

Studio di progettazione architetto Maria Elena Rizzoli

piazza Matteotti 12 - 28921 Verbania Intra Tel/Fax 0323/516767

cell 340/ 7196653 email:arch.elenarizzoli@gmail.com

C.F.: RZZMLN67P41L746F P.iva 01579250034

REGIONE PIEMONTE

COMUNE DI DOMODOSSOLA

PROVINCIA DEL VERBANO CUSIO OSSOLA

Oggetto: AMPLIAMENTO SEDE OPERATIVA "DOMO1" DI
IDRABLU A DOMODOSSOLA: PROGETTO
DEFINITIVO

Elaborato: FASCICOLO DEI CALCOLI C.A.

Committenti: IDRABLU S.P.A.

Progettista: Arch. Maria Elena Rizzoli

Località: Verbania

Data: MARZO 2017

Scala:

Protocollo:

TAVOLA

4 CA

1. GENERALITA'

La presente relazione riguarda i calcoli e la verifica delle membrature per l'ampliamento della sede operativa di Idrablu S.p.A. presso il depuratore in Regione Nosere a Domodossola.

I lavori consisteranno nella costruzione di una porzione in ampliamento strutturalmente indipendente dal resto del fabbricato per l'ampliamento degli spogliatoi.

La porzione in ampliamento avrà struttura indipendente in c.a. e copertura piana in latero cemento, i tamponamenti saranno eseguiti in laterizio.

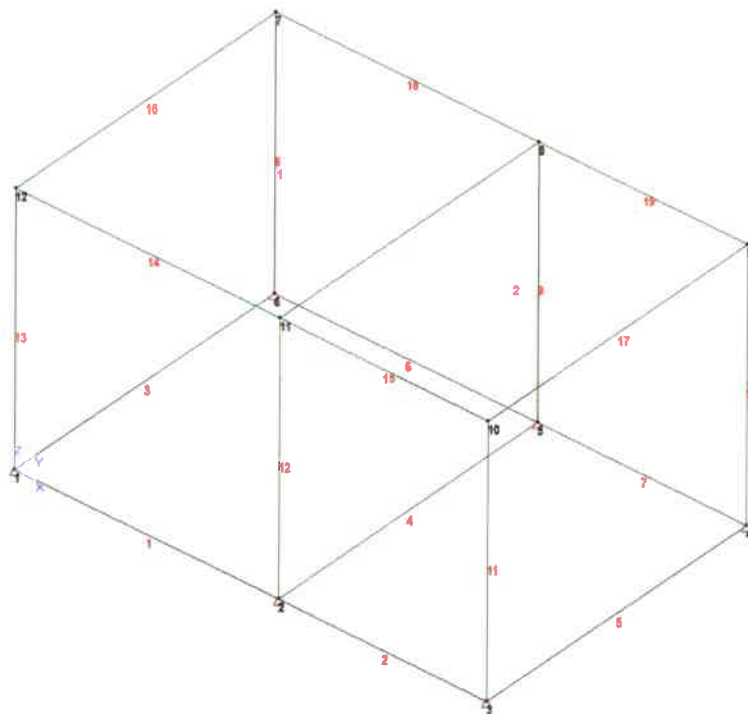
Essendo il Comune di Domodossola classificato come Comune sismico di 3 categoria le sollecitazioni sono state ricavate dall'analisi sismica allegata, eseguita secondo quanto previsto dalle N.T.C. 2008 di cui al Decreto ministeriale 14/01/2008.

Il calcolo è stato condotto sia nei riguardi dei carichi statici (peso proprio, neve) che nei riguardi dei carichi sismici utilizzando un'Analisi Modale con Spettro di Risposta.

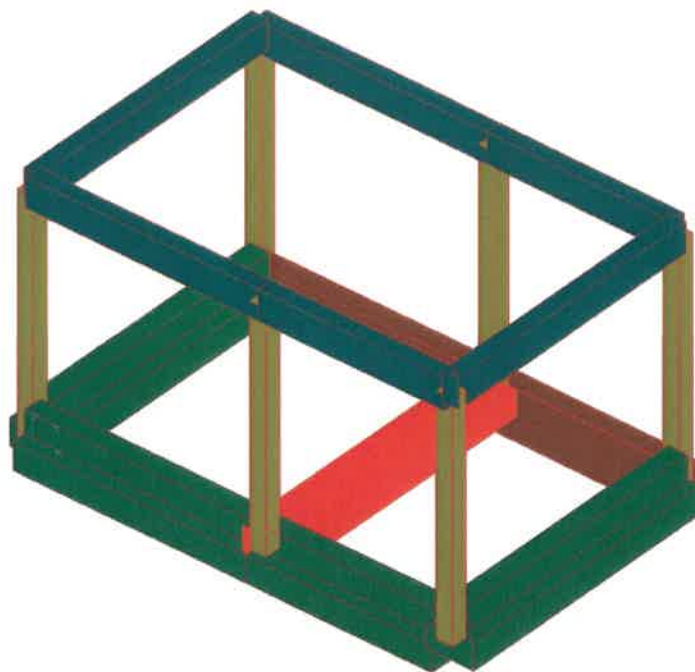
Il calcolo è stato eseguito con il metodo degli stati limite sia nei riguardi degli SLU (Stati Limite Ultimi) che degli SLE (Stati Limite di Esercizio) utilizzando come programma il pre-post processore Civilsoft della Asg di Piacenza con solutore Algor.

Si riportano nel seguito le viste dei modelli della scala e della fondazione.

Modello unifilare



Modello 3D



Si riportano nel seguito i principali risultati dei calcoli dell'analisi statica e dinamica.

2. RISULTATI ANALISI STATICA

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*****
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*                               CIVILSOFT v.windows 6.997
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*      progettazione interattiva di strutture civili ed industriali
*
*
*
*
* prodotto e distribuito da ASG srl PIACENZA Tel 0523/337389 Fax 0523/337071
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*                               RELAZIONE DI CALCOLO
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DESCRIZIONE TABELLA DATI NODALI

Di seguito si riportano le spiegazioni delle sigle usate nella
tabella DATI NODALI.
Per ogni nodo identificato da un numero sono scritte le condizioni
di vincolo delle sue 6 componenti di movimento ( traslazioni lungo
gli assi X, Y, Z globali, rotazioni attorno agli assi X, Y, Z
globali; codice = 0 componente libera, codice = 1 comp. impedita),
le sue tre coordinate rispetto alla terna di assi globale e la
temperatura in gradi centigradi.

