell. 'zx'= 58
5M	316	-79	499	1	0.7999	0.0000	0.0000	0.0000	0.9104	--	0.09	--	Snell. 'zx'= 58
5N	316	-79	-67	1	0.7999	0.0000	0.0000	0.0000	0.9694	--	0.01	--	Snell. 'zx'= 58
5O	316	81	499	1	0.7999	0.0000	0.0000	0.0000	0.9104	--	0.09	--	Snell. 'zx'= 58
5P	316	81	-67	1	0.7999	0.0000	0.0000	0.0000	0.9694	--	0.01	--	Snell. 'zx'= 58
5Q	-466	-39	763	1	0.7999	0.9938	1.0008	0.9995	0.9151	0.01	0.18	0.17	Snell. 'zx'= 58
5R	-466	-39	-223	1	0.7999	0.9938	1.0010	0.9995	0.9094	0.01	0.08	0.08	Snell. 'zx'= 58
5S	-466	41	763	1	0.7999	0.9936	1.0008	0.9995	0.9151	0.01	0.18	0.17	Snell. 'zx'= 58
5T	-466	41	-223	1	0.7999	0.9936	1.0010	0.9995	0.9094	0.01	0.08	0.08	Snell. 'zx'= 58
5U	252	-39	763	1	0.7999	0.0000	0.0000	0.0000	0.9151	--	0.14	--	Snell. 'zx'= 58
5V	252	-39	-223	1	0.7999	0.0000	0.0000	0.0000	0.9094	--	0.04	--	Snell. 'zx'= 58
5W	252	41	763	1	0.7999	0.0000	0.0000	0.0000	0.9151	--	0.14	--	Snell. 'zx'= 58
5X	252	41	-223	1	0.7999	0.0000	0.0000	0.0000	0.9094	--	0.04	--	Snell. 'zx'= 58

ASTA NUM. 5 NI 13 NF 14 Lungh. 128.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-290	-173	-4	0	-3	566	1	0.01	0.00	0.10	
2	0	-255	-128	-5	0	-3	576	1	0.01	0.00	0.10	
3	0	-251	-157	-3	0	-2	388	1	0.01	0.00	0.07	
4	0	-192	-84	-4	0	-3	405	1	0.00	0.00	0.07	
5A	0	-600	-415	37	0	31	531	1	0.02	0.01	0.09	
5B	0	-600	307	37	0	31	31	1	0.01	0.01	0.03	
5C	0	-600	-415	-40	0	-33	531	1	0.02	0.01	0.09	
5D	0	-600	307	-40	0	-33	31	1	0.01	0.01	0.03	
5E	0	362	-415	37	0	31	531	1	0.02	0.00	0.09	
5F	0	362	307	37	0	31	31	1	0.01	0.00	0.03	
5G	0	362	-415	-40	0	-33	531	1	0.02	0.00	0.09	
5H	0	362	307	-40	0	-33	31	1	0.01	0.00	0.03	
5I	0	-555	-249	96	0	78	499	1	0.01	0.01	0.08	
5J	0	-555	141	96	0	78	62	1	0.01	0.01	0.07	
5K	0	-555	-249	-99	0	-80	499	1	0.01	0.01	0.08	
5L	0	-555	141	-99	0	-80	62	1	0.01	0.01	0.07	
5M	0	318	-249	96	0	78	499	1	0.01	0.00	0.08	
5N	0	318	141	96	0	78	62	1	0.01	0.00	0.07	
5O	0	318	-249	-99	0	-80	499	1	0.01	0.00	0.08	
5P	0	318	141	-99	0	-80	62	1	0.01	0.00	0.07	
5Q	0	-531	-329	48	0	40	764	1	0.02	0.01	0.13	
5R	0	-531	221	48	0	40	-202	1	0.01	0.01	0.03	
5S	0	-531	-329	-52	0	-42	764	1	0.02	0.01	0.13	
5T	0	-531	221	-52	0	-42	-202	1	0.01	0.01	0.04	
5U	0	294	-329	48	0	40	764	1	0.02	0.00	0.13	
5V	0	294	221	48	0	40	-202	1	0.01	0.00	0.03	
5W	0	294	-329	-52	0	-42	764	1	0.02	0.00	0.13	
5X	0	294	221	-52	0	-42	-202	1	0.01	0.00	0.04	
1	64	-291	-191	-4	0	-0	449	1	0.01	0.00	0.08	
2	64	-256	-147	-5	0	-0	487	1	0.01	0.00	0.08	
3	64	-252	-176	-3	0	-0	281	1	0.01	0.00	0.05	
4	64	-194	-102	-4	0	-0	345	1	0.00	0.00	0.06	
5A	64	-601	-433	37	0	7	655	1	0.02	0.01	0.11	
5B	64	-601	288	37	0	7	-176	1	0.01	0.01	0.03	
5C	64	-601	-433	-40	0	-7	655	1	0.02	0.01	0.11	
5D	64	-601	288	-40	0	-7	-176	1	0.01	0.01	0.03	
5E	64	361	-433	37	0	7	655	1	0.02	0.00	0.11	
5F	64	361	288	37	0	7	-176	1	0.01	0.00	0.03	
5G	64	361	-433	-40	0	-7	655	1	0.02	0.00	0.11	
5H	64	361	288	-40	0	-7	-176	1	0.01	0.00	0.03	
5I	64	-557	-268	96	0	17	503	1	0.01	0.01	0.09	
5J	64	-557	122	96	0	17	-23	1	0.01	0.01	0.01	
5K	64	-557	-268	-99	0	-17	503	1	0.01	0.01	0.09	
5L	64	-557	122	-99	0	-17	-23	1	0.01	0.01	0.01	
5M	64	316	-268	96	0	17	503	1	0.01	0.00	0.09	
5N	64	316	122	96	0	17	-23	1	0.01	0.00	0.01	
5O	64	316	-268	-99	0	-17	503	1	0.01	0.00	0.09	
5P	64	316	122	-99	0	-17	-23	1	0.01	0.00	0.01	
5Q	64	-533	-347	48	0	8	694	1	0.02	0.01	0.12	
5R	64	-533	202	48	0	8	-214	1	0.01	0.01	0.04	
5S	64	-533	-347	-52	0	-9	694	1	0.02	0.01	0.12	

5T	64	-533	202	-52	0	-9	-214	1	0.01	0.01	0.04
5U	64	292	-347	48	0	8	694	1	0.02	0.00	0.12
5V	64	292	202	48	0	8	-214	1	0.01	0.00	0.04
5W	64	292	-347	-52	0	-9	694	1	0.02	0.00	0.12
5X	64	292	202	-52	0	-9	-214	1	0.01	0.00	0.04
1	129	-293	-210	-4	0	2	320	1	0.01	0.00	0.05
2	129	-258	-166	-5	0	3	387	1	0.01	0.00	0.07
3	129	-254	-194	-3	0	2	162	1	0.01	0.00	0.03
4	129	-196	-121	-4	0	2	273	1	0.01	0.00	0.05
5A	129	-603	-452	37	0	-17	768	1	0.02	0.01	0.13
5B	129	-603	269	37	0	-17	-394	1	0.01	0.01	0.07
5C	129	-603	-452	-40	0	19	768	1	0.02	0.01	0.13
5D	129	-603	269	-40	0	19	-394	1	0.01	0.01	0.07
5E	129	359	-452	37	0	-17	768	1	0.02	0.00	0.13
5F	129	359	269	37	0	-17	-394	1	0.01	0.00	0.07
5G	129	359	-452	-40	0	19	768	1	0.02	0.00	0.13
5H	129	359	269	-40	0	19	-394	1	0.01	0.00	0.07
5I	129	-559	-286	96	0	-45	495	1	0.01	0.01	0.08
5J	129	-559	104	96	0	-45	-121	1	0.00	0.01	0.04
5K	129	-559	-286	-99	0	47	495	1	0.01	0.01	0.08
5L	129	-559	104	-99	0	47	-121	1	0.00	0.01	0.04
5M	129	315	-286	96	0	-45	495	1	0.01	0.00	0.08
5N	129	315	104	96	0	-45	-121	1	0.00	0.00	0.04
5O	129	315	-286	-99	0	47	495	1	0.01	0.00	0.08
5P	129	315	104	-99	0	47	-121	1	0.00	0.00	0.04
5Q	129	-534	-366	48	0	-23	612	1	0.02	0.01	0.10
5R	129	-534	183	48	0	-23	-238	1	0.01	0.01	0.04
5S	129	-534	-366	-52	0	25	612	1	0.02	0.01	0.10
5T	129	-534	183	-52	0	25	-238	1	0.01	0.01	0.04
5U	129	290	-366	48	0	-23	612	1	0.02	0.00	0.10
5V	129	290	183	48	0	-23	-238	1	0.01	0.00	0.04
5W	129	290	-366	-52	0	25	612	1	0.02	0.00	0.10
5X	129	290	183	-52	0	25	-238	1	0.01	0.00	0.04

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-293	-3	566	1	0.7999	0.9959	1.0003	0.9996	0.9256	0.00	0.11	0.10	Snell. 'zx'= 58
2	-258	-3	576	1	0.7999	0.9964	1.0003	0.9997	0.9207	0.00	0.11	0.10	Snell. 'zx'= 58
3	-254	-2	388	1	0.7999	0.9964	1.0001	0.9996	0.9326	0.00	0.08	0.07	Snell. 'zx'= 58
4	-196	-3	405	1	0.7999	0.9972	1.0003	0.9998	0.9205	0.00	0.08	0.07	Snell. 'zx'= 58
5A	-603	31	768	1	0.7999	0.9923	1.0008	0.9993	0.9197	0.01	0.18	0.17	Snell. 'zx'= 58
5B	-603	31	-394	1	0.7999	0.9923	0.9994	0.9993	0.9540	0.01	0.07	0.10	Snell. 'zx'= 58
5C	-603	-33	768	1	0.7999	0.9921	1.0008	0.9993	0.9197	0.01	0.18	0.17	Snell. 'zx'= 58
5D	-603	-33	-394	1	0.7999	0.9921	0.9994	0.9993	0.9540	0.01	0.07	0.10	Snell. 'zx'= 58
5E	362	31	768	1	0.7999	0.0000	0.0000	0.0000	0.9197	--	0.14	--	Snell. 'zx'= 58
5F	362	31	-394	1	0.7999	0.0000	0.0000	0.0000	0.9540	--	0.07	--	Snell. 'zx'= 58
5G	362	-33	768	1	0.7999	0.0000	0.0000	0.0000	0.9197	--	0.14	--	Snell. 'zx'= 58
5H	362	-33	-394	1	0.7999	0.0000	0.0000	0.0000	0.9540	--	0.07	--	Snell. 'zx'= 58
5I	-559	78	503	1	0.7999	0.9927	1.0013	0.9994	0.9051	0.01	0.17	0.16	Snell. 'zx'= 58
5J	-559	78	-121	1	0.7999	0.9927	0.9987	0.9994	0.9680	0.01	0.02	0.09	Snell. 'zx'= 58
5K	-559	-80	503	1	0.7999	0.9926	1.0013	0.9994	0.9051	0.01	0.17	0.16	Snell. 'zx'= 58
5L	-559	-80	-121	1	0.7999	0.9926	0.9987	0.9994	0.9680	0.01	0.02	0.10	Snell. 'zx'= 58
5M	318	78	503	1	0.7999	0.0000	0.0000	0.0000	0.9051	--	0.09	--	Snell. 'zx'= 58
5N	318	78	-121	1	0.7999	0.0000	0.0000	0.0000	0.9680	--	0.02	--	Snell. 'zx'= 58
5O	318	-80	503	1	0.7999	0.0000	0.0000	0.0000	0.9051	--	0.09	--	Snell. 'zx'= 58
5P	318	-80	-121	1	0.7999	0.0000	0.0000	0.0000	0.9680	--	0.02	--	Snell. 'zx'= 58
5Q	-534	40	764	1	0.7999	0.9930	1.0009	0.9994	0.9144	0.01	0.18	0.17	Snell. 'zx'= 58
5R	-534	40	-238	1	0.7999	0.9930	1.0010	0.9994	0.9122	0.01	0.09	0.08	Snell. 'zx'= 58
5S	-534	-42	764	1	0.7999	0.9929	1.0009	0.9994	0.9144	0.01	0.19	0.17	Snell. 'zx'= 58
5T	-534	-42	-238	1	0.7999	0.9929	1.0010	0.9994	0.9122	0.01	0.09	0.08	Snell. 'zx'= 58
5U	294	40	764	1	0.7999	0.0000	0.0000	0.0000	0.9144	--	0.14	--	Snell. 'zx'= 58
5V	294	40	-238	1	0.7999	0.0000	0.0000	0.0000	0.9122	--	0.04	--	Snell. 'zx'= 58
5W	294	-42	764	1	0.7999	0.0000	0.0000	0.0000	0.9144	--	0.14	--	Snell. 'zx'= 58
5X	294	-42	-238	1	0.7999	0.0000	0.0000	0.0000	0.9122	--	0.04	--	Snell. 'zx'= 58

ASTA NUM. 6 NI 14 NF 15 Lungh. 128.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-317	-464	-5	0	-3	309	1	0.02	0.00	0.05	
2	0	-283	-420	-7	0	-3	376	1	0.02	0.00	0.06	
3	0	-270	-362	-4	0	-2	155	1	0.02	0.00	0.03	
4	0	-212	-289	-7	0	-2	267	1	0.01	0.00	0.05	
5A	0	-777	-556	26	0	13	765	1	0.03	0.01	0.13	

5B	0	-777	164	26	0	13	-400	1	0.01	0.01	0.07
5C	0	-777	-556	-29	0	-16	765	1	0.03	0.01	0.13
5D	0	-777	164	-29	0	-16	-400	1	0.01	0.01	0.07
5E	0	513	-556	26	0	13	765	1	0.03	0.01	0.13
5F	0	513	164	26	0	13	-400	1	0.01	0.01	0.07
5G	0	513	-556	-29	0	-16	765	1	0.03	0.01	0.13
5H	0	513	164	-29	0	-16	-400	1	0.01	0.01	0.07
5I	0	-591	-428	42	0	30	493	1	0.02	0.01	0.08
5J	0	-591	36	42	0	30	-128	1	0.00	0.01	0.03
5K	0	-591	-428	-46	0	-33	493	1	0.02	0.01	0.08
5L	0	-591	36	-46	0	-33	-128	1	0.00	0.01	0.03
5M	0	327	-428	42	0	30	493	1	0.02	0.00	0.08
5N	0	327	36	42	0	30	-128	1	0.00	0.00	0.03
5O	0	327	-428	-46	0	-33	493	1	0.02	0.00	0.08
5P	0	327	36	-46	0	-33	-128	1	0.00	0.00	0.03
5Q	0	-612	-624	28	0	15	611	1	0.03	0.01	0.10
5R	0	-612	232	28	0	15	-246	1	0.01	0.01	0.04
5S	0	-612	-624	-32	0	-18	611	1	0.03	0.01	0.10
5T	0	-612	232	-32	0	-18	-246	1	0.01	0.01	0.04
5U	0	348	-624	28	0	15	611	1	0.03	0.00	0.10
5V	0	348	232	28	0	15	-246	1	0.01	0.00	0.04
5W	0	348	-624	-32	0	-18	611	1	0.03	0.00	0.10
5X	0	348	232	-32	0	-18	-246	1	0.01	0.00	0.04
1	64	-319	-482	-5	0	0	5	1	0.02	0.00	0.00
2	64	-284	-438	-7	0	1	100	1	0.02	0.00	0.02
3	64	-272	-381	-4	0	0	-85	1	0.02	0.00	0.01
4	64	-214	-308	-7	0	2	75	1	0.01	0.00	0.01
5A	64	-779	-575	26	0	-4	789	1	0.03	0.01	0.13
5B	64	-779	145	26	0	-4	-689	1	0.01	0.01	0.12
5C	64	-779	-575	-29	0	4	789	1	0.03	0.01	0.13
5D	64	-779	145	-29	0	4	-689	1	0.01	0.01	0.12
5E	64	512	-575	26	0	-4	789	1	0.03	0.01	0.13
5F	64	512	145	26	0	-4	-689	1	0.01	0.01	0.12
5G	64	512	-575	-29	0	4	789	1	0.03	0.01	0.13
5H	64	512	145	-29	0	4	-689	1	0.01	0.01	0.12
5I	64	-592	-447	42	0	2	424	1	0.02	0.01	0.07
5J	64	-592	17	42	0	2	-324	1	0.00	0.01	0.05
5K	64	-592	-447	-46	0	-2	424	1	0.02	0.01	0.07
5L	64	-592	17	-46	0	-2	-324	1	0.00	0.01	0.05
5M	64	325	-447	42	0	2	424	1	0.02	0.00	0.07
5N	64	325	17	42	0	2	-324	1	0.00	0.00	0.05
5O	64	325	-447	-46	0	-2	424	1	0.02	0.00	0.07
5P	64	325	17	-46	0	-2	-324	1	0.00	0.00	0.05
5Q	64	-614	-643	28	0	-3	12	1	0.03	0.01	0.00
5R	64	-614	213	28	0	-3	88	1	0.01	0.01	0.01
5S	64	-614	-643	-32	0	3	12	1	0.03	0.01	0.00
5T	64	-614	213	-32	0	3	88	1	0.01	0.01	0.01
5U	64	346	-643	28	0	-3	12	1	0.03	0.00	0.00
5V	64	346	213	28	0	-3	88	1	0.01	0.00	0.01
5W	64	346	-643	-32	0	3	12	1	0.03	0.00	0.00
5X	64	346	213	-32	0	3	88	1	0.01	0.00	0.01
1	129	-321	-501	-5	0	3	-312	1	0.02	0.00	0.05
2	129	-286	-457	-7	0	5	-188	1	0.02	0.00	0.03
3	129	-274	-400	-4	0	3	-336	1	0.02	0.00	0.06
4	129	-216	-326	-7	0	6	-130	1	0.02	0.00	0.02
5A	129	-781	-593	26	0	-21	802	1	0.03	0.01	0.14
5B	129	-781	126	26	0	-21	-990	1	0.01	0.01	0.17
5C	129	-781	-593	-29	0	23	802	1	0.03	0.01	0.14
5D	129	-781	126	-29	0	23	-990	1	0.01	0.01	0.17
5E	129	510	-593	26	0	-21	802	1	0.03	0.01	0.14
5F	129	510	126	26	0	-21	-990	1	0.01	0.01	0.17
5G	129	510	-593	-29	0	23	802	1	0.03	0.01	0.14
5H	129	510	126	-29	0	23	-990	1	0.01	0.01	0.17
5I	129	-594	-466	42	0	-26	343	1	0.02	0.01	0.06
5J	129	-594	-2	42	0	-26	-531	1	0.00	0.01	0.09
5K	129	-594	-466	-46	0	28	343	1	0.02	0.01	0.06
5L	129	-594	-2	-46	0	28	-531	1	0.00	0.01	0.09
5M	129	323	-466	42	0	-26	343	1	0.02	0.00	0.06
5N	129	323	-2	42	0	-26	-531	1	0.00	0.00	0.09
5O	129	323	-466	-46	0	28	343	1	0.02	0.00	0.06
5P	129	323	-2	-46	0	28	-531	1	0.00	0.00	0.09
5Q	129	-615	-662	28	0	-22	-598	1	0.03	0.01	0.10
5R	129	-615	194	28	0	-22	410	1	0.01	0.01	0.07
5S	129	-615	-662	-32	0	24	-598	1	0.03	0.01	0.10
5T	129	-615	194	-32	0	24	410	1	0.01	0.01	0.07
5U	129	345	-662	28	0	-22	-598	1	0.03	0.00	0.10
5V	129	345	194	28	0	-22	410	1	0.01	0.00	0.07
5W	129	345	-662	-32	0	24	-598	1	0.03	0.00	0.10
5X	129	345	194	-32	0	24	410	1	0.01	0.00	0.07

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
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	kg	kg*m											

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1	-321	3	-312	1	0.7999	0.9955	0.9987	0.9995	0.9687	0.01	0.05	0.06	Snell. 'zx'= 58
2	-286	5	376	1	0.7999	0.9963	0.9993	0.9997	0.9679	0.00	0.07	0.07	Snell. 'zx'= 58
3	-274	3	-336	1	0.7999	0.9961	0.9994	0.9996	0.9668	0.00	0.06	0.06	Snell. 'zx'= 58
4	-216	6	267	1	0.7999	0.9979	0.9995	0.9998	0.9675	0.00	0.05	0.05	Snell. 'zx'= 58
5A	-781	-21	802	1	0.7999	0.9890	1.0017	0.9991	0.9071	0.01	0.18	0.17	Snell. 'zx'= 58
5B	-781	-21	-990	1	0.7999	0.9890	1.0004	0.9991	0.9332	0.01	0.21	0.20	Snell. 'zx'= 58
5C	-781	23	802	1	0.7999	0.9890	1.0017	0.9990	0.9071	0.01	0.18	0.17	Snell. 'zx'= 58
5D	-781	23	-990	1	0.7999	0.9890	1.0004	0.9990	0.9332	0.01	0.21	0.20	Snell. 'zx'= 58
5E	513	-21	802	1	0.7999	0.0000	0.0000	0.0000	0.9071	--	0.14	--	Snell. 'zx'= 58
5F	513	-21	-990	1	0.7999	0.0000	0.0000	0.0000	0.9332	--	0.18	--	Snell. 'zx'= 58
5G	513	23	802	1	0.7999	0.0000	0.0000	0.0000	0.9071	--	0.14	--	Snell. 'zx'= 58
5H	513	23	-990	1	0.7999	0.0000	0.0000	0.0000	0.9332	--	0.18	--	Snell. 'zx'= 58
5I	-594	30	493	1	0.7999	0.9916	1.0008	0.9992	0.9195	0.01	0.13	0.12	Snell. 'zx'= 58
5J	-594	30	-531	1	0.7999	0.9916	1.0000	0.9992	0.9402	0.01	0.13	0.12	Snell. 'zx'= 58
5K	-594	-33	493	1	0.7999	0.9916	1.0008	0.9991	0.9195	0.01	0.13	0.12	Snell. 'zx'= 58
5L	-594	-33	-531	1	0.7999	0.9916	1.0000	0.9991	0.9402	0.01	0.13	0.13	Snell. 'zx'= 58
5M	327	30	493	1	0.7999	0.0000	0.0000	0.0000	0.9195	--	0.09	--	Snell. 'zx'= 58
5N	327	30	-531	1	0.7999	0.0000	0.0000	0.0000	0.9402	--	0.09	--	Snell. 'zx'= 58
5O	327	-33	493	1	0.7999	0.0000	0.0000	0.0000	0.9195	--	0.09	--	Snell. 'zx'= 58
5P	327	-33	-531	1	0.7999	0.0000	0.0000	0.0000	0.9402	--	0.09	--	Snell. 'zx'= 58
5Q	-615	-22	611	1	0.7999	0.9913	0.9976	0.9990	0.9688	0.01	0.11	0.13	Snell. 'zx'= 58
5R	-615	-22	410	1	0.7999	0.9913	0.9984	0.9992	0.9692	0.01	0.07	0.10	Snell. 'zx'= 58
5S	-615	24	611	1	0.7999	0.9913	0.9976	0.9990	0.9688	0.01	0.11	0.13	Snell. 'zx'= 58
5T	-615	24	410	1	0.7999	0.9913	0.9984	0.9992	0.9692	0.01	0.07	0.10	Snell. 'zx'= 58
5U	348	-22	611	1	0.7999	0.0000	0.0000	0.0000	0.9688	--	0.10	--	Snell. 'zx'= 58
5V	348	-22	410	1	0.7999	0.0000	0.0000	0.0000	0.9692	--	0.07	--	Snell. 'zx'= 58
5W	348	24	611	1	0.7999	0.0000	0.0000	0.0000	0.9688	--	0.10	--	Snell. 'zx'= 58
5X	348	24	410	1	0.7999	0.0000	0.0000	0.0000	0.9692	--	0.07	--	Snell. 'zx'= 58

ASTA NUM. 7 NI 15 NF 8 Lungh. 78.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-345	-744	-3	0	-3	-325	1	0.03	0.00	0.06	
2	0	-309	-701	10	0	1	-201	1	0.03	0.00	0.03	
3	0	-290	-560	1	0	-1	-344	1	0.03	0.00	0.06	
4	0	-230	-488	22	0	5	-138	1	0.02	0.00	0.02	
5A	0	-951	-672	93	0	24	795	1	0.03	0.01	0.14	
5B	0	-951	4	93	0	24	-994	1	0.00	0.01	0.17	
5C	0	-951	-672	-97	0	-27	795	1	0.03	0.01	0.14	
5D	0	-951	4	-97	0	-27	-994	1	0.00	0.01	0.17	
5E	0	660	-672	93	0	24	795	1	0.03	0.01	0.14	
5F	0	660	4	93	0	24	-994	1	0.00	0.01	0.17	
5G	0	660	-672	-97	0	-27	795	1	0.03	0.01	0.14	
5H	0	660	4	-97	0	-27	-994	1	0.00	0.01	0.17	
5I	0	-641	-575	122	0	39	339	1	0.03	0.01	0.06	
5J	0	-641	-93	122	0	39	-538	1	0.00	0.01	0.09	
5K	0	-641	-575	-126	0	-41	339	1	0.03	0.01	0.06	
5L	0	-641	-93	-126	0	-41	-538	1	0.00	0.01	0.09	
5M	0	350	-575	122	0	39	339	1	0.03	0.00	0.06	
5N	0	350	-93	122	0	39	-538	1	0.00	0.00	0.09	
5O	0	350	-575	-126	0	-41	339	1	0.03	0.00	0.06	
5P	0	350	-93	-126	0	-41	-538	1	0.00	0.00	0.09	
5Q	0	-699	-798	113	0	31	401	1	0.04	0.01	0.07	
5R	0	-699	130	113	0	31	-600	1	0.01	0.01	0.10	
5S	0	-699	-798	-117	0	-34	401	1	0.04	0.01	0.07	
5T	0	-699	130	-117	0	-34	-600	1	0.01	0.01	0.10	
5U	0	409	-798	113	0	31	401	1	0.04	0.01	0.07	
5V	0	409	130	113	0	31	-600	1	0.01	0.01	0.10	
5W	0	409	-798	-117	0	-34	401	1	0.04	0.01	0.07	
5X	0	409	130	-117	0	-34	-600	1	0.01	0.01	0.10	
1	39	-346	-755	-3	0	-2	-620	1	0.03	0.00	0.11	
2	39	-310	-712	10	0	-3	-479	1	0.03	0.00	0.08	
3	39	-291	-572	1	0	-1	-567	1	0.03	0.00	0.10	
4	39	-231	-499	22	0	-4	-332	1	0.02	0.00	0.06	
5A	39	-952	-683	93	0	-13	786	1	0.03	0.01	0.13	
5B	39	-952	-8	93	0	-13	-1252	1	0.00	0.01	0.21	
5C	39	-952	-683	-97	0	12	786	1	0.03	0.01	0.13	
5D	39	-952	-8	-97	0	12	-1252	1	0.00	0.01	0.21	
5E	39	659	-683	93	0	-13	786	1	0.03	0.01	0.13	
5F	39	659	-8	93	0	-13	-1252	1	0.00	0.01	0.21	
5G	39	659	-683	-97	0	12	786	1	0.03	0.01	0.13	
5H	39	659	-8	-97	0	12	-1252	1	0.00	0.01	0.21	
5I	39	-642	-586	122	0	-10	285	1	0.03	0.01	0.05	
5J	39	-642	-104	122	0	-10	-752	1	0.00	0.01	0.13	
5K	39	-642	-586	-126	0	9	285	1	0.03	0.01	0.05	
5L	39	-642	-104	-126	0	9	-752	1	0.00	0.01	0.13	
5M	39	349	-586	122	0	-10	285	1	0.03	0.00	0.05	
5N	39	349	-104	122	0	-10	-752	1	0.00	0.00	0.13	
5O	39	349	-586	-126	0	9	285	1	0.03	0.00	0.05	
5P	39	349	-104	-126	0	9	-752	1	0.00	0.00	0.13	

5Q	39	-700	-809	113	0	-14	429	1	0.04	0.01	0.07
5R	39	-700	119	113	0	-14	-896	1	0.01	0.01	0.15
5S	39	-700	-809	-117	0	13	429	1	0.04	0.01	0.07
5T	39	-700	119	-117	0	13	-896	1	0.01	0.01	0.15
5U	39	408	-809	113	0	-14	429	1	0.04	0.01	0.07
5V	39	408	119	113	0	-14	-896	1	0.01	0.01	0.15
5W	39	408	-809	-117	0	13	429	1	0.04	0.01	0.07
5X	39	408	119	-117	0	13	-896	1	0.01	0.01	0.15
1	79	-347	-767	-3	0	-0	-920	1	0.04	0.00	0.16
2	79	-311	-723	10	0	-7	-762	1	0.03	0.00	0.13
3	79	-292	-583	1	0	-2	-795	1	0.03	0.00	0.13
4	79	-232	-510	22	0	-12	-531	1	0.02	0.00	0.09
5A	79	-953	-695	93	0	-50	772	1	0.03	0.01	0.13
5B	79	-953	-19	93	0	-50	-1515	1	0.00	0.01	0.26
5C	79	-953	-695	-97	0	51	772	1	0.03	0.01	0.13
5D	79	-953	-19	-97	0	51	-1515	1	0.00	0.01	0.26
5E	79	658	-695	93	0	-50	772	1	0.03	0.01	0.13
5F	79	658	-19	93	0	-50	-1515	1	0.00	0.01	0.26
5G	79	658	-695	-97	0	51	772	1	0.03	0.01	0.13
5H	79	658	-19	-97	0	51	-1515	1	0.00	0.01	0.26
5I	79	-643	-598	122	0	-60	226	1	0.03	0.01	0.05
5J	79	-643	-116	122	0	-60	-970	1	0.01	0.01	0.16
5K	79	-643	-598	-126	0	60	226	1	0.03	0.01	0.05
5L	79	-643	-116	-126	0	60	-970	1	0.01	0.01	0.16
5M	79	348	-598	122	0	-60	226	1	0.03	0.00	0.05
5N	79	348	-116	122	0	-60	-970	1	0.01	0.00	0.16
5O	79	348	-598	-126	0	60	226	1	0.03	0.00	0.05
5P	79	348	-116	-126	0	60	-970	1	0.01	0.00	0.16
5Q	79	-701	-821	113	0	-60	452	1	0.04	0.01	0.08
5R	79	-701	107	113	0	-60	-1195	1	0.00	0.01	0.20
5S	79	-701	-821	-117	0	60	452	1	0.04	0.01	0.08
5T	79	-701	107	-117	0	60	-1195	1	0.00	0.01	0.20
5U	79	407	-821	113	0	-60	452	1	0.04	0.01	0.08
5V	79	407	107	113	0	-60	-1195	1	0.00	0.01	0.20
5W	79	407	-821	-117	0	60	452	1	0.04	0.01	0.08
5X	79	407	107	-117	0	60	-1195	1	0.00	0.01	0.20

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-347	-3	-920	1	0.9219	0.9985	0.9998	1.0000	0.9785	0.00	0.16	0.16	Snell. 'zx'= 35
2	-311	-7	-762	1	0.9219	0.9980	0.9998	1.0000	0.9804	0.00	0.13	0.14	Snell. 'zx'= 35
3	-292	-2	-795	1	0.9219	0.9999	0.9999	1.0000	0.9766	0.00	0.14	0.14	Snell. 'zx'= 35
4	-232	-12	-531	1	0.9219	0.9980	0.9998	1.0000	0.9805	0.00	0.09	0.10	Snell. 'zx'= 35
5A	-953	-50	795	1	0.9219	0.9912	1.0007	1.0000	0.9643	0.01	0.14	0.19	Snell. 'zx'= 35
5B	-953	-50	-1515	1	0.9219	0.9912	1.0001	1.0000	0.9715	0.01	0.26	0.31	Snell. 'zx'= 35
5C	-953	51	795	1	0.9219	0.9909	1.0007	1.0000	0.9643	0.01	0.14	0.19	Snell. 'zx'= 35
5D	-953	51	-1515	1	0.9219	0.9909	1.0001	1.0000	0.9715	0.01	0.26	0.31	Snell. 'zx'= 35
5E	660	-50	795	1	0.9219	0.0000	0.0000	0.0000	0.9643	--	0.13	--	Snell. 'zx'= 35
5F	660	-50	-1515	1	0.9219	0.0000	0.0000	0.0000	0.9715	--	0.26	--	Snell. 'zx'= 35
5G	660	51	795	1	0.9219	0.0000	0.0000	0.0000	0.9643	--	0.13	--	Snell. 'zx'= 35
5H	660	51	-1515	1	0.9219	0.0000	0.0000	0.0000	0.9715	--	0.26	--	Snell. 'zx'= 35
5I	-643	-60	339	1	0.9219	0.9932	1.0001	1.0000	0.9712	0.01	0.06	0.12	Snell. 'zx'= 35
5J	-643	-60	-970	1	0.9219	0.9932	0.9999	1.0000	0.9737	0.01	0.17	0.22	Snell. 'zx'= 35
5K	-643	60	339	1	0.9219	0.9930	1.0001	1.0000	0.9712	0.01	0.06	0.12	Snell. 'zx'= 35
5L	-643	60	-970	1	0.9219	0.9930	0.9999	1.0000	0.9737	0.01	0.17	0.22	Snell. 'zx'= 35
5M	350	-60	339	1	0.9219	0.0000	0.0000	0.0000	0.9712	--	0.06	--	Snell. 'zx'= 35
5N	350	-60	-970	1	0.9219	0.0000	0.0000	0.0000	0.9737	--	0.17	--	Snell. 'zx'= 35
5O	350	60	339	1	0.9219	0.0000	0.0000	0.0000	0.9712	--	0.06	--	Snell. 'zx'= 35
5P	350	60	-970	1	0.9219	0.0000	0.0000	0.0000	0.9737	--	0.17	--	Snell. 'zx'= 35
5Q	-701	-60	452	1	0.9219	0.9933	1.0004	1.0000	0.9662	0.01	0.08	0.14	Snell. 'zx'= 35
5R	-701	-60	-1195	1	0.9219	0.9933	0.9999	1.0000	0.9748	0.01	0.21	0.26	Snell. 'zx'= 35
5S	-701	60	452	1	0.9219	0.9931	1.0004	1.0000	0.9662	0.01	0.08	0.14	Snell. 'zx'= 35
5T	-701	60	-1195	1	0.9219	0.9931	0.9999	1.0000	0.9748	0.01	0.21	0.26	Snell. 'zx'= 35
5U	409	-60	452	1	0.9219	0.0000	0.0000	0.0000	0.9662	--	0.08	--	Snell. 'zx'= 35
5V	409	-60	-1195	1	0.9219	0.0000	0.0000	0.0000	0.9748	--	0.20	--	Snell. 'zx'= 35
5W	409	60	452	1	0.9219	0.0000	0.0000	0.0000	0.9662	--	0.08	--	Snell. 'zx'= 35
5X	409	60	-1195	1	0.9219	0.0000	0.0000	0.0000	0.9748	--	0.20	--	Snell. 'zx'= 35

ASTA NUM. 8 NI 8 NF 10 Lungh. 50.0 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	24	251	-9	0	0	-117	1	0.01	0.00	0.02	
2	0	25	252	-25	0	-6	-117	1	0.01	0.00	0.02	

3	0	17	171	-10	0	-1	-78	1	0.01	0.00	0.01
4	0	18	172	-36	0	-12	-79	1	0.01	0.00	0.01
5A	0	-152	58	127	0	51	-23	1	0.00	0.00	0.04
5B	0	-152	167	127	0	51	-78	1	0.01	0.00	0.04
5C	0	-152	58	-132	0	-50	-23	1	0.00	0.00	0.04
5D	0	-152	167	-132	0	-50	-78	1	0.01	0.00	0.04
5E	0	173	58	127	0	51	-23	1	0.00	0.00	0.04
5F	0	173	167	127	0	51	-78	1	0.01	0.00	0.04
5G	0	173	58	-132	0	-50	-23	1	0.00	0.00	0.04
5H	0	173	167	-132	0	-50	-78	1	0.01	0.00	0.04
5I	0	-95	59	144	0	60	-24	1	0.01	0.00	0.05
5J	0	-95	165	144	0	60	-76	1	0.01	0.00	0.05
5K	0	-95	59	-149	0	-59	-24	1	0.01	0.00	0.05
5L	0	-95	165	-149	0	-59	-76	1	0.01	0.00	0.05
5M	0	117	59	144	0	60	-24	1	0.01	0.00	0.05
5N	0	117	165	144	0	60	-76	1	0.01	0.00	0.05
5O	0	117	59	-149	0	-59	-24	1	0.01	0.00	0.05
5P	0	117	165	-149	0	-59	-76	1	0.01	0.00	0.05
5Q	0	-94	-15	149	0	61	14	1	0.01	0.00	0.05
5R	0	-94	239	149	0	61	-114	1	0.01	0.00	0.05
5S	0	-94	-15	-154	0	-59	14	1	0.01	0.00	0.05
5T	0	-94	239	-154	0	-59	-114	1	0.01	0.00	0.05
5U	0	115	-15	149	0	61	14	1	0.01	0.00	0.05
5V	0	115	239	149	0	61	-114	1	0.01	0.00	0.05
5W	0	115	-15	-154	0	-59	14	1	0.01	0.00	0.05
5X	0	115	239	-154	0	-59	-114	1	0.01	0.00	0.05
1	25	23	244	-9	0	3	-55	1	0.01	0.00	0.01
2	25	24	244	-25	0	0	-55	1	0.01	0.00	0.01
3	25	16	163	-10	0	1	-36	1	0.01	0.00	0.01
4	25	18	164	-36	0	-3	-37	1	0.01	0.00	0.01
5A	25	-153	51	127	0	19	-8	1	0.00	0.00	0.02
5B	25	-153	159	127	0	19	-38	1	0.01	0.00	0.02
5C	25	-153	51	-132	0	-16	-8	1	0.00	0.00	0.01
5D	25	-153	159	-132	0	-16	-38	1	0.01	0.00	0.01
5E	25	173	51	127	0	19	-8	1	0.00	0.00	0.02
5F	25	173	159	127	0	19	-38	1	0.01	0.00	0.02
5G	25	173	51	-132	0	-16	-8	1	0.00	0.00	0.01
5H	25	173	159	-132	0	-16	-38	1	0.01	0.00	0.01
5I	25	-96	52	144	0	24	-13	1	0.01	0.00	0.02
5J	25	-96	158	144	0	24	-34	1	0.01	0.00	0.02
5K	25	-96	52	-149	0	-21	-13	1	0.01	0.00	0.02
5L	25	-96	158	-149	0	-21	-34	1	0.01	0.00	0.02
5M	25	116	52	144	0	24	-13	1	0.01	0.00	0.02
5N	25	116	158	144	0	24	-34	1	0.01	0.00	0.02
5O	25	116	52	-149	0	-21	-13	1	0.01	0.00	0.02
5P	25	116	158	-149	0	-21	-34	1	0.01	0.00	0.02
5Q	25	-95	-22	149	0	23	11	1	0.01	0.00	0.02
5R	25	-95	232	149	0	23	-58	1	0.01	0.00	0.02
5S	25	-95	-22	-154	0	-21	11	1	0.01	0.00	0.02
5T	25	-95	232	-154	0	-21	-58	1	0.01	0.00	0.02
5U	25	115	-22	149	0	23	11	1	0.01	0.00	0.02
5V	25	115	232	149	0	23	-58	1	0.01	0.00	0.02
5W	25	115	-22	-154	0	-21	11	1	0.01	0.00	0.02
5X	25	115	232	-154	0	-21	-58	1	0.01	0.00	0.02
1	50	23	237	-9	0	5	5	1	0.01	0.00	0.00
2	50	24	237	-25	0	6	5	1	0.01	0.00	0.01
3	50	15	156	-10	0	4	4	1	0.01	0.00	0.00
4	50	17	157	-36	0	6	3	1	0.01	0.00	0.01
5A	50	-154	43	127	0	-13	5	1	0.00	0.00	0.01
5B	50	-154	152	127	0	-13	-1	1	0.01	0.00	0.01
5C	50	-154	43	-132	0	17	5	1	0.00	0.00	0.01
5D	50	-154	152	-132	0	17	-1	1	0.01	0.00	0.01
5E	50	172	43	127	0	-13	5	1	0.00	0.00	0.01
5F	50	172	152	127	0	-13	-1	1	0.01	0.00	0.01
5G	50	172	43	-132	0	17	5	1	0.00	0.00	0.01
5H	50	172	152	-132	0	17	-1	1	0.01	0.00	0.01
5I	50	-97	45	144	0	-13	-3	1	0.01	0.00	0.01
5J	50	-97	151	144	0	-13	7	1	0.01	0.00	0.01
5K	50	-97	45	-149	0	16	-3	1	0.01	0.00	0.01
5L	50	-97	151	-149	0	16	7	1	0.01	0.00	0.01
5M	50	115	45	144	0	-13	-3	1	0.01	0.00	0.01
5N	50	115	151	144	0	-13	7	1	0.01	0.00	0.01
5O	50	115	45	-149	0	16	-3	1	0.01	0.00	0.01
5P	50	115	151	-149	0	16	7	1	0.01	0.00	0.01
5Q	50	-95	-29	149	0	-15	7	1	0.01	0.00	0.01
5R	50	-95	225	149	0	-15	-3	1	0.01	0.00	0.01
5S	50	-95	-29	-154	0	18	7	1	0.01	0.00	0.02
5T	50	-95	225	-154	0	18	-3	1	0.01	0.00	0.02
5U	50	114	-29	149	0	-15	7	1	0.01	0.00	0.01
5V	50	114	225	149	0	-15	-3	1	0.01	0.00	0.01
5W	50	114	-29	-154	0	18	7	1	0.01	0.00	0.02
5X	50	114	225	-154	0	18	-3	1	0.01	0.00	0.02

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota

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	kg	kg*m												
1	24	5	-117	1	0.0000	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'=	0
2	25	6	-117	1	0.0000	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'=	0
3	17	4	-78	1	0.0000	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'=	0
4	18	-12	-79	1	0.0000	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'=	0
5A	-154	51	-23	1	0.9784	0.9989	0.9998	1.0000	1.0000	0.00	0.00	0.05	Snell. 'zx'=	22
5B	-154	51	-78	1	0.9784	0.9989	0.9998	1.0000	1.0000	0.00	0.01	0.06	Snell. 'zx'=	22
5C	-154	-50	-23	1	0.9784	0.9989	0.9998	1.0000	1.0000	0.00	0.00	0.05	Snell. 'zx'=	22
5D	-154	-50	-78	1	0.9784	0.9989	0.9998	1.0000	1.0000	0.00	0.01	0.06	Snell. 'zx'=	22
5E	173	51	-23	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'=	22
5F	173	51	-78	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'=	22
5G	173	-50	-23	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'=	22
5H	173	-50	-78	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'=	22
5I	-97	60	-24	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.00	0.06	Snell. 'zx'=	22
5J	-97	60	-76	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.01	0.06	Snell. 'zx'=	22
5K	-97	-59	-24	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.00	0.06	Snell. 'zx'=	22
5L	-97	-59	-76	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.01	0.06	Snell. 'zx'=	22
5M	117	60	-24	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'=	22
5N	117	60	-76	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'=	22
5O	117	-59	-24	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'=	22
5P	117	-59	-76	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'=	22
5Q	-95	61	14	1	0.9784	0.9993	0.9999	1.0000	0.9998	0.00	0.00	0.05	Snell. 'zx'=	22
5R	-95	61	-114	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.02	0.07	Snell. 'zx'=	22
5S	-95	-59	14	1	0.9784	0.9993	0.9999	1.0000	0.9998	0.00	0.00	0.05	Snell. 'zx'=	22
5T	-95	-59	-114	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.02	0.07	Snell. 'zx'=	22
5U	115	61	14	1	0.9784	0.0000	0.0000	0.0000	0.9998	--	0.00	--	Snell. 'zx'=	22
5V	115	61	-114	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'=	22
5W	115	-59	14	1	0.9784	0.0000	0.0000	0.0000	0.9998	--	0.00	--	Snell. 'zx'=	22
5X	115	-59	-114	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'=	22

ASTA NUM. 9 NI 16 NF 17 Lungh. 50.0 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
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	cm	kg			kg*m							
1	0	68	797	24	0	10	-405	1	0.04	0.00	0.07	
2	0	67	796	-5	0	-2	-404	1	0.04	0.00	0.07	
3	0	45	533	15	0	7	-269	1	0.02	0.00	0.05	
4	0	42	531	-33	0	-14	-268	1	0.02	0.00	0.05	
5A	0	-243	229	149	0	64	-117	1	0.01	0.00	0.05	
5B	0	-243	446	149	0	64	-221	1	0.02	0.00	0.06	
5C	0	-243	229	-129	0	-55	-117	1	0.01	0.00	0.05	
5D	0	-243	446	-129	0	-55	-221	1	0.02	0.00	0.05	
5E	0	301	229	149	0	64	-117	1	0.01	0.00	0.05	
5F	0	301	446	149	0	64	-221	1	0.02	0.00	0.06	
5G	0	301	229	-129	0	-55	-117	1	0.01	0.00	0.05	
5H	0	301	446	-129	0	-55	-221	1	0.02	0.00	0.05	
5I	0	-72	231	296	0	130	-117	1	0.01	0.00	0.11	
5J	0	-72	445	296	0	130	-221	1	0.02	0.00	0.11	
5K	0	-72	231	-275	0	-121	-117	1	0.01	0.00	0.10	
5L	0	-72	445	-275	0	-121	-221	1	0.02	0.00	0.10	
5M	0	130	231	296	0	130	-117	1	0.01	0.00	0.11	
5N	0	130	445	296	0	130	-221	1	0.02	0.00	0.11	
5O	0	130	231	-275	0	-121	-117	1	0.01	0.00	0.10	
5P	0	130	445	-275	0	-121	-221	1	0.02	0.00	0.10	
5Q	0	-102	73	256	0	109	-39	1	0.01	0.00	0.09	
5R	0	-102	602	256	0	109	-299	1	0.03	0.00	0.09	
5S	0	-102	73	-236	0	-100	-39	1	0.01	0.00	0.08	
5T	0	-102	602	-236	0	-100	-299	1	0.03	0.00	0.09	
5U	0	160	73	256	0	109	-39	1	0.01	0.00	0.09	
5V	0	160	602	256	0	109	-299	1	0.03	0.00	0.09	
5W	0	160	73	-236	0	-100	-39	1	0.01	0.00	0.08	
5X	0	160	602	-236	0	-100	-299	1	0.03	0.00	0.09	
1	25	68	790	24	0	5	-206	1	0.04	0.00	0.04	
2	25	66	789	-5	0	-1	-206	1	0.04	0.00	0.03	
3	25	45	525	15	0	3	-137	1	0.02	0.00	0.02	
4	25	42	523	-33	0	-6	-136	1	0.02	0.00	0.02	
5A	25	-244	222	149	0	26	-62	1	0.01	0.00	0.02	
5B	25	-244	439	149	0	26	-110	1	0.02	0.00	0.02	
5C	25	-244	222	-129	0	-22	-62	1	0.01	0.00	0.02	
5D	25	-244	439	-129	0	-22	-110	1	0.02	0.00	0.02	
5E	25	301	222	149	0	26	-62	1	0.01	0.00	0.02	
5F	25	301	439	149	0	26	-110	1	0.02	0.00	0.02	
5G	25	301	222	-129	0	-22	-62	1	0.01	0.00	0.02	
5H	25	301	439	-129	0	-22	-110	1	0.02	0.00	0.02	
5I	25	-72	223	296	0	54	-62	1	0.01	0.00	0.05	
5J	25	-72	437	296	0	54	-109	1	0.02	0.00	0.05	
5K	25	-72	223	-275	0	-50	-62	1	0.01	0.00	0.04	
5L	25	-72	437	-275	0	-50	-109	1	0.02	0.00	0.04	
5M	25	129	223	296	0	54	-62	1	0.01	0.00	0.05	

5N	25	129	437	296	0	54	-109	1	0.02	0.00	0.05
5O	25	129	223	-275	0	-50	-62	1	0.01	0.00	0.04
5P	25	129	437	-275	0	-50	-109	1	0.02	0.00	0.04
5Q	25	-103	66	256	0	44	-25	1	0.01	0.00	0.04
5R	25	-103	595	256	0	44	-147	1	0.03	0.00	0.04
5S	25	-103	66	-236	0	-40	-25	1	0.01	0.00	0.03
5T	25	-103	595	-236	0	-40	-147	1	0.03	0.00	0.03
5U	25	160	66	256	0	44	-25	1	0.01	0.00	0.04
5V	25	160	595	256	0	44	-147	1	0.03	0.00	0.04
5W	25	160	66	-236	0	-40	-25	1	0.01	0.00	0.03
5X	25	160	595	-236	0	-40	-147	1	0.03	0.00	0.03
1	50	67	783	24	0	-1	-10	1	0.04	0.00	0.00
2	50	65	782	-5	0	1	-9	1	0.04	0.00	0.00
3	50	44	518	15	0	-1	-7	1	0.02	0.00	0.00
4	50	41	516	-33	0	2	-6	1	0.02	0.00	0.00
5A	50	-244	215	149	0	-12	-8	1	0.01	0.00	0.01
5B	50	-244	431	149	0	-12	0	1	0.02	0.00	0.01
5C	50	-244	215	-129	0	11	-8	1	0.01	0.00	0.01
5D	50	-244	431	-129	0	11	0	1	0.02	0.00	0.01
5E	50	300	215	149	0	-12	-8	1	0.01	0.00	0.01
5F	50	300	431	149	0	-12	0	1	0.02	0.00	0.01
5G	50	300	215	-129	0	11	-8	1	0.01	0.00	0.01
5H	50	300	431	-129	0	11	0	1	0.02	0.00	0.01
5I	50	-73	216	296	0	-22	-9	1	0.01	0.00	0.02
5J	50	-73	430	296	0	-22	1	1	0.02	0.00	0.02
5K	50	-73	216	-275	0	21	-9	1	0.01	0.00	0.02
5L	50	-73	430	-275	0	21	1	1	0.02	0.00	0.02
5M	50	129	216	296	0	-22	-9	1	0.01	0.00	0.02
5N	50	129	430	296	0	-22	1	1	0.02	0.00	0.02
5O	50	129	216	-275	0	21	-9	1	0.01	0.00	0.02
5P	50	129	430	-275	0	21	1	1	0.02	0.00	0.02
5Q	50	-103	58	256	0	-22	-12	1	0.01	0.00	0.02
5R	50	-103	588	256	0	-22	4	1	0.03	0.00	0.02
5S	50	-103	58	-236	0	20	-12	1	0.01	0.00	0.02
5T	50	-103	588	-236	0	20	4	1	0.03	0.00	0.02
5U	50	159	58	256	0	-22	-12	1	0.01	0.00	0.02
5V	50	159	588	256	0	-22	4	1	0.03	0.00	0.02
5W	50	159	58	-236	0	20	-12	1	0.01	0.00	0.02
5X	50	159	588	-236	0	20	4	1	0.03	0.00	0.02

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	68	10	-405	1	0.0000	0.0000	0.0000	0.0000	1.0000	--	0.07	--	Snell. 'zx'= 0
2	67	-2	-404	1	0.0000	0.0000	0.0000	0.0000	1.0000	--	0.07	--	Snell. 'zx'= 0
3	45	7	-269	1	0.0000	0.0000	0.0000	0.0000	1.0000	--	0.05	--	Snell. 'zx'= 0
4	42	-14	-268	1	0.0000	0.0000	0.0000	0.0000	1.0000	--	0.05	--	Snell. 'zx'= 0
5A	-244	64	-117	1	0.9784	0.9984	0.9997	1.0000	1.0000	0.00	0.02	0.08	Snell. 'zx'= 22
5B	-244	64	-221	1	0.9784	0.9984	0.9997	1.0000	1.0000	0.00	0.04	0.09	Snell. 'zx'= 22
5C	-244	-55	-117	1	0.9784	0.9983	0.9997	1.0000	1.0000	0.00	0.02	0.07	Snell. 'zx'= 22
5D	-244	-55	-221	1	0.9784	0.9983	0.9997	1.0000	1.0000	0.00	0.04	0.09	Snell. 'zx'= 22
5E	301	64	-117	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'= 22
5F	301	64	-221	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.03	--	Snell. 'zx'= 22
5G	301	-55	-117	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'= 22
5H	301	-55	-221	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.03	--	Snell. 'zx'= 22
5I	-73	130	-117	1	0.9784	0.9995	0.9999	1.0000	1.0000	0.00	0.02	0.13	Snell. 'zx'= 22
5J	-73	130	-221	1	0.9784	0.9995	0.9999	1.0000	1.0000	0.00	0.04	0.15	Snell. 'zx'= 22
5K	-73	-121	-117	1	0.9784	0.9995	0.9999	1.0000	1.0000	0.00	0.02	0.12	Snell. 'zx'= 22
5L	-73	-121	-221	1	0.9784	0.9995	0.9999	1.0000	1.0000	0.00	0.04	0.14	Snell. 'zx'= 22
5M	130	130	-117	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'= 22
5N	130	130	-221	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.04	--	Snell. 'zx'= 22
5O	130	-121	-117	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'= 22
5P	130	-121	-221	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.04	--	Snell. 'zx'= 22
5Q	-103	109	-39	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.01	0.10	Snell. 'zx'= 22
5R	-103	109	-299	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.05	0.14	Snell. 'zx'= 22
5S	-103	-100	-39	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.01	0.09	Snell. 'zx'= 22
5T	-103	-100	-299	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.05	0.14	Snell. 'zx'= 22
5U	160	109	-39	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5V	160	109	-299	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.05	--	Snell. 'zx'= 22
5W	160	-100	-39	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5X	160	-100	-299	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.05	--	Snell. 'zx'= 22

ASTA NUM. 10 NI 18 NF 19 Lungh. 50.0 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							

1	0	24	251	-14	0	-11	-117	1	0.01	0.00	0.02
2	0	25	252	30	0	9	-118	1	0.01	0.00	0.02
3	0	16	171	-5	0	-5	-79	1	0.01	0.00	0.01
4	0	18	172	70	0	27	-79	1	0.01	0.00	0.02
5A	0	-152	72	164	0	64	-30	1	0.01	0.00	0.05
5B	0	-152	152	164	0	64	-71	1	0.01	0.00	0.05
5C	0	-152	72	-179	0	-74	-30	1	0.01	0.00	0.06
5D	0	-152	152	-179	0	-74	-71	1	0.01	0.00	0.06
5E	0	173	72	164	0	64	-30	1	0.01	0.00	0.05
5F	0	173	152	164	0	64	-71	1	0.01	0.00	0.05
5G	0	173	72	-179	0	-74	-30	1	0.01	0.00	0.06
5H	0	173	152	-179	0	-74	-71	1	0.01	0.00	0.06
5I	0	-96	74	221	0	89	-32	1	0.01	0.00	0.07
5J	0	-96	150	221	0	89	-70	1	0.01	0.00	0.07
5K	0	-96	74	-237	0	-99	-32	1	0.01	0.00	0.08
5L	0	-96	150	-237	0	-99	-70	1	0.01	0.00	0.08
5M	0	117	74	221	0	89	-32	1	0.01	0.00	0.07
5N	0	117	150	221	0	89	-70	1	0.01	0.00	0.07
5O	0	117	74	-237	0	-99	-32	1	0.01	0.00	0.08
5P	0	117	150	-237	0	-99	-70	1	0.01	0.00	0.08
5Q	0	-96	30	185	0	74	-9	1	0.01	0.00	0.06
5R	0	-96	194	185	0	74	-92	1	0.01	0.00	0.06
5S	0	-96	30	-200	0	-84	-9	1	0.01	0.00	0.07
5T	0	-96	194	-200	0	-84	-92	1	0.01	0.00	0.07
5U	0	117	30	185	0	74	-9	1	0.01	0.00	0.06
5V	0	117	194	185	0	74	-92	1	0.01	0.00	0.06
5W	0	117	30	-200	0	-84	-9	1	0.01	0.00	0.07
5X	0	117	194	-200	0	-84	-92	1	0.01	0.00	0.07
1	25	23	244	-14	0	-7	-56	1	0.01	0.00	0.01
2	25	24	244	30	0	1	-56	1	0.01	0.00	0.01
3	25	16	163	-5	0	-4	-37	1	0.01	0.00	0.01
4	25	17	164	70	0	10	-37	1	0.01	0.00	0.01
5A	25	-153	65	164	0	22	-12	1	0.01	0.00	0.02
5B	25	-153	145	164	0	22	-35	1	0.01	0.00	0.02
5C	25	-153	65	-179	0	-29	-12	1	0.01	0.00	0.02
5D	25	-153	145	-179	0	-29	-35	1	0.01	0.00	0.02
5E	25	173	65	164	0	22	-12	1	0.01	0.00	0.02
5F	25	173	145	164	0	22	-35	1	0.01	0.00	0.02
5G	25	173	65	-179	0	-29	-12	1	0.01	0.00	0.02
5H	25	173	145	-179	0	-29	-35	1	0.01	0.00	0.02
5I	25	-97	67	221	0	33	-15	1	0.01	0.00	0.03
5J	25	-97	143	221	0	33	-32	1	0.01	0.00	0.03
5K	25	-97	67	-237	0	-39	-15	1	0.01	0.00	0.03
5L	25	-97	143	-237	0	-39	-32	1	0.01	0.00	0.03
5M	25	117	67	221	0	33	-15	1	0.01	0.00	0.03
5N	25	117	143	221	0	33	-32	1	0.01	0.00	0.03
5O	25	117	67	-237	0	-39	-15	1	0.01	0.00	0.03
5P	25	117	143	-237	0	-39	-32	1	0.01	0.00	0.03
5Q	25	-96	23	185	0	28	-0	1	0.01	0.00	0.02
5R	25	-96	187	185	0	28	-47	1	0.01	0.00	0.02
5S	25	-96	23	-200	0	-34	-0	1	0.01	0.00	0.03
5T	25	-96	187	-200	0	-34	-47	1	0.01	0.00	0.03
5U	25	116	23	185	0	28	-0	1	0.01	0.00	0.02
5V	25	116	187	185	0	28	-47	1	0.01	0.00	0.02
5W	25	116	23	-200	0	-34	-0	1	0.01	0.00	0.03
5X	25	116	187	-200	0	-34	-47	1	0.01	0.00	0.03
1	50	23	237	-14	0	-3	5	1	0.01	0.00	0.00
2	50	24	237	30	0	-6	4	1	0.01	0.00	0.01
3	50	15	156	-5	0	-3	3	1	0.01	0.00	0.00
4	50	17	157	70	0	-8	3	1	0.01	0.00	0.01
5A	50	-154	58	164	0	-19	4	1	0.01	0.00	0.02
5B	50	-154	138	164	0	-19	-1	1	0.01	0.00	0.02
5C	50	-154	58	-179	0	16	4	1	0.01	0.00	0.01
5D	50	-154	138	-179	0	16	-1	1	0.01	0.00	0.01
5E	50	172	58	164	0	-19	4	1	0.01	0.00	0.02
5F	50	172	138	164	0	-19	-1	1	0.01	0.00	0.02
5G	50	172	58	-179	0	16	4	1	0.01	0.00	0.01
5H	50	172	138	-179	0	16	-1	1	0.01	0.00	0.01
5I	50	-98	59	221	0	-23	-1	1	0.01	0.00	0.02
5J	50	-98	136	221	0	-23	5	1	0.01	0.00	0.02
5K	50	-98	59	-237	0	20	-1	1	0.01	0.00	0.02
5L	50	-98	136	-237	0	20	5	1	0.01	0.00	0.02
5M	50	116	59	221	0	-23	-1	1	0.01	0.00	0.02
5N	50	116	136	221	0	-23	5	1	0.01	0.00	0.02
5O	50	116	59	-237	0	20	-1	1	0.01	0.00	0.02
5P	50	116	136	-237	0	20	5	1	0.01	0.00	0.02
5Q	50	-97	16	185	0	-19	7	1	0.01	0.00	0.02
5R	50	-97	180	185	0	-19	-3	1	0.01	0.00	0.02
5S	50	-97	16	-200	0	17	7	1	0.01	0.00	0.01
5T	50	-97	180	-200	0	17	-3	1	0.01	0.00	0.01
5U	50	116	16	185	0	-19	7	1	0.01	0.00	0.02
5V	50	116	180	185	0	-19	-3	1	0.01	0.00	0.02
5W	50	116	16	-200	0	17	7	1	0.01	0.00	0.01
5X	50	116	180	-200	0	17	-3	1	0.01	0.00	0.01

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	24	-11	-117	1	0.0000	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'= 0
2	25	9	-118	1	0.0000	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'= 0
3	16	-5	-79	1	0.0000	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 0
4	18	27	-79	1	0.0000	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 0
5A	-154	64	-30	1	0.9784	0.9989	0.9998	1.0000	1.0000	0.00	0.01	0.06	Snell. 'zx'= 22
5B	-154	64	-71	1	0.9784	0.9989	0.9998	1.0000	1.0000	0.00	0.01	0.07	Snell. 'zx'= 22
5C	-154	-74	-30	1	0.9784	0.9989	0.9998	1.0000	1.0000	0.00	0.01	0.07	Snell. 'zx'= 22
5D	-154	-74	-71	1	0.9784	0.9989	0.9998	1.0000	1.0000	0.00	0.01	0.08	Snell. 'zx'= 22
5E	173	64	-30	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5F	173	64	-71	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5G	173	-74	-30	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5H	173	-74	-71	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5I	-98	89	-32	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.01	0.08	Snell. 'zx'= 22
5J	-98	89	-70	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.01	0.09	Snell. 'zx'= 22
5K	-98	-99	-32	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.01	0.09	Snell. 'zx'= 22
5L	-98	-99	-70	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.01	0.10	Snell. 'zx'= 22
5M	117	89	-32	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5N	117	89	-70	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5O	117	-99	-32	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5P	117	-99	-70	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5Q	-97	74	-9	1	0.9784	0.9993	0.9998	1.0000	1.0000	0.00	0.00	0.07	Snell. 'zx'= 22
5R	-97	74	-92	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.02	0.08	Snell. 'zx'= 22
5S	-97	-84	-9	1	0.9784	0.9993	0.9998	1.0000	1.0000	0.00	0.00	0.07	Snell. 'zx'= 22
5T	-97	-84	-92	1	0.9784	0.9993	0.9999	1.0000	1.0000	0.00	0.02	0.09	Snell. 'zx'= 22
5U	117	74	-9	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5V	117	74	-92	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5W	117	-84	-9	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5X	117	-84	-92	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22

ASTA NUM. 11 NI 20 NF 16 Lungh. 78.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-859	-2010	-21	0	-6	-608	1	0.09	0.01	0.10	
2	0	-834	-1967	4	0	1	-489	1	0.09	0.01	0.08	
3	0	-609	-1399	-13	0	-4	-528	1	0.06	0.01	0.09	
4	0	-567	-1327	28	0	8	-329	1	0.06	0.01	0.06	
5A	0	-1012	-1193	112	0	34	670	1	0.06	0.01	0.11	
5B	0	-1012	-532	112	0	34	-1110	1	0.02	0.01	0.19	
5C	0	-1012	-1193	-130	0	-39	670	1	0.06	0.01	0.11	
5D	0	-1012	-532	-130	0	-39	-1110	1	0.02	0.01	0.19	
5E	0	273	-1193	112	0	34	670	1	0.06	0.00	0.11	
5F	0	273	-532	112	0	34	-1110	1	0.02	0.00	0.19	
5G	0	273	-1193	-130	0	-39	670	1	0.06	0.00	0.11	
5H	0	273	-532	-130	0	-39	-1110	1	0.02	0.00	0.19	
5I	0	-737	-1251	249	0	76	177	1	0.06	0.01	0.06	
5J	0	-737	-474	249	0	76	-617	1	0.02	0.01	0.10	
5K	0	-737	-1251	-267	0	-81	177	1	0.06	0.01	0.07	
5L	0	-737	-474	-267	0	-81	-617	1	0.02	0.01	0.10	
5M	0	-2	-1251	249	0	76	177	1	0.06	0.00	0.06	
5N	0	-2	-474	249	0	76	-617	1	0.02	0.00	0.10	
5O	0	-2	-1251	-267	0	-81	177	1	0.06	0.00	0.07	
5P	0	-2	-474	-267	0	-81	-617	1	0.02	0.00	0.10	
5Q	0	-859	-1442	200	0	59	269	1	0.07	0.01	0.05	
5R	0	-859	-284	200	0	59	-710	1	0.01	0.01	0.12	
5S	0	-859	-1442	-218	0	-64	269	1	0.07	0.01	0.06	
5T	0	-859	-284	-218	0	-64	-710	1	0.01	0.01	0.12	
5U	0	120	-1442	200	0	59	269	1	0.07	0.00	0.05	
5V	0	120	-284	200	0	59	-710	1	0.01	0.00	0.12	
5W	0	120	-1442	-218	0	-64	269	1	0.07	0.00	0.06	
5X	0	120	-284	-218	0	-64	-710	1	0.01	0.00	0.12	
1	39	-860	-2022	-21	0	2	-1402	1	0.09	0.01	0.24	
2	39	-835	-1978	4	0	-0	-1266	1	0.09	0.01	0.21	
3	39	-610	-1411	-13	0	2	-1081	1	0.07	0.01	0.18	
4	39	-568	-1339	28	0	-3	-854	1	0.06	0.01	0.14	
5A	39	-1013	-1205	112	0	-11	451	1	0.06	0.01	0.08	
5B	39	-1013	-544	112	0	-11	-1576	1	0.03	0.01	0.27	
5C	39	-1013	-1205	-130	0	13	451	1	0.06	0.01	0.08	
5D	39	-1013	-544	-130	0	13	-1576	1	0.03	0.01	0.27	
5E	39	272	-1205	112	0	-11	451	1	0.06	0.00	0.08	
5F	39	272	-544	112	0	-11	-1576	1	0.03	0.00	0.27	
5G	39	272	-1205	-130	0	13	451	1	0.06	0.00	0.08	
5H	39	272	-544	-130	0	13	-1576	1	0.03	0.00	0.27	
5I	39	-738	-1263	249	0	-22	-19	1	0.06	0.01	0.02	
5J	39	-738	-486	249	0	-22	-1106	1	0.02	0.01	0.19	

5K	39	-738	-1263	-267	0	24	-19	1	0.06	0.01	0.02
5L	39	-738	-486	-267	0	24	-1106	1	0.02	0.01	0.19
5M	39	-3	-1263	249	0	-22	-19	1	0.06	0.00	0.02
5N	39	-3	-486	249	0	-22	-1106	1	0.02	0.00	0.19
5O	39	-3	-1263	-267	0	24	-19	1	0.06	0.00	0.02
5P	39	-3	-486	-267	0	24	-1106	1	0.02	0.00	0.19
5Q	39	-860	-1453	200	0	-21	144	1	0.07	0.01	0.02
5R	39	-860	-295	200	0	-21	-1269	1	0.01	0.01	0.22
5S	39	-860	-1453	-218	0	23	144	1	0.07	0.01	0.02
5T	39	-860	-295	-218	0	23	-1269	1	0.01	0.01	0.22
5U	39	119	-1453	200	0	-21	144	1	0.07	0.00	0.02
5V	39	119	-295	200	0	-21	-1269	1	0.01	0.00	0.22
5W	39	119	-1453	-218	0	23	144	1	0.07	0.00	0.02
5X	39	119	-295	-218	0	23	-1269	1	0.01	0.00	0.22
1	79	-861	-2033	-21	0	11	-2200	1	0.09	0.01	0.37
2	79	-836	-1989	4	0	-2	-2047	1	0.09	0.01	0.35
3	79	-611	-1422	-13	0	7	-1639	1	0.07	0.01	0.28
4	79	-569	-1350	28	0	-14	-1383	1	0.06	0.01	0.23
5A	79	-1014	-1216	112	0	-55	228	1	0.06	0.01	0.05
5B	79	-1014	-555	112	0	-55	-2047	1	0.03	0.01	0.35
5C	79	-1014	-1216	-130	0	64	228	1	0.06	0.01	0.06
5D	79	-1014	-555	-130	0	64	-2047	1	0.03	0.01	0.35
5E	79	271	-1216	112	0	-55	228	1	0.06	0.00	0.05
5F	79	271	-555	112	0	-55	-2047	1	0.03	0.00	0.35
5G	79	271	-1216	-130	0	64	228	1	0.06	0.00	0.06
5H	79	271	-555	-130	0	64	-2047	1	0.03	0.00	0.35
5I	79	-739	-1274	249	0	-121	-219	1	0.06	0.01	0.10
5J	79	-739	-497	249	0	-121	-1600	1	0.02	0.01	0.27
5K	79	-739	-1274	-267	0	130	-219	1	0.06	0.01	0.11
5L	79	-739	-497	-267	0	130	-1600	1	0.02	0.01	0.27
5M	79	-4	-1274	249	0	-121	-219	1	0.06	0.00	0.10
5N	79	-4	-497	249	0	-121	-1600	1	0.02	0.00	0.27
5O	79	-4	-1274	-267	0	130	-219	1	0.06	0.00	0.11
5P	79	-4	-497	-267	0	130	-1600	1	0.02	0.00	0.27
5Q	79	-861	-1465	200	0	-100	14	1	0.07	0.01	0.08
5R	79	-861	-307	200	0	-100	-1832	1	0.01	0.01	0.31
5S	79	-861	-1465	-218	0	109	14	1	0.07	0.01	0.09
5T	79	-861	-307	-218	0	109	-1832	1	0.01	0.01	0.31
5U	79	118	-1465	200	0	-100	14	1	0.07	0.00	0.08
5V	79	118	-307	200	0	-100	-1832	1	0.01	0.00	0.31
5W	79	118	-1465	-218	0	109	14	1	0.07	0.00	0.09
5X	79	118	-307	-218	0	109	-1832	1	0.01	0.00	0.31

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-861	11	-2200	1	0.9219	0.9917	0.9995	1.0000	0.9801	0.01	0.38	0.39	Snell. 'zx'= 35
2	-836	-2	-2047	1	0.9219	0.9918	0.9994	1.0000	0.9810	0.01	0.35	0.36	Snell. 'zx'= 35
3	-611	7	-1639	1	0.9219	0.9941	0.9997	1.0000	0.9792	0.01	0.28	0.29	Snell. 'zx'= 35
4	-569	-14	-1383	1	0.9219	0.9945	0.9996	1.0000	0.9810	0.01	0.24	0.25	Snell. 'zx'= 35
5A	-1014	-55	670	1	0.9219	0.9897	0.9995	1.0000	0.9787	0.01	0.12	0.17	Snell. 'zx'= 35
5B	-1014	-55	-2047	1	0.9219	0.9897	0.9999	1.0000	0.9740	0.01	0.36	0.41	Snell. 'zx'= 35
5C	-1014	64	670	1	0.9219	0.9898	0.9995	1.0000	0.9787	0.01	0.12	0.18	Snell. 'zx'= 35
5D	-1014	64	-2047	1	0.9219	0.9898	0.9999	1.0000	0.9740	0.01	0.36	0.42	Snell. 'zx'= 35
5E	273	-55	670	1	0.9219	0.0000	0.0000	0.0000	0.9787	--	0.11	--	Snell. 'zx'= 35
5F	273	-55	-2047	1	0.9219	0.0000	0.0000	0.0000	0.9740	--	0.35	--	Snell. 'zx'= 35
5G	273	64	670	1	0.9219	0.0000	0.0000	0.0000	0.9787	--	0.11	--	Snell. 'zx'= 35
5H	273	64	-2047	1	0.9219	0.0000	0.0000	0.0000	0.9740	--	0.35	--	Snell. 'zx'= 35
5I	-739	-121	-219	1	0.9219	0.9923	0.9980	1.0000	0.9977	0.01	0.04	0.15	Snell. 'zx'= 35
5J	-739	-121	-1600	1	0.9219	0.9923	0.9997	1.0000	0.9777	0.01	0.28	0.38	Snell. 'zx'= 35
5K	-739	130	-219	1	0.9219	0.9924	0.9980	1.0000	0.9977	0.01	0.04	0.16	Snell. 'zx'= 35
5L	-739	130	-1600	1	0.9219	0.9924	0.9997	1.0000	0.9777	0.01	0.28	0.39	Snell. 'zx'= 35
5M	-4	-121	-219	1	0.9219	1.0000	1.0000	1.0000	0.9977	0.00	0.04	0.14	Snell. 'zx'= 35
5N	-4	-121	-1600	1	0.9219	1.0000	1.0000	1.0000	0.9777	0.00	0.28	0.37	Snell. 'zx'= 35
5O	-4	130	-219	1	0.9219	1.0000	1.0000	1.0000	0.9977	0.00	0.04	0.15	Snell. 'zx'= 35
5P	-4	130	-1600	1	0.9219	1.0000	1.0000	1.0000	0.9777	0.00	0.28	0.38	Snell. 'zx'= 35
5Q	-861	-100	269	1	0.9219	0.9914	0.9991	1.0000	0.9854	0.01	0.05	0.14	Snell. 'zx'= 35
5R	-861	-100	-1832	1	0.9219	0.9914	0.9996	1.0000	0.9777	0.01	0.32	0.41	Snell. 'zx'= 35
5S	-861	109	269	1	0.9219	0.9914	0.9991	1.0000	0.9854	0.01	0.05	0.15	Snell. 'zx'= 35
5T	-861	109	-1832	1	0.9219	0.9914	0.9996	1.0000	0.9777	0.01	0.32	0.41	Snell. 'zx'= 35
5U	120	-100	269	1	0.9219	0.0000	0.0000	0.0000	0.9854	--	0.05	--	Snell. 'zx'= 35
5V	120	-100	-1832	1	0.9219	0.0000	0.0000	0.0000	0.9777	--	0.32	--	Snell. 'zx'= 35
5W	120	109	269	1	0.9219	0.0000	0.0000	0.0000	0.9854	--	0.05	--	Snell. 'zx'= 35
5X	120	109	-1832	1	0.9219	0.0000	0.0000	0.0000	0.9777	--	0.32	--	Snell. 'zx'= 35