NODO : Numero identificativo del nodo
n.ro
Tx    : Codice di vincolamento per la traslazione in direzione X
        = 0 consentita, = 1 impedita
```

ELEM. n.ro	numero dell' elemento trave
NODO I	numero del nodo iniziale della trave
NODO J	numero del nodo finale della trave
BETA ANGOLO	angolo in gradi sessagesimali per l'orientamento della trave
SVINC I	codice di rilascio per l' estremo i della trave
SVINC J	codice di rilascio per l' estremo j della trave
SEZ. n.ro	numero della sezione costituente la trave
MAT. n.ro	numero del materiale costituente la trave
FOND.	codice per identificare le travi di fondazione su suolo alla Winkler: 0 ==> trave in elevazione 1 ==> trave di fondazione

K TERR. modulo di Winkler del terreno
 FILO I codice del tipo di filo fisso per il nodo i
 FILO J codice del tipo di filo fisso per il nodo j
 elem.secondario se appare questa scritta allora l'elemento e' secondario
 nel senso del p.to 7.2.3 NTC 2008

Per la descrizione del significato dei codici di filo fisso, usati per le travi, si rimanda alla documentazione fornita con il programma.

Il codice 0, lascia immutata la posizione dell'asse della trave. Per i codici da 1 a 2, il programma calcola gli scostamenti DX e DY del filo fisso rispetto all'asse baricentrico della trave. Il codice 9, si usa quando gli scostamenti DX e DY, sono digitati direttamente.

Nel caso di travi inclinate rispetto ad XY, per avere l'effetto dei codici 1 e 2, basta ragionare per continuita' ruotando, in senso antiorario il segmento che rappresenta l'asse della trave.

Sistema di riferimento locale per travi :

definizione asse locale 1 : dal nodo I al nodo J
 si definisce un terzo nodo, detto nodo K, in base all'angolo BETA in modo che se BETA=0, il nodo K si trova nel piano verticale che comprende la trave, diversamente tale piano ruota dell'angolo BETA
 definizione assi locali 2, 3: definiti i nodi I, J, si traccia il piano passante per la retta I-J e per il nodo K; l'intersezione di tale piano con il piano normale ad I-J (piano della sezione della trave), individua l'asse 2 rivolto sempre dalla parte del nodo K; l'asse 3 e' definito in direzione e verso se si impone che la terna sia destrorsa.

Codici di rilascio (o svincolamento) per travi :

Vi e' un codice di rilascio per ognuno dei 6 gradi di liberta' dei 2 nodi estremi dell'elemento: se il codice e' 0, l'estremo della trave risulta solidale con la restante struttura nei riguardi di movimenti lungo l'asse locale considerato; se il codice vale 1, invece risulta sconnesso.

I codici di rilascio sono espressi nel riferimento locale.

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DATI DI INGRESSO : TABELLA DATI TRAVI

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ELEM. n.ro	NODO I	NODO J	BETA ANGOLO	SVINC. I	SVINC. J	SEZ n.ro	MAT n.ro	FOND.	K TERR. (Kg/cm3)	FILO I	FILO J
1	1	2	0.0	000000	000000	1	1	1	8.0	0	0
2	2	3	0.0	000000	000000	1	1	1	8.0	0	0
3	1	6	0.0	000000	000000	1	1	1	8.0	0	0
4	2	5	0.0	000000	000000	2	1	1	8.0	0	0
5	3	4	0.0	000000	000000	1	1	1	8.0	0	0
6	6	5	0.0	000000	000000	5	1	1	8.0	0	0
7	5	4	0.0	000000	000000	5	1	1	8.0	0	0
14	12	11	0.0	000000	000000	4	1	0	0.0	0	0
15	11	10	0.0	000000	000000	4	1	0	0.0	0	0
16	12	7	0.0	000000	000000	4	1	0	0.0	0	0
17	10	9	0.0	000000	000000	4	1	0	0.0	0	0
18	7	8	0.0	000000	000000	4	1	0	0.0	0	0
19	8	9	0.0	000000	000000	4	1	0	0.0	0	0

DESCRIZIONE TABELLA DATI PILASTRI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella DATI PILASTRI:

ELEM. N.RO numero dell'elemento pilastro
 NODO I numero del nodo iniziale del pilastro
 NODO J numero del nodo finale del pilastro
 BETA ANGOLO angolo in gradi sessagesimali per l'orientamento del pilastro
 SVINC I codice di rilascio per l'estremo i del pilastro
 SVINC J codice di rilascio per l'estremo j del pilastro
 SEZ. n.ro numero della sezione costituente il pilastro
 MAT. n.ro numero del materiale costituente il pilastro
 FOND. campo non utilizzato per i pilastri
 FILO I codice del tipo di filo fisso per il nodo i
 FILO J codice del tipo di filo fisso per il nodo j
 elem.secondario se appare questa scritta allora l'elemento e' secondario
 nel senso del p.to 7.2.3 NTC 2008

Fili fissi di pilastri:

Per la descrizione del significato dei codici di filo fisso, si rimanda alla documentazione fornita con il programma.

Per i codici da 1 a 8, il programma calcola gli scostamenti DX e DY del filo fisso rispetto all'asse baricentrico del pilastro.

Il codice 0, lascia immutata la posizione dell'asse del pilastro.

Il codice 9, si usa quando gli scostamenti DX e DY, sono digitati direttamente.

Sistema di riferimento locale per pilastri:

definizione asse locale 1 : dal nodo I al nodo J

si definisce un terzo nodo, detto nodo K, in base all'angolo BETA in modo che se BETA=0, il nodo K si trova nel piano definito dal pilastro e dalla direzione Y, diversamente tale piano ruota dell'angolo BETA

definizione assi locali 2, 3: definiti i nodi I, J, e' possibile tracciare il piano passante per la retta I-J e per il nodo K; la intersezione di tale piano con il piano normale ad I-J (piano della sezione della trave), individua l'asse 2 rivolto sempre dalla parte del nodo K; l'asse 3 risulta a questo punto definito in direzione e verso poiche' si impone che la terna sia destrorsa.

Codici di rilascio (o svincolamento) per pilastri:

Vi e' un codice di rilascio per ognuno dei 6 gradi di liberta' dei 2 nodi estremi dell'elemento: se il codice e' 0, l'estremo del pilastro risulta solidale con la restante struttura nei riguardi di movimenti lungo l'asse locale considerato; se il codice vale 1, invece risulta sconnesso.

I codici di rilascio sono espressi nel riferimento locale.

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DATI DI INGRESSO : TABELLA DATI PILASTRI

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ELEM. n.ro	NODO I	NODO J	BETA ANGOLO	SVINC. I	SVINC. J	SEZ n.ro	MAT n.ro	FOND.	FILO I	FILO J
8	6	7	0.0	000000	000000	3	1	0	0	0
9	5	8	0.0	000000	000000	3	1	0	0	0
10	4	9	0.0	000000	000000	3	1	0	0	0
11	3	10	0.0	000000	000000	3	1	0	0	0
12	2	11	0.0	000000	000000	3	1	0	0	0
13	1	12	0.0	000000	000000	3	1	0	0	0

DESCRIZIONE TABELLA DATI INCASTRI PARZIALI TRAVI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella DATI INCASTRI PARZIALI TRAVI:

ELEM. n.ro numero dell' elemento trave
NODO I numero del nodo iniziale della trave
NODO J numero del nodo finale della trave
SVINC PARZ. I coeff.moltiplicativi rigidezza flessionale al nodo I
SVINC PARZ. J coeff.moltiplicativi rigidezza flessionale al nodo J

I coefficienti moltiplicativi della rigidezza flessionale per i nodi I,J della trave, sono riferiti alle rotazioni R2, R3 rispettivamente intorno agli assi 2, 3 della terna locale in I,J.

Il valore max dei coefficienti e' 1., corrispondente alla situazione di incastro.

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DATI DI INGRESSO : TABELLA INCASTRI PARZIALI TRAVI

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ELEM.	NODO	NODO	SVINCOLI PARZIALI			
n.ro	I	J	I(R2)	I(R3)	J(R2)	J(R3)

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DATI DI INGRESSO : MACRO ELEMENTI

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N.RO TRAVATE : 9
N.RO PILASTRATE : 6
N.RO IMPALCATI : 2

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DATI DI INGRESSO : MACRO ELEMENTI

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TRAVATA COMPOSIZIONE
n.ro

1	1 -	2
2	6 -	7
3	3	
4	4	
5	5	
6	14 -	15
7	18 -	19
8	16	
9	17	

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DATI DI INGRESSO : MACRO ELEMENTI

=====

PILASTRATA COMPOSIZIONE
n.ro

1	13
2	12
3	11
4	8
5	9
6	10

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DATI DI INGRESSO : MACRO ELEMENTI

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IMPALCATO ZINI ZFIN
n.ro (cm) (cm)

1	-0.10	0.10
2	354.90	355.10

DESCRIZIONE TABELLA DATI SEZIONI PRISMATICHE

Di seguito si riportano le spiegazioni delle sigle usate nelle tabelle DATI SEZIONI PRISMATICHE. Le tipologie previste sono:

1. Rettangolare	5. a T	9. ad U
2. Rettangolare cava	6. a doppio T	10. Poligonale
3. Circolare	7. a croce	11. Poligonale cava
4. Circolare cava	8. ad L	

Le sezioni sono riferite al sistema di riferimento 'locale', nel piano trasversale di travi, pilastri ed aste (assi locali 2, 3). Nelle tabelle sono usate sigle il cui significato e' illustrato nella documentazione fornita con il programma.

Aree ed inerzie sono nel rif. locale:

AREA area della sezione
JT inerzia torsionale
J2 inerzia flessionale intorno asse 2
J3 inerzia flessionale intorno asse 3
W2 modulo resistenza intorno asse 2
W3 modulo resistenza intorno asse 3

Le 'basi' (b,bi,...) sono parallele all'asse locale 3 della sez.
Le 'altezze' (h,ht,..) sono parallele all'asse locale 2 della sez.
Le sezioni poligonali sono descritte con le coordinate, rispetto agli assi locali 2 e 3, dei vertici della sezione.

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DATI DI INGRESSO : TABELLA DATI SEZIONI PRISMATICHE

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SEZIONI "RETTANGOLARI"

SEZ.	b	h	rot
------	---	---	-----

n.ro	(cm)	(cm)	(gradi)
2	70.0	40.0	0.0
3	25.0	25.0	0.0
4	25.0	45.0	0.0

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DATI DI INGRESSO : TABELLA DATI SEZIONI PRISMATICHE

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SEZIONI A "Doppio T e T rovescio"

SEZ. n.ro	bi (cm)	bn (cm)	bs (cm)	ht (cm)	hi (cm)	hs (cm)	rot (gradi)
1	70.0	30.0	30.0	75.0	40.0	0.0	0.0

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DATI DI INGRESSO : SEZIONI

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SEZ.
n.ro

1 I bi=70. bn=30. bs=30. ht=75. hi=40. hs=0.
 2 RETT. b=70. h=40.
 3 RETT. b=25. h=25.
 4 RETT. b=25. h=45.
 5 L bi=70. ht=75. bs=30. hs=35.

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DATI DI INGRESSO : AREE ED INERZIE NEL RIFERIMENTO LOCALE

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SEZ. n.ro	AREA (cm2)	J2 (cm4)	J3 (cm4)	JT (cm4)	W2 (cm3)	W3 (cm3)