ASTA NUM. 12 NI 21 NF 18 Lungh. 78.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota

	--										
	cm		kg			kg*m					
1	0	-320	-732	21	0	7	-291	1	0.03	0.00	0.05
2	0	-285	-692	-14	0	-2	-175	1	0.03	0.00	0.03
3	0	-273	-552	11	0	4	-322	1	0.03	0.00	0.05
4	0	-215	-485	-48	0	-10	-129	1	0.02	0.00	0.02
5A	0	-905	-635	128	0	28	791	1	0.03	0.01	0.13
5B	0	-905	-24	128	0	28	-964	1	0.00	0.01	0.16
5C	0	-905	-635	-108	0	-22	791	1	0.03	0.01	0.13
5D	0	-905	-24	-108	0	-22	-964	1	0.00	0.01	0.16
5E	0	633	-635	128	0	28	791	1	0.03	0.01	0.13
5F	0	633	-24	128	0	28	-964	1	0.00	0.01	0.16
5G	0	633	-635	-108	0	-22	791	1	0.03	0.01	0.13
5H	0	633	-24	-108	0	-22	-964	1	0.00	0.01	0.16
5I	0	-507	-557	164	0	33	349	1	0.03	0.01	0.06
5J	0	-507	-101	164	0	33	-521	1	0.01	0.01	0.09
5K	0	-507	-557	-145	0	-27	349	1	0.03	0.01	0.06
5L	0	-507	-101	-145	0	-27	-521	1	0.01	0.01	0.09
5M	0	236	-557	164	0	33	349	1	0.03	0.00	0.06
5N	0	236	-101	164	0	33	-521	1	0.01	0.00	0.09
5O	0	236	-557	-145	0	-27	349	1	0.03	0.00	0.06
5P	0	236	-101	-145	0	-27	-521	1	0.01	0.00	0.09
5Q	0	-567	-676	147	0	33	359	1	0.03	0.01	0.06
5R	0	-567	17	147	0	33	-532	1	0.01	0.01	0.09
5S	0	-567	-676	-127	0	-27	359	1	0.03	0.01	0.06
5T	0	-567	17	-127	0	-27	-532	1	0.00	0.01	0.09
5U	0	296	-676	147	0	33	359	1	0.03	0.00	0.06
5V	0	296	17	147	0	33	-532	1	0.01	0.00	0.09
5W	0	296	-676	-127	0	-27	359	1	0.03	0.00	0.06
5X	0	296	17	-127	0	-27	-532	1	0.00	0.00	0.09
1	39	-321	-743	21	0	-2	-581	1	0.03	0.00	0.10
2	39	-286	-703	-14	0	4	-450	1	0.03	0.00	0.08
3	39	-274	-563	11	0	-1	-541	1	0.03	0.00	0.09
4	39	-216	-497	-48	0	9	-322	1	0.02	0.00	0.05
5A	39	-906	-646	128	0	-22	771	1	0.03	0.01	0.13
5B	39	-906	-35	128	0	-22	-1208	1	0.00	0.01	0.21
5C	39	-906	-646	-108	0	21	771	1	0.03	0.01	0.13
5D	39	-906	-35	-108	0	21	-1208	1	0.00	0.01	0.21
5E	39	632	-646	128	0	-22	771	1	0.03	0.01	0.13
5F	39	632	-35	128	0	-22	-1208	1	0.00	0.01	0.21
5G	39	632	-646	-108	0	21	771	1	0.03	0.01	0.13
5H	39	632	-35	-108	0	21	-1208	1	0.00	0.01	0.21
5I	39	-508	-569	164	0	-32	291	1	0.03	0.01	0.05
5J	39	-508	-112	164	0	-32	-727	1	0.01	0.01	0.12
5K	39	-508	-569	-145	0	31	291	1	0.03	0.01	0.05
5L	39	-508	-112	-145	0	31	-727	1	0.01	0.01	0.12
5M	39	235	-569	164	0	-32	291	1	0.03	0.00	0.05
5N	39	235	-112	164	0	-32	-727	1	0.01	0.00	0.12
5O	39	235	-569	-145	0	31	291	1	0.03	0.00	0.05
5P	39	235	-112	-145	0	31	-727	1	0.01	0.00	0.12
5Q	39	-568	-687	147	0	-25	345	1	0.03	0.01	0.06
5R	39	-568	6	147	0	-25	-782	1	0.01	0.01	0.13
5S	39	-568	-687	-127	0	24	345	1	0.03	0.01	0.06
5T	39	-568	6	-127	0	24	-782	1	0.00	0.01	0.13
5U	39	295	-687	147	0	-25	345	1	0.03	0.00	0.06
5V	39	295	6	147	0	-25	-782	1	0.01	0.00	0.13
5W	39	295	-687	-127	0	24	345	1	0.03	0.00	0.06
5X	39	295	6	-127	0	24	-782	1	0.00	0.00	0.13
1	79	-322	-754	21	0	-10	-876	1	0.03	0.00	0.15
2	79	-287	-715	-14	0	10	-729	1	0.03	0.00	0.12
3	79	-275	-575	11	0	-5	-766	1	0.03	0.00	0.13
4	79	-217	-508	-48	0	28	-520	1	0.02	0.00	0.09
5A	79	-907	-657	128	0	-73	747	1	0.03	0.01	0.13
5B	79	-907	-47	128	0	-73	-1456	1	0.00	0.01	0.25
5C	79	-907	-657	-108	0	64	747	1	0.03	0.01	0.13
5D	79	-907	-47	-108	0	64	-1456	1	0.00	0.01	0.25
5E	79	631	-657	128	0	-73	747	1	0.03	0.01	0.13
5F	79	631	-47	128	0	-73	-1456	1	0.00	0.01	0.25
5G	79	631	-657	-108	0	64	747	1	0.03	0.01	0.13
5H	79	631	-47	-108	0	64	-1456	1	0.00	0.01	0.25
5I	79	-509	-580	164	0	-98	229	1	0.03	0.01	0.08
5J	79	-509	-124	164	0	-98	-938	1	0.01	0.01	0.16
5K	79	-509	-580	-145	0	89	229	1	0.03	0.01	0.08
5L	79	-509	-124	-145	0	89	-938	1	0.01	0.01	0.16
5M	79	234	-580	164	0	-98	229	1	0.03	0.00	0.08
5N	79	234	-124	164	0	-98	-938	1	0.01	0.00	0.16
5O	79	234	-580	-145	0	89	229	1	0.03	0.00	0.08
5P	79	234	-124	-145	0	89	-938	1	0.01	0.00	0.16
5Q	79	-569	-699	147	0	-84	327	1	0.03	0.01	0.07
5R	79	-569	-5	147	0	-84	-1036	1	0.01	0.01	0.18
5S	79	-569	-699	-127	0	74	327	1	0.03	0.01	0.07
5T	79	-569	-5	-127	0	74	-1036	1	0.00	0.01	0.18
5U	79	294	-699	147	0	-84	327	1	0.03	0.00	0.07
5V	79	294	-5	147	0	-84	-1036	1	0.01	0.00	0.18
5W	79	294	-699	-127	0	74	327	1	0.03	0.00	0.07
5X	79	294	-5	-127	0	74	-1036	1	0.00	0.00	0.18

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-322	-10	-876	1	0.9219	0.9966	0.9998	1.0000	0.9789	0.00	0.15	0.16	Snell. 'zx'= 35
2	-287	10	-729	1	0.9219	0.9980	0.9998	1.0000	0.9809	0.00	0.13	0.14	Snell. 'zx'= 35
3	-275	-5	-766	1	0.9219	0.9969	0.9999	1.0000	0.9769	0.00	0.13	0.14	Snell. 'zx'= 35
4	-217	28	-520	1	0.9219	0.9982	0.9999	1.0000	0.9807	0.00	0.09	0.11	Snell. 'zx'= 35
5A	-907	-73	791	1	0.9219	0.9923	1.0006	1.0000	0.9649	0.01	0.14	0.21	Snell. 'zx'= 35
5B	-907	-73	-1456	1	0.9219	0.9923	1.0001	1.0000	0.9713	0.01	0.25	0.32	Snell. 'zx'= 35
5C	-907	64	791	1	0.9219	0.9926	1.0006	1.0000	0.9649	0.01	0.14	0.20	Snell. 'zx'= 35
5D	-907	64	-1456	1	0.9219	0.9926	1.0001	1.0000	0.9713	0.01	0.25	0.31	Snell. 'zx'= 35
5E	633	-73	791	1	0.9219	0.0000	0.0000	0.0000	0.9649	--	0.13	--	Snell. 'zx'= 35
5F	633	-73	-1456	1	0.9219	0.0000	0.0000	0.0000	0.9713	--	0.25	--	Snell. 'zx'= 35
5G	633	64	791	1	0.9219	0.0000	0.0000	0.0000	0.9649	--	0.13	--	Snell. 'zx'= 35
5H	633	64	-1456	1	0.9219	0.0000	0.0000	0.0000	0.9713	--	0.25	--	Snell. 'zx'= 35
5I	-509	-98	349	1	0.9219	0.9959	1.0001	1.0000	0.9715	0.01	0.06	0.15	Snell. 'zx'= 35
5J	-509	-98	-938	1	0.9219	0.9959	1.0000	1.0000	0.9737	0.01	0.16	0.25	Snell. 'zx'= 35
5K	-509	89	349	1	0.9219	0.9960	1.0001	1.0000	0.9715	0.01	0.06	0.14	Snell. 'zx'= 35
5L	-509	89	-938	1	0.9219	0.9960	1.0000	1.0000	0.9737	0.01	0.16	0.24	Snell. 'zx'= 35
5M	236	-98	349	1	0.9219	0.0000	0.0000	0.0000	0.9715	--	0.06	--	Snell. 'zx'= 35
5N	236	-98	-938	1	0.9219	0.0000	0.0000	0.0000	0.9737	--	0.16	--	Snell. 'zx'= 35
5O	236	89	349	1	0.9219	0.0000	0.0000	0.0000	0.9715	--	0.06	--	Snell. 'zx'= 35
5P	236	89	-938	1	0.9219	0.0000	0.0000	0.0000	0.9737	--	0.16	--	Snell. 'zx'= 35
5Q	-569	-84	359	1	0.9219	0.9951	1.0003	1.0000	0.9657	0.01	0.06	0.14	Snell. 'zx'= 35
5R	-569	-84	-1036	1	0.9219	0.9951	0.9999	1.0000	0.9746	0.01	0.18	0.25	Snell. 'zx'= 35
5S	-569	74	359	1	0.9219	0.9953	1.0003	1.0000	0.9657	0.01	0.06	0.13	Snell. 'zx'= 35
5T	-569	74	-1036	1	0.9219	0.9953	0.9999	1.0000	0.9746	0.01	0.18	0.25	Snell. 'zx'= 35
5U	296	-84	359	1	0.9219	0.0000	0.0000	0.0000	0.9657	--	0.06	--	Snell. 'zx'= 35
5V	296	-84	-1036	1	0.9219	0.0000	0.0000	0.0000	0.9746	--	0.18	--	Snell. 'zx'= 35
5W	296	74	359	1	0.9219	0.0000	0.0000	0.0000	0.9657	--	0.06	--	Snell. 'zx'= 35
5X	296	74	-1036	1	0.9219	0.0000	0.0000	0.0000	0.9746	--	0.18	--	Snell. 'zx'= 35

ASTA NUM. 13 NI 22 NF 20 Lungh. 128.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-791	-1203	3	0	0	940	1	0.06	0.01	0.16	
2	0	-765	-1161	-1	0	-0	1005	1	0.05	0.01	0.17	
3	0	-562	-853	2	0	0	578	1	0.04	0.01	0.10	
4	0	-519	-782	-5	0	-1	686	1	0.04	0.01	0.12	
5A	0	-698	-879	26	0	12	1128	1	0.04	0.01	0.19	
5B	0	-698	-137	26	0	12	-233	1	0.01	0.01	0.04	
5C	0	-698	-879	-24	0	-12	1128	1	0.04	0.01	0.19	
5D	0	-698	-137	-24	0	-12	-233	1	0.01	0.01	0.04	
5E	0	20	-879	26	0	12	1128	1	0.04	0.00	0.19	
5F	0	20	-137	26	0	12	-233	1	0.01	0.00	0.04	
5G	0	20	-879	-24	0	-12	1128	1	0.04	0.00	0.19	
5H	0	20	-137	-24	0	-12	-233	1	0.01	0.00	0.04	
5I	0	-622	-861	60	0	32	834	1	0.04	0.01	0.14	
5J	0	-622	-155	60	0	32	61	1	0.01	0.01	0.03	
5K	0	-622	-861	-58	0	-31	834	1	0.04	0.01	0.14	
5L	0	-622	-155	-58	0	-31	61	1	0.01	0.01	0.03	
5M	0	-56	-861	60	0	32	834	1	0.04	0.00	0.14	
5N	0	-56	-155	60	0	32	61	1	0.01	0.00	0.03	
5O	0	-56	-861	-58	0	-31	834	1	0.04	0.00	0.14	
5P	0	-56	-155	-58	0	-31	61	1	0.01	0.00	0.03	
5Q	0	-761	-1036	40	0	17	961	1	0.05	0.01	0.16	
5R	0	-761	20	40	0	17	-67	1	0.00	0.01	0.01	
5S	0	-761	-1036	-38	0	-17	961	1	0.05	0.01	0.16	
5T	0	-761	20	-38	0	-17	-67	1	0.00	0.01	0.01	
5U	0	83	-1036	40	0	17	961	1	0.05	0.00	0.16	
5V	0	83	20	40	0	17	-67	1	0.00	0.00	0.01	
5W	0	83	-1036	-38	0	-17	961	1	0.05	0.00	0.16	
5X	0	83	20	-38	0	-17	-67	1	0.00	0.00	0.01	
1	64	-792	-1222	3	0	-1	160	1	0.06	0.01	0.03	
2	64	-766	-1180	-1	0	0	252	1	0.05	0.01	0.04	
3	64	-564	-872	2	0	-1	22	1	0.04	0.01	0.00	
4	64	-521	-801	-5	0	2	177	1	0.04	0.01	0.03	
5A	64	-700	-898	26	0	-5	901	1	0.04	0.01	0.15	
5B	64	-700	-155	26	0	-5	-673	1	0.01	0.01	0.11	
5C	64	-700	-898	-24	0	4	901	1	0.04	0.01	0.15	
5D	64	-700	-155	-24	0	4	-673	1	0.01	0.01	0.11	
5E	64	19	-898	26	0	-5	901	1	0.04	0.00	0.15	
5F	64	19	-155	26	0	-5	-673	1	0.01	0.00	0.11	
5G	64	19	-898	-24	0	4	901	1	0.04	0.00	0.15	

5H	64	19	-155	-24	0	4	-673	1	0.01	0.00	0.11
5I	64	-624	-880	60	0	-8	105	1	0.04	0.01	0.02
5J	64	-624	-174	60	0	-8	123	1	0.01	0.01	0.02
5K	64	-624	-880	-58	0	7	105	1	0.04	0.01	0.02
5L	64	-624	-174	-58	0	7	123	1	0.01	0.01	0.02
5M	64	-58	-880	60	0	-8	105	1	0.04	0.00	0.02
5N	64	-58	-174	60	0	-8	123	1	0.01	0.00	0.02
5O	64	-58	-880	-58	0	7	105	1	0.04	0.00	0.02
5P	64	-58	-174	-58	0	7	123	1	0.01	0.00	0.02
5Q	64	-763	-1054	40	0	-9	121	1	0.05	0.01	0.02
5R	64	-763	1	40	0	-9	108	1	0.00	0.01	0.02
5S	64	-763	-1054	-38	0	8	121	1	0.05	0.01	0.02
5T	64	-763	1	-38	0	8	108	1	0.00	0.01	0.02
5U	64	81	-1054	40	0	-9	121	1	0.05	0.00	0.02
5V	64	81	1	40	0	-9	108	1	0.00	0.00	0.02
5W	64	81	-1054	-38	0	8	121	1	0.05	0.00	0.02
5X	64	81	1	-38	0	8	108	1	0.00	0.00	0.02
1	129	-794	-1241	3	0	-3	-633	1	0.06	0.01	0.11
2	129	-768	-1198	-1	0	1	-513	1	0.06	0.01	0.09
3	129	-566	-890	2	0	-2	-545	1	0.04	0.01	0.09
4	129	-522	-819	-5	0	5	-345	1	0.04	0.01	0.06
5A	129	-702	-916	26	0	-22	662	1	0.04	0.01	0.11
5B	129	-702	-174	26	0	-22	-1124	1	0.01	0.01	0.19
5C	129	-702	-916	-24	0	19	662	1	0.04	0.01	0.11
5D	129	-702	-174	-24	0	19	-1124	1	0.01	0.01	0.19
5E	129	17	-916	26	0	-22	662	1	0.04	0.00	0.11
5F	129	17	-174	26	0	-22	-1124	1	0.01	0.00	0.19
5G	129	17	-916	-24	0	19	662	1	0.04	0.00	0.11
5H	129	17	-174	-24	0	19	-1124	1	0.01	0.00	0.19
5I	129	-625	-898	60	0	-47	-635	1	0.04	0.01	0.11
5J	129	-625	-192	60	0	-47	174	1	0.01	0.01	0.04
5K	129	-625	-898	-58	0	44	-635	1	0.04	0.01	0.11
5L	129	-625	-192	-58	0	44	174	1	0.01	0.01	0.04
5M	129	-60	-898	60	0	-47	-635	1	0.04	0.00	0.11
5N	129	-60	-192	60	0	-47	174	1	0.01	0.00	0.04
5O	129	-60	-898	-58	0	44	-635	1	0.04	0.00	0.11
5P	129	-60	-192	-58	0	44	174	1	0.01	0.00	0.04
5Q	129	-765	-1073	40	0	-36	-731	1	0.05	0.01	0.12
5R	129	-765	-17	40	0	-36	270	1	0.00	0.01	0.05
5S	129	-765	-1073	-38	0	33	-731	1	0.05	0.01	0.12
5T	129	-765	-17	-38	0	33	270	1	0.00	0.01	0.05
5U	129	80	-1073	40	0	-36	-731	1	0.05	0.00	0.12
5V	129	80	-17	40	0	-36	270	1	0.00	0.00	0.05
5W	129	80	-1073	-38	0	33	-731	1	0.05	0.00	0.12
5X	129	80	-17	-38	0	33	270	1	0.00	0.00	0.05

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-794	-3	940	1	0.7999	0.9953	0.9977	0.9990	0.9701	0.01	0.16	0.17	Snell. 'zx'= 58
2	-768	1	1005	1	0.7999	0.9920	0.9981	0.9992	0.9680	0.01	0.18	0.18	Snell. 'zx'= 58
3	-566	-2	578	1	0.7999	0.9967	0.9979	0.9991	0.9692	0.01	0.10	0.11	Snell. 'zx'= 58
4	-522	5	686	1	0.7999	0.9960	0.9988	0.9995	0.9679	0.01	0.12	0.13	Snell. 'zx'= 58
5A	-702	-22	1128	1	0.7999	0.9910	1.0007	0.9992	0.9246	0.01	0.24	0.22	Snell. 'zx'= 58
5B	-702	-22	-1124	1	0.7999	0.9910	0.9999	0.9992	0.9419	0.01	0.23	0.22	Snell. 'zx'= 58
5C	-702	19	1128	1	0.7999	0.9903	1.0007	0.9992	0.9246	0.01	0.23	0.22	Snell. 'zx'= 58
5D	-702	19	-1124	1	0.7999	0.9903	0.9999	0.9992	0.9419	0.01	0.23	0.22	Snell. 'zx'= 58
5E	20	-22	1128	1	0.7999	0.0000	0.0000	0.0000	0.9246	--	0.21	--	Snell. 'zx'= 58
5F	20	-22	-1124	1	0.7999	0.0000	0.0000	0.0000	0.9419	--	0.20	--	Snell. 'zx'= 58
5G	20	19	1128	1	0.7999	0.0000	0.0000	0.0000	0.9246	--	0.21	--	Snell. 'zx'= 58
5H	20	19	-1124	1	0.7999	0.0000	0.0000	0.0000	0.9419	--	0.20	--	Snell. 'zx'= 58
5I	-625	-47	834	1	0.7999	0.9912	0.9980	0.9992	0.9709	0.01	0.15	0.19	Snell. 'zx'= 58
5J	-625	-47	174	1	0.7999	0.9912	1.0002	0.9992	0.9356	0.01	0.08	0.08	Snell. 'zx'= 58
5K	-625	44	834	1	0.7999	0.9912	0.9980	0.9992	0.9709	0.01	0.15	0.19	Snell. 'zx'= 58
5L	-625	44	174	1	0.7999	0.9912	1.0002	0.9992	0.9356	0.01	0.08	0.08	Snell. 'zx'= 58
5M	-60	-47	834	1	0.7999	0.9992	0.9998	0.9999	0.9709	0.00	0.15	0.18	Snell. 'zx'= 58
5N	-60	-47	174	1	0.7999	0.9992	1.0000	0.9999	0.9356	0.00	0.07	0.07	Snell. 'zx'= 58
5O	-60	44	834	1	0.7999	0.9992	0.9998	0.9999	0.9709	0.00	0.15	0.18	Snell. 'zx'= 58
5P	-60	44	174	1	0.7999	0.9992	1.0000	0.9999	0.9356	0.00	0.07	0.07	Snell. 'zx'= 58
5Q	-765	-36	961	1	0.7999	0.9911	0.9975	0.9990	0.9709	0.01	0.17	0.20	Snell. 'zx'= 58
5R	-765	-36	270	1	0.7999	0.9911	0.9988	0.9992	0.9602	0.01	0.05	0.09	Snell. 'zx'= 58
5S	-765	33	961	1	0.7999	0.9907	0.9975	0.9990	0.9709	0.01	0.17	0.20	Snell. 'zx'= 58
5T	-765	33	270	1	0.7999	0.9907	0.9988	0.9992	0.9602	0.01	0.05	0.09	Snell. 'zx'= 58
5U	83	-36	961	1	0.7999	0.0000	0.0000	0.0000	0.9709	--	0.17	--	Snell. 'zx'= 58
5V	83	-36	270	1	0.7999	0.0000	0.0000	0.0000	0.9602	--	0.05	--	Snell. 'zx'= 58
5W	83	33	961	1	0.7999	0.0000	0.0000	0.0000	0.9709	--	0.17	--	Snell. 'zx'= 58
5X	83	33	270	1	0.7999	0.0000	0.0000	0.0000	0.9602	--	0.05	--	Snell. 'zx'= 58

ASTA NUM. 14 NI 23 NF 21 Lungh. 128.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-293	-451	-0	0	1	327	1	0.02	0.00	0.06	
2	0	-259	-411	7	0	3	390	1	0.02	0.00	0.07	
3	0	-255	-354	1	0	1	166	1	0.02	0.00	0.03	
4	0	-197	-287	13	0	5	272	1	0.01	0.00	0.05	
5A	0	-731	-524	27	0	14	755	1	0.02	0.01	0.13	
5B	0	-731	142	27	0	14	-376	1	0.01	0.01	0.06	
5C	0	-731	-524	-28	0	-14	755	1	0.02	0.01	0.13	
5D	0	-731	142	-28	0	-14	-376	1	0.01	0.01	0.06	
5E	0	485	-524	27	0	14	755	1	0.02	0.01	0.13	
5F	0	485	142	27	0	14	-376	1	0.01	0.01	0.06	
5G	0	485	-524	-28	0	-14	755	1	0.02	0.01	0.13	
5H	0	485	142	-28	0	-14	-376	1	0.01	0.01	0.06	
5I	0	-451	-415	25	0	23	494	1	0.02	0.01	0.08	
5J	0	-451	32	25	0	23	-115	1	0.00	0.01	0.02	
5K	0	-451	-415	-26	0	-23	494	1	0.02	0.01	0.08	
5L	0	-451	32	-26	0	-23	-115	1	0.00	0.01	0.02	
5M	0	206	-415	25	0	23	494	1	0.02	0.00	0.08	
5N	0	206	32	25	0	23	-115	1	0.00	0.00	0.02	
5O	0	206	-415	-26	0	-23	494	1	0.02	0.00	0.08	
5P	0	206	32	-26	0	-23	-115	1	0.00	0.00	0.02	
5Q	0	-480	-520	31	0	15	559	1	0.02	0.01	0.09	
5R	0	-480	137	31	0	15	-180	1	0.01	0.01	0.03	
5S	0	-480	-520	-32	0	-14	559	1	0.02	0.01	0.09	
5T	0	-480	137	-32	0	-14	-180	1	0.01	0.01	0.03	
5U	0	235	-520	31	0	15	559	1	0.02	0.00	0.09	
5V	0	235	137	31	0	15	-180	1	0.01	0.00	0.03	
5W	0	235	-520	-32	0	-14	559	1	0.02	0.00	0.09	
5X	0	235	137	-32	0	-14	-180	1	0.01	0.00	0.03	
1	64	-295	-470	-0	0	1	30	1	0.02	0.00	0.01	
2	64	-260	-429	7	0	-1	120	1	0.02	0.00	0.02	
3	64	-256	-373	1	0	1	-68	1	0.02	0.00	0.01	
4	64	-198	-305	13	0	-4	82	1	0.01	0.00	0.01	
5A	64	-733	-543	27	0	-7	782	1	0.03	0.01	0.13	
5B	64	-733	123	27	0	-7	-662	1	0.01	0.01	0.11	
5C	64	-733	-543	-28	0	8	782	1	0.03	0.01	0.13	
5D	64	-733	123	-28	0	8	-662	1	0.01	0.01	0.11	
5E	64	484	-543	27	0	-7	782	1	0.03	0.01	0.13	
5F	64	484	123	27	0	-7	-662	1	0.01	0.01	0.11	
5G	64	484	-543	-28	0	8	782	1	0.03	0.01	0.13	
5H	64	484	123	-28	0	8	-662	1	0.01	0.01	0.11	
5I	64	-453	-434	25	0	30	430	1	0.02	0.01	0.07	
5J	64	-453	14	25	0	30	-310	1	0.00	0.01	0.05	
5K	64	-453	-434	-26	0	-29	430	1	0.02	0.01	0.07	
5L	64	-453	14	-26	0	-29	-310	1	0.00	0.01	0.05	
5M	64	204	-434	25	0	30	430	1	0.02	0.00	0.07	
5N	64	204	14	25	0	30	-310	1	0.00	0.00	0.05	
5O	64	204	-434	-26	0	-29	430	1	0.02	0.00	0.07	
5P	64	204	14	-26	0	-29	-310	1	0.00	0.00	0.05	
5Q	64	-482	-538	31	0	-10	467	1	0.02	0.01	0.08	
5R	64	-482	118	31	0	-10	-347	1	0.01	0.01	0.06	
5S	64	-482	-538	-32	0	11	467	1	0.02	0.01	0.08	
5T	64	-482	118	-32	0	11	-347	1	0.01	0.01	0.06	
5U	64	233	-538	31	0	-10	467	1	0.02	0.00	0.08	
5V	64	233	118	31	0	-10	-347	1	0.01	0.00	0.06	
5W	64	233	-538	-32	0	11	467	1	0.02	0.00	0.08	
5X	64	233	118	-32	0	11	-347	1	0.01	0.00	0.06	
1	129	-297	-488	-0	0	2	-278	1	0.02	0.00	0.05	
2	129	-262	-448	7	0	-6	-163	1	0.02	0.00	0.03	
3	129	-258	-391	1	0	0	-314	1	0.02	0.00	0.05	
4	129	-200	-324	13	0	-12	-121	1	0.02	0.00	0.02	
5A	129	-734	-562	27	0	-28	797	1	0.03	0.01	0.14	
5B	129	-734	104	27	0	-28	-959	1	0.00	0.01	0.16	
5C	129	-734	-562	-28	0	30	797	1	0.03	0.01	0.14	
5D	129	-734	104	-28	0	30	-959	1	0.00	0.01	0.16	
5E	129	482	-562	27	0	-28	797	1	0.03	0.01	0.14	
5F	129	482	104	27	0	-28	-959	1	0.00	0.01	0.16	
5G	129	482	-562	-28	0	30	797	1	0.03	0.01	0.14	
5H	129	482	104	-28	0	30	-959	1	0.00	0.01	0.16	
5I	129	-455	-452	25	0	37	355	1	0.02	0.01	0.06	
5J	129	-455	-5	25	0	37	-517	1	0.00	0.01	0.09	
5K	129	-455	-452	-26	0	-35	355	1	0.02	0.01	0.06	
5L	129	-455	-5	-26	0	-35	-517	1	0.00	0.01	0.09	
5M	129	202	-452	25	0	37	355	1	0.02	0.00	0.06	
5N	129	202	-5	25	0	37	-517	1	0.00	0.00	0.09	
5O	129	202	-452	-26	0	-35	355	1	0.02	0.00	0.06	
5P	129	202	-5	-26	0	-35	-517	1	0.00	0.00	0.09	
5Q	129	-484	-557	31	0	-34	363	1	0.03	0.01	0.06	
5R	129	-484	100	31	0	-34	-526	1	0.00	0.01	0.09	
5S	129	-484	-557	-32	0	36	363	1	0.03	0.01	0.06	
5T	129	-484	100	-32	0	36	-526	1	0.00	0.01	0.09	
5U	129	232	-557	31	0	-34	363	1	0.03	0.00	0.06	
5V	129	232	100	31	0	-34	-526	1	0.00	0.00	0.09	

5W	129	232	-557	-32	0	36	363	1	0.03	0.00	0.06
5X	129	232	100	-32	0	36	-526	1	0.00	0.00	0.09

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-297	2	327	1	0.7999	1.0015	0.9990	0.9996	0.9701	0.00	0.06	0.06	Snell. 'zx'= 58
2	-262	-6	390	1	0.7999	0.9965	0.9995	0.9997	0.9656	0.00	0.07	0.08	Snell. 'zx'= 58
3	-258	1	-313	1	0.7999	0.9999	0.9994	0.9997	0.9683	0.00	0.05	0.06	Snell. 'zx'= 58
4	-200	-12	272	1	0.7999	0.9979	0.9996	0.9998	0.9664	0.00	0.05	0.06	Snell. 'zx'= 58
5A	-734	-28	797	1	0.7999	0.9911	1.0016	0.9992	0.9074	0.01	0.18	0.17	Snell. 'zx'= 58
5B	-734	-28	-959	1	0.7999	0.9911	1.0003	0.9992	0.9337	0.01	0.21	0.20	Snell. 'zx'= 58
5C	-734	30	797	1	0.7999	0.9917	1.0016	0.9993	0.9074	0.01	0.19	0.17	Snell. 'zx'= 58
5D	-734	30	-959	1	0.7999	0.9917	1.0003	0.9993	0.9337	0.01	0.21	0.20	Snell. 'zx'= 58
5E	485	-28	797	1	0.7999	0.0000	0.0000	0.0000	0.9074	--	0.14	--	Snell. 'zx'= 58
5F	485	-28	-959	1	0.7999	0.0000	0.0000	0.0000	0.9337	--	0.17	--	Snell. 'zx'= 58
5G	485	30	797	1	0.7999	0.0000	0.0000	0.0000	0.9074	--	0.14	--	Snell. 'zx'= 58
5H	485	30	-959	1	0.7999	0.0000	0.0000	0.0000	0.9337	--	0.17	--	Snell. 'zx'= 58
5I	-455	37	494	1	0.7999	1.0021	1.0007	1.0000	0.9183	0.01	0.13	0.12	Snell. 'zx'= 58
5J	-455	37	-517	1	0.7999	1.0021	1.0000	0.9999	0.9411	0.01	0.13	0.13	Snell. 'zx'= 58
5K	-455	-35	494	1	0.7999	1.0022	1.0007	1.0000	0.9183	0.01	0.13	0.12	Snell. 'zx'= 58
5L	-455	-35	-517	1	0.7999	1.0022	1.0000	0.9999	0.9411	0.01	0.13	0.12	Snell. 'zx'= 58
5M	206	37	494	1	0.7999	0.0000	0.0000	0.0000	0.9183	--	0.09	--	Snell. 'zx'= 58
5N	206	37	-517	1	0.7999	0.0000	0.0000	0.0000	0.9411	--	0.09	--	Snell. 'zx'= 58
5O	206	-35	494	1	0.7999	0.0000	0.0000	0.0000	0.9183	--	0.09	--	Snell. 'zx'= 58
5P	206	-35	-517	1	0.7999	0.0000	0.0000	0.0000	0.9411	--	0.09	--	Snell. 'zx'= 58
5Q	-484	-34	559	1	0.7999	0.9947	1.0006	0.9995	0.9217	0.01	0.14	0.13	Snell. 'zx'= 58
5R	-484	-34	-526	1	0.7999	0.9947	1.0001	0.9995	0.9359	0.01	0.13	0.13	Snell. 'zx'= 58
5S	-484	36	559	1	0.7999	0.9950	1.0006	0.9996	0.9217	0.01	0.14	0.13	Snell. 'zx'= 58
5T	-484	36	-526	1	0.7999	0.9950	1.0001	0.9996	0.9359	0.01	0.13	0.13	Snell. 'zx'= 58
5U	235	-34	559	1	0.7999	0.0000	0.0000	0.0000	0.9217	--	0.10	--	Snell. 'zx'= 58
5V	235	-34	-526	1	0.7999	0.0000	0.0000	0.0000	0.9359	--	0.09	--	Snell. 'zx'= 58
5W	235	36	559	1	0.7999	0.0000	0.0000	0.0000	0.9217	--	0.10	--	Snell. 'zx'= 58
5X	235	36	-526	1	0.7999	0.0000	0.0000	0.0000	0.9359	--	0.09	--	Snell. 'zx'= 58

ASTA NUM. 15 NI 24 NF 22 Lungh. 128.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-689	-404	-1	0	-1	1464	1	0.02	0.01	0.25	
2	0	-632	-362	-0	0	-0	1475	1	0.02	0.01	0.25	
3	0	-511	-307	-1	0	-0	984	1	0.01	0.01	0.17	
4	0	-417	-237	1	0	0	1002	1	0.01	0.01	0.17	
5A	0	-775	-524	45	0	33	1040	1	0.02	0.01	0.18	
5B	0	-775	227	45	0	33	269	1	0.01	0.01	0.05	
5C	0	-775	-524	-46	0	-34	1040	1	0.02	0.01	0.18	
5D	0	-775	227	-46	0	-34	269	1	0.01	0.01	0.05	
5E	0	203	-524	45	0	33	1040	1	0.02	0.00	0.18	
5F	0	203	227	45	0	33	269	1	0.01	0.00	0.05	
5G	0	203	-524	-46	0	-34	1040	1	0.02	0.00	0.18	
5H	0	203	227	-46	0	-34	269	1	0.01	0.00	0.05	
5I	0	-568	-365	116	0	86	1065	1	0.02	0.01	0.18	
5J	0	-568	69	116	0	86	243	1	0.00	0.01	0.07	
5K	0	-568	-365	-117	0	-87	1065	1	0.02	0.01	0.18	
5L	0	-568	69	-117	0	-87	243	1	0.00	0.01	0.07	
5M	0	-4	-365	116	0	86	1065	1	0.02	0.00	0.18	
5N	0	-4	69	116	0	86	243	1	0.00	0.00	0.07	
5O	0	-4	-365	-117	0	-87	1065	1	0.02	0.00	0.18	
5P	0	-4	69	-117	0	-87	243	1	0.00	0.00	0.07	
5Q	0	-674	-439	62	0	46	1288	1	0.02	0.01	0.22	
5R	0	-674	143	62	0	46	20	1	0.01	0.01	0.04	
5S	0	-674	-439	-64	0	-46	1288	1	0.02	0.01	0.22	
5T	0	-674	143	-64	0	-46	20	1	0.01	0.01	0.04	
5U	0	101	-439	62	0	46	1288	1	0.02	0.00	0.22	
5V	0	101	143	62	0	46	20	1	0.01	0.00	0.04	
5W	0	101	-439	-64	0	-46	1288	1	0.02	0.00	0.22	
5X	0	101	143	-64	0	-46	20	1	0.01	0.00	0.04	
1	64	-690	-423	-1	0	0	1198	1	0.02	0.01	0.20	
2	64	-634	-380	-0	0	0	1236	1	0.02	0.01	0.21	
3	64	-512	-326	-1	0	0	780	1	0.02	0.01	0.13	
4	64	-419	-255	1	0	-0	844	1	0.01	0.01	0.14	
5A	64	-777	-542	45	0	4	1083	1	0.03	0.01	0.18	
5B	64	-777	209	45	0	4	22	1	0.01	0.01	0.00	
5C	64	-777	-542	-46	0	-4	1083	1	0.03	0.01	0.18	
5D	64	-777	209	-46	0	-4	22	1	0.01	0.01	0.00	

5E	64	202	-542	45	0	4	1083	1	0.03	0.00	0.18
5F	64	202	209	45	0	4	22	1	0.01	0.00	0.00
5G	64	202	-542	-46	0	-4	1083	1	0.03	0.00	0.18
5H	64	202	209	-46	0	-4	22	1	0.01	0.00	0.00
5I	64	-570	-384	116	0	11	948	1	0.02	0.01	0.16
5J	64	-570	50	116	0	11	158	1	0.00	0.01	0.03
5K	64	-570	-384	-117	0	-11	948	1	0.02	0.01	0.16
5L	64	-570	50	-117	0	-11	158	1	0.00	0.01	0.03
5M	64	-6	-384	116	0	11	948	1	0.02	0.00	0.16
5N	64	-6	50	116	0	11	158	1	0.00	0.00	0.03
5O	64	-6	-384	-117	0	-11	948	1	0.02	0.00	0.16
5P	64	-6	50	-117	0	-11	158	1	0.00	0.00	0.03
5Q	64	-675	-458	62	0	5	1121	1	0.02	0.01	0.19
5R	64	-675	124	62	0	5	-15	1	0.01	0.01	0.00
5S	64	-675	-458	-64	0	-5	1121	1	0.02	0.01	0.19
5T	64	-675	124	-64	0	-5	-15	1	0.01	0.01	0.00
5U	64	100	-458	62	0	5	1121	1	0.02	0.00	0.19
5V	64	100	124	62	0	5	-15	1	0.01	0.00	0.00
5W	64	100	-458	-64	0	-5	1121	1	0.02	0.00	0.19
5X	64	100	124	-64	0	-5	-15	1	0.01	0.00	0.00
1	129	-692	-441	-1	0	1	920	1	0.02	0.01	0.16
2	129	-636	-399	-0	0	0	985	1	0.02	0.01	0.17
3	129	-514	-344	-1	0	1	564	1	0.02	0.01	0.10
4	129	-420	-274	1	0	-1	673	1	0.01	0.01	0.11
5A	129	-779	-561	45	0	-25	1115	1	0.03	0.01	0.19
5B	129	-779	190	45	0	-25	-236	1	0.01	0.01	0.04
5C	129	-779	-561	-46	0	26	1115	1	0.03	0.01	0.19
5D	129	-779	190	-46	0	26	-236	1	0.01	0.01	0.04
5E	129	200	-561	45	0	-25	1115	1	0.03	0.00	0.19
5F	129	200	190	45	0	-25	-236	1	0.01	0.00	0.04
5G	129	200	-561	-46	0	26	1115	1	0.03	0.00	0.19
5H	129	200	190	-46	0	26	-236	1	0.01	0.00	0.04
5I	129	-572	-403	116	0	-63	818	1	0.02	0.01	0.14
5J	129	-572	32	116	0	-63	60	1	0.00	0.01	0.05
5K	129	-572	-403	-117	0	64	818	1	0.02	0.01	0.14
5L	129	-572	32	-117	0	64	60	1	0.00	0.01	0.05
5M	129	-7	-403	116	0	-63	818	1	0.02	0.00	0.14
5N	129	-7	32	116	0	-63	60	1	0.00	0.00	0.05
5O	129	-7	-403	-117	0	64	818	1	0.02	0.00	0.14
5P	129	-7	32	-117	0	64	60	1	0.00	0.00	0.05
5Q	129	-677	-476	62	0	-35	941	1	0.02	0.01	0.16
5R	129	-677	105	62	0	-35	-63	1	0.00	0.01	0.03
5S	129	-677	-476	-64	0	36	941	1	0.02	0.01	0.16
5T	129	-677	105	-64	0	36	-63	1	0.00	0.01	0.03
5U	129	98	-476	62	0	-35	941	1	0.02	0.00	0.16
5V	129	98	105	62	0	-35	-63	1	0.00	0.00	0.03
5W	129	98	-476	-64	0	36	941	1	0.02	0.00	0.16
5X	129	98	105	-64	0	36	-63	1	0.00	0.00	0.03

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-692	1	1464	1	0.7999	0.9903	1.0008	0.9992	0.9228	0.01	0.28	0.26	Snell. 'zx'= 58
2	-636	0	1475	1	0.7999	0.9910	1.0008	0.9992	0.9209	0.01	0.28	0.26	Snell. 'zx'= 58
3	-514	1	984	1	0.7999	0.9928	1.0005	0.9994	0.9252	0.01	0.19	0.18	Snell. 'zx'= 58
4	-420	-1	1002	1	0.7999	0.9942	1.0006	0.9995	0.9207	0.01	0.19	0.18	Snell. 'zx'= 58
5A	-779	33	1115	1	0.7999	0.9890	1.0017	0.9990	0.9082	0.01	0.25	0.23	Snell. 'zx'= 58
5B	-779	33	269	1	0.7999	0.9890	0.9972	0.9989	0.9698	0.01	0.05	0.09	Snell. 'zx'= 58
5C	-779	-34	1115	1	0.7999	0.9890	1.0017	0.9990	0.9082	0.01	0.25	0.23	Snell. 'zx'= 58
5D	-779	-34	269	1	0.7999	0.9890	0.9972	0.9989	0.9698	0.01	0.05	0.09	Snell. 'zx'= 58
5E	203	33	1115	1	0.7999	0.0000	0.0000	0.0000	0.9082	--	0.21	--	Snell. 'zx'= 58
5F	203	33	269	1	0.7999	0.0000	0.0000	0.0000	0.9698	--	0.05	--	Snell. 'zx'= 58
5G	203	-34	1115	1	0.7999	0.0000	0.0000	0.0000	0.9082	--	0.21	--	Snell. 'zx'= 58
5H	203	-34	269	1	0.7999	0.0000	0.0000	0.0000	0.9698	--	0.05	--	Snell. 'zx'= 58
5I	-572	86	1065	1	0.7999	0.9919	1.0009	0.9993	0.9159	0.01	0.28	0.26	Snell. 'zx'= 58
5J	-572	86	243	1	0.7999	0.9919	1.0000	0.9993	0.9398	0.01	0.12	0.12	Snell. 'zx'= 58
5K	-572	-87	1065	1	0.7999	0.9919	1.0009	0.9993	0.9159	0.01	0.28	0.26	Snell. 'zx'= 58
5L	-572	-87	243	1	0.7999	0.9919	1.0000	0.9993	0.9398	0.01	0.13	0.12	Snell. 'zx'= 58
5M	-7	86	1065	1	0.7999	0.9999	1.0000	1.0000	0.9159	0.00	0.27	0.25	Snell. 'zx'= 58
5N	-7	86	243	1	0.7999	0.9999	1.0000	1.0000	0.9398	0.00	0.12	0.11	Snell. 'zx'= 58
5O	-7	-87	1065	1	0.7999	0.9999	1.0000	1.0000	0.9159	0.00	0.27	0.25	Snell. 'zx'= 58
5P	-7	-87	243	1	0.7999	0.9999	1.0000	1.0000	0.9398	0.00	0.12	0.11	Snell. 'zx'= 58
5Q	-677	46	1288	1	0.7999	0.9905	1.0010	0.9991	0.9177	0.01	0.29	0.27	Snell. 'zx'= 58
5R	-677	46	-63	1	0.7999	0.9905	0.9989	0.9991	0.9626	0.01	0.01	0.06	Snell. 'zx'= 58
5S	-677	-46	1288	1	0.7999	0.9905	1.0010	0.9991	0.9177	0.01	0.29	0.27	Snell. 'zx'= 58
5T	-677	-46	-63	1	0.7999	0.9905	0.9989	0.9991	0.9626	0.01	0.01	0.06	Snell. 'zx'= 58
5U	101	46	1288	1	0.7999	0.0000	0.0000	0.0000	0.9177	--	0.24	--	Snell. 'zx'= 58
5V	101	46	-63	1	0.7999	0.0000	0.0000	0.0000	0.9626	--	0.01	--	Snell. 'zx'= 58
5W	101	-46	1288	1	0.7999	0.0000	0.0000	0.0000	0.9177	--	0.24	--	Snell. 'zx'= 58
5X	101	-46	-63	1	0.7999	0.0000	0.0000	0.0000	0.9626	--	0.01	--	Snell. 'zx'= 58

ASTA NUM. 16 NI 25 NF 23 Lungh. 128.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-266	-160	4	0	2	567	1	0.01	0.00	0.10	
2	0	-231	-120	3	0	2	579	1	0.01	0.00	0.10	
3	0	-235	-149	3	0	2	389	1	0.01	0.00	0.07	
4	0	-177	-81	0	0	1	408	1	0.00	0.00	0.07	
5A	0	-562	-393	37	0	31	498	1	0.02	0.01	0.08	
5B	0	-562	294	37	0	31	64	1	0.01	0.01	0.03	
5C	0	-562	-393	-33	0	-29	498	1	0.02	0.01	0.08	
5D	0	-562	294	-33	0	-29	64	1	0.01	0.01	0.02	
5E	0	343	-393	37	0	31	498	1	0.02	0.00	0.08	
5F	0	343	294	37	0	31	64	1	0.01	0.00	0.03	
5G	0	343	-393	-33	0	-29	498	1	0.02	0.00	0.08	
5H	0	343	294	-33	0	-29	64	1	0.01	0.00	0.02	
5I	0	-429	-238	94	0	81	489	1	0.01	0.01	0.08	
5J	0	-429	139	94	0	81	74	1	0.01	0.01	0.07	
5K	0	-429	-238	-91	0	-79	489	1	0.01	0.01	0.08	
5L	0	-429	139	-91	0	-79	74	1	0.01	0.01	0.07	
5M	0	210	-238	94	0	81	489	1	0.01	0.00	0.08	
5N	0	210	139	94	0	81	74	1	0.01	0.00	0.07	
5O	0	210	-238	-91	0	-79	489	1	0.01	0.00	0.08	
5P	0	210	139	-91	0	-79	74	1	0.01	0.00	0.07	
5Q	0	-419	-263	47	0	41	634	1	0.01	0.01	0.11	
5R	0	-419	165	47	0	41	-71	1	0.01	0.01	0.03	
5S	0	-419	-263	-43	0	-39	634	1	0.01	0.01	0.11	
5T	0	-419	165	-43	0	-39	-71	1	0.01	0.01	0.03	
5U	0	200	-263	47	0	41	634	1	0.01	0.00	0.11	
5V	0	200	165	47	0	41	-71	1	0.01	0.00	0.03	
5W	0	200	-263	-43	0	-39	634	1	0.01	0.00	0.11	
5X	0	200	165	-43	0	-39	-71	1	0.01	0.00	0.03	
1	64	-268	-179	4	0	-0	458	1	0.01	0.00	0.08	
2	64	-233	-138	3	0	0	496	1	0.01	0.00	0.08	
3	64	-237	-167	3	0	-0	287	1	0.01	0.00	0.05	
4	64	-179	-100	0	0	1	349	1	0.00	0.00	0.06	
5A	64	-564	-412	37	0	7	635	1	0.02	0.01	0.11	
5B	64	-564	276	37	0	7	-148	1	0.01	0.01	0.03	
5C	64	-564	-412	-33	0	-8	635	1	0.02	0.01	0.11	
5D	64	-564	276	-33	0	-8	-148	1	0.01	0.01	0.03	
5E	64	341	-412	37	0	7	635	1	0.02	0.00	0.11	
5F	64	341	276	37	0	7	-148	1	0.01	0.00	0.03	
5G	64	341	-412	-33	0	-8	635	1	0.02	0.00	0.11	
5H	64	341	276	-33	0	-8	-148	1	0.01	0.00	0.03	
5I	64	-431	-256	94	0	20	500	1	0.01	0.01	0.08	
5J	64	-431	121	94	0	20	-13	1	0.01	0.01	0.02	
5K	64	-431	-256	-91	0	-21	500	1	0.01	0.01	0.08	
5L	64	-431	121	-91	0	-21	-13	1	0.01	0.01	0.02	
5M	64	208	-256	94	0	20	500	1	0.01	0.00	0.08	
5N	64	208	121	94	0	20	-13	1	0.01	0.00	0.02	
5O	64	208	-256	-91	0	-21	500	1	0.01	0.00	0.08	
5P	64	208	121	-91	0	-21	-13	1	0.01	0.00	0.02	
5Q	64	-420	-282	47	0	11	603	1	0.01	0.01	0.10	
5R	64	-420	146	47	0	11	-116	1	0.01	0.01	0.02	
5S	64	-420	-282	-43	0	-11	603	1	0.01	0.01	0.10	
5T	64	-420	146	-43	0	-11	-116	1	0.01	0.01	0.02	
5U	64	198	-282	47	0	11	603	1	0.01	0.00	0.10	
5V	64	198	146	47	0	11	-116	1	0.01	0.00	0.02	
5W	64	198	-282	-43	0	-11	603	1	0.01	0.00	0.10	
5X	64	198	146	-43	0	-11	-116	1	0.01	0.00	0.02	
1	129	-270	-197	4	0	-3	337	1	0.01	0.00	0.06	
2	129	-235	-157	3	0	-1	401	1	0.01	0.00	0.07	
3	129	-239	-186	3	0	-2	173	1	0.01	0.00	0.03	
4	129	-180	-119	0	0	1	279	1	0.01	0.00	0.05	
5A	129	-565	-430	37	0	-17	760	1	0.02	0.01	0.13	
5B	129	-565	257	37	0	-17	-372	1	0.01	0.01	0.06	
5C	129	-565	-430	-33	0	14	760	1	0.02	0.01	0.13	
5D	129	-565	257	-33	0	14	-372	1	0.01	0.01	0.06	
5E	129	340	-430	37	0	-17	760	1	0.02	0.00	0.13	
5F	129	340	257	37	0	-17	-372	1	0.01	0.00	0.06	
5G	129	340	-430	-33	0	14	760	1	0.02	0.00	0.13	
5H	129	340	257	-33	0	14	-372	1	0.01	0.00	0.06	
5I	129	-433	-275	94	0	-41	500	1	0.01	0.01	0.08	
5J	129	-433	102	94	0	-41	-112	1	0.00	0.01	0.03	
5K	129	-433	-275	-91	0	38	500	1	0.01	0.01	0.08	
5L	129	-433	102	-91	0	38	-112	1	0.00	0.01	0.03	
5M	129	207	-275	94	0	-41	500	1	0.01	0.00	0.08	
5N	129	207	102	94	0	-41	-112	1	0.00	0.00	0.03	
5O	129	207	-275	-91	0	38	500	1	0.01	0.00	0.08	
5P	129	207	102	-91	0	38	-112	1	0.00	0.00	0.03	
5Q	129	-422	-301	47	0	-20	561	1	0.01	0.01	0.10	
5R	129	-422	127	47	0	-20	-174	1	0.01	0.01	0.03	
5S	129	-422	-301	-43	0	17	561	1	0.01	0.01	0.10	

5T	129	-422	127	-43	0	17	-174	1	0.01	0.01	0.03
5U	129	196	-301	47	0	-20	561	1	0.01	0.00	0.10
5V	129	196	127	47	0	-20	-174	1	0.01	0.00	0.03
5W	129	196	-301	-43	0	17	561	1	0.01	0.00	0.10
5X	129	196	127	-43	0	17	-174	1	0.01	0.00	0.03

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-270	-3	567	1	0.7999	0.9962	1.0003	0.9997	0.9243	0.00	0.11	0.10	Snell. 'zx'= 58
2	-235	2	579	1	0.7999	0.9967	1.0003	0.9997	0.9196	0.00	0.11	0.10	Snell. 'zx'= 58
3	-239	-2	389	1	0.7999	0.9966	1.0001	0.9997	0.9311	0.00	0.08	0.07	Snell. 'zx'= 58
4	-180	1	408	1	0.7999	1.0015	1.0002	1.0000	0.9201	0.00	0.08	0.07	Snell. 'zx'= 58
5A	-565	31	760	1	0.7999	0.9929	1.0007	0.9994	0.9214	0.01	0.17	0.16	Snell. 'zx'= 58
5B	-565	31	-372	1	0.7999	0.9929	0.9993	0.9994	0.9577	0.01	0.07	0.10	Snell. 'zx'= 58
5C	-565	-29	760	1	0.7999	0.9934	1.0007	0.9994	0.9214	0.01	0.17	0.16	Snell. 'zx'= 58
5D	-565	-29	-372	1	0.7999	0.9934	0.9993	0.9994	0.9577	0.01	0.07	0.10	Snell. 'zx'= 58
5E	343	31	760	1	0.7999	0.0000	0.0000	0.0000	0.9214	--	0.14	--	Snell. 'zx'= 58
5F	343	31	-372	1	0.7999	0.0000	0.0000	0.0000	0.9577	--	0.06	--	Snell. 'zx'= 58
5G	343	-29	760	1	0.7999	0.0000	0.0000	0.0000	0.9214	--	0.14	--	Snell. 'zx'= 58
5H	343	-29	-372	1	0.7999	0.0000	0.0000	0.0000	0.9577	--	0.06	--	Snell. 'zx'= 58
5I	-433	81	500	1	0.7999	0.9948	1.0010	0.9995	0.9058	0.01	0.17	0.16	Snell. 'zx'= 58
5J	-433	81	-112	1	0.7999	0.9948	0.9988	0.9995	0.9699	0.01	0.02	0.09	Snell. 'zx'= 58
5K	-433	-79	500	1	0.7999	0.9949	1.0010	0.9996	0.9058	0.01	0.17	0.16	Snell. 'zx'= 58
5L	-433	-79	-112	1	0.7999	0.9949	0.9988	0.9995	0.9699	0.01	0.02	0.09	Snell. 'zx'= 58
5M	210	81	500	1	0.7999	0.0000	0.0000	0.0000	0.9058	--	0.09	--	Snell. 'zx'= 58
5N	210	81	-112	1	0.7999	0.0000	0.0000	0.0000	0.9699	--	0.02	--	Snell. 'zx'= 58
5O	210	-79	500	1	0.7999	0.0000	0.0000	0.0000	0.9058	--	0.09	--	Snell. 'zx'= 58
5P	210	-79	-112	1	0.7999	0.0000	0.0000	0.0000	0.9699	--	0.02	--	Snell. 'zx'= 58
5Q	-422	41	634	1	0.7999	0.9950	1.0008	0.9996	0.9105	0.01	0.16	0.15	Snell. 'zx'= 58
5R	-422	41	-174	1	0.7999	0.9950	1.0002	0.9996	0.9329	0.01	0.07	0.07	Snell. 'zx'= 58
5S	-422	-39	634	1	0.7999	0.9953	1.0008	0.9996	0.9105	0.01	0.16	0.15	Snell. 'zx'= 58
5T	-422	-39	-174	1	0.7999	0.9953	1.0002	0.9996	0.9329	0.01	0.07	0.07	Snell. 'zx'= 58
5U	200	41	634	1	0.7999	0.0000	0.0000	0.0000	0.9105	--	0.12	--	Snell. 'zx'= 58
5V	200	41	-174	1	0.7999	0.0000	0.0000	0.0000	0.9329	--	0.03	--	Snell. 'zx'= 58
5W	200	-39	634	1	0.7999	0.0000	0.0000	0.0000	0.9105	--	0.12	--	Snell. 'zx'= 58
5X	200	-39	-174	1	0.7999	0.0000	0.0000	0.0000	0.9329	--	0.03	--	Snell. 'zx'= 58

ASTA NUM. 17 NI 26 NF 24 Lungh. 128.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-622	371	-1	0	-1	1010	1	0.02	0.01	0.17	
2	0	-566	414	-3	0	-3	967	1	0.02	0.01	0.16	
3	0	-466	218	-0	0	-0	727	1	0.01	0.01	0.12	
4	0	-372	289	-4	0	-4	655	1	0.01	0.00	0.11	
5A	0	-447	-241	41	0	20	875	1	0.01	0.01	0.15	
5B	0	-447	628	41	0	20	-17	1	0.03	0.01	0.02	
5C	0	-447	-241	-41	0	-21	875	1	0.01	0.01	0.15	
5D	0	-447	628	-41	0	-21	-17	1	0.03	0.01	0.02	
5E	0	-66	-241	41	0	20	875	1	0.01	0.00	0.15	
5F	0	-66	628	41	0	20	-17	1	0.03	0.00	0.02	
5G	0	-66	-241	-41	0	-21	875	1	0.01	0.00	0.15	
5H	0	-66	628	-41	0	-21	-17	1	0.03	0.00	0.02	
5I	0	-446	-30	107	0	52	752	1	0.00	0.01	0.13	
5J	0	-446	417	107	0	52	106	1	0.02	0.01	0.04	
5K	0	-446	-30	-108	0	-53	752	1	0.00	0.01	0.13	
5L	0	-446	417	-108	0	-53	106	1	0.02	0.01	0.04	
5M	0	-67	-30	107	0	52	752	1	0.00	0.00	0.13	
5N	0	-67	417	107	0	52	106	1	0.02	0.00	0.04	
5O	0	-67	-30	-108	0	-53	752	1	0.00	0.00	0.13	
5P	0	-67	417	-108	0	-53	106	1	0.02	0.00	0.04	
5Q	0	-543	-97	53	0	26	880	1	0.00	0.01	0.15	
5R	0	-543	485	53	0	26	-23	1	0.02	0.01	0.02	
5S	0	-543	-97	-54	0	-27	880	1	0.00	0.01	0.15	
5T	0	-543	485	-54	0	-27	-23	1	0.02	0.01	0.02	
5U	0	30	-97	53	0	26	880	1	0.00	0.00	0.15	
5V	0	30	485	53	0	26	-23	1	0.02	0.00	0.02	
5W	0	30	-97	-54	0	-27	880	1	0.00	0.00	0.15	
5X	0	30	485	-54	0	-27	-23	1	0.02	0.00	0.02	
1	64	-624	353	-1	0	-0	1243	1	0.02	0.01	0.21	
2	64	-567	395	-3	0	-1	1227	1	0.02	0.01	0.21	
3	64	-467	200	-0	0	-0	861	1	0.01	0.01	0.15	
4	64	-373	270	-4	0	-1	835	1	0.01	0.00	0.14	
5A	64	-449	-260	41	0	-6	577	1	0.01	0.01	0.10	

5B	64	-449	610	41	0	-6	518	1	0.03	0.01	0.09
5C	64	-449	-260	-41	0	6	577	1	0.01	0.01	0.10
5D	64	-449	610	-41	0	6	518	1	0.03	0.01	0.09
5E	64	-67	-260	41	0	-6	577	1	0.01	0.00	0.10
5F	64	-67	610	41	0	-6	518	1	0.03	0.00	0.09
5G	64	-67	-260	-41	0	6	577	1	0.01	0.00	0.10
5H	64	-67	610	-41	0	6	518	1	0.03	0.00	0.09
5I	64	-448	-49	107	0	-17	914	1	0.00	0.01	0.16
5J	64	-448	399	107	0	-17	181	1	0.02	0.01	0.03
5K	64	-448	-49	-108	0	17	914	1	0.00	0.01	0.16
5L	64	-448	399	-108	0	17	181	1	0.02	0.01	0.03
5M	64	-69	-49	107	0	-17	914	1	0.00	0.00	0.16
5N	64	-69	399	107	0	-17	181	1	0.02	0.00	0.03
5O	64	-69	-49	-108	0	17	914	1	0.00	0.00	0.16
5P	64	-69	399	-108	0	17	181	1	0.02	0.00	0.03
5Q	64	-544	-116	53	0	-8	1091	1	0.01	0.01	0.19
5R	64	-544	466	53	0	-8	5	1	0.02	0.01	0.01
5S	64	-544	-116	-54	0	8	1091	1	0.01	0.01	0.19
5T	64	-544	466	-54	0	8	5	1	0.02	0.01	0.01
5U	64	28	-116	53	0	-8	1091	1	0.01	0.00	0.19
5V	64	28	466	53	0	-8	5	1	0.02	0.00	0.01
5W	64	28	-116	-54	0	8	1091	1	0.01	0.00	0.19
5X	64	28	466	-54	0	8	5	1	0.02	0.00	0.01
1	129	-625	334	-1	0	0	1464	1	0.02	0.01	0.25
2	129	-569	376	-3	0	1	1476	1	0.02	0.01	0.25
3	129	-469	181	-0	0	0	984	1	0.01	0.01	0.17
4	129	-375	252	-4	0	1	1003	1	0.01	0.00	0.17
5A	129	-451	-278	41	0	-33	267	1	0.01	0.01	0.05
5B	129	-451	591	41	0	-33	1041	1	0.03	0.01	0.18
5C	129	-451	-278	-41	0	33	267	1	0.01	0.01	0.05
5D	129	-451	591	-41	0	33	1041	1	0.03	0.01	0.18
5E	129	-69	-278	41	0	-33	267	1	0.01	0.00	0.05
5F	129	-69	591	41	0	-33	1041	1	0.03	0.00	0.18
5G	129	-69	-278	-41	0	33	267	1	0.01	0.00	0.05
5H	129	-69	591	-41	0	33	1041	1	0.03	0.00	0.18
5I	129	-450	-67	107	0	-86	1065	1	0.00	0.01	0.18
5J	129	-450	380	107	0	-86	243	1	0.02	0.01	0.07
5K	129	-450	-67	-108	0	86	1065	1	0.00	0.01	0.18
5L	129	-450	380	-108	0	86	243	1	0.02	0.01	0.07
5M	129	-70	-67	107	0	-86	1065	1	0.00	0.00	0.18
5N	129	-70	380	107	0	-86	243	1	0.02	0.00	0.07
5O	129	-70	-67	-108	0	86	1065	1	0.00	0.00	0.18
5P	129	-70	380	-108	0	86	243	1	0.02	0.00	0.07
5Q	129	-546	-135	53	0	-42	1289	1	0.01	0.01	0.22
5R	129	-546	447	53	0	-42	20	1	0.02	0.01	0.04
5S	129	-546	-135	-54	0	42	1289	1	0.01	0.01	0.22
5T	129	-546	447	-54	0	42	20	1	0.02	0.01	0.04
5U	129	26	-135	53	0	-42	1289	1	0.01	0.00	0.22
5V	129	26	447	53	0	-42	20	1	0.02	0.00	0.04
5W	129	26	-135	-54	0	42	1289	1	0.01	0.00	0.22
5X	129	26	447	-54	0	42	20	1	0.02	0.00	0.04

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-625	-1	1464	1	0.7999	0.9948	1.0009	0.9995	0.9198	0.01	0.28	0.26	Snell. 'zx'= 58
2	-569	-3	1476	1	0.7999	0.9954	1.0007	0.9996	0.9215	0.01	0.28	0.26	Snell. 'zx'= 58
3	-469	-0	984	1	0.7999	0.9960	1.0007	0.9996	0.9172	0.01	0.19	0.18	Snell. 'zx'= 58
4	-375	-4	1003	1	0.7999	0.9970	1.0005	0.9997	0.9216	0.01	0.19	0.18	Snell. 'zx'= 58
5A	-451	-33	875	1	0.7999	0.9938	1.0001	0.9995	0.9375	0.01	0.19	0.18	Snell. 'zx'= 58
5B	-451	-33	1041	1	0.7999	0.9938	0.9996	0.9995	0.9513	0.01	0.22	0.21	Snell. 'zx'= 58
5C	-451	33	875	1	0.7999	0.9938	1.0001	0.9995	0.9375	0.01	0.19	0.18	Snell. 'zx'= 58
5D	-451	33	1041	1	0.7999	0.9938	0.9996	0.9995	0.9513	0.01	0.22	0.21	Snell. 'zx'= 58
5E	-69	-33	875	1	0.7999	0.9991	1.0000	0.9999	0.9375	0.00	0.19	0.18	Snell. 'zx'= 58
5F	-69	-33	1041	1	0.7999	0.9991	0.9999	0.9999	0.9513	0.00	0.21	0.21	Snell. 'zx'= 58
5G	-69	33	875	1	0.7999	0.9990	1.0000	0.9999	0.9375	0.00	0.19	0.18	Snell. 'zx'= 58
5H	-69	33	1041	1	0.7999	0.9990	0.9999	0.9999	0.9513	0.00	0.21	0.21	Snell. 'zx'= 58
5I	-450	-86	1065	1	0.7999	0.9939	1.0006	0.9995	0.9190	0.01	0.28	0.26	Snell. 'zx'= 58
5J	-450	-86	243	1	0.7999	0.9939	1.0003	0.9995	0.9317	0.01	0.12	0.12	Snell. 'zx'= 58
5K	-450	86	1065	1	0.7999	0.9939	1.0006	0.9995	0.9190	0.01	0.28	0.26	Snell. 'zx'= 58
5L	-450	86	243	1	0.7999	0.9939	1.0003	0.9995	0.9317	0.01	0.12	0.12	Snell. 'zx'= 58
5M	-70	-86	1065	1	0.7999	0.9990	1.0001	0.9999	0.9190	0.00	0.27	0.25	Snell. 'zx'= 58
5N	-70	-86	243	1	0.7999	0.9990	1.0000	0.9999	0.9317	0.00	0.12	0.11	Snell. 'zx'= 58
5O	-70	86	1065	1	0.7999	0.9990	1.0001	0.9999	0.9190	0.00	0.27	0.25	Snell. 'zx'= 58
5P	-70	86	243	1	0.7999	0.9990	1.0000	0.9999	0.9317	0.00	0.12	0.11	Snell. 'zx'= 58
5Q	-546	-42	1289	1	0.7999	0.9925	1.0007	0.9994	0.9201	0.01	0.28	0.26	Snell. 'zx'= 58
5R	-546	-42	-23	1	0.7999	0.9925	0.9984	0.9993	0.9699	0.01	0.00	0.05	Snell. 'zx'= 58
5S	-546	42	1289	1	0.7999	0.9924	1.0007	0.9994	0.9201	0.01	0.28	0.26	Snell. 'zx'= 58
5T	-546	42	-23	1	0.7999	0.9924	0.9984	0.9993	0.9699	0.01	0.00	0.05	Snell. 'zx'= 58
5U	30	-42	1289	1	0.7999	0.0000	0.0000	0.0000	0.9201	--	0.24	--	Snell. 'zx'= 58
5V	30	-42	-23	1	0.7999	0.0000	0.0000	0.0000	0.9699	--	0.00	--	Snell. 'zx'= 58
5W	30	42	1289	1	0.7999	0.0000	0.0000	0.0000	0.9201	--	0.24	--	Snell. 'zx'= 58

5X 30 42 -23 1 0.7999 0.0000 0.0000 0.0000 0.9699 -- 0.00 -- Snell. 'zx'= 58

ASTA NUM. 18 NI 27 NF 25 Lungh. 128.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-239	136	4	0	3	416	1	0.01	0.00	0.07	
2	0	-204	177	3	0	1	375	1	0.01	0.00	0.06	
3	0	-216	60	3	0	2	336	1	0.00	0.00	0.06	
4	0	-157	127	1	0	-1	268	1	0.01	0.00	0.05	
5A	0	-402	-284	45	0	24	583	1	0.01	0.01	0.10	
5B	0	-402	474	45	0	24	-217	1	0.02	0.01	0.04	
5C	0	-402	-284	-41	0	-22	583	1	0.01	0.01	0.10	
5D	0	-402	474	-41	0	-22	-217	1	0.02	0.01	0.04	
5E	0	210	-284	45	0	24	583	1	0.01	0.00	0.10	
5F	0	210	474	45	0	24	-217	1	0.02	0.00	0.04	
5G	0	210	-284	-41	0	-22	583	1	0.01	0.00	0.10	
5H	0	210	474	-41	0	-22	-217	1	0.02	0.00	0.04	
5I	0	-418	-107	108	0	58	427	1	0.00	0.01	0.07	
5J	0	-418	297	108	0	58	-61	1	0.01	0.01	0.05	
5K	0	-418	-107	-105	0	-55	427	1	0.00	0.01	0.07	
5L	0	-418	297	-105	0	-55	-61	1	0.01	0.01	0.05	
5M	0	226	-107	108	0	58	427	1	0.00	0.00	0.07	
5N	0	226	297	108	0	58	-61	1	0.01	0.00	0.05	
5O	0	226	-107	-105	0	-55	427	1	0.00	0.00	0.07	
5P	0	226	297	-105	0	-55	-61	1	0.01	0.00	0.05	
5Q	0	-385	-136	52	0	27	490	1	0.01	0.01	0.08	
5R	0	-385	326	52	0	27	-124	1	0.02	0.01	0.02	
5S	0	-385	-136	-49	0	-25	490	1	0.01	0.01	0.08	
5T	0	-385	326	-49	0	-25	-124	1	0.02	0.01	0.02	
5U	0	192	-136	52	0	27	490	1	0.01	0.00	0.08	
5V	0	192	326	52	0	27	-124	1	0.02	0.00	0.02	
5W	0	192	-136	-49	0	-25	490	1	0.01	0.00	0.08	
5X	0	192	326	-49	0	-25	-124	1	0.02	0.00	0.02	
1	64	-240	118	4	0	0	498	1	0.01	0.00	0.08	
2	64	-205	158	3	0	-1	483	1	0.01	0.00	0.08	
3	64	-217	41	3	0	0	369	1	0.00	0.00	0.06	
4	64	-159	108	1	0	-1	344	1	0.01	0.00	0.06	
5A	64	-404	-303	45	0	-5	330	1	0.01	0.01	0.06	
5B	64	-404	456	45	0	-5	146	1	0.02	0.01	0.02	
5C	64	-404	-303	-41	0	5	330	1	0.01	0.01	0.06	
5D	64	-404	456	-41	0	5	146	1	0.02	0.01	0.02	
5E	64	208	-303	45	0	-5	330	1	0.01	0.00	0.06	
5F	64	208	456	45	0	-5	146	1	0.02	0.00	0.02	
5G	64	208	-303	-41	0	5	330	1	0.01	0.00	0.06	
5H	64	208	456	-41	0	5	146	1	0.02	0.00	0.02	
5I	64	-420	-126	108	0	-12	256	1	0.01	0.01	0.04	
5J	64	-420	278	108	0	-12	220	1	0.01	0.01	0.04	
5K	64	-420	-126	-105	0	12	256	1	0.01	0.01	0.04	
5L	64	-420	278	-105	0	12	220	1	0.01	0.01	0.04	
5M	64	224	-126	108	0	-12	256	1	0.01	0.00	0.04	
5N	64	224	278	108	0	-12	220	1	0.01	0.00	0.04	
5O	64	224	-126	-105	0	12	256	1	0.01	0.00	0.04	
5P	64	224	278	-105	0	12	220	1	0.01	0.00	0.04	
5Q	64	-387	-155	52	0	-6	568	1	0.01	0.01	0.10	
5R	64	-387	308	52	0	-6	-92	1	0.01	0.01	0.02	
5S	64	-387	-155	-49	0	6	568	1	0.01	0.01	0.10	
5T	64	-387	308	-49	0	6	-92	1	0.01	0.01	0.02	
5U	64	191	-155	52	0	-6	568	1	0.01	0.00	0.10	
5V	64	191	308	52	0	-6	-92	1	0.01	0.00	0.02	
5W	64	191	-155	-49	0	6	568	1	0.01	0.00	0.10	
5X	64	191	308	-49	0	6	-92	1	0.01	0.00	0.02	
1	129	-242	99	4	0	-2	568	1	0.00	0.00	0.10	
2	129	-207	139	3	0	-3	579	1	0.01	0.00	0.10	
3	129	-219	22	3	0	-2	389	1	0.00	0.00	0.07	
4	129	-161	90	1	0	-2	408	1	0.00	0.00	0.07	
5A	129	-406	-322	45	0	-34	65	1	0.01	0.01	0.03	
5B	129	-406	437	45	0	-34	498	1	0.02	0.01	0.08	
5C	129	-406	-322	-41	0	32	65	1	0.01	0.01	0.03	
5D	129	-406	437	-41	0	32	498	1	0.02	0.01	0.08	
5E	129	206	-322	45	0	-34	65	1	0.01	0.00	0.03	
5F	129	206	437	45	0	-34	498	1	0.02	0.00	0.08	
5G	129	206	-322	-41	0	32	65	1	0.01	0.00	0.03	
5H	129	206	437	-41	0	32	498	1	0.02	0.00	0.08	
5I	129	-422	-144	108	0	-82	74	1	0.01	0.01	0.07	
5J	129	-422	260	108	0	-82	488	1	0.01	0.01	0.08	
5K	129	-422	-144	-105	0	80	74	1	0.01	0.01	0.07	
5L	129	-422	260	-105	0	80	488	1	0.01	0.01	0.08	
5M	129	223	-144	108	0	-82	74	1	0.01	0.00	0.07	
5N	129	223	260	108	0	-82	488	1	0.01	0.00	0.08	
5O	129	223	-144	-105	0	80	74	1	0.01	0.00	0.07	
5P	129	223	260	-105	0	80	488	1	0.01	0.00	0.08	

5Q	129	-388	-174	52	0	-40	634	1	0.01	0.01	0.11
5R	129	-388	289	52	0	-40	-71	1	0.01	0.01	0.03
5S	129	-388	-174	-49	0	38	634	1	0.01	0.01	0.11
5T	129	-388	289	-49	0	38	-71	1	0.01	0.01	0.03
5U	129	189	-174	52	0	-40	634	1	0.01	0.00	0.11
5V	129	189	289	52	0	-40	-71	1	0.01	0.00	0.03
5W	129	189	-174	-49	0	38	634	1	0.01	0.00	0.11
5X	129	189	289	-49	0	38	-71	1	0.01	0.00	0.03

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-242	3	567	1	0.7999	0.9966	1.0004	0.9996	0.9175	0.00	0.11	0.10	Snell. 'zx'= 58
2	-207	-3	578	1	0.7999	0.9978	1.0003	0.9998	0.9218	0.00	0.11	0.10	Snell. 'zx'= 58
3	-219	2	389	1	0.7999	0.9969	1.0004	0.9997	0.9115	0.00	0.08	0.07	Snell. 'zx'= 58
4	-161	-2	408	1	0.7999	1.0001	1.0002	1.0000	0.9214	0.00	0.08	0.07	Snell. 'zx'= 58
5A	-406	-34	583	1	0.7999	0.9943	0.9998	0.9995	0.9462	0.01	0.14	0.13	Snell. 'zx'= 58
5B	-406	-34	498	1	0.7999	0.9943	0.9991	0.9995	0.9661	0.01	0.09	0.12	Snell. 'zx'= 58
5C	-406	32	583	1	0.7999	0.9943	0.9998	0.9995	0.9462	0.01	0.14	0.13	Snell. 'zx'= 58
5D	-406	32	498	1	0.7999	0.9943	0.9991	0.9995	0.9661	0.01	0.09	0.12	Snell. 'zx'= 58
5E	210	-34	583	1	0.7999	0.0000	0.0000	0.0000	0.9462	--	0.10	--	Snell. 'zx'= 58
5F	210	-34	498	1	0.7999	0.0000	0.0000	0.0000	0.9661	--	0.09	--	Snell. 'zx'= 58
5G	210	32	583	1	0.7999	0.0000	0.0000	0.0000	0.9462	--	0.10	--	Snell. 'zx'= 58
5H	210	32	498	1	0.7999	0.0000	0.0000	0.0000	0.9661	--	0.09	--	Snell. 'zx'= 58
5I	-422	-82	427	1	0.7999	0.9941	0.9999	0.9995	0.9435	0.01	0.15	0.15	Snell. 'zx'= 58
5J	-422	-82	488	1	0.7999	0.9941	0.9995	0.9995	0.9559	0.01	0.09	0.16	Snell. 'zx'= 58
5K	-422	80	427	1	0.7999	0.9941	0.9999	0.9995	0.9435	0.01	0.15	0.15	Snell. 'zx'= 58
5L	-422	80	488	1	0.7999	0.9941	0.9995	0.9995	0.9559	0.01	0.09	0.16	Snell. 'zx'= 58
5M	226	-82	427	1	0.7999	0.0000	0.0000	0.0000	0.9435	--	0.07	--	Snell. 'zx'= 58
5N	226	-82	488	1	0.7999	0.0000	0.0000	0.0000	0.9559	--	0.08	--	Snell. 'zx'= 58
5O	226	80	427	1	0.7999	0.0000	0.0000	0.0000	0.9435	--	0.07	--	Snell. 'zx'= 58
5P	226	80	488	1	0.7999	0.0000	0.0000	0.0000	0.9559	--	0.08	--	Snell. 'zx'= 58
5Q	-388	-40	634	1	0.7999	0.9945	1.0006	0.9995	0.9157	0.01	0.16	0.15	Snell. 'zx'= 58
5R	-388	-40	-124	1	0.7999	0.9945	1.0004	0.9995	0.9251	0.01	0.06	0.06	Snell. 'zx'= 58
5S	-388	38	634	1	0.7999	0.9945	1.0006	0.9995	0.9157	0.01	0.16	0.15	Snell. 'zx'= 58
5T	-388	38	-124	1	0.7999	0.9945	1.0004	0.9995	0.9251	0.01	0.06	0.06	Snell. 'zx'= 58
5U	192	-40	634	1	0.7999	0.0000	0.0000	0.0000	0.9157	--	0.12	--	Snell. 'zx'= 58
5V	192	-40	-124	1	0.7999	0.0000	0.0000	0.0000	0.9251	--	0.02	--	Snell. 'zx'= 58
5W	192	38	634	1	0.7999	0.0000	0.0000	0.0000	0.9157	--	0.12	--	Snell. 'zx'= 58
5X	192	38	-124	1	0.7999	0.0000	0.0000	0.0000	0.9251	--	0.02	--	Snell. 'zx'= 58

ASTA NUM. 19 NI 28 NF 26 Lungh. 128.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-555	1160	1	0	1	-439	1	0.05	0.01	0.07	
2	0	-498	1203	9	0	8	-537	1	0.06	0.01	0.09	
3	0	-420	753	1	0	1	-206	1	0.03	0.01	0.03	
4	0	-327	825	14	0	13	-369	1	0.04	0.00	0.06	
5A	0	-529	-11	11	0	10	643	1	0.00	0.01	0.11	
5B	0	-529	1097	11	0	10	-1119	1	0.05	0.01	0.19	
5C	0	-529	-11	-10	0	-9	643	1	0.00	0.01	0.11	
5D	0	-529	1097	-10	0	-9	-1119	1	0.05	0.01	0.19	
5E	0	76	-11	11	0	10	643	1	0.00	0.00	0.11	
5F	0	76	1097	11	0	10	-1119	1	0.05	0.00	0.19	
5G	0	76	-11	-10	0	-9	643	1	0.00	0.00	0.11	
5H	0	76	1097	-10	0	-9	-1119	1	0.05	0.00	0.19	
5I	0	-451	145	19	0	19	137	1	0.01	0.01	0.02	
5J	0	-451	941	19	0	19	-613	1	0.04	0.01	0.10	
5K	0	-451	145	-18	0	-18	137	1	0.01	0.01	0.02	
5L	0	-451	941	-18	0	-18	-613	1	0.04	0.01	0.10	
5M	0	-2	145	19	0	19	137	1	0.01	0.00	0.02	
5N	0	-2	941	19	0	19	-613	1	0.04	0.00	0.10	
5O	0	-2	145	-18	0	-18	137	1	0.01	0.00	0.02	
5P	0	-2	941	-18	0	-18	-613	1	0.04	0.00	0.10	
5Q	0	-549	-26	21	0	17	223	1	0.00	0.01	0.04	
5R	0	-549	1112	21	0	17	-698	1	0.05	0.01	0.12	
5S	0	-549	-26	-20	0	-16	223	1	0.00	0.01	0.04	
5T	0	-549	1112	-20	0	-16	-698	1	0.05	0.01	0.12	
5U	0	96	-26	21	0	17	223	1	0.00	0.00	0.04	
5V	0	96	1112	21	0	17	-698	1	0.05	0.00	0.12	
5W	0	96	-26	-20	0	-16	223	1	0.00	0.00	0.04	
5X	0	96	1112	-20	0	-16	-698	1	0.05	0.00	0.12	
1	64	-556	1142	1	0	0	302	1	0.05	0.01	0.05	
2	64	-500	1184	9	0	2	232	1	0.05	0.01	0.04	

3	64	-422	735	1	0	0	273	1	0.03	0.01	0.05
4	64	-328	806	14	0	3	156	1	0.04	0.00	0.03
5A	64	-531	-30	11	0	1	770	1	0.00	0.01	0.13
5B	64	-531	1079	11	0	1	-559	1	0.05	0.01	0.09
5C	64	-531	-30	-10	0	-0	770	1	0.00	0.01	0.13
5D	64	-531	1079	-10	0	-0	-559	1	0.05	0.01	0.09
5E	64	75	-30	11	0	1	770	1	0.00	0.00	0.13
5F	64	75	1079	11	0	1	-559	1	0.05	0.00	0.09
5G	64	75	-30	-10	0	-0	770	1	0.00	0.00	0.13
5H	64	75	1079	-10	0	-0	-559	1	0.05	0.00	0.09
5I	64	-452	127	19	0	1	129	1	0.01	0.01	0.02
5J	64	-452	922	19	0	1	83	1	0.04	0.01	0.01
5K	64	-452	127	-18	0	-1	129	1	0.01	0.01	0.02
5L	64	-452	922	-18	0	-1	83	1	0.04	0.01	0.01
5M	64	-4	127	19	0	1	129	1	0.01	0.00	0.02
5N	64	-4	922	19	0	1	83	1	0.04	0.00	0.01
5O	64	-4	127	-18	0	-1	129	1	0.01	0.00	0.02
5P	64	-4	922	-18	0	-1	83	1	0.04	0.00	0.01
5Q	64	-550	-45	21	0	2	105	1	0.00	0.01	0.02
5R	64	-550	1094	21	0	2	106	1	0.05	0.01	0.02
5S	64	-550	-45	-20	0	-1	105	1	0.00	0.01	0.02
5T	64	-550	1094	-20	0	-1	106	1	0.05	0.01	0.02
5U	64	94	-45	21	0	2	105	1	0.00	0.00	0.02
5V	64	94	1094	21	0	2	106	1	0.05	0.00	0.02
5W	64	94	-45	-20	0	-1	105	1	0.00	0.00	0.02
5X	64	94	1094	-20	0	-1	106	1	0.05	0.00	0.02
1	129	-558	1123	1	0	-0	1031	1	0.05	0.01	0.18
2	129	-502	1165	9	0	-4	988	1	0.05	0.01	0.17
3	129	-423	716	1	0	-0	740	1	0.03	0.01	0.13
4	129	-330	787	14	0	-6	669	1	0.04	0.00	0.11
5A	129	-532	-48	11	0	-8	885	1	0.00	0.01	0.15
5B	129	-532	1060	11	0	-8	-10	1	0.05	0.01	0.01
5C	129	-532	-48	-10	0	8	885	1	0.00	0.01	0.15
5D	129	-532	1060	-10	0	8	-10	1	0.05	0.01	0.01
5E	129	73	-48	11	0	-8	885	1	0.00	0.00	0.15
5F	129	73	1060	11	0	-8	-10	1	0.05	0.00	0.01
5G	129	73	-48	-10	0	8	885	1	0.00	0.00	0.15
5H	129	73	1060	-10	0	8	-10	1	0.05	0.00	0.01
5I	129	-454	108	19	0	-16	109	1	0.01	0.01	0.02
5J	129	-454	903	19	0	-16	766	1	0.04	0.01	0.13
5K	129	-454	108	-18	0	16	109	1	0.01	0.01	0.02
5L	129	-454	903	-18	0	16	766	1	0.04	0.01	0.13
5M	129	-6	108	19	0	-16	109	1	0.01	0.00	0.02
5N	129	-6	903	19	0	-16	766	1	0.04	0.00	0.13
5O	129	-6	108	-18	0	16	109	1	0.01	0.00	0.02
5P	129	-6	903	-18	0	16	766	1	0.04	0.00	0.13
5Q	129	-552	-63	21	0	-14	-24	1	0.00	0.01	0.01
5R	129	-552	1075	21	0	-14	899	1	0.05	0.01	0.15
5S	129	-552	-63	-20	0	14	-24	1	0.00	0.01	0.01
5T	129	-552	1075	-20	0	14	899	1	0.05	0.01	0.15
5U	129	92	-63	21	0	-14	-24	1	0.00	0.00	0.01
5V	129	92	1075	21	0	-14	899	1	0.05	0.00	0.15
5W	129	92	-63	-20	0	14	-24	1	0.00	0.00	0.01
5X	129	92	1075	-20	0	14	899	1	0.05	0.00	0.15

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-558	1	1031	1	0.7999	0.9967	0.9988	0.9995	0.9658	0.01	0.18	0.18	Snell. 'zx'= 58
2	-502	8	988	1	0.7999	0.9944	0.9987	0.9995	0.9684	0.01	0.17	0.18	Snell. 'zx'= 58
3	-423	1	740	1	0.7999	0.9973	0.9993	0.9997	0.9613	0.01	0.13	0.13	Snell. 'zx'= 58
4	-330	13	669	1	0.7999	0.9962	0.9992	0.9996	0.9685	0.01	0.12	0.13	Snell. 'zx'= 58
5A	-532	10	885	1	0.7999	0.9925	1.0008	0.9992	0.9179	0.01	0.18	0.17	Snell. 'zx'= 58
5B	-532	10	-1119	1	0.7999	0.9925	0.9996	0.9992	0.9502	0.01	0.22	0.21	Snell. 'zx'= 58
5C	-532	-9	885	1	0.7999	0.9925	1.0008	0.9992	0.9179	0.01	0.18	0.17	Snell. 'zx'= 58
5D	-532	-9	-1119	1	0.7999	0.9925	0.9996	0.9992	0.9502	0.01	0.22	0.21	Snell. 'zx'= 58
5E	76	10	885	1	0.7999	0.0000	0.0000	0.0000	0.9179	--	0.16	--	Snell. 'zx'= 58
5F	76	10	-1119	1	0.7999	0.0000	0.0000	0.0000	0.9502	--	0.20	--	Snell. 'zx'= 58
5G	76	-9	885	1	0.7999	0.0000	0.0000	0.0000	0.9179	--	0.16	--	Snell. 'zx'= 58
5H	76	-9	-1119	1	0.7999	0.0000	0.0000	0.0000	0.9502	--	0.20	--	Snell. 'zx'= 58
5I	-454	19	137	1	0.7999	0.9936	1.0008	0.9993	0.9148	0.01	0.05	0.05	Snell. 'zx'= 58
5J	-454	19	766	1	0.7999	0.9936	0.9985	0.9993	0.9706	0.01	0.13	0.15	Snell. 'zx'= 58
5K	-454	-18	137	1	0.7999	0.9936	1.0008	0.9993	0.9148	0.01	0.05	0.05	Snell. 'zx'= 58
5L	-454	-18	766	1	0.7999	0.9936	0.9985	0.9993	0.9706	0.01	0.13	0.15	Snell. 'zx'= 58
5M	-6	19	137	1	0.7999	0.9999	1.0000	1.0000	0.9148	0.00	0.04	0.04	Snell. 'zx'= 58
5N	-6	19	766	1	0.7999	0.9999	1.0000	1.0000	0.9706	0.00	0.13	0.15	Snell. 'zx'= 58
5O	-6	-18	137	1	0.7999	0.9999	1.0000	1.0000	0.9148	0.00	0.04	0.04	Snell. 'zx'= 58
5P	-6	-18	766	1	0.7999	0.9999	1.0000	1.0000	0.9706	0.00	0.13	0.14	Snell. 'zx'= 58
5Q	-552	17	223	1	0.7999	0.9922	0.9994	0.9992	0.9552	0.01	0.04	0.06	Snell. 'zx'= 58
5R	-552	17	899	1	0.7999	0.9922	0.9982	0.9992	0.9708	0.01	0.16	0.18	Snell. 'zx'= 58
5S	-552	-16	223	1	0.7999	0.9922	0.9994	0.9992	0.9552	0.01	0.04	0.06	Snell. 'zx'= 58
5T	-552	-16	899	1	0.7999	0.9922	0.9982	0.9992	0.9708	0.01	0.16	0.18	Snell. 'zx'= 58

5U	96	17	223	1	0.7999	0.0000	0.0000	0.0000	0.9552	--	0.04	--	Snell. 'zx'= 58
5V	96	17	899	1	0.7999	0.0000	0.0000	0.0000	0.9708	--	0.16	--	Snell. 'zx'= 58
5W	96	-16	223	1	0.7999	0.0000	0.0000	0.0000	0.9552	--	0.04	--	Snell. 'zx'= 58
5X	96	-16	899	1	0.7999	0.0000	0.0000	0.0000	0.9708	--	0.16	--	Snell. 'zx'= 58

ASTA NUM. 20 NI 29 NF 27 Lungh. 128.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-256	433	3	0	2	-128	1	0.02	0.00	0.02	
2	0	-214	473	10	0	7	-221	1	0.02	0.00	0.04	
3	0	-215	270	2	0	1	5	1	0.01	0.00	0.00	
4	0	-144	337	13	0	11	-150	1	0.02	0.00	0.03	
5A	0	-425	-184	30	0	24	727	1	0.01	0.01	0.12	
5B	0	-425	669	30	0	24	-946	1	0.03	0.01	0.16	
5C	0	-425	-184	-28	0	-23	727	1	0.01	0.01	0.12	
5D	0	-425	669	-28	0	-23	-946	1	0.03	0.01	0.16	
5E	0	214	-184	30	0	24	727	1	0.01	0.00	0.12	
5F	0	214	669	30	0	24	-946	1	0.03	0.00	0.16	
5G	0	214	-184	-28	0	-23	727	1	0.01	0.00	0.12	
5H	0	214	669	-28	0	-23	-946	1	0.03	0.00	0.16	
5I	0	-273	-12	80	0	65	307	1	0.00	0.00	0.06	
5J	0	-273	497	80	0	65	-527	1	0.02	0.00	0.09	
5K	0	-273	-12	-78	0	-64	307	1	0.00	0.00	0.06	
5L	0	-273	497	-78	0	-64	-527	1	0.02	0.00	0.09	
5M	0	62	-12	80	0	65	307	1	0.00	0.00	0.06	
5N	0	62	497	80	0	65	-527	1	0.02	0.00	0.09	
5O	0	62	-12	-78	0	-64	307	1	0.00	0.00	0.06	
5P	0	62	497	-78	0	-64	-527	1	0.02	0.00	0.09	
5Q	0	-348	-116	37	0	31	322	1	0.01	0.00	0.05	
5R	0	-348	601	37	0	31	-542	1	0.03	0.00	0.09	
5S	0	-348	-116	-35	0	-30	322	1	0.01	0.00	0.05	
5T	0	-348	601	-35	0	-30	-542	1	0.03	0.00	0.09	
5U	0	137	-116	37	0	31	322	1	0.01	0.00	0.05	
5V	0	137	601	37	0	31	-542	1	0.03	0.00	0.09	
5W	0	137	-116	-35	0	-30	322	1	0.01	0.00	0.05	
5X	0	137	601	-35	0	-30	-542	1	0.03	0.00	0.09	
1	64	-258	414	3	0	-0	145	1	0.02	0.00	0.02	
2	64	-215	454	10	0	1	78	1	0.02	0.00	0.01	
3	64	-217	251	2	0	-0	173	1	0.01	0.00	0.03	
4	64	-146	318	13	0	2	61	1	0.01	0.00	0.01	
5A	64	-426	-203	30	0	4	659	1	0.01	0.01	0.11	
5B	64	-426	650	30	0	4	-579	1	0.03	0.01	0.10	
5C	64	-426	-203	-28	0	-4	659	1	0.01	0.01	0.11	
5D	64	-426	650	-28	0	-4	-579	1	0.03	0.01	0.10	
5E	64	212	-203	30	0	4	659	1	0.01	0.00	0.11	
5F	64	212	650	30	0	4	-579	1	0.03	0.00	0.10	
5G	64	212	-203	-28	0	-4	659	1	0.01	0.00	0.11	
5H	64	212	650	-28	0	-4	-579	1	0.03	0.00	0.10	
5I	64	-275	-31	80	0	12	371	1	0.00	0.00	0.06	
5J	64	-275	478	80	0	12	-291	1	0.02	0.00	0.05	
5K	64	-275	-31	-78	0	-12	371	1	0.00	0.00	0.06	
5L	64	-275	478	-78	0	-12	-291	1	0.02	0.00	0.05	
5M	64	60	-31	80	0	12	371	1	0.00	0.00	0.06	
5N	64	60	478	80	0	12	-291	1	0.02	0.00	0.05	
5O	64	60	-31	-78	0	-12	371	1	0.00	0.00	0.06	
5P	64	60	478	-78	0	-12	-291	1	0.02	0.00	0.05	
5Q	64	-349	-135	37	0	5	102	1	0.01	0.00	0.02	
5R	64	-349	582	37	0	5	-22	1	0.03	0.00	0.00	
5S	64	-349	-135	-35	0	-5	102	1	0.01	0.00	0.02	
5T	64	-349	582	-35	0	-5	-22	1	0.03	0.00	0.00	
5U	64	135	-135	37	0	5	102	1	0.01	0.00	0.02	
5V	64	135	582	37	0	5	-22	1	0.03	0.00	0.00	
5W	64	135	-135	-35	0	-5	102	1	0.01	0.00	0.02	
5X	64	135	582	-35	0	-5	-22	1	0.03	0.00	0.00	
1	129	-260	395	3	0	-2	405	1	0.02	0.00	0.07	
2	129	-217	435	10	0	-5	364	1	0.02	0.00	0.06	
3	129	-219	233	2	0	-2	329	1	0.01	0.00	0.06	
4	129	-147	300	13	0	-6	260	1	0.01	0.00	0.04	
5A	129	-428	-222	30	0	-16	579	1	0.01	0.01	0.10	
5B	129	-428	632	30	0	-16	-223	1	0.03	0.01	0.04	
5C	129	-428	-222	-28	0	14	579	1	0.01	0.01	0.10	
5D	129	-428	632	-28	0	14	-223	1	0.03	0.01	0.04	
5E	129	210	-222	30	0	-16	579	1	0.01	0.00	0.10	
5F	129	210	632	30	0	-16	-223	1	0.03	0.00	0.04	
5G	129	210	-222	-28	0	14	579	1	0.01	0.00	0.10	
5H	129	210	632	-28	0	14	-223	1	0.03	0.00	0.04	
5I	129	-277	-49	80	0	-41	423	1	0.00	0.00	0.07	
5J	129	-277	459	80	0	-41	-67	1	0.02	0.00	0.03	
5K	129	-277	-49	-78	0	39	423	1	0.00	0.00	0.07	
5L	129	-277	459	-78	0	39	-67	1	0.02	0.00	0.03	
5M	129	59	-49	80	0	-41	423	1	0.00	0.00	0.07	

5N	129	59	459	80	0	-41	-67	1	0.02	0.00	0.03
5O	129	59	-49	-78	0	39	423	1	0.00	0.00	0.07
5P	129	59	459	-78	0	39	-67	1	0.02	0.00	0.03
5Q	129	-351	-153	37	0	-21	-130	1	0.01	0.00	0.02
5R	129	-351	563	37	0	-21	486	1	0.03	0.00	0.08
5S	129	-351	-153	-35	0	19	-130	1	0.01	0.00	0.02
5T	129	-351	563	-35	0	19	486	1	0.03	0.00	0.08
5U	129	133	-153	37	0	-21	-130	1	0.01	0.00	0.02
5V	129	133	563	37	0	-21	486	1	0.03	0.00	0.08
5W	129	133	-153	-35	0	19	-130	1	0.01	0.00	0.02
5X	129	133	563	-35	0	19	486	1	0.03	0.00	0.08

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-260	-2	405	1	0.7999	0.9963	0.9995	0.9996	0.9625	0.00	0.07	0.08	Snell. 'zx'= 58
2	-217	7	364	1	0.7999	0.9969	0.9994	0.9997	0.9693	0.00	0.06	0.07	Snell. 'zx'= 58
3	-219	-2	329	1	0.7999	0.9969	0.9998	0.9997	0.9500	0.00	0.06	0.06	Snell. 'zx'= 58
4	-147	11	260	1	0.7999	0.9981	0.9996	0.9998	0.9689	0.00	0.05	0.06	Snell. 'zx'= 58
5A	-428	24	727	1	0.7999	0.9940	1.0007	0.9995	0.9146	0.01	0.16	0.15	Snell. 'zx'= 58
5B	-428	24	-946	1	0.7999	0.9940	1.0000	0.9995	0.9405	0.01	0.20	0.19	Snell. 'zx'= 58
5C	-428	-23	727	1	0.7999	0.9941	1.0007	0.9995	0.9146	0.01	0.16	0.15	Snell. 'zx'= 58
5D	-428	-23	-946	1	0.7999	0.9941	1.0000	0.9995	0.9405	0.01	0.20	0.19	Snell. 'zx'= 58
5E	214	24	727	1	0.7999	0.0000	0.0000	0.0000	0.9146	--	0.13	--	Snell. 'zx'= 58
5F	214	24	-946	1	0.7999	0.0000	0.0000	0.0000	0.9405	--	0.17	--	Snell. 'zx'= 58
5G	214	-23	727	1	0.7999	0.0000	0.0000	0.0000	0.9146	--	0.13	--	Snell. 'zx'= 58
5H	214	-23	-946	1	0.7999	0.0000	0.0000	0.0000	0.9405	--	0.17	--	Snell. 'zx'= 58
5I	-277	65	423	1	0.7999	0.9962	1.0004	0.9997	0.9179	0.00	0.14	0.13	Snell. 'zx'= 58
5J	-277	65	-527	1	0.7999	0.9962	0.9999	0.9997	0.9455	0.00	0.15	0.15	Snell. 'zx'= 58
5K	-277	-64	423	1	0.7999	0.9962	1.0004	0.9997	0.9179	0.00	0.14	0.13	Snell. 'zx'= 58
5L	-277	-64	-527	1	0.7999	0.9962	0.9999	0.9997	0.9455	0.00	0.15	0.15	Snell. 'zx'= 58
5M	62	65	423	1	0.7999	0.0000	0.0000	0.0000	0.9179	--	0.08	--	Snell. 'zx'= 58
5N	62	65	-527	1	0.7999	0.0000	0.0000	0.0000	0.9455	--	0.09	--	Snell. 'zx'= 58
5O	62	-64	423	1	0.7999	0.0000	0.0000	0.0000	0.9179	--	0.08	--	Snell. 'zx'= 58
5P	62	-64	-527	1	0.7999	0.0000	0.0000	0.0000	0.9455	--	0.09	--	Snell. 'zx'= 58
5Q	-351	31	322	1	0.7999	0.9951	0.9993	0.9996	0.9652	0.01	0.06	0.09	Snell. 'zx'= 58
5R	-351	31	-542	1	0.7999	0.9951	0.9987	0.9995	0.9696	0.01	0.09	0.12	Snell. 'zx'= 58
5S	-351	-30	322	1	0.7999	0.9951	0.9993	0.9996	0.9652	0.01	0.06	0.09	Snell. 'zx'= 58
5T	-351	-30	-542	1	0.7999	0.9951	0.9987	0.9995	0.9696	0.01	0.09	0.12	Snell. 'zx'= 58
5U	137	31	322	1	0.7999	0.0000	0.0000	0.0000	0.9652	--	0.06	--	Snell. 'zx'= 58
5V	137	31	-542	1	0.7999	0.0000	0.0000	0.0000	0.9696	--	0.09	--	Snell. 'zx'= 58
5W	137	-30	322	1	0.7999	0.0000	0.0000	0.0000	0.9652	--	0.06	--	Snell. 'zx'= 58
5X	137	-30	-542	1	0.7999	0.0000	0.0000	0.0000	0.9696	--	0.09	--	Snell. 'zx'= 58

ASTA NUM. 21 NI 30 NF 28 Lungh. 78.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-487	1952	-7	0	-3	-1942	1	0.09	0.01	0.33	
2	0	-430	1995	-35	0	-19	-2074	1	0.09	0.01	0.35	
3	0	-375	1285	-5	0	-2	-1193	1	0.06	0.00	0.20	
4	0	-279	1358	-52	0	-28	-1412	1	0.06	0.00	0.24	
5A	0	-793	295	31	0	15	419	1	0.01	0.01	0.07	
5B	0	-793	1472	31	0	15	-2248	1	0.07	0.01	0.38	
5C	0	-793	295	-38	0	-18	419	1	0.01	0.01	0.07	
5D	0	-793	1472	-38	0	-18	-2248	1	0.07	0.01	0.38	
5E	0	398	295	31	0	15	419	1	0.01	0.01	0.07	
5F	0	398	1472	31	0	15	-2248	1	0.07	0.01	0.38	
5G	0	398	295	-38	0	-18	419	1	0.01	0.01	0.07	
5H	0	398	1472	-38	0	-18	-2248	1	0.07	0.01	0.38	
5I	0	-521	418	65	0	28	-190	1	0.02	0.01	0.03	
5J	0	-521	1349	65	0	28	-1639	1	0.06	0.01	0.28	
5K	0	-521	418	-72	0	-32	-190	1	0.02	0.01	0.03	
5L	0	-521	1349	-72	0	-32	-1639	1	0.06	0.01	0.28	
5M	0	126	418	65	0	28	-190	1	0.02	0.00	0.03	
5N	0	126	1349	65	0	28	-1639	1	0.06	0.00	0.28	
5O	0	126	418	-72	0	-32	-190	1	0.02	0.00	0.03	
5P	0	126	1349	-72	0	-32	-1639	1	0.06	0.00	0.28	
5Q	0	-623	241	58	0	29	28	1	0.01	0.01	0.02	
5R	0	-623	1527	58	0	29	-1857	1	0.07	0.01	0.32	
5S	0	-623	241	-65	0	-32	28	1	0.01	0.01	0.03	
5T	0	-623	1527	-65	0	-32	-1857	1	0.07	0.01	0.32	
5U	0	228	241	58	0	29	28	1	0.01	0.00	0.02	
5V	0	228	1527	58	0	29	-1857	1	0.07	0.00	0.32	
5W	0	228	241	-65	0	-32	28	1	0.01	0.00	0.03	
5X	0	228	1527	-65	0	-32	-1857	1	0.07	0.00	0.32	

1	39	-488	1941	-7	0	-1	-1176	1	0.09	0.01	0.20
2	39	-431	1984	-35	0	-5	-1290	1	0.09	0.01	0.22
3	39	-376	1274	-5	0	-1	-689	1	0.06	0.00	0.12
4	39	-280	1347	-52	0	-7	-880	1	0.06	0.00	0.15
5A	39	-794	283	31	0	2	535	1	0.01	0.01	0.09
5B	39	-794	1461	31	0	2	-1673	1	0.07	0.01	0.28
5C	39	-794	283	-38	0	-3	535	1	0.01	0.01	0.09
5D	39	-794	1461	-38	0	-3	-1673	1	0.07	0.01	0.28
5E	39	397	283	31	0	2	535	1	0.01	0.01	0.09
5F	39	397	1461	31	0	2	-1673	1	0.07	0.01	0.28
5G	39	397	283	-38	0	-3	535	1	0.01	0.01	0.09
5H	39	397	1461	-38	0	-3	-1673	1	0.07	0.01	0.28
5I	39	-522	407	65	0	2	-23	1	0.02	0.01	0.00
5J	39	-522	1337	65	0	2	-1114	1	0.06	0.01	0.19
5K	39	-522	407	-72	0	-3	-23	1	0.02	0.01	0.00
5L	39	-522	1337	-72	0	-3	-1114	1	0.06	0.01	0.19
5M	39	125	407	65	0	2	-23	1	0.02	0.00	0.00
5N	39	125	1337	65	0	2	-1114	1	0.06	0.00	0.19
5O	39	125	407	-72	0	-3	-23	1	0.02	0.00	0.00
5P	39	125	1337	-72	0	-3	-1114	1	0.06	0.00	0.19
5Q	39	-624	229	58	0	5	126	1	0.01	0.01	0.02
5R	39	-624	1515	58	0	5	-1264	1	0.07	0.01	0.21
5S	39	-624	229	-65	0	-6	126	1	0.01	0.01	0.02
5T	39	-624	1515	-65	0	-6	-1264	1	0.07	0.01	0.21
5U	39	227	229	58	0	5	126	1	0.01	0.00	0.02
5V	39	227	1515	58	0	5	-1264	1	0.07	0.00	0.21
5W	39	227	229	-65	0	-6	126	1	0.01	0.00	0.02
5X	39	227	1515	-65	0	-6	-1264	1	0.07	0.00	0.21
1	79	-489	1929	-7	0	2	-414	1	0.09	0.01	0.07
2	79	-432	1973	-35	0	9	-511	1	0.09	0.01	0.09
3	79	-377	1262	-5	0	1	-190	1	0.06	0.00	0.03
4	79	-281	1335	-52	0	14	-352	1	0.06	0.00	0.06
5A	79	-795	272	31	0	-11	647	1	0.01	0.01	0.11
5B	79	-795	1450	31	0	-11	-1102	1	0.07	0.01	0.19
5C	79	-795	272	-38	0	13	647	1	0.01	0.01	0.11
5D	79	-795	1450	-38	0	13	-1102	1	0.07	0.01	0.19
5E	79	396	272	31	0	-11	647	1	0.01	0.01	0.11
5F	79	396	1450	31	0	-11	-1102	1	0.07	0.01	0.19
5G	79	396	272	-38	0	13	647	1	0.01	0.01	0.11
5H	79	396	1450	-38	0	13	-1102	1	0.07	0.01	0.19
5I	79	-523	396	65	0	-24	139	1	0.02	0.01	0.02
5J	79	-523	1326	65	0	-24	-594	1	0.06	0.01	0.10
5K	79	-523	396	-72	0	26	139	1	0.02	0.01	0.02
5L	79	-523	1326	-72	0	26	-594	1	0.06	0.01	0.10
5M	79	124	396	65	0	-24	139	1	0.02	0.00	0.02
5N	79	124	1326	65	0	-24	-594	1	0.06	0.00	0.10
5O	79	124	396	-72	0	26	139	1	0.02	0.00	0.02
5P	79	124	1326	-72	0	26	-594	1	0.06	0.00	0.10
5Q	79	-625	218	58	0	-19	220	1	0.01	0.01	0.04
5R	79	-625	1504	58	0	-19	-675	1	0.07	0.01	0.11
5S	79	-625	218	-65	0	21	220	1	0.01	0.01	0.04
5T	79	-625	1504	-65	0	21	-675	1	0.07	0.01	0.11
5U	79	226	218	58	0	-19	220	1	0.01	0.00	0.04
5V	79	226	1504	58	0	-19	-675	1	0.07	0.00	0.11
5W	79	226	218	-65	0	21	220	1	0.01	0.00	0.04
5X	79	226	1504	-65	0	21	-675	1	0.07	0.00	0.11

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-489	-3	-1942	1	0.9219	0.9953	0.9996	1.0000	0.9816	0.01	0.34	0.34	Snell. 'zx'= 35
2	-432	-19	-2074	1	0.9219	0.9960	0.9997	1.0000	0.9808	0.01	0.36	0.37	Snell. 'zx'= 35
3	-377	-2	-1193	1	0.9219	0.9964	0.9997	1.0000	0.9830	0.01	0.21	0.21	Snell. 'zx'= 35
4	-281	-28	-1412	1	0.9219	0.9974	0.9998	1.0000	0.9807	0.00	0.24	0.27	Snell. 'zx'= 35
5A	-795	15	647	1	0.9219	0.9910	1.0001	1.0000	0.9717	0.01	0.11	0.13	Snell. 'zx'= 35
5B	-795	15	-2248	1	0.9219	0.9910	0.9998	1.0000	0.9751	0.01	0.39	0.41	Snell. 'zx'= 35
5C	-795	-18	647	1	0.9219	0.9913	1.0001	1.0000	0.9717	0.01	0.11	0.14	Snell. 'zx'= 35
5D	-795	-18	-2248	1	0.9219	0.9913	0.9998	1.0000	0.9751	0.01	0.39	0.41	Snell. 'zx'= 35
5E	398	15	647	1	0.9219	0.0000	0.0000	0.0000	0.9717	--	0.11	--	Snell. 'zx'= 35
5F	398	15	-2248	1	0.9219	0.0000	0.0000	0.0000	0.9751	--	0.39	--	Snell. 'zx'= 35
5G	398	-18	647	1	0.9219	0.0000	0.0000	0.0000	0.9717	--	0.11	--	Snell. 'zx'= 35
5H	398	-18	-2248	1	0.9219	0.0000	0.0000	0.0000	0.9751	--	0.39	--	Snell. 'zx'= 35
5I	-523	28	-190	1	0.9219	0.9937	0.9987	1.0000	0.9979	0.01	0.03	0.06	Snell. 'zx'= 35
5J	-523	28	-1639	1	0.9219	0.9937	0.9998	1.0000	0.9783	0.01	0.28	0.31	Snell. 'zx'= 35
5K	-523	-32	-190	1	0.9219	0.9938	0.9987	1.0000	0.9979	0.01	0.03	0.07	Snell. 'zx'= 35
5L	-523	-32	-1639	1	0.9219	0.9938	0.9998	1.0000	0.9783	0.01	0.28	0.31	Snell. 'zx'= 35
5M	126	28	-190	1	0.9219	0.0000	0.0000	0.0000	0.9979	--	0.03	--	Snell. 'zx'= 35
5N	126	28	-1639	1	0.9219	0.0000	0.0000	0.0000	0.9783	--	0.28	--	Snell. 'zx'= 35
5O	126	-32	-190	1	0.9219	0.0000	0.0000	0.0000	0.9979	--	0.03	--	Snell. 'zx'= 35
5P	126	-32	-1639	1	0.9219	0.0000	0.0000	0.0000	0.9783	--	0.28	--	Snell. 'zx'= 35
5Q	-625	29	220	1	0.9219	0.9934	0.9994	1.0000	0.9837	0.01	0.04	0.07	Snell. 'zx'= 35

5R	-625	29	-1857	1	0.9219	0.9934	0.9997	1.0000	0.9782	0.01	0.32	0.35 Snell. 'zx'= 35
5S	-625	-32	220	1	0.9219	0.9935	0.9994	1.0000	0.9837	0.01	0.04	0.07 Snell. 'zx'= 35
5T	-625	-32	-1857	1	0.9219	0.9935	0.9997	1.0000	0.9782	0.01	0.32	0.35 Snell. 'zx'= 35
5U	228	29	220	1	0.9219	0.0000	0.0000	0.0000	0.9837	--	0.04	-- Snell. 'zx'= 35
5V	228	29	-1857	1	0.9219	0.0000	0.0000	0.0000	0.9782	--	0.32	-- Snell. 'zx'= 35
5W	228	-32	220	1	0.9219	0.0000	0.0000	0.0000	0.9837	--	0.04	-- Snell. 'zx'= 35
5X	228	-32	-1857	1	0.9219	0.0000	0.0000	0.0000	0.9782	--	0.32	-- Snell. 'zx'= 35

ASTA NUM. 22 NI 31 NF 29 Lungh. 78.8 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-231	699	6	0	2	-682	1	0.03	0.00	0.12	
2	0	-189	738	-18	0	-11	-806	1	0.03	0.00	0.14	
3	0	-198	454	4	0	1	-352	1	0.02	0.00	0.06	
4	0	-127	520	-37	0	-20	-559	1	0.02	0.00	0.09	
5A	0	-562	-70	131	0	68	771	1	0.00	0.01	0.13	
5B	0	-562	801	131	0	68	-1559	1	0.04	0.01	0.26	
5C	0	-562	-70	-124	0	-66	771	1	0.00	0.01	0.13	
5D	0	-562	801	-124	0	-66	-1559	1	0.04	0.01	0.26	
5E	0	374	-70	131	0	68	771	1	0.00	0.00	0.13	
5F	0	374	801	131	0	68	-1559	1	0.04	0.00	0.26	
5G	0	374	-70	-124	0	-66	771	1	0.00	0.00	0.13	
5H	0	374	801	-124	0	-66	-1559	1	0.04	0.00	0.26	
5I	0	-297	98	342	0	181	202	1	0.01	0.00	0.15	
5J	0	-297	633	342	0	181	-991	1	0.03	0.00	0.18	
5K	0	-297	98	-335	0	-178	202	1	0.01	0.00	0.15	
5L	0	-297	633	-335	0	-178	-991	1	0.03	0.00	0.18	
5M	0	110	98	342	0	181	202	1	0.01	0.00	0.15	
5N	0	110	633	342	0	181	-991	1	0.03	0.00	0.18	
5O	0	110	98	-335	0	-178	202	1	0.01	0.00	0.15	
5P	0	110	633	-335	0	-178	-991	1	0.03	0.00	0.18	
5Q	0	-357	-13	165	0	88	301	1	0.01	0.00	0.08	
5R	0	-357	744	165	0	88	-1090	1	0.03	0.00	0.19	
5S	0	-357	-13	-158	0	-85	301	1	0.01	0.00	0.07	
5T	0	-357	744	-158	0	-85	-1090	1	0.03	0.00	0.19	
5U	0	170	-13	165	0	88	301	1	0.01	0.00	0.08	
5V	0	170	744	165	0	88	-1090	1	0.03	0.00	0.19	
5W	0	170	-13	-158	0	-85	301	1	0.01	0.00	0.07	
5X	0	170	744	-158	0	-85	-1090	1	0.03	0.00	0.19	
1	39	-232	687	6	0	-1	-409	1	0.03	0.00	0.07	
2	39	-190	727	-18	0	-4	-517	1	0.03	0.00	0.09	
3	39	-199	443	4	0	-1	-175	1	0.02	0.00	0.03	
4	39	-128	509	-37	0	-6	-357	1	0.02	0.00	0.06	
5A	39	-563	-81	131	0	16	748	1	0.00	0.01	0.13	
5B	39	-563	789	131	0	16	-1253	1	0.04	0.01	0.21	
5C	39	-563	-81	-124	0	-17	748	1	0.00	0.01	0.13	
5D	39	-563	789	-124	0	-17	-1253	1	0.04	0.01	0.21	
5E	39	373	-81	131	0	16	748	1	0.00	0.00	0.13	
5F	39	373	789	131	0	16	-1253	1	0.04	0.00	0.21	
5G	39	373	-81	-124	0	-17	748	1	0.00	0.00	0.13	
5H	39	373	789	-124	0	-17	-1253	1	0.04	0.00	0.21	
5I	39	-298	87	342	0	46	255	1	0.01	0.00	0.04	
5J	39	-298	622	342	0	46	-760	1	0.03	0.00	0.13	
5K	39	-298	87	-335	0	-46	255	1	0.01	0.00	0.04	
5L	39	-298	622	-335	0	-46	-760	1	0.03	0.00	0.13	
5M	39	109	87	342	0	46	255	1	0.01	0.00	0.04	
5N	39	109	622	342	0	46	-760	1	0.03	0.00	0.13	
5O	39	109	87	-335	0	-46	255	1	0.01	0.00	0.04	
5P	39	109	622	-335	0	-46	-760	1	0.03	0.00	0.13	
5Q	39	-358	-24	165	0	22	310	1	0.01	0.00	0.05	
5R	39	-358	733	165	0	22	-815	1	0.03	0.00	0.14	
5S	39	-358	-24	-158	0	-23	310	1	0.01	0.00	0.05	
5T	39	-358	733	-158	0	-23	-815	1	0.03	0.00	0.14	
5U	39	169	-24	165	0	22	310	1	0.01	0.00	0.05	
5V	39	169	733	165	0	22	-815	1	0.03	0.00	0.14	
5W	39	169	-24	-158	0	-23	310	1	0.01	0.00	0.05	
5X	39	169	733	-158	0	-23	-815	1	0.03	0.00	0.14	
1	79	-233	676	6	0	-3	-140	1	0.03	0.00	0.02	
2	79	-191	716	-18	0	3	-233	1	0.03	0.00	0.04	
3	79	-200	431	4	0	-2	-3	1	0.02	0.00	0.00	
4	79	-130	497	-37	0	9	-158	1	0.02	0.00	0.03	
5A	79	-564	-92	131	0	-36	722	1	0.00	0.01	0.12	
5B	79	-564	778	131	0	-36	-952	1	0.04	0.01	0.16	
5C	79	-564	-92	-124	0	33	722	1	0.00	0.01	0.12	
5D	79	-564	778	-124	0	33	-952	1	0.04	0.01	0.16	
5E	79	372	-92	131	0	-36	722	1	0.00	0.00	0.12	
5F	79	372	778	131	0	-36	-952	1	0.04	0.00	0.16	
5G	79	372	-92	-124	0	33	722	1	0.00	0.00	0.12	
5H	79	372	778	-124	0	33	-952	1	0.04	0.00	0.16	
5I	79	-299	75	342	0	-89	303	1	0.01	0.00	0.08	
5J	79	-299	610	342	0	-89	-533	1	0.03	0.00	0.09	

5K	79	-299	75	-335	0	86	303	1	0.01	0.00	0.07
5L	79	-299	610	-335	0	86	-533	1	0.03	0.00	0.09
5M	79	108	75	342	0	-89	303	1	0.01	0.00	0.08
5N	79	108	610	342	0	-89	-533	1	0.03	0.00	0.09
5O	79	108	75	-335	0	86	303	1	0.01	0.00	0.07
5P	79	108	610	-335	0	86	-533	1	0.03	0.00	0.09
5Q	79	-360	-36	165	0	-43	314	1	0.01	0.00	0.05
5R	79	-360	721	165	0	-43	-544	1	0.03	0.00	0.09
5S	79	-360	-36	-158	0	40	314	1	0.01	0.00	0.05
5T	79	-360	721	-158	0	40	-544	1	0.03	0.00	0.09
5U	79	168	-36	165	0	-43	314	1	0.01	0.00	0.05
5V	79	168	721	165	0	-43	-544	1	0.03	0.00	0.09
5W	79	168	-36	-158	0	40	314	1	0.01	0.00	0.05
5X	79	168	721	-158	0	40	-544	1	0.03	0.00	0.09

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-233	-3	-681	1	0.9219	0.9979	0.9998	1.0000	0.9818	0.00	0.12	0.12	Snell. 'zx'= 35
2	-191	-11	-806	1	0.9219	0.9985	0.9999	1.0000	0.9799	0.00	0.14	0.15	Snell. 'zx'= 35
3	-200	-2	-351	1	0.9219	0.9983	0.9998	1.0000	0.9863	0.00	0.06	0.06	Snell. 'zx'= 35
4	-130	-20	-559	1	0.9219	0.9989	0.9999	1.0000	0.9800	0.00	0.10	0.11	Snell. 'zx'= 35
5A	-564	68	771	1	0.9219	0.9946	1.0004	1.0000	0.9651	0.01	0.14	0.20	Snell. 'zx'= 35
5B	-564	68	-1559	1	0.9219	0.9946	1.0000	1.0000	0.9725	0.01	0.27	0.33	Snell. 'zx'= 35
5C	-564	-66	771	1	0.9219	0.9948	1.0004	1.0000	0.9651	0.01	0.14	0.19	Snell. 'zx'= 35
5D	-564	-66	-1559	1	0.9219	0.9948	1.0000	1.0000	0.9725	0.01	0.27	0.33	Snell. 'zx'= 35
5E	374	68	771	1	0.9219	0.0000	0.0000	0.0000	0.9651	--	0.13	--	Snell. 'zx'= 35
5F	374	68	-1559	1	0.9219	0.0000	0.0000	0.0000	0.9725	--	0.27	--	Snell. 'zx'= 35
5G	374	-66	771	1	0.9219	0.0000	0.0000	0.0000	0.9651	--	0.13	--	Snell. 'zx'= 35
5H	374	-66	-1559	1	0.9219	0.0000	0.0000	0.0000	0.9725	--	0.27	--	Snell. 'zx'= 35
5I	-299	181	303	1	0.9219	0.9972	1.0000	1.0000	0.9712	0.00	0.05	0.21	Snell. 'zx'= 35
5J	-299	181	-991	1	0.9219	0.9972	1.0000	1.0000	0.9741	0.00	0.17	0.32	Snell. 'zx'= 35
5K	-299	-178	303	1	0.9219	0.9972	1.0000	1.0000	0.9712	0.00	0.05	0.21	Snell. 'zx'= 35
5L	-299	-178	-991	1	0.9219	0.9972	1.0000	1.0000	0.9741	0.00	0.17	0.32	Snell. 'zx'= 35
5M	110	181	303	1	0.9219	0.0000	0.0000	0.0000	0.9712	--	0.05	--	Snell. 'zx'= 35
5N	110	181	-991	1	0.9219	0.0000	0.0000	0.0000	0.9741	--	0.17	--	Snell. 'zx'= 35
5O	110	-178	303	1	0.9219	0.0000	0.0000	0.0000	0.9712	--	0.05	--	Snell. 'zx'= 35
5P	110	-178	-991	1	0.9219	0.0000	0.0000	0.0000	0.9741	--	0.17	--	Snell. 'zx'= 35
5Q	-360	88	314	1	0.9219	0.9967	1.0003	1.0000	0.9645	0.01	0.06	0.13	Snell. 'zx'= 35
5R	-360	88	-1090	1	0.9219	0.9967	0.9999	1.0000	0.9749	0.01	0.19	0.26	Snell. 'zx'= 35
5S	-360	-85	314	1	0.9219	0.9967	1.0003	1.0000	0.9645	0.01	0.06	0.13	Snell. 'zx'= 35
5T	-360	-85	-1090	1	0.9219	0.9967	0.9999	1.0000	0.9749	0.01	0.19	0.26	Snell. 'zx'= 35
5U	170	88	314	1	0.9219	0.0000	0.0000	0.0000	0.9645	--	0.05	--	Snell. 'zx'= 35
5V	170	88	-1090	1	0.9219	0.0000	0.0000	0.0000	0.9749	--	0.19	--	Snell. 'zx'= 35
5W	170	-85	314	1	0.9219	0.0000	0.0000	0.0000	0.9645	--	0.05	--	Snell. 'zx'= 35
5X	170	-85	-1090	1	0.9219	0.0000	0.0000	0.0000	0.9749	--	0.19	--	Snell. 'zx'= 35

ASTA NUM. 23 NI 32 NF 30 Lungh. 50.0 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-66	-782	7	0	0	-10	1	0.04	0.00	0.00	
2	0	-63	-784	46	0	4	-10	1	0.04	0.00	0.00	
3	0	-43	-517	5	0	0	-6	1	0.02	0.00	0.00	
4	0	-38	-519	69	0	7	-7	1	0.02	0.00	0.01	
5A	0	-306	-460	47	0	6	-1	1	0.02	0.00	0.01	
5B	0	-306	-187	47	0	6	-8	1	0.01	0.00	0.01	
5C	0	-306	-460	-39	0	-6	-1	1	0.02	0.00	0.00	
5D	0	-306	-187	-39	0	-6	-8	1	0.01	0.00	0.00	
5E	0	251	-460	47	0	6	-1	1	0.02	0.00	0.01	
5F	0	251	-187	47	0	6	-8	1	0.01	0.00	0.01	
5G	0	251	-460	-39	0	-6	-1	1	0.02	0.00	0.00	
5H	0	251	-187	-39	0	-6	-8	1	0.01	0.00	0.00	
5I	0	-134	-442	79	0	9	0	1	0.02	0.00	0.01	
5J	0	-134	-204	79	0	9	-9	1	0.01	0.00	0.01	
5K	0	-134	-442	-71	0	-9	0	1	0.02	0.00	0.01	
5L	0	-134	-204	-71	0	-9	-9	1	0.01	0.00	0.01	
5M	0	79	-442	79	0	9	0	1	0.02	0.00	0.01	
5N	0	79	-204	79	0	9	-9	1	0.01	0.00	0.01	
5O	0	79	-442	-71	0	-9	0	1	0.02	0.00	0.01	
5P	0	79	-204	-71	0	-9	-9	1	0.01	0.00	0.01	
5Q	0	-162	-572	88	0	13	4	1	0.03	0.00	0.01	
5R	0	-162	-74	88	0	13	-12	1	0.00	0.00	0.01	
5S	0	-162	-572	-80	0	-13	4	1	0.03	0.00	0.01	
5T	0	-162	-74	-80	0	-13	-12	1	0.00	0.00	0.01	
5U	0	107	-572	88	0	13	4	1	0.03	0.00	0.01	

5V	0	107	-74	88	0	13	-12	1	0.00	0.00	0.01
5W	0	107	-572	-80	0	-13	4	1	0.03	0.00	0.01
5X	0	107	-74	-80	0	-13	-12	1	0.00	0.00	0.01
1	25	-67	-790	7	0	-1	-206	1	0.04	0.00	0.04
2	25	-64	-791	46	0	-7	-207	1	0.04	0.00	0.04
3	25	-44	-524	5	0	-1	-136	1	0.02	0.00	0.02
4	25	-39	-527	69	0	-10	-138	1	0.02	0.00	0.02
5A	25	-306	-467	47	0	-6	-50	1	0.02	0.00	0.01
5B	25	-306	-194	47	0	-6	-122	1	0.01	0.00	0.02
5C	25	-306	-467	-39	0	4	-50	1	0.02	0.00	0.01
5D	25	-306	-194	-39	0	4	-122	1	0.01	0.00	0.02
5E	25	250	-467	47	0	-6	-50	1	0.02	0.00	0.01
5F	25	250	-194	47	0	-6	-122	1	0.01	0.00	0.02
5G	25	250	-467	-39	0	4	-50	1	0.02	0.00	0.01
5H	25	250	-194	-39	0	4	-122	1	0.01	0.00	0.02
5I	25	-135	-449	79	0	-11	-113	1	0.02	0.00	0.02
5J	25	-135	-212	79	0	-11	-59	1	0.01	0.00	0.01
5K	25	-135	-449	-71	0	10	-113	1	0.02	0.00	0.02
5L	25	-135	-212	-71	0	10	-59	1	0.01	0.00	0.01
5M	25	79	-449	79	0	-11	-113	1	0.02	0.00	0.02
5N	25	79	-212	79	0	-11	-59	1	0.01	0.00	0.01
5O	25	79	-449	-71	0	10	-113	1	0.02	0.00	0.02
5P	25	79	-212	-71	0	10	-59	1	0.01	0.00	0.01
5Q	25	-163	-580	88	0	-10	-144	1	0.03	0.00	0.02
5R	25	-163	-82	88	0	-10	-28	1	0.00	0.00	0.01
5S	25	-163	-580	-80	0	8	-144	1	0.03	0.00	0.02
5T	25	-163	-82	-80	0	8	-28	1	0.00	0.00	0.01
5U	25	107	-580	88	0	-10	-144	1	0.03	0.00	0.02
5V	25	107	-82	88	0	-10	-28	1	0.00	0.00	0.01
5W	25	107	-580	-80	0	8	-144	1	0.03	0.00	0.02
5X	25	107	-82	-80	0	8	-28	1	0.00	0.00	0.01
1	50	-67	-797	7	0	-3	-405	1	0.04	0.00	0.07
2	50	-64	-798	46	0	-19	-406	1	0.04	0.00	0.07
3	50	-45	-532	5	0	-2	-268	1	0.02	0.00	0.05
4	50	-40	-534	69	0	-28	-270	1	0.02	0.00	0.05
5A	50	-307	-474	47	0	-18	-101	1	0.02	0.00	0.02
5B	50	-307	-201	47	0	-18	-238	1	0.01	0.00	0.04
5C	50	-307	-474	-39	0	15	-101	1	0.02	0.00	0.02
5D	50	-307	-201	-39	0	15	-238	1	0.01	0.00	0.04
5E	50	250	-474	47	0	-18	-101	1	0.02	0.00	0.02
5F	50	250	-201	47	0	-18	-238	1	0.01	0.00	0.04
5G	50	250	-474	-39	0	15	-101	1	0.02	0.00	0.02
5H	50	250	-201	-39	0	15	-238	1	0.01	0.00	0.04
5I	50	-135	-457	79	0	-32	-229	1	0.02	0.00	0.04
5J	50	-135	-219	79	0	-32	-110	1	0.01	0.00	0.03
5K	50	-135	-457	-71	0	28	-229	1	0.02	0.00	0.04
5L	50	-135	-219	-71	0	28	-110	1	0.01	0.00	0.02
5M	50	78	-457	79	0	-32	-229	1	0.02	0.00	0.04
5N	50	78	-219	79	0	-32	-110	1	0.01	0.00	0.03
5O	50	78	-457	-71	0	28	-229	1	0.02	0.00	0.04
5P	50	78	-219	-71	0	28	-110	1	0.01	0.00	0.02
5Q	50	-164	-587	88	0	-32	-293	1	0.03	0.00	0.05
5R	50	-164	-89	88	0	-32	-46	1	0.00	0.00	0.03
5S	50	-164	-587	-80	0	29	-293	1	0.03	0.00	0.05
5T	50	-164	-89	-80	0	29	-46	1	0.00	0.00	0.02
5U	50	106	-587	88	0	-32	-293	1	0.03	0.00	0.05
5V	50	106	-89	88	0	-32	-46	1	0.00	0.00	0.03
5W	50	106	-587	-80	0	29	-293	1	0.03	0.00	0.05
5X	50	106	-89	-80	0	29	-46	1	0.00	0.00	0.02

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	--	----------											
	kg	kg*m											
1	-67	-3	-405	1	0.9784	0.9996	0.9999	1.0000	1.0000	0.00	0.07	0.07	Snell. 'zx'= 22
2	-64	-18	-406	1	0.9784	0.9995	0.9999	1.0000	1.0000	0.00	0.07	0.09	Snell. 'zx'= 22
3	-45	-2	-268	1	0.9784	0.9997	0.9999	1.0000	1.0000	0.00	0.05	0.05	Snell. 'zx'= 22
4	-40	-28	-270	1	0.9784	0.9997	0.9999	1.0000	1.0000	0.00	0.05	0.07	Snell. 'zx'= 22
5A	-307	-18	-101	1	0.9784	0.9977	0.9996	1.0000	1.0000	0.00	0.02	0.04	Snell. 'zx'= 22
5B	-307	-18	-238	1	0.9784	0.9977	0.9996	1.0000	1.0000	0.00	0.04	0.06	Snell. 'zx'= 22
5C	-307	15	-101	1	0.9784	0.9976	0.9996	1.0000	1.0000	0.00	0.02	0.03	Snell. 'zx'= 22
5D	-307	15	-238	1	0.9784	0.9976	0.9996	1.0000	1.0000	0.00	0.04	0.06	Snell. 'zx'= 22
5E	251	-18	-101	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5F	251	-18	-238	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.04	--	Snell. 'zx'= 22
5G	251	15	-101	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5H	251	15	-238	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.04	--	Snell. 'zx'= 22
5I	-135	-32	-229	1	0.9784	0.9990	0.9998	1.0000	1.0000	0.00	0.04	0.07	Snell. 'zx'= 22
5J	-135	-32	-110	1	0.9784	0.9990	0.9998	1.0000	1.0000	0.00	0.02	0.05	Snell. 'zx'= 22
5K	-135	28	-229	1	0.9784	0.9990	0.9998	1.0000	1.0000	0.00	0.04	0.06	Snell. 'zx'= 22
5L	-135	28	-110	1	0.9784	0.9990	0.9998	1.0000	1.0000	0.00	0.02	0.04	Snell. 'zx'= 22
5M	79	-32	-229	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.04	--	Snell. 'zx'= 22
5N	79	-32	-110	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'= 22

5O	79	28	-229	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.04	--	Snell. 'zx'=	22
5P	79	28	-110	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'=	22
5Q	-164	-32	-293	1	0.9784	0.9987	0.9998	1.0000	1.0000	0.00	0.05	0.08	Snell. 'zx'=	22
5R	-164	-32	-46	1	0.9784	0.9987	0.9998	1.0000	1.0000	0.00	0.01	0.04	Snell. 'zx'=	22
5S	-164	29	-293	1	0.9784	0.9987	0.9998	1.0000	1.0000	0.00	0.05	0.08	Snell. 'zx'=	22
5T	-164	29	-46	1	0.9784	0.9987	0.9998	1.0000	1.0000	0.00	0.01	0.03	Snell. 'zx'=	22
5U	107	-32	-293	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.05	--	Snell. 'zx'=	22
5V	107	-32	-46	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'=	22
5W	107	29	-293	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.05	--	Snell. 'zx'=	22
5X	107	29	-46	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'=	22

ASTA NUM. 24 NI 33 NF 31 Lungh. 50.0 cm SEZ. 2 Ps IPE 200

categoria: p.p. y qy tot.
qy medio: 22.28 22.28 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-23	-237	6	0	5	5	1	0.01	0.00	0.00	
2	0	-25	-236	38	0	9	5	1	0.01	0.00	0.01	
3	0	-15	-157	5	0	3	3	1	0.01	0.00	0.00	
4	0	-19	-155	59	0	10	4	1	0.01	0.00	0.01	
5A	0	-173	-167	151	0	15	4	1	0.01	0.00	0.01	
5B	0	-173	-28	151	0	15	0	1	0.01	0.00	0.01	
5C	0	-173	-167	-149	0	-11	4	1	0.01	0.00	0.01	
5D	0	-173	-28	-149	0	-11	0	1	0.01	0.00	0.01	
5E	0	154	-167	151	0	15	4	1	0.01	0.00	0.01	
5F	0	154	-28	151	0	15	0	1	0.01	0.00	0.01	
5G	0	154	-167	-149	0	-11	4	1	0.01	0.00	0.01	
5H	0	154	-28	-149	0	-11	0	1	0.01	0.00	0.01	
5I	0	-122	-154	410	0	28	6	1	0.01	0.00	0.02	
5J	0	-122	-41	410	0	28	-1	1	0.01	0.00	0.02	
5K	0	-122	-154	-408	0	-24	6	1	0.01	0.00	0.02	
5L	0	-122	-41	-408	0	-24	-1	1	0.01	0.00	0.02	
5M	0	103	-154	410	0	28	6	1	0.01	0.00	0.02	
5N	0	103	-41	410	0	28	-1	1	0.01	0.00	0.02	
5O	0	103	-154	-408	0	-24	6	1	0.01	0.00	0.02	
5P	0	103	-41	-408	0	-24	-1	1	0.01	0.00	0.02	
5Q	0	-121	-224	199	0	16	6	1	0.01	0.00	0.01	
5R	0	-121	28	199	0	16	-2	1	0.01	0.00	0.01	
5S	0	-121	-224	-197	0	-13	6	1	0.01	0.00	0.01	
5T	0	-121	28	-197	0	-13	-2	1	0.01	0.00	0.01	
5U	0	102	-224	199	0	16	6	1	0.01	0.00	0.01	
5V	0	102	28	199	0	16	-2	1	0.01	0.00	0.01	
5W	0	102	-224	-197	0	-13	6	1	0.01	0.00	0.01	
5X	0	102	28	-197	0	-13	-2	1	0.01	0.00	0.01	
1	25	-24	-244	6	0	4	-55	1	0.01	0.00	0.01	
2	25	-26	-243	38	0	-1	-55	1	0.01	0.00	0.01	
3	25	-16	-164	5	0	2	-37	1	0.01	0.00	0.01	
4	25	-19	-163	59	0	-5	-36	1	0.01	0.00	0.01	
5A	25	-174	-174	151	0	-26	-5	1	0.01	0.00	0.02	
5B	25	-174	-36	151	0	-26	-41	1	0.01	0.00	0.02	
5C	25	-174	-174	-149	0	29	-5	1	0.01	0.00	0.02	
5D	25	-174	-36	-149	0	29	-41	1	0.01	0.00	0.02	
5E	25	153	-174	151	0	-26	-5	1	0.01	0.00	0.02	
5F	25	153	-36	151	0	-26	-41	1	0.01	0.00	0.02	
5G	25	153	-174	-149	0	29	-5	1	0.01	0.00	0.02	
5H	25	153	-36	-149	0	29	-41	1	0.01	0.00	0.02	
5I	25	-123	-161	410	0	-75	-7	1	0.01	0.00	0.06	
5J	25	-123	-49	410	0	-75	-39	1	0.01	0.00	0.06	
5K	25	-123	-161	-408	0	78	-7	1	0.01	0.00	0.07	
5L	25	-123	-49	-408	0	78	-39	1	0.01	0.00	0.07	
5M	25	102	-161	410	0	-75	-7	1	0.01	0.00	0.06	
5N	25	102	-49	410	0	-75	-39	1	0.01	0.00	0.06	
5O	25	102	-161	-408	0	78	-7	1	0.01	0.00	0.07	
5P	25	102	-49	-408	0	78	-39	1	0.01	0.00	0.07	
5Q	25	-121	-231	199	0	-34	10	1	0.01	0.00	0.03	
5R	25	-121	21	199	0	-34	-57	1	0.01	0.00	0.03	
5S	25	-121	-231	-197	0	38	10	1	0.01	0.00	0.03	
5T	25	-121	21	-197	0	38	-57	1	0.01	0.00	0.03	
5U	25	101	-231	199	0	-34	10	1	0.01	0.00	0.03	
5V	25	101	21	199	0	-34	-57	1	0.01	0.00	0.03	
5W	25	101	-231	-197	0	38	10	1	0.01	0.00	0.03	
5X	25	101	21	-197	0	38	-57	1	0.01	0.00	0.03	
1	50	-24	-251	6	0	2	-117	1	0.01	0.00	0.02	
2	50	-26	-250	38	0	-11	-116	1	0.01	0.00	0.02	
3	50	-17	-171	5	0	1	-79	1	0.01	0.00	0.01	
4	50	-20	-170	59	0	-20	-78	1	0.01	0.00	0.02	
5A	50	-174	-181	151	0	-66	-16	1	0.01	0.00	0.06	
5B	50	-174	-43	151	0	-66	-85	1	0.01	0.00	0.06	
5C	50	-174	-181	-149	0	69	-16	1	0.01	0.00	0.06	
5D	50	-174	-43	-149	0	69	-85	1	0.01	0.00	0.06	
5E	50	153	-181	151	0	-66	-16	1	0.01	0.00	0.06	
5F	50	153	-43	151	0	-66	-85	1	0.01	0.00	0.06	
5G	50	153	-181	-149	0	69	-16	1	0.01	0.00	0.06	

5H	50	153	-43	-149	0	69	-85	1	0.01	0.00	0.06
5I	50	-123	-168	410	0	-178	-21	1	0.01	0.00	0.15
5J	50	-123	-56	410	0	-178	-79	1	0.01	0.00	0.15
5K	50	-123	-168	-408	0	181	-21	1	0.01	0.00	0.15
5L	50	-123	-56	-408	0	181	-79	1	0.01	0.00	0.15
5M	50	102	-168	410	0	-178	-21	1	0.01	0.00	0.15
5N	50	102	-56	410	0	-178	-79	1	0.01	0.00	0.15
5O	50	102	-168	-408	0	181	-21	1	0.01	0.00	0.15
5P	50	102	-56	-408	0	181	-79	1	0.01	0.00	0.15
5Q	50	-122	-238	199	0	-85	13	1	0.01	0.00	0.07
5R	50	-122	14	199	0	-85	-114	1	0.01	0.00	0.07
5S	50	-122	-238	-197	0	88	13	1	0.01	0.00	0.07
5T	50	-122	14	-197	0	88	-114	1	0.01	0.00	0.07
5U	50	100	-238	199	0	-85	13	1	0.01	0.00	0.07
5V	50	100	14	199	0	-85	-114	1	0.01	0.00	0.07
5W	50	100	-238	-197	0	88	13	1	0.01	0.00	0.07
5X	50	100	14	-197	0	88	-114	1	0.01	0.00	0.07

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-24	5	-117	1	0.9784	0.9999	1.0000	1.0000	1.0000	0.00	0.02	0.02	Snell. 'zx'= 22
2	-26	-11	-116	1	0.9784	0.9997	1.0000	1.0000	1.0000	0.00	0.02	0.03	Snell. 'zx'= 22
3	-17	3	-79	1	0.9784	0.9999	1.0000	1.0000	1.0000	0.00	0.01	0.02	Snell. 'zx'= 22
4	-20	-20	-78	1	0.9784	0.9998	1.0000	1.0000	1.0000	0.00	0.01	0.03	Snell. 'zx'= 22
5A	-174	-66	-16	1	0.9784	0.9988	0.9997	1.0000	1.0000	0.00	0.00	0.06	Snell. 'zx'= 22
5B	-174	-66	-85	1	0.9784	0.9988	0.9998	1.0000	1.0000	0.00	0.01	0.07	Snell. 'zx'= 22
5C	-174	69	-16	1	0.9784	0.9988	0.9997	1.0000	1.0000	0.00	0.00	0.06	Snell. 'zx'= 22
5D	-174	69	-85	1	0.9784	0.9988	0.9998	1.0000	1.0000	0.00	0.01	0.07	Snell. 'zx'= 22
5E	154	-66	-16	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5F	154	-66	-85	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5G	154	69	-16	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5H	154	69	-85	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5I	-123	-178	-21	1	0.9784	0.9992	0.9998	1.0000	1.0000	0.00	0.00	0.15	Snell. 'zx'= 22
5J	-123	-178	-79	1	0.9784	0.9992	0.9998	1.0000	1.0000	0.00	0.01	0.16	Snell. 'zx'= 22
5K	-123	181	-21	1	0.9784	0.9992	0.9998	1.0000	1.0000	0.00	0.00	0.16	Snell. 'zx'= 22
5L	-123	181	-79	1	0.9784	0.9992	0.9998	1.0000	1.0000	0.00	0.01	0.17	Snell. 'zx'= 22
5M	103	-178	-21	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5N	103	-178	-79	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5O	103	181	-21	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5P	103	181	-79	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.01	--	Snell. 'zx'= 22
5Q	-122	-85	13	1	0.9784	0.9992	0.9999	1.0000	1.0000	0.00	0.00	0.08	Snell. 'zx'= 22
5R	-122	-85	-114	1	0.9784	0.9992	0.9998	1.0000	1.0000	0.00	0.02	0.09	Snell. 'zx'= 22
5S	-122	88	13	1	0.9784	0.9992	0.9999	1.0000	1.0000	0.00	0.00	0.08	Snell. 'zx'= 22
5T	-122	88	-114	1	0.9784	0.9992	0.9998	1.0000	1.0000	0.00	0.02	0.09	Snell. 'zx'= 22
5U	102	-85	13	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5V	102	-85	-114	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'= 22
5W	102	88	13	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.00	--	Snell. 'zx'= 22
5X	102	88	-114	1	0.9784	0.0000	0.0000	0.0000	1.0000	--	0.02	--	Snell. 'zx'= 22

Lavoro: **RIS-SLV** Intestazione lavoro: **STRUTTURA IN ACCIAIO**
Elemento: **TRAVE** Metodo di verifica: **Eurocodice 3 - NTC 2018**
Gruppo: **3** Descrizione: **ARCARECCI**
Tabella: **Tabella travi**
Tipo acciaio: **S 275** Beta piano 'yx': **1.000** Beta piano 'zx': **1.000**
Coeff. k: **1.000** Coeff. kw: **1.000** Carico all'estradosso della trave
Coeff. riduzione dell'area: **0.000** Tipologia sismica: **Senza prescrizioni aggiuntive**
γM0: **1.050** γM1': **1.050** γM1'': **1.050** γM2: **1.250** γrv: **0.000** γM0 Pf: **1.000** γM1 Pf: **1.000**
Tipo collegamento: **bullonato** Connessione su un solo lato Connessione sul lato corto (solo 'L')
Attacco: **Anima** Più di una fila di bulloni