1	3850.0	1222083.3	1554384.5	1100633.3	34916.7	34717.2
2	2800.0	1143333.3	373333.3	955733.3	32666.7	18666.7
3	625.0	32552.1	32552.1	48177.1	2604.2	2604.2
4	1125.0	58593.8	189843.8	152343.8	4687.5	8437.5
5	3650.0	1412608.4	1542809.6	875185.4	33977.1	34154.7

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DATI DI INGRESSO : MODULI PLASTICI NEL RIFERIMENTO LOCALE

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SEZ. n.ro	Z2 (cm3)	Z3 (cm3)
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1	56875.0	63437.5
2	49000.0	28000.0
3	3906.3	3906.3
4	7031.3	12656.3
5	59341.7	61294.6

DESCRIZIONE TABELLA DATI MATERIALI

Di seguito si riportano le spiegazioni delle sigle usate nelle
tabelle DATI MATERIALI.

MAT. n.ro	numero identificativo del materiale (>= 1)
PESO SPEC.	peso dell' unita' di volume del materiale
ALFA T	coefficiente di dilatazione termica
E	modulo di elasticita'
POISSON	coefficiente di contrazione laterale impedita
NOME	descrizione del materiale (max. 11 caratteri)

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DATI DI INGRESSO : TABELLA DATI MATERIALI

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MAT. n.ro	PESO SPEC. (Kg/cm3)	ALFA T (1/C)	E (Kg/cm2)	POISSON	NOME
1	0.00250	0.000010	300000.0	0.1	c.a.o.
2	0.00000	0.000010	200000.0	0.1	

DESCRIZIONE TABELLE DATI CARICHI

I carichi sono organizzati in 'condizioni di carico, a loro volta suddivise in:

1) casi di carico

2) combinazioni dei casi di carico

Nell'ambito di una generica condizione di carico possono esserci:

- carichi nodali (compresi cedimenti, variazioni termiche nodali)

- carichi sugli elementi (comprese variazioni termiche)

TABELLA DATI CASI DI CARICO E COMBINAZIONI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella DATI CASI DI CARICO E COMBINAZIONI:

CASO numero del caso di carico

n.ro

DESCRIZIONE descrizione sintetica del caso di carico

COMB. numero della combinazione del caso di carico

n.ro

DESCRIZIONE composizione della combinazione; per ogni caso di carico coinvolto nella combinazione, viene riportato il relativo numero ed il valore del coefficiente moltiplicativo ('peso del caso di carico nella combinazione).

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DATI DI INGRESSO : CASI DI CARICO E COMBINAZIONI

CASI DI CARICO

CASO DESCRIZIONE
n.ro

1 c.d.c. 1 peso proprio
2 peso proprio impalcati
3 perm.portato impalcati
4 neve
5 sovraccarico impalcati

COMBINAZIONI

COMB. DESCRIZIONE
n.ro

1 $1*1.3 + 2*1.3 + 3*1.5 + 4*1.5$
2 $1*1.3 + 2*1.3 + 3*1.5 + 4*0.75 + 5*1.5$
3 $1*1 + 2*1 + 3*1.3 + 4*1.3$
4 $1*1 + 2*1 + 3*1.3 + 4*0.65 + 5*1.3$
5 $1*1 + 2*1 + 3*1 + 4*1$
6 $1*1 + 2*1 + 3*1 + 4*0.5 + 5*1$
7 $1*1 + 2*1 + 3*1 + 4*0.2$
8 $1*1 + 2*1 + 3*1$
9 $1*1 + 2*1 + 3*1$

COMBINAZIONI SISMICHE ASTE, TRAVI PER ANALISI DINAMICA

COMB. COMB.STATICA PERMUTAZIONE
n.ro CONTEMPORANEA

10 9 +N +M3 (SISMA DIR. 1)
11 9 +N -M3 (SISMA DIR. 1)
12 9 -N +M3 (SISMA DIR. 1)
13 9 -N -M3 (SISMA DIR. 1)
14 9 +N +M3 (SISMA DIR. 2)
15 9 +N -M3 (SISMA DIR. 2)
16 9 -N +M3 (SISMA DIR. 2)
17 9 -N -M3 (SISMA DIR. 2)
18 9 +N +M3 (SISMA DIR. Z)
19 9 +N -M3 (SISMA DIR. Z)
20 9 -N +M3 (SISMA DIR. Z)

COMBINAZIONI SISMICHE ASTE, PILASTRI PER ANALISI DINAMICA

COMB. n.ro	COMB.STATICA CONTEMPORANEA	PERMUTAZIONE			
22	9	+N	+M2	+M3	(SISMA DIR. 1)
23	9	+N	+M2	-M3	(SISMA DIR. 1)
24	9	+N	-M2	-M3	(SISMA DIR. 1)
25	9	+N	-M2	+M3	(SISMA DIR. 1)
26	9	-N	+M2	+M3	(SISMA DIR. 1)
27	9	-N	+M2	-M3	(SISMA DIR. 1)
28	9	-N	-M2	-M3	(SISMA DIR. 1)
29	9	-N	-M2	+M3	(SISMA DIR. 1)
30	9	+N	+M2	+M3	(SISMA DIR. 2)
31	9	+N	+M2	-M3	(SISMA DIR. 2)
32	9	+N	-M2	-M3	(SISMA DIR. 2)
33	9	+N	-M2	+M3	(SISMA DIR. 2)
34	9	-N	+M2	+M3	(SISMA DIR. 2)
35	9	-N	+M2	-M3	(SISMA DIR. 2)
36	9	-N	-M2	-M3	(SISMA DIR. 2)
37	9	-N	-M2	+M3	(SISMA DIR. 2)
38	9	+N	+M2	+M3	(SISMA DIR. Z)
39	9	+N	+M2	-M3	(SISMA DIR. Z)
40	9	+N	-M2	-M3	(SISMA DIR. Z)
41	9	+N	-M2	+M3	(SISMA DIR. Z)
42	9	-N	+M2	+M3	(SISMA DIR. Z)
43	9	-N	+M2	-M3	(SISMA DIR. Z)
44	9	-N	-M2	-M3	(SISMA DIR. Z)
45	9	-N	-M2	+M3	(SISMA DIR. Z)

DATI DI INGRESSO : TABELLA DATI ARCHIVI DI CARICO

ARCH. n.ro	PESO PROP. (Kg/m2)	SOVR. PERM. (Kg/m2)	SOVR. ACC. (Kg/m2)	RID.SIS.
1	315.0	260.0	125.0	0.00
2	0.0	0.0	100.0	0.30

DATI DI INGRESSO : TABELLA DATI ZONE DI CARICO SOLAI

ZONA n.ro	ARCH. n.ro	QUOTA (m)	DIR. rel.X (gradi)	AREA (m2)	PESO PROP. (Kg)	SOVR. PERM. (Kg)	SOVR. ACC. (Kg)
1	1	3.6	Y	26.5	8340.3	6884.0	3309.6
2	2	3.6	Y	26.5	0.0	0.0	2647.7

CARICHI COMPLESSIVI ZONE DI CARICO SOLAI

AREA (m2)	PESO PROP. (Ton)	SOVR. PERM. (Ton)	SOVR. ACC. (Ton)
53.0	8.3	6.9	6.0

TABELLA DATI CARICHI NODALI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella DATI CARICHI NODALI. Relativamente ad ogni caso di carico, sono elencate, per ogni nodo non completamente vincolato, i valori delle 6 componenti di carico (3 forze e 3 momenti) riferite alla terna globale:

NODO	numero del nodo di applicazione del carico					
n.ro						
Fx	componente della forza in direzione X					
Fy	'	'	'	'	'	Y
Fz	'	'	'	'	'	Z
Mx	componente del momento in direzione X					
My	'	'	'	'	'	Y
Mz	'	'	'	'	'	Z

Nota: per componente del momento in una direzione, si intende la componente del vettore asse-momento in quella direzione. La componente Fx della forza e' positiva se concorde con l'asse X; analogamente per Fy, Fz. La componente Mx del momento e' positiva se concorde con l'asse X; analogamente per My, Mz.

TABELLA DATI CEDIMENTI NODALI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella DATI CEDIMENTI NODALI.

NODO	numero del nodo di applicazione del cedimento					
n.ro						
Tx	componente del cedimento lineare in X					
Ty	'	'	'	'	'	Y
Tz	'	'	'	'	'	Z
Rx	componente del cedimento angolare intorno ad X					
Ry	'	'	'	'	'	Y
Rz	'	'	'	'	'	Z

TABELLA DATI CARICHI TRAVI E PILASTRI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella DATI CARICHI TRAVI E PILASTRI. Relativamente ad ogni caso di carico, vengono elencate, per ogni trave, le seguenti grandezze:

ELEM./	numero dell' elemento					
TRATTO	numero del tratto di carico sull' elemento					
xi	ascissa del 1o estremo del tratto di carico					
xf	'	2o	'	'	'	'
Fxi	componente della forza in direzione X nel 1o estremo					
Fyi	'	'	'	'	'	Y
Fzi	'	'	'	'	'	Z
Fxf	componente della forza in direzione X nel 2o estremo					
Fyf	'	'	'	'	'	Y
Fzf	'	'	'	'	'	Z
Mxi	componente del momento in direzione X nel 1o estremo					
Myi	'	'	'	'	'	Y
Mzi	'	'	'	'	'	Z
Mxf	componente del momento in direzione X nel 2o estremo					
Myf	'	'	'	'	'	Y
Mzf	'	'	'	'	'	Z

Nota: L' ascissa viene misurata dal nodo iniziale I della trave (o pilastro), dove vale 0., al nodo finale J, dove vale la lunghezza della trave (o pilastro).
 Nota: Ponendo xi = xf # 0., il programma assume che il carico e' concentrato nel punto di ascissa x = xi = xf , con il valore scritto per Fxi, Fyi, Fzi (o Mxi, Myi, Mzi).
 Nota: Quando, in stampa, appare la lettera 'L' (i.e. locale) accanto ad numero del tratto di carico, significa che i carichi sono espressi nel riferimento locale; pertanto in tal caso i simboli hanno il seguente significato:

Fxi	componente della forza in direzione 1 nel 1o estremo					
Fyi	'	'	'	'	'	2

Fzi					3			
Fxf	componente della forza in direzione				1	nel	2o	estremo
Fyf					2			
Fzf					3			
Mxi	componente del momento in direzione				1	nel	1o	estremo
Myi					2			
Mzi					3			
Mxf	componente del momento in direzione				1	nel	2o	estremo
Myf					2			
Mzf					3			

TABELLA DATI CARICHI TERMICI NODALI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella DATI CARICHI TERMICI NODALI.

NODO numero del nodo
n.ro
Temp temperatura del nodo in gradi centigradi

TABELLA DATI CARICHI TERMICI TRAVI E PILASTRI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella DATI CARICHI TERMICI TRAVI E PILASTRI.
Relativamente ad ogni caso di carico termico, vengono elencate per ogni trave, le seguenti grandezze:

ELEM.	numero dell' elemento							
DT uniforme	delta T costante sull' intero elemento							
DT nodo I	delta T nel nodo I							
DT nodo J	delta T nel nodo J							
DT da 2- a 2+ nodo I	delta T nel nodo I lungo l' asse locale 2							
DT da 2- a 2+ nodo J					J			
DT da 3- a 3+ nodo I					I			3
DT da 3- a 3+ nodo J					J			

TABELLA DATI CARICHI TERMICI SETTI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella DATI CARICHI TERMICI SETTI.
Relativamente ad ogni caso di carico, vengono elencate, per ogni trave, le seguenti grandezze:

ELEM.	numero dell' elemento setto	
DT uniforme	variazione di temperatura uniforme sull' elemento	
DT spessore	variazione di temperatura lineare dall'intradosso all' estradosso dell' elemento.	

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DATI DI INGRESSO : TABELLA CARICHI TRAVI CASO DI CARICO 1

=====

ELEM/ TRATTO	xi xf	Fxi Fxf	Fyi Fyf	Fzi Fzf	Mxi Mxf	Myi Myf	Mzi Mzf
n.ro	(m)	(Kg/m)	(Kg/m)	(Kg/m)	(Kg/m)	(Kg/m)	(Kg/m)
1/ 1	0.00	0.00	0.00	-962.50	0.00	0.00	0.00
	3.56	0.00	0.00	-962.50	0.00	0.00	0.00
2/ 1	0.00	0.00	0.00	-962.50	0.00	0.00	0.00
	2.83	0.00	0.00	-962.50	0.00	0.00	0.00
3/ 1	0.00	0.00	0.00	-962.50	0.00	0.00	0.00
	4.15	0.00	0.00	-962.50	0.00	0.00	0.00
4/ 1	0.00	0.00	0.00	-700.00	0.00	0.00	0.00
	4.15	0.00	0.00	-700.00	0.00	0.00	0.00
5/ 1	0.00	0.00	0.00	-962.50	0.00	0.00	0.00
	4.15	0.00	0.00	-962.50	0.00	0.00	0.00
6/ 1	0.00	0.00	0.00	-912.50	0.00	0.00	0.00
	3.56	0.00	0.00	-912.50	0.00	0.00	0.00
7/ 1	0.00	0.00	0.00	-912.50	0.00	0.00	0.00
	2.83	0.00	0.00	-912.50	0.00	0.00	0.00
14/ 1	0.00	0.00	0.00	-281.25	0.00	0.00	0.00
	3.56	0.00	0.00	-281.25	0.00	0.00	0.00
15/ 1	0.00	0.00	0.00	-281.25	0.00	0.00	0.00
	2.83	0.00	0.00	-281.25	0.00	0.00	0.00
16/ 1	0.00	0.00	0.00	-281.25	0.00	0.00	0.00

		4.15	0.00	0.00	-281.25	0.00	0.00	0.00
17/	1	0.00	0.00	0.00	-281.25	0.00	0.00	0.00
		4.15	0.00	0.00	-281.25	0.00	0.00	0.00
18/	1	0.00	0.00	0.00	-281.25	0.00	0.00	0.00
		3.56	0.00	0.00	-281.25	0.00	0.00	0.00
19/	1	0.00	0.00	0.00	-281.25	0.00	0.00	0.00
		2.83	0.00	0.00	-281.25	0.00	0.00	0.00

=====

DATI DI INGRESSO : TABELLA CARICHI PILASTRI CASO DI CARICO 1

=====

ELEM/ TRATTO	xi xf	Fxi Fxf	Fyi Fyf	Fzi Fzf	Mxi Mxf	Myi Myf	Mzi Mzf