ASTA NUM. 1 NI 32 NF 33 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-6	393	-2	0	-3	-287	--	0.03	0.00	0.26	
2	0	-38	393	-4	0	-6	-289	--	0.03	0.00	0.27	
3	0	-5	260	-1	0	-2	-189	--	0.02	0.00	0.17	
4	0	-59	261	-5	0	-8	-193	--	0.02	0.00	0.19	
5A	0	-111	161	5	0	8	-112	--	0.01	0.00	0.12	
5B	0	-111	164	5	0	8	-125	--	0.01	0.00	0.13	
5C	0	-111	161	-7	0	-10	-112	--	0.01	0.00	0.12	
5D	0	-111	164	-7	0	-10	-125	--	0.01	0.00	0.13	
5E	0	109	161	5	0	8	-112	--	0.01	0.00	0.12	
5F	0	109	164	5	0	8	-125	--	0.01	0.00	0.13	
5G	0	109	161	-7	0	-10	-112	--	0.01	0.00	0.12	
5H	0	109	164	-7	0	-10	-125	--	0.01	0.00	0.13	
5I	0	-305	160	10	0	12	-109	--	0.01	0.01	0.12	
5J	0	-305	164	10	0	12	-129	--	0.01	0.01	0.14	
5K	0	-305	160	-11	0	-14	-109	--	0.01	0.01	0.13	
5L	0	-305	164	-11	0	-14	-129	--	0.01	0.01	0.14	
5M	0	303	160	10	0	12	-109	--	0.01	0.01	0.12	
5N	0	303	164	10	0	12	-129	--	0.01	0.01	0.14	
5O	0	303	160	-11	0	-14	-109	--	0.01	0.01	0.13	
5P	0	303	164	-11	0	-14	-129	--	0.01	0.01	0.14	
5Q	0	-141	160	6	0	9	-111	--	0.01	0.00	0.12	
5R	0	-141	164	6	0	9	-127	--	0.01	0.00	0.13	
5S	0	-141	160	-7	0	-11	-111	--	0.01	0.00	0.12	
5T	0	-141	164	-7	0	-11	-127	--	0.01	0.00	0.13	
5U	0	140	160	6	0	9	-111	--	0.01	0.00	0.12	
5V	0	140	164	6	0	9	-127	--	0.01	0.00	0.13	
5W	0	140	160	-7	0	-11	-111	--	0.01	0.00	0.12	
5X	0	140	164	-7	0	-11	-127	--	0.01	0.00	0.13	
1	183	-6	77	-2	0	1	142	--	0.00	0.00	0.13	
2	183	-38	78	-4	0	1	141	--	0.00	0.00	0.13	
3	183	-5	51	-1	0	1	94	--	0.00	0.00	0.09	
4	183	-59	52	-5	0	0	93	--	0.00	0.00	0.09	
5A	183	-111	30	5	0	-1	63	--	0.00	0.00	0.06	
5B	183	-111	34	5	0	-1	55	--	0.00	0.00	0.05	
5C	183	-111	30	-7	0	2	63	--	0.00	0.00	0.06	
5D	183	-111	34	-7	0	2	55	--	0.00	0.00	0.06	
5E	183	109	30	5	0	-1	63	--	0.00	0.00	0.06	
5F	183	109	34	5	0	-1	55	--	0.00	0.00	0.05	
5G	183	109	30	-7	0	2	63	--	0.00	0.00	0.06	
5H	183	109	34	-7	0	2	55	--	0.00	0.00	0.06	
5I	183	-305	30	10	0	-6	65	--	0.00	0.01	0.08	
5J	183	-305	34	10	0	-6	52	--	0.00	0.01	0.06	
5K	183	-305	30	-11	0	7	65	--	0.00	0.01	0.08	
5L	183	-305	34	-11	0	7	52	--	0.00	0.01	0.06	
5M	183	303	30	10	0	-6	65	--	0.00	0.01	0.08	
5N	183	303	34	10	0	-6	52	--	0.00	0.01	0.06	
5O	183	303	30	-11	0	7	65	--	0.00	0.01	0.08	
5P	183	303	34	-11	0	7	52	--	0.00	0.01	0.06	
5Q	183	-141	30	6	0	-2	63	--	0.00	0.00	0.06	
5R	183	-141	34	6	0	-2	54	--	0.00	0.00	0.06	
5S	183	-141	30	-7	0	3	63	--	0.00	0.00	0.06	
5T	183	-141	34	-7	0	3	54	--	0.00	0.00	0.06	
5U	183	140	30	6	0	-2	63	--	0.00	0.00	0.06	
5V	183	140	34	6	0	-2	54	--	0.00	0.00	0.06	
5W	183	140	30	-7	0	3	63	--	0.00	0.00	0.06	
5X	183	140	34	-7	0	3	54	--	0.00	0.00	0.06	

1	365	-6	-238	-2	0	5	-4	--	0.02	0.00	0.01
2	365	-38	-237	-4	0	8	-4	--	0.02	0.00	0.02
3	365	-5	-157	-1	0	3	-3	--	0.01	0.00	0.01
4	365	-59	-156	-5	0	9	-3	--	0.01	0.00	0.02
5A	365	-111	-100	5	0	-11	-0	--	0.01	0.00	0.02
5B	365	-111	-96	5	0	-11	-3	--	0.01	0.00	0.02
5C	365	-111	-100	-7	0	14	-0	--	0.01	0.00	0.02
5D	365	-111	-96	-7	0	14	-3	--	0.01	0.00	0.02
5E	365	109	-100	5	0	-11	-0	--	0.01	0.00	0.02
5F	365	109	-96	5	0	-11	-3	--	0.01	0.00	0.02
5G	365	109	-100	-7	0	14	-0	--	0.01	0.00	0.02
5H	365	109	-96	-7	0	14	-3	--	0.01	0.00	0.02
5I	365	-305	-100	10	0	-24	1	--	0.01	0.01	0.04
5J	365	-305	-96	10	0	-24	-5	--	0.01	0.01	0.05
5K	365	-305	-100	-11	0	28	1	--	0.01	0.01	0.05
5L	365	-305	-96	-11	0	28	-5	--	0.01	0.01	0.05
5M	365	303	-100	10	0	-24	1	--	0.01	0.01	0.04
5N	365	303	-96	10	0	-24	-5	--	0.01	0.01	0.05
5O	365	303	-100	-11	0	28	1	--	0.01	0.01	0.05
5P	365	303	-96	-11	0	28	-5	--	0.01	0.01	0.05
5Q	365	-141	-100	6	0	-13	-0	--	0.01	0.00	0.02
5R	365	-141	-96	6	0	-13	-3	--	0.01	0.00	0.02
5S	365	-141	-100	-7	0	16	-0	--	0.01	0.00	0.03
5T	365	-141	-96	-7	0	16	-3	--	0.01	0.00	0.03
5U	365	140	-100	6	0	-13	-0	--	0.01	0.00	0.02
5V	365	140	-96	6	0	-13	-3	--	0.01	0.00	0.02
5W	365	140	-100	-7	0	16	-0	--	0.01	0.00	0.03
5X	365	140	-96	-7	0	16	-3	--	0.01	0.00	0.03

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-6	5	-287	--	0.2517	0.9996	1.0003	--	--	0.00	--	0.27	Snell. 'zx'= 148
2	-38	8	-289	--	0.2517	0.9963	1.0021	--	--	0.00	--	0.28	Snell. 'zx'= 148
3	-5	3	-189	--	0.2517	0.9997	1.0003	--	--	0.00	--	0.18	Snell. 'zx'= 148
4	-59	9	-193	--	0.2517	0.9943	1.0042	--	--	0.01	--	0.19	Snell. 'zx'= 148
5A	-111	-11	-112	--	0.2517	0.9893	1.0114	--	--	0.01	--	0.13	Snell. 'zx'= 148
5B	-111	-11	-125	--	0.2517	0.9893	1.0110	--	--	0.01	--	0.14	Snell. 'zx'= 148
5C	-111	14	-112	--	0.2517	0.9893	1.0114	--	--	0.01	--	0.13	Snell. 'zx'= 148
5D	-111	14	-125	--	0.2517	0.9893	1.0110	--	--	0.01	--	0.15	Snell. 'zx'= 148
5E	109	-11	-112	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5F	109	-11	-125	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5G	109	14	-112	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5H	109	14	-125	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5I	-305	-24	-109	--	0.2517	0.9829	1.0317	--	--	0.03	--	0.17	Snell. 'zx'= 148
5J	-305	-24	-129	--	0.2517	0.9829	1.0301	--	--	0.03	--	0.19	Snell. 'zx'= 148
5K	-305	28	-109	--	0.2517	0.9823	1.0317	--	--	0.03	--	0.17	Snell. 'zx'= 148
5L	-305	28	-129	--	0.2517	0.9823	1.0301	--	--	0.03	--	0.19	Snell. 'zx'= 148
5M	303	-24	-109	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5N	303	-24	-129	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5O	303	28	-109	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5P	303	28	-129	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5Q	-141	-13	-111	--	0.2517	0.9863	1.0146	--	--	0.02	--	0.13	Snell. 'zx'= 148
5R	-141	-13	-127	--	0.2517	0.9863	1.0141	--	--	0.02	--	0.15	Snell. 'zx'= 148
5S	-141	16	-111	--	0.2517	0.9863	1.0146	--	--	0.02	--	0.14	Snell. 'zx'= 148
5T	-141	16	-127	--	0.2517	0.9863	1.0141	--	--	0.02	--	0.15	Snell. 'zx'= 148
5U	140	-13	-111	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5V	140	-13	-127	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5W	140	16	-111	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5X	140	16	-127	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148

ASTA NUM. 2 NI 32 NF 9 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-13	393	2	0	2	-287	--	0.03	0.00	0.26	
2	0	-84	393	3	0	2	-289	--	0.03	0.00	0.27	
3	0	-10	259	1	0	2	-189	--	0.02	0.00	0.17	
4	0	-128	260	3	0	2	-193	--	0.02	0.00	0.18	
5A	0	-65	160	5	0	10	-111	--	0.01	0.00	0.12	
5B	0	-65	165	5	0	10	-126	--	0.01	0.00	0.13	
5C	0	-65	160	-4	0	-8	-111	--	0.01	0.00	0.11	
5D	0	-65	165	-4	0	-8	-126	--	0.01	0.00	0.13	
5E	0	56	160	5	0	10	-111	--	0.01	0.00	0.12	
5F	0	56	165	5	0	10	-126	--	0.01	0.00	0.13	
5G	0	56	160	-4	0	-8	-111	--	0.01	0.00	0.11	

5H	0	56	165	-4	0	-8	-126	--	0.01	0.00	0.13
5I	0	-157	159	7	0	12	-107	--	0.01	0.00	0.12
5J	0	-157	166	7	0	12	-131	--	0.01	0.00	0.14
5K	0	-157	159	-6	0	-10	-107	--	0.01	0.00	0.12
5L	0	-157	166	-6	0	-10	-131	--	0.01	0.00	0.14
5M	0	148	159	7	0	12	-107	--	0.01	0.00	0.12
5N	0	148	166	7	0	12	-131	--	0.01	0.00	0.14
5O	0	148	159	-6	0	-10	-107	--	0.01	0.00	0.12
5P	0	148	166	-6	0	-10	-131	--	0.01	0.00	0.14
5Q	0	-88	159	6	0	11	-110	--	0.01	0.00	0.12
5R	0	-88	165	6	0	11	-128	--	0.01	0.00	0.13
5S	0	-88	159	-4	0	-9	-110	--	0.01	0.00	0.11
5T	0	-88	165	-4	0	-9	-128	--	0.01	0.00	0.13
5U	0	79	159	6	0	11	-110	--	0.01	0.00	0.12
5V	0	79	165	6	0	11	-128	--	0.01	0.00	0.13
5W	0	79	159	-4	0	-9	-110	--	0.01	0.00	0.11
5X	0	79	165	-4	0	-9	-128	--	0.01	0.00	0.13
1	183	-13	77	2	0	-1	142	--	0.00	0.00	0.13
2	183	-84	78	3	0	-3	141	--	0.00	0.00	0.13
3	183	-10	51	1	0	-1	94	--	0.00	0.00	0.09
4	183	-128	52	3	0	-4	92	--	0.00	0.00	0.09
5A	183	-65	30	5	0	-0	62	--	0.00	0.00	0.06
5B	183	-65	34	5	0	-0	55	--	0.00	0.00	0.05
5C	183	-65	30	-4	0	-1	62	--	0.00	0.00	0.06
5D	183	-65	34	-4	0	-1	55	--	0.00	0.00	0.05
5E	183	56	30	5	0	-0	62	--	0.00	0.00	0.06
5F	183	56	34	5	0	-0	55	--	0.00	0.00	0.05
5G	183	56	30	-4	0	-1	62	--	0.00	0.00	0.06
5H	183	56	34	-4	0	-1	55	--	0.00	0.00	0.05
5I	183	-157	28	7	0	-1	64	--	0.00	0.00	0.06
5J	183	-157	36	7	0	-1	53	--	0.00	0.00	0.05
5K	183	-157	28	-6	0	-0	64	--	0.00	0.00	0.06
5L	183	-157	36	-6	0	-0	53	--	0.00	0.00	0.05
5M	183	148	28	7	0	-1	64	--	0.00	0.00	0.06
5N	183	148	36	7	0	-1	53	--	0.00	0.00	0.05
5O	183	148	28	-6	0	-0	64	--	0.00	0.00	0.06
5P	183	148	36	-6	0	-0	53	--	0.00	0.00	0.05
5Q	183	-88	29	6	0	-0	62	--	0.00	0.00	0.06
5R	183	-88	35	6	0	-0	55	--	0.00	0.00	0.05
5S	183	-88	29	-4	0	-1	62	--	0.00	0.00	0.06
5T	183	-88	35	-4	0	-1	55	--	0.00	0.00	0.05
5U	183	79	29	6	0	-0	62	--	0.00	0.00	0.06
5V	183	79	35	6	0	-0	55	--	0.00	0.00	0.05
5W	183	79	29	-4	0	-1	62	--	0.00	0.00	0.06
5X	183	79	35	-4	0	-1	55	--	0.00	0.00	0.05
1	365	-13	-238	2	0	-5	-5	--	0.02	0.00	0.01
2	365	-84	-237	3	0	-9	-5	--	0.02	0.00	0.02
3	365	-10	-158	1	0	-4	-3	--	0.01	0.00	0.01
4	365	-128	-157	3	0	-10	-4	--	0.01	0.00	0.02
5A	365	-65	-100	5	0	-10	-3	--	0.01	0.00	0.02
5B	365	-65	-96	5	0	-10	-1	--	0.01	0.00	0.02
5C	365	-65	-100	-4	0	7	-3	--	0.01	0.00	0.01
5D	365	-65	-96	-4	0	7	-1	--	0.01	0.00	0.01
5E	365	56	-100	5	0	-10	-3	--	0.01	0.00	0.02
5F	365	56	-96	5	0	-10	-1	--	0.01	0.00	0.02
5G	365	56	-100	-4	0	7	-3	--	0.01	0.00	0.01
5H	365	56	-96	-4	0	7	-1	--	0.01	0.00	0.01
5I	365	-157	-102	7	0	-14	-3	--	0.01	0.00	0.03
5J	365	-157	-95	7	0	-14	-0	--	0.01	0.00	0.02
5K	365	-157	-102	-6	0	10	-3	--	0.01	0.00	0.02
5L	365	-157	-95	-6	0	10	-0	--	0.01	0.00	0.02
5M	365	148	-102	7	0	-14	-3	--	0.01	0.00	0.03
5N	365	148	-95	7	0	-14	-0	--	0.01	0.00	0.02
5O	365	148	-102	-6	0	10	-3	--	0.01	0.00	0.02
5P	365	148	-95	-6	0	10	-0	--	0.01	0.00	0.02
5Q	365	-88	-101	6	0	-11	-3	--	0.01	0.00	0.02
5R	365	-88	-95	6	0	-11	-1	--	0.01	0.00	0.02
5S	365	-88	-101	-4	0	7	-3	--	0.01	0.00	0.01
5T	365	-88	-95	-4	0	7	-1	--	0.01	0.00	0.01
5U	365	79	-101	6	0	-11	-3	--	0.01	0.00	0.02
5V	365	79	-95	6	0	-11	-1	--	0.01	0.00	0.02
5W	365	79	-101	-4	0	7	-3	--	0.01	0.00	0.01
5X	365	79	-95	-4	0	7	-1	--	0.01	0.00	0.01

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-13	-5	-287	--	0.2517	0.9995	1.0007	--	--	0.00	--	0.27	Snell. 'zx'= 148
2	-84	-9	-289	--	0.2517	1.0010	1.0046	--	--	0.01	--	0.29	Snell. 'zx'= 148
3	-10	-4	-189	--	0.2517	0.9996	1.0007	--	--	0.00	--	0.18	Snell. 'zx'= 148
4	-128	-10	-193	--	0.2517	1.0044	1.0091	--	--	0.01	--	0.20	Snell. 'zx'= 148

5A	-65	-10	-111	--	0.2517	0.9937	1.0067	--	--	0.01	--	0.12	Snell. 'zx'= 148
5B	-65	-10	-126	--	0.2517	0.9937	1.0065	--	--	0.01	--	0.14	Snell. 'zx'= 148
5C	-65	-8	-111	--	0.2517	0.9937	1.0067	--	--	0.01	--	0.12	Snell. 'zx'= 148
5D	-65	-8	-126	--	0.2517	0.9937	1.0065	--	--	0.01	--	0.13	Snell. 'zx'= 148
5E	56	-10	-111	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5F	56	-10	-126	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5G	56	-8	-111	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5H	56	-8	-126	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5I	-157	-14	-107	--	0.2517	0.9849	1.0163	--	--	0.02	--	0.13	Snell. 'zx'= 148
5J	-157	-14	-131	--	0.2517	0.9849	1.0155	--	--	0.02	--	0.16	Snell. 'zx'= 148
5K	-157	-10	-107	--	0.2517	0.9849	1.0163	--	--	0.02	--	0.13	Snell. 'zx'= 148
5L	-157	-10	-131	--	0.2517	0.9849	1.0155	--	--	0.02	--	0.15	Snell. 'zx'= 148
5M	148	-14	-107	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5N	148	-14	-131	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5O	148	-10	-107	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5P	148	-10	-131	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5Q	-88	-11	-110	--	0.2517	0.9915	1.0091	--	--	0.01	--	0.12	Snell. 'zx'= 148
5R	-88	-11	-128	--	0.2517	0.9915	1.0088	--	--	0.01	--	0.14	Snell. 'zx'= 148
5S	-88	-9	-110	--	0.2517	0.9915	1.0091	--	--	0.01	--	0.12	Snell. 'zx'= 148
5T	-88	-9	-128	--	0.2517	0.9915	1.0088	--	--	0.01	--	0.14	Snell. 'zx'= 148
5U	79	-11	-110	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5V	79	-11	-128	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5W	79	-9	-110	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5X	79	-9	-128	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148

ASTA NUM. 3 NI 28 NF 29 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	3	386	-2	0	-1	-261	--	0.02	0.00	0.24	
2	0	-28	387	-1	0	-0	-263	--	0.02	0.00	0.24	
3	0	1	255	-1	0	-1	-172	--	0.02	0.00	0.16	
4	0	-50	256	-0	0	1	-175	--	0.02	0.00	0.16	
5A	0	-105	157	6	0	10	-99	--	0.01	0.00	0.11	
5B	0	-105	162	6	0	10	-117	--	0.01	0.00	0.12	
5C	0	-105	157	-7	0	-11	-99	--	0.01	0.00	0.11	
5D	0	-105	162	-7	0	-11	-117	--	0.01	0.00	0.12	
5E	0	110	157	6	0	10	-99	--	0.01	0.00	0.11	
5F	0	110	162	6	0	10	-117	--	0.01	0.00	0.12	
5G	0	110	157	-7	0	-11	-99	--	0.01	0.00	0.11	
5H	0	110	162	-7	0	-11	-117	--	0.01	0.00	0.12	
5I	0	-292	154	11	0	17	-92	--	0.01	0.01	0.11	
5J	0	-292	164	11	0	17	-124	--	0.01	0.01	0.14	
5K	0	-292	154	-12	0	-17	-92	--	0.01	0.01	0.11	
5L	0	-292	164	-12	0	-17	-124	--	0.01	0.01	0.14	
5M	0	297	154	11	0	17	-92	--	0.01	0.01	0.11	
5N	0	297	164	11	0	17	-124	--	0.01	0.01	0.14	
5O	0	297	154	-12	0	-17	-92	--	0.01	0.01	0.11	
5P	0	297	164	-12	0	-17	-124	--	0.01	0.01	0.14	
5Q	0	-133	155	6	0	11	-92	--	0.01	0.00	0.10	
5R	0	-133	164	6	0	11	-124	--	0.01	0.00	0.13	
5S	0	-133	155	-8	0	-11	-92	--	0.01	0.00	0.10	
5T	0	-133	164	-8	0	-11	-124	--	0.01	0.00	0.13	
5U	0	138	155	6	0	11	-92	--	0.01	0.00	0.10	
5V	0	138	164	6	0	11	-124	--	0.01	0.00	0.13	
5W	0	138	155	-8	0	-11	-92	--	0.01	0.00	0.10	
5X	0	138	164	-8	0	-11	-124	--	0.01	0.00	0.13	
1	183	3	71	-2	0	2	156	--	0.00	0.00	0.14	
2	183	-28	71	-1	0	2	155	--	0.00	0.00	0.14	
3	183	1	47	-1	0	1	103	--	0.00	0.00	0.10	
4	183	-50	48	-0	0	1	102	--	0.00	0.00	0.10	
5A	183	-105	27	6	0	-0	68	--	0.00	0.00	0.07	
5B	183	-105	32	6	0	-0	60	--	0.00	0.00	0.06	
5C	183	-105	27	-7	0	2	68	--	0.00	0.00	0.07	
5D	183	-105	32	-7	0	2	60	--	0.00	0.00	0.06	
5E	183	110	27	6	0	-0	68	--	0.00	0.00	0.07	
5F	183	110	32	6	0	-0	60	--	0.00	0.00	0.06	
5G	183	110	27	-7	0	2	68	--	0.00	0.00	0.07	
5H	183	110	32	-7	0	2	60	--	0.00	0.00	0.06	
5I	183	-292	24	11	0	-3	71	--	0.00	0.01	0.08	
5J	183	-292	34	11	0	-3	57	--	0.00	0.01	0.06	
5K	183	-292	24	-12	0	5	71	--	0.00	0.01	0.08	
5L	183	-292	34	-12	0	5	57	--	0.00	0.01	0.07	
5M	183	297	24	11	0	-3	71	--	0.00	0.01	0.08	
5N	183	297	34	11	0	-3	57	--	0.00	0.01	0.06	
5O	183	297	24	-12	0	5	71	--	0.00	0.01	0.08	
5P	183	297	34	-12	0	5	57	--	0.00	0.01	0.07	
5Q	183	-133	25	6	0	-1	72	--	0.00	0.00	0.07	
5R	183	-133	34	6	0	-1	57	--	0.00	0.00	0.06	
5S	183	-133	25	-8	0	2	72	--	0.00	0.00	0.07	
5T	183	-133	34	-8	0	2	57	--	0.00	0.00	0.06	
5U	183	138	25	6	0	-1	72	--	0.00	0.00	0.07	
5V	183	138	34	6	0	-1	57	--	0.00	0.00	0.06	

5W	183	138	25	-8	0	2	72	--	0.00	0.00	0.07
5X	183	138	34	-8	0	2	57	--	0.00	0.00	0.06
1	365	3	-244	-2	0	5	-3	--	0.02	0.00	0.01
2	365	-28	-244	-1	0	4	-2	--	0.02	0.00	0.01
3	365	1	-162	-1	0	3	-2	--	0.01	0.00	0.01
4	365	-50	-161	-0	0	2	-1	--	0.01	0.00	0.00
5A	365	-105	-104	6	0	-11	-2	--	0.01	0.00	0.02
5B	365	-105	-98	6	0	-11	0	--	0.01	0.00	0.02
5C	365	-105	-104	-7	0	15	-2	--	0.01	0.00	0.03
5D	365	-105	-98	-7	0	15	0	--	0.01	0.00	0.02
5E	365	110	-104	6	0	-11	-2	--	0.01	0.00	0.02
5F	365	110	-98	6	0	-11	0	--	0.01	0.00	0.02
5G	365	110	-104	-7	0	15	-2	--	0.01	0.00	0.03
5H	365	110	-98	-7	0	15	0	--	0.01	0.00	0.02
5I	365	-292	-106	11	0	-23	-3	--	0.01	0.01	0.04
5J	365	-292	-96	11	0	-23	1	--	0.01	0.01	0.04
5K	365	-292	-106	-12	0	27	-3	--	0.01	0.01	0.05
5L	365	-292	-96	-12	0	27	1	--	0.01	0.01	0.04
5M	365	297	-106	11	0	-23	-3	--	0.01	0.01	0.04
5N	365	297	-96	11	0	-23	1	--	0.01	0.01	0.04
5O	365	297	-106	-12	0	27	-3	--	0.01	0.01	0.05
5P	365	297	-96	-12	0	27	1	--	0.01	0.01	0.04
5Q	365	-133	-105	6	0	-12	-2	--	0.01	0.00	0.02
5R	365	-133	-96	6	0	-12	0	--	0.01	0.00	0.02
5S	365	-133	-105	-8	0	16	-2	--	0.01	0.00	0.03
5T	365	-133	-96	-8	0	16	0	--	0.01	0.00	0.03
5U	365	138	-105	6	0	-12	-2	--	0.01	0.00	0.02
5V	365	138	-96	6	0	-12	0	--	0.01	0.00	0.02
5W	365	138	-105	-8	0	16	-2	--	0.01	0.00	0.03
5X	365	138	-96	-8	0	16	0	--	0.01	0.00	0.03

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	3	5	-261	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
2	-28	4	-263	--	0.2517	1.0018	1.0015	--	--	0.00	--	0.25	Snell. 'zx'= 148
3	1	3	-172	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
4	-50	2	-175	--	0.2517	1.0099	1.0036	--	--	0.01	--	0.17	Snell. 'zx'= 148
5A	-105	-11	-99	--	0.2517	0.9898	1.0111	--	--	0.01	--	0.12	Snell. 'zx'= 148
5B	-105	-11	-117	--	0.2517	0.9898	1.0107	--	--	0.01	--	0.13	Snell. 'zx'= 148
5C	-105	15	-99	--	0.2517	0.9898	1.0111	--	--	0.01	--	0.12	Snell. 'zx'= 148
5D	-105	15	-117	--	0.2517	0.9898	1.0107	--	--	0.01	--	0.14	Snell. 'zx'= 148
5E	110	-11	-99	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5F	110	-11	-117	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5G	110	15	-99	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5H	110	15	-117	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5I	-292	-23	-92	--	0.2517	0.9718	1.0314	--	--	0.03	--	0.15	Snell. 'zx'= 148
5J	-292	-23	-124	--	0.2517	0.9718	1.0294	--	--	0.03	--	0.18	Snell. 'zx'= 148
5K	-292	27	-92	--	0.2517	0.9723	1.0314	--	--	0.03	--	0.15	Snell. 'zx'= 148
5L	-292	27	-124	--	0.2517	0.9723	1.0294	--	--	0.03	--	0.18	Snell. 'zx'= 148
5M	297	-23	-92	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5N	297	-23	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5O	297	27	-92	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5P	297	27	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5Q	-133	-12	-92	--	0.2517	0.9872	1.0143	--	--	0.01	--	0.11	Snell. 'zx'= 148
5R	-133	-12	-124	--	0.2517	0.9872	1.0134	--	--	0.01	--	0.14	Snell. 'zx'= 148
5S	-133	16	-92	--	0.2517	0.9872	1.0143	--	--	0.01	--	0.12	Snell. 'zx'= 148
5T	-133	16	-124	--	0.2517	0.9872	1.0134	--	--	0.01	--	0.15	Snell. 'zx'= 148
5U	138	-12	-92	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5V	138	-12	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5W	138	16	-92	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5X	138	16	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148

ASTA NUM. 4 NI 28 NF 11 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-5	386	2	0	2	-261	--	0.02	0.00	0.24	
2	0	-72	386	1	0	1	-263	--	0.02	0.00	0.24	
3	0	-4	255	1	0	2	-172	--	0.02	0.00	0.16	
4	0	-116	256	-0	0	0	-175	--	0.02	0.00	0.16	
5A	0	-56	157	5	0	9	-99	--	0.01	0.00	0.10	
5B	0	-56	162	5	0	9	-116	--	0.01	0.00	0.12	
5C	0	-56	157	-3	0	-7	-99	--	0.01	0.00	0.10	
5D	0	-56	162	-3	0	-7	-116	--	0.01	0.00	0.12	

5E	0	54	157	5	0	9	-99	--	0.01	0.00	0.10
5F	0	54	162	5	0	9	-116	--	0.01	0.00	0.12
5G	0	54	157	-3	0	-7	-99	--	0.01	0.00	0.10
5H	0	54	162	-3	0	-7	-116	--	0.01	0.00	0.12
5I	0	-137	155	6	0	11	-93	--	0.01	0.00	0.10
5J	0	-137	164	6	0	11	-123	--	0.01	0.00	0.13
5K	0	-137	155	-5	0	-10	-93	--	0.01	0.00	0.10
5L	0	-137	164	-5	0	-10	-123	--	0.01	0.00	0.13
5M	0	134	155	6	0	11	-93	--	0.01	0.00	0.10
5N	0	134	164	6	0	11	-123	--	0.01	0.00	0.13
5O	0	134	155	-5	0	-10	-93	--	0.01	0.00	0.10
5P	0	134	164	-5	0	-10	-123	--	0.01	0.00	0.13
5Q	0	-81	155	5	0	8	-92	--	0.01	0.00	0.10
5R	0	-81	164	5	0	8	-124	--	0.01	0.00	0.13
5S	0	-81	155	-3	0	-6	-92	--	0.01	0.00	0.09
5T	0	-81	164	-3	0	-6	-124	--	0.01	0.00	0.12
5U	0	79	155	5	0	8	-92	--	0.01	0.00	0.10
5V	0	79	164	5	0	8	-124	--	0.01	0.00	0.13
5W	0	79	155	-3	0	-6	-92	--	0.01	0.00	0.09
5X	0	79	164	-3	0	-6	-124	--	0.01	0.00	0.12
1	183	-5	71	2	0	-2	156	--	0.00	0.00	0.14
2	183	-72	71	1	0	-1	155	--	0.00	0.00	0.14
3	183	-4	47	1	0	-1	103	--	0.00	0.00	0.10
4	183	-116	47	-0	0	1	102	--	0.00	0.00	0.10
5A	183	-56	27	5	0	-1	68	--	0.00	0.00	0.06
5B	183	-56	32	5	0	-1	60	--	0.00	0.00	0.06
5C	183	-56	27	-3	0	-1	68	--	0.00	0.00	0.06
5D	183	-56	32	-3	0	-1	60	--	0.00	0.00	0.06
5E	183	54	27	5	0	-1	68	--	0.00	0.00	0.06
5F	183	54	32	5	0	-1	60	--	0.00	0.00	0.06
5G	183	54	27	-3	0	-1	68	--	0.00	0.00	0.06
5H	183	54	32	-3	0	-1	60	--	0.00	0.00	0.06
5I	183	-137	25	6	0	-0	72	--	0.00	0.00	0.07
5J	183	-137	34	6	0	-0	57	--	0.00	0.00	0.06
5K	183	-137	25	-5	0	-1	72	--	0.00	0.00	0.07
5L	183	-137	34	-5	0	-1	57	--	0.00	0.00	0.06
5M	183	134	25	6	0	-0	72	--	0.00	0.00	0.07
5N	183	134	34	6	0	-0	57	--	0.00	0.00	0.06
5O	183	134	25	-5	0	-1	72	--	0.00	0.00	0.07
5P	183	134	34	-5	0	-1	57	--	0.00	0.00	0.06
5Q	183	-81	25	5	0	-1	72	--	0.00	0.00	0.07
5R	183	-81	34	5	0	-1	57	--	0.00	0.00	0.05
5S	183	-81	25	-3	0	-1	72	--	0.00	0.00	0.07
5T	183	-81	34	-3	0	-1	57	--	0.00	0.00	0.05
5U	183	79	25	5	0	-1	72	--	0.00	0.00	0.07
5V	183	79	34	5	0	-1	57	--	0.00	0.00	0.05
5W	183	79	25	-3	0	-1	72	--	0.00	0.00	0.07
5X	183	79	34	-3	0	-1	57	--	0.00	0.00	0.05
1	365	-5	-245	2	0	-5	-3	--	0.02	0.00	0.01
2	365	-72	-244	1	0	-2	-3	--	0.02	0.00	0.01
3	365	-4	-162	1	0	-4	-2	--	0.01	0.00	0.01
4	365	-116	-161	-0	0	1	-2	--	0.01	0.00	0.01
5A	365	-56	-103	5	0	-10	-2	--	0.01	0.00	0.02
5B	365	-56	-98	5	0	-10	-0	--	0.01	0.00	0.01
5C	365	-56	-103	-3	0	5	-2	--	0.01	0.00	0.01
5D	365	-56	-98	-3	0	5	-0	--	0.01	0.00	0.01
5E	365	54	-103	5	0	-10	-2	--	0.01	0.00	0.02
5F	365	54	-98	5	0	-10	-0	--	0.01	0.00	0.01
5G	365	54	-103	-3	0	5	-2	--	0.01	0.00	0.01
5H	365	54	-98	-3	0	5	-0	--	0.01	0.00	0.01
5I	365	-137	-105	6	0	-12	-2	--	0.01	0.00	0.02
5J	365	-137	-97	6	0	-12	-0	--	0.01	0.00	0.02
5K	365	-137	-105	-5	0	7	-2	--	0.01	0.00	0.02
5L	365	-137	-97	-5	0	7	-0	--	0.01	0.00	0.01
5M	365	134	-105	6	0	-12	-2	--	0.01	0.00	0.02
5N	365	134	-97	6	0	-12	-0	--	0.01	0.00	0.02
5O	365	134	-105	-5	0	7	-2	--	0.01	0.00	0.02
5P	365	134	-97	-5	0	7	-0	--	0.01	0.00	0.01
5Q	365	-81	-105	5	0	-9	-2	--	0.01	0.00	0.02
5R	365	-81	-96	5	0	-9	-0	--	0.01	0.00	0.01
5S	365	-81	-105	-3	0	5	-2	--	0.01	0.00	0.01
5T	365	-81	-96	-3	0	5	-0	--	0.01	0.00	0.01
5U	365	79	-105	5	0	-9	-2	--	0.01	0.00	0.02
5V	365	79	-96	5	0	-9	-0	--	0.01	0.00	0.01
5W	365	79	-105	-3	0	5	-2	--	0.01	0.00	0.01
5X	365	79	-96	-3	0	5	-0	--	0.01	0.00	0.01

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-5	-5	-261	--	0.2517	0.9999	1.0003	--	--	0.00	--	0.24	Snell. 'zx'= 148

2	-72	-2	-263	--	0.2517	0.9947	1.0040	--	--	0.01	--	0.25	Snell. 'zx'= 148
3	-4	-4	-172	--	0.2517	0.9999	1.0003	--	--	0.00	--	0.16	Snell. 'zx'= 148
4	-116	1	-175	--	0.2517	1.0140	1.0084	--	--	0.01	--	0.17	Snell. 'zx'= 148
5A	-56	-10	-99	--	0.2517	0.9946	1.0060	--	--	0.01	--	0.11	Snell. 'zx'= 148
5B	-56	-10	-116	--	0.2517	0.9946	1.0058	--	--	0.01	--	0.13	Snell. 'zx'= 148
5C	-56	-7	-99	--	0.2517	0.9946	1.0060	--	--	0.01	--	0.11	Snell. 'zx'= 148
5D	-56	-7	-116	--	0.2517	0.9946	1.0058	--	--	0.01	--	0.12	Snell. 'zx'= 148
5E	54	-10	-99	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5F	54	-10	-116	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5G	54	-7	-99	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5H	54	-7	-116	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5I	-137	-12	-93	--	0.2517	0.9868	1.0147	--	--	0.02	--	0.12	Snell. 'zx'= 148
5J	-137	-12	-123	--	0.2517	0.9868	1.0138	--	--	0.02	--	0.14	Snell. 'zx'= 148
5K	-137	-10	-93	--	0.2517	0.9868	1.0147	--	--	0.02	--	0.11	Snell. 'zx'= 148
5L	-137	-10	-123	--	0.2517	0.9868	1.0138	--	--	0.02	--	0.14	Snell. 'zx'= 148
5M	134	-12	-93	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5N	134	-12	-123	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5O	134	-10	-93	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5P	134	-10	-123	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5Q	-81	-9	-92	--	0.2517	0.9921	1.0088	--	--	0.01	--	0.11	Snell. 'zx'= 148
5R	-81	-9	-124	--	0.2517	0.9921	1.0082	--	--	0.01	--	0.13	Snell. 'zx'= 148
5S	-81	-6	-92	--	0.2517	0.9921	1.0088	--	--	0.01	--	0.10	Snell. 'zx'= 148
5T	-81	-6	-124	--	0.2517	0.9921	1.0082	--	--	0.01	--	0.13	Snell. 'zx'= 148
5U	79	-9	-92	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5V	79	-9	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5W	79	-6	-92	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5X	79	-6	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148

ASTA NUM. 5 NI 26 NF 27 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	13	377	-1	0	-0	-223	--	0.02	0.00	0.20	
2	0	15	377	-2	0	-1	-223	--	0.02	0.00	0.21	
3	0	10	250	-1	0	-0	-148	--	0.02	0.00	0.14	
4	0	13	250	-2	0	-2	-149	--	0.02	0.00	0.14	
5A	0	-48	151	6	0	12	-73	--	0.01	0.00	0.08	
5B	0	-48	162	6	0	12	-113	--	0.01	0.00	0.12	
5C	0	-48	151	-7	0	-12	-73	--	0.01	0.00	0.08	
5D	0	-48	162	-7	0	-12	-113	--	0.01	0.00	0.12	
5E	0	59	151	6	0	12	-73	--	0.01	0.00	0.08	
5F	0	59	162	6	0	12	-113	--	0.01	0.00	0.12	
5G	0	59	151	-7	0	-12	-73	--	0.01	0.00	0.08	
5H	0	59	162	-7	0	-12	-113	--	0.01	0.00	0.12	
5I	0	-136	148	10	0	19	-63	--	0.01	0.00	0.09	
5J	0	-136	165	10	0	19	-123	--	0.01	0.00	0.14	
5K	0	-136	148	-11	0	-20	-63	--	0.01	0.00	0.09	
5L	0	-136	165	-11	0	-20	-123	--	0.01	0.00	0.14	
5M	0	146	148	10	0	19	-63	--	0.01	0.00	0.09	
5N	0	146	165	10	0	19	-123	--	0.01	0.00	0.14	
5O	0	146	148	-11	0	-20	-63	--	0.01	0.00	0.09	
5P	0	146	165	-11	0	-20	-123	--	0.01	0.00	0.14	
5Q	0	-68	145	5	0	11	-50	--	0.01	0.00	0.06	
5R	0	-68	168	5	0	11	-136	--	0.01	0.00	0.14	
5S	0	-68	145	-6	0	-11	-50	--	0.01	0.00	0.06	
5T	0	-68	168	-6	0	-11	-136	--	0.01	0.00	0.14	
5U	0	79	145	5	0	11	-50	--	0.01	0.00	0.06	
5V	0	79	168	5	0	11	-136	--	0.01	0.00	0.14	
5W	0	79	145	-6	0	-11	-50	--	0.01	0.00	0.06	
5X	0	79	168	-6	0	-11	-136	--	0.01	0.00	0.14	
1	183	13	62	-1	0	2	178	--	0.00	0.00	0.17	
2	183	15	62	-2	0	2	177	--	0.00	0.00	0.16	
3	183	10	41	-1	0	2	118	--	0.00	0.00	0.11	
4	183	13	42	-2	0	2	117	--	0.00	0.00	0.11	
5A	183	-48	21	6	0	1	84	--	0.00	0.00	0.08	
5B	183	-48	32	6	0	1	65	--	0.00	0.00	0.06	
5C	183	-48	21	-7	0	1	84	--	0.00	0.00	0.08	
5D	183	-48	32	-7	0	1	65	--	0.00	0.00	0.06	
5E	183	59	21	6	0	1	84	--	0.00	0.00	0.08	
5F	183	59	32	6	0	1	65	--	0.00	0.00	0.06	
5G	183	59	21	-7	0	1	84	--	0.00	0.00	0.08	
5H	183	59	32	-7	0	1	65	--	0.00	0.00	0.06	
5I	183	-136	18	10	0	1	88	--	0.00	0.00	0.09	
5J	183	-136	35	10	0	1	60	--	0.00	0.00	0.06	
5K	183	-136	18	-11	0	1	88	--	0.00	0.00	0.08	
5L	183	-136	35	-11	0	1	60	--	0.00	0.00	0.06	
5M	183	146	18	10	0	1	88	--	0.00	0.00	0.09	
5N	183	146	35	10	0	1	60	--	0.00	0.00	0.06	
5O	183	146	18	-11	0	1	88	--	0.00	0.00	0.09	
5P	183	146	35	-11	0	1	60	--	0.00	0.00	0.06	
5Q	183	-68	15	5	0	1	95	--	0.00	0.00	0.09	
5R	183	-68	38	5	0	1	53	--	0.00	0.00	0.05	
5S	183	-68	15	-6	0	1	95	--	0.00	0.00	0.09	

5T	183	-68	38	-6	0	1	53	--	0.00	0.00	0.05
5U	183	79	15	5	0	1	95	--	0.00	0.00	0.09
5V	183	79	38	5	0	1	53	--	0.00	0.00	0.05
5W	183	79	15	-6	0	1	95	--	0.00	0.00	0.09
5X	183	79	38	-6	0	1	53	--	0.00	0.00	0.05
1	365	13	-253	-1	0	5	3	--	0.02	0.00	0.01
2	365	15	-253	-2	0	6	3	--	0.02	0.00	0.01
3	365	10	-167	-1	0	3	3	--	0.01	0.00	0.01
4	365	13	-167	-2	0	5	3	--	0.01	0.00	0.01
5A	365	-48	-109	6	0	-9	3	--	0.01	0.00	0.02
5B	365	-48	-98	6	0	-9	5	--	0.01	0.00	0.02
5C	365	-48	-109	-7	0	13	3	--	0.01	0.00	0.02
5D	365	-48	-98	-7	0	13	5	--	0.01	0.00	0.02
5E	365	59	-109	6	0	-9	3	--	0.01	0.00	0.02
5F	365	59	-98	6	0	-9	5	--	0.01	0.00	0.02
5G	365	59	-109	-7	0	13	3	--	0.01	0.00	0.02
5H	365	59	-98	-7	0	13	5	--	0.01	0.00	0.02
5I	365	-136	-112	10	0	-17	2	--	0.01	0.00	0.03
5J	365	-136	-95	10	0	-17	5	--	0.01	0.00	0.03
5K	365	-136	-112	-11	0	21	2	--	0.01	0.00	0.03
5L	365	-136	-95	-11	0	21	5	--	0.01	0.00	0.04
5M	365	146	-112	10	0	-17	2	--	0.01	0.00	0.03
5N	365	146	-95	10	0	-17	5	--	0.01	0.00	0.03
5O	365	146	-112	-11	0	21	2	--	0.01	0.00	0.03
5P	365	146	-95	-11	0	21	5	--	0.01	0.00	0.04
5Q	365	-68	-115	5	0	-8	3	--	0.01	0.00	0.02
5R	365	-68	-92	5	0	-8	5	--	0.01	0.00	0.02
5S	365	-68	-115	-6	0	12	3	--	0.01	0.00	0.02
5T	365	-68	-92	-6	0	12	5	--	0.01	0.00	0.02
5U	365	79	-115	5	0	-8	3	--	0.01	0.00	0.02
5V	365	79	-92	5	0	-8	5	--	0.01	0.00	0.02
5W	365	79	-115	-6	0	12	3	--	0.01	0.00	0.02
5X	365	79	-92	-6	0	12	5	--	0.01	0.00	0.02

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	13	5	-223	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
2	15	6	-223	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
3	10	3	-148	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
4	13	5	-149	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
5A	-48	12	84	--	0.2517	0.9954	1.0055	--	--	0.01	--	0.10	Snell. 'zx'= 148
5B	-48	12	-113	--	0.2517	0.9954	1.0050	--	--	0.01	--	0.12	Snell. 'zx'= 148
5C	-48	13	84	--	0.2517	0.9954	1.0055	--	--	0.01	--	0.10	Snell. 'zx'= 148
5D	-48	13	-113	--	0.2517	0.9954	1.0050	--	--	0.01	--	0.13	Snell. 'zx'= 148
5E	59	12	84	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5F	59	12	-113	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5G	59	13	84	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5H	59	13	-113	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5I	-136	19	88	--	0.2517	0.9869	1.0160	--	--	0.02	--	0.12	Snell. 'zx'= 148
5J	-136	19	-123	--	0.2517	0.9869	1.0137	--	--	0.02	--	0.15	Snell. 'zx'= 148
5K	-136	21	88	--	0.2517	0.9869	1.0160	--	--	0.02	--	0.12	Snell. 'zx'= 148
5L	-136	21	-123	--	0.2517	0.9869	1.0137	--	--	0.02	--	0.16	Snell. 'zx'= 148
5M	146	19	88	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5N	146	19	-123	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5O	146	21	88	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5P	146	21	-123	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5Q	-68	11	95	--	0.2517	0.9934	1.0084	--	--	0.01	--	0.11	Snell. 'zx'= 148
5R	-68	11	-136	--	0.2517	0.9934	1.0067	--	--	0.01	--	0.15	Snell. 'zx'= 148
5S	-68	12	95	--	0.2517	0.9934	1.0084	--	--	0.01	--	0.11	Snell. 'zx'= 148
5T	-68	12	-136	--	0.2517	0.9934	1.0067	--	--	0.01	--	0.15	Snell. 'zx'= 148
5U	79	11	95	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5V	79	11	-136	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5W	79	12	95	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5X	79	12	-136	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148

ASTA NUM. 6 NI 26 NF 12 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	15	377	2	0	1	-223	--	0.02	0.00	0.20	
2	0	27	377	2	0	0	-223	--	0.02	0.00	0.20	
3	0	11	250	1	0	1	-148	--	0.02	0.00	0.14	
4	0	31	250	1	0	-0	-149	--	0.02	0.00	0.14	
5A	0	-74	151	7	0	12	-74	--	0.01	0.00	0.09	

5B	0	-74	162	7	0	12	-112	--	0.01	0.00	0.12
5C	0	-74	151	-6	0	-12	-74	--	0.01	0.00	0.08
5D	0	-74	162	-6	0	-12	-112	--	0.01	0.00	0.12
5E	0	86	151	7	0	12	-74	--	0.01	0.00	0.09
5F	0	86	162	7	0	12	-112	--	0.01	0.00	0.12
5G	0	86	151	-6	0	-12	-74	--	0.01	0.00	0.09
5H	0	86	162	-6	0	-12	-112	--	0.01	0.00	0.12
5I	0	-196	149	14	0	24	-65	--	0.01	0.01	0.10
5J	0	-196	164	14	0	24	-121	--	0.01	0.01	0.15
5K	0	-196	149	-12	0	-23	-65	--	0.01	0.01	0.10
5L	0	-196	164	-12	0	-23	-121	--	0.01	0.01	0.15
5M	0	209	149	14	0	24	-65	--	0.01	0.01	0.10
5N	0	209	164	14	0	24	-121	--	0.01	0.01	0.15
5O	0	209	149	-12	0	-23	-65	--	0.01	0.01	0.10
5P	0	209	164	-12	0	-23	-121	--	0.01	0.01	0.15
5Q	0	-85	145	7	0	13	-51	--	0.01	0.00	0.07
5R	0	-85	168	7	0	13	-135	--	0.01	0.00	0.14
5S	0	-85	145	-6	0	-12	-51	--	0.01	0.00	0.06
5T	0	-85	168	-6	0	-12	-135	--	0.01	0.00	0.14
5U	0	97	145	7	0	13	-51	--	0.01	0.00	0.07
5V	0	97	168	7	0	13	-135	--	0.01	0.00	0.14
5W	0	97	145	-6	0	-12	-51	--	0.01	0.00	0.07
5X	0	97	168	-6	0	-12	-135	--	0.01	0.00	0.14
1	183	15	62	2	0	-2	178	--	0.00	0.00	0.17
2	183	27	62	2	0	-3	177	--	0.00	0.00	0.17
3	183	11	41	1	0	-2	118	--	0.00	0.00	0.11
4	183	31	42	1	0	-2	117	--	0.00	0.00	0.11
5A	183	-74	21	7	0	-1	84	--	0.00	0.00	0.08
5B	183	-74	32	7	0	-1	64	--	0.00	0.00	0.06
5C	183	-74	21	-6	0	-1	84	--	0.00	0.00	0.08
5D	183	-74	32	-6	0	-1	64	--	0.00	0.00	0.06
5E	183	86	21	7	0	-1	84	--	0.00	0.00	0.08
5F	183	86	32	7	0	-1	64	--	0.00	0.00	0.06
5G	183	86	21	-6	0	-1	84	--	0.00	0.00	0.08
5H	183	86	32	-6	0	-1	64	--	0.00	0.00	0.06
5I	183	-196	19	14	0	-1	89	--	0.00	0.01	0.09
5J	183	-196	34	14	0	-1	59	--	0.00	0.01	0.06
5K	183	-196	19	-12	0	-1	89	--	0.00	0.01	0.09
5L	183	-196	34	-12	0	-1	59	--	0.00	0.01	0.06
5M	183	209	19	14	0	-1	89	--	0.00	0.01	0.09
5N	183	209	34	14	0	-1	59	--	0.00	0.01	0.06
5O	183	209	19	-12	0	-1	89	--	0.00	0.01	0.09
5P	183	209	34	-12	0	-1	59	--	0.00	0.01	0.06
5Q	183	-85	15	7	0	-1	96	--	0.00	0.00	0.09
5R	183	-85	38	7	0	-1	52	--	0.00	0.00	0.05
5S	183	-85	15	-6	0	-1	96	--	0.00	0.00	0.09
5T	183	-85	38	-6	0	-1	52	--	0.00	0.00	0.05
5U	183	97	15	7	0	-1	96	--	0.00	0.00	0.09
5V	183	97	38	7	0	-1	52	--	0.00	0.00	0.05
5W	183	97	15	-6	0	-1	96	--	0.00	0.00	0.09
5X	183	97	38	-6	0	-1	52	--	0.00	0.00	0.05
1	365	15	-253	2	0	-6	3	--	0.02	0.00	0.01
2	365	27	-253	2	0	-6	3	--	0.02	0.00	0.01
3	365	11	-167	1	0	-4	3	--	0.01	0.00	0.01
4	365	31	-167	1	0	-4	3	--	0.01	0.00	0.01
5A	365	-74	-109	7	0	-14	5	--	0.01	0.00	0.03
5B	365	-74	-99	7	0	-14	3	--	0.01	0.00	0.02
5C	365	-74	-109	-6	0	10	5	--	0.01	0.00	0.02
5D	365	-74	-99	-6	0	10	3	--	0.01	0.00	0.02
5E	365	86	-109	7	0	-14	5	--	0.01	0.00	0.03
5F	365	86	-99	7	0	-14	3	--	0.01	0.00	0.02
5G	365	86	-109	-6	0	10	5	--	0.01	0.00	0.02
5H	365	86	-99	-6	0	10	3	--	0.01	0.00	0.02
5I	365	-196	-111	14	0	-26	6	--	0.01	0.01	0.05
5J	365	-196	-96	14	0	-26	1	--	0.01	0.01	0.04
5K	365	-196	-111	-12	0	22	6	--	0.01	0.01	0.04
5L	365	-196	-96	-12	0	22	1	--	0.01	0.01	0.04
5M	365	209	-111	14	0	-26	6	--	0.01	0.01	0.05
5N	365	209	-96	14	0	-26	1	--	0.01	0.01	0.04
5O	365	209	-111	-12	0	22	6	--	0.01	0.01	0.04
5P	365	209	-96	-12	0	22	1	--	0.01	0.01	0.04
5Q	365	-85	-115	7	0	-14	5	--	0.01	0.00	0.03
5R	365	-85	-92	7	0	-14	2	--	0.01	0.00	0.02
5S	365	-85	-115	-6	0	10	5	--	0.01	0.00	0.02
5T	365	-85	-92	-6	0	10	2	--	0.01	0.00	0.02
5U	365	97	-115	7	0	-14	5	--	0.01	0.00	0.03
5V	365	97	-92	7	0	-14	2	--	0.01	0.00	0.02
5W	365	97	-115	-6	0	10	5	--	0.01	0.00	0.02
5X	365	97	-92	-6	0	10	2	--	0.01	0.00	0.02

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	--	----------											
	kg	kg*m											

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1	15	-6	-223	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 0
2	27	-6	-223	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 0
3	11	-4	-148	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 0
4	31	-4	-149	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 0
5A	-74	-14	84	--	0.2517	0.9929	1.0085	--	--	0.01	--	0.10	Snell.	'zx'= 148
5B	-74	-14	-112	--	0.2517	0.9929	1.0076	--	--	0.01	--	0.13	Snell.	'zx'= 148
5C	-74	-12	84	--	0.2517	0.9929	1.0085	--	--	0.01	--	0.10	Snell.	'zx'= 148
5D	-74	-12	-112	--	0.2517	0.9929	1.0076	--	--	0.01	--	0.13	Snell.	'zx'= 148
5E	86	-14	84	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 148
5F	86	-14	-112	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 148
5G	86	-12	84	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 148
5H	86	-12	-112	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 148
5I	-196	-26	89	--	0.2517	0.9810	1.0235	--	--	0.02	--	0.14	Snell.	'zx'= 148
5J	-196	-26	-121	--	0.2517	0.9810	1.0199	--	--	0.02	--	0.17	Snell.	'zx'= 148
5K	-196	-23	89	--	0.2517	0.9810	1.0235	--	--	0.02	--	0.13	Snell.	'zx'= 148
5L	-196	-23	-121	--	0.2517	0.9810	1.0199	--	--	0.02	--	0.16	Snell.	'zx'= 148
5M	209	-26	89	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 148
5N	209	-26	-121	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 148
5O	209	-23	89	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 148
5P	209	-23	-121	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 148
5Q	-85	-14	96	--	0.2517	0.9918	1.0106	--	--	0.01	--	0.12	Snell.	'zx'= 148
5R	-85	-14	-135	--	0.2517	0.9918	1.0083	--	--	0.01	--	0.15	Snell.	'zx'= 148
5S	-85	-12	96	--	0.2517	0.9918	1.0106	--	--	0.01	--	0.11	Snell.	'zx'= 148
5T	-85	-12	-135	--	0.2517	0.9918	1.0083	--	--	0.01	--	0.15	Snell.	'zx'= 148
5U	97	-14	96	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 148
5V	97	-14	-135	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 148
5W	97	-12	96	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 148
5X	97	-12	-135	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell.	'zx'= 148

ASTA NUM. 7 NI 24 NF 25 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-0	370	-1	0	1	-203	--	0.02	0.00	0.18	
2	0	0	370	-1	0	1	-203	--	0.02	0.00	0.19	
3	0	-0	245	-1	0	0	-134	--	0.02	0.00	0.12	
4	0	1	245	-1	0	0	-134	--	0.02	0.00	0.12	
5A	0	-16	146	3	0	7	-57	--	0.01	0.00	0.06	
5B	0	-16	160	3	0	7	-110	--	0.01	0.00	0.11	
5C	0	-16	146	-4	0	-7	-57	--	0.01	0.00	0.06	
5D	0	-16	160	-4	0	-7	-110	--	0.01	0.00	0.11	
5E	0	15	146	3	0	7	-57	--	0.01	0.00	0.06	
5F	0	15	160	3	0	7	-110	--	0.01	0.00	0.11	
5G	0	15	146	-4	0	-7	-57	--	0.01	0.00	0.06	
5H	0	15	160	-4	0	-7	-110	--	0.01	0.00	0.11	
5I	0	-36	143	2	0	5	-47	--	0.01	0.00	0.05	
5J	0	-36	163	2	0	5	-119	--	0.01	0.00	0.12	
5K	0	-36	143	-3	0	-4	-47	--	0.01	0.00	0.05	
5L	0	-36	163	-3	0	-4	-119	--	0.01	0.00	0.12	
5M	0	36	143	2	0	5	-47	--	0.01	0.00	0.05	
5N	0	36	163	2	0	5	-119	--	0.01	0.00	0.12	
5O	0	36	143	-3	0	-4	-47	--	0.01	0.00	0.05	
5P	0	36	163	-3	0	-4	-119	--	0.01	0.00	0.12	
5Q	0	-16	138	3	0	7	-28	--	0.01	0.00	0.04	
5R	0	-16	168	3	0	7	-138	--	0.01	0.00	0.14	
5S	0	-16	138	-4	0	-7	-28	--	0.01	0.00	0.04	
5T	0	-16	168	-4	0	-7	-138	--	0.01	0.00	0.14	
5U	0	16	138	3	0	7	-28	--	0.01	0.00	0.04	
5V	0	16	168	3	0	7	-138	--	0.01	0.00	0.14	
5W	0	16	138	-4	0	-7	-28	--	0.01	0.00	0.04	
5X	0	16	168	-4	0	-7	-138	--	0.01	0.00	0.14	
1	183	-0	55	-1	0	3	186	--	0.00	0.00	0.17	
2	183	0	55	-1	0	3	186	--	0.00	0.00	0.17	
3	183	-0	36	-1	0	2	123	--	0.00	0.00	0.11	
4	183	1	37	-1	0	2	123	--	0.00	0.00	0.11	
5A	183	-16	15	3	0	1	91	--	0.00	0.00	0.08	
5B	183	-16	30	3	0	1	63	--	0.00	0.00	0.06	
5C	183	-16	15	-4	0	1	91	--	0.00	0.00	0.08	
5D	183	-16	30	-4	0	1	63	--	0.00	0.00	0.06	
5E	183	15	15	3	0	1	91	--	0.00	0.00	0.08	
5F	183	15	30	3	0	1	63	--	0.00	0.00	0.06	
5G	183	15	15	-4	0	1	91	--	0.00	0.00	0.08	
5H	183	15	30	-4	0	1	63	--	0.00	0.00	0.06	
5I	183	-36	13	2	0	1	95	--	0.00	0.00	0.09	
5J	183	-36	33	2	0	1	59	--	0.00	0.00	0.06	
5K	183	-36	13	-3	0	1	95	--	0.00	0.00	0.09	
5L	183	-36	33	-3	0	1	59	--	0.00	0.00	0.06	
5M	183	36	13	2	0	1	95	--	0.00	0.00	0.09	
5N	183	36	33	2	0	1	59	--	0.00	0.00	0.06	
5O	183	36	13	-3	0	1	95	--	0.00	0.00	0.09	
5P	183	36	33	-3	0	1	59	--	0.00	0.00	0.06	

5Q	183	-16	8	3	0	2	104	--	0.00	0.00	0.10
5R	183	-16	38	3	0	2	50	--	0.00	0.00	0.05
5S	183	-16	8	-4	0	1	104	--	0.00	0.00	0.10
5T	183	-16	38	-4	0	1	50	--	0.00	0.00	0.05
5U	183	16	8	3	0	2	104	--	0.00	0.00	0.10
5V	183	16	38	3	0	2	50	--	0.00	0.00	0.05
5W	183	16	8	-4	0	1	104	--	0.00	0.00	0.10
5X	183	16	38	-4	0	1	50	--	0.00	0.00	0.05
1	365	-0	-260	-1	0	5	-1	--	0.02	0.00	0.01
2	365	0	-260	-1	0	5	-1	--	0.02	0.00	0.01
3	365	-0	-172	-1	0	3	-1	--	0.01	0.00	0.01
4	365	1	-172	-1	0	3	-1	--	0.01	0.00	0.00
5A	365	-16	-115	3	0	-4	0	--	0.01	0.00	0.01
5B	365	-16	-100	3	0	-4	-1	--	0.01	0.00	0.01
5C	365	-16	-115	-4	0	8	0	--	0.01	0.00	0.01
5D	365	-16	-100	-4	0	8	-1	--	0.01	0.00	0.01
5E	365	15	-115	3	0	-4	0	--	0.01	0.00	0.01
5F	365	15	-100	3	0	-4	-1	--	0.01	0.00	0.01
5G	365	15	-115	-4	0	8	0	--	0.01	0.00	0.01
5H	365	15	-100	-4	0	8	-1	--	0.01	0.00	0.01
5I	365	-36	-117	2	0	-3	-1	--	0.01	0.00	0.01
5J	365	-36	-97	2	0	-3	0	--	0.01	0.00	0.00
5K	365	-36	-117	-3	0	6	-1	--	0.01	0.00	0.01
5L	365	-36	-97	-3	0	6	0	--	0.01	0.00	0.01
5M	365	36	-117	2	0	-3	-1	--	0.01	0.00	0.01
5N	365	36	-97	2	0	-3	0	--	0.01	0.00	0.00
5O	365	36	-117	-3	0	6	-1	--	0.01	0.00	0.01
5P	365	36	-97	-3	0	6	0	--	0.01	0.00	0.01
5Q	365	-16	-123	3	0	-4	-1	--	0.01	0.00	0.01
5R	365	-16	-92	3	0	-4	0	--	0.01	0.00	0.01
5S	365	-16	-123	-4	0	8	-1	--	0.01	0.00	0.01
5T	365	-16	-92	-4	0	8	0	--	0.01	0.00	0.01
5U	365	16	-123	3	0	-4	-1	--	0.01	0.00	0.01
5V	365	16	-92	3	0	-4	0	--	0.01	0.00	0.01
5W	365	16	-123	-4	0	8	-1	--	0.01	0.00	0.01
5X	365	16	-92	-4	0	8	0	--	0.01	0.00	0.01

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-0	5	-203	--	0.2517	1.0000	1.0000	--	--	0.00	--	0.19	Snell. 'zx'= 148
2	0	5	-203	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
3	-0	3	-134	--	0.2517	1.0000	1.0000	--	--	0.00	--	0.13	Snell. 'zx'= 148
4	1	3	-134	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5A	-16	7	91	--	0.2517	0.9987	1.0019	--	--	0.00	--	0.09	Snell. 'zx'= 148
5B	-16	7	-110	--	0.2517	0.9987	1.0016	--	--	0.00	--	0.11	Snell. 'zx'= 148
5C	-16	8	91	--	0.2517	0.9985	1.0019	--	--	0.00	--	0.10	Snell. 'zx'= 148
5D	-16	8	-110	--	0.2517	0.9985	1.0016	--	--	0.00	--	0.11	Snell. 'zx'= 148
5E	15	7	91	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5F	15	7	-110	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5G	15	8	91	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5H	15	8	-110	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5I	-36	5	95	--	0.2517	0.9976	1.0044	--	--	0.00	--	0.10	Snell. 'zx'= 148
5J	-36	5	-119	--	0.2517	0.9976	1.0037	--	--	0.00	--	0.12	Snell. 'zx'= 148
5K	-36	6	95	--	0.2517	0.9965	1.0044	--	--	0.00	--	0.10	Snell. 'zx'= 148
5L	-36	6	-119	--	0.2517	0.9965	1.0037	--	--	0.00	--	0.12	Snell. 'zx'= 148
5M	36	5	95	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5N	36	5	-119	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5O	36	6	95	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5P	36	6	-119	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5Q	-16	7	104	--	0.2517	0.9989	1.0021	--	--	0.00	--	0.11	Snell. 'zx'= 148
5R	-16	7	-138	--	0.2517	0.9989	1.0016	--	--	0.00	--	0.14	Snell. 'zx'= 148
5S	-16	8	104	--	0.2517	0.9984	1.0021	--	--	0.00	--	0.11	Snell. 'zx'= 148
5T	-16	8	-138	--	0.2517	0.9984	1.0016	--	--	0.00	--	0.14	Snell. 'zx'= 148
5U	16	7	104	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5V	16	7	-138	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5W	16	8	104	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5X	16	8	-138	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148

ASTA NUM. 8 NI 24 NF 13 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	0	370	2	0	0	-202	--	0.02	0.00	0.18	
2	0	-2	370	2	0	0	-203	--	0.02	0.00	0.18	

3	0	0	245	1	0	0	-134	--	0.02	0.00	0.12
4	0	-4	245	1	0	0	-134	--	0.02	0.00	0.12
5A	0	-12	146	4	0	7	-57	--	0.01	0.00	0.06
5B	0	-12	160	4	0	7	-110	--	0.01	0.00	0.11
5C	0	-12	146	-3	0	-7	-57	--	0.01	0.00	0.06
5D	0	-12	160	-3	0	-7	-110	--	0.01	0.00	0.11
5E	0	12	146	4	0	7	-57	--	0.01	0.00	0.06
5F	0	12	160	4	0	7	-110	--	0.01	0.00	0.11
5G	0	12	146	-3	0	-7	-57	--	0.01	0.00	0.06
5H	0	12	160	-3	0	-7	-110	--	0.01	0.00	0.11
5I	0	-29	143	3	0	5	-48	--	0.01	0.00	0.05
5J	0	-29	163	3	0	5	-119	--	0.01	0.00	0.12
5K	0	-29	143	-2	0	-5	-48	--	0.01	0.00	0.05
5L	0	-29	163	-2	0	-5	-119	--	0.01	0.00	0.12
5M	0	30	143	3	0	5	-48	--	0.01	0.00	0.05
5N	0	30	163	3	0	5	-119	--	0.01	0.00	0.12
5O	0	30	143	-2	0	-5	-48	--	0.01	0.00	0.05
5P	0	30	163	-2	0	-5	-119	--	0.01	0.00	0.12
5Q	0	-17	138	4	0	6	-28	--	0.01	0.00	0.03
5R	0	-17	168	4	0	6	-139	--	0.01	0.00	0.13
5S	0	-17	138	-2	0	-6	-28	--	0.01	0.00	0.03
5T	0	-17	168	-2	0	-6	-139	--	0.01	0.00	0.13
5U	0	17	138	4	0	6	-28	--	0.01	0.00	0.03
5V	0	17	168	4	0	6	-139	--	0.01	0.00	0.13
5W	0	17	138	-2	0	-6	-28	--	0.01	0.00	0.03
5X	0	17	168	-2	0	-6	-139	--	0.01	0.00	0.13
1	183	0	55	2	0	-3	186	--	0.00	0.00	0.17
2	183	-2	55	2	0	-3	186	--	0.00	0.00	0.17
3	183	0	36	1	0	-2	123	--	0.00	0.00	0.11
4	183	-4	37	1	0	-2	123	--	0.00	0.00	0.11
5A	183	-12	15	4	0	-1	91	--	0.00	0.00	0.08
5B	183	-12	30	4	0	-1	63	--	0.00	0.00	0.06
5C	183	-12	15	-3	0	-1	91	--	0.00	0.00	0.08
5D	183	-12	30	-3	0	-1	63	--	0.00	0.00	0.06
5E	183	12	15	4	0	-1	91	--	0.00	0.00	0.08
5F	183	12	30	4	0	-1	63	--	0.00	0.00	0.06
5G	183	12	15	-3	0	-1	91	--	0.00	0.00	0.08
5H	183	12	30	-3	0	-1	63	--	0.00	0.00	0.06
5I	183	-29	13	3	0	-1	95	--	0.00	0.00	0.09
5J	183	-29	33	3	0	-1	59	--	0.00	0.00	0.06
5K	183	-29	13	-2	0	-1	95	--	0.00	0.00	0.09
5L	183	-29	33	-2	0	-1	59	--	0.00	0.00	0.06
5M	183	30	13	3	0	-1	95	--	0.00	0.00	0.09
5N	183	30	33	3	0	-1	59	--	0.00	0.00	0.06
5O	183	30	13	-2	0	-1	95	--	0.00	0.00	0.09
5P	183	30	33	-2	0	-1	59	--	0.00	0.00	0.06
5Q	183	-17	8	4	0	-1	104	--	0.00	0.00	0.10
5R	183	-17	38	4	0	-1	50	--	0.00	0.00	0.05
5S	183	-17	8	-2	0	-1	104	--	0.00	0.00	0.10
5T	183	-17	38	-2	0	-1	50	--	0.00	0.00	0.05
5U	183	17	8	4	0	-1	104	--	0.00	0.00	0.10
5V	183	17	38	4	0	-1	50	--	0.00	0.00	0.05
5W	183	17	8	-2	0	-1	104	--	0.00	0.00	0.10
5X	183	17	38	-2	0	-1	50	--	0.00	0.00	0.05
1	365	0	-260	2	0	-6	-1	--	0.02	0.00	0.01
2	365	-2	-260	2	0	-5	-1	--	0.02	0.00	0.01
3	365	0	-172	1	0	-4	-1	--	0.01	0.00	0.01
4	365	-4	-172	1	0	-4	-1	--	0.01	0.00	0.01
5A	365	-12	-115	4	0	-8	0	--	0.01	0.00	0.01
5B	365	-12	-100	4	0	-8	-1	--	0.01	0.00	0.01
5C	365	-12	-115	-3	0	4	0	--	0.01	0.00	0.01
5D	365	-12	-100	-3	0	4	-1	--	0.01	0.00	0.01
5E	365	12	-115	4	0	-8	0	--	0.01	0.00	0.01
5F	365	12	-100	4	0	-8	-1	--	0.01	0.00	0.01
5G	365	12	-115	-3	0	4	0	--	0.01	0.00	0.01
5H	365	12	-100	-3	0	4	-1	--	0.01	0.00	0.01
5I	365	-29	-117	3	0	-7	-0	--	0.01	0.00	0.01
5J	365	-29	-98	3	0	-7	-1	--	0.01	0.00	0.01
5K	365	-29	-117	-2	0	2	-0	--	0.01	0.00	0.00
5L	365	-29	-98	-2	0	2	-1	--	0.01	0.00	0.00
5M	365	30	-117	3	0	-7	-0	--	0.01	0.00	0.01
5N	365	30	-98	3	0	-7	-1	--	0.01	0.00	0.01
5O	365	30	-117	-2	0	2	-0	--	0.01	0.00	0.00
5P	365	30	-98	-2	0	2	-1	--	0.01	0.00	0.00
5Q	365	-17	-123	4	0	-7	-1	--	0.01	0.00	0.01
5R	365	-17	-92	4	0	-7	0	--	0.01	0.00	0.01
5S	365	-17	-123	-2	0	3	-1	--	0.01	0.00	0.01
5T	365	-17	-92	-2	0	3	0	--	0.01	0.00	0.00
5U	365	17	-123	4	0	-7	-1	--	0.01	0.00	0.01
5V	365	17	-92	4	0	-7	0	--	0.01	0.00	0.01
5W	365	17	-123	-2	0	3	-1	--	0.01	0.00	0.01
5X	365	17	-92	-2	0	3	0	--	0.01	0.00	0.00

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota

	--	----------											
	kg	kg*m											
-													
1	0	-6	-202	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
2	-2	-5	-203	--	0.2517	1.0001	1.0001	--	--	0.00	--	0.19	Snell. 'zx'= 148
3	0	-4	-134	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
4	-4	-4	-134	--	0.2517	1.0002	1.0003	--	--	0.00	--	0.13	Snell. 'zx'= 148
5A	-12	-8	91	--	0.2517	0.9988	1.0014	--	--	0.00	--	0.09	Snell. 'zx'= 148
5B	-12	-8	-110	--	0.2517	0.9988	1.0013	--	--	0.00	--	0.11	Snell. 'zx'= 148
5C	-12	-7	91	--	0.2517	0.9991	1.0014	--	--	0.00	--	0.09	Snell. 'zx'= 148
5D	-12	-7	-110	--	0.2517	0.9991	1.0013	--	--	0.00	--	0.11	Snell. 'zx'= 148
5E	12	-8	91	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5F	12	-8	-110	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5G	12	-7	91	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5H	12	-7	-110	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5I	-29	-7	95	--	0.2517	0.9972	1.0036	--	--	0.00	--	0.10	Snell. 'zx'= 148
5J	-29	-7	-119	--	0.2517	0.9972	1.0030	--	--	0.00	--	0.12	Snell. 'zx'= 148
5K	-29	-5	95	--	0.2517	0.9986	1.0036	--	--	0.00	--	0.10	Snell. 'zx'= 148
5L	-29	-5	-119	--	0.2517	0.9986	1.0030	--	--	0.00	--	0.12	Snell. 'zx'= 148
5M	30	-7	95	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5N	30	-7	-119	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5O	30	-5	95	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5P	30	-5	-119	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5Q	-17	-7	104	--	0.2517	0.9984	1.0021	--	--	0.00	--	0.11	Snell. 'zx'= 148
5R	-17	-7	-139	--	0.2517	0.9984	1.0016	--	--	0.00	--	0.14	Snell. 'zx'= 148
5S	-17	-6	104	--	0.2517	0.9989	1.0021	--	--	0.00	--	0.10	Snell. 'zx'= 148
5T	-17	-6	-139	--	0.2517	0.9989	1.0016	--	--	0.00	--	0.14	Snell. 'zx'= 148
5U	17	-7	104	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5V	17	-7	-139	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5W	17	-6	104	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5X	17	-6	-139	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148