n.ro	(m)	(Kg/m)	(Kg/m)	(Kg/m)	(Kg/m)	(Kg/m)	(Kg/m)
8/	1	0.00	0.00	0.00	-156.25	0.00	0.00
		3.55	0.00	0.00	-156.25	0.00	0.00
9/	1	0.00	0.00	0.00	-156.25	0.00	0.00
		3.55	0.00	0.00	-156.25	0.00	0.00
10/	1	0.00	0.00	0.00	-156.25	0.00	0.00
		3.55	0.00	0.00	-156.25	0.00	0.00
11/	1	0.00	0.00	0.00	-156.25	0.00	0.00
		3.55	0.00	0.00	-156.25	0.00	0.00
12/	1	0.00	0.00	0.00	-156.25	0.00	0.00
		3.55	0.00	0.00	-156.25	0.00	0.00
13/	1	0.00	0.00	0.00	-156.25	0.00	0.00
		3.55	0.00	0.00	-156.25	0.00	0.00

=====

DATI DI INGRESSO : TABELLA CARICHI TRAVI CASO DI CARICO 2

=====

ELEM/ TRATTO	xi xf	Fxi Fxf	Fyi Fyf	Fzi Fzf	Mxi Mxf	Myi Myf	Mzi Mzf
n.ro	(m)	(Kg/m)	(Kg/m)	(Kg/m)	(Kg/m)	(Kg/m)	(Kg/m)
14/	1	0.00	0.00	0.00	-280.00	0.00	0.00
		3.56	0.00	0.00	-280.00	0.00	0.00
14/	2	0.00	0.00	0.00	-653.63	0.00	0.00
		3.56	0.00	0.00	-653.63	0.00	0.00
15/	1	0.00	0.00	0.00	-280.00	0.00	0.00
		2.83	0.00	0.00	-280.00	0.00	0.00
15/	2	0.00	0.00	0.00	-653.63	0.00	0.00
		2.83	0.00	0.00	-653.63	0.00	0.00
16/	1	0.00	0.00	0.00	-280.00	0.00	0.00
		4.15	0.00	0.00	-280.00	0.00	0.00
17/	1	0.00	0.00	0.00	-280.00	0.00	0.00
		4.15	0.00	0.00	-280.00	0.00	0.00
18/	1	0.00	0.00	0.00	-280.00	0.00	0.00
		3.56	0.00	0.00	-280.00	0.00	0.00
18/	2	0.00	0.00	0.00	-653.63	0.00	0.00
		3.56	0.00	0.00	-653.63	0.00	0.00
19/	1	0.00	0.00	0.00	-280.00	0.00	0.00
		2.83	0.00	0.00	-280.00	0.00	0.00
19/	2	0.00	0.00	0.00	-653.63	0.00	0.00
		2.83	0.00	0.00	-653.63	0.00	0.00

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DATI DI INGRESSO : TABELLA CARICHI TRAVI CASO DI CARICO 3

=====

ELEM/ TRATTO	xi xf	Fxi Fxf	Fyi Fyf	Fzi Fzf	Mxi Mxf	Myi Myf	Mzi Mzf
n.ro	(m)	(Kg/m)	(Kg/m)	(Kg/m)	(Kg/m)	(Kg/m)	(Kg/m)
14/	1	0.00	0.00	0.00	-195.00	0.00	0.00
		3.56	0.00	0.00	-195.00	0.00	0.00
14/	2	0.00	0.00	0.00	-539.50	0.00	0.00
		3.56	0.00	0.00	-539.50	0.00	0.00
15/	1	0.00	0.00	0.00	-195.00	0.00	0.00
		2.83	0.00	0.00	-195.00	0.00	0.00
15/	2	0.00	0.00	0.00	-539.50	0.00	0.00
		2.83	0.00	0.00	-539.50	0.00	0.00
16/	1	0.00	0.00	0.00	-195.00	0.00	0.00
		4.15	0.00	0.00	-195.00	0.00	0.00
17/	1	0.00	0.00	0.00	-195.00	0.00	0.00
		4.15	0.00	0.00	-195.00	0.00	0.00
18/	1	0.00	0.00	0.00	-195.00	0.00	0.00
		3.56	0.00	0.00	-195.00	0.00	0.00
18/	2	0.00	0.00	0.00	-539.50	0.00	0.00

	3.56	0.00	0.00	-539.50	0.00	0.00	0.00
19/ 1	0.00	0.00	0.00	-195.00	0.00	0.00	0.00
	2.83	0.00	0.00	-195.00	0.00	0.00	0.00
19/ 2	0.00	0.00	0.00	-539.50	0.00	0.00	0.00
	2.83	0.00	0.00	-539.50	0.00	0.00	0.00

=====

DATI DI INGRESSO : TABELLA CARICHI TRAVI CASO DI CARICO 4

=====

ELEM/ TRATTO n.ro	xi xf (m)	Fxi Fxf (Kg/m)	Fyi Fyf (Kg/m)	Fzi Fzf (Kg/m)	Mxi Mxf (Kg/m/m)	Myi Myf (Kg/m/m)	Mzi Mzf (Kg/m/m)
14/ 1	0.00	0.00	0.00	-95.00	0.00	0.00	0.00
	3.56	0.00	0.00	-95.00	0.00	0.00	0.00
14/ 2	0.00	0.00	0.00	-259.38	0.00	0.00	0.00
	3.56	0.00	0.00	-259.38	0.00	0.00	0.00
15/ 1	0.00	0.00	0.00	-95.00	0.00	0.00	0.00
	2.83	0.00	0.00	-95.00	0.00	0.00	0.00
15/ 2	0.00	0.00	0.00	-259.38	0.00	0.00	0.00
	2.83	0.00	0.00	-259.38	0.00	0.00	0.00
16/ 1	0.00	0.00	0.00	-95.00	0.00	0.00	0.00
	4.15	0.00	0.00	-95.00	0.00	0.00	0.00
17/ 1	0.00	0.00	0.00	-95.00	0.00	0.00	0.00
	4.15	0.00	0.00	-95.00	0.00	0.00	0.00
18/ 1	0.00	0.00	0.00	-95.00	0.00	0.00	0.00
	3.56	0.00	0.00	-95.00	0.00	0.00	0.00
18/ 2	0.00	0.00	0.00	-259.38	0.00	0.00	0.00
	3.56	0.00	0.00	-259.38	0.00	0.00	0.00
19/ 1	0.00	0.00	0.00	-95.00	0.00	0.00	0.00
	2.83	0.00	0.00	-95.00	0.00	0.00	0.00
19/ 2	0.00	0.00	0.00	-259.38	0.00	0.00	0.00
	2.83	0.00	0.00	-259.38	0.00	0.00	0.00

=====

DATI DI INGRESSO : TABELLA CARICHI TRAVI CASO DI CARICO 5

=====

ELEM/ TRATTO n.ro	xi xf (m)	Fxi Fxf (Kg/m)	Fyi Fyf (Kg/m)	Fzi Fzf (Kg/m)	Mxi Mxf (Kg/m/m)	Myi Myf (Kg/m/m)	Mzi Mzf (Kg/m/m)
14/ 1	0.00	0.00	0.00	-75.00	0.00	0.00	0.00
	3.56	0.00	0.00	-75.00	0.00	0.00	0.00
14/ 2	0.00	0.00	0.00	-207.50	0.00	0.00	0.00
	3.56	0.00	0.00	-207.50	0.00	0.00	0.00
15/ 1	0.00	0.00	0.00	-75.00	0.00	0.00	0.00
	2.83	0.00	0.00	-75.00	0.00	0.00	0.00
15/ 2	0.00	0.00	0.00	-207.50	0.00	0.00	0.00
	2.83	0.00	0.00	-207.50	0.00	0.00	0.00
16/ 1	0.00	0.00	0.00	-75.00	0.00	0.00	0.00
	4.15	0.00	0.00	-75.00	0.00	0.00	0.00
17/ 1	0.00	0.00	0.00	-75.00	0.00	0.00	0.00
	4.15	0.00	0.00	-75.00	0.00	0.00	0.00
18/ 1	0.00	0.00	0.00	-75.00	0.00	0.00	0.00
	3.56	0.00	0.00	-75.00	0.00	0.00	0.00
18/ 2	0.00	0.00	0.00	-207.50	0.00	0.00	0.00
	3.56	0.00	0.00	-207.50	0.00	0.00	0.00
19/ 1	0.00	0.00	0.00	-75.00	0.00	0.00	0.00
	2.83	0.00	0.00	-75.00	0.00	0.00	0.00
19/ 2	0.00	0.00	0.00	-207.50	0.00	0.00	0.00
	2.83	0.00	0.00	-207.50	0.00	0.00	0.00

=====

DATI : PARAMETRI SISMICI

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Normativa sismica	:	NTC 14/01/2008
N.ro modi	:	10
Metodo di Analisi	:	Analisi Dinamica Lineare (Modale & Spettro di Risposta)
Quota fondazioni (zero sismico)	:	0.00
Angolo ingresso sisma dir.1-Asse x	:	0.0
Angolo ingresso sisma dir.2-Asse x	:	90.0
Categoria suolo	:	C
Zona topografica	:	1
Coeff. smorzamento	:	5.00
Coeff. struttura 'q' per SLU comp.oriz.:	:	1.60
Coeff. struttura 'q' per SLU comp.vert.:	:	1.50