ASTA NUM. 9 NI 22 NF 23 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	--	----------			----------			------	----------			
	cm	kg			kg*m							
1	0	5	376	-1	0	0	-221	--	0.02	0.00	0.20	
2	0	-4	375	-1	0	-0	-220	--	0.02	0.00	0.20	
3	0	2	248	-1	0	-0	-146	--	0.02	0.00	0.13	
4	0	-13	248	-1	0	-0	-145	--	0.02	0.00	0.13	
5A	0	-88	149	6	0	12	-69	--	0.01	0.00	0.08	
5B	0	-88	161	6	0	12	-113	--	0.01	0.00	0.12	
5C	0	-88	149	-7	0	-12	-69	--	0.01	0.00	0.08	
5D	0	-88	161	-7	0	-12	-113	--	0.01	0.00	0.12	
5E	0	92	149	6	0	12	-69	--	0.01	0.00	0.08	
5F	0	92	161	6	0	12	-113	--	0.01	0.00	0.12	
5G	0	92	149	-7	0	-12	-69	--	0.01	0.00	0.08	
5H	0	92	161	-7	0	-12	-113	--	0.01	0.00	0.12	
5I	0	-200	147	11	0	20	-63	--	0.01	0.01	0.09	
5J	0	-200	163	11	0	20	-119	--	0.01	0.01	0.14	
5K	0	-200	147	-12	0	-20	-63	--	0.01	0.01	0.09	
5L	0	-200	163	-12	0	-20	-119	--	0.01	0.01	0.14	
5M	0	204	147	11	0	20	-63	--	0.01	0.01	0.09	
5N	0	204	163	11	0	20	-119	--	0.01	0.01	0.14	
5O	0	204	147	-12	0	-20	-63	--	0.01	0.01	0.09	
5P	0	204	163	-12	0	-20	-119	--	0.01	0.01	0.14	
5Q	0	-98	143	8	0	14	-48	--	0.01	0.00	0.07	
5R	0	-98	167	8	0	14	-134	--	0.01	0.00	0.14	
5S	0	-98	143	-9	0	-14	-48	--	0.01	0.00	0.07	
5T	0	-98	167	-9	0	-14	-134	--	0.01	0.00	0.14	
5U	0	103	143	8	0	14	-48	--	0.01	0.00	0.07	
5V	0	103	167	8	0	14	-134	--	0.01	0.00	0.14	
5W	0	103	143	-9	0	-14	-48	--	0.01	0.00	0.07	
5X	0	103	167	-9	0	-14	-134	--	0.01	0.00	0.14	
1	183	5	60	-1	0	2	177	--	0.00	0.00	0.16	
2	183	-4	60	-1	0	2	177	--	0.00	0.00	0.16	
3	183	2	40	-1	0	1	117	--	0.00	0.00	0.11	
4	183	-13	40	-1	0	2	117	--	0.00	0.00	0.11	
5A	183	-88	19	6	0	1	85	--	0.00	0.00	0.08	
5B	183	-88	31	6	0	1	61	--	0.00	0.00	0.06	
5C	183	-88	19	-7	0	1	85	--	0.00	0.00	0.08	
5D	183	-88	31	-7	0	1	61	--	0.00	0.00	0.06	
5E	183	92	19	6	0	1	85	--	0.00	0.00	0.08	
5F	183	92	31	6	0	1	61	--	0.00	0.00	0.06	
5G	183	92	19	-7	0	1	85	--	0.00	0.00	0.08	
5H	183	92	31	-7	0	1	61	--	0.00	0.00	0.06	
5I	183	-200	17	11	0	-0	88	--	0.00	0.01	0.09	
5J	183	-200	32	11	0	-0	58	--	0.00	0.01	0.06	
5K	183	-200	17	-12	0	2	88	--	0.00	0.01	0.09	
5L	183	-200	32	-12	0	2	58	--	0.00	0.01	0.06	
5M	183	204	17	11	0	-0	88	--	0.00	0.01	0.09	

5N	183	204	32	11	0	-0	58	--	0.00	0.01	0.06
5O	183	204	17	-12	0	2	88	--	0.00	0.01	0.09
5P	183	204	32	-12	0	2	58	--	0.00	0.01	0.06
5Q	183	-98	13	8	0	0	95	--	0.00	0.00	0.09
5R	183	-98	36	8	0	0	51	--	0.00	0.00	0.05
5S	183	-98	13	-9	0	2	95	--	0.00	0.00	0.09
5T	183	-98	36	-9	0	2	51	--	0.00	0.00	0.05
5U	183	103	13	8	0	0	95	--	0.00	0.00	0.09
5V	183	103	36	8	0	0	51	--	0.00	0.00	0.05
5W	183	103	13	-9	0	2	95	--	0.00	0.00	0.09
5X	183	103	36	-9	0	2	51	--	0.00	0.00	0.05
1	365	5	-255	-1	0	4	-1	--	0.02	0.00	0.01
2	365	-4	-255	-1	0	5	-1	--	0.02	0.00	0.01
3	365	2	-169	-1	0	3	-1	--	0.01	0.00	0.00
4	365	-13	-169	-1	0	4	-1	--	0.01	0.00	0.01
5A	365	-88	-111	6	0	-11	1	--	0.01	0.00	0.02
5B	365	-88	-99	6	0	-11	-1	--	0.01	0.00	0.02
5C	365	-88	-111	-7	0	15	1	--	0.01	0.00	0.02
5D	365	-88	-99	-7	0	15	-1	--	0.01	0.00	0.02
5E	365	92	-111	6	0	-11	1	--	0.01	0.00	0.02
5F	365	92	-99	6	0	-11	-1	--	0.01	0.00	0.02
5G	365	92	-111	-7	0	15	1	--	0.01	0.00	0.02
5H	365	92	-99	-7	0	15	-1	--	0.01	0.00	0.02
5I	365	-200	-113	11	0	-21	2	--	0.01	0.01	0.04
5J	365	-200	-98	11	0	-21	-2	--	0.01	0.01	0.04
5K	365	-200	-113	-12	0	24	2	--	0.01	0.01	0.04
5L	365	-200	-98	-12	0	24	-2	--	0.01	0.01	0.04
5M	365	204	-113	11	0	-21	2	--	0.01	0.01	0.04
5N	365	204	-98	11	0	-21	-2	--	0.01	0.01	0.04
5O	365	204	-113	-12	0	24	2	--	0.01	0.01	0.04
5P	365	204	-98	-12	0	24	-2	--	0.01	0.01	0.04
5Q	365	-98	-117	8	0	-14	1	--	0.01	0.00	0.02
5R	365	-98	-94	8	0	-14	-2	--	0.01	0.00	0.02
5S	365	-98	-117	-9	0	17	1	--	0.01	0.00	0.03
5T	365	-98	-94	-9	0	17	-2	--	0.01	0.00	0.03
5U	365	103	-117	8	0	-14	1	--	0.01	0.00	0.02
5V	365	103	-94	8	0	-14	-2	--	0.01	0.00	0.02
5W	365	103	-117	-9	0	17	1	--	0.01	0.00	0.03
5X	365	103	-94	-9	0	17	-2	--	0.01	0.00	0.03

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	5	4	-221	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
2	-4	5	-220	--	0.2517	1.0003	1.0003	--	--	0.00	--	0.21	Snell. 'zx'= 148
3	2	3	-146	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
4	-13	4	-145	--	0.2517	1.0007	1.0010	--	--	0.00	--	0.14	Snell. 'zx'= 148
5A	-88	12	85	--	0.2517	0.9915	1.0101	--	--	0.01	--	0.10	Snell. 'zx'= 148
5B	-88	12	-113	--	0.2517	0.9915	1.0090	--	--	0.01	--	0.13	Snell. 'zx'= 148
5C	-88	15	85	--	0.2517	0.9915	1.0101	--	--	0.01	--	0.11	Snell. 'zx'= 148
5D	-88	15	-113	--	0.2517	0.9915	1.0090	--	--	0.01	--	0.13	Snell. 'zx'= 148
5E	92	12	85	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5F	92	12	-113	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5G	92	15	85	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5H	92	15	-113	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5I	-200	-21	88	--	0.2517	0.9807	1.0235	--	--	0.02	--	0.13	Snell. 'zx'= 148
5J	-200	-21	-119	--	0.2517	0.9807	1.0202	--	--	0.02	--	0.16	Snell. 'zx'= 148
5K	-200	24	88	--	0.2517	0.9807	1.0235	--	--	0.02	--	0.14	Snell. 'zx'= 148
5L	-200	24	-119	--	0.2517	0.9807	1.0202	--	--	0.02	--	0.16	Snell. 'zx'= 148
5M	204	-21	88	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5N	204	-21	-119	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5O	204	24	88	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5P	204	24	-119	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5Q	-98	14	95	--	0.2517	0.9905	1.0121	--	--	0.01	--	0.12	Snell. 'zx'= 148
5R	-98	14	-134	--	0.2517	0.9905	1.0097	--	--	0.01	--	0.15	Snell. 'zx'= 148
5S	-98	17	95	--	0.2517	0.9905	1.0121	--	--	0.01	--	0.12	Snell. 'zx'= 148
5T	-98	17	-134	--	0.2517	0.9905	1.0097	--	--	0.01	--	0.16	Snell. 'zx'= 148
5U	103	14	95	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5V	103	14	-134	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5W	103	17	95	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5X	103	17	-134	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148

ASTA NUM. 10 NI 22 NF 14 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							

1	0	-1	376	2	0	1	-221	--	0.02	0.00	0.20
2	0	-2	375	2	0	1	-220	--	0.02	0.00	0.20
3	0	-1	248	1	0	1	-146	--	0.02	0.00	0.13
4	0	-3	248	1	0	1	-145	--	0.02	0.00	0.13
5A	0	-97	149	7	0	11	-68	--	0.01	0.00	0.08
5B	0	-97	161	7	0	11	-113	--	0.01	0.00	0.12
5C	0	-97	149	-6	0	-11	-68	--	0.01	0.00	0.08
5D	0	-97	161	-6	0	-11	-113	--	0.01	0.00	0.12
5E	0	96	149	7	0	11	-68	--	0.01	0.00	0.08
5F	0	96	161	7	0	11	-113	--	0.01	0.00	0.12
5G	0	96	149	-6	0	-11	-68	--	0.01	0.00	0.08
5H	0	96	161	-6	0	-11	-113	--	0.01	0.00	0.12
5I	0	-247	147	10	0	17	-63	--	0.01	0.01	0.09
5J	0	-247	163	10	0	17	-119	--	0.01	0.01	0.14
5K	0	-247	147	-9	0	-16	-63	--	0.01	0.01	0.09
5L	0	-247	163	-9	0	-16	-119	--	0.01	0.01	0.14
5M	0	247	147	10	0	17	-63	--	0.01	0.01	0.09
5N	0	247	163	10	0	17	-119	--	0.01	0.01	0.14
5O	0	247	147	-9	0	-16	-63	--	0.01	0.01	0.09
5P	0	247	163	-9	0	-16	-119	--	0.01	0.01	0.14
5Q	0	-138	143	7	0	11	-48	--	0.01	0.00	0.06
5R	0	-138	167	7	0	11	-134	--	0.01	0.00	0.14
5S	0	-138	143	-5	0	-11	-48	--	0.01	0.00	0.06
5T	0	-138	167	-5	0	-11	-134	--	0.01	0.00	0.14
5U	0	137	143	7	0	11	-48	--	0.01	0.00	0.06
5V	0	137	167	7	0	11	-134	--	0.01	0.00	0.14
5W	0	137	143	-5	0	-11	-48	--	0.01	0.00	0.06
5X	0	137	167	-5	0	-11	-134	--	0.01	0.00	0.14
1	183	-1	60	2	0	-2	177	--	0.00	0.00	0.16
2	183	-2	60	2	0	-2	177	--	0.00	0.00	0.16
3	183	-1	40	1	0	-2	117	--	0.00	0.00	0.11
4	183	-3	40	1	0	-2	117	--	0.00	0.00	0.11
5A	183	-97	19	7	0	-1	85	--	0.00	0.00	0.08
5B	183	-97	31	7	0	-1	61	--	0.00	0.00	0.06
5C	183	-97	19	-6	0	-1	85	--	0.00	0.00	0.08
5D	183	-97	31	-6	0	-1	61	--	0.00	0.00	0.06
5E	183	96	19	7	0	-1	85	--	0.00	0.00	0.08
5F	183	96	31	7	0	-1	61	--	0.00	0.00	0.06
5G	183	96	19	-6	0	-1	85	--	0.00	0.00	0.08
5H	183	96	31	-6	0	-1	61	--	0.00	0.00	0.06
5I	183	-247	17	10	0	-2	86	--	0.00	0.01	0.09
5J	183	-247	33	10	0	-2	60	--	0.00	0.01	0.06
5K	183	-247	17	-9	0	-0	86	--	0.00	0.01	0.09
5L	183	-247	33	-9	0	-0	60	--	0.00	0.01	0.06
5M	183	247	17	10	0	-2	86	--	0.00	0.01	0.09
5N	183	247	33	10	0	-2	60	--	0.00	0.01	0.06
5O	183	247	17	-9	0	-0	86	--	0.00	0.01	0.09
5P	183	247	33	-9	0	-0	60	--	0.00	0.01	0.06
5Q	183	-138	13	7	0	-2	94	--	0.00	0.00	0.09
5R	183	-138	37	7	0	-2	52	--	0.00	0.00	0.05
5S	183	-138	13	-5	0	-1	94	--	0.00	0.00	0.09
5T	183	-138	37	-5	0	-1	52	--	0.00	0.00	0.05
5U	183	137	13	7	0	-2	94	--	0.00	0.00	0.09
5V	183	137	37	7	0	-2	52	--	0.00	0.00	0.05
5W	183	137	13	-5	0	-1	94	--	0.00	0.00	0.09
5X	183	137	37	-5	0	-1	52	--	0.00	0.00	0.05
1	365	-1	-255	2	0	-6	-1	--	0.02	0.00	0.01
2	365	-2	-255	2	0	-6	-1	--	0.02	0.00	0.01
3	365	-1	-169	1	0	-4	-1	--	0.01	0.00	0.01
4	365	-3	-169	1	0	-4	-1	--	0.01	0.00	0.01
5A	365	-97	-111	7	0	-14	1	--	0.01	0.00	0.02
5B	365	-97	-99	7	0	-14	-1	--	0.01	0.00	0.02
5C	365	-97	-111	-6	0	10	1	--	0.01	0.00	0.02
5D	365	-97	-99	-6	0	10	-1	--	0.01	0.00	0.02
5E	365	96	-111	7	0	-14	1	--	0.01	0.00	0.02
5F	365	96	-99	7	0	-14	-1	--	0.01	0.00	0.02
5G	365	96	-111	-6	0	10	1	--	0.01	0.00	0.02
5H	365	96	-99	-6	0	10	-1	--	0.01	0.00	0.02
5I	365	-247	-113	10	0	-20	-2	--	0.01	0.01	0.04
5J	365	-247	-97	10	0	-20	1	--	0.01	0.01	0.03
5K	365	-247	-113	-9	0	16	-2	--	0.01	0.01	0.03
5L	365	-247	-97	-9	0	16	1	--	0.01	0.01	0.03
5M	365	247	-113	10	0	-20	-2	--	0.01	0.01	0.04
5N	365	247	-97	10	0	-20	1	--	0.01	0.01	0.03
5O	365	247	-113	-9	0	16	-2	--	0.01	0.01	0.03
5P	365	247	-97	-9	0	16	1	--	0.01	0.01	0.03
5Q	365	-138	-117	7	0	-14	-1	--	0.01	0.00	0.02
5R	365	-138	-93	7	0	-14	1	--	0.01	0.00	0.02
5S	365	-138	-117	-5	0	10	-1	--	0.01	0.00	0.02
5T	365	-138	-93	-5	0	10	1	--	0.01	0.00	0.02
5U	365	137	-117	7	0	-14	-1	--	0.01	0.00	0.02
5V	365	137	-93	7	0	-14	1	--	0.01	0.00	0.02
5W	365	137	-117	-5	0	10	-1	--	0.01	0.00	0.02
5X	365	137	-93	-5	0	10	1	--	0.01	0.00	0.02

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-1	-6	-221	--	0.2517	1.0000	1.0001	--	--	0.00	--	0.21	Snell. 'zx'= 148
2	-2	-6	-220	--	0.2517	1.0001	1.0001	--	--	0.00	--	0.21	Snell. 'zx'= 148
3	-1	-4	-146	--	0.2517	1.0000	1.0001	--	--	0.00	--	0.14	Snell. 'zx'= 148
4	-3	-4	-145	--	0.2517	1.0001	1.0002	--	--	0.00	--	0.14	Snell. 'zx'= 148
5A	-97	-14	85	--	0.2517	0.9906	1.0112	--	--	0.01	--	0.11	Snell. 'zx'= 148
5B	-97	-14	-113	--	0.2517	0.9906	1.0099	--	--	0.01	--	0.13	Snell. 'zx'= 148
5C	-97	-11	85	--	0.2517	0.9906	1.0112	--	--	0.01	--	0.10	Snell. 'zx'= 148
5D	-97	-11	-113	--	0.2517	0.9906	1.0099	--	--	0.01	--	0.13	Snell. 'zx'= 148
5E	96	-14	85	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5F	96	-14	-113	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5G	96	-11	85	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5H	96	-11	-113	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5I	-247	-20	86	--	0.2517	0.9761	1.0285	--	--	0.03	--	0.13	Snell. 'zx'= 148
5J	-247	-20	-119	--	0.2517	0.9761	1.0252	--	--	0.03	--	0.16	Snell. 'zx'= 148
5K	-247	-16	86	--	0.2517	0.9761	1.0285	--	--	0.03	--	0.13	Snell. 'zx'= 148
5L	-247	-16	-119	--	0.2517	0.9761	1.0252	--	--	0.03	--	0.16	Snell. 'zx'= 148
5M	247	-20	86	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5N	247	-20	-119	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5O	247	-16	86	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5P	247	-16	-119	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5Q	-138	-14	94	--	0.2517	0.9867	1.0166	--	--	0.02	--	0.12	Snell. 'zx'= 148
5R	-138	-14	-134	--	0.2517	0.9867	1.0136	--	--	0.02	--	0.16	Snell. 'zx'= 148
5S	-138	-11	94	--	0.2517	0.9867	1.0166	--	--	0.02	--	0.12	Snell. 'zx'= 148
5T	-138	-11	-134	--	0.2517	0.9867	1.0136	--	--	0.02	--	0.15	Snell. 'zx'= 148
5U	137	-14	94	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5V	137	-14	-134	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5W	137	-11	94	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5X	137	-11	-134	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148

ASTA NUM. 11 NI 15 NF 20 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	2	244	2	0	6	-3	--	0.02	0.00	0.01	
2	0	16	245	2	0	4	-3	--	0.02	0.00	0.01	
3	0	5	162	2	0	4	-2	--	0.01	0.00	0.01	
4	0	29	162	0	0	1	-2	--	0.01	0.00	0.00	
5A	0	-94	98	6	0	11	-0	--	0.01	0.00	0.02	
5B	0	-94	104	6	0	11	-2	--	0.01	0.00	0.02	
5C	0	-94	98	-5	0	-6	-0	--	0.01	0.00	0.01	
5D	0	-94	104	-5	0	-6	-2	--	0.01	0.00	0.01	
5E	0	93	98	6	0	11	-0	--	0.01	0.00	0.02	
5F	0	93	104	6	0	11	-2	--	0.01	0.00	0.02	
5G	0	93	98	-5	0	-6	-0	--	0.01	0.00	0.01	
5H	0	93	104	-5	0	-6	-2	--	0.01	0.00	0.01	
5I	0	-86	98	11	0	18	0	--	0.01	0.00	0.03	
5J	0	-86	104	11	0	18	-3	--	0.01	0.00	0.03	
5K	0	-86	98	-9	0	-13	0	--	0.01	0.00	0.02	
5L	0	-86	104	-9	0	-13	-3	--	0.01	0.00	0.02	
5M	0	86	98	11	0	18	0	--	0.01	0.00	0.03	
5N	0	86	104	11	0	18	-3	--	0.01	0.00	0.03	
5O	0	86	98	-9	0	-13	0	--	0.01	0.00	0.02	
5P	0	86	104	-9	0	-13	-3	--	0.01	0.00	0.02	
5Q	0	-89	97	9	0	16	0	--	0.01	0.00	0.02	
5R	0	-89	105	9	0	16	-3	--	0.01	0.00	0.03	
5S	0	-89	97	-7	0	-11	0	--	0.01	0.00	0.02	
5T	0	-89	105	-7	0	-11	-3	--	0.01	0.00	0.02	
5U	0	89	97	9	0	16	0	--	0.01	0.00	0.02	
5V	0	89	105	9	0	16	-3	--	0.01	0.00	0.03	
5W	0	89	97	-7	0	-11	0	--	0.01	0.00	0.02	
5X	0	89	105	-7	0	-11	-3	--	0.01	0.00	0.02	
1	183	2	-71	2	0	1	155	--	0.00	0.00	0.14	
2	183	16	-71	2	0	2	156	--	0.00	0.00	0.14	
3	183	5	-47	2	0	1	103	--	0.00	0.00	0.09	
4	183	29	-46	0	0	1	104	--	0.00	0.00	0.10	
5A	183	-94	-32	6	0	-1	70	--	0.00	0.00	0.07	
5B	183	-94	-26	6	0	-1	59	--	0.00	0.00	0.06	
5C	183	-94	-32	-5	0	2	70	--	0.00	0.00	0.07	
5D	183	-94	-26	-5	0	2	59	--	0.00	0.00	0.06	
5E	183	93	-32	6	0	-1	70	--	0.00	0.00	0.07	
5F	183	93	-26	6	0	-1	59	--	0.00	0.00	0.06	
5G	183	93	-32	-5	0	2	70	--	0.00	0.00	0.07	
5H	183	93	-26	-5	0	2	59	--	0.00	0.00	0.06	
5I	183	-86	-32	11	0	-1	71	--	0.00	0.00	0.07	
5J	183	-86	-26	11	0	-1	58	--	0.00	0.00	0.06	

5K	183	-86	-32	-9	0	2	71	--	0.00	0.00	0.07
5L	183	-86	-26	-9	0	2	58	--	0.00	0.00	0.06
5M	183	86	-32	11	0	-1	71	--	0.00	0.00	0.07
5N	183	86	-26	11	0	-1	58	--	0.00	0.00	0.06
5O	183	86	-32	-9	0	2	71	--	0.00	0.00	0.07
5P	183	86	-26	-9	0	2	58	--	0.00	0.00	0.06
5Q	183	-89	-34	9	0	-1	57	--	0.00	0.00	0.06
5R	183	-89	-25	9	0	-1	72	--	0.00	0.00	0.07
5S	183	-89	-34	-7	0	2	57	--	0.00	0.00	0.06
5T	183	-89	-25	-7	0	2	72	--	0.00	0.00	0.07
5U	183	89	-34	9	0	-1	57	--	0.00	0.00	0.06
5V	183	89	-25	9	0	-1	72	--	0.00	0.00	0.07
5W	183	89	-34	-7	0	2	57	--	0.00	0.00	0.06
5X	183	89	-25	-7	0	2	72	--	0.00	0.00	0.07
1	365	2	-386	2	0	-3	-262	--	0.02	0.00	0.24
2	365	16	-386	2	0	-1	-260	--	0.02	0.00	0.24
3	365	5	-255	2	0	-2	-173	--	0.02	0.00	0.16
4	365	29	-255	0	0	1	-171	--	0.02	0.00	0.16
5A	365	-94	-162	6	0	-12	-97	--	0.01	0.00	0.11
5B	365	-94	-157	6	0	-12	-118	--	0.01	0.00	0.13
5C	365	-94	-162	-5	0	10	-97	--	0.01	0.00	0.10
5D	365	-94	-157	-5	0	10	-118	--	0.01	0.00	0.12
5E	365	93	-162	6	0	-12	-97	--	0.01	0.00	0.11
5F	365	93	-157	6	0	-12	-118	--	0.01	0.00	0.13
5G	365	93	-162	-5	0	10	-97	--	0.01	0.00	0.10
5H	365	93	-157	-5	0	10	-118	--	0.01	0.00	0.12
5I	365	-86	-162	11	0	-20	-97	--	0.01	0.00	0.12
5J	365	-86	-156	11	0	-20	-119	--	0.01	0.00	0.14
5K	365	-86	-162	-9	0	18	-97	--	0.01	0.00	0.11
5L	365	-86	-156	-9	0	18	-119	--	0.01	0.00	0.13
5M	365	86	-162	11	0	-20	-97	--	0.01	0.00	0.12
5N	365	86	-156	11	0	-20	-119	--	0.01	0.00	0.14
5O	365	86	-162	-9	0	18	-97	--	0.01	0.00	0.11
5P	365	86	-156	-9	0	18	-119	--	0.01	0.00	0.13
5Q	365	-89	-164	9	0	-17	-124	--	0.01	0.00	0.14
5R	365	-89	-155	9	0	-17	-92	--	0.01	0.00	0.11
5S	365	-89	-164	-7	0	15	-124	--	0.01	0.00	0.13
5T	365	-89	-155	-7	0	15	-92	--	0.01	0.00	0.11
5U	365	89	-164	9	0	-17	-124	--	0.01	0.00	0.14
5V	365	89	-155	9	0	-17	-92	--	0.01	0.00	0.11
5W	365	89	-164	-7	0	15	-124	--	0.01	0.00	0.13
5X	365	89	-155	-7	0	15	-92	--	0.01	0.00	0.11

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	--	--------------											
	kg	kg*m											
1	2	6	-262	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
2	16	4	-260	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
3	5	4	-173	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
4	29	1	-171	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
5A	-94	-12	-97	--	0.2517	0.9909	1.0100	--	--	0.01	--	0.12	Snell. 'zx'= 148
5B	-94	-12	-118	--	0.2517	0.9909	1.0095	--	--	0.01	--	0.14	Snell. 'zx'= 148
5C	-94	10	-97	--	0.2517	0.9917	1.0100	--	--	0.01	--	0.11	Snell. 'zx'= 148
5D	-94	10	-118	--	0.2517	0.9917	1.0095	--	--	0.01	--	0.13	Snell. 'zx'= 148
5E	93	-12	-97	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5F	93	-12	-118	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5G	93	10	-97	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5H	93	10	-118	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5I	-86	-20	-97	--	0.2517	0.9917	1.0092	--	--	0.01	--	0.13	Snell. 'zx'= 148
5J	-86	-20	-119	--	0.2517	0.9917	1.0087	--	--	0.01	--	0.15	Snell. 'zx'= 148
5K	-86	18	-97	--	0.2517	0.9917	1.0092	--	--	0.01	--	0.12	Snell. 'zx'= 148
5L	-86	18	-119	--	0.2517	0.9917	1.0087	--	--	0.01	--	0.14	Snell. 'zx'= 148
5M	86	-20	-97	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5N	86	-20	-119	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5O	86	18	-97	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5P	86	18	-119	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5Q	-89	-17	-124	--	0.2517	0.9914	1.0090	--	--	0.01	--	0.15	Snell. 'zx'= 148
5R	-89	-17	-92	--	0.2517	0.9914	1.0096	--	--	0.01	--	0.12	Snell. 'zx'= 148
5S	-89	15	-124	--	0.2517	0.9914	1.0090	--	--	0.01	--	0.14	Snell. 'zx'= 148
5T	-89	15	-92	--	0.2517	0.9914	1.0096	--	--	0.01	--	0.11	Snell. 'zx'= 148
5U	89	-17	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5V	89	-17	-92	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5W	89	15	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5X	89	15	-92	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148

ASTA NUM. 12 NI 20 NF 21 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m
Sollecitazioni di calcolo e di verifica Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota

	--										
	cm		kg			kg*m					
1	0	-21	386	-1	0	-0	-262	--	0.02	0.00	0.24
2	0	22	386	-1	0	-1	-260	--	0.02	0.00	0.24
3	0	-10	255	-1	0	-0	-174	--	0.02	0.00	0.16
4	0	61	255	-1	0	-1	-171	--	0.02	0.00	0.16
5A	0	-181	156	3	0	10	-97	--	0.01	0.00	0.11
5B	0	-181	162	3	0	10	-119	--	0.01	0.00	0.13
5C	0	-181	156	-4	0	-10	-97	--	0.01	0.00	0.11
5D	0	-181	162	-4	0	-10	-119	--	0.01	0.00	0.13
5E	0	160	156	3	0	10	-97	--	0.01	0.00	0.11
5F	0	160	162	3	0	10	-119	--	0.01	0.00	0.13
5G	0	160	156	-4	0	-10	-97	--	0.01	0.00	0.11
5H	0	160	162	-4	0	-10	-119	--	0.01	0.00	0.13
5I	0	-261	156	6	0	16	-96	--	0.01	0.01	0.12
5J	0	-261	163	6	0	16	-120	--	0.01	0.01	0.14
5K	0	-261	156	-7	0	-16	-96	--	0.01	0.01	0.12
5L	0	-261	163	-7	0	-16	-120	--	0.01	0.01	0.14
5M	0	241	156	6	0	16	-96	--	0.01	0.01	0.11
5N	0	241	163	6	0	16	-120	--	0.01	0.01	0.14
5O	0	241	156	-7	0	-16	-96	--	0.01	0.01	0.11
5P	0	241	163	-7	0	-16	-120	--	0.01	0.01	0.14
5Q	0	-228	155	5	0	14	-92	--	0.01	0.01	0.11
5R	0	-228	164	5	0	14	-124	--	0.01	0.01	0.14
5S	0	-228	155	-6	0	-14	-92	--	0.01	0.01	0.11
5T	0	-228	164	-6	0	-14	-124	--	0.01	0.01	0.14
5U	0	208	155	5	0	14	-92	--	0.01	0.01	0.11
5V	0	208	164	5	0	14	-124	--	0.01	0.01	0.14
5W	0	208	155	-6	0	-14	-92	--	0.01	0.01	0.11
5X	0	208	164	-6	0	-14	-124	--	0.01	0.01	0.14
1	183	-21	71	-1	0	2	155	--	0.00	0.00	0.14
2	183	22	71	-1	0	1	156	--	0.00	0.00	0.14
3	183	-10	47	-1	0	1	103	--	0.00	0.00	0.10
4	183	61	46	-1	0	0	104	--	0.00	0.00	0.10
5A	183	-181	26	3	0	4	69	--	0.00	0.00	0.07
5B	183	-181	32	3	0	4	59	--	0.00	0.00	0.06
5C	183	-181	26	-4	0	-2	69	--	0.00	0.00	0.07
5D	183	-181	32	-4	0	-2	59	--	0.00	0.00	0.06
5E	183	160	26	3	0	4	69	--	0.00	0.00	0.07
5F	183	160	32	3	0	4	59	--	0.00	0.00	0.06
5G	183	160	26	-4	0	-2	69	--	0.00	0.00	0.07
5H	183	160	32	-4	0	-2	59	--	0.00	0.00	0.06
5I	183	-261	26	6	0	6	70	--	0.00	0.01	0.08
5J	183	-261	33	6	0	6	59	--	0.00	0.01	0.07
5K	183	-261	26	-7	0	-4	70	--	0.00	0.01	0.08
5L	183	-261	33	-7	0	-4	59	--	0.00	0.01	0.07
5M	183	241	26	6	0	6	70	--	0.00	0.01	0.08
5N	183	241	33	6	0	6	59	--	0.00	0.01	0.07
5O	183	241	26	-7	0	-4	70	--	0.00	0.01	0.07
5P	183	241	33	-7	0	-4	59	--	0.00	0.01	0.06
5Q	183	-228	25	5	0	5	72	--	0.00	0.01	0.08
5R	183	-228	34	5	0	5	57	--	0.00	0.01	0.06
5S	183	-228	25	-6	0	-3	72	--	0.00	0.01	0.08
5T	183	-228	34	-6	0	-3	57	--	0.00	0.01	0.06
5U	183	208	25	5	0	5	72	--	0.00	0.01	0.08
5V	183	208	34	5	0	5	57	--	0.00	0.01	0.06
5W	183	208	25	-6	0	-3	72	--	0.00	0.01	0.07
5X	183	208	34	-6	0	-3	57	--	0.00	0.01	0.06
1	365	-21	-244	-1	0	5	-3	--	0.02	0.00	0.01
2	365	22	-245	-1	0	4	-3	--	0.02	0.00	0.01
3	365	-10	-162	-1	0	3	-2	--	0.01	0.00	0.01
4	365	61	-162	-1	0	2	-2	--	0.01	0.00	0.01
5A	365	-181	-104	3	0	-2	-2	--	0.01	0.00	0.01
5B	365	-181	-98	3	0	-2	-1	--	0.01	0.00	0.01
5C	365	-181	-104	-4	0	6	-2	--	0.01	0.00	0.01
5D	365	-181	-98	-4	0	6	-1	--	0.01	0.00	0.01
5E	365	160	-104	3	0	-2	-2	--	0.01	0.00	0.01
5F	365	160	-98	3	0	-2	-1	--	0.01	0.00	0.01
5G	365	160	-104	-4	0	6	-2	--	0.01	0.00	0.01
5H	365	160	-98	-4	0	6	-1	--	0.01	0.00	0.01
5I	365	-261	-104	6	0	-5	-2	--	0.01	0.01	0.02
5J	365	-261	-97	6	0	-5	0	--	0.01	0.01	0.01
5K	365	-261	-104	-7	0	8	-2	--	0.01	0.01	0.02
5L	365	-261	-97	-7	0	8	0	--	0.01	0.01	0.02
5M	365	241	-104	6	0	-5	-2	--	0.01	0.01	0.01
5N	365	241	-97	6	0	-5	0	--	0.01	0.01	0.01
5O	365	241	-104	-7	0	8	-2	--	0.01	0.01	0.02
5P	365	241	-97	-7	0	8	0	--	0.01	0.01	0.02
5Q	365	-228	-105	5	0	-4	-2	--	0.01	0.01	0.01
5R	365	-228	-97	5	0	-4	-0	--	0.01	0.01	0.01
5S	365	-228	-105	-6	0	8	-2	--	0.01	0.01	0.02
5T	365	-228	-97	-6	0	8	-0	--	0.01	0.01	0.02
5U	365	208	-105	5	0	-4	-2	--	0.01	0.01	0.01
5V	365	208	-97	5	0	-4	-0	--	0.01	0.01	0.01
5W	365	208	-105	-6	0	8	-2	--	0.01	0.01	0.02
5X	365	208	-97	-6	0	8	-0	--	0.01	0.01	0.02

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-21	5	-262	--	0.2517	1.0011	1.0012	--	--	0.00	--	0.25	Snell. 'zx'= 148
2	22	4	-260	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
3	-10	3	-173	--	0.2517	1.0004	1.0007	--	--	0.00	--	0.16	Snell. 'zx'= 148
4	61	2	-171	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5A	-181	10	-97	--	0.2517	1.0024	1.0193	--	--	0.02	--	0.12	Snell. 'zx'= 148
5B	-181	10	-119	--	0.2517	1.0024	1.0184	--	--	0.02	--	0.14	Snell. 'zx'= 148
5C	-181	-10	-97	--	0.2517	0.9845	1.0193	--	--	0.02	--	0.12	Snell. 'zx'= 148
5D	-181	-10	-119	--	0.2517	0.9845	1.0184	--	--	0.02	--	0.14	Snell. 'zx'= 148
5E	160	10	-97	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5F	160	10	-119	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5G	160	-10	-97	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5H	160	-10	-119	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5I	-261	16	-96	--	0.2517	0.9996	1.0279	--	--	0.03	--	0.14	Snell. 'zx'= 148
5J	-261	16	-120	--	0.2517	0.9996	1.0265	--	--	0.03	--	0.16	Snell. 'zx'= 148
5K	-261	-16	-96	--	0.2517	0.9834	1.0279	--	--	0.03	--	0.14	Snell. 'zx'= 148
5L	-261	-16	-120	--	0.2517	0.9834	1.0265	--	--	0.03	--	0.16	Snell. 'zx'= 148
5M	241	16	-96	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5N	241	16	-120	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5O	241	-16	-96	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5P	241	-16	-120	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5Q	-228	14	-92	--	0.2517	0.9999	1.0245	--	--	0.03	--	0.13	Snell. 'zx'= 148
5R	-228	14	-124	--	0.2517	0.9999	1.0230	--	--	0.03	--	0.16	Snell. 'zx'= 148
5S	-228	-14	-92	--	0.2517	0.9837	1.0245	--	--	0.03	--	0.13	Snell. 'zx'= 148
5T	-228	-14	-124	--	0.2517	0.9837	1.0230	--	--	0.03	--	0.16	Snell. 'zx'= 148
5U	208	14	-92	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5V	208	14	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5W	208	-14	-92	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5X	208	-14	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148

ASTA NUM. 13 NI 10 NF 17 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	9	238	2	0	4	-4	--	0.02	0.00	0.01	
2	0	25	238	2	0	6	-4	--	0.02	0.00	0.01	
3	0	10	157	1	0	3	-3	--	0.01	0.00	0.01	
4	0	36	158	3	0	6	-3	--	0.01	0.00	0.01	
5A	0	-106	97	9	0	17	-0	--	0.01	0.00	0.03	
5B	0	-106	100	9	0	17	-3	--	0.01	0.00	0.03	
5C	0	-106	97	-8	0	-13	-0	--	0.01	0.00	0.02	
5D	0	-106	100	-8	0	-13	-3	--	0.01	0.00	0.02	
5E	0	111	97	9	0	17	-0	--	0.01	0.00	0.03	
5F	0	111	100	9	0	17	-3	--	0.01	0.00	0.03	
5G	0	111	97	-8	0	-13	-0	--	0.01	0.00	0.02	
5H	0	111	100	-8	0	-13	-3	--	0.01	0.00	0.02	
5I	0	-91	96	10	0	16	-1	--	0.01	0.00	0.02	
5J	0	-91	100	10	0	16	-3	--	0.01	0.00	0.03	
5K	0	-91	96	-8	0	-13	-1	--	0.01	0.00	0.02	
5L	0	-91	100	-8	0	-13	-3	--	0.01	0.00	0.02	
5M	0	96	96	10	0	16	-1	--	0.01	0.00	0.02	
5N	0	96	100	10	0	16	-3	--	0.01	0.00	0.03	
5O	0	96	96	-8	0	-13	-1	--	0.01	0.00	0.02	
5P	0	96	100	-8	0	-13	-3	--	0.01	0.00	0.02	
5Q	0	-100	95	10	0	18	-0	--	0.01	0.00	0.03	
5R	0	-100	101	10	0	18	-3	--	0.01	0.00	0.03	
5S	0	-100	95	-9	0	-15	-0	--	0.01	0.00	0.02	
5T	0	-100	101	-9	0	-15	-3	--	0.01	0.00	0.03	
5U	0	105	95	10	0	18	-0	--	0.01	0.00	0.03	
5V	0	105	101	10	0	18	-3	--	0.01	0.00	0.03	
5W	0	105	95	-9	0	-15	-0	--	0.01	0.00	0.02	
5X	0	105	101	-9	0	-15	-3	--	0.01	0.00	0.03	
1	183	9	-78	2	0	2	142	--	0.00	0.00	0.13	
2	183	25	-77	2	0	1	143	--	0.00	0.00	0.13	
3	183	10	-52	1	0	1	93	--	0.00	0.00	0.09	
4	183	36	-50	3	0	1	95	--	0.00	0.00	0.09	
5A	183	-106	-34	9	0	1	62	--	0.00	0.00	0.06	
5B	183	-106	-31	9	0	1	55	--	0.00	0.00	0.05	
5C	183	-106	-34	-8	0	1	62	--	0.00	0.00	0.06	
5D	183	-106	-31	-8	0	1	55	--	0.00	0.00	0.05	
5E	183	111	-34	9	0	1	62	--	0.00	0.00	0.06	
5F	183	111	-31	9	0	1	55	--	0.00	0.00	0.05	
5G	183	111	-34	-8	0	1	62	--	0.00	0.00	0.06	

5H	183	111	-31	-8	0	1	55	--	0.00	0.00	0.05
5I	183	-91	-34	10	0	-1	55	--	0.00	0.00	0.05
5J	183	-91	-30	10	0	-1	62	--	0.00	0.00	0.06
5K	183	-91	-34	-8	0	3	55	--	0.00	0.00	0.06
5L	183	-91	-30	-8	0	3	62	--	0.00	0.00	0.06
5M	183	96	-34	10	0	-1	55	--	0.00	0.00	0.05
5N	183	96	-30	10	0	-1	62	--	0.00	0.00	0.06
5O	183	96	-34	-8	0	3	55	--	0.00	0.00	0.06
5P	183	96	-30	-8	0	3	62	--	0.00	0.00	0.06
5Q	183	-100	-35	10	0	-0	55	--	0.00	0.00	0.05
5R	183	-100	-29	10	0	-0	63	--	0.00	0.00	0.06
5S	183	-100	-35	-9	0	2	55	--	0.00	0.00	0.05
5T	183	-100	-29	-9	0	2	63	--	0.00	0.00	0.06
5U	183	105	-35	10	0	-0	55	--	0.00	0.00	0.05
5V	183	105	-29	10	0	-0	63	--	0.00	0.00	0.06
5W	183	105	-35	-9	0	2	55	--	0.00	0.00	0.06
5X	183	105	-29	-9	0	2	63	--	0.00	0.00	0.06
1	365	9	-393	2	0	-1	-288	--	0.03	0.00	0.26
2	365	25	-392	2	0	-3	-285	--	0.03	0.00	0.26
3	365	10	-260	1	0	-1	-191	--	0.02	0.00	0.18
4	365	36	-259	3	0	-4	-187	--	0.02	0.00	0.18
5A	365	-106	-164	9	0	-15	-113	--	0.01	0.00	0.13
5B	365	-106	-161	9	0	-15	-124	--	0.01	0.00	0.14
5C	365	-106	-164	-8	0	15	-113	--	0.01	0.00	0.13
5D	365	-106	-161	-8	0	15	-124	--	0.01	0.00	0.14
5E	365	111	-164	9	0	-15	-113	--	0.01	0.00	0.13
5F	365	111	-161	9	0	-15	-124	--	0.01	0.00	0.14
5G	365	111	-164	-8	0	15	-113	--	0.01	0.00	0.13
5H	365	111	-161	-8	0	15	-124	--	0.01	0.00	0.14
5I	365	-91	-164	10	0	-19	-126	--	0.01	0.00	0.14
5J	365	-91	-160	10	0	-19	-111	--	0.01	0.00	0.13
5K	365	-91	-164	-8	0	18	-126	--	0.01	0.00	0.14
5L	365	-91	-160	-8	0	18	-111	--	0.01	0.00	0.13
5M	365	96	-164	10	0	-19	-126	--	0.01	0.00	0.14
5N	365	96	-160	10	0	-19	-111	--	0.01	0.00	0.13
5O	365	96	-164	-8	0	18	-126	--	0.01	0.00	0.14
5P	365	96	-160	-8	0	18	-111	--	0.01	0.00	0.13
5Q	365	-100	-165	10	0	-19	-128	--	0.01	0.00	0.14
5R	365	-100	-160	10	0	-19	-109	--	0.01	0.00	0.13
5S	365	-100	-165	-9	0	18	-128	--	0.01	0.00	0.14
5T	365	-100	-160	-9	0	18	-109	--	0.01	0.00	0.13
5U	365	105	-165	10	0	-19	-128	--	0.01	0.00	0.14
5V	365	105	-160	10	0	-19	-109	--	0.01	0.00	0.13
5W	365	105	-165	-9	0	18	-128	--	0.01	0.00	0.14
5X	365	105	-160	-9	0	18	-109	--	0.01	0.00	0.13

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	9	4	-288	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
2	25	6	-285	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
3	10	3	-191	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
4	36	6	-187	--	0.0000	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 0
5A	-106	17	-113	--	0.2517	0.9898	1.0109	--	--	0.01	--	0.14	Snell. 'zx'= 148
5B	-106	17	-124	--	0.2517	0.9898	1.0106	--	--	0.01	--	0.15	Snell. 'zx'= 148
5C	-106	15	-113	--	0.2517	0.9898	1.0109	--	--	0.01	--	0.13	Snell. 'zx'= 148
5D	-106	15	-124	--	0.2517	0.9898	1.0106	--	--	0.01	--	0.15	Snell. 'zx'= 148
5E	111	17	-113	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5F	111	17	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5G	111	15	-113	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5H	111	15	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5I	-91	-19	-126	--	0.2517	0.9912	1.0091	--	--	0.01	--	0.15	Snell. 'zx'= 148
5J	-91	-19	-111	--	0.2517	0.9912	1.0094	--	--	0.01	--	0.14	Snell. 'zx'= 148
5K	-91	18	-126	--	0.2517	0.9912	1.0091	--	--	0.01	--	0.15	Snell. 'zx'= 148
5L	-91	18	-111	--	0.2517	0.9912	1.0094	--	--	0.01	--	0.14	Snell. 'zx'= 148
5M	96	-19	-126	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5N	96	-19	-111	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5O	96	18	-126	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5P	96	18	-111	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5Q	-100	-19	-128	--	0.2517	0.9904	1.0100	--	--	0.01	--	0.15	Snell. 'zx'= 148
5R	-100	-19	-109	--	0.2517	0.9904	1.0103	--	--	0.01	--	0.14	Snell. 'zx'= 148
5S	-100	18	-128	--	0.2517	0.9904	1.0100	--	--	0.01	--	0.15	Snell. 'zx'= 148
5T	-100	18	-109	--	0.2517	0.9904	1.0103	--	--	0.01	--	0.14	Snell. 'zx'= 148
5U	105	-19	-128	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5V	105	-19	-109	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5W	105	18	-128	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5X	105	18	-109	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148

ASTA NUM. 14 NI 17 NF 19 Lungh. 365.0 cm SEZ. 3 Pf RETTANGOLARI 120x 60x 4.0

categoria: p.p. y Permanente Neve qy tot.
qy medio: 10.36 32.50 78.00 120.86 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm		kg			kg*m						
1	0	-14	393	-1	0	-2	-287	--	0.03	0.00	0.26	
2	0	30	392	-2	0	-2	-285	--	0.03	0.00	0.26	
3	0	-5	260	-1	0	-2	-191	--	0.02	0.00	0.18	
4	0	70	259	-3	0	-2	-188	--	0.02	0.00	0.18	
5A	0	-197	160	7	0	10	-113	--	0.01	0.01	0.12	
5B	0	-197	164	7	0	10	-124	--	0.01	0.01	0.13	
5C	0	-197	160	-8	0	-11	-113	--	0.01	0.01	0.12	
5D	0	-197	164	-8	0	-11	-124	--	0.01	0.01	0.13	
5E	0	182	160	7	0	10	-113	--	0.01	0.00	0.12	
5F	0	182	164	7	0	10	-124	--	0.01	0.00	0.13	
5G	0	182	160	-8	0	-11	-113	--	0.01	0.00	0.12	
5H	0	182	164	-8	0	-11	-124	--	0.01	0.00	0.13	
5I	0	-282	160	7	0	9	-111	--	0.01	0.01	0.12	
5J	0	-282	165	7	0	9	-125	--	0.01	0.01	0.13	
5K	0	-282	160	-8	0	-10	-111	--	0.01	0.01	0.12	
5L	0	-282	165	-8	0	-10	-125	--	0.01	0.01	0.14	
5M	0	266	160	7	0	9	-111	--	0.01	0.01	0.12	
5N	0	266	165	7	0	9	-125	--	0.01	0.01	0.13	
5O	0	266	160	-8	0	-10	-111	--	0.01	0.01	0.12	
5P	0	266	165	-8	0	-10	-125	--	0.01	0.01	0.13	
5Q	0	-243	159	6	0	9	-110	--	0.01	0.01	0.12	
5R	0	-243	165	6	0	9	-127	--	0.01	0.01	0.13	
5S	0	-243	159	-7	0	-10	-110	--	0.01	0.01	0.12	
5T	0	-243	165	-7	0	-10	-127	--	0.01	0.01	0.14	
5U	0	227	159	6	0	9	-110	--	0.01	0.01	0.12	
5V	0	227	165	6	0	9	-127	--	0.01	0.01	0.13	
5W	0	227	159	-7	0	-10	-110	--	0.01	0.01	0.12	
5X	0	227	165	-7	0	-10	-127	--	0.01	0.01	0.14	
1	183	-14	78	-1	0	0	142	--	0.00	0.00	0.13	
2	183	30	77	-2	0	2	143	--	0.00	0.00	0.13	
3	183	-5	52	-1	0	0	93	--	0.00	0.00	0.09	
4	183	70	50	-3	0	3	95	--	0.00	0.00	0.09	
5A	183	-197	30	7	0	-3	61	--	0.00	0.01	0.06	
5B	183	-197	34	7	0	-3	57	--	0.00	0.01	0.06	
5C	183	-197	30	-8	0	4	61	--	0.00	0.01	0.07	
5D	183	-197	34	-8	0	4	57	--	0.00	0.01	0.06	
5E	183	182	30	7	0	-3	61	--	0.00	0.00	0.06	
5F	183	182	34	7	0	-3	57	--	0.00	0.00	0.06	
5G	183	182	30	-8	0	4	61	--	0.00	0.00	0.06	
5H	183	182	34	-8	0	4	57	--	0.00	0.00	0.06	
5I	183	-282	29	7	0	-6	61	--	0.00	0.01	0.07	
5J	183	-282	35	7	0	-6	57	--	0.00	0.01	0.07	
5K	183	-282	29	-8	0	6	61	--	0.00	0.01	0.07	
5L	183	-282	35	-8	0	6	57	--	0.00	0.01	0.07	
5M	183	266	29	7	0	-6	61	--	0.00	0.01	0.07	
5N	183	266	35	7	0	-6	57	--	0.00	0.01	0.07	
5O	183	266	29	-8	0	6	61	--	0.00	0.01	0.07	
5P	183	266	35	-8	0	6	57	--	0.00	0.01	0.07	
5Q	183	-243	29	6	0	-4	62	--	0.00	0.01	0.07	
5R	183	-243	35	6	0	-4	56	--	0.00	0.01	0.06	
5S	183	-243	29	-7	0	4	62	--	0.00	0.01	0.07	
5T	183	-243	35	-7	0	4	56	--	0.00	0.01	0.06	
5U	183	227	29	6	0	-4	62	--	0.00	0.01	0.07	
5V	183	227	35	6	0	-4	56	--	0.00	0.01	0.06	
5W	183	227	29	-7	0	4	62	--	0.00	0.01	0.07	
5X	183	227	35	-7	0	4	56	--	0.00	0.01	0.06	
1	365	-14	-238	-1	0	3	-4	--	0.02	0.00	0.01	
2	365	30	-238	-2	0	6	-5	--	0.02	0.00	0.01	
3	365	-5	-157	-1	0	2	-3	--	0.01	0.00	0.01	
4	365	70	-158	-3	0	7	-3	--	0.01	0.00	0.01	
5A	365	-197	-100	7	0	-16	-4	--	0.01	0.01	0.03	
5B	365	-197	-97	7	0	-16	0	--	0.01	0.01	0.03	
5C	365	-197	-100	-8	0	18	-4	--	0.01	0.01	0.03	
5D	365	-197	-97	-8	0	18	0	--	0.01	0.01	0.03	
5E	365	182	-100	7	0	-16	-4	--	0.01	0.00	0.03	
5F	365	182	-97	7	0	-16	0	--	0.01	0.00	0.03	
5G	365	182	-100	-8	0	18	-4	--	0.01	0.00	0.03	
5H	365	182	-97	-8	0	18	0	--	0.01	0.00	0.03	
5I	365	-282	-101	7	0	-20	-5	--	0.01	0.01	0.04	
5J	365	-282	-96	7	0	-20	1	--	0.01	0.01	0.04	
5K	365	-282	-101	-8	0	22	-5	--	0.01	0.01	0.04	
5L	365	-282	-96	-8	0	22	1	--	0.01	0.01	0.04	
5M	365	266	-101	7	0	-20	-5	--	0.01	0.01	0.04	
5N	365	266	-96	7	0	-20	1	--	0.01	0.01	0.04	
5O	365	266	-101	-8	0	22	-5	--	0.01	0.01	0.04	
5P	365	266	-96	-8	0	22	1	--	0.01	0.01	0.04	
5Q	365	-243	-101	6	0	-17	-4	--	0.01	0.01	0.03	
5R	365	-243	-95	6	0	-17	1	--	0.01	0.01	0.03	
5S	365	-243	-101	-7	0	19	-4	--	0.01	0.01	0.04	
5T	365	-243	-95	-7	0	19	1	--	0.01	0.01	0.03	
5U	365	227	-101	6	0	-17	-4	--	0.01	0.01	0.03	
5V	365	227	-95	6	0	-17	1	--	0.01	0.01	0.03	

5W	365	227	-101	-7	0	19	-4	--	0.01	0.01	0.04	
5X	365	227	-95	-7	0	19	1	--	0.01	0.01	0.03	

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	--	----------											
	kg	kg*m											
1	-14	3	-287	--	0.2517	0.9986	1.0008	--	--	0.00	--	0.27	Snell. 'zx'= 148
2	30	6	-285	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
3	-5	2	-191	--	0.2517	0.9995	1.0003	--	--	0.00	--	0.18	Snell. 'zx'= 148
4	70	7	-188	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5A	-197	-16	-113	--	0.2517	0.9841	1.0202	--	--	0.02	--	0.15	Snell. 'zx'= 148
5B	-197	-16	-124	--	0.2517	0.9841	1.0198	--	--	0.02	--	0.16	Snell. 'zx'= 148
5C	-197	18	-113	--	0.2517	0.9830	1.0202	--	--	0.02	--	0.15	Snell. 'zx'= 148
5D	-197	18	-124	--	0.2517	0.9830	1.0198	--	--	0.02	--	0.16	Snell. 'zx'= 148
5E	182	-16	-113	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5F	182	-16	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5G	182	18	-113	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5H	182	18	-124	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5I	-282	-20	-111	--	0.2517	0.9896	1.0289	--	--	0.03	--	0.16	Snell. 'zx'= 148
5J	-282	-20	-125	--	0.2517	0.9896	1.0282	--	--	0.03	--	0.17	Snell. 'zx'= 148
5K	-282	22	-111	--	0.2517	0.9871	1.0289	--	--	0.03	--	0.16	Snell. 'zx'= 148
5L	-282	22	-125	--	0.2517	0.9871	1.0282	--	--	0.03	--	0.18	Snell. 'zx'= 148
5M	266	-20	-111	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5N	266	-20	-125	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5O	266	22	-111	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5P	266	22	-125	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5Q	-243	-17	-110	--	0.2517	0.9845	1.0250	--	--	0.03	--	0.15	Snell. 'zx'= 148
5R	-243	-17	-127	--	0.2517	0.9845	1.0243	--	--	0.03	--	0.17	Snell. 'zx'= 148
5S	-243	19	-110	--	0.2517	0.9828	1.0250	--	--	0.03	--	0.15	Snell. 'zx'= 148
5T	-243	19	-127	--	0.2517	0.9828	1.0243	--	--	0.03	--	0.17	Snell. 'zx'= 148
5U	227	-17	-110	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5V	227	-17	-127	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5W	227	19	-110	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148
5X	227	19	-127	--	0.2517	0.0000	0.0000	--	--	--	--	--	Snell. 'zx'= 148

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Lavoro: **RIS-SLV** Intestazione lavoro: **STRUTTURA IN ACCIAIO**
Elemento: **TRAVE** Metodo di verifica: **Eurocodice 3 - NTC 2018**
Gruppo: **1** Descrizione: **COLONNE**
Tabella: **Tabella pilastri**
Tipo acciaio: **S 275** Beta piano 'yx': **0.700** Beta piano 'zx': **0.700**
Coeff. k: **1.000** Coeff. kw: **1.000** Carico all'intradosso della trave
Coeff. riduzione dell'area: **0.000** Tipologia sismica yx: **Senza prescrizioni aggiuntive**
Tipologia sismica zx: **Senza prescrizioni aggiuntive**
γM0: **1.050** γM1': **1.050** γM1'': **1.050** γM2: **1.250** γrv: **0.000** γM0 Pf: **1.000** γM1 Pf: **1.000**
Tipo collegamento: **bullonato** Connessione su un solo lato Connessione sul lato corto (solo 'L')
Attacco: **Anima** Più di una fila di bulloni

ASTA NUM. 1 NI 1 NF 7 Lungh. 380.0 cm SEZ. 1 Ps HEA 200

categoria: p.p. y Vento qy tot.
qy medio: 0.00 110.00 110.00 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-1127	118	13	0	41	-256	2	0.00	0.01	0.02	
2	0	-1172	-233	-235	0	-184	222	2	0.01	0.01	0.03	
3	0	-809	412	10	0	32	-620	2	0.01	0.01	0.05	
4	0	-884	-172	-402	0	-342	176	2	0.01	0.01	0.06	
5A	0	-1133	-945	34	0	126	2084	2	0.03	0.01	0.18	
5B	0	-1133	719	34	0	126	-1880	2	0.03	0.01	0.16	
5C	0	-1133	-945	-26	0	-101	2084	2	0.03	0.01	0.18	
5D	0	-1133	719	-26	0	-101	-1880	2	0.03	0.01	0.16	
5E	0	-213	-945	34	0	126	2084	2	0.03	0.00	0.18	
5F	0	-213	719	34	0	126	-1880	2	0.03	0.00	0.16	
5G	0	-213	-945	-26	0	-101	2084	2	0.03	0.00	0.18	
5H	0	-213	719	-26	0	-101	-1880	2	0.03	0.00	0.16	
5I	0	-963	-516	68	0	251	1036	2	0.02	0.01	0.09	
5J	0	-963	290	68	0	251	-832	2	0.01	0.01	0.07	
5K	0	-963	-516	-60	0	-226	1036	2	0.02	0.01	0.09	
5L	0	-963	290	-60	0	-226	-832	2	0.01	0.01	0.07	
5M	0	-384	-516	68	0	251	1036	2	0.02	0.00	0.09	
5N	0	-384	290	68	0	251	-832	2	0.01	0.00	0.07	
5O	0	-384	-516	-60	0	-226	1036	2	0.02	0.00	0.09	
5P	0	-384	290	-60	0	-226	-832	2	0.01	0.00	0.07	
5Q	0	-1192	-565	38	0	140	1009	2	0.02	0.01	0.09	
5R	0	-1192	338	38	0	140	-806	2	0.01	0.01	0.07	
5S	0	-1192	-565	-30	0	-115	1009	2	0.02	0.01	0.09	
5T	0	-1192	338	-30	0	-115	-806	2	0.01	0.01	0.07	
5U	0	-155	-565	38	0	140	1009	2	0.02	0.00	0.09	
5V	0	-155	338	38	0	140	-806	2	0.01	0.00	0.07	
5W	0	-155	-565	-30	0	-115	1009	2	0.02	0.00	0.09	
5X	0	-155	338	-30	0	-115	-806	2	0.01	0.00	0.07	
1	190	-1023	-71	13	0	17	-211	2	0.00	0.01	0.02	
2	190	-1068	-233	-47	0	83	-220	2	0.01	0.01	0.02	
3	190	-705	98	10	0	14	-135	2	0.00	0.00	0.01	
4	190	-780	-172	-89	0	124	-151	2	0.01	0.01	0.02	
5A	190	-1029	-945	34	0	61	281	2	0.03	0.01	0.02	
5B	190	-1029	719	34	0	61	-507	2	0.03	0.01	0.04	
5C	190	-1029	-945	-26	0	-51	281	2	0.03	0.01	0.02	
5D	190	-1029	719	-26	0	-51	-507	2	0.03	0.01	0.04	
5E	190	-109	-945	34	0	61	281	2	0.03	0.00	0.02	
5F	190	-109	719	34	0	61	-507	2	0.03	0.00	0.04	
5G	190	-109	-945	-26	0	-51	281	2	0.03	0.00	0.02	
5H	190	-109	719	-26	0	-51	-507	2	0.03	0.00	0.04	
5I	190	-859	-516	68	0	122	47	2	0.02	0.01	0.02	
5J	190	-859	290	68	0	122	-273	2	0.01	0.01	0.02	
5K	190	-859	-516	-60	0	-113	47	2	0.02	0.01	0.02	
5L	190	-859	290	-60	0	-113	-273	2	0.01	0.01	0.02	
5M	190	-279	-516	68	0	122	47	2	0.02	0.00	0.02	
5N	190	-279	290	68	0	122	-273	2	0.01	0.00	0.02	
5O	190	-279	-516	-60	0	-113	47	2	0.02	0.00	0.02	
5P	190	-279	290	-60	0	-113	-273	2	0.01	0.00	0.02	
5Q	190	-1087	-565	38	0	68	-83	2	0.02	0.01	0.01	
5R	190	-1087	338	38	0	68	-144	2	0.01	0.01	0.01	
5S	190	-1087	-565	-30	0	-58	-83	2	0.02	0.01	0.01	
5T	190	-1087	338	-30	0	-58	-144	2	0.01	0.01	0.01	
5U	190	-51	-565	38	0	68	-83	2	0.02	0.00	0.01	
5V	190	-51	338	38	0	68	-144	2	0.01	0.00	0.01	
5W	190	-51	-565	-30	0	-58	-83	2	0.02	0.00	0.01	
5X	190	-51	338	-30	0	-58	-144	2	0.01	0.00	0.01	

1	380	-918	-259	13	0	-7	-524	2	0.01	0.01	0.05
2	380	-963	-233	142	0	-7	-662	2	0.01	0.01	0.06
3	380	-600	-215	10	0	-5	-246	2	0.01	0.00	0.02
4	380	-676	-172	225	0	-5	-477	2	0.01	0.00	0.04
5A	380	-925	-945	34	0	-4	-1522	2	0.03	0.01	0.13
5B	380	-925	719	34	0	-4	866	2	0.03	0.01	0.08
5C	380	-925	-945	-26	0	-2	-1522	2	0.03	0.01	0.13
5D	380	-925	719	-26	0	-2	866	2	0.03	0.01	0.08
5E	380	-5	-945	34	0	-4	-1522	2	0.03	0.00	0.13
5F	380	-5	719	34	0	-4	866	2	0.03	0.00	0.08
5G	380	-5	-945	-26	0	-2	-1522	2	0.03	0.00	0.13
5H	380	-5	719	-26	0	-2	866	2	0.03	0.00	0.08
5I	380	-754	-516	68	0	-6	-942	2	0.02	0.01	0.08
5J	380	-754	290	68	0	-6	286	2	0.01	0.01	0.02
5K	380	-754	-516	-60	0	0	-942	2	0.02	0.01	0.08
5L	380	-754	290	-60	0	0	286	2	0.01	0.01	0.02
5M	380	-175	-516	68	0	-6	-942	2	0.02	0.00	0.08
5N	380	-175	290	68	0	-6	286	2	0.01	0.00	0.02
5O	380	-175	-516	-60	0	0	-942	2	0.02	0.00	0.08
5P	380	-175	290	-60	0	0	286	2	0.01	0.00	0.02
5Q	380	-983	-565	38	0	-5	-1174	2	0.02	0.01	0.10
5R	380	-983	338	38	0	-5	518	2	0.01	0.01	0.05
5S	380	-983	-565	-30	0	-1	-1174	2	0.02	0.01	0.10
5T	380	-983	338	-30	0	-1	518	2	0.01	0.01	0.05
5U	380	54	-565	38	0	-5	-1174	2	0.02	0.00	0.10
5V	380	54	338	38	0	-5	518	2	0.01	0.00	0.05
5W	380	54	-565	-30	0	-1	-1174	2	0.02	0.00	0.10
5X	380	54	338	-30	0	-1	518	2	0.01	0.00	0.05

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-1127	41	-524	2	0.7730	1.0425	1.0029	1.0000	0.9849	0.01	0.05	0.06	Snell. 'zx'= 53
2	-1172	-184	-662	2	0.7730	1.0042	1.0005	0.9998	0.9686	0.01	0.06	0.10	Snell. 'zx'= 53
3	-809	32	-620	2	0.7730	1.0388	1.0019	1.0000	0.9849	0.01	0.05	0.07	Snell. 'zx'= 53
4	-884	-342	-477	2	0.7730	1.0010	1.0007	0.9999	0.9696	0.01	0.04	0.11	Snell. 'zx'= 53
5A	-1133	126	2084	2	0.7730	1.0115	0.9978	0.9994	0.9757	0.01	0.19	0.21	Snell. 'zx'= 53
5B	-1133	126	-1880	2	0.7730	1.0115	0.9990	0.9996	0.9720	0.01	0.17	0.20	Snell. 'zx'= 53
5C	-1133	-101	2084	2	0.7730	1.0148	0.9978	0.9994	0.9757	0.01	0.19	0.21	Snell. 'zx'= 53
5D	-1133	-101	-1880	2	0.7730	1.0148	0.9990	0.9996	0.9720	0.01	0.17	0.19	Snell. 'zx'= 53
5E	-213	126	2084	2	0.7730	1.0022	0.9996	0.9999	0.9757	0.00	0.19	0.21	Snell. 'zx'= 53
5F	-213	126	-1880	2	0.7730	1.0022	0.9998	0.9999	0.9720	0.00	0.17	0.19	Snell. 'zx'= 53
5G	-213	-101	2084	2	0.7730	1.0028	0.9996	0.9999	0.9757	0.00	0.19	0.20	Snell. 'zx'= 53
5H	-213	-101	-1880	2	0.7730	1.0028	0.9998	0.9999	0.9720	0.00	0.17	0.18	Snell. 'zx'= 53
5I	-963	251	1036	2	0.7730	1.0037	0.9979	0.9995	0.9745	0.01	0.09	0.15	Snell. 'zx'= 53
5J	-963	251	-832	2	0.7730	1.0037	1.0001	0.9998	0.9689	0.01	0.07	0.13	Snell. 'zx'= 53
5K	-963	-226	1036	2	0.7730	1.0045	0.9979	0.9995	0.9745	0.01	0.09	0.14	Snell. 'zx'= 53
5L	-963	-226	-832	2	0.7730	1.0045	1.0001	0.9998	0.9689	0.01	0.07	0.12	Snell. 'zx'= 53
5M	-384	251	1036	2	0.7730	1.0015	0.9992	0.9998	0.9745	0.00	0.09	0.14	Snell. 'zx'= 53
5N	-384	251	-832	2	0.7730	1.0015	1.0000	0.9999	0.9689	0.00	0.07	0.12	Snell. 'zx'= 53
5O	-384	-226	1036	2	0.7730	1.0018	0.9992	0.9998	0.9745	0.00	0.09	0.14	Snell. 'zx'= 53
5P	-384	-226	-832	2	0.7730	1.0018	1.0000	0.9999	0.9689	0.00	0.07	0.12	Snell. 'zx'= 53
5Q	-1192	140	-1174	2	0.7730	1.0106	0.9975	0.9994	0.9749	0.01	0.11	0.14	Snell. 'zx'= 53
5R	-1192	140	-806	2	0.7730	1.0106	0.9989	0.9996	0.9747	0.01	0.07	0.11	Snell. 'zx'= 53
5S	-1192	-115	-1174	2	0.7730	1.0135	0.9975	0.9994	0.9749	0.01	0.11	0.13	Snell. 'zx'= 53
5T	-1192	-115	-806	2	0.7730	1.0135	0.9989	0.9996	0.9747	0.01	0.07	0.10	Snell. 'zx'= 53
5U	-155	140	-1174	2	0.7730	1.0014	0.9997	0.9999	0.9749	0.00	0.11	0.13	Snell. 'zx'= 53
5V	-155	140	-806	2	0.7730	1.0014	0.9999	0.9999	0.9747	0.00	0.07	0.10	Snell. 'zx'= 53
5W	-155	-115	-1174	2	0.7730	1.0017	0.9997	0.9999	0.9749	0.00	0.11	0.12	Snell. 'zx'= 53
5X	-155	-115	-806	2	0.7730	1.0017	0.9999	0.9999	0.9747	0.00	0.07	0.09	Snell. 'zx'= 53

ASTA NUM. 2 NI 2 NF 8 Lungh. 320.0 cm SEZ. 1 Ps HEA 200

categoria: p.p. y Vento qy tot.
qy medio: 0.00 110.00 110.00 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-1239	605	6	0	4	-625	2	0.02	0.01	0.05	
2	0	-1036	238	-196	0	-133	-117	2	0.01	0.01	0.02	
3	0	-967	777	4	0	2	-924	2	0.03	0.01	0.08	
4	0	-628	166	-331	0	-228	-78	2	0.01	0.00	0.04	
5A	0	-1381	-1005	15	0	38	2419	2	0.04	0.01	0.21	
5B	0	-1381	1240	15	0	38	-2529	2	0.04	0.01	0.22	
5C	0	-1381	-1005	-7	0	-32	2419	2	0.04	0.01	0.21	
5D	0	-1381	1240	-7	0	-32	-2529	2	0.04	0.01	0.22	
5E	0	45	-1005	15	0	38	2419	2	0.04	0.00	0.21	
5F	0	45	1240	15	0	38	-2529	2	0.04	0.00	0.22	

5G	0	45	-1005	-7	0	-32	2419	2	0.04	0.00	0.21
5H	0	45	1240	-7	0	-32	-2529	2	0.04	0.00	0.22
5I	0	-1562	-424	27	0	77	1107	2	0.02	0.01	0.10
5J	0	-1562	660	27	0	77	-1217	2	0.02	0.01	0.11
5K	0	-1562	-424	-19	0	-71	1107	2	0.02	0.01	0.10
5L	0	-1562	660	-19	0	-71	-1217	2	0.02	0.01	0.11
5M	0	226	-424	27	0	77	1107	2	0.02	0.00	0.10
5N	0	226	660	27	0	77	-1217	2	0.02	0.00	0.11
5O	0	226	-424	-19	0	-71	1107	2	0.02	0.00	0.10
5P	0	226	660	-19	0	-71	-1217	2	0.02	0.00	0.11
5Q	0	-1547	-486	23	0	63	1109	2	0.02	0.01	0.10
5R	0	-1547	722	23	0	63	-1218	2	0.03	0.01	0.11
5S	0	-1547	-486	-15	0	-57	1109	2	0.02	0.01	0.10
5T	0	-1547	722	-15	0	-57	-1218	2	0.03	0.01	0.11
5U	0	211	-486	23	0	63	1109	2	0.02	0.00	0.10
5V	0	211	722	23	0	63	-1218	2	0.03	0.00	0.11
5W	0	211	-486	-15	0	-57	1109	2	0.02	0.00	0.10
5X	0	211	722	-15	0	-57	-1218	2	0.03	0.00	0.11
1	160	-1152	447	6	0	-5	216	2	0.02	0.01	0.02
2	160	-948	238	-37	0	53	264	2	0.01	0.01	0.02
3	160	-879	513	4	0	-5	108	2	0.02	0.01	0.01
4	160	-540	166	-67	0	91	188	2	0.01	0.00	0.02
5A	160	-1293	-1005	15	0	14	800	2	0.04	0.01	0.07
5B	160	-1293	1240	15	0	14	-532	2	0.04	0.01	0.05
5C	160	-1293	-1005	-7	0	-20	800	2	0.04	0.01	0.07
5D	160	-1293	1240	-7	0	-20	-532	2	0.04	0.01	0.05
5E	160	133	-1005	15	0	14	800	2	0.04	0.00	0.07
5F	160	133	1240	15	0	14	-532	2	0.04	0.00	0.05
5G	160	133	-1005	-7	0	-20	800	2	0.04	0.00	0.07
5H	160	133	1240	-7	0	-20	-532	2	0.04	0.00	0.05
5I	160	-1474	-424	27	0	33	414	2	0.02	0.01	0.04
5J	160	-1474	660	27	0	33	-146	2	0.02	0.01	0.01
5K	160	-1474	-424	-19	0	-40	414	2	0.02	0.01	0.04
5L	160	-1474	660	-19	0	-40	-146	2	0.02	0.01	0.01
5M	160	314	-424	27	0	33	414	2	0.02	0.00	0.04
5N	160	314	660	27	0	33	-146	2	0.02	0.00	0.01
5O	160	314	-424	-19	0	-40	414	2	0.02	0.00	0.04
5P	160	314	660	-19	0	-40	-146	2	0.02	0.00	0.01
5Q	160	-1459	-486	23	0	26	294	2	0.02	0.01	0.03
5R	160	-1459	722	23	0	26	-27	2	0.03	0.01	0.00
5S	160	-1459	-486	-15	0	-33	294	2	0.02	0.01	0.03
5T	160	-1459	722	-15	0	-33	-27	2	0.03	0.01	0.01
5U	160	298	-486	23	0	26	294	2	0.02	0.00	0.03
5V	160	298	722	23	0	26	-27	2	0.03	0.00	0.00
5W	160	298	-486	-15	0	-33	294	2	0.02	0.00	0.03
5X	160	298	722	-15	0	-33	-27	2	0.03	0.00	0.01
1	320	-1064	288	6	0	-14	804	2	0.01	0.01	0.07
2	320	-860	238	121	0	-14	646	2	0.01	0.01	0.06
3	320	-792	249	4	0	-11	718	2	0.01	0.01	0.06
4	320	-452	166	197	0	-12	453	2	0.01	0.00	0.04
5A	320	-1206	-1005	15	0	-10	-820	2	0.04	0.01	0.07
5B	320	-1206	1240	15	0	-10	1464	2	0.04	0.01	0.13
5C	320	-1206	-1005	-7	0	-9	-820	2	0.04	0.01	0.07
5D	320	-1206	1240	-7	0	-9	1464	2	0.04	0.01	0.13
5E	320	221	-1005	15	0	-10	-820	2	0.04	0.00	0.07
5F	320	221	1240	15	0	-10	1464	2	0.04	0.00	0.13
5G	320	221	-1005	-7	0	-9	-820	2	0.04	0.00	0.07
5H	320	221	1240	-7	0	-9	1464	2	0.04	0.00	0.13
5I	320	-1387	-424	27	0	-10	-279	2	0.02	0.01	0.02
5J	320	-1387	660	27	0	-10	924	2	0.02	0.01	0.08
5K	320	-1387	-424	-19	0	-9	-279	2	0.02	0.01	0.02
5L	320	-1387	660	-19	0	-9	924	2	0.02	0.01	0.08
5M	320	402	-424	27	0	-10	-279	2	0.02	0.00	0.02
5N	320	402	660	27	0	-10	924	2	0.02	0.00	0.08
5O	320	402	-424	-19	0	-9	-279	2	0.02	0.00	0.02
5P	320	402	660	-19	0	-9	924	2	0.02	0.00	0.08
5Q	320	-1371	-486	23	0	-10	-520	2	0.02	0.01	0.05
5R	320	-1371	722	23	0	-10	1164	2	0.03	0.01	0.10
5S	320	-1371	-486	-15	0	-9	-520	2	0.02	0.01	0.05
5T	320	-1371	722	-15	0	-9	1164	2	0.03	0.01	0.10
5U	320	386	-486	23	0	-10	-520	2	0.02	0.00	0.05
5V	320	386	722	23	0	-10	1164	2	0.03	0.00	0.10
5W	320	386	-486	-15	0	-9	-520	2	0.02	0.00	0.05
5X	320	386	722	-15	0	-9	1164	2	0.03	0.00	0.10

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-1239	-14	804	2	0.8302	1.0827	0.9981	0.9998	0.9941	0.01	0.07	0.08	Snell. 'zx'= 45
2	-1036	-133	645	2	0.8302	1.0022	1.0004	1.0000	0.9756	0.01	0.06	0.09	Snell. 'zx'= 45
3	-967	-11	-924	2	0.8302	1.0767	0.9984	0.9998	0.9941	0.01	0.08	0.09	Snell. 'zx'= 45

4	-628	-228	453	2	0.8302	1.0002	1.0004	1.0000	0.9753	0.01	0.04	0.09	Snell. 'zx'= 45
5A	-1381	38	2419	2	0.8302	1.0290	0.9991	0.9999	0.9795	0.01	0.22	0.23	Snell. 'zx'= 45
5B	-1381	38	-2529	2	0.8302	1.0290	0.9981	0.9998	0.9838	0.01	0.22	0.24	Snell. 'zx'= 45
5C	-1381	-32	2419	2	0.8302	1.0217	0.9991	0.9999	0.9795	0.01	0.22	0.23	Snell. 'zx'= 45
5D	-1381	-32	-2529	2	0.8302	1.0217	0.9981	0.9998	0.9838	0.01	0.22	0.24	Snell. 'zx'= 45
5E	221	38	2419	2	0.8302	0.0000	0.0000	0.0000	0.9795	--	0.21	--	Snell. 'zx'= 45
5F	221	38	-2529	2	0.8302	0.0000	0.0000	0.0000	0.9838	--	0.22	--	Snell. 'zx'= 45
5G	221	-32	2419	2	0.8302	0.0000	0.0000	0.0000	0.9795	--	0.21	--	Snell. 'zx'= 45
5H	221	-32	-2529	2	0.8302	0.0000	0.0000	0.0000	0.9838	--	0.22	--	Snell. 'zx'= 45
5I	-1562	77	1107	2	0.8302	1.0136	0.9997	1.0000	0.9774	0.01	0.10	0.12	Snell. 'zx'= 45
5J	-1562	77	-1217	2	0.8302	1.0136	0.9973	0.9997	0.9854	0.01	0.11	0.13	Snell. 'zx'= 45
5K	-1562	-71	1107	2	0.8302	1.0133	0.9997	1.0000	0.9774	0.01	0.10	0.12	Snell. 'zx'= 45
5L	-1562	-71	-1217	2	0.8302	1.0133	0.9973	0.9997	0.9854	0.01	0.11	0.13	Snell. 'zx'= 45
5M	402	77	1107	2	0.8302	0.0000	0.0000	0.0000	0.9774	--	0.10	--	Snell. 'zx'= 45
5N	402	77	-1217	2	0.8302	0.0000	0.0000	0.0000	0.9854	--	0.11	--	Snell. 'zx'= 45
5O	402	-71	1107	2	0.8302	0.0000	0.0000	0.0000	0.9774	--	0.10	--	Snell. 'zx'= 45
5P	402	-71	-1217	2	0.8302	0.0000	0.0000	0.0000	0.9854	--	0.11	--	Snell. 'zx'= 45
5Q	-1547	63	1109	2	0.8302	1.0175	0.9987	0.9999	0.9824	0.01	0.10	0.12	Snell. 'zx'= 45
5R	-1547	63	-1218	2	0.8302	1.0175	0.9964	0.9996	0.9839	0.01	0.11	0.13	Snell. 'zx'= 45
5S	-1547	-57	1109	2	0.8302	1.0163	0.9987	0.9999	0.9824	0.01	0.10	0.12	Snell. 'zx'= 45
5T	-1547	-57	-1218	2	0.8302	1.0163	0.9964	0.9996	0.9839	0.01	0.11	0.13	Snell. 'zx'= 45
5U	386	63	1109	2	0.8302	0.0000	0.0000	0.0000	0.9824	--	0.10	--	Snell. 'zx'= 45
5V	386	63	-1218	2	0.8302	0.0000	0.0000	0.0000	0.9839	--	0.11	--	Snell. 'zx'= 45
5W	386	-57	1109	2	0.8302	0.0000	0.0000	0.0000	0.9824	--	0.10	--	Snell. 'zx'= 45
5X	386	-57	-1218	2	0.8302	0.0000	0.0000	0.0000	0.9839	--	0.11	--	Snell. 'zx'= 45

ASTA NUM. 3 NI 4 NF 16 Lungh. 320.0 cm SEZ. 1 Ps HEA 200

categoria: p.p. y Vento qy tot.
qy medio: 0.00 110.00 110.00 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-3039	990	-9	0	-22	-866	2	0.04	0.02	0.08	
2	0	-3135	651	-215	0	-178	-439	2	0.02	0.02	0.04	
3	0	-2159	1007	-5	0	-12	-1007	2	0.04	0.02	0.09	
4	0	-2321	441	-350	0	-271	-296	2	0.02	0.02	0.05	
5A	0	-1966	-719	14	0	48	1911	2	0.03	0.01	0.17	
5B	0	-1966	1298	14	0	48	-2286	2	0.05	0.01	0.20	
5C	0	-1966	-719	-24	0	-72	1911	2	0.03	0.01	0.17	
5D	0	-1966	1298	-24	0	-72	-2286	2	0.05	0.01	0.20	
5E	0	-866	-719	14	0	48	1911	2	0.03	0.01	0.17	
5F	0	-866	1298	14	0	48	-2286	2	0.05	0.01	0.20	
5G	0	-866	-719	-24	0	-72	1911	2	0.03	0.01	0.17	
5H	0	-866	1298	-24	0	-72	-2286	2	0.05	0.01	0.20	
5I	0	-2157	-168	26	0	87	596	2	0.01	0.02	0.05	
5J	0	-2157	748	26	0	87	-972	2	0.03	0.02	0.08	
5K	0	-2157	-168	-36	0	-111	596	2	0.01	0.02	0.05	
5L	0	-2157	748	-36	0	-111	-972	2	0.03	0.02	0.08	
5M	0	-675	-168	26	0	87	596	2	0.01	0.00	0.05	
5N	0	-675	748	26	0	87	-972	2	0.03	0.00	0.08	
5O	0	-675	-168	-36	0	-111	596	2	0.01	0.00	0.05	
5P	0	-675	748	-36	0	-111	-972	2	0.03	0.00	0.08	
5Q	0	-2230	-274	21	0	72	679	2	0.01	0.02	0.06	
5R	0	-2230	854	21	0	72	-1054	2	0.03	0.02	0.09	
5S	0	-2230	-274	-32	0	-96	679	2	0.01	0.02	0.06	
5T	0	-2230	854	-32	0	-96	-1054	2	0.03	0.02	0.09	
5U	0	-602	-274	21	0	72	679	2	0.01	0.00	0.06	
5V	0	-602	854	21	0	72	-1054	2	0.03	0.00	0.09	
5W	0	-602	-274	-32	0	-96	679	2	0.01	0.00	0.06	
5X	0	-602	854	-32	0	-96	-1054	2	0.03	0.00	0.09	
1	160	-2951	832	-9	0	-9	592	2	0.03	0.02	0.05	
2	160	-3048	651	-57	0	40	602	2	0.02	0.02	0.05	
3	160	-2072	743	-5	0	-4	393	2	0.03	0.01	0.03	
4	160	-2233	441	-86	0	78	410	2	0.02	0.02	0.04	
5A	160	-1878	-719	14	0	26	758	2	0.03	0.01	0.07	
5B	160	-1878	1298	14	0	26	-206	2	0.05	0.01	0.02	
5C	160	-1878	-719	-24	0	-33	758	2	0.03	0.01	0.07	
5D	160	-1878	1298	-24	0	-33	-206	2	0.05	0.01	0.02	
5E	160	-779	-719	14	0	26	758	2	0.03	0.01	0.07	
5F	160	-779	1298	14	0	26	-206	2	0.05	0.01	0.02	
5G	160	-779	-719	-24	0	-33	758	2	0.03	0.01	0.07	
5H	160	-779	1298	-24	0	-33	-206	2	0.05	0.01	0.02	
5I	160	-2070	-168	26	0	45	321	2	0.01	0.01	0.03	
5J	160	-2070	748	26	0	45	231	2	0.03	0.01	0.02	
5K	160	-2070	-168	-36	0	-53	321	2	0.01	0.01	0.03	
5L	160	-2070	748	-36	0	-53	231	2	0.03	0.01	0.02	
5M	160	-587	-168	26	0	45	321	2	0.01	0.00	0.03	
5N	160	-587	748	26	0	45	231	2	0.03	0.00	0.02	
5O	160	-587	-168	-36	0	-53	321	2	0.01	0.00	0.03	
5P	160	-587	748	-36	0	-53	231	2	0.03	0.00	0.02	
5Q	160	-2142	-274	21	0	38	236	2	0.01	0.01	0.02	
5R	160	-2142	854	21	0	38	316	2	0.03	0.01	0.03	
5S	160	-2142	-274	-32	0	-45	236	2	0.01	0.01	0.02	
5T	160	-2142	854	-32	0	-45	316	2	0.03	0.01	0.03	
5U	160	-515	-274	21	0	38	236	2	0.01	0.00	0.02	

5V	160	-515	854	21	0	38	316	2	0.03	0.00	0.03
5W	160	-515	-274	-32	0	-45	236	2	0.01	0.00	0.02
5X	160	-515	854	-32	0	-45	316	2	0.03	0.00	0.03
1	320	-2863	673	-9	0	5	1796	2	0.02	0.02	0.16
2	320	-2960	651	101	0	5	1643	2	0.02	0.02	0.14
3	320	-1984	479	-5	0	5	1370	2	0.02	0.01	0.12
4	320	-2145	441	178	0	5	1115	2	0.02	0.01	0.10
5A	320	-1791	-719	14	0	4	-395	2	0.03	0.01	0.03
5B	320	-1791	1298	14	0	4	1875	2	0.05	0.01	0.16
5C	320	-1791	-719	-24	0	5	-395	2	0.03	0.01	0.03
5D	320	-1791	1298	-24	0	5	1875	2	0.05	0.01	0.16
5E	320	-691	-719	14	0	4	-395	2	0.03	0.00	0.03
5F	320	-691	1298	14	0	4	1875	2	0.05	0.00	0.16
5G	320	-691	-719	-24	0	5	-395	2	0.03	0.00	0.03
5H	320	-691	1298	-24	0	5	1875	2	0.05	0.00	0.16
5I	320	-1982	-168	26	0	4	45	2	0.01	0.01	0.00
5J	320	-1982	748	26	0	4	1434	2	0.03	0.01	0.13
5K	320	-1982	-168	-36	0	6	45	2	0.01	0.01	0.00
5L	320	-1982	748	-36	0	6	1434	2	0.03	0.01	0.13
5M	320	-500	-168	26	0	4	45	2	0.01	0.00	0.00
5N	320	-500	748	26	0	4	1434	2	0.03	0.00	0.13
5O	320	-500	-168	-36	0	6	45	2	0.01	0.00	0.00
5P	320	-500	748	-36	0	6	1434	2	0.03	0.00	0.13
5Q	320	-2055	-274	21	0	4	-207	2	0.01	0.01	0.02
5R	320	-2055	854	21	0	4	1687	2	0.03	0.01	0.15
5S	320	-2055	-274	-32	0	6	-207	2	0.01	0.01	0.02
5T	320	-2055	854	-32	0	6	1687	2	0.03	0.01	0.15
5U	320	-427	-274	21	0	4	-207	2	0.01	0.00	0.02
5V	320	-427	854	21	0	4	1687	2	0.03	0.00	0.15
5W	320	-427	-274	-32	0	6	-207	2	0.01	0.00	0.02
5X	320	-427	854	-32	0	6	1687	2	0.03	0.00	0.15

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-3039	-22	1796	2	0.8302	1.1164	0.9969	0.9997	0.9941	0.03	0.16	0.19	Snell. 'zx'= 45
2	-3135	-178	1643	2	0.8302	1.0049	0.9989	1.0000	0.9778	0.03	0.15	0.20	Snell. 'zx'= 45
3	-2159	-12	1370	2	0.8302	1.1664	0.9963	0.9996	0.9941	0.02	0.12	0.14	Snell. 'zx'= 45
4	-2321	-271	1115	2	0.8302	1.0000	0.9995	1.0000	0.9777	0.02	0.10	0.17	Snell. 'zx'= 45
5A	-1966	48	1911	2	0.8302	1.0276	0.9996	1.0000	0.9762	0.02	0.17	0.19	Snell. 'zx'= 45
5B	-1966	48	-2286	2	0.8302	1.0276	0.9959	0.9995	0.9849	0.02	0.20	0.22	Snell. 'zx'= 45
5C	-1966	-72	1911	2	0.8302	1.0189	0.9996	1.0000	0.9762	0.02	0.17	0.20	Snell. 'zx'= 45
5D	-1966	-72	-2286	2	0.8302	1.0189	0.9959	0.9995	0.9849	0.02	0.20	0.23	Snell. 'zx'= 45
5E	-866	48	1911	2	0.8302	1.0122	0.9998	1.0000	0.9762	0.01	0.17	0.18	Snell. 'zx'= 45
5F	-866	48	-2286	2	0.8302	1.0122	0.9982	0.9998	0.9849	0.01	0.20	0.22	Snell. 'zx'= 45
5G	-866	-72	1911	2	0.8302	1.0083	0.9998	1.0000	0.9762	0.01	0.17	0.19	Snell. 'zx'= 45
5H	-866	-72	-2286	2	0.8302	1.0083	0.9982	0.9998	0.9849	0.01	0.20	0.22	Snell. 'zx'= 45
5I	-2157	87	596	2	0.8302	1.0157	1.0023	1.0000	0.9679	0.02	0.05	0.09	Snell. 'zx'= 45
5J	-2157	87	1434	2	0.8302	1.0157	0.9967	0.9996	0.9848	0.02	0.13	0.16	Snell. 'zx'= 45
5K	-2157	-111	596	2	0.8302	1.0115	1.0023	1.0000	0.9679	0.02	0.05	0.09	Snell. 'zx'= 45
5L	-2157	-111	1434	2	0.8302	1.0115	0.9967	0.9996	0.9848	0.02	0.13	0.16	Snell. 'zx'= 45
5M	-675	87	596	2	0.8302	1.0049	1.0007	1.0000	0.9679	0.01	0.05	0.07	Snell. 'zx'= 45
5N	-675	87	1434	2	0.8302	1.0049	0.9990	0.9999	0.9848	0.01	0.13	0.15	Snell. 'zx'= 45
5O	-675	-111	596	2	0.8302	1.0036	1.0007	1.0000	0.9679	0.01	0.05	0.08	Snell. 'zx'= 45
5P	-675	-111	1434	2	0.8302	1.0036	0.9990	0.9999	0.9848	0.01	0.13	0.15	Snell. 'zx'= 45
5Q	-2230	72	679	2	0.8302	1.0204	0.9999	1.0000	0.9787	0.02	0.06	0.09	Snell. 'zx'= 45
5R	-2230	72	1687	2	0.8302	1.0204	0.9968	0.9996	0.9843	0.02	0.15	0.18	Snell. 'zx'= 45
5S	-2230	-96	679	2	0.8302	1.0146	0.9999	1.0000	0.9787	0.02	0.06	0.10	Snell. 'zx'= 45
5T	-2230	-96	1687	2	0.8302	1.0146	0.9968	0.9996	0.9843	0.02	0.15	0.18	Snell. 'zx'= 45
5U	-602	72	679	2	0.8302	1.0055	1.0000	1.0000	0.9787	0.01	0.06	0.08	Snell. 'zx'= 45
5V	-602	72	1687	2	0.8302	1.0055	0.9991	0.9999	0.9843	0.01	0.15	0.17	Snell. 'zx'= 45
5W	-602	-96	679	2	0.8302	1.0040	1.0000	1.0000	0.9787	0.01	0.06	0.08	Snell. 'zx'= 45
5X	-602	-96	1687	2	0.8302	1.0040	0.9991	0.9999	0.9843	0.01	0.15	0.17	Snell. 'zx'= 45

ASTA NUM. 4 NI 6 NF 18 Lungh. 320.0 cm SEZ. 1 Ps HEA 200

categoria: p.p. y Vento qy tot.
qy medio: 0.00 110.00 110.00 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-1210	559	-13	0	-32	-522	2	0.02	0.01	0.05	
2	0	-1167	198	-225	0	-203	-20	2	0.01	0.01	0.04	
3	0	-947	747	-6	0	-13	-856	2	0.03	0.01	0.07	
4	0	-874	144	-359	0	-296	-20	2	0.01	0.01	0.05	
5A	0	-1064	-1003	30	0	99	2440	2	0.04	0.01	0.21	
5B	0	-1064	1203	30	0	99	-2470	2	0.04	0.01	0.22	
5C	0	-1064	-1003	-42	0	-130	2440	2	0.04	0.01	0.21	

5D	0	-1064	1203	-42	0	-130	-2470	2	0.04	0.01	0.22
5E	0	-244	-1003	30	0	99	2440	2	0.04	0.00	0.21
5F	0	-244	1203	30	0	99	-2470	2	0.04	0.00	0.22
5G	0	-244	-1003	-42	0	-130	2440	2	0.04	0.00	0.21
5H	0	-244	1203	-42	0	-130	-2470	2	0.04	0.00	0.22
5I	0	-931	-434	52	0	170	1144	2	0.02	0.01	0.10
5J	0	-931	634	52	0	170	-1174	2	0.02	0.01	0.10
5K	0	-931	-434	-65	0	-201	1144	2	0.02	0.01	0.10
5L	0	-931	634	-65	0	-201	-1174	2	0.02	0.01	0.10
5M	0	-377	-434	52	0	170	1144	2	0.02	0.00	0.10
5N	0	-377	634	52	0	170	-1174	2	0.02	0.00	0.10
5O	0	-377	-434	-65	0	-201	1144	2	0.02	0.00	0.10
5P	0	-377	634	-65	0	-201	-1174	2	0.02	0.00	0.10
5Q	0	-1044	-446	45	0	147	1105	2	0.02	0.01	0.10
5R	0	-1044	646	45	0	147	-1135	2	0.02	0.01	0.10
5S	0	-1044	-446	-58	0	-178	1105	2	0.02	0.01	0.10
5T	0	-1044	646	-58	0	-178	-1135	2	0.02	0.01	0.10
5U	0	-264	-446	45	0	147	1105	2	0.02	0.00	0.10
5V	0	-264	646	45	0	147	-1135	2	0.02	0.00	0.10
5W	0	-264	-446	-58	0	-178	1105	2	0.02	0.00	0.10
5X	0	-264	646	-58	0	-178	-1135	2	0.02	0.00	0.10
1	160	-1122	401	-13	0	-12	245	2	0.01	0.01	0.02
2	160	-1079	198	-66	0	30	296	2	0.01	0.01	0.03
3	160	-859	483	-6	0	-3	127	2	0.02	0.01	0.01
4	160	-787	144	-95	0	66	211	2	0.01	0.01	0.02
5A	160	-976	-1003	30	0	51	823	2	0.04	0.01	0.07
5B	160	-976	1203	30	0	51	-533	2	0.04	0.01	0.05
5C	160	-976	-1003	-42	0	-62	823	2	0.04	0.01	0.07
5D	160	-976	1203	-42	0	-62	-533	2	0.04	0.01	0.05
5E	160	-156	-1003	30	0	51	823	2	0.04	0.00	0.07
5F	160	-156	1203	30	0	51	-533	2	0.04	0.00	0.05
5G	160	-156	-1003	-42	0	-62	823	2	0.04	0.00	0.07
5H	160	-156	1203	-42	0	-62	-533	2	0.04	0.00	0.05
5I	160	-843	-434	52	0	87	432	2	0.02	0.01	0.04
5J	160	-843	634	52	0	87	-142	2	0.02	0.01	0.02
5K	160	-843	-434	-65	0	-97	432	2	0.02	0.01	0.04
5L	160	-843	634	-65	0	-97	-142	2	0.02	0.01	0.02
5M	160	-289	-434	52	0	87	432	2	0.02	0.00	0.04
5N	160	-289	634	52	0	87	-142	2	0.02	0.00	0.02
5O	160	-289	-434	-65	0	-97	432	2	0.02	0.00	0.04
5P	160	-289	634	-65	0	-97	-142	2	0.02	0.00	0.02
5Q	160	-956	-446	45	0	75	357	2	0.02	0.01	0.03
5R	160	-956	646	45	0	75	-67	2	0.02	0.01	0.01
5S	160	-956	-446	-58	0	-86	357	2	0.02	0.01	0.03
5T	160	-956	646	-58	0	-86	-67	2	0.02	0.01	0.02
5U	160	-176	-446	45	0	75	357	2	0.02	0.00	0.03
5V	160	-176	646	45	0	75	-67	2	0.02	0.00	0.01
5W	160	-176	-446	-58	0	-86	357	2	0.02	0.00	0.03
5X	160	-176	646	-58	0	-86	-67	2	0.02	0.00	0.02
1	320	-1034	242	-13	0	9	760	2	0.01	0.01	0.07
2	320	-991	198	92	0	9	612	2	0.01	0.01	0.05
3	320	-771	219	-6	0	7	688	2	0.01	0.01	0.06
4	320	-699	144	169	0	7	442	2	0.01	0.00	0.04
5A	320	-889	-1003	30	0	4	-794	2	0.04	0.01	0.07
5B	320	-889	1203	30	0	4	1404	2	0.04	0.01	0.12
5C	320	-889	-1003	-42	0	6	-794	2	0.04	0.01	0.07
5D	320	-889	1203	-42	0	6	1404	2	0.04	0.01	0.12
5E	320	-68	-1003	30	0	4	-794	2	0.04	0.00	0.07
5F	320	-68	1203	30	0	4	1404	2	0.04	0.00	0.12
5G	320	-68	-1003	-42	0	6	-794	2	0.04	0.00	0.07
5H	320	-68	1203	-42	0	6	1404	2	0.04	0.00	0.12
5I	320	-755	-434	52	0	3	-279	2	0.02	0.01	0.02
5J	320	-755	634	52	0	3	890	2	0.02	0.01	0.08
5K	320	-755	-434	-65	0	7	-279	2	0.02	0.01	0.02
5L	320	-755	634	-65	0	7	890	2	0.02	0.01	0.08
5M	320	-201	-434	52	0	3	-279	2	0.02	0.00	0.02
5N	320	-201	634	52	0	3	890	2	0.02	0.00	0.08
5O	320	-201	-434	-65	0	7	-279	2	0.02	0.00	0.02
5P	320	-201	634	-65	0	7	890	2	0.02	0.00	0.08
5Q	320	-868	-446	45	0	3	-391	2	0.02	0.01	0.03
5R	320	-868	646	45	0	3	1001	2	0.02	0.01	0.09
5S	320	-868	-446	-58	0	7	-391	2	0.02	0.01	0.03
5T	320	-868	646	-58	0	7	1001	2	0.02	0.01	0.09
5U	320	-88	-446	45	0	3	-391	2	0.02	0.00	0.03
5V	320	-88	646	45	0	3	1001	2	0.02	0.00	0.09
5W	320	-88	-446	-58	0	7	-391	2	0.02	0.00	0.03
5X	320	-88	646	-58	0	7	1001	2	0.02	0.00	0.09

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											

1	-1210	-32	760	2	0.8302	1.0309	0.9985	0.9998	0.9941	0.01	0.07	0.08	Snell. 'zx'= 45
2	-1167	-203	612	2	0.8302	1.0015	1.0009	1.0000	0.9712	0.01	0.05	0.10	Snell. 'zx'= 45
3	-947	-13	-856	2	0.8302	1.0704	0.9984	0.9998	0.9941	0.01	0.08	0.08	Snell. 'zx'= 45
4	-874	-296	442	2	0.8302	0.9999	1.0009	1.0000	0.9715	0.01	0.04	0.10	Snell. 'zx'= 45
5A	-1064	99	2440	2	0.8302	1.0066	0.9993	1.0000	0.9792	0.01	0.22	0.24	Snell. 'zx'= 45
5B	-1064	99	-2470	2	0.8302	1.0066	0.9985	0.9998	0.9837	0.01	0.22	0.24	Snell. 'zx'= 45
5C	-1064	-130	2440	2	0.8302	1.0044	0.9993	1.0000	0.9792	0.01	0.22	0.25	Snell. 'zx'= 45
5D	-1064	-130	-2470	2	0.8302	1.0044	0.9985	0.9998	0.9837	0.01	0.22	0.25	Snell. 'zx'= 45
5E	-244	99	2440	2	0.8302	1.0015	0.9998	1.0000	0.9792	0.00	0.22	0.23	Snell. 'zx'= 45
5F	-244	99	-2470	2	0.8302	1.0015	0.9997	1.0000	0.9837	0.00	0.22	0.24	Snell. 'zx'= 45
5G	-244	-130	2440	2	0.8302	1.0010	0.9998	1.0000	0.9792	0.00	0.22	0.24	Snell. 'zx'= 45
5H	-244	-130	-2470	2	0.8302	1.0010	0.9997	1.0000	0.9837	0.00	0.22	0.24	Snell. 'zx'= 45
5I	-931	170	1144	2	0.8302	1.0025	0.9999	1.0000	0.9772	0.01	0.10	0.14	Snell. 'zx'= 45
5J	-931	170	-1174	2	0.8302	1.0025	0.9984	0.9998	0.9854	0.01	0.10	0.14	Snell. 'zx'= 45
5K	-931	-201	1144	2	0.8302	1.0016	0.9999	1.0000	0.9772	0.01	0.10	0.14	Snell. 'zx'= 45
5L	-931	-201	-1174	2	0.8302	1.0016	0.9984	0.9998	0.9854	0.01	0.10	0.15	Snell. 'zx'= 45
5M	-377	170	1144	2	0.8302	1.0010	0.9999	1.0000	0.9772	0.00	0.10	0.13	Snell. 'zx'= 45
5N	-377	170	-1174	2	0.8302	1.0010	0.9994	0.9999	0.9854	0.00	0.10	0.14	Snell. 'zx'= 45
5O	-377	-201	1144	2	0.8302	1.0007	0.9999	1.0000	0.9772	0.00	0.10	0.14	Snell. 'zx'= 45
5P	-377	-201	-1174	2	0.8302	1.0007	0.9994	0.9999	0.9854	0.00	0.10	0.14	Snell. 'zx'= 45
5Q	-1044	147	1105	2	0.8302	1.0036	0.9995	1.0000	0.9799	0.01	0.10	0.13	Snell. 'zx'= 45
5R	-1044	147	-1135	2	0.8302	1.0036	0.9979	0.9997	0.9845	0.01	0.10	0.13	Snell. 'zx'= 45
5S	-1044	-178	1105	2	0.8302	1.0024	0.9995	1.0000	0.9799	0.01	0.10	0.14	Snell. 'zx'= 45
5T	-1044	-178	-1135	2	0.8302	1.0024	0.9979	0.9997	0.9845	0.01	0.10	0.14	Snell. 'zx'= 45
5U	-264	147	1105	2	0.8302	1.0009	0.9999	1.0000	0.9799	0.00	0.10	0.13	Snell. 'zx'= 45
5V	-264	147	-1135	2	0.8302	1.0009	0.9995	0.9999	0.9845	0.00	0.10	0.13	Snell. 'zx'= 45
5W	-264	-178	1105	2	0.8302	1.0006	0.9999	1.0000	0.9799	0.00	0.10	0.13	Snell. 'zx'= 45
5X	-264	-178	-1135	2	0.8302	1.0006	0.9995	0.9999	0.9845	0.00	0.10	0.13	Snell. 'zx'= 45

ASTA NUM. 5 NI 3 NF 30 Lungh. 380.0 cm SEZ. 1 Ps HEA 200

categoria: p.p. y Vento qy tot.
qy medio: 0.00 110.00 110.00 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-2859	-279	7	0	23	234	2	0.01	0.02	0.02	
2	0	-2707	-604	-236	0	-186	625	2	0.02	0.02	0.05	
3	0	-1958	131	6	0	19	-234	2	0.00	0.01	0.02	
4	0	-1704	-411	-399	0	-329	418	2	0.01	0.01	0.06	
5A	0	-2296	-1080	24	0	84	2053	2	0.04	0.02	0.18	
5B	0	-2296	542	24	0	84	-1501	2	0.02	0.02	0.13	
5C	0	-2296	-1080	-16	0	-65	2053	2	0.04	0.02	0.18	
5D	0	-2296	542	-16	0	-65	-1501	2	0.02	0.02	0.13	
5E	0	-500	-1080	24	0	84	2053	2	0.04	0.00	0.18	
5F	0	-500	542	24	0	84	-1501	2	0.02	0.00	0.13	
5G	0	-500	-1080	-16	0	-65	2053	2	0.04	0.00	0.18	
5H	0	-500	542	-16	0	-65	-1501	2	0.02	0.00	0.13	
5I	0	-2983	-638	51	0	186	971	2	0.02	0.02	0.08	
5J	0	-2983	99	51	0	186	-419	2	0.00	0.02	0.04	
5K	0	-2983	-638	-43	0	-167	971	2	0.02	0.02	0.08	
5L	0	-2983	99	-43	0	-167	-419	2	0.00	0.02	0.04	
5M	0	187	-638	51	0	186	971	2	0.02	0.00	0.08	
5N	0	187	99	51	0	186	-419	2	0.00	0.00	0.04	
5O	0	187	-638	-43	0	-167	971	2	0.02	0.00	0.08	
5P	0	187	99	-43	0	-167	-419	2	0.00	0.00	0.04	
5Q	0	-2361	-721	27	0	94	1039	2	0.03	0.02	0.09	
5R	0	-2361	182	27	0	94	-488	2	0.01	0.02	0.04	
5S	0	-2361	-721	-19	0	-75	1039	2	0.03	0.02	0.09	
5T	0	-2361	182	-19	0	-75	-488	2	0.01	0.02	0.04	
5U	0	-435	-721	27	0	94	1039	2	0.03	0.00	0.09	
5V	0	-435	182	27	0	94	-488	2	0.01	0.00	0.04	
5W	0	-435	-721	-19	0	-75	1039	2	0.03	0.00	0.09	
5X	0	-435	182	-19	0	-75	-488	2	0.01	0.00	0.04	
1	190	-2755	-467	7	0	9	-474	2	0.02	0.02	0.04	
2	190	-2603	-604	-47	0	83	-523	2	0.02	0.02	0.05	
3	190	-1854	-182	6	0	7	-283	2	0.01	0.01	0.02	
4	190	-1600	-411	-85	0	130	-363	2	0.01	0.01	0.03	
5A	190	-2192	-1080	24	0	39	-3	2	0.04	0.02	0.01	
5B	190	-2192	542	24	0	39	-469	2	0.02	0.02	0.04	
5C	190	-2192	-1080	-16	0	-35	-3	2	0.04	0.02	0.01	
5D	190	-2192	542	-16	0	-35	-469	2	0.02	0.02	0.04	
5E	190	-395	-1080	24	0	39	-3	2	0.04	0.00	0.01	
5F	190	-395	542	24	0	39	-469	2	0.02	0.00	0.04	
5G	190	-395	-1080	-16	0	-35	-3	2	0.04	0.00	0.01	
5H	190	-395	542	-16	0	-35	-469	2	0.02	0.00	0.04	
5I	190	-2878	-638	51	0	89	-248	2	0.02	0.02	0.02	
5J	190	-2878	99	51	0	89	-224	2	0.00	0.02	0.02	
5K	190	-2878	-638	-43	0	-85	-248	2	0.02	0.02	0.02	
5L	190	-2878	99	-43	0	-85	-224	2	0.00	0.02	0.02	
5M	190	291	-638	51	0	89	-248	2	0.02	0.00	0.02	
5N	190	291	99	51	0	89	-224	2	0.00	0.00	0.02	
5O	190	291	-638	-43	0	-85	-248	2	0.02	0.00	0.02	
5P	190	291	99	-43	0	-85	-224	2	0.00	0.00	0.02	
5Q	190	-2257	-721	27	0	44	-336	2	0.03	0.02	0.03	
5R	190	-2257	182	27	0	44	-136	2	0.01	0.02	0.01	

5S	190	-2257	-721	-19	0	-40	-336	2	0.03	0.02	0.03
5T	190	-2257	182	-19	0	-40	-136	2	0.01	0.02	0.01
5U	190	-330	-721	27	0	44	-336	2	0.03	0.00	0.03
5V	190	-330	182	27	0	44	-136	2	0.01	0.00	0.01
5W	190	-330	-721	-19	0	-40	-336	2	0.03	0.00	0.03
5X	190	-330	182	-19	0	-40	-136	2	0.01	0.00	0.01
1	380	-2651	-655	7	0	-5	-1540	2	0.02	0.02	0.13
2	380	-2498	-604	141	0	-6	-1671	2	0.02	0.02	0.15
3	380	-1749	-496	6	0	-5	-927	2	0.02	0.01	0.08
4	380	-1495	-411	229	0	-6	-1144	2	0.01	0.01	0.10
5A	380	-2087	-1080	24	0	-6	-2058	2	0.04	0.01	0.18
5B	380	-2087	542	24	0	-6	564	2	0.02	0.01	0.05
5C	380	-2087	-1080	-16	0	-4	-2058	2	0.04	0.01	0.18
5D	380	-2087	542	-16	0	-4	564	2	0.02	0.01	0.05
5E	380	-291	-1080	24	0	-6	-2058	2	0.04	0.00	0.18
5F	380	-291	542	24	0	-6	564	2	0.02	0.00	0.05
5G	380	-291	-1080	-16	0	-4	-2058	2	0.04	0.00	0.18
5H	380	-291	542	-16	0	-4	564	2	0.02	0.00	0.05
5I	380	-2774	-638	51	0	-8	-1467	2	0.02	0.02	0.13
5J	380	-2774	99	51	0	-8	-28	2	0.00	0.02	0.00
5K	380	-2774	-638	-43	0	-3	-1467	2	0.02	0.02	0.13
5L	380	-2774	99	-43	0	-3	-28	2	0.00	0.02	0.00
5M	380	396	-638	51	0	-8	-1467	2	0.02	0.00	0.13
5N	380	396	99	51	0	-8	-28	2	0.00	0.00	0.00
5O	380	396	-638	-43	0	-3	-1467	2	0.02	0.00	0.13
5P	380	396	99	-43	0	-3	-28	2	0.00	0.00	0.00
5Q	380	-2152	-721	27	0	-6	-1711	2	0.03	0.01	0.15
5R	380	-2152	182	27	0	-6	216	2	0.01	0.01	0.02
5S	380	-2152	-721	-19	0	-4	-1711	2	0.03	0.01	0.15
5T	380	-2152	182	-19	0	-4	216	2	0.01	0.01	0.02
5U	380	-226	-721	27	0	-6	-1711	2	0.03	0.00	0.15
5V	380	-226	182	27	0	-6	216	2	0.01	0.00	0.02
5W	380	-226	-721	-19	0	-4	-1711	2	0.03	0.00	0.15
5X	380	-226	182	-19	0	-4	216	2	0.01	0.00	0.02

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											
1	-2859	23	-1540	2	0.7730	1.2019	1.0008	0.9996	0.9849	0.03	0.14	0.17	Snell. 'zx'= 53
2	-2707	-186	-1671	2	0.7730	1.0096	0.9985	0.9992	0.9697	0.02	0.15	0.20	Snell. 'zx'= 53
3	-1958	19	-927	2	0.7730	1.1730	1.0035	1.0000	0.9849	0.02	0.08	0.10	Snell. 'zx'= 53
4	-1704	-329	-1144	2	0.7730	1.0020	0.9995	0.9996	0.9695	0.02	0.10	0.18	Snell. 'zx'= 53
5A	-2296	84	-2058	2	0.7730	1.0378	0.9933	0.9985	0.9736	0.02	0.18	0.22	Snell. 'zx'= 53
5B	-2296	84	-1501	2	0.7730	1.0378	0.9989	0.9994	0.9698	0.02	0.14	0.17	Snell. 'zx'= 53
5C	-2296	-65	-2058	2	0.7730	1.0467	0.9933	0.9985	0.9736	0.02	0.18	0.21	Snell. 'zx'= 53
5D	-2296	-65	-1501	2	0.7730	1.0467	0.9989	0.9994	0.9698	0.02	0.14	0.16	Snell. 'zx'= 53
5E	-500	84	-2058	2	0.7730	1.0082	0.9985	0.9997	0.9736	0.00	0.18	0.20	Snell. 'zx'= 53
5F	-500	84	-1501	2	0.7730	1.0082	0.9998	0.9999	0.9698	0.00	0.14	0.15	Snell. 'zx'= 53
5G	-500	-65	-2058	2	0.7730	1.0102	0.9985	0.9997	0.9736	0.00	0.18	0.20	Snell. 'zx'= 53
5H	-500	-65	-1501	2	0.7730	1.0102	0.9998	0.9999	0.9698	0.00	0.14	0.15	Snell. 'zx'= 53
5I	-2983	186	-1467	2	0.7730	1.0179	0.9955	0.9987	0.9749	0.03	0.13	0.19	Snell. 'zx'= 53
5J	-2983	186	-419	2	0.7730	1.0179	1.0068	1.0000	0.9549	0.03	0.04	0.10	Snell. 'zx'= 53
5K	-2983	-167	-1467	2	0.7730	1.0211	0.9955	0.9987	0.9749	0.03	0.13	0.19	Snell. 'zx'= 53
5L	-2983	-167	-419	2	0.7730	1.0211	1.0068	1.0000	0.9549	0.03	0.04	0.09	Snell. 'zx'= 53
5M	396	186	-1467	2	0.7730	0.0000	0.0000	0.0000	0.9749	--	0.13	--	Snell. 'zx'= 53
5N	396	186	-419	2	0.7730	0.0000	0.0000	0.0000	0.9549	--	0.04	--	Snell. 'zx'= 53
5O	396	-167	-1467	2	0.7730	0.0000	0.0000	0.0000	0.9749	--	0.13	--	Snell. 'zx'= 53
5P	396	-167	-419	2	0.7730	0.0000	0.0000	0.0000	0.9549	--	0.04	--	Snell. 'zx'= 53
5Q	-2361	94	-1711	2	0.7730	1.0340	0.9967	0.9990	0.9743	0.02	0.15	0.19	Snell. 'zx'= 53
5R	-2361	94	-488	2	0.7730	1.0340	1.0012	0.9997	0.9716	0.02	0.04	0.08	Snell. 'zx'= 53
5S	-2361	-75	-1711	2	0.7730	1.0415	0.9967	0.9990	0.9743	0.02	0.15	0.18	Snell. 'zx'= 53
5T	-2361	-75	-488	2	0.7730	1.0415	1.0012	0.9997	0.9716	0.02	0.04	0.08	Snell. 'zx'= 53
5U	-435	94	-1711	2	0.7730	1.0063	0.9994	0.9998	0.9743	0.00	0.15	0.17	Snell. 'zx'= 53
5V	-435	94	-488	2	0.7730	1.0063	1.0002	0.9999	0.9716	0.00	0.04	0.06	Snell. 'zx'= 53
5W	-435	-75	-1711	2	0.7730	1.0076	0.9994	0.9998	0.9743	0.00	0.15	0.17	Snell. 'zx'= 53
5X	-435	-75	-488	2	0.7730	1.0076	1.0002	0.9999	0.9716	0.00	0.04	0.06	Snell. 'zx'= 53

ASTA NUM. 6 NI 5 NF 31 Lungh. 380.0 cm SEZ. 1 Ps HEA 200

categoria: p.p. y Vento qy tot.
qy medio: 0.00 110.00 110.00 kg/m

Sollecitazioni di calcolo e di verifica — Indici <= 1 : VERIFICATO

NC	x	Fx	Fy	Fz	Mx	My	Mz	Classe	I.V.T.	I.R.n.	I.R.	Nota
	cm	kg			kg*m							
1	0	-1140	86	-5	0	-5	-176	2	0.00	0.01	0.02	
2	0	-1386	-250	-242	0	-195	260	2	0.01	0.01	0.04	
3	0	-820	391	-4	0	-5	-568	2	0.01	0.01	0.05	
4	0	-1231	-168	-400	0	-320	159	2	0.01	0.01	0.06	

5A	0	-1358	-951	4	0	24	2131	2	0.03	0.01	0.19
5B	0	-1358	701	4	0	24	-1866	2	0.03	0.01	0.16
5C	0	-1358	-951	-9	0	-28	2131	2	0.03	0.01	0.19
5D	0	-1358	701	-9	0	-28	-1866	2	0.03	0.01	0.16
5E	0	-2	-951	4	0	24	2131	2	0.03	0.00	0.19
5F	0	-2	701	4	0	24	-1866	2	0.03	0.00	0.16
5G	0	-2	-951	-9	0	-28	2131	2	0.03	0.00	0.19
5H	0	-2	701	-9	0	-28	-1866	2	0.03	0.00	0.16
5I	0	-1709	-540	15	0	65	1132	2	0.02	0.01	0.10
5J	0	-1709	289	15	0	65	-867	2	0.01	0.01	0.08
5K	0	-1709	-540	-20	0	-69	1132	2	0.02	0.01	0.10
5L	0	-1709	289	-20	0	-69	-867	2	0.01	0.01	0.08
5M	0	349	-540	15	0	65	1132	2	0.02	0.00	0.10
5N	0	349	289	15	0	65	-867	2	0.01	0.00	0.08
5O	0	349	-540	-20	0	-69	1132	2	0.02	0.00	0.10
5P	0	349	289	-20	0	-69	-867	2	0.01	0.00	0.08
5Q	0	-1325	-553	6	0	31	1092	2	0.02	0.01	0.10
5R	0	-1325	302	6	0	31	-827	2	0.01	0.01	0.07
5S	0	-1325	-553	-11	0	-35	1092	2	0.02	0.01	0.10
5T	0	-1325	302	-11	0	-35	-827	2	0.01	0.01	0.07
5U	0	-34	-553	6	0	31	1092	2	0.02	0.00	0.10
5V	0	-34	302	6	0	31	-827	2	0.01	0.00	0.07
5W	0	-34	-553	-11	0	-35	1092	2	0.02	0.00	0.10
5X	0	-34	302	-11	0	-35	-827	2	0.01	0.00	0.07
1	190	-1035	-102	-5	0	3	-192	2	0.00	0.01	0.02
2	190	-1282	-250	-54	0	87	-215	2	0.01	0.01	0.02
3	190	-716	78	-4	0	2	-122	2	0.00	0.00	0.01
4	190	-1127	-168	-87	0	142	-161	2	0.01	0.01	0.03
5A	190	-1253	-951	4	0	16	315	2	0.03	0.01	0.03
5B	190	-1253	701	4	0	16	-527	2	0.03	0.01	0.05
5C	190	-1253	-951	-9	0	-10	315	2	0.03	0.01	0.03
5D	190	-1253	701	-9	0	-10	-527	2	0.03	0.01	0.05
5E	190	102	-951	4	0	16	315	2	0.03	0.00	0.03
5F	190	102	701	4	0	16	-527	2	0.03	0.00	0.05
5G	190	102	-951	-9	0	-10	315	2	0.03	0.00	0.03
5H	190	102	701	-9	0	-10	-527	2	0.03	0.00	0.05
5I	190	-1605	-540	15	0	36	93	2	0.02	0.01	0.01
5J	190	-1605	289	15	0	36	-305	2	0.01	0.01	0.03
5K	190	-1605	-540	-20	0	-30	93	2	0.02	0.01	0.01
5L	190	-1605	289	-20	0	-30	-305	2	0.01	0.01	0.03
5M	190	454	-540	15	0	36	93	2	0.02	0.00	0.01
5N	190	454	289	15	0	36	-305	2	0.01	0.00	0.03
5O	190	454	-540	-20	0	-30	93	2	0.02	0.00	0.01
5P	190	454	289	-20	0	-30	-305	2	0.01	0.00	0.03
5Q	190	-1221	-553	6	0	19	17	2	0.02	0.01	0.00
5R	190	-1221	302	6	0	19	-229	2	0.01	0.01	0.02
5S	190	-1221	-553	-11	0	-13	17	2	0.02	0.01	0.00
5T	190	-1221	302	-11	0	-13	-229	2	0.01	0.01	0.02
5U	190	70	-553	6	0	19	17	2	0.02	0.00	0.00
5V	190	70	302	6	0	19	-229	2	0.01	0.00	0.02
5W	190	70	-553	-11	0	-13	17	2	0.02	0.00	0.00
5X	190	70	302	-11	0	-13	-229	2	0.01	0.00	0.02
1	380	-931	-290	-5	0	12	-565	2	0.01	0.01	0.05
2	380	-1177	-250	134	0	11	-690	2	0.01	0.01	0.06
3	380	-612	-236	-4	0	10	-273	2	0.01	0.00	0.02
4	380	-1022	-168	227	0	9	-481	2	0.01	0.01	0.04
5A	380	-1149	-951	4	0	8	-1501	2	0.03	0.01	0.13
5B	380	-1149	701	4	0	8	813	2	0.03	0.01	0.07
5C	380	-1149	-951	-9	0	8	-1501	2	0.03	0.01	0.13
5D	380	-1149	701	-9	0	8	813	2	0.03	0.01	0.07
5E	380	206	-951	4	0	8	-1501	2	0.03	0.00	0.13
5F	380	206	701	4	0	8	813	2	0.03	0.00	0.07
5G	380	206	-951	-9	0	8	-1501	2	0.03	0.00	0.13
5H	380	206	701	-9	0	8	813	2	0.03	0.00	0.07
5I	380	-1501	-540	15	0	7	-946	2	0.02	0.01	0.08
5J	380	-1501	289	15	0	7	258	2	0.01	0.01	0.02
5K	380	-1501	-540	-20	0	9	-946	2	0.02	0.01	0.08
5L	380	-1501	289	-20	0	9	258	2	0.01	0.01	0.02
5M	380	558	-540	15	0	7	-946	2	0.02	0.00	0.08
5N	380	558	289	15	0	7	258	2	0.01	0.00	0.02
5O	380	558	-540	-20	0	9	-946	2	0.02	0.00	0.08
5P	380	558	289	-20	0	9	258	2	0.01	0.00	0.02
5Q	380	-1117	-553	6	0	7	-1057	2	0.02	0.01	0.09
5R	380	-1117	302	6	0	7	369	2	0.01	0.01	0.03
5S	380	-1117	-553	-11	0	8	-1057	2	0.02	0.01	0.09
5T	380	-1117	302	-11	0	8	369	2	0.01	0.01	0.03
5U	380	174	-553	6	0	7	-1057	2	0.02	0.00	0.09
5V	380	174	302	6	0	7	369	2	0.01	0.00	0.03
5W	380	174	-553	-11	0	8	-1057	2	0.02	0.00	0.09
5X	380	174	302	-11	0	8	369	2	0.01	0.00	0.03

Verifica di STABILITA' e/o STABILITA' FLESSO TORSIONALE

NC	Fx	My	Mz	Classe	χmin.	ky	kz	kLT	χLT	I.S.n.	I.S.m.	I.S.	Nota
	kg	kg*m											

1	-1140	12	-565	2	0.7730	1.1630	1.0026	1.0000	0.9849	0.01	0.05	0.06	Snell. 'zx'= 53
2	-1386	-195	-690	2	0.7730	1.0046	1.0003	0.9998	0.9698	0.01	0.06	0.11	Snell. 'zx'= 53
3	-820	10	-568	2	0.7730	1.1476	1.0021	1.0000	0.9849	0.01	0.05	0.06	Snell. 'zx'= 53
4	-1231	-320	-481	2	0.7730	1.0013	1.0011	0.9999	0.9685	0.01	0.04	0.11	Snell. 'zx'= 53
5A	-1358	24	2131	2	0.7730	1.0500	0.9975	0.9993	0.9754	0.01	0.19	0.20	Snell. 'zx'= 53
5B	-1358	24	-1866	2	0.7730	1.0500	0.9989	0.9996	0.9714	0.01	0.17	0.18	Snell. 'zx'= 53
5C	-1358	-28	2131	2	0.7730	1.0782	0.9975	0.9993	0.9754	0.01	0.19	0.20	Snell. 'zx'= 53
5D	-1358	-28	-1866	2	0.7730	1.0782	0.9989	0.9996	0.9714	0.01	0.17	0.18	Snell. 'zx'= 53
5E	-2	24	2131	2	0.7730	1.0001	1.0000	1.0000	0.9754	0.00	0.19	0.19	Snell. 'zx'= 53
5F	-2	24	-1866	2	0.7730	1.0001	1.0000	1.0000	0.9714	0.00	0.17	0.17	Snell. 'zx'= 53
5G	-2	-28	2131	2	0.7730	1.0001	1.0000	1.0000	0.9754	0.00	0.19	0.19	Snell. 'zx'= 53
5H	-2	-28	-1866	2	0.7730	1.0001	1.0000	1.0000	0.9714	0.00	0.17	0.17	Snell. 'zx'= 53
5I	-1709	65	1132	2	0.7730	1.0329	0.9967	0.9992	0.9751	0.02	0.10	0.13	Snell. 'zx'= 53
5J	-1709	65	-867	2	0.7730	1.0329	1.0004	0.9997	0.9675	0.02	0.08	0.10	Snell. 'zx'= 53
5K	-1709	-69	1132	2	0.7730	1.0356	0.9967	0.9992	0.9751	0.02	0.10	0.13	Snell. 'zx'= 53
5L	-1709	-69	-867	2	0.7730	1.0356	1.0004	0.9997	0.9675	0.02	0.08	0.10	Snell. 'zx'= 53
5M	558	65	1132	2	0.7730	0.0000	0.0000	0.0000	0.9751	--	0.10	--	Snell. 'zx'= 53
5N	558	65	-867	2	0.7730	0.0000	0.0000	0.0000	0.9675	--	0.08	--	Snell. 'zx'= 53
5O	558	-69	1132	2	0.7730	0.0000	0.0000	0.0000	0.9751	--	0.10	--	Snell. 'zx'= 53
5P	558	-69	-867	2	0.7730	0.0000	0.0000	0.0000	0.9675	--	0.08	--	Snell. 'zx'= 53
5Q	-1325	31	1092	2	0.7730	1.0444	0.9968	0.9993	0.9739	0.01	0.10	0.11	Snell. 'zx'= 53
5R	-1325	31	-827	2	0.7730	1.0444	0.9997	0.9997	0.9716	0.01	0.07	0.09	Snell. 'zx'= 53
5S	-1325	-35	1092	2	0.7730	1.0593	0.9968	0.9993	0.9739	0.01	0.10	0.11	Snell. 'zx'= 53
5T	-1325	-35	-827	2	0.7730	1.0593	0.9997	0.9997	0.9716	0.01	0.07	0.09	Snell. 'zx'= 53
5U	-34	31	1092	2	0.7730	1.0012	0.9999	1.0000	0.9739	0.00	0.10	0.10	Snell. 'zx'= 53
5V	-34	31	-827	2	0.7730	1.0012	1.0000	1.0000	0.9716	0.00	0.07	0.08	Snell. 'zx'= 53
5W	-34	-35	1092	2	0.7730	1.0015	0.9999	1.0000	0.9739	0.00	0.10	0.10	Snell. 'zx'= 53
5X	-34	-35	-827	2	0.7730	1.0015	1.0000	1.0000	0.9716	0.00	0.07	0.08	Snell. 'zx'= 53

TABULATO DI CALCOLO E VERIFICHE
STATO LIMITE DI ESERCIZIO **SLD**

STAMPA DEI DATI DI PROGETTO

INTESTAZIONE E DATI CARATTERISTICI DELLA STRUTTURA

Nome dell'archivio di lavoro	**RIS-SLD**
Intestazione del lavoro	**STRUTTURA IN ACCIAIO**
Tipo di struttura	Nello Spazio
Tipo di analisi	Statica e Dinamica
Tipo di soluzione	Lineare
Unita' di misura delle forze	kg
Unita' di misura delle lunghezze	m
Normativa	NTC-2018

NORMATIVA

Vita nominale costruzione	50 anni
Classe d'uso costruzione	IV
Vita di riferimento	100 anni
Luogo	Reggio di Calabria - (RC)
Longitudine (ED50)	15.654
Latitudine (ED50)	38.12
Categoria del suolo	B
Fattore topografico	1

PARAMETRI SISMICI

	TR
SLO	60
SLD	101
SLV	949
SLC	1950

TR utilizzato nel progetto	101 anni

STATO LIMITE DI DANNO

Coefficiente di smorzamento	5%
Eccentricita' accidentale	0%
Numero di frequenze	30
Fattore q di struttura per sisma orizzontale	qor=1

PARAMETRI SISMICI

Angolo del sisma nel piano orizzontale	0
Sisma verticale	Presente
Combinazione dei modi	SRSS
Combinazione componenti azioni sismiche	NTC - Eurocodice 8
λ	0.3
μ	0.3

COMBINAZIONI DI CARICO

NORMATIVA: NORME TECNICHE PER LE COSTRUZIONI 2018 ITALIA

COMBINAZIONI PER LE VERIFICHE ALLO STATO LIMITE ULTIMO

Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
1	Statica 1 (neve Prevalente e vento dir. X)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	1.500
			Variabile: Vento	Condizione 3	0.900
			Variabile: Vento	Condizione 4	0.000
2	Statica 2 (neve Prevalente e vento dir. Y)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	1.500
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	0.900
3	Statica 3 (Vento dir. X Prevalente e Neve)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	0.750
			Variabile: Vento	Condizione 3	1.500
			Variabile: Vento	Condizione 4	0.000
4	Statica 4 (Vento dir. Y Prevalente e Neve)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	0.750
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	1.500
5	Sismica (Dinamica)	Azione sismica: Presente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	0.200
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	0.000

COMBINAZIONI PER LE VERIFICHE ALLO STATO LIMITE DI DANNO

Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
6	Rara	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	1.000
			Variabile: Vento	Condizione 3	0.600
			Variabile: Vento	Condizione 4	0.600
7	Frequente	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	0.200
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	0.000
8	Quasi Permanente	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	0.200
9	Sismica	Azione sismica: Presente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	0.200

SPOSTAMENTI/ROTAZIONI NODI NON BLOCCATI

COMBINAZIONE DI CARICO: 6 - DESCRIZIONE: RARA

Nodo	Trasl.X	Trasl.Y	Trasl._Z	Rotaz.X	Rotaz.Y	Rotaz.Z
1	+0.00e+000	+0.00e+000	-7.11e-004	-6.54e-005	-8.30e-005	+0.00e+000
2	+0.00e+000	+0.00e+000	-7.68e-004	-8.05e-005	+2.12e-004	+0.00e+000
3	+0.00e+000	+0.00e+000	-9.29e-004	-1.47e-005	-1.46e-004	+0.00e+000
4	+0.00e+000	+0.00e+000	-1.06e-003	-6.76e-006	+3.71e-004	+0.00e+000
5	+0.00e+000	+0.00e+000	-8.40e-004	-5.00e-006	-1.16e-004	+0.00e+000
6	+0.00e+000	+0.00e+000	-8.31e-004	+3.00e-005	+2.19e-004	+0.00e+000
7	+1.03e-003	+2.71e-004	-7.35e-004	+1.79e-004	+8.29e-004	+6.70e-005
8	+1.01e-003	+3.84e-004	-7.89e-004	-6.97e-006	-3.12e-004	+5.71e-005
9	+1.07e-003	+1.74e-004	-3.48e-004	-2.35e-003	+7.81e-004	+4.25e-004
10	+1.02e-003	+4.21e-004	-6.59e-004	-2.40e-003	-2.64e-004	+2.74e-004
11	+9.48e-004	+2.05e-004	-1.68e-003	-3.07e-003	+1.36e-003	+1.65e-004
12	+7.95e-004	+2.19e-004	-3.36e-003	-4.22e-003	+1.00e-003	+4.15e-004
13	+7.36e-004	+2.69e-004	-3.97e-003	-4.65e-003	-1.14e-004	+4.39e-004
14	+8.09e-004	+3.25e-004	-3.10e-003	-4.20e-003	-1.12e-003	+4.11e-004
15	+9.51e-004	+3.75e-004	-1.46e-003	-3.10e-003	-1.14e-003	+2.73e-004
16	+8.31e-004	+4.01e-004	-1.12e-003	-1.16e-005	-1.23e-003	+3.92e-005
17	+8.79e-004	+4.23e-004	-5.94e-004	-2.54e-006	-1.05e-003	+4.53e-005
18	+7.71e-004	+4.34e-004	-8.54e-004	-3.65e-005	-3.97e-004	+1.48e-005
19	+7.86e-004	+4.26e-004	-6.81e-004	+2.39e-003	-3.49e-004	-2.20e-004
20	+6.63e-004	+3.77e-004	-3.08e-003	-1.57e-005	-3.12e-003	+3.30e-005
21	+7.09e-004	+3.79e-004	-1.57e-003	+3.07e-003	-1.19e-003	-1.87e-004
22	+2.95e-004	+3.25e-004	-7.34e-003	-1.90e-005	-2.75e-003	+4.34e-005
23	+5.64e-004	+3.24e-004	-3.25e-003	+4.16e-003	-1.12e-003	-3.24e-004
24	+1.27e-004	+2.69e-004	-9.32e-003	-1.69e-005	-8.42e-005	+4.47e-005
25	+4.92e-004	+2.69e-004	-4.10e-003	+4.62e-003	-9.61e-005	-3.56e-004
26	+2.97e-004	+2.22e-004	-7.52e-003	-1.47e-005	+2.67e-003	+1.52e-005
27	+5.53e-004	+2.23e-004	-3.46e-003	+4.20e-003	+1.02e-003	-3.42e-004
28	+6.91e-004	+1.98e-004	-3.22e-003	-1.29e-005	+3.32e-003	+8.11e-005
29	+7.07e-004	+1.96e-004	-1.79e-003	+3.04e-003	+1.34e-003	-2.01e-004
30	+8.95e-004	+1.34e-004	-9.90e-004	+2.10e-004	+1.71e-003	-2.11e-005
31	+7.91e-004	+1.50e-004	-8.70e-004	+2.42e-004	+7.75e-004	-2.23e-005
32	+9.64e-004	+1.67e-004	-2.26e-004	-2.55e-005	+1.53e-003	-8.03e-005
33	+8.24e-004	+1.63e-004	-5.09e-004	+2.32e-003	+7.27e-004	-2.19e-004

MASSIME DEFORMAZIONI NODALI

	Trasl.X	Trasl.Y	Trasl.Z	Rotaz.X	Rotaz.Y	Rotaz.Z	DLMax
Deform. nodali	+1.07e-003	+4.34e-004	-9.32e-003	-4.65e-003	+3.32e-003	+4.39e-004	+9.33e-003
Nodo	9	18	24	13	28	13	24

COMBINAZIONE DI CARICO: 7 - DESCRIZIONE: FREQUENTE

Nodo	Trasl.X	Trasl.Y	Trasl._Z	Rotaz.X	Rotaz.Y	Rotaz.Z
1	+0.00e+000	+0.00e+000	-6.73e-004	-1.77e-005	-9.43e-005	+0.00e+000
2	+0.00e+000	+0.00e+000	-6.72e-004	-2.02e-005	+8.13e-005	+0.00e+000
3	+0.00e+000	+0.00e+000	-7.75e-004	-1.30e-006	-1.56e-004	+0.00e+000
4	+0.00e+000	+0.00e+000	-7.75e-004	+1.20e-006	+1.18e-004	+0.00e+000
5	+0.00e+000	+0.00e+000	-6.84e-004	+1.59e-005	-9.97e-005	+0.00e+000
6	+0.00e+000	+0.00e+000	-6.60e-004	+2.20e-005	+7.47e-005	+0.00e+000
7	-7.78e-005	-8.83e-005	-6.88e-004	+3.52e-005	+3.52e-004	+2.40e-005
8	-8.79e-005	+7.92e-005	-6.85e-004	-4.86e-005	-3.62e-004	+3.61e-005
9	-6.32e-005	-1.00e-004	-5.26e-004	-1.14e-003	+3.29e-004	+1.16e-004
10	-7.28e-005	+9.17e-005	-5.17e-004	-1.15e-003	-3.39e-004	+1.18e-004
11	-1.21e-004	-7.21e-005	-1.16e-003	-1.49e-003	+7.25e-004	+1.46e-004
12	-2.08e-004	-4.39e-005	-2.12e-003	-2.08e-003	+6.06e-004	+2.03e-004
13	-2.48e-004	-1.28e-005	-2.54e-003	-2.25e-003	-9.16e-008	+2.20e-004
14	-2.12e-004	+1.99e-005	-2.12e-003	-2.03e-003	-6.05e-004	+2.02e-004
15	-1.29e-004	+5.60e-005	-1.16e-003	-1.49e-003	-7.27e-004	+1.55e-004
16	-2.03e-004	+9.18e-005	-8.06e-004	-3.28e-005	-8.07e-004	+2.36e-005
17	-1.70e-004	+9.20e-005	-4.47e-004	+3.93e-006	-7.20e-004	-6.92e-006
18	-2.27e-004	+6.16e-005	-6.73e-004	-2.81e-005	-4.08e-004	+3.54e-005
19	-2.10e-004	+9.12e-005	-4.83e-004	+1.16e-003	-3.84e-004	-2.76e-005

Nodo	Trasl.X	Trasl.Y	Trasl._Z	Rotaz.X	Rotaz.Y	Rotaz.Z
20	-2.98e-004	+5.60e-005	-1.92e-003	-1.07e-006	-1.69e-003	+4.39e-005
21	-2.71e-004	+5.48e-005	-1.18e-003	+1.49e-003	-7.48e-004	-1.19e-004
22	-4.92e-004	+1.99e-005	-4.15e-003	-2.96e-006	-1.40e-003	+2.19e-005
23	-3.55e-004	+2.01e-005	-2.14e-003	+2.02e-003	-6.00e-004	-1.44e-004
24	-5.74e-004	-1.27e-005	-5.12e-003	-8.73e-007	+9.64e-006	+2.48e-005
25	-3.89e-004	-1.28e-005	-2.55e-003	+2.25e-003	+1.43e-005	-1.73e-004
26	-4.81e-004	-4.32e-005	-4.13e-003	+1.30e-006	+1.41e-003	+2.08e-005
27	-3.48e-004	-4.27e-005	-2.11e-003	+2.08e-003	+6.15e-004	-1.55e-004
28	-2.78e-004	-7.23e-005	-1.91e-003	+1.19e-006	+1.68e-003	+2.78e-005
29	-2.61e-004	-7.20e-005	-1.16e-003	+1.49e-003	+7.11e-004	-1.10e-004
30	-1.77e-004	-9.46e-005	-8.10e-004	+2.43e-005	+7.82e-004	+1.70e-005
31	-2.19e-004	-8.52e-005	-7.00e-004	+4.70e-005	+3.16e-004	+1.59e-005
32	-1.46e-004	-1.01e-004	-4.64e-004	-4.49e-006	+6.95e-004	+1.00e-005
33	-2.06e-004	-1.01e-004	-5.55e-004	+1.14e-003	+2.93e-004	-5.90e-005

MASSIME DEFORMAZIONI NODALI

	Trasl.X	Trasl.Y	Trasl.Z	Rotaz.X	Rotaz.Y	Rotaz.Z	DLMax
Deform. nodali	-5.74e-004	-1.01e-004	-5.12e-003	-2.25e-003	-1.69e-003	+2.20e-004	+5.15e-003
Nodo	24	33	24	13	20	13	24

COMBINAZIONE DI CARICO: 8 - DESCRIZIONE: QUASI PERMANENTE

Nodo	Trasl.X	Trasl.Y	Trasl._Z	Rotaz.X	Rotaz.Y	Rotaz.Z
1	+0.00e+000	+0.00e+000	-6.73e-004	-1.77e-005	-9.43e-005	+0.00e+000
2	+0.00e+000	+0.00e+000	-6.72e-004	-2.02e-005	+8.13e-005	+0.00e+000
3	+0.00e+000	+0.00e+000	-7.75e-004	-1.30e-006	-1.56e-004	+0.00e+000
4	+0.00e+000	+0.00e+000	-7.75e-004	+1.20e-006	+1.18e-004	+0.00e+000
5	+0.00e+000	+0.00e+000	-6.84e-004	+1.59e-005	-9.97e-005	+0.00e+000
6	+0.00e+000	+0.00e+000	-6.60e-004	+2.20e-005	+7.47e-005	+0.00e+000
7	-7.78e-005	-8.83e-005	-6.88e-004	+3.52e-005	+3.52e-004	+2.40e-005
8	-8.79e-005	+7.92e-005	-6.85e-004	-4.86e-005	-3.62e-004	+3.61e-005
9	-6.32e-005	-1.00e-004	-5.26e-004	-1.14e-003	+3.29e-004	+1.16e-004
10	-7.28e-005	+9.17e-005	-5.17e-004	-1.15e-003	-3.39e-004	+1.18e-004
11	-1.21e-004	-7.21e-005	-1.16e-003	-1.49e-003	+7.25e-004	+1.46e-004
12	-2.08e-004	-4.39e-005	-2.12e-003	-2.08e-003	+6.06e-004	+2.03e-004
13	-2.48e-004	-1.28e-005	-2.54e-003	-2.25e-003	-9.16e-008	+2.20e-004
14	-2.12e-004	+1.99e-005	-2.12e-003	-2.03e-003	-6.05e-004	+2.02e-004
15	-1.29e-004	+5.60e-005	-1.16e-003	-1.49e-003	-7.27e-004	+1.55e-004
16	-2.03e-004	+9.18e-005	-8.06e-004	-3.28e-005	-8.07e-004	+2.36e-005
17	-1.70e-004	+9.20e-005	-4.47e-004	+3.93e-006	-7.20e-004	-6.92e-006
18	-2.27e-004	+6.16e-005	-6.73e-004	-2.81e-005	-4.08e-004	+3.54e-005
19	-2.10e-004	+9.12e-005	-4.83e-004	+1.16e-003	-3.84e-004	-2.76e-005
20	-2.98e-004	+5.60e-005	-1.92e-003	-1.07e-006	-1.69e-003	+4.39e-005
21	-2.71e-004	+5.48e-005	-1.18e-003	+1.49e-003	-7.48e-004	-1.19e-004
22	-4.92e-004	+1.99e-005	-4.15e-003	-2.96e-006	-1.40e-003	+2.19e-005
23	-3.55e-004	+2.01e-005	-2.14e-003	+2.02e-003	-6.00e-004	-1.44e-004
24	-5.74e-004	-1.27e-005	-5.12e-003	-8.73e-007	+9.64e-006	+2.48e-005
25	-3.89e-004	-1.28e-005	-2.55e-003	+2.25e-003	+1.43e-005	-1.73e-004
26	-4.81e-004	-4.32e-005	-4.13e-003	+1.30e-006	+1.41e-003	+2.08e-005
27	-3.48e-004	-4.27e-005	-2.11e-003	+2.08e-003	+6.15e-004	-1.55e-004
28	-2.78e-004	-7.23e-005	-1.91e-003	+1.19e-006	+1.68e-003	+2.78e-005
29	-2.61e-004	-7.20e-005	-1.16e-003	+1.49e-003	+7.11e-004	-1.10e-004
30	-1.77e-004	-9.46e-005	-8.10e-004	+2.43e-005	+7.82e-004	+1.70e-005
31	-2.19e-004	-8.52e-005	-7.00e-004	+4.70e-005	+3.16e-004	+1.59e-005
32	-1.46e-004	-1.01e-004	-4.64e-004	-4.49e-006	+6.95e-004	+1.00e-005
33	-2.06e-004	-1.01e-004	-5.55e-004	+1.14e-003	+2.93e-004	-5.90e-005

MASSIME DEFORMAZIONI NODALI

	Trasl.X	Trasl.Y	Trasl.Z	Rotaz.X	Rotaz.Y	Rotaz.Z	DLMax
Deform. nodali	-5.74e-004	-1.01e-004	-5.12e-003	-2.25e-003	-1.69e-003	+2.20e-004	+5.15e-003
Nodo	24	33	24	13	20	13	24

COMBINAZIONE DI CARICO: 9 - DESCRIZIONE: SISMICA

Nodo	Trasl.X	Trasl.Y	Trasl._Z	Rotaz.X	Rotaz.Y	Rotaz.Z
1	+0.00e+000	+0.00e+000	-6.73e-004	-1.77e-005	-9.43e-005	+0.00e+000
2	+0.00e+000	+0.00e+000	-6.72e-004	-2.02e-005	+8.13e-005	+0.00e+000
3	+0.00e+000	+0.00e+000	-7.75e-004	-1.30e-006	-1.56e-004	+0.00e+000
4	+0.00e+000	+0.00e+000	-7.75e-004	+1.20e-006	+1.18e-004	+0.00e+000
5	+0.00e+000	+0.00e+000	-6.84e-004	+1.59e-005	-9.97e-005	+0.00e+000
6	+0.00e+000	+0.00e+000	-6.60e-004	+2.20e-005	+7.47e-005	+0.00e+000
7	-7.78e-005	-8.83e-005	-6.88e-004	+3.52e-005	+3.52e-004	+2.40e-005
8	-8.79e-005	+7.92e-005	-6.85e-004	-4.86e-005	-3.62e-004	+3.61e-005
9	-6.32e-005	-1.00e-004	-5.26e-004	-1.14e-003	+3.29e-004	+1.16e-004
10	-7.28e-005	+9.17e-005	-5.17e-004	-1.15e-003	-3.39e-004	+1.18e-004
11	-1.21e-004	-7.21e-005	-1.16e-003	-1.49e-003	+7.25e-004	+1.46e-004
12	-2.08e-004	-4.39e-005	-2.12e-003	-2.08e-003	+6.06e-004	+2.03e-004
13	-2.48e-004	-1.28e-005	-2.54e-003	-2.25e-003	-9.16e-008	+2.20e-004
14	-2.12e-004	+1.99e-005	-2.12e-003	-2.03e-003	-6.05e-004	+2.02e-004
15	-1.29e-004	+5.60e-005	-1.16e-003	-1.49e-003	-7.27e-004	+1.55e-004
16	-2.03e-004	+9.18e-005	-8.06e-004	-3.28e-005	-8.07e-004	+2.36e-005
17	-1.70e-004	+9.20e-005	-4.47e-004	+3.93e-006	-7.20e-004	-6.92e-006
18	-2.27e-004	+6.16e-005	-6.73e-004	-2.81e-005	-4.08e-004	+3.54e-005
19	-2.10e-004	+9.12e-005	-4.83e-004	+1.16e-003	-3.84e-004	-2.76e-005
20	-2.98e-004	+5.60e-005	-1.92e-003	-1.07e-006	-1.69e-003	+4.39e-005
21	-2.71e-004	+5.48e-005	-1.18e-003	+1.49e-003	-7.48e-004	-1.19e-004
22	-4.92e-004	+1.99e-005	-4.15e-003	-2.96e-006	-1.40e-003	+2.19e-005
23	-3.55e-004	+2.01e-005	-2.14e-003	+2.02e-003	-6.00e-004	-1.44e-004
24	-5.74e-004	-1.27e-005	-5.12e-003	-8.73e-007	+9.64e-006	+2.48e-005
25	-3.89e-004	-1.28e-005	-2.55e-003	+2.25e-003	+1.43e-005	-1.73e-004
26	-4.81e-004	-4.32e-005	-4.13e-003	+1.30e-006	+1.41e-003	+2.08e-005
27	-3.48e-004	-4.27e-005	-2.11e-003	+2.08e-003	+6.15e-004	-1.55e-004
28	-2.78e-004	-7.23e-005	-1.91e-003	+1.19e-006	+1.68e-003	+2.78e-005
29	-2.61e-004	-7.20e-005	-1.16e-003	+1.49e-003	+7.11e-004	-1.10e-004
30	-1.77e-004	-9.46e-005	-8.10e-004	+2.43e-005	+7.82e-004	+1.70e-005
31	-2.19e-004	-8.52e-005	-7.00e-004	+4.70e-005	+3.16e-004	+1.59e-005
32	-1.46e-004	-1.01e-004	-4.64e-004	-4.49e-006	+6.95e-004	+1.00e-005
33	-2.06e-004	-1.01e-004	-5.55e-004	+1.14e-003	+2.93e-004	-5.90e-005

MASSIME DEFORMAZIONI NODALI

	Trasl.X	Trasl.Y	Trasl.Z	Rotaz.X	Rotaz.Y	Rotaz.Z	DLMax
Deform. nodali	-5.74e-004	-1.01e-004	-5.12e-003	-2.25e-003	-1.69e-003	+2.20e-004	+5.15e-003
Nodo	24	33	24	13	20	13	24