```

ag per SLU      :      0.074 (g)
F0 per SLU      :      2.531
Tc* per SLU     :      0.290 sec.
ag per SLE      :      0.031 (g)
F0 per SLE      :      2.472
Tc* per SLE     :      0.200 sec.
Primo periodo di vibrazione struttura :      0.50

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DESCRIZIONE TABELLA SPOSTAMENTI E ROTAZIONI NODALI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella SPOSTAMENTI E ROTAZIONI NODALI.

Relativamente ad ogni condizione di carico esaminata, vengono elencati per ogni nodo non completamente vincolato, i valori delle 6 componenti di spostamento (3 traslazioni e 3 rotazioni) riferite alla terna globale.

NODO : Numero identificativo del nodo

n.ro

Tx : spostamento del nodo in direzione X

Ty : ' ' ' ' ' Y

Tz : ' ' ' ' ' Z

Rx : rotazione del nodo intorno all' asse X

Ry : ' ' ' ' ' Y

Rz : ' ' ' ' ' Z

Nota : sistema di riferimento globale

Il sistema di riferimento impiegato, per nodi ed elementi e tutti gli altri dati strutturali, e' una terna cartesiana XYZ destra.

Si assume che l' asse Z sia verticale ed orientato verso l'alto.

=====

RISULTATI : CASO DI CARICO 1 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0265	0.0016	-0.0015	-0.0000
2	0.0000	0.0000	-0.0227	0.0026	0.0002	0.0000
3	0.0000	0.0000	-0.0263	0.0016	0.0012	0.0000
4	0.0000	0.0000	-0.0256	-0.0014	0.0012	-0.0000
5	0.0000	0.0000	-0.0220	-0.0025	0.0002	-0.0000
6	0.0000	0.0000	-0.0259	-0.0014	-0.0015	0.0000
7	0.0012	-0.0006	-0.0282	0.0060	0.0020	0.0000
8	0.0012	-0.0006	-0.0247	0.0039	-0.0006	-0.0000
9	0.0012	-0.0006	-0.0277	0.0059	-0.0001	-0.0000
10	0.0012	-0.0005	-0.0284	-0.0058	-0.0001	0.0000
11	0.0012	-0.0006	-0.0254	-0.0037	-0.0006	0.0000
12	0.0012	-0.0005	-0.0289	-0.0058	0.0020	-0.0000

=====

RISULTATI : CASO DI CARICO 2 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0124	0.0021	-0.0009	-0.0000
2	0.0000	0.0000	-0.0123	0.0031	0.0001	0.0000
3	0.0000	0.0000	-0.0114	0.0020	0.0001	0.0000
4	0.0000	0.0000	-0.0113	-0.0019	0.0000	-0.0000
5	0.0000	0.0000	-0.0124	-0.0032	0.0001	-0.0000
6	0.0000	0.0000	-0.0124	-0.0021	-0.0009	0.0000
7	0.0021	-0.0000	-0.0161	0.0060	0.0094	0.0000
8	0.0021	0.0000	-0.0192	0.0040	-0.0027	0.0000
9	0.0021	0.0000	-0.0143	0.0059	-0.0040	-0.0000
10	0.0021	0.0000	-0.0143	-0.0059	-0.0039	0.0000
11	0.0021	0.0000	-0.0191	-0.0039	-0.0027	0.0000
12	0.0022	0.0000	-0.0162	-0.0060	0.0094	-0.0000

=====

RISULTATI : CASO DI CARICO 3 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0095	0.0016	-0.0006	-0.0000
2	0.0000	0.0000	-0.0096	0.0024	0.0001	0.0000
3	0.0000	0.0000	-0.0086	0.0015	-0.0000	0.0000
4	0.0000	0.0000	-0.0086	-0.0015	-0.0000	-0.0000
5	0.0000	0.0000	-0.0097	-0.0025	0.0001	-0.0000
6	0.0000	0.0000	-0.0095	-0.0016	-0.0006	0.0000
7	0.0017	0.0000	-0.0123	0.0042	0.0075	0.0000
8	0.0016	0.0000	-0.0150	0.0028	-0.0021	0.0000
9	0.0016	0.0000	-0.0108	0.0041	-0.0032	-0.0000
10	0.0016	0.0000	-0.0109	-0.0041	-0.0032	0.0000
11	0.0016	0.0000	-0.0150	-0.0028	-0.0021	0.0000
12	0.0017	0.0000	-0.0123	-0.0042	0.0075	-0.0000

=====

RISULTATI : CASO DI CARICO 4 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0046	0.0008	-0.0003	-0.0000
2	0.0000	0.0000	-0.0047	0.0012	0.0000	0.0000
3	0.0000	0.0000	-0.0042	0.0007	-0.0000	0.0000
4	0.0000	0.0000	-0.0042	-0.0007	-0.0000	-0.0000
5	0.0000	0.0000	-0.0047	-0.0012	0.0000	-0.0000
6	0.0000	0.0000	-0.0046	-0.0008	-0.0003	0.0000
7	0.0008	0.0000	-0.0060	0.0020	0.0036	0.0000
8	0.0008	0.0000	-0.0072	0.0014	-0.0010	0.0000
9	0.0008	0.0000	-0.0052	0.0020	-0.0015	-0.0000
10	0.0008	0.0000	-0.0053	-0.0020	-0.0015	0.0000
11	0.0008	0.0000	-0.0072	-0.0014	-0.0010	0.0000
12	0.0008	0.0000	-0.0060	-0.0020	0.0036	-0.0000

=====

RISULTATI : CASO DI CARICO 5 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0037	0.0006	-0.0002	-0.0000
2	0.0000	0.0000	-0.0037	0.0009	0.0000	0.0000
3	0.0000	0.0000	-0.0033	0.0006	-0.0000	0.0000
4	0.0000	0.0000	-0.0033	-0.0006	-0.0000	-0.0000
5	0.0000	0.0000	-0.0037	-0.0010	0.0000	-0.0000
6	0.0000	0.0000	-0.0036	-0.0006	-0.0002	0.0000
7	0.0006	0.0000	-0.0047	0.0016	0.0029	0.0000
8	0.0006	0.0000	-0.0058	0.0011	-0.0008	0.0000
9	0.0006	0.0000	-0.0042	0.0016	-0.0012	-0.0000
10	0.0006	0.0000	-0.0042	-0.0016	-0.0012	0.0000
11	0.0006	0.0000	-0.0058	-0.0011	-0.0008	0.0000
12	0.0006	0.0000	-0.0047	-0.0016	0.0029	-0.0000