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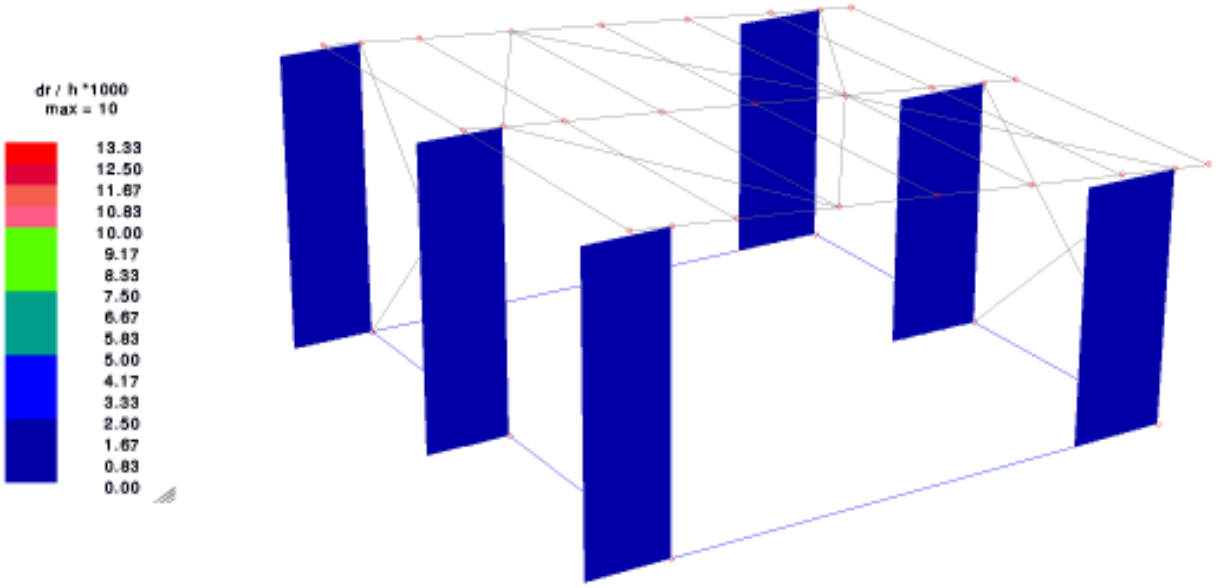
MASSIMI SPOSTAMENTI RELATIVI DI PIANO (SPOSTAMENTI DI INTERPIANO)

Spostamento interpiano <= 0.01 h

Nome archivio di lavoro : RIS-SLD
Intestazione del lavoro : STRUTTURA IN ACCIAIO

GRUPPO: 1 COLONNE

N pil	altezza h	eta	eta/h	comb
3	+3.200e+000	+4.054e-003	+1.267e-003	D1



TABULATO DI CALCOLO E VERIFICHE
STATO LIMITE DI OPERATIVITA' **SLO**

STAMPA DEI DATI DI PROGETTO

INTESTAZIONE E DATI CARATTERISTICI DELLA STRUTTURA

Nome dell'archivio di lavoro	**RIS-SLO**
Intestazione del lavoro	**STRUTTURA IN ACCIAIO**
Tipo di struttura	Nello Spazio
Tipo di analisi	Statica e Dinamica
Tipo di soluzione	Lineare
Unita' di misura delle forze	kg
Unita' di misura delle lunghezze	m
Normativa	NTC-2018

NORMATIVA

Vita nominale costruzione	50 anni
Classe d'uso costruzione	IV
Vita di riferimento	100 anni
Luogo	Reggio di Calabria - (RC)
Longitudine (ED50)	15.654
Latitudine (ED50)	38.12
Categoria del suolo	B
Fattore topografico	1

PARAMETRI SISMICI

	TR
SLO	60
SLD	101
SLV	949

TR utilizzato nel progetto	60 anni

STATO LIMITE DI OPERATIVITA'

Coefficiente di smorzamento	5%
Eccentricita' accidentale	0%
Numero di frequenze	30

PARAMETRI SISMICI

Angolo del sisma nel piano orizzontale	0
Sisma verticale	Presente
Combinazione dei modi	SRSS
Combinazione componenti azioni sismiche	NTC - Eurocodice 8
λ	0.3
μ	0.3

COMBINAZIONI DI CARICO

NORMATIVA: NORME TECNICHE PER LE COSTRUZIONI 2018 ITALIA

COMBINAZIONI PER LE VERIFICHE ALLO STATO LIMITE ULTIMO

Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
1	Statica 1 (neve Prevalente e vento dir. X)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	1.500
			Variabile: Vento	Condizione 3	0.900
			Variabile: Vento	Condizione 4	0.000
2	Statica 2 (neve Prevalente e vento dir. Y)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	1.500
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	0.900
3	Statica 3 (Vento dir. X Prevalente e Neve)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	0.750
			Variabile: Vento	Condizione 3	1.500
			Variabile: Vento	Condizione 4	0.000
4	Statica 4 (Vento dir. Y Prevalente e Neve)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	0.750
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	1.500
5	Sismica (Dinamica)	Azione sismica: Presente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	0.200
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	0.000

COMBINAZIONI PER LE VERIFICHE ALLO STATO LIMITE DI DANNO

Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
6	Rara	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	1.000
			Variabile: Vento	Condizione 3	0.600
			Variabile: Vento	Condizione 4	0.600
7	Frequente	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	0.200
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	0.000
8	Quasi Permanente	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	0.200
9	Sismica	Azione sismica: Presente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	0.200

SPOSTAMENTI/ROTAZIONI NODI NON BLOCCATI

COMBINAZIONE DI CARICO: 6 - DESCRIZIONE: RARA

Nodo	Trasl.X	Trasl.Y	Trasl._Z	Rotaz.X	Rotaz.Y	Rotaz.Z
1	+0.00e+000	+0.00e+000	-7.11e-004	-6.54e-005	-8.30e-005	+0.00e+000
2	+0.00e+000	+0.00e+000	-7.68e-004	-8.05e-005	+2.12e-004	+0.00e+000
3	+0.00e+000	+0.00e+000	-9.29e-004	-1.47e-005	-1.46e-004	+0.00e+000
4	+0.00e+000	+0.00e+000	-1.06e-003	-6.76e-006	+3.71e-004	+0.00e+000
5	+0.00e+000	+0.00e+000	-8.40e-004	-5.00e-006	-1.16e-004	+0.00e+000
6	+0.00e+000	+0.00e+000	-8.31e-004	+3.00e-005	+2.19e-004	+0.00e+000
7	+1.03e-003	+2.71e-004	-7.35e-004	+1.79e-004	+8.29e-004	+6.70e-005
8	+1.01e-003	+3.84e-004	-7.89e-004	-6.97e-006	-3.12e-004	+5.71e-005
9	+1.07e-003	+1.74e-004	-3.48e-004	-2.35e-003	+7.81e-004	+4.25e-004
10	+1.02e-003	+4.21e-004	-6.59e-004	-2.40e-003	-2.64e-004	+2.74e-004
11	+9.48e-004	+2.05e-004	-1.68e-003	-3.07e-003	+1.36e-003	+1.65e-004
12	+7.95e-004	+2.19e-004	-3.36e-003	-4.22e-003	+1.00e-003	+4.15e-004
13	+7.36e-004	+2.69e-004	-3.97e-003	-4.65e-003	-1.14e-004	+4.39e-004
14	+8.09e-004	+3.25e-004	-3.10e-003	-4.20e-003	-1.12e-003	+4.11e-004
15	+9.51e-004	+3.75e-004	-1.46e-003	-3.10e-003	-1.14e-003	+2.73e-004
16	+8.31e-004	+4.01e-004	-1.12e-003	-1.16e-005	-1.23e-003	+3.92e-005
17	+8.79e-004	+4.23e-004	-5.94e-004	-2.54e-006	-1.05e-003	+4.53e-005
18	+7.71e-004	+4.34e-004	-8.54e-004	-3.65e-005	-3.97e-004	+1.48e-005
19	+7.86e-004	+4.26e-004	-6.81e-004	+2.39e-003	-3.49e-004	-2.20e-004
20	+6.63e-004	+3.77e-004	-3.08e-003	-1.57e-005	-3.12e-003	+3.30e-005
21	+7.09e-004	+3.79e-004	-1.57e-003	+3.07e-003	-1.19e-003	-1.87e-004
22	+2.95e-004	+3.25e-004	-7.34e-003	-1.90e-005	-2.75e-003	+4.34e-005
23	+5.64e-004	+3.24e-004	-3.25e-003	+4.16e-003	-1.12e-003	-3.24e-004
24	+1.27e-004	+2.69e-004	-9.32e-003	-1.69e-005	-8.42e-005	+4.47e-005
25	+4.92e-004	+2.69e-004	-4.10e-003	+4.62e-003	-9.61e-005	-3.56e-004
26	+2.97e-004	+2.22e-004	-7.52e-003	-1.47e-005	+2.67e-003	+1.52e-005
27	+5.53e-004	+2.23e-004	-3.46e-003	+4.20e-003	+1.02e-003	-3.42e-004
28	+6.91e-004	+1.98e-004	-3.22e-003	-1.29e-005	+3.32e-003	+8.11e-005
29	+7.07e-004	+1.96e-004	-1.79e-003	+3.04e-003	+1.34e-003	-2.01e-004
30	+8.95e-004	+1.34e-004	-9.90e-004	+2.10e-004	+1.71e-003	-2.11e-005
31	+7.91e-004	+1.50e-004	-8.70e-004	+2.42e-004	+7.75e-004	-2.23e-005
32	+9.64e-004	+1.67e-004	-2.26e-004	-2.55e-005	+1.53e-003	-8.03e-005
33	+8.24e-004	+1.63e-004	-5.09e-004	+2.32e-003	+7.27e-004	-2.19e-004

MASSIME DEFORMAZIONI NODALI

	Trasl.X	Trasl.Y	Trasl.Z	Rotaz.X	Rotaz.Y	Rotaz.Z	DLMax
Deform. nodali	+1.07e-003	+4.34e-004	-9.32e-003	-4.65e-003	+3.32e-003	+4.39e-004	+9.33e-003
Nodo	9	18	24	13	28	13	24

COMBINAZIONE DI CARICO: 7 - DESCRIZIONE: FREQUENTE

Nodo	Trasl.X	Trasl.Y	Trasl._Z	Rotaz.X	Rotaz.Y	Rotaz.Z
1	+0.00e+000	+0.00e+000	-6.73e-004	-1.77e-005	-9.43e-005	+0.00e+000
2	+0.00e+000	+0.00e+000	-6.72e-004	-2.02e-005	+8.13e-005	+0.00e+000
3	+0.00e+000	+0.00e+000	-7.75e-004	-1.30e-006	-1.56e-004	+0.00e+000
4	+0.00e+000	+0.00e+000	-7.75e-004	+1.20e-006	+1.18e-004	+0.00e+000
5	+0.00e+000	+0.00e+000	-6.84e-004	+1.59e-005	-9.97e-005	+0.00e+000
6	+0.00e+000	+0.00e+000	-6.60e-004	+2.20e-005	+7.47e-005	+0.00e+000
7	-7.78e-005	-8.83e-005	-6.88e-004	+3.52e-005	+3.52e-004	+2.40e-005
8	-8.79e-005	+7.92e-005	-6.85e-004	-4.86e-005	-3.62e-004	+3.61e-005
9	-6.32e-005	-1.00e-004	-5.26e-004	-1.14e-003	+3.29e-004	+1.16e-004
10	-7.28e-005	+9.17e-005	-5.17e-004	-1.15e-003	-3.39e-004	+1.18e-004
11	-1.21e-004	-7.21e-005	-1.16e-003	-1.49e-003	+7.25e-004	+1.46e-004
12	-2.08e-004	-4.39e-005	-2.12e-003	-2.08e-003	+6.06e-004	+2.03e-004
13	-2.48e-004	-1.28e-005	-2.54e-003	-2.25e-003	-9.16e-008	+2.20e-004
14	-2.12e-004	+1.99e-005	-2.12e-003	-2.03e-003	-6.05e-004	+2.02e-004
15	-1.29e-004	+5.60e-005	-1.16e-003	-1.49e-003	-7.27e-004	+1.55e-004
16	-2.03e-004	+9.18e-005	-8.06e-004	-3.28e-005	-8.07e-004	+2.36e-005
17	-1.70e-004	+9.20e-005	-4.47e-004	+3.93e-006	-7.20e-004	-6.92e-006
18	-2.27e-004	+6.16e-005	-6.73e-004	-2.81e-005	-4.08e-004	+3.54e-005
19	-2.10e-004	+9.12e-005	-4.83e-004	+1.16e-003	-3.84e-004	-2.76e-005

Nodo	Trasl.X	Trasl.Y	Trasl._Z	Rotaz.X	Rotaz.Y	Rotaz.Z
20	-2.98e-004	+5.60e-005	-1.92e-003	-1.07e-006	-1.69e-003	+4.39e-005
21	-2.71e-004	+5.48e-005	-1.18e-003	+1.49e-003	-7.48e-004	-1.19e-004
22	-4.92e-004	+1.99e-005	-4.15e-003	-2.96e-006	-1.40e-003	+2.19e-005
23	-3.55e-004	+2.01e-005	-2.14e-003	+2.02e-003	-6.00e-004	-1.44e-004
24	-5.74e-004	-1.27e-005	-5.12e-003	-8.73e-007	+9.64e-006	+2.48e-005
25	-3.89e-004	-1.28e-005	-2.55e-003	+2.25e-003	+1.43e-005	-1.73e-004
26	-4.81e-004	-4.32e-005	-4.13e-003	+1.30e-006	+1.41e-003	+2.08e-005
27	-3.48e-004	-4.27e-005	-2.11e-003	+2.08e-003	+6.15e-004	-1.55e-004
28	-2.78e-004	-7.23e-005	-1.91e-003	+1.19e-006	+1.68e-003	+2.78e-005
29	-2.61e-004	-7.20e-005	-1.16e-003	+1.49e-003	+7.11e-004	-1.10e-004
30	-1.77e-004	-9.46e-005	-8.10e-004	+2.43e-005	+7.82e-004	+1.70e-005
31	-2.19e-004	-8.52e-005	-7.00e-004	+4.70e-005	+3.16e-004	+1.59e-005
32	-1.46e-004	-1.01e-004	-4.64e-004	-4.49e-006	+6.95e-004	+1.00e-005
33	-2.06e-004	-1.01e-004	-5.55e-004	+1.14e-003	+2.93e-004	-5.90e-005

MASSIME DEFORMAZIONI NODALI

	Trasl.X	Trasl.Y	Trasl.Z	Rotaz.X	Rotaz.Y	Rotaz.Z	DLMax
Deform. nodali	-5.74e-004	-1.01e-004	-5.12e-003	-2.25e-003	-1.69e-003	+2.20e-004	+5.15e-003
Nodo	24	33	24	13	20	13	24

COMBINAZIONE DI CARICO: 8 - DESCRIZIONE: QUASI PERMANENTE

Nodo	Trasl.X	Trasl.Y	Trasl._Z	Rotaz.X	Rotaz.Y	Rotaz.Z
1	+0.00e+000	+0.00e+000	-6.73e-004	-1.77e-005	-9.43e-005	+0.00e+000
2	+0.00e+000	+0.00e+000	-6.72e-004	-2.02e-005	+8.13e-005	+0.00e+000
3	+0.00e+000	+0.00e+000	-7.75e-004	-1.30e-006	-1.56e-004	+0.00e+000
4	+0.00e+000	+0.00e+000	-7.75e-004	+1.20e-006	+1.18e-004	+0.00e+000
5	+0.00e+000	+0.00e+000	-6.84e-004	+1.59e-005	-9.97e-005	+0.00e+000
6	+0.00e+000	+0.00e+000	-6.60e-004	+2.20e-005	+7.47e-005	+0.00e+000
7	-7.78e-005	-8.83e-005	-6.88e-004	+3.52e-005	+3.52e-004	+2.40e-005
8	-8.79e-005	+7.92e-005	-6.85e-004	-4.86e-005	-3.62e-004	+3.61e-005
9	-6.32e-005	-1.00e-004	-5.26e-004	-1.14e-003	+3.29e-004	+1.16e-004
10	-7.28e-005	+9.17e-005	-5.17e-004	-1.15e-003	-3.39e-004	+1.18e-004
11	-1.21e-004	-7.21e-005	-1.16e-003	-1.49e-003	+7.25e-004	+1.46e-004
12	-2.08e-004	-4.39e-005	-2.12e-003	-2.08e-003	+6.06e-004	+2.03e-004
13	-2.48e-004	-1.28e-005	-2.54e-003	-2.25e-003	-9.16e-008	+2.20e-004
14	-2.12e-004	+1.99e-005	-2.12e-003	-2.03e-003	-6.05e-004	+2.02e-004
15	-1.29e-004	+5.60e-005	-1.16e-003	-1.49e-003	-7.27e-004	+1.55e-004
16	-2.03e-004	+9.18e-005	-8.06e-004	-3.28e-005	-8.07e-004	+2.36e-005
17	-1.70e-004	+9.20e-005	-4.47e-004	+3.93e-006	-7.20e-004	-6.92e-006
18	-2.27e-004	+6.16e-005	-6.73e-004	-2.81e-005	-4.08e-004	+3.54e-005
19	-2.10e-004	+9.12e-005	-4.83e-004	+1.16e-003	-3.84e-004	-2.76e-005
20	-2.98e-004	+5.60e-005	-1.92e-003	-1.07e-006	-1.69e-003	+4.39e-005
21	-2.71e-004	+5.48e-005	-1.18e-003	+1.49e-003	-7.48e-004	-1.19e-004
22	-4.92e-004	+1.99e-005	-4.15e-003	-2.96e-006	-1.40e-003	+2.19e-005
23	-3.55e-004	+2.01e-005	-2.14e-003	+2.02e-003	-6.00e-004	-1.44e-004
24	-5.74e-004	-1.27e-005	-5.12e-003	-8.73e-007	+9.64e-006	+2.48e-005
25	-3.89e-004	-1.28e-005	-2.55e-003	+2.25e-003	+1.43e-005	-1.73e-004
26	-4.81e-004	-4.32e-005	-4.13e-003	+1.30e-006	+1.41e-003	+2.08e-005
27	-3.48e-004	-4.27e-005	-2.11e-003	+2.08e-003	+6.15e-004	-1.55e-004
28	-2.78e-004	-7.23e-005	-1.91e-003	+1.19e-006	+1.68e-003	+2.78e-005
29	-2.61e-004	-7.20e-005	-1.16e-003	+1.49e-003	+7.11e-004	-1.10e-004
30	-1.77e-004	-9.46e-005	-8.10e-004	+2.43e-005	+7.82e-004	+1.70e-005
31	-2.19e-004	-8.52e-005	-7.00e-004	+4.70e-005	+3.16e-004	+1.59e-005
32	-1.46e-004	-1.01e-004	-4.64e-004	-4.49e-006	+6.95e-004	+1.00e-005
33	-2.06e-004	-1.01e-004	-5.55e-004	+1.14e-003	+2.93e-004	-5.90e-005

MASSIME DEFORMAZIONI NODALI

	Trasl.X	Trasl.Y	Trasl.Z	Rotaz.X	Rotaz.Y	Rotaz.Z	DLMax
Deform. nodali	-5.74e-004	-1.01e-004	-5.12e-003	-2.25e-003	-1.69e-003	+2.20e-004	+5.15e-003
Nodo	24	33	24	13	20	13	24

COMBINAZIONE DI CARICO: 9 - DESCRIZIONE: SISMICA

Nodo	Trasl.X	Trasl.Y	Trasl._Z	Rotaz.X	Rotaz.Y	Rotaz.Z
1	+0.00e+000	+0.00e+000	-6.73e-004	-1.77e-005	-9.43e-005	+0.00e+000
2	+0.00e+000	+0.00e+000	-6.72e-004	-2.02e-005	+8.13e-005	+0.00e+000
3	+0.00e+000	+0.00e+000	-7.75e-004	-1.30e-006	-1.56e-004	+0.00e+000
4	+0.00e+000	+0.00e+000	-7.75e-004	+1.20e-006	+1.18e-004	+0.00e+000
5	+0.00e+000	+0.00e+000	-6.84e-004	+1.59e-005	-9.97e-005	+0.00e+000
6	+0.00e+000	+0.00e+000	-6.60e-004	+2.20e-005	+7.47e-005	+0.00e+000
7	-7.78e-005	-8.83e-005	-6.88e-004	+3.52e-005	+3.52e-004	+2.40e-005
8	-8.79e-005	+7.92e-005	-6.85e-004	-4.86e-005	-3.62e-004	+3.61e-005
9	-6.32e-005	-1.00e-004	-5.26e-004	-1.14e-003	+3.29e-004	+1.16e-004
10	-7.28e-005	+9.17e-005	-5.17e-004	-1.15e-003	-3.39e-004	+1.18e-004
11	-1.21e-004	-7.21e-005	-1.16e-003	-1.49e-003	+7.25e-004	+1.46e-004
12	-2.08e-004	-4.39e-005	-2.12e-003	-2.08e-003	+6.06e-004	+2.03e-004
13	-2.48e-004	-1.28e-005	-2.54e-003	-2.25e-003	-9.16e-008	+2.20e-004
14	-2.12e-004	+1.99e-005	-2.12e-003	-2.03e-003	-6.05e-004	+2.02e-004
15	-1.29e-004	+5.60e-005	-1.16e-003	-1.49e-003	-7.27e-004	+1.55e-004
16	-2.03e-004	+9.18e-005	-8.06e-004	-3.28e-005	-8.07e-004	+2.36e-005
17	-1.70e-004	+9.20e-005	-4.47e-004	+3.93e-006	-7.20e-004	-6.92e-006
18	-2.27e-004	+6.16e-005	-6.73e-004	-2.81e-005	-4.08e-004	+3.54e-005
19	-2.10e-004	+9.12e-005	-4.83e-004	+1.16e-003	-3.84e-004	-2.76e-005
20	-2.98e-004	+5.60e-005	-1.92e-003	-1.07e-006	-1.69e-003	+4.39e-005
21	-2.71e-004	+5.48e-005	-1.18e-003	+1.49e-003	-7.48e-004	-1.19e-004
22	-4.92e-004	+1.99e-005	-4.15e-003	-2.96e-006	-1.40e-003	+2.19e-005
23	-3.55e-004	+2.01e-005	-2.14e-003	+2.02e-003	-6.00e-004	-1.44e-004
24	-5.74e-004	-1.27e-005	-5.12e-003	-8.73e-007	+9.64e-006	+2.48e-005
25	-3.89e-004	-1.28e-005	-2.55e-003	+2.25e-003	+1.43e-005	-1.73e-004
26	-4.81e-004	-4.32e-005	-4.13e-003	+1.30e-006	+1.41e-003	+2.08e-005
27	-3.48e-004	-4.27e-005	-2.11e-003	+2.08e-003	+6.15e-004	-1.55e-004
28	-2.78e-004	-7.23e-005	-1.91e-003	+1.19e-006	+1.68e-003	+2.78e-005
29	-2.61e-004	-7.20e-005	-1.16e-003	+1.49e-003	+7.11e-004	-1.10e-004
30	-1.77e-004	-9.46e-005	-8.10e-004	+2.43e-005	+7.82e-004	+1.70e-005
31	-2.19e-004	-8.52e-005	-7.00e-004	+4.70e-005	+3.16e-004	+1.59e-005
32	-1.46e-004	-1.01e-004	-4.64e-004	-4.49e-006	+6.95e-004	+1.00e-005
33	-2.06e-004	-1.01e-004	-5.55e-004	+1.14e-003	+2.93e-004	-5.90e-005

MASSIME DEFORMAZIONI NODALI

	Trasl.X	Trasl.Y	Trasl.Z	Rotaz.X	Rotaz.Y	Rotaz.Z	DLMax
Deform. nodali	-5.74e-004	-1.01e-004	-5.12e-003	-2.25e-003	-1.69e-003	+2.20e-004	+5.15e-003
Nodo	24	33	24	13	20	13	24

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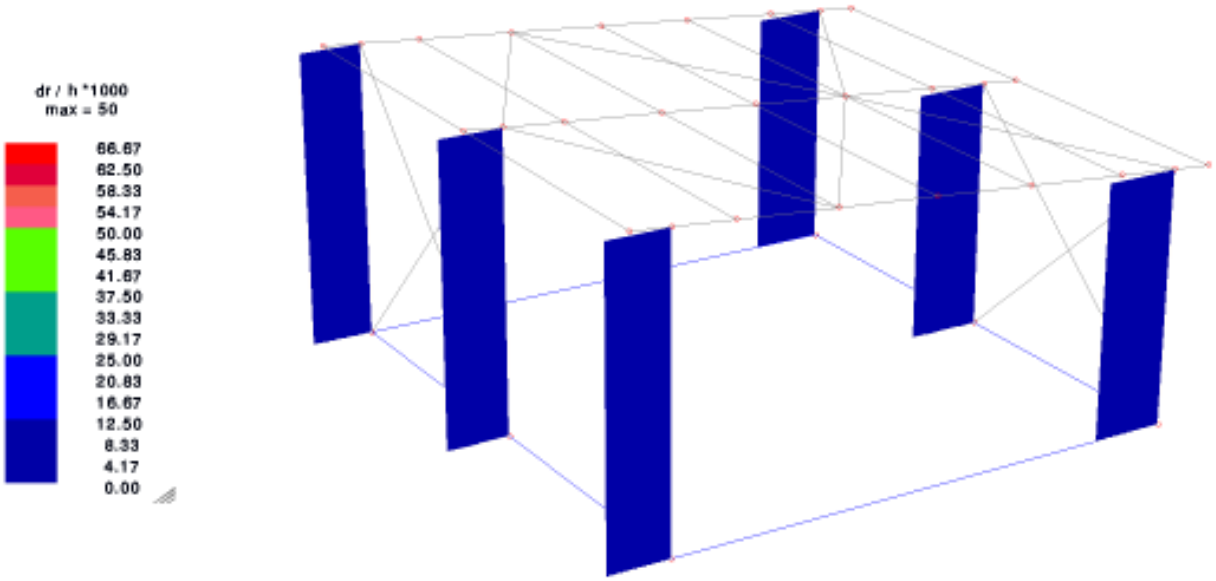
MASSIMI SPOSTAMENTI RELATIVI DI PIANO (SPOSTAMENTI DI INTERPIANO)

Spostamento interpiano <= 0.05 h

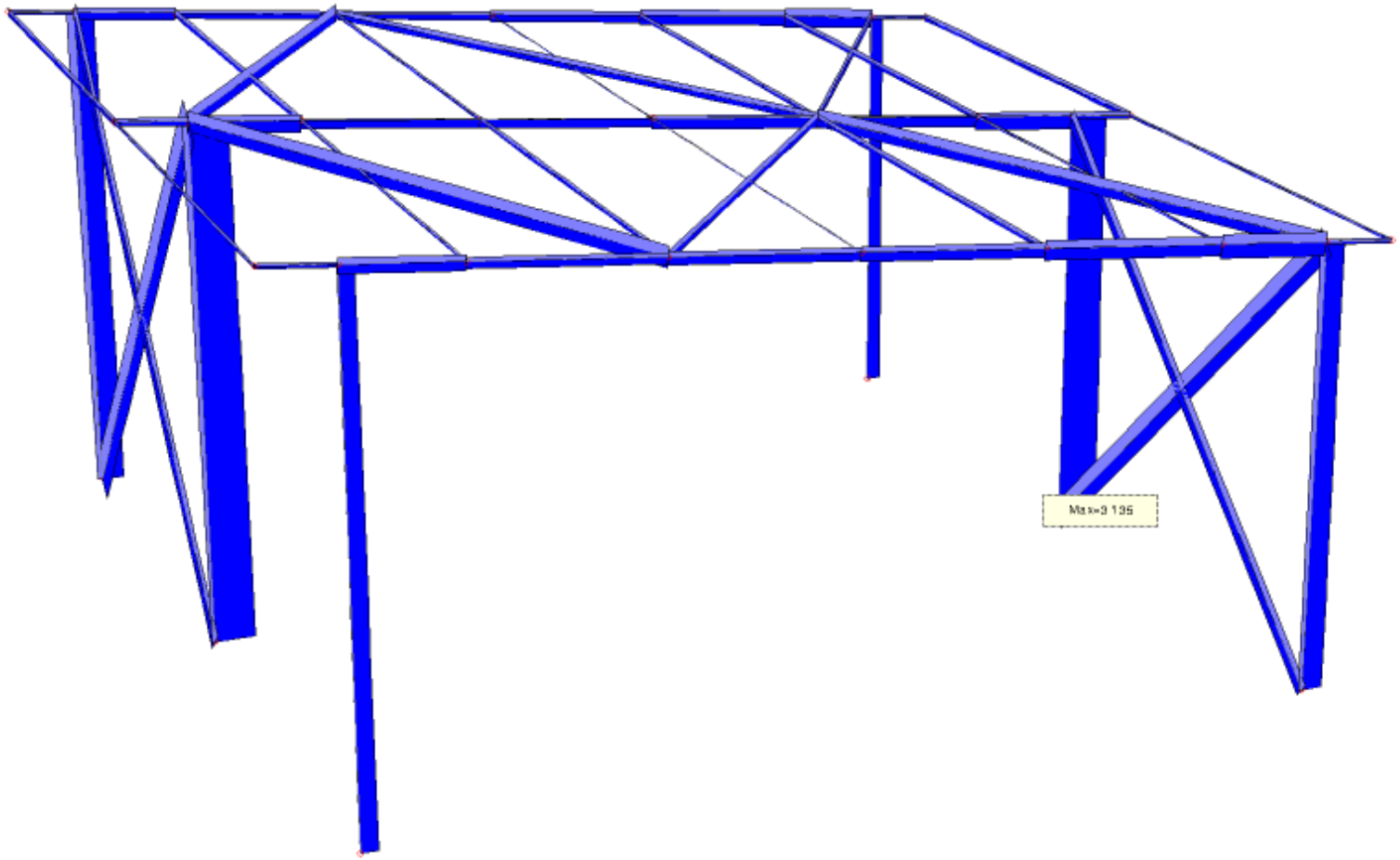
Nome archivio di lavoro : RIS-SLO
Intestazione del lavoro : STRUTTURA IN ACCIAIO

GRUPPO: 1 COLONNE

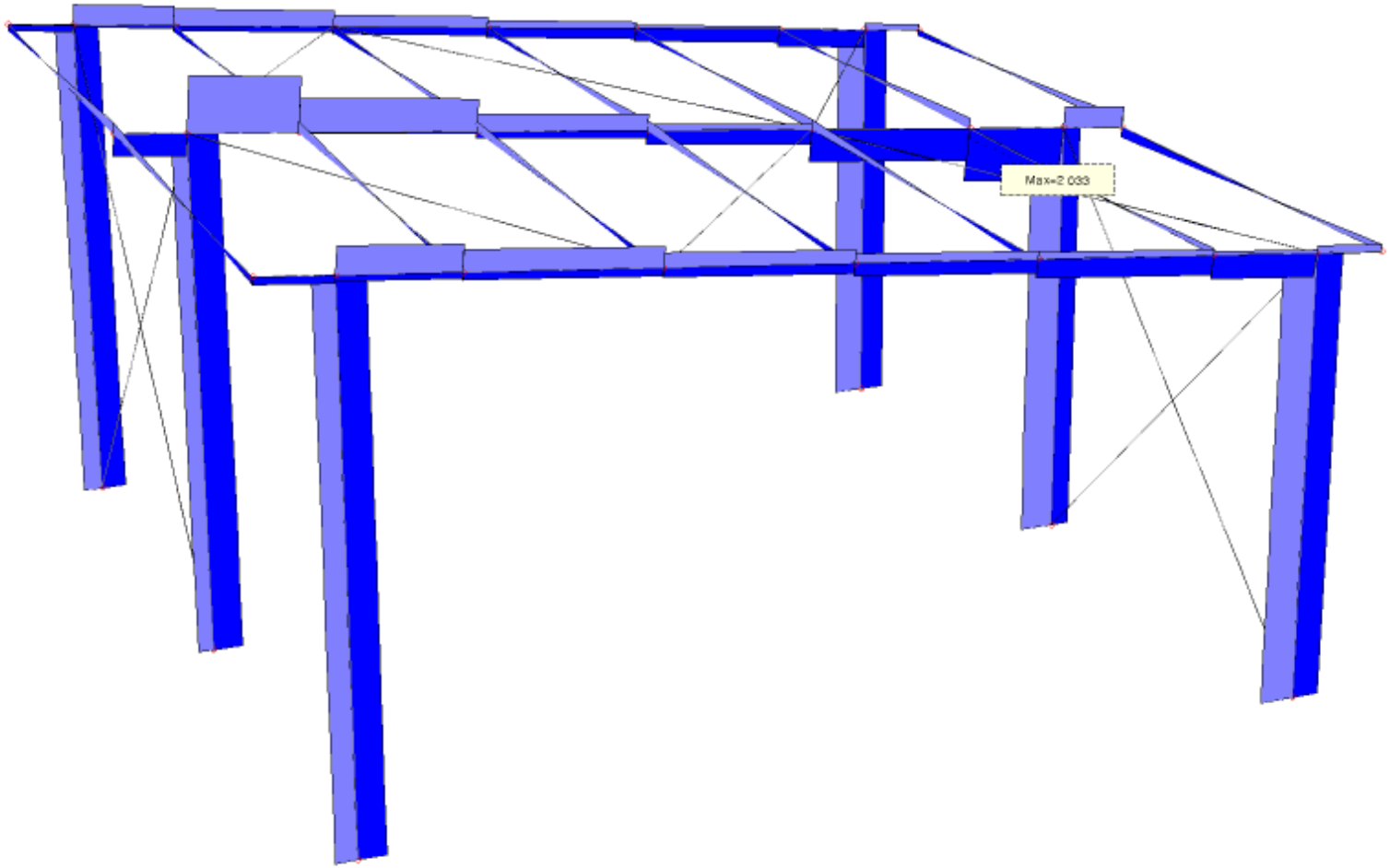
N pil	altezza h	eta	eta/h	comb
3	+3.200e+000	+3.053e-003	+9.540e-004	D1



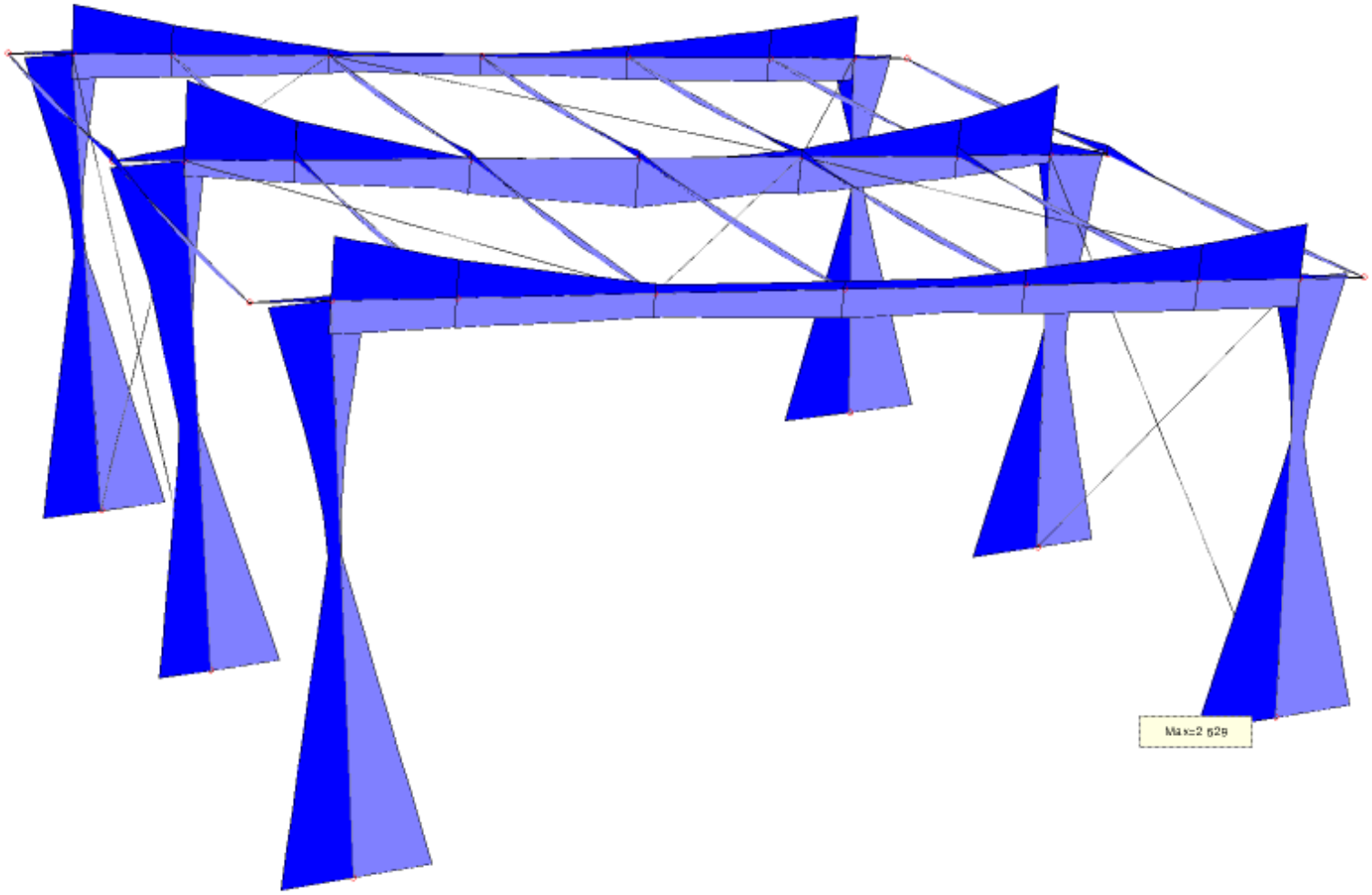
SFORZO NORMALE



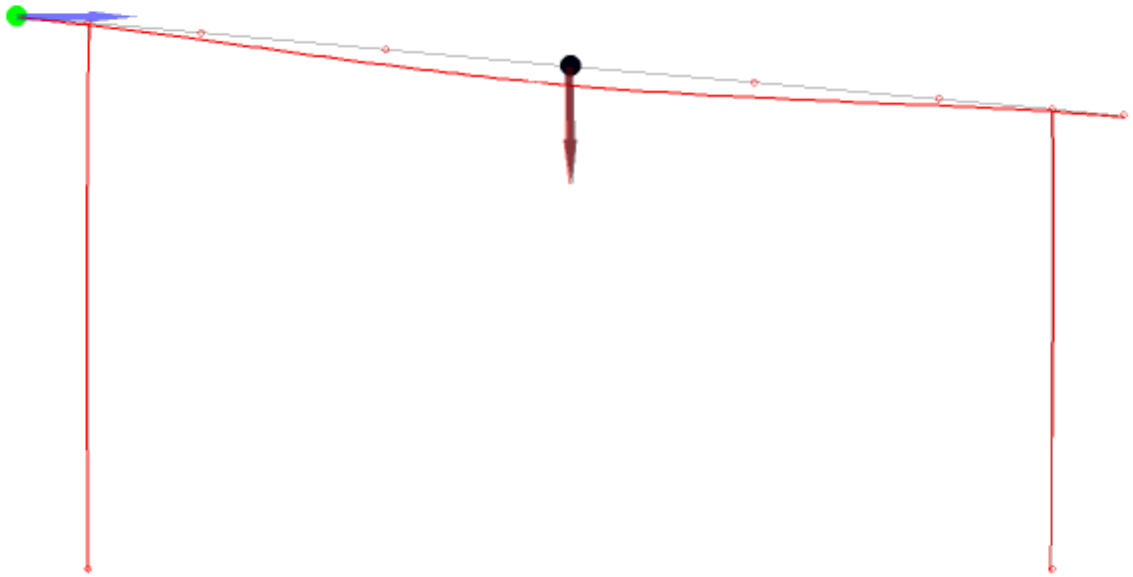
SFORZO DI TAGLIO



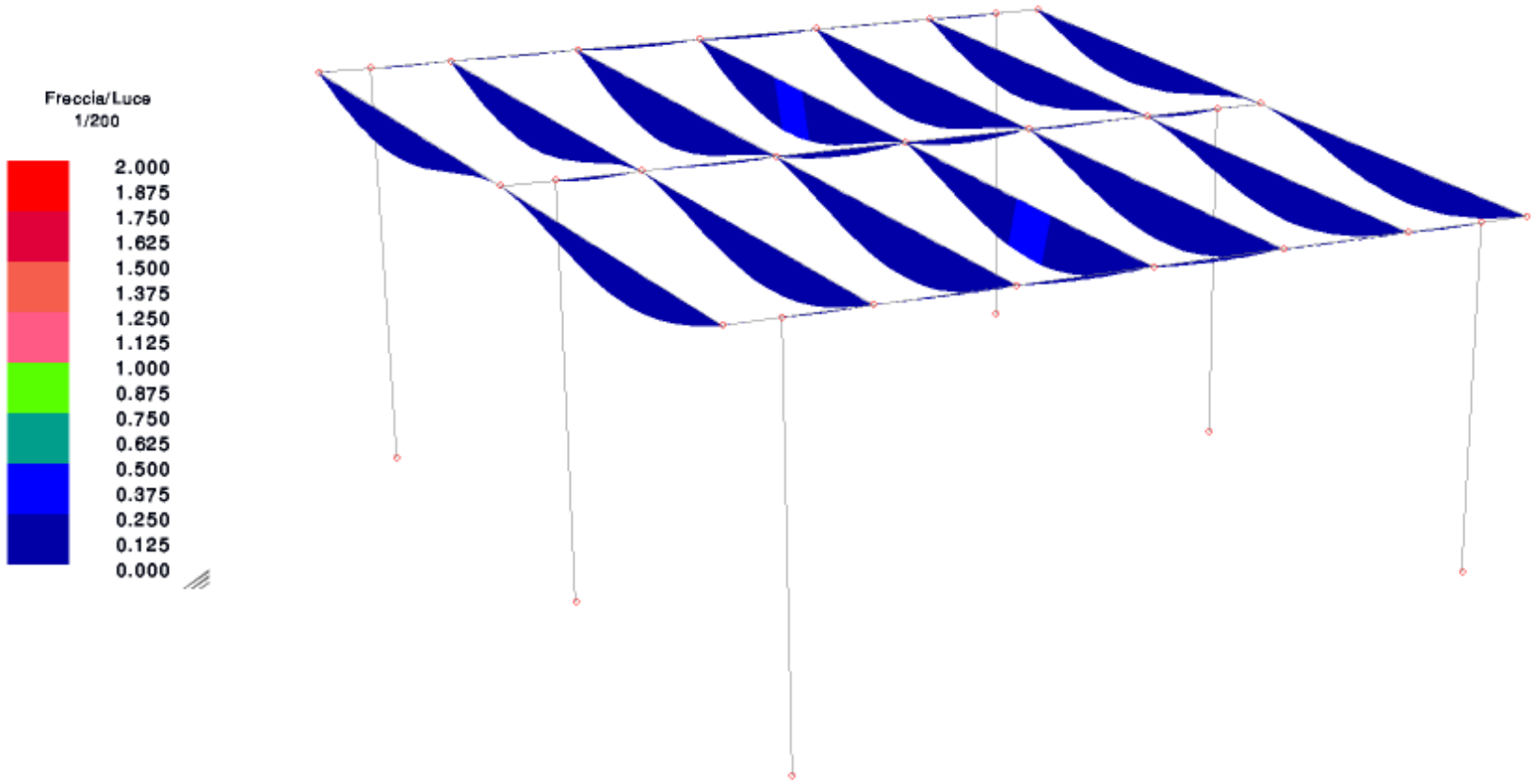
MOMENTO FLETTENTE



DEFORMATA MASSIMA (MAX = 0.004 m. < 1/150 H) punto *4.2.4.2.2 NTC 2018 Spostamenti laterali*



DEFORMATA MASSIMA COPERTURA (< 1/200 L) punto *4.2.4.2.1 NTC 2018 Spostamenti Verticali*



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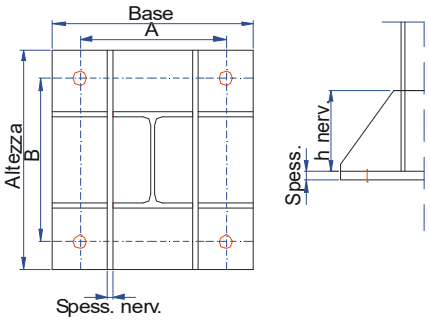
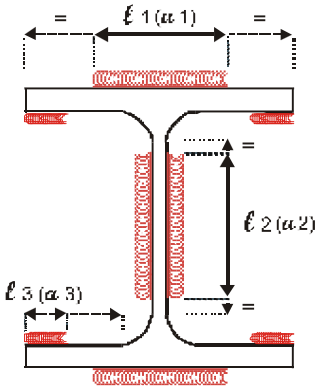
U N I O N E C O L O N N A - F O N D A Z I O N E

Descrizione: Nodo Piastra PF

Colonna: Gruppo = 1 Elemento = 3 Nodo = 4 **HEA 200** S 275 (Fe 430)
[Progetto] Banca n. 0: Banche generali AMV
Assi locali piastra
N = -3135.00 kg
Ty = 1298.48 kg My = -270.80 kg*m
Tz = -350.00 kg Mz = -2286.49 kg*m
Per le sollecitazioni di ogni c.c. riferirsi ai risultati dell'analisi strutturale.
[Verifica piastra di base] (S 235 (Fe 360), Rck 300)
400x380x15 Tipologia n. 3 A = 320 B = 320 (mm)
[Verifica cls]
Verifica cls: I.R. = 0.37 (c.c. n. 10)
Verifica piastra: Sigma id = 1111.0 kg/cm² I.R. = 0.49 (c.c. n. 10)
[Verifica tirafondo] (S 235 (Fe 360))
Numero 4 tirafondi ad aderenza: Diam. = 22 Lunghezza = 440 (mm) (pari a 20 diametri, aggiungere uncino)
Massime forze trasmesse al singolo tirafondo e relative resistenze:
Fvb,Sd = 324.62 kg Ftb,Sd = 3390.47 kg
Fvb,Rd = 5021.94 kg Ft,Rd = 7532.91 kg I.R. = 0.45 (c.c. n. 9)
[Verifica saldatura profilo]
Saldatura a cordone d'angolo (doppia sull'ala): verificata
Lunghezza1: 200 (mm) Altezza di gola1: 7 (mm)
Lunghezza2: 134 (mm) Altezza di gola2: 5 (mm)
Lunghezza3: 79 (mm) Altezza di gola3: 7 (mm)
Sigma perp. = 547.5 kg/cm² Tens par. = 106.5 kg/cm²
I.R. = 0.27
[Resistenza del nodo]
Modalità di collasso: **nessuna**, situazione più gravosa [Verifica piastra]





a 1=a 3

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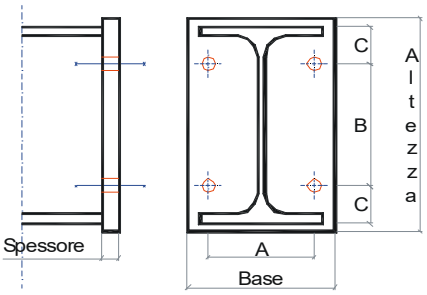
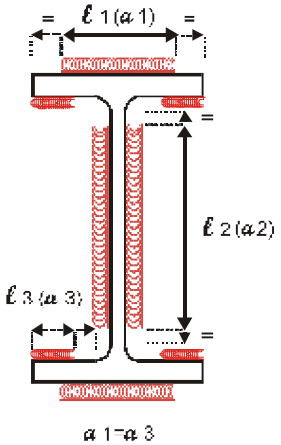
U N I O N E T R A V E - C O L O N N A
N O D O I N C A S T R O : U n i o n e f l a n g i a t a

Descrizione: Nodo Piastra P1

Colonna: Gruppo = 1 Elemento = 3 **HEA 200**
Trave: Gruppo = 2 Elemento = 11 **IPE 200** S 275 (Fe 430)
[Progetto] Banca n. 0: Banche generali AMV
N = -1013.80 kg T (taglio massimo) = -2033.00 kg Mmax pos.= 228.38 kg*m Mmax neg.= -2200.00 kg*m M torcente = 0.00 kg*m
Per le sollecitazioni di ogni c.c. riferirsi ai risultati dell'analisi strutturale.
[Verifica flangia] (S 235 (Fe 360))
Flangia tipo 1: 180x400x15 A = 100 B = 296 C = 32 (mm)
n. 2 file intermedie di bulloni per infittimento
Diam. bulloni M16 Incremento foro: 2.0 (mm) (Classe 8.8)
[Resistenza zona a taglio]
F,Rd = 25039.9 kg (resistenza anima colonna)
[Resistenza zona a compressione]
F,Rd = 23635.0 kg (resistenza anima colonna)
[Resistenza zona a trazione]
[Seconda fila di bulloni]
F,Rd = 13861.1 kg (resistenza ala colonna)
F,Rd = 17402.2 kg (resistenza flangia di estremità)
F,Rd = 26157.4 kg (resistenza anima colonna)
F,t2,Rd,ult = 13861.1 kg (resistenza efficace seconda fila)
[Momento resistente negativo]
Mj,Rd = 4458.4 kg*m
[Momento resistente positivo]
Mj,Rd = 4458.4 kg*m
[Rigidezza rotazionale (M negativo)] (calcolata per N trascurabile)
S,j = 1737980.8 kg*m/rad (rigidezza del giunto)
[Rigidezza rotazionale (M positivo)] (calcolata per N trascurabile)
S,j = 1737980.8 kg*m/rad (rigidezza del giunto)
[Resistenza assiale profilo]
Npl,Rd = 194092.5 kg |N| <= 0.05 Npl,Rd (trascurabile)
[Verifica a presso-tensoflessione del giunto]
I.R. = 0.49
[Verifica a taglio del nodo]
F,v,Rd = 6222.4 kg (resistenza dei bulloni a taglio)
F,t,Rd = 9333.6 kg (resistenza dei bulloni a trazione)
I.R. = 0.33
[Verifica di rifollamento]
F,b,Rd = 16962.3 kg (resistenza a rifollamento)
I.R. = 0.01
[Verifica saldatura profilo]
Saldatura a cordone d'angolo (doppia sull'ala): verificata
Lunghezza1: 170 (mm) Altezza di gola1: 9 (mm)
Lunghezza2: 299 (mm) Altezza di gola2: 6 (mm)
Lunghezza3: 63 (mm) Altezza di gola3: 9 (mm)
Sigma perp. = 226.8 kg/cm² Tens par. = 60.8 kg/cm²
I.R. = 0.12





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U N I O N E T R A V E - T R A V E

N O D O I N C A S T R O : U n i o n e f l a n g i a t a

Descrizione: Nodo Piastra P2

Trave principale:Gruppo = 2 Elemento = 27
Trave secondaria:Gruppo = 2 Elemento = 21 S 275 (Fe 430)
[Progetto] Banca n. 0: Banche generali AMV
N = -2075.00 kg T (taglio massimo) = 352.60 kg Mmax pos.= 1652.00 kg*m M torcente = 0.00 kg*m
Per le sollecitazioni di ogni c.c. riferirsi ai risultati dell'analisi strutturale.
[Verifica flangia] (S 275 (Fe 430))
Flangia tipo 1: 200x250x10 (mm) A = 100 B = 150 C = 20
n. 0 file intermedie di bulloni per infittimento
Diam. bulloni M18 Incremento foro: 2.0 (mm) (Classe 8.8)
[Resistenza zona a taglio]
F,Rd = 30648.9 kg (resistenza anima colonna)
[Resistenza zona a compressione]
F,Rd = 15917.4 kg (resistenza anima colonna)
[Resistenza zona a trazione]
[Seconda fila di bulloni]
F,Rd = 13252.0 kg (resistenza ala colonna)
F,Rd = 18667.2 kg (resistenza flangia di estremità)
F,Rd = 23151.7 kg (resistenza anima colonna)
F,t2,Rd,ult = 13252.0 kg (resistenza efficace seconda fila)
[Momento resistente]
Mj,Rd = 3245.4 kg*m
[Rigidezza rotazionale] (calcolata per N trascurabile)
S,j = 724734.3 kg*m/rad (rigidezza del giunto)
[Resistenza assiale profilo]
Npl,Rd = 122542.6 kg |N| <= 0.05 Npl,Rd (trascurabile)
[Verifica a presso-tensoflessione del giunto]
I.R. = 0.51
[Verifica a taglio del nodo]
F,v,Rd = 6222.4 kg (resistenza dei bulloni a taglio)
F,t,Rd = 9333.6 kg (resistenza dei bulloni a trazione)
F,b,Rd = 19481.3 kg (verifica di rifollamento)
I.R. = 0.22
[Verifica saldatura profilo]
Saldatura a cordone d'angolo (doppia sull'ala): verificata
Lunghezza1: 135 (mm) Altezza di gola1: 7 (mm)
Lunghezza2: 220 (mm) Altezza di gola2: 5 (mm)
Lunghezza3: 49 (mm) Altezza di gola3: 7 (mm)
Sigma perp. = 386.4 kg/cm² Tens par. = 17.4 kg/cm²
I.R. = 0.11

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N O D I D I T R A V A T U R A

Descrizione: NODO ATTACCO ARCARECCIO

Profilo: **TUB. Sp 4 mm** (Singolo) S 235 (Fe 360)
[Progetto] Banca n. 0: Banche generali AMV
N = 453.00 kg
[Verifica Bulloni] (Classe 8.8)
N. bulloni 1 da M10 Inc.Foro=1.0
Distanza bordo = 40 Interasse bulloni = 50 (mm)
Spessore fazzoletto = 3 (mm)
Asse truschino = 0 (mm)
[Verifica di resistenza del profilo] (S 235 (Fe 360))
Verifica sezione lorda: N pl,Rd = 6753.1 kg I.R. = 0.07
Verifica sezione netta: N pl,Rd = -968.8 kg I.R. = 0.47
[Verifica di resistenza del fazzoletto] (S 235 (Fe 360))
Verifica sezione netta: N pl,Rd = 4116.1 kg I.R. = 0.11
[Verifica di resistenza del giunto]
Resistenza a taglio dei bulloni: F v,Rd = 3091.4 kg I.R. = 0.15
Rifollamento del fazzoletto: F b,Rd = 2668.9 kg I.R. = 0.17
Rifollamento dell'angolare: F b,Rd = -1734.8 kg I.R. = 0.26

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N O D I D I T R A V A T U R A

Descrizione: PIASTRA CONTROVENTO PARETE

Profilo: **PIASTRA Sp 8** (Singolo) S 235 (Fe 360)
[Progetto] Banca n. 0: Banche generali AMV
N = 1485.00 kg
[Verifica Bulloni] (Classe 8.8)
N. bulloni 1 da M16 Inc.Foro=1.5
Distanza bordo = 30 Interasse bulloni = 50 (mm)
Spessore fazzoletto = 8 (mm)
Asse truschino = 0 (mm)
[Verifica di resistenza del profilo] S 235 (Fe 360)
Verifica sezione lorda: N pl,Rd = 28061.7 kg I.R. = 0.05
Verifica sezione netta: N pl,Rd = -4110.1 kg I.R. = 0.36
[Verifica di resistenza del fazzoletto] S 235 (Fe 360)
Verifica sezione netta: N pl,Rd = 17585.6 kg I.R. = 0.08
[Verifica di resistenza del giunto]
Resistenza a taglio dei bulloni: F v,Rd = 6222.4 kg I.R. = 0.24
Rifollamento del fazzoletto: F b,Rd = 5368.3 kg I.R. = 0.28
Rifollamento dell'angolare: F b,Rd = -3489.4 kg I.R. = 0.43

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N O D I D I T R A V A T U R A

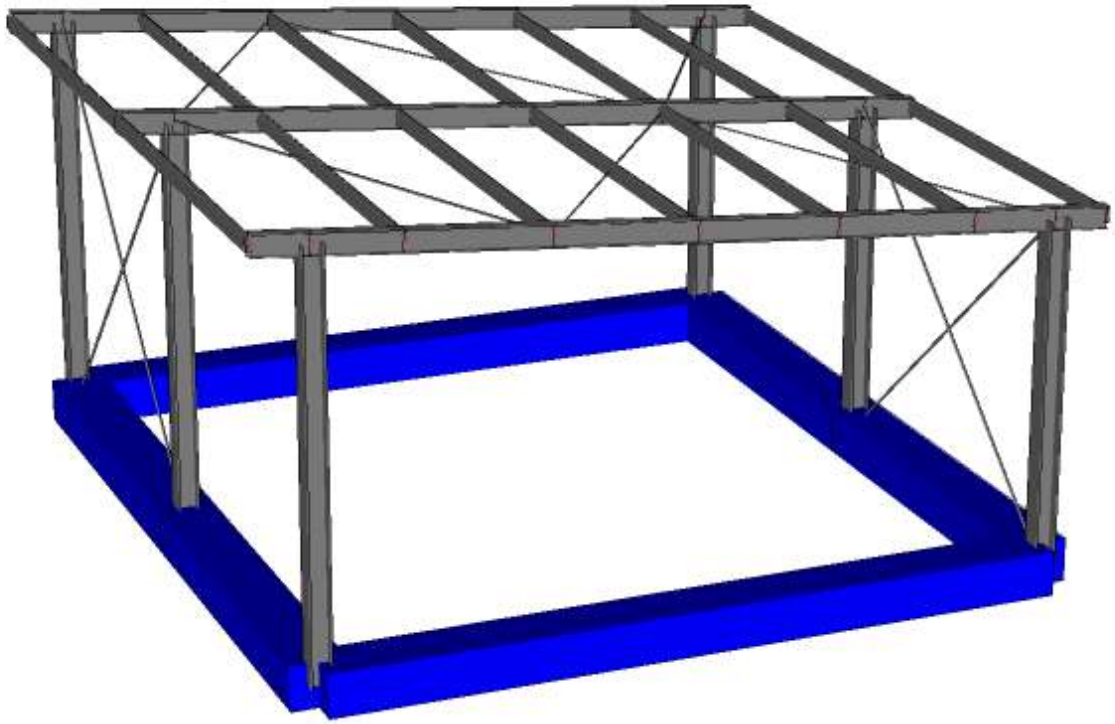
Descrizione: NODO PIASTRA CONTROVENTO FALDA

Profilo: **PIASTRA Sp 6** (Singolo) S 235 (Fe 360)
[Progetto] Banca n. 0: Banche generali AMV
N = 605.00 kg
[Verifica Bulloni] (Classe 8.8)
N. bulloni 1 da M12 Inc.Foro=1.0
Distanza bordo = 30 Interasse bulloni = 30 (mm)
Spessore fazzoletto = 6 (mm)
Asse truschino = 0 (mm)
[Verifica di resistenza del profilo] S 235 (Fe 360)
Verifica sezione lorda: N pl,Rd = 21331.5 kg I.R. = 0.03
Verifica sezione netta: N pl,Rd = -2289.9 kg I.R. = 0.26
[Verifica di resistenza del fazzoletto] S 235 (Fe 360)
Verifica sezione netta: N pl,Rd = 13981.8 kg I.R. = 0.04
[Verifica di resistenza del giunto]
Resistenza a taglio dei bulloni: F v,Rd = 3329.2 kg I.R. = 0.18
Rifollamento del fazzoletto: F b,Rd = 2743.8 kg I.R. = 0.22
Rifollamento dell'angolare: F b,Rd = -1783.5 kg I.R. = 0.34

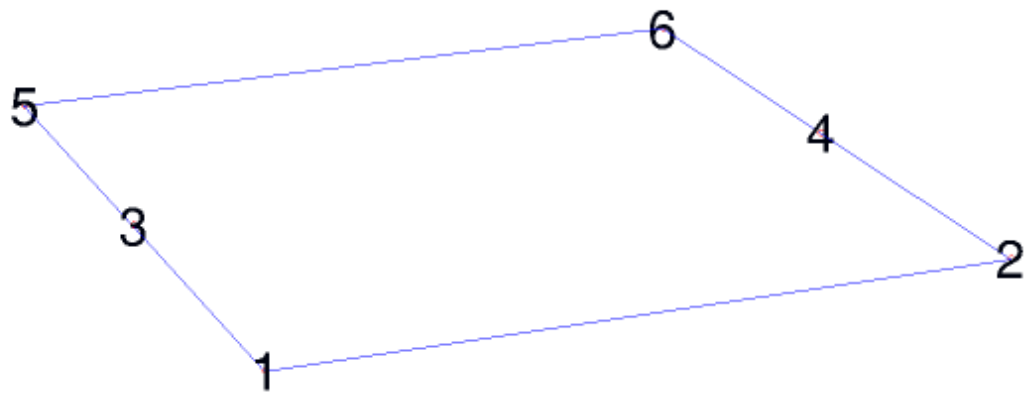
RISERVETTA

Tabulati e Verifiche
Struttura in Fondazione

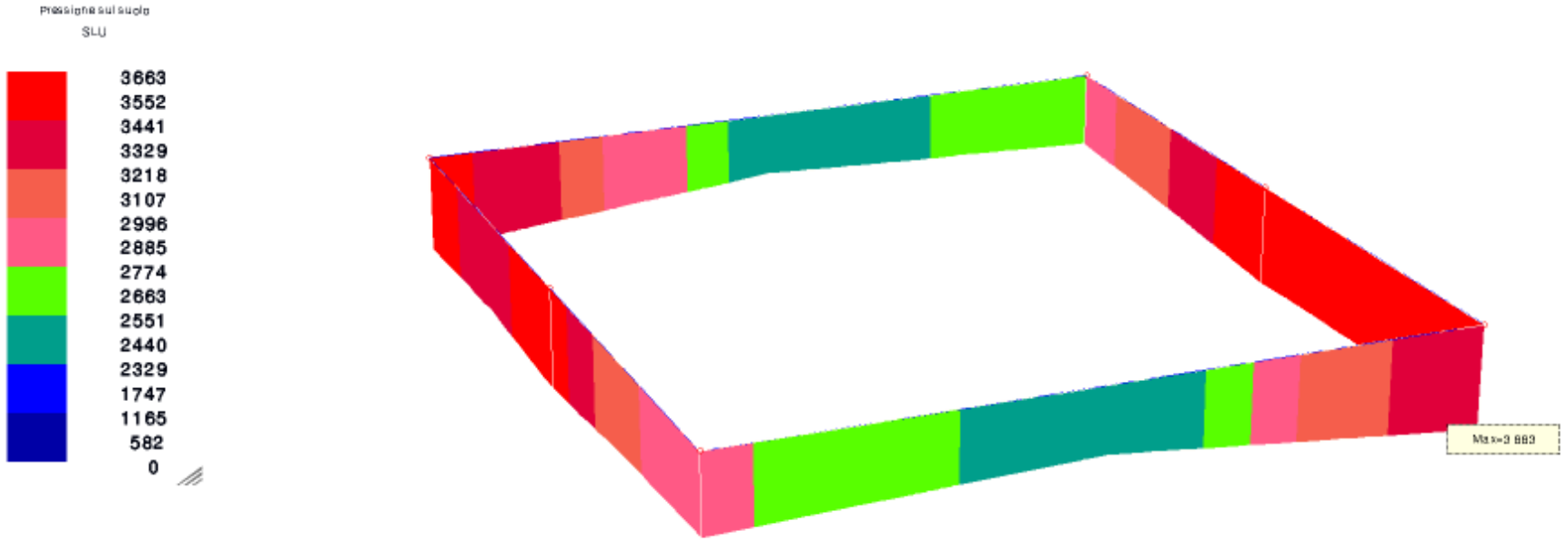
SCHEMA STRUTTURA FONDAZIONE 3D



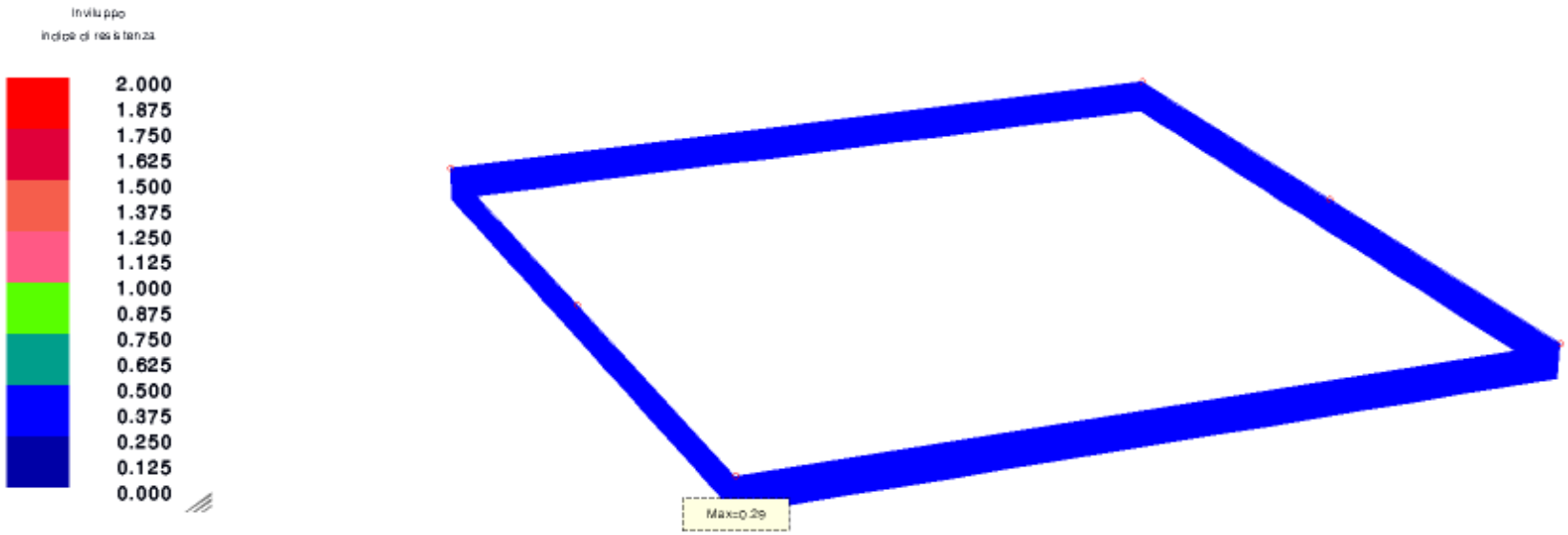
NUMERAZIONE NODI FONDAZIONE



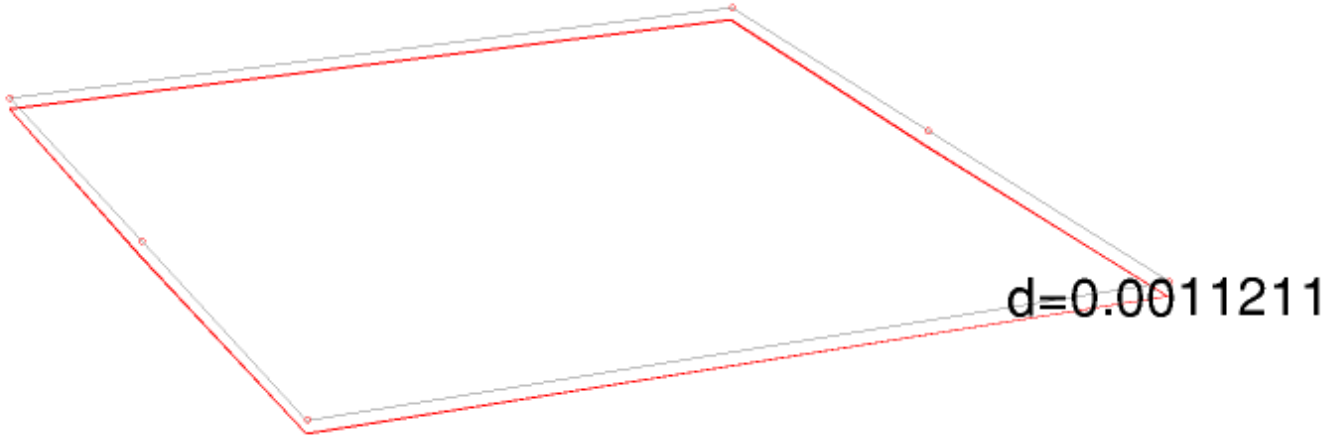
PRESSIONE AL SUOLO



INDICI DI RESISTENZA



CEDIMENTI (MAX 0,11 cm)



TABULATO DI CALCOLO E VERIFICHE
OPERE DI FONDAZIONE

STAMPA DEI DATI DI PROGETTO

INTESTAZIONE E DATI CARATTERISTICI DELLA STRUTTURA

Nome dell'archivio di lavoro	**RIS-SLV**
Intestazione del lavoro	**STRUTTURA IN ACCIAIO**
Tipo di struttura	Nello Spazio
Tipo di analisi	Statica e Dinamica
Tipo di soluzione	Lineare
Unita' di misura delle forze	kg
Unita' di misura delle lunghezze	m
Normativa	NTC-2018

NORMATIVA

Vita nominale costruzione	50 anni
Classe d'uso costruzione	IV
Vita di riferimento	100 anni
Luogo	Reggio di Calabria - (RC)
Longitudine (ED50)	15.654
Latitudine (ED50)	38.12
Categoria del suolo	B
Fattore topografico	1

PARAMETRI SISMICI

	TR	ag/g	FO	TC*	CC	Ss	Pga (ag/g*S)
SLO	60	0.099	2.28	0.30	1.40	1.20	0.119
SLD	101	0.130	2.30	0.31	1.39	1.20	0.156
SLV	949	0.358	2.47	0.39	1.33	1.05	0.375

TR utilizzato nel progetto	949 anni
Comportamento strutturale	NON Dissipativo

STATO LIMITE ULTIMO

Coefficiente di smorzamento	5%
Eccentricita' accidentale	0%
Numero di frequenze	30
Fattore q di struttura per sisma orizzontale	qor=1
Periodo proprio T1 in direzione X	0.000
Periodo proprio T1 in direzione Y	0.000

PARAMETRI SISMICI

Angolo del sisma nel piano orizzontale	0
Sisma verticale	Presente
Fattore di struttura qv per sisma verticale	1.5
Combinazione dei modi	SRSS
Combinazione componenti azioni sismiche	NTC - Eurocodice 8
λ	0.3
μ	0.3

RIEPILOGO DELLE SEZIONI UTILIZZATE NEL MODELLO STRUTTURALE

SEZIONE RETTANGOLARE

Codice	Base	H
7	0.500	0.400

SEZIONI CIRCOLARI PIENE

Codice	Diametro
5	0.020
6	0.014

SEZIONI A PROFILO SEMPLICE

Codice	Codice sezione	Asse Y capovolto
1	HEA 200	No
2	IPE 200	No
4	IPE 100	No

Codice	Codice famiglia	Codice profilo	Asse Y capovolto
3	RETTANGOLARI	120x 60x 4.0	

LISTA MATERIALI UTILIZZATI

Codice	Descrizione	Mod. elast.	Coef. Poisson	Peso unit.	Dil. term.	Aliq. inerz.	Rigid. taglio	Rigid. fless.
1	Acciaio	+2.10e+010	0.300	7850.00000	+1.20e-005	1.000	+1.00e+000	+1.00e+000
2	Calcestruzzo	+2.84e+009	0.120	2500.00000	+1.00e-005	1.000	+1.00e+000	+1.00e+000

GRUPPI DELLA STRUTTURA

ELEMENTO FINITO: TRAVE

Numero gruppo	Descrizione gruppo	
1	COLONNE	
2	TRAVI PRINCIPALI	
3	ARCARECCI	
4	CONTROVENTI	

ELEMENTO FINITO: TRAVE DI FONDAZIONE

Numero gruppo	Descrizione gruppo	
1	TRAVI DI FONDAZIONE	

GRUPPI ELEMENTO FINITO TRAVE DI FONDAZIONE

GRUPPO NUMERO: 1 - DESCRIZIONE: TRAVI DI FONDAZIONE

	Nodi			Connessioni						
Asta	**I**	**J**	**K**	**Nodo I**	**Nodo J**	**Mat.**	**Sez.**	**car.suolo**	**larg.impronta**	**suddivisioni**
1	1	3	0	Rigida	Rigida	2	7	+2.00e+006	0.500	2
2	3	5	0	Rigida	Rigida	2	7	+2.00e+006	0.500	2
3	2	4	0	Rigida	Rigida	2	7	+2.00e+006	0.500	2
4	4	6	0	Rigida	Rigida	2	7	+2.00e+006	0.500	2
5	5	6	0	Rigida	Rigida	2	7	+2.00e+006	0.500	2
6	1	2	0	Rigida	Rigida	2	7	+2.00e+006	0.500	2

COMBINAZIONI DI CARICO

NORMATIVA: NORME TECNICHE PER LE COSTRUZIONI 2018 ITALIA

COMBINAZIONI PER LE VERIFICHE ALLO STATO LIMITE ULTIMO

Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
1	Statica 1 (neve Prevalente e vento dir. X)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	1.500
			Variabile: Vento	Condizione 3	0.900
			Variabile: Vento	Condizione 4	0.000
2	Statica 2 (neve Prevalente e vento dir. Y)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	1.500
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	0.900
3	Statica 3 (Vento dir. X Prevalente e Neve)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	0.750
			Variabile: Vento	Condizione 3	1.500
			Variabile: Vento	Condizione 4	0.000
4	Statica 4 (Vento dir. Y Prevalente e Neve)	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	0.750
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	1.500
5	Sismica (Dinamica)	Azione sismica: Presente	Permanente: Peso Proprio	Condizione peso proprio	1.300
			Permanente: Permanente portato	Condizione 1	1.300
			Variabile: Neve	Condizione 2	0.200
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	0.000

COMBINAZIONI PER LE VERIFICHE ALLO STATO LIMITE DI DANNO

Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
6	Rara	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	1.000
			Variabile: Vento	Condizione 3	0.600
			Variabile: Vento	Condizione 4	0.600
7	Frequente	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	0.200
			Variabile: Vento	Condizione 3	0.000
			Variabile: Vento	Condizione 4	0.000
8	Quasi Permanente	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	0.200
9	Sismica	Azione sismica: Presente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	0.200

FORZE MOMENTI PER GRUPPI TRAVE DI FONDAZIONE

GRUPPO NUMERO: 1 - DESCRIZIONE: TRAVI DI FONDAZIONE

TRAVE NUMERO: 1 - LUNGHEZZA: 3.65

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-9.704e+001	+1.313e+002	+7.323e+001	-9.711e-004	-8.385e-005	-1.121e-004	1942.17993
0.000	2	-2.909e+002	+3.587e+002	-2.469e+002	-1.007e-003	-7.843e-005	-2.260e-004	2013.59998
0.000	3	-2.017e+001	-1.072e+002	+9.349e+001	-8.242e-004	-6.926e-005	+3.021e-005	1648.47998
0.000	4	-3.432e+002	+2.717e+002	-4.401e+002	-8.837e-004	-6.022e-005	-1.597e-004	1767.41992
0.000	5	-9.582e+001	+1.442e+002	+9.138e+000	-8.669e-004	-2.091e-005	-1.174e-004	1733.78003
0.000	10	-7.593e+001	+1.175e+002	+7.671e+000	-6.730e-004	-1.770e-005	-9.427e-005	1346.02002
1.825	1	+8.198e+002	+1.313e+002	+2.503e+002	-1.152e-003	-1.228e-004	-1.466e-004	2304.80005
1.825	2	+5.888e+002	+3.587e+002	+2.839e+002	-1.132e-003	-8.288e-005	-3.203e-004	2264.00000
1.825	3	+5.706e+002	-1.072e+002	+1.303e+002	-9.737e-004	-9.623e-005	+5.840e-005	1947.43994
1.825	4	-3.432e+002	+2.717e+002	+1.862e+002	-9.398e-004	-2.963e-005	-2.311e-004	1879.54004
1.825	5	+3.952e+002	+1.442e+002	+1.840e+002	-9.191e-004	-4.418e-005	-1.553e-004	1838.09998
1.825	10	+3.192e+002	+1.175e+002	+1.462e+002	-7.165e-004	-3.624e-005	-1.252e-004	1433.00000
3.650	1	-8.198e+002	-1.313e+002	+1.246e+003	-1.329e-003	-2.902e-006	-1.811e-004	2658.00000
3.650	2	-5.888e+002	-3.587e+002	+7.907e+002	-1.272e-003	-2.182e-005	-4.146e-004	2544.00000
3.650	3	-5.706e+002	+1.072e+002	+9.111e+002	-1.107e-003	-2.154e-006	+8.660e-005	2213.20020
3.650	4	-1.856e+002	-2.717e+002	+1.526e+002	-1.012e-003	-3.368e-005	-3.026e-004	2023.20007
3.650	5	-3.952e+002	-1.442e+002	+5.372e+002	-9.907e-004	-1.627e-006	-1.933e-004	1981.37988
3.650	10	-3.192e+002	-1.175e+002	+4.363e+002	-7.749e-004	-1.298e-006	-1.561e-004	1549.71997

TRAVE NUMERO: 2 - LUNGHEZZA: 3.65

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-8.139e+002	-1.023e+002	-1.228e+003	-1.329e-003	-2.902e-006	-1.811e-004	2658.00000
0.000	2	-7.929e+002	-2.660e+002	-9.816e+002	-1.272e-003	-2.182e-005	-4.146e-004	2544.00000
0.000	3	-5.654e+002	+1.271e+002	-8.976e+002	-1.107e-003	-2.154e-006	+8.660e-005	2213.20020
0.000	4	-5.305e+002	-1.457e+002	-4.868e+002	-1.012e-003	-3.368e-005	-3.026e-004	2023.20007
0.000	5	-3.947e+002	-1.316e+002	-5.327e+002	-9.907e-004	-1.627e-006	-1.933e-004	1981.37988
0.000	10	-3.187e+002	-1.072e+002	-4.325e+002	-7.749e-004	-1.298e-006	-1.561e-004	1549.71997
1.825	1	-8.139e+002	-1.023e+002	+2.572e+002	-1.166e-003	+1.141e-004	-1.542e-004	2332.19995
1.825	2	-7.929e+002	-2.660e+002	+4.655e+002	-1.195e-003	+4.036e-005	-3.447e-004	2390.40015
1.825	3	-5.654e+002	+1.271e+002	+1.342e+002	-9.839e-004	+8.983e-005	+5.319e-005	1967.78003
1.825	4	-5.305e+002	-1.457e+002	+4.813e+002	-1.032e-003	-3.302e-005	-2.643e-004	2064.79980
1.825	5	-3.947e+002	-1.316e+002	+1.876e+002	-9.259e-004	+3.995e-005	-1.587e-004	1851.82007
1.825	10	-3.187e+002	-1.072e+002	+1.492e+002	-7.220e-004	+3.283e-005	-1.279e-004	1444.04004
3.650	1	-1.280e+002	+1.023e+002	-2.356e+001	-9.985e-004	+8.024e-005	-1.273e-004	1996.98010
3.650	2	-2.021e+002	+2.660e+002	-9.677e+001	-1.199e-003	-2.739e-005	-2.747e-004	2397.20020
3.650	3	-4.397e+001	-1.271e+002	-5.395e+001	-8.440e-004	+6.716e-005	+1.977e-005	1687.91992
3.650	4	-1.673e+002	+1.457e+002	-1.760e+002	-1.178e-003	-1.122e-004	-2.259e-004	2355.00000
3.650	5	-1.088e+002	+1.316e+002	+1.096e+001	-8.807e-004	+1.866e-005	-1.240e-004	1761.30005
3.650	10	-8.648e+001	+1.072e+002	+8.641e+000	-6.841e-004	+1.590e-005	-9.968e-005	1368.16003

TRAVE NUMERO: 3 - LUNGHEZZA: 3.65

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-2.233e+002	-4.147e+002	-3.282e+001	-1.121e-003	-5.240e-005	+3.302e-004	2242.20020
0.000	2	-1.477e+002	-2.296e+002	-7.530e+001	-9.480e-004	-1.389e-004	+1.737e-004	1896.05994
0.000	3	-2.264e+002	-4.913e+002	-6.393e+001	-1.067e-003	-1.033e-005	+3.614e-004	2134.59985
0.000	4	-1.004e+002	-1.827e+002	-1.347e+002	-7.789e-004	-1.545e-004	+1.005e-004	1557.79993
0.000	5	-9.363e+001	-8.623e+001	+1.618e+000	-8.649e-004	-2.400e-005	+1.012e-004	1729.70007
0.000	10	-7.440e+001	-7.039e+001	+1.477e+000	-6.717e-004	-2.020e-005	+8.130e-005	1343.36011
1.825	1	+8.488e+002	-4.147e+002	+3.746e+002	-1.237e-003	-9.358e-005	+4.392e-004	2474.80005
1.825	2	+8.624e+002	-2.296e+002	+1.942e+002	-1.203e-003	-1.533e-004	+2.340e-004	2407.00000
1.825	3	+5.957e+002	-4.913e+002	+3.492e+002	-1.100e-003	-4.469e-005	+4.906e-004	2200.80005
1.825	4	+6.183e+002	-1.827e+002	+4.854e+001	-1.044e-003	-1.441e-004	+1.486e-004	2087.60010
1.825	5	+4.004e+002	-8.623e+001	+1.725e+002	-9.207e-004	-4.498e-005	+1.238e-004	1841.45996
1.825	10	+3.238e+002	-7.039e+001	+1.373e+002	-7.182e-004	-3.692e-005	+9.981e-005	1436.38000
3.650	1	-8.488e+002	+4.147e+002	+1.174e+003	-1.384e-003	+2.792e-006	+5.483e-004	2768.79980
3.650	2	-8.624e+002	+2.296e+002	+1.380e+003	-1.418e-003	-1.042e-005	+2.944e-004	2835.80005
3.650	3	-5.957e+002	+4.913e+002	+7.380e+002	-1.184e-003	+2.161e-006	+6.198e-004	2368.40015
3.650	4	-6.183e+002	+1.827e+002	+1.080e+003	-1.240e-003	-1.987e-005	+1.966e-004	2480.40015
3.650	5	-4.004e+002	+8.623e+001	+5.583e+002	-9.906e-004	+1.508e-006	+1.465e-004	1981.28003
3.650	10	-3.238e+002	+7.039e+001	+4.537e+002	-7.752e-004	+1.203e-006	+1.183e-004	1550.47998

TRAVE NUMERO: 4 - LUNGHEZZA: 3.65

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-8.527e+002	+4.509e+002	-1.192e+003	-1.384e-003	+2.792e-006	+5.483e-004	2768.79980
0.000	2	-1.031e+003	+2.090e+002	-1.553e+003	-1.418e-003	-1.042e-005	+2.944e-004	2835.80005
0.000	3	-5.951e+002	+5.159e+002	-7.453e+002	-1.184e-003	+2.161e-006	+6.198e-004	2368.40015

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	4	-8.914e+002	+1.128e+002	-1.346e+003	-1.240e-003	-1.987e-005	+1.966e-004	2480.40015
0.000	5	-4.021e+002	+1.015e+002	-5.655e+002	-9.906e-004	+1.508e-006	+1.465e-004	1981.28003
0.000	10	-3.252e+002	+8.287e+001	-4.597e+002	-7.752e-004	+1.203e-006	+1.183e-004	1550.47998
1.825	1	-8.527e+002	+4.509e+002	+3.640e+002	-1.224e-003	+1.026e-004	+4.297e-004	2447.60010
1.825	2	-1.031e+003	+2.090e+002	+3.281e+002	-1.225e-003	+1.371e-004	+2.395e-004	2449.00000
1.825	3	-5.951e+002	+5.159e+002	+3.408e+002	-1.091e-003	+5.090e-005	+4.841e-004	2181.80005
1.825	4	-8.914e+002	+1.128e+002	+2.809e+002	-1.092e-003	+1.085e-004	+1.670e-004	2184.00000
1.825	5	-4.021e+002	+1.015e+002	+1.683e+002	-9.138e-004	+4.937e-005	+1.198e-004	1827.69995
1.825	10	-3.252e+002	+8.287e+001	+1.339e+002	-7.127e-004	+4.046e-005	+9.653e-005	1425.30005
3.650	1	-1.945e+002	-4.509e+002	-8.957e+000	-1.092e-003	+5.765e-005	+3.112e-004	2184.60010
3.650	2	-1.797e+001	-2.090e+002	-2.953e+002	-1.044e-003	+6.201e-005	+1.845e-004	2088.40015
3.650	3	-2.095e+002	-5.159e+002	+4.162e+001	-1.047e-003	+1.486e-005	+3.485e-004	2093.40015
3.650	4	+8.476e+001	-1.128e+002	-4.356e+002	-9.665e-004	+2.213e-005	+1.373e-004	1932.90002
3.650	5	-7.942e+001	-1.015e+002	-2.338e+001	-8.508e-004	+2.627e-005	+9.315e-005	1701.66003
3.650	10	-6.285e+001	-8.287e+001	-1.915e+001	-6.604e-004	+2.203e-005	+7.474e-005	1320.76001

TRAVE NUMERO: 5 - LUNGHEZZA: 6.70

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-1.837e+002	+2.340e+001	-7.383e+001	-9.985e-004	+8.024e-005	-1.273e-004	1996.98010
0.000	2	-4.031e+001	-9.261e+001	+5.257e+002	-1.199e-003	-2.739e-005	-2.747e-004	2397.20020
0.000	3	-3.281e+002	+5.418e+001	-6.947e+002	-8.440e-004	+6.716e-005	+1.977e-005	1687.91992
0.000	4	-8.906e+001	-1.392e+002	+3.044e+002	-1.178e-003	-1.122e-004	-2.259e-004	2355.00000
0.000	5	-1.090e+001	-7.879e+000	+2.642e+002	-8.807e-004	+1.866e-005	-1.240e-004	1761.30005
0.000	10	-7.555e+000	-6.344e+000	+2.145e+002	-6.841e-004	+1.590e-005	-9.968e-005	1368.16003
3.350	1	-1.837e+002	+2.340e+001	+5.416e+002	-6.664e-004	+6.894e-005	-2.385e-005	1332.76001
3.350	2	+1.288e+002	-9.261e+001	+6.607e+002	-7.005e-004	+1.731e-005	-1.234e-005	1400.96008
3.350	3	-3.281e+002	+5.418e+001	+4.043e+002	-6.617e-004	+4.101e-005	-4.448e-005	1323.33997
3.350	4	+1.404e+002	-1.392e+002	+6.028e+002	-7.185e-004	-4.505e-005	-2.529e-005	1437.00000
3.350	5	+5.502e+001	-7.879e+000	+3.007e+002	-6.697e-004	+2.247e-005	+8.927e-007	1339.35999
3.350	10	+4.339e+001	-6.344e+000	+2.398e+002	-5.152e-004	+1.896e-005	+8.045e-007	1030.41992
6.700	1	+1.288e+002	-2.340e+001	-9.732e+002	-1.092e-003	+5.765e-005	+3.112e-004	2184.60010
6.700	2	-1.288e+002	+9.261e+001	-2.293e+002	-1.044e-003	+6.201e-005	+1.845e-004	2088.40015
6.700	3	+2.890e+002	-5.418e+001	-1.372e+003	-1.047e-003	+1.486e-005	+3.485e-004	2093.40015
6.700	4	-1.404e+002	+1.392e+002	-1.324e+002	-9.665e-004	+2.213e-005	+1.373e-004	1932.90002
6.700	5	-5.502e+001	+7.879e+000	-1.164e+002	-8.508e-004	+2.627e-005	+9.315e-005	1701.66003
6.700	10	-4.339e+001	+6.344e+000	-9.446e+001	-6.604e-004	+2.203e-005	+7.474e-005	1320.76001

TRAVE NUMERO: 6 - LUNGHEZZA: 6.70

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-1.989e+002	-3.258e+001	-1.243e+002	-9.711e-004	-8.385e-005	-1.121e-004	1942.17993
0.000	2	+4.199e+001	+6.266e+001	+5.805e+002	-1.007e-003	-7.843e-005	-2.260e-004	2013.59998
0.000	3	-3.378e+002	-6.105e+001	-7.273e+002	-8.242e-004	-6.926e-005	+3.021e-005	1648.47998
0.000	4	+6.358e+001	+9.768e+001	+4.474e+002	-8.837e-004	-6.022e-005	-1.597e-004	1767.41992
0.000	5	-1.630e+001	+3.203e+000	+2.460e+002	-8.669e-004	-2.091e-005	-1.174e-004	1733.78003
0.000	10	-1.204e+001	+2.596e+000	+1.994e+002	-6.730e-004	-1.770e-005	-9.427e-005	1346.02002
3.350	1	-1.989e+002	-3.258e+001	+5.418e+002	-6.649e-004	-6.813e-005	-1.972e-005	1329.90002
3.350	2	+4.199e+001	+6.266e+001	+4.398e+002	-6.457e-004	-1.087e-004	-3.238e-007	1291.47998
3.350	3	-3.378e+002	-6.105e+001	+4.044e+002	-6.607e-004	-3.979e-005	-4.120e-005	1321.45996
3.350	4	+6.358e+001	+9.768e+001	+2.344e+002	-6.287e-004	-1.074e-004	-8.879e-006	1257.42004
3.350	5	+4.761e+001	+3.203e+000	+3.006e+002	-6.691e-004	-2.246e-005	+3.489e-006	1338.16003
3.350	10	+3.726e+001	+2.596e+000	+2.397e+002	-5.147e-004	-1.895e-005	+2.855e-006	1029.43994
6.700	1	+1.488e+002	+3.258e+001	-1.040e+003	-1.121e-003	-5.240e-005	+3.302e-004	2242.20020
6.700	2	-2.773e+001	-6.266e+001	-3.469e+002	-9.480e-004	-1.389e-004	+1.737e-004	1896.05994
6.700	3	+3.019e+002	+6.105e+001	-1.416e+003	-1.067e-003	-1.033e-005	+3.614e-004	2134.59985
6.700	4	+7.735e+000	-9.768e+001	-2.603e+002	-7.789e-004	-1.545e-004	+1.005e-004	1557.79993
6.700	5	-4.761e+001	-3.203e+000	-1.411e+002	-8.649e-004	-2.400e-005	+1.012e-004	1729.70007
6.700	10	-3.726e+001	-2.596e+000	-1.149e+002	-6.717e-004	-2.020e-005	+8.130e-005	1343.36011

PRESSIONE MASSIMA NEL GRUPPO

Numero trave	Pressione	Distanza
3	2835.800	3.650

PRESSIONE MASSIMA SUL TERRENO

Numero trave	Pressione	Pressione sul terreno
3	2835 kg/mq	2835 / 10000 = 0.29 kg/cmq

VERIFICHE E CALCOLO ARMATURE

(verifiche di resistenza degli elementi strutturali)

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Lavoro: **RIS-SLV** Intestazione lavoro: **STRUTTURA IN ACCIAIO**
Elemento: **TRAVE DI FONDAZIONE** Gruppo: **1** Tabella: **Tabella fondazioni**
Descrizione: **TRAVI DI FONDAZIONE**
Spunt. I **30.0** cm Spunt. J **30.0** cm
Rck: **300.00** kg/cm² fyk: **4580.0** kg/cm² Copriferro: **3.0** cm
Verifica in ottemperanza alle NTC2018 x/d <= **0.30**
Diametro staffe: **8** mm Numero braccia: **2**

ASTA NUM. 1 NI 1 NF 3 SEZ. Rp B= 0.500 H= 0.400 (trave di fondazione)

armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	x/d	Indice resistenza Fx,M	Bielle	V,Mx	aswta	aswto	PASSO
	cm		kg			kg*m				cmq						cmq/m		cm
1	0	-0	-97	0	0	0	-114	2.26	2.26	4.52	4.52	0.11	0.02	0.00	0.01	0.00	0.00	29.6
2	0	-0	-291	0	0	0	247	2.26	2.26	4.52	4.52	0.11	0.04	0.01	0.04	0.00	0.00	29.6
3	0	-0	-20	0	0	0	-102	2.26	2.26	4.52	4.52	0.11	0.02	0.00	0.00	0.00	0.00	29.6
4	0	-0	-343	0	0	0	440	2.26	2.26	4.52	4.52	0.11	0.07	0.01	0.05	0.00	0.00	29.6
5A	0	-0	-543	0	0	0	407	2.26	2.26	4.52	4.52	0.22	0.07	0.01	0.07	0.00	0.00	29.6
5B	0	-0	351	0	0	0	-572	2.26	2.26	4.52	4.52	0.22	0.09	0.01	0.05	0.00	0.00	29.6
5I	0	-0	-574	0	0	0	568	2.26	2.26	4.52	4.52	0.22	0.09	0.01	0.08	0.00	0.00	29.6
5J	0	-0	383	0	0	0	-745	2.26	2.26	4.52	4.52	0.22	0.12	0.01	0.05	0.00	0.00	29.6
5Q	0	-0	-451	0	0	0	357	2.26	2.26	4.52	4.52	0.22	0.06	0.01	0.06	0.00	0.00	29.6
5R	0	-0	260	0	0	0	-483	2.26	2.26	4.52	4.52	0.22	0.08	0.01	0.03	0.00	0.00	29.6
apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6																		
1	91	-0	-97	0	0	0	-202	2.26	2.26	4.52	4.52	0.11	0.03	0.00	0.01	0.00	0.00	29.6
2	91	-0	-291	0	0	0	-140	2.26	2.26	4.52	4.52	0.11	0.02	0.01	0.04	0.00	0.00	29.6
3	91	-0	-20	0	0	0	-120	2.26	2.26	4.52	4.52	0.11	0.02	0.00	0.00	0.00	0.00	29.6
4	91	-0	-343	0	0	0	270	2.26	2.26	4.52	4.52	0.11	0.04	0.01	0.05	0.00	0.00	29.6
5A	91	-0	-543	0	0	0	-324	2.26	2.26	4.52	4.52	0.22	0.05	0.01	0.07	0.00	0.00	29.6
5B	91	-0	351	0	0	0	-242	2.26	2.26	4.52	4.52	0.22	0.04	0.01	0.05	0.00	0.00	29.6
5I	91	-0	-574	0	0	0	267	2.26	2.26	4.52	4.52	0.22	0.04	0.01	0.08	0.00	0.00	29.6
5J	91	-0	383	0	0	0	-380	2.26	2.26	4.52	4.52	0.22	0.06	0.01	0.05	0.00	0.00	29.6
5Q	91	-0	-451	0	0	0	-268	2.26	2.26	4.52	4.52	0.22	0.04	0.01	0.06	0.00	0.00	29.6
5R	91	-0	260	0	0	0	-221	2.26	2.26	4.52	4.52	0.22	0.04	0.01	0.03	0.00	0.00	29.6
apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6																		
1	183	-0	820	0	0	0	-250	2.26	2.26	4.52	4.52	0.11	0.04	0.02	0.11	0.00	0.00	29.6
2	183	-0	589	0	0	0	-284	2.26	2.26	4.52	4.52	0.11	0.04	0.01	0.08	0.00	0.00	29.6
3	183	-0	571	0	0	0	-130	2.26	2.26	4.52	4.52	0.11	0.02	0.01	0.08	0.00	0.00	29.6
4	183	-0	-343	0	0	0	-186	2.26	2.26	4.52	4.52	0.11	0.03	0.01	0.05	0.00	0.00	29.6
5A	183	-0	-543	0	0	0	-829	2.26	2.26	4.52	4.52	0.22	0.13	0.01	0.07	0.00	0.00	29.6
5B	183	-0	766	0	0	0	-922	2.26	2.26	4.52	4.52	0.22	0.15	0.02	0.10	0.00	0.00	29.6
5I	183	-0	-574	0	0	0	-752	2.26	2.26	4.52	4.52	0.22	0.12	0.01	0.08	0.00	0.00	29.6
5J	183	-0	1340	0	0	0	-1070	2.26	2.26	4.52	4.52	0.22	0.17	0.03	0.18	0.00	0.00	29.6
5Q	183	-0	-451	0	0	0	-706	2.26	2.26	4.52	4.52	0.22	0.11	0.01	0.06	0.00	0.00	29.6
5R	183	-0	891	0	0	0	-889	2.26	2.26	4.52	4.52	0.22	0.14	0.02	0.12	0.00	0.00	29.6
apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6																		
1	274	-0	820	0	0	0	839	2.26	2.26	4.52	4.52	0.11	0.13	0.02	0.11	0.00	0.00	29.6
2	274	-0	589	0	0	0	498	2.26	2.26	4.52	4.52	0.11	0.08	0.01	0.08	0.00	0.00	29.6
3	274	-0	571	0	0	0	628	2.26	2.26	4.52	4.52	0.11	0.10	0.01	0.08	0.00	0.00	29.6
4	274	-0	186	0	0	0	-94	2.26	2.26	4.52	4.52	0.11	0.01	0.00	0.02	0.00	0.00	29.6
5A	274	-0	24	0	0	0	860	2.26	2.26	4.52	4.52	0.22	0.14	0.00	0.00	0.00	0.00	29.6
5B	274	-0	766	0	0	0	-815	2.26	2.26	4.52	4.52	0.22	0.13	0.02	0.10	0.00	0.00	29.6
5I	274	-0	-550	0	0	0	1559	2.26	2.26	4.52	4.52	0.22	0.25	0.01	0.07	0.00	0.00	29.6
5J	274	-0	1340	0	0	0	-1441	2.26	2.26	4.52	4.52	0.22	0.23	0.03	0.18	0.00	0.00	29.6
5Q	274	-0	-100	0	0	0	949	2.26	2.26	4.52	4.52	0.22	0.15	0.00	0.01	0.00	0.00	29.6
5R	274	-0	891	0	0	0	-925	2.26	2.26	4.52	4.52	0.22	0.15	0.02	0.12	0.00	0.00	29.6
apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6																		
1	365	-0	820	0	0	0	1246	2.26	2.26	4.52	4.52	0.11	0.20	0.02	0.11	0.00	0.00	29.6

2	365	-0	589	0	0	0	791	2.26	2.26	4.52	4.52	0.11	0.12	0.01	0.08	0.00	0.00	29.6
3	365	-0	571	0	0	0	911	2.26	2.26	4.52	4.52	0.11	0.14	0.01	0.08	0.00	0.00	29.6
4	365	-0	186	0	0	0	153	2.26	2.26	4.52	4.52	0.11	0.02	0.00	0.02	0.00	0.00	29.6
5A	365	-0	24	0	0	0	1464	2.26	2.26	4.52	4.52	0.22	0.24	0.00	0.00	0.00	0.00	29.6
5B	365	-0	766	0	0	0	-708	2.26	2.26	4.52	4.52	0.22	0.12	0.02	0.10	0.00	0.00	29.6
5I	365	-0	-550	0	0	0	2516	2.26	2.26	4.52	4.52	0.22	0.41	0.01	0.07	0.00	0.00	29.6
5J	365	-0	1340	0	0	0	-1441	2.26	2.26	4.52	4.52	0.22	0.23	0.03	0.18	0.00	0.00	29.6
5Q	365	-0	-100	0	0	0	1665	2.26	2.26	4.52	4.52	0.22	0.27	0.00	0.01	0.00	0.00	29.6
5R	365	-0	891	0	0	0	-962	2.26	2.26	4.52	4.52	0.22	0.16	0.02	0.12	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

ASTA NUM. 2 NI 3 NF 5 SEZ. Rp B= 0.500 H= 0.400 (trave di fondazione)

armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	x/d	Indice	resistenza		aswta	aswto	PASSO
	cm		kg			kg*m				cmq			Fx,M	Bielle	V,Mx		cmq/m	cm
1	0	-0	-814	0	0	0	1228	2.26	2.26	4.52	4.52	0.11	0.19	0.02	0.11	0.00	0.00	29.6
2	0	-0	-793	0	0	0	982	2.26	2.26	4.52	4.52	0.11	0.15	0.02	0.11	0.00	0.00	29.6
3	0	-0	-565	0	0	0	898	2.26	2.26	4.52	4.52	0.11	0.14	0.01	0.08	0.00	0.00	29.6
4	0	-0	-531	0	0	0	487	2.26	2.26	4.52	4.52	0.11	0.08	0.01	0.07	0.00	0.00	29.6
5A	0	-0	-680	0	0	0	1388	2.26	2.26	4.52	4.52	0.22	0.23	0.02	0.09	0.00	0.00	29.6
5B	0	-0	-110	0	0	0	-368	2.26	2.26	4.52	4.52	0.22	0.06	0.00	0.01	0.00	0.00	29.6
5I	0	-0	-1032	0	0	0	2337	2.26	2.26	4.52	4.52	0.22	0.38	0.03	0.14	0.00	0.00	29.6
5J	0	-0	242	0	0	0	-1272	2.26	2.26	4.52	4.52	0.22	0.21	0.01	0.03	0.00	0.00	29.6
5Q	0	-0	-767	0	0	0	1584	2.26	2.26	4.52	4.52	0.22	0.26	0.02	0.10	0.00	0.00	29.6
5R	0	-0	-22	0	0	0	-528	2.26	2.26	4.52	4.52	0.22	0.09	0.00	0.00	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	91	-0	-814	0	0	0	824	2.26	2.26	4.52	4.52	0.11	0.13	0.02	0.11	0.00	0.00	29.6
2	91	-0	-793	0	0	0	588	2.26	2.26	4.52	4.52	0.11	0.09	0.02	0.11	0.00	0.00	29.6
3	91	-0	-565	0	0	0	617	2.26	2.26	4.52	4.52	0.11	0.10	0.01	0.08	0.00	0.00	29.6
4	91	-0	-531	0	0	0	224	2.26	2.26	4.52	4.52	0.11	0.04	0.01	0.07	0.00	0.00	29.6
5A	91	-0	-680	0	0	0	1163	2.26	2.26	4.52	4.52	0.22	0.19	0.02	0.09	0.00	0.00	29.6
5B	91	-0	-110	0	0	0	-581	2.26	2.26	4.52	4.52	0.22	0.09	0.00	0.01	0.00	0.00	29.6
5I	91	-0	-1032	0	0	0	1865	2.26	2.26	4.52	4.52	0.22	0.30	0.03	0.14	0.00	0.00	29.6
5J	91	-0	242	0	0	0	-1191	2.26	2.26	4.52	4.52	0.22	0.19	0.01	0.03	0.00	0.00	29.6
5Q	91	-0	-767	0	0	0	1258	2.26	2.26	4.52	4.52	0.22	0.20	0.02	0.10	0.00	0.00	29.6
5R	91	-0	-22	0	0	0	-603	2.26	2.26	4.52	4.52	0.22	0.10	0.00	0.00	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	183	-0	-814	0	0	0	-257	2.26	2.26	4.52	4.52	0.11	0.04	0.02	0.11	0.00	0.00	29.6
2	183	-0	-793	0	0	0	-466	2.26	2.26	4.52	4.52	0.11	0.07	0.02	0.11	0.00	0.00	29.6
3	183	-0	-565	0	0	0	-134	2.26	2.26	4.52	4.52	0.11	0.02	0.01	0.08	0.00	0.00	29.6
4	183	-0	-531	0	0	0	-481	2.26	2.26	4.52	4.52	0.11	0.08	0.01	0.07	0.00	0.00	29.6
5A	183	-0	-680	0	0	0	655	2.26	2.26	4.52	4.52	0.22	0.11	0.02	0.09	0.00	0.00	29.6
5B	183	-0	567	0	0	0	-984	2.26	2.26	4.52	4.52	0.22	0.16	0.01	0.08	0.00	0.00	29.6
5I	183	-0	-1032	0	0	0	963	2.26	2.26	4.52	4.52	0.22	0.16	0.03	0.14	0.00	0.00	29.6
5J	183	-0	687	0	0	0	-1195	2.26	2.26	4.52	4.52	0.22	0.19	0.02	0.09	0.00	0.00	29.6
5Q	183	-0	-767	0	0	0	612	2.26	2.26	4.52	4.52	0.22	0.10	0.02	0.10	0.00	0.00	29.6
5R	183	-0	436	0	0	0	-850	2.26	2.26	4.52	4.52	0.22	0.14	0.01	0.06	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	274	-0	128	0	0	0	-194	2.26	2.26	4.52	4.52	0.11	0.03	0.00	0.02	0.00	0.00	29.6
2	274	-0	202	0	0	0	-365	2.26	2.26	4.52	4.52	0.11	0.06	0.00	0.03	0.00	0.00	29.6
3	274	-0	44	0	0	0	-112	2.26	2.26	4.52	4.52	0.11	0.02	0.00	0.01	0.00	0.00	29.6
4	274	-0	167	0	0	0	-398	2.26	2.26	4.52	4.52	0.11	0.06	0.00	0.02	0.00	0.00	29.6
5A	274	-0	-350	0	0	0	181	2.26	2.26	4.52	4.52	0.22	0.03	0.01	0.05	0.00	0.00	29.6
5B	274	-0	567	0	0	0	-448	2.26	2.26	4.52	4.52	0.22	0.07	0.01	0.08	0.00	0.00	29.6
5I	274	-0	-469	0	0	0	283	2.26	2.26	4.52	4.52	0.22	0.05	0.01	0.06	0.00	0.00	29.6
5J	274	-0	687	0	0	0	-550	2.26	2.26	4.52	4.52	0.22	0.09	0.02	0.09	0.00	0.00	29.6
5Q	274	-0	-219	0	0	0	126	2.26	2.26	4.52	4.52	0.22	0.02	0.01	0.03	0.00	0.00	29.6
5R	274	-0	436	0	0	0	-394	2.26	2.26	4.52	4.52	0.22	0.06	0.01	0.06	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	365	-0	128	0	0	0	-77	2.26	2.26	4.52	4.52	0.11	0.01	0.00	0.02	0.00	0.00	29.6
2	365	-0	202	0	0	0	-181	2.26	2.26	4.52	4.52	0.11	0.03	0.00	0.03	0.00	0.00	29.6
3	365	-0	44	0	0	0	-72	2.26	2.26	4.52	4.52	0.11	0.01	0.00	0.01	0.00	0.00	29.6
4	365	-0	167	0	0	0	-246	2.26	2.26	4.52	4.52	0.11	0.04	0.00	0.02	0.00	0.00	29.6
5A	365	-0	-350	0	0	0	-447	2.26	2.26	4.52	4.52	0.22	0.07	0.01	0.05	0.00	0.00	29.6
5B	365	-0	567	0	0	0	323	2.26	2.26	4.52	4.52	0.22	0.05	0.01	0.08	0.00	0.00	29.6
5I	365	-0	-469	0	0	0	-555	2.26	2.26	4.52	4.52	0.22	0.09	0.01	0.06	0.00	0.00	29.6
5J	365	-0	687	0	0	0	381	2.26	2.26	4.52	4.52	0.22	0.06	0.02	0.09	0.00	0.00	29.6
5Q	365	-0	-219	0	0	0	-313	2.26	2.26	4.52	4.52	0.22	0.05	0.01	0.03	0.00	0.00	29.6
5R	365	-0	436	0	0	0	244	2.26	2.26	4.52	4.52	0.22	0.04	0.01	0.06	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

ASTA NUM. 3 NI 2 NF 4 SEZ. Rp B= 0.500 H= 0.400 (trave di fondazione)

armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	x/d	Indice	resistenza		aswta	aswto	PASSO
	cm		kg			kg*m				cmq			Fx,M	Bielle	V,Mx		cmq/m	cm
1	0	-0	-223	0	0	0	33	2.26	2.26	4.52	4.52	0.11	0.01	0.01	0.03	0.00	0.00	29.6
2	0	-0	-148	0	0	0	75	2.26	2.26	4.52	4.52	0.11	0.01	0.00	0.02	0.00	0.00	29.6
3	0	-0	-226	0	0	0	64	2.26	2.26	4.52	4.52	0.11	0.01	0.01	0.03	0.00	0.00	29.6
4	0	-0	-100	0	0	0	135	2.26	2.26	4.52	4.52	0.11	0.02	0.00	0.01	0.00	0.00	29.6
5A	0	-0	-539	0	0	0	291	2.26	2.26	4.52	4.52	0.22	0.05	0.01	0.07	0.00	0.00	29.6
5B	0	-0	352	0	0	0	-441	2.26	2.26	4.52	4.52	0.22	0.07	0.01	0.05	0.00	0.00	29.6
5I	0	-0	-490	0	0	0	293	2.26	2.26	4.52	4.52	0.22	0.05	0.01	0.07	0.00	0.00	29.6
5J	0	-0	303	0	0	0	-422	2.26	2.26	4.52	4.52	0.22	0.07	0.01	0.04	0.00	0.00	29.6
5Q	0	-0	-424	0	0	0	228	2.26	2.26	4.52	4.52	0.22	0.04	0.01	0.06	0.00	0.00	29.6
5R	0	-0	237	0	0	0	-330	2.26	2.26	4.52	4.52	0.22	0.05	0.01	0.03	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	91	-0	-223	0	0	-0	-264	2.26	2.26	4.52	4.52	0.11	0.04	0.01	0.03	0.00	0.00	29.6
2	91	-0	-148	0	0	-0	-121	2.26	2.26	4.52	4.52	0.11	0.02	0.00	0.02	0.00	0.00	29.6
3	91	-0	-226	0	0	-0	-237	2.26	2.26	4.52	4.52	0.11	0.04	0.01	0.03	0.00	0.00	29.6
4	91	-0	-100	0	0	0	85	2.26	2.26	4.52	4.52	0.11	0.01	0.00	0.01	0.00	0.00	29.6
5A	91	-0	-539	0	0	-0	-441	2.26	2.26	4.52	4.52	0.22	0.07	0.01	0.07	0.00	0.00	29.6
5B	91	-0	352	0	0	-0	189	2.26	2.26	4.52	4.52	0.22	0.03	0.01	0.05	0.00	0.00	29.6
5I	91	-0	-490	0	0	-0	-379	2.26	2.26	4.52	4.52	0.22	0.06	0.01	0.07	0.00	0.00	29.6
5J	91	-0	303	0	0	-0	127	2.26	2.26	4.52	4.52	0.22	0.02	0.01	0.04	0.00	0.00	29.6
5Q	91	-0	-424	0	0	-0	-385	2.26	2.26	4.52	4.52	0.22	0.06	0.01	0.06	0.00	0.00	29.6
5R	91	-0	237	0	0	-0	132	2.26	2.26	4.52	4.52	0.22	0.02	0.01	0.03	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	183	-0	849	-0	0	-0	-375	2.26	2.26	4.52	4.52	0.11	0.06	0.02	0.11	0.00	0.00	29.6
2	183	-0	862	-0	0	-0	-194	2.26	2.26	4.52	4.52	0.11	0.03	0.02	0.12	0.00	0.00	29.6
3	183	-0	596	-0	0	-0	-349	2.26	2.26	4.52	4.52	0.11	0.06	0.01	0.08	0.00	0.00	29.6
4	183	-0	618	-0	0	-0	-49	2.26	2.26	4.52	4.52	0.11	0.01	0.02	0.08	0.00	0.00	29.6
5A	183	-0	-539	0	0	-0	-725	2.26	2.26	4.52	4.52	0.22	0.12	0.01	0.07	0.00	0.00	29.6
5B	183	-0	570	0	0	-0	-725	2.26	2.26	4.52	4.52	0.22	0.12	0.01	0.08	0.00	0.00	29.6
5I	183	-0	-490	0	0	-0	-725	2.26	2.26	4.52	4.52	0.22	0.12	0.01	0.07	0.00	0.00	29.6
5J	183	-0	734	0	0	-0	-725	2.26	2.26	4.52	4.52	0.22	0.12	0.02	0.10	0.00	0.00	29.6
5Q	183	-0	-424	0	0	-0	-725	2.26	2.26	4.52	4.52	0.22	0.12	0.01	0.06	0.00	0.00	29.6
5R	183	-0	717	0	0	-0	-725	2.26	2.26	4.52	4.52	0.22	0.12	0.02	0.10	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	274	-0	849	-0	0	0	753	2.26	2.26	4.52	4.52	0.11	0.12	0.02	0.11	0.00	0.00	29.6
2	274	-0	862	-0	0	0	952	2.26	2.26	4.52	4.52	0.11	0.15	0.02	0.12	0.00	0.00	29.6
3	274	-0	596	-0	0	0	442	2.26	2.26	4.52	4.52	0.11	0.07	0.01	0.08	0.00	0.00	29.6
4	274	-0	618	-0	0	0	773	2.26	2.26	4.52	4.52	0.11	0.12	0.02	0.08	0.00	0.00	29.6
5A	274	-0	231	-0	0	0	961	2.26	2.26	4.52	4.52	0.22	0.16	0.01	0.03	0.00	0.00	29.6
5B	274	-0	570	-0	0	0	-716	2.26	2.26	4.52	4.52	0.22	0.12	0.01	0.08	0.00	0.00	29.6
5I	274	-0	67	-0	0	0	976	2.26	2.26	4.52	4.52	0.22	0.16	0.00	0.01	0.00	0.00	29.6
5J	274	-0	734	-0	0	0	-725	2.26	2.26	4.52	4.52	0.22	0.12	0.02	0.10	0.00	0.00	29.6
5Q	274	-0	84	-0	0	0	943	2.26	2.26	4.52	4.52	0.22	0.15	0.00	0.01	0.00	0.00	29.6
5R	274	-0	717	-0	0	0	-725	2.26	2.26	4.52	4.52	0.22	0.12	0.02	0.10	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	365	-0	849	-0	0	0	1174	2.26	2.26	4.52	4.52	0.11	0.18	0.02	0.11	0.00	0.00	29.6
2	365	-0	862	-0	0	0	1380	2.26	2.26	4.52	4.52	0.11	0.22	0.02	0.12	0.00	0.00	29.6
3	365	-0	596	-0	0	0	738	2.26	2.26	4.52	4.52	0.11	0.12	0.01	0.08	0.00	0.00	29.6
4	365	-0	618	-0	0	0	1080	2.26	2.26	4.52	4.52	0.11	0.17	0.02	0.08	0.00	0.00	29.6
5A	365	-0	231	-0	0	0	1350	2.26	2.26	4.52	4.52	0.22	0.22	0.01	0.03	0.00	0.00	29.6
5B	365	-0	570	-0	0	0	-470	2.26	2.26	4.52	4.52	0.22	0.08	0.01	0.08	0.00	0.00	29.6
5I	365	-0	67	-0	0	0	1597	2.26	2.26	4.52	4.52	0.22	0.26	0.00	0.01	0.00	0.00	29.6
5J	365	-0	734	-0	0	0	-725	2.26	2.26	4.52	4.52	0.22	0.12	0.02	0.10	0.00	0.00	29.6
5Q	365	-0	84	-0	0	0	1518	2.26	2.26	4.52	4.52	0.22	0.25	0.00	0.01	0.00	0.00	29.6
5R	365	-0	717	-0	0	0	-700	2.26	2.26	4.52	4.52	0.22	0.11	0.02	0.10	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

ASTA NUM. 4 NI 4 NF 6 SEZ. Rp B= 0.500 H= 0.400 (trave di fondazione)

armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	x/d	Indice	resistenza		aswta	aswto	PASSO
	cm		kg			kg*m				cmq			Fx,M	Bielle	V,Mx		cmq/m	cm
1	0	-0	-853	0	0	0	1192	2.26	2.26	4.52	4.52	0.11	0.19	0.02	0.11	0.00	0.00	29.6
2	0	-0	-1031	0	0	0	1553	2.26	2.26	4.52	4.52	0.11	0.24	0.03	0.14	0.00	0.00	29.6
3	0	-0	-595	0	0	0	745	2.26	2.26	4.52	4.52	0.11	0.12	0.01	0.08	0.00	0.00	29.6
4	0	-0	-891	0	0	0	1346	2.26	2.26	4.52	4.52	0.11	0.21	0.02	0.12	0.00	0.00	29.6
5A	0	-0	-665	0	0	0	1414	2.26	2.26	4.52	4.52	0.22	0.23	0.02	0.09	0.00	0.00	29.6
5B	0	-0	-139	0	0	0	-341	2.26	2.26	4.52	4.52	0.22	0.06	0.00	0.02	0.00	0.00	29.6
5I	0	-0	-957	0	0	0	1701	2.26	2.26	4.52	4.52	0.22	0.28	0.02	0.13	0.00	0.00	29.6
5J	0	-0	152	0	0	0	-617	2.26	2.26	4.52	4.52	0.22	0.10	0.00	0.02	0.00	0.00	29.6
5Q	0	-0	-859	0	0	0	1601	2.26	2.26	4.52	4.52	0.22	0.26	0.02	0.12	0.00	0.00	29.6
5R	0	-0	55	0	0	0	-493	2.26	2.26	4.52	4.52	0.22	0.08	0.00	0.01	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	91	-0	-853	0	0	0	769	2.26	2.26	4.52	4.52	0.11	0.12	0.02	0.11	0.00	0.00	29.6
2	91	-0	-1031	0	0	0	1041	2.26	2.26	4.52	4.52	0.11	0.16	0.03	0.14	0.00	0.00	29.6
3	91	-0	-595	0	0	0	450	2.26	2.26	4.52	4.52	0.11	0.07	0.01	0.08	0.00	0.00	29.6
4	91	-0	-891	0	0	0	904	2.26	2.26	4.52	4.52	0.11	0.14	0.02	0.12	0.00	0.00	29.6
5A	91	-0	-665	0	0	0	1124	2.26	2.26	4.52	4.52	0.22	0.18	0.02	0.09	0.00	0.00	29.6
5B	91	-0	-139	0	0	0	-508	2.26	2.26	4.52	4.52	0.22	0.08	0.00	0.02	0.00	0.00	29.6
5I	91	-0	-957	0	0	0	1295	2.26	2.26	4.52	4.52	0.22	0.21	0.02	0.13	0.00	0.00	29.6
5J	91	-0	152	0	0	0	-563	2.26	2.26	4.52	4.52	0.22	0.09	0.00	0.02	0.00	0.00	29.6
5Q	91	-0	-859	0	0	0	1224	2.26	2.26	4.52	4.52	0.22	0.20	0.02	0.12	0.00	0.00	29.6
5R	91	-0	55	0	0	0	-492	2.26	2.26	4.52	4.52	0.22	0.08	0.00	0.01	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	183	-0	-853	0	0	-0	-364	2.26	2.26	4.52	4.52	0.11	0.06	0.02	0.11	0.00	0.00	29.6
2	183	-0	-1031	0	0	-0	-328	2.26	2.26	4.52	4.52	0.11	0.05	0.03	0.14	0.00	0.00	29.6
3	183	-0	-595	0	0	-0	-341	2.26	2.26	4.52	4.52	0.11	0.05	0.01	0.08	0.00	0.00	29.6
4	183	-0	-891	0	0	-0	-436	2.26	2.26	4.52	4.52	0.11	0.07	0.02	0.12	0.00	0.00	29.6
5A	183	-0	-665	0	0	0	557	2.26	2.26	4.52	4.52	0.22	0.09	0.02	0.09	0.00	0.00	29.6
5B	183	-0	529	0	0	0	-617	2.26	2.26	4.52	4.52	0.22	0.10	0.01	0.07	0.00	0.00	29.6
5I	183	-0	-957	0	0	0	491	2.26	2.26	4.52	4.52	0.22	0.08	0.02	0.13	0.00	0.00	29.6
5J	183	-0	458	0	0	0	-617	2.26	2.26	4.52	4.52	0.22	0.10	0.01	0.06	0.00	0.00	29.6
5Q	183	-0	-859	0	0	0	489	2.26	2.26	4.52	4.52	0.22	0.08	0.02	0.12	0.00	0.00	29.6
5R	183	-0	410	0	0	0	-617	2.26	2.26	4.52	4.52	0.22	0.10	0.01	0.06	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	274	-0	195	-0	0	-0	-267	2.26	2.26	4.52	4.52	0.11	0.04	0.00	0.03	0.00	0.00	29.6
2	274	-0	18	-0	0	-0	-319	2.26	2.26	4.52	4.52	0.11	0.05	0.00	0.00	0.00	0.00	29.6
3	274	-0	210	-0	0	-0	-237	2.26	2.26	4.52	4.52	0.11	0.04	0.01	0.03	0.00	0.00	29.6
4	274	-0	-85	0	0	-0	-394	2.26	2.26	4.52	4.52	0.11	0.06	0.00	0.01	0.00	0.00	29.6
5A	274	-0	-370	0	0	-0	-237	2.26	2.26	4.52	4.52	0.22	0.04	0.01	0.05	0.00	0.00	29.6
5B	274	-0	529	0	0	-0	-329	2.26	2.26	4.52	4.52	0.22	0.05	0.01	0.07	0.00	0.00	29.6
5I	274	-0	-299	0	0	-0	-380	2.26	2.26	4.52	4.52	0.22	0.06	0.01	0.04	0.00	0.00	29.6
5J	274	-0	458	0	0	-0	254	2.26	2.26	4.52	4.52	0.22	0.04	0.01	0.06	0.00	0.00	29.6
5Q	274	-0	-251	0	0	-0	-237	2.26	2.26	4.52	4.52	0.22	0.04	0.01	0.03	0.00	0.00	29.6
5R	274	-0	410	0	0	-0	-230	2.26	2.26	4.52	4.52	0.22	0.04	0.01	0.06	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	365	-0	195	-0	0	-0	-90	2.26	2.26	4.52	4.52	0.11	0.01	0.00	0.03	0.00	0.00	29.6
2	365	-0	18	-0	0	-0	-303	2.26	2.26	4.52	4.52	0.11	0.05	0.00	0.00	0.00	0.00	29.6
3	365	-0	210	-0	0	0	42	2.26	2.26	4.52	4.52	0.11	0.01	0.01	0.03	0.00	0.00	29.6
4	365	-0	-85	0	0	-0	-436	2.26	2.26	4.52	4.52	0.11	0.07	0.00	0.01	0.00	0.00	29.6
5A	365	-0	-370	0	0	-0	-601	2.26	2.26	4.52	4.52	0.22	0.10	0.01	0.05	0.00	0.00	29.6
5B	365	-0	529	0	0	-0	400	2.26	2.26	4.52	4.52	0.22	0.07	0.01	0.07	0.00	0.00	29.6
5I	365	-0	-299	0	0	-0	-617	2.26	2.26	4.52	4.52	0.22	0.10	0.01	0.04	0.00	0.00	29.6
5J	365	-0	458	0	0	-0	557	2.26	2.26	4.52	4.52	0.22	0.09	0.01	0.06	0.00	0.00	29.6
5Q	365	-0	-251	0	0	-0	-501	2.26	2.26	4.52	4.52	0.22	0.08	0.01	0.03	0.00	0.00	29.6
5R	365	-0	410	0	0	-0	350	2.26	2.26	4.52	4.52	0.22	0.06	0.01	0.06	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

ASTA NUM. 5 NI 5 NF 6 SEZ. Rp B= 0.500 H= 0.400 (trave di fondazione)

armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	x/d	Indice resistenza			aswta	aswto	PASSO
	cm	kg			kg*m			cmq					Fx,M	Bielle	V,Mx	cmq/m		cm
1	0	-0	-184	-0	0	-0	74	2.26	2.26	4.52	4.52	0.11	0.01	0.00	0.02	0.00	0.00	29.6
2	0	-0	-40	-0	0	0	-542	2.26	2.26	4.52	4.52	0.11	0.09	0.00	0.01	0.00	0.00	29.6
3	0	-0	-328	-0	0	-0	695	2.26	2.26	4.52	4.52	0.11	0.11	0.01	0.04	0.00	0.00	29.6
4	0	-0	-89	-0	0	0	-341	2.26	2.26	4.52	4.52	0.11	0.05	0.00	0.01	0.00	0.00	29.6
5A	0	-0	-919	0	0	0	2600	2.26	2.26	4.52	4.52	0.22	0.42	0.02	0.12	0.00	0.00	29.6
5B	0	-0	898	0	0	0	-3502	2.26	2.26	4.52	4.52	0.22	0.57	0.02	0.12	0.00	0.00	29.6
5I	0	-0	-571	0	0	0	1100	2.26	2.26	4.52	4.52	0.22	0.18	0.01	0.08	0.00	0.00	29.6
5J	0	-0	549	0	0	0	-1857	2.26	2.26	4.52	4.52	0.22	0.30	0.01	0.07	0.00	0.00	29.6
5Q	0	-0	-463	0	0	0	971	2.26	2.26	4.52	4.52	0.22	0.16	0.01	0.06	0.00	0.00	29.6
5R	0	-0	441	0	0	0	-1683	2.26	2.26	4.52	4.52	0.22	0.27	0.01	0.06	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	168	-0	-184	-0	0	0	-310	2.26	2.26	4.52	4.52	0.11	0.05	0.00	0.02	0.00	0.00	29.6
2	168	-0	-40	-0	0	0	-610	2.26	2.26	4.52	4.52	0.11	0.10	0.00	0.01	0.00	0.00	29.6
3	168	-0	-328	-0	0	-0	282	2.26	2.26	4.52	4.52	0.11	0.04	0.01	0.04	0.00	0.00	29.6
4	168	-0	-89	-0	0	0	-491	2.26	2.26	4.52	4.52	0.11	0.08	0.00	0.01	0.00	0.00	29.6
5A	168	-0	-919	0	0	0	1407	2.26	2.26	4.52	4.52	0.22	0.23	0.02	0.12	0.00	0.00	29.6
5B	168	-0	898	0	0	0	-1963	2.26	2.26	4.52	4.52	0.22	0.32	0.02	0.12	0.00	0.00	29.6
5I	168	-0	-571	0	0	0	350	2.26	2.26	4.52	4.52	0.22	0.06	0.01	0.08	0.00	0.00	29.6
5J	168	-0	549	0	0	0	-905	2.26	2.26	4.52	4.52	0.22	0.15	0.01	0.07	0.00	0.00	29.6
5Q	168	-0	-463	0	0	0	332	2.26	2.26	4.52	4.52	0.22	0.05	0.01	0.06	0.00	0.00	29.6
5R	168	-0	441	0	0	0	-888	2.26	2.26	4.52	4.52	0.22	0.14	0.01	0.06	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	335	-0	-184	-0	0	0	-618	2.26	2.26	4.52	4.52	0.11	0.10	0.00	0.02	0.00	0.00	29.6
2	335	-0	129	0	0	0	-661	2.26	2.26	4.52	4.52	0.11	0.10	0.00	0.02	0.00	0.00	29.6
3	335	-0	-328	-0	0	0	-541	2.26	2.26	4.52	4.52	0.11	0.09	0.01	0.04	0.00	0.00	29.6
4	335	-0	140	0	0	0	-603	2.26	2.26	4.52	4.52	0.11	0.09	0.00	0.02	0.00	0.00	29.6
5A	335	-0	-981	0	0	0	-959	2.26	2.26	4.52	4.52	0.22	0.16	0.02	0.13	0.00	0.00	29.6
5B	335	-0	1091	0	0	0	-1005	2.26	2.26	4.52	4.52	0.22	0.16	0.03	0.15	0.00	0.00	29.6
5I	335	-0	-571	0	0	0	-1114	2.26	2.26	4.52	4.52	0.22	0.18	0.01	0.08	0.00	0.00	29.6
5J	335	-0	549	0	0	0	-1105	2.26	2.26	4.52	4.52	0.22	0.18	0.01	0.07	0.00	0.00	29.6
5Q	335	-0	-463	0	0	0	-885	2.26	2.26	4.52	4.52	0.22	0.14	0.01	0.06	0.00	0.00	29.6
5R	335	-0	494	0	0	0	-898	2.26	2.26	4.52	4.52	0.22	0.15	0.01	0.07	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	503	-0	-129	-0	0	0	-811	2.26	2.26	4.52	4.52	0.11	0.13	0.00	0.02	0.00	0.00	29.6
2	503	-0	129	0	0	0	-499	2.26	2.26	4.52	4.52	0.11	0.08	0.00	0.02	0.00	0.00	29.6
3	503	-0	-289	-0	0	0	-1009	2.26	2.26	4.52	4.52	0.11	0.16	0.01	0.04	0.00	0.00	29.6
4	503	-0	140	0	0	0	-426	2.26	2.26	4.52	4.52	0.11	0.07	0.00	0.02	0.00	0.00	29.6
5A	503	-0	-981	0	0	0	-2209	2.26	2.26	4.52	4.52	0.22	0.36	0.02	0.13	0.00	0.00	29.6
5B	503	-0	1091	0	0	0	1838	2.26	2.26	4.52	4.52	0.22	0.30	0.03	0.15	0.00	0.00	29.6
5I	503	-0	-380	0	0	-0	-750	2.26	2.26	4.52	4.52	0.22	0.12	0.01	0.05	0.00	0.00	29.6
5J	503	-0	490	0	0	-0	379	2.26	2.26	4.52	4.52	0.22	0.06	0.01	0.07	0.00	0.00	29.6
5Q	503	-0	-384	0	0	-0	-892	2.26	2.26	4.52	4.52	0.22	0.15	0.01	0.05	0.00	0.00	29.6
5R	503	-0	494	0	0	-0	521	2.26	2.26	4.52	4.52	0.22	0.08	0.01	0.07	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	670	-0	-129	-0	0	0	-973	2.26	2.26	4.52	4.52	0.11	0.15	0.00	0.02	0.00	0.00	29.6
2	670	-0	129	0	0	0	-283	2.26	2.26	4.52	4.52	0.11	0.04	0.00	0.02	0.00	0.00	29.6
3	670	-0	-289	-0	0	0	-1372	2.26	2.26	4.52	4.52	0.11	0.22	0.01	0.04	0.00	0.00	29.6
4	670	-0	140	0	0	0	-191	2.26	2.26	4.52	4.52	0.11	0.03	0.00	0.02	0.00	0.00	29.6
5A	670	-0	-981	0	0	0	-3550	2.26	2.26	4.52	4.52	0.22	0.58	0.02	0.13	0.00	0.00	29.6
5B	670	-0	1091	0	0	0	3318	2.26	2.26	4.52	4.52	0.22	0.54	0.03	0.15	0.00	0.00	29.6
5I	670	-0	-380	0	0	-0	-1617	2.26	2.26	4.52	4.52	0.22	0.26	0.01	0.05	0.00	0.00	29.6
5J	670	-0	490	0	0	-0	1226	2.26	2.26	4.52	4.52	0.22	0.20	0.01	0.07	0.00	0.00	29.6
5Q	670	-0	-384	0	0	-0	-1715	2.26	2.26	4.52	4.52	0.22	0.28	0.01	0.05	0.00	0.00	29.6
5R	670	-0	494	0	0	-0	1322	2.26	2.26	4.52	4.52	0.22	0.22	0.01	0.07	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

ASTA NUM. 6 NI 1 NF 2 SEZ. Rp B= 0.500 H= 0.400 (trave di fondazione)

armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	x/d	Indice	resistenza		aswta	aswto	PASSO
	cm		kg			kg*m				cmq			Fx,M	Bielle	V,Mx		cmq/m	cm
1	0	-0	-199	0	0	0	124	2.26	2.26	4.52	4.52	0.11	0.02	0.00	0.03	0.00	0.00	29.6
2	0	-0	42	0	0	0	-581	2.26	2.26	4.52	4.52	0.11	0.09	0.00	0.01	0.00	0.00	29.6
3	0	-0	-338	0	0	0	727	2.26	2.26	4.52	4.52	0.11	0.11	0.01	0.05	0.00	0.00	29.6
4	0	-0	64	0	0	0	-447	2.26	2.26	4.52	4.52	0.11	0.07	0.00	0.01	0.00	0.00	29.6
5A	0	-0	-885	0	0	0	2578	2.26	2.26	4.52	4.52	0.22	0.42	0.02	0.12	0.00	0.00	29.6
5B	0	-0	853	0	0	0	-3425	2.26	2.26	4.52	4.52	0.22	0.56	0.02	0.11	0.00	0.00	29.6
5I	0	-0	-439	0	0	0	944	2.26	2.26	4.52	4.52	0.22	0.15	0.01	0.06	0.00	0.00	29.6
5J	0	-0	407	0	0	0	-1606	2.26	2.26	4.52	4.52	0.22	0.26	0.01	0.05	0.00	0.00	29.6
5Q	0	-0	-380	0	0	0	924	2.26	2.26	4.52	4.52	0.22	0.15	0.01	0.05	0.00	0.00	29.6
5R	0	-0	347	0	0	0	-1560	2.26	2.26	4.52	4.52	0.22	0.25	0.01	0.05	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	168	-0	-199	0	0	0	-292	2.26	2.26	4.52	4.52	0.11	0.05	0.00	0.03	0.00	0.00	29.6
2	168	-0	42	0	0	0	-528	2.26	2.26	4.52	4.52	0.11	0.08	0.00	0.01	0.00	0.00	29.6
3	168	-0	-338	0	0	0	302	2.26	2.26	4.52	4.52	0.11	0.05	0.01	0.05	0.00	0.00	29.6
4	168	-0	64	0	0	0	-367	2.26	2.26	4.52	4.52	0.11	0.06	0.00	0.01	0.00	0.00	29.6
5A	168	-0	-885	0	0	0	1394	2.26	2.26	4.52	4.52	0.22	0.23	0.02	0.12	0.00	0.00	29.6
5B	168	-0	853	0	0	0	-1927	2.26	2.26	4.52	4.52	0.22	0.31	0.02	0.11	0.00	0.00	29.6
5I	168	-0	-439	0	0	0	306	2.26	2.26	4.52	4.52	0.22	0.05	0.01	0.06	0.00	0.00	29.6
5J	168	-0	407	0	0	0	-839	2.26	2.26	4.52	4.52	0.22	0.14	0.01	0.05	0.00	0.00	29.6
5Q	168	-0	-380	0	0	0	260	2.26	2.26	4.52	4.52	0.22	0.04	0.01	0.05	0.00	0.00	29.6
5R	168	-0	347	0	0	0	-793	2.26	2.26	4.52	4.52	0.22	0.13	0.01	0.05	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	335	-0	-199	0	0	0	-625	2.26	2.26	4.52	4.52	0.11	0.10	0.00	0.03	0.00	0.00	29.6
2	335	-0	42	0	0	0	-457	2.26	2.26	4.52	4.52	0.11	0.07	0.00	0.01	0.00	0.00	29.6
3	335	-0	-338	0	0	0	-545	2.26	2.26	4.52	4.52	0.11	0.09	0.01	0.05	0.00	0.00	29.6
4	335	-0	64	0	0	0	-261	2.26	2.26	4.52	4.52	0.11	0.04	0.00	0.01	0.00	0.00	29.6
5A	335	-0	-1004	0	0	0	-945	2.26	2.26	4.52	4.52	0.22	0.15	0.02	0.13	0.00	0.00	29.6
5B	335	-0	1099	0	0	0	-985	2.26	2.26	4.52	4.52	0.22	0.16	0.03	0.15	0.00	0.00	29.6
5I	335	-0	-439	0	0	0	-881	2.26	2.26	4.52	4.52	0.22	0.14	0.01	0.06	0.00	0.00	29.6
5J	335	-0	519	0	0	0	-914	2.26	2.26	4.52	4.52	0.22	0.15	0.01	0.07	0.00	0.00	29.6
5Q	335	-0	-454	0	0	0	-909	2.26	2.26	4.52	4.52	0.22	0.15	0.01	0.06	0.00	0.00	29.6
5R	335	-0	550	0	0	0	-948	2.26	2.26	4.52	4.52	0.22	0.15	0.01	0.07	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	503	-0	-149	0	0	0	-853	2.26	2.26	4.52	4.52	0.11	0.13	0.00	0.02	0.00	0.00	29.6
2	503	-0	28	0	0	0	-405	2.26	2.26	4.52	4.52	0.11	0.06	0.00	0.00	0.00	0.00	29.6
3	503	-0	-302	0	0	0	-1036	2.26	2.26	4.52	4.52	0.11	0.16	0.01	0.04	0.00	0.00	29.6

4	503	-0	-8	0	0	0	-251	2.26	2.26	4.52	4.52	0.11	0.04	0.00	0.00	0.00	0.00	29.6
5A	503	-0	-1004	0	0	0	-2256	2.26	2.26	4.52	4.52	0.22	0.37	0.02	0.13	0.00	0.00	29.6
5B	503	-0	1099	0	0	0	1854	2.26	2.26	4.52	4.52	0.22	0.30	0.03	0.15	0.00	0.00	29.6
5I	503	-0	-424	0	0	0	-908	2.26	2.26	4.52	4.52	0.22	0.15	0.01	0.06	0.00	0.00	29.6
5J	503	-0	519	0	0	0	506	2.26	2.26	4.52	4.52	0.22	0.08	0.01	0.07	0.00	0.00	29.6
5Q	503	-0	-454	0	0	0	-940	2.26	2.26	4.52	4.52	0.22	0.15	0.01	0.06	0.00	0.00	29.6
5R	503	-0	550	0	0	0	538	2.26	2.26	4.52	4.52	0.22	0.09	0.01	0.07	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

1	670	-0	-149	0	0	0	-1040	2.26	2.26	4.52	4.52	0.11	0.16	0.00	0.02	0.00	0.00	29.6
2	670	-0	28	0	0	0	-358	2.26	2.26	4.52	4.52	0.11	0.06	0.00	0.00	0.00	0.00	29.6
3	670	-0	-302	0	0	0	-1416	2.26	2.26	4.52	4.52	0.11	0.22	0.01	0.04	0.00	0.00	29.6
4	670	-0	-8	0	0	0	-264	2.26	2.26	4.52	4.52	0.11	0.04	0.00	0.00	0.00	0.00	29.6
5A	670	-0	-1004	0	0	0	-3602	2.26	2.26	4.52	4.52	0.22	0.59	0.02	0.13	0.00	0.00	29.6
5B	670	-0	1099	0	0	0	3320	2.26	2.26	4.52	4.52	0.22	0.54	0.03	0.15	0.00	0.00	29.6
5I	670	-0	-424	0	0	0	-1738	2.26	2.26	4.52	4.52	0.22	0.28	0.01	0.06	0.00	0.00	29.6
5J	670	-0	519	0	0	0	1279	2.26	2.26	4.52	4.52	0.22	0.21	0.01	0.07	0.00	0.00	29.6
5Q	670	-0	-454	0	0	0	-1809	2.26	2.26	4.52	4.52	0.22	0.29	0.01	0.06	0.00	0.00	29.6
5R	670	-0	550	0	0	0	1337	2.26	2.26	4.52	4.52	0.22	0.22	0.01	0.07	0.00	0.00	29.6

apost= -- aant= -- ainf= 2.26 asup= 2.26 (e arm. base= 4 X 1.13) staffe= 2 d 8 / 29.6

VERIFICHE GEOTECNICHE
CAPACITA' PORTANTE E SCORRIMENTO

--

Caratteristiche geotecniche del terreno:
Peso specifico terreno: **1760** kg/m³ Cu, coesione: **0.045** kg/cm²
Angolo di attrito: **30.00** gradi Profondità di posa: **50.0** cm
Angolo di attrito terreno-fondazione **19.80** gradi Adesione terreno-fondazione: **0.132** kg/cm²

Metodo di calcolo della capacità portante:
Criterio di: **Terzaghi**

Coefficienti sismici globali:
Coefficiente sismico [khiX]: **1.620**
Coefficiente sismico [khiY]: **1.620**
Coefficiente sismico [khk]: **0.168**

Tipo fondazione:**trave rovescia**
Base: 50 [cm]

Combinazione: **1** Descrizione: **Statica 1 (neve Prevalente e vento dir. X)** azione sismica **ASSENTE**

Coefficienti parziali γM di sicurezza per i parametri geotecnici del terreno
Tangente angolo res. taglio: **1.00**
Coesione efficace: **1.00**
Resistenza non drenata: **1.00**
Peso dell'unita' di volume: **1.00**

Coefficienti parziali γR di sicurezza per le verifiche SLU
Capacita' portante: **1.00**
Scorrimento: **1.00**

Fattore Nq: **22.50** Fattore Nc: **37.20** Fattore Nγ: **19.70**
Effetto dell'inclinazione del carico non contemplato dal criterio di Terzaghi.
Fattore di forma [sq]: **1.00** Fattore di forma [sc]: **1.00** Fattore di forma [sγ]: **1.00**
Fattore di profondita' [dq]: **0.00** Fattore di profondita' [dc]: **0.00** Fattore di profondita' [dγ]: **0.00**
Coefficiente correttivo [eγk]: **0.00** Coefficiente correttivo [eγiX]: **0.00** Coefficiente correttivo [eγiY]: **0.00**

Verifica della capacità portante
QUlt: **45208.000** kg/m²
Max pressione suolo: **2768.800** kg/m²
Indice di resistenza: **0.06**

Combinazione: **2** Descrizione: **Statica 2 (neve Prevalente e vento dir. Y)** azione sismica **ASSENTE**

Coefficienti parziali γM di sicurezza per i parametri geotecnici del terreno
Tangente angolo res. taglio: **1.00**
Coesione efficace: **1.00**
Resistenza non drenata: **1.00**
Peso dell'unita' di volume: **1.00**

Coefficienti parziali γR di sicurezza per le verifiche SLU
Capacita' portante: **2.30**
Scorrimento: **1.10**

Fattore Nq: **22.50** Fattore Nc: **37.20** Fattore Nγ: **19.70**
Effetto dell'inclinazione del carico non contemplato dal criterio di Terzaghi.
Fattore di forma [sq]: **1.00** Fattore di forma [sc]: **1.00** Fattore di forma [sγ]: **1.00**
Fattore di profondita' [dq]: **0.00** Fattore di profondita' [dc]: **0.00** Fattore di profondita' [dγ]: **0.00**
Coefficiente correttivo [eγk]: **0.00** Coefficiente correttivo [eγiX]: **0.00** Coefficiente correttivo [eγiY]: **0.00**

Verifica della capacità portante
QUlt: **45208.000** kg/m²
Max pressione suolo: **2835.800** kg/m²

Indice di resistenza: **0.14**

Combinazione: **3** Descrizione: **Statica 3 (Vento dir. X Prevalente e Neve)** azione sismica **ASSENTE**

Coefficienti parziali γM di sicurezza per i parametri geotecnici del terreno
Tangente angolo res. taglio: **1.00**
Coesione efficace: **1.00**
Resistenza non drenata: **1.00**
Peso dell'unita' di volume: **1.00**

Coefficienti parziali γR di sicurezza per le verifiche SLU
Capacita' portante: **2.30**
Scorrimento: **1.10**

Fattore Nq: **22.50** Fattore Nc: **37.20** Fattore Nγ: **19.70**
Effetto dell'inclinazione del carico non contemplato dal criterio di Terzaghi.
Fattore di forma [sq]: **1.00** Fattore di forma [sc]: **1.00** Fattore di forma [sγ]: **1.00**
Fattore di profondita' [dq]: **0.00** Fattore di profondita' [dc]: **0.00** Fattore di profondita' [dγ]: **0.00**
Coefficiente correttivo [eγk]: **0.00** Coefficiente correttivo [eγiX]: **0.00** Coefficiente correttivo [eγiY]: **0.00**

Verifica della capacità portante
QUlt: **45208.000** kg/m²
Max pressione suolo: **2368.400** kg/m²
Indice di resistenza: **0.12**

Combinazione: **4** Descrizione: **Statica 4 (Vento dir. Y Prevalente e Neve)** azione sismica **ASSENTE**

Coefficienti parziali γM di sicurezza per i parametri geotecnici del terreno
Tangente angolo res. taglio: **1.00**
Coesione efficace: **1.00**
Resistenza non drenata: **1.00**
Peso dell'unita' di volume: **1.00**

Coefficienti parziali γR di sicurezza per le verifiche SLU
Capacita' portante: **2.30**
Scorrimento: **1.10**

Fattore Nq: **22.50** Fattore Nc: **37.20** Fattore Nγ: **19.70**
Effetto dell'inclinazione del carico non contemplato dal criterio di Terzaghi.
Fattore di forma [sq]: **1.00** Fattore di forma [sc]: **1.00** Fattore di forma [sγ]: **1.00**
Fattore di profondita' [dq]: **0.00** Fattore di profondita' [dc]: **0.00** Fattore di profondita' [dγ]: **0.00**
Coefficiente correttivo [eγk]: **0.00** Coefficiente correttivo [eγiX]: **0.00** Coefficiente correttivo [eγiY]: **0.00**

Verifica della capacità portante
QUlt: **45208.000** kg/m²
Max pressione suolo: **2480.400** kg/m²
Indice di resistenza: **0.13**

Combinazione: **5** Descrizione: **Sismica (Dinamica)** azione sismica **PRESENTE**

Coefficienti parziali γM di sicurezza per i parametri geotecnici del terreno
Tangente angolo res. taglio: **1.00**
Coesione efficace: **1.00**
Resistenza non drenata: **1.00**
Peso dell'unita' di volume: **1.00**

Coefficienti parziali γR di sicurezza per le verifiche SLU
Capacita' portante: **2.30**
Scorrimento: **1.10**

Fattore Nq: **22.50** Fattore Nc: **37.20** Fattore Nγ: **19.70**
Effetto dell'inclinazione del carico non contemplato dal criterio di Terzaghi.
Fattore di forma [sq]: **1.00** Fattore di forma [sc]: **1.00** Fattore di forma [sγ]: **1.00**
Fattore di profondita' [dq]: **0.00** Fattore di profondita' [dc]: **0.00** Fattore di profondita' [dγ]: **0.00**
Coefficiente correttivo [eγk]: **0.00** Coefficiente correttivo [eγiX]: **0.00** Coefficiente correttivo [eγiY]: **0.00**

Verifica della capacità portante
QUlt (sisma in dir.X): **45208.000** kg/m²
QUlt (sisma in dir.Y): **45208.000** kg/m²
Max pressione suolo: **3662.876** kg/m²
Indice di resistenza: **0.19**

Verifica a scorrimento

Carico orizzontale in dir.X agente sulla fondazione: **5197.54** kg
Carico orizzontale in dir.Y agente sulla fondazione: **5197.54** kg
Carico verticale agente sulla fondazione: **3208.36** kg
Forza resistente per attrito: **19819.88** kg
Indice di resistenza: **0.29**

Combinazione: **10** Descrizione: **Permanente** azione sismica **ASSENTE**

Coefficienti parziali γM di sicurezza per i parametri geotecnici del terreno
Tangente angolo res. taglio: **1.00**
Coesione efficace: **1.00**
Resistenza non drenata: **1.00**
Peso dell'unita' di volume: **1.00**

Coeff. sicurezza SLE: **3.0**

Fattore Nq: **22.50** Fattore Nc: **37.20** Fattore Nγ: **19.70**
Effetto dell'inclinazione del carico non contemplato dal criterio di Terzaghi.
Fattore di forma [sq]: **1.00** Fattore di forma [sc]: **1.00** Fattore di forma [sγ]: **1.00**
Fattore di profondita' [dq]: **0.00** Fattore di profondita' [dc]: **0.00** Fattore di profondita' [dγ]: **0.00**
Coefficiente correttivo [eγk]: **0.00** Coefficiente correttivo [eγiX]: **0.00** Coefficiente correttivo [eγiY]: **0.00**

Verifica della capacità portante
QUlt: **45208.000** kg/m²
Max pressione suolo: **1550.480** kg/m²
Indice di resistenza: **0.10**