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RISULTATI : COMBINAZIONE 1 : SPOSTAMENTI E ROTAZIONI NODALI

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NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0718	0.0083	-0.0045	-0.0000
2	0.0000	0.0000	-0.0669	0.0129	0.0007	0.0000
3	0.0000	0.0000	-0.0682	0.0080	0.0016	0.0000
4	0.0000	0.0000	-0.0672	-0.0077	0.0015	-0.0000
5	0.0000	0.0000	-0.0662	-0.0130	0.0007	-0.0000
6	0.0000	0.0000	-0.0709	-0.0080	-0.0045	0.0000
7	0.0080	-0.0007	-0.0851	0.0249	0.0314	0.0000
8	0.0080	-0.0007	-0.0904	0.0165	-0.0090	0.0000
9	0.0080	-0.0007	-0.0787	0.0246	-0.0124	-0.0000
10	0.0080	-0.0006	-0.0796	-0.0244	-0.0123	0.0000
11	0.0080	-0.0007	-0.0912	-0.0162	-0.0090	0.0000
12	0.0081	-0.0007	-0.0860	-0.0247	0.0314	-0.0000

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RISULTATI : COMBINAZIONE 2 : SPOSTAMENTI E ROTAZIONI NODALI

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NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0738	0.0087	-0.0046	-0.0000
2	0.0000	0.0000	-0.0690	0.0134	0.0007	0.0000
3	0.0000	0.0000	-0.0700	0.0083	0.0015	0.0000
4	0.0000	0.0000	-0.0691	-0.0080	0.0015	-0.0000
5	0.0000	0.0000	-0.0682	-0.0135	0.0007	-0.0000
6	0.0000	0.0000	-0.0729	-0.0084	-0.0046	0.0000
7	0.0084	-0.0007	-0.0877	0.0258	0.0330	0.0000
8	0.0083	-0.0007	-0.0937	0.0171	-0.0095	0.0000
9	0.0083	-0.0007	-0.0810	0.0255	-0.0131	-0.0000
10	0.0083	-0.0006	-0.0820	-0.0252	-0.0130	0.0000
11	0.0084	-0.0007	-0.0945	-0.0168	-0.0095	0.0000
12	0.0084	-0.0007	-0.0886	-0.0256	0.0330	-0.0000

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RISULTATI : COMBINAZIONE 3 : SPOSTAMENTI E ROTAZIONI NODALI

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NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0573	0.0067	-0.0036	-0.0000
2	0.0000	0.0000	-0.0536	0.0104	0.0006	0.0000
3	0.0000	0.0000	-0.0543	0.0065	0.0012	0.0000
4	0.0000	0.0000	-0.0536	-0.0062	0.0012	-0.0000
5	0.0000	0.0000	-0.0530	-0.0105	0.0006	-0.0000
6	0.0000	0.0000	-0.0566	-0.0065	-0.0036	0.0000
7	0.0065	-0.0006	-0.0681	0.0201	0.0258	0.0000
8	0.0065	-0.0005	-0.0728	0.0133	-0.0074	0.0000
9	0.0065	-0.0005	-0.0629	0.0198	-0.0102	-0.0000
10	0.0065	-0.0005	-0.0636	-0.0196	-0.0102	0.0000
11	0.0065	-0.0005	-0.0734	-0.0131	-0.0074	0.0000
12	0.0066	-0.0005	-0.0688	-0.0199	0.0257	-0.0000

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RISULTATI : COMBINAZIONE 4 : SPOSTAMENTI E ROTAZIONI NODALI

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NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0590	0.0070	-0.0037	-0.0000
2	0.0000	0.0000	-0.0554	0.0109	0.0006	0.0000
3	0.0000	0.0000	-0.0559	0.0068	0.0012	0.0000
4	0.0000	0.0000	-0.0552	-0.0065	0.0012	-0.0000
5	0.0000	0.0000	-0.0548	-0.0110	0.0006	-0.0000
6	0.0000	0.0000	-0.0583	-0.0068	-0.0037	0.0000
7	0.0069	-0.0006	-0.0704	0.0208	0.0272	0.0000
8	0.0068	-0.0005	-0.0756	0.0138	-0.0078	0.0000
9	0.0068	-0.0005	-0.0649	0.0206	-0.0108	-0.0000
10	0.0068	-0.0005	-0.0656	-0.0204	-0.0108	0.0000
11	0.0068	-0.0005	-0.0762	-0.0136	-0.0078	0.0000
12	0.0069	-0.0005	-0.0711	-0.0207	0.0271	-0.0000

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RISULTATI : COMBINAZIONE 5 : SPOSTAMENTI E ROTAZIONI NODALI

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NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0530	0.0060	-0.0033	-0.0000
2	0.0000	0.0000	-0.0493	0.0094	0.0005	0.0000
3	0.0000	0.0000	-0.0505	0.0058	0.0012	0.0000
4	0.0000	0.0000	-0.0497	-0.0056	0.0012	-0.0000
5	0.0000	0.0000	-0.0487	-0.0094	0.0005	-0.0000
6	0.0000	0.0000	-0.0523	-0.0058	-0.0033	0.0000
7	0.0058	-0.0006	-0.0626	0.0182	0.0224	0.0000
8	0.0058	-0.0005	-0.0662	0.0121	-0.0065	0.0000

9	0.0058	-0.0005	-0.0581	0.0180	-0.0088	-0.0000
10	0.0058	-0.0005	-0.0588	-0.0178	-0.0088	0.0000
11	0.0058	-0.0005	-0.0668	-0.0118	-0.0065	0.0000
12	0.0058	-0.0005	-0.0633	-0.0180	0.0224	-0.0000

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RISULTATI : COMBINAZIONE 6 : SPOSTAMENTI E ROTAZIONI NODALI

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NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0544	0.0063	-0.0034	-0.0000
2	0.0000	0.0000	-0.0507	0.0097	0.0005	0.0000
3	0.0000	0.0000	-0.0517	0.0060	0.0012	0.0000
4	0.0000	0.0000	-0.0510	-0.0058	0.0012	-0.0000
5	0.0000	0.0000	-0.0501	-0.0098	0.0005	-0.0000
6	0.0000	0.0000	-0.0537	-0.0060	-0.0034	0.0000
7	0.0060	-0.0006	-0.0644	0.0188	0.0235	0.0000
8	0.0060	-0.0005	-0.0683	0.0125	-0.0068	0.0000
9	0.0060	-0.0005	-0.0596	0.0186	-0.0093	-0.0000
10	0.0060	-0.0005	-0.0603	-0.0184	-0.0092	0.0000
11	0.0060	-0.0005	-0.0689	-0.0122	-0.0068	0.0000
12	0.0061	-0.0005	-0.0651	-0.0186	0.0235	-0.0000

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RISULTATI : COMBINAZIONE 7 : SPOSTAMENTI E ROTAZIONI NODALI

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NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0494	0.0054	-0.0030	-0.0000
2	0.0000	0.0000	-0.0456	0.0084	0.0005	0.0000
3	0.0000	0.0000	-0.0471	0.0052	0.0012	0.0000
4	0.0000	0.0000	-0.0464	-0.0050	0.0012	-0.0000
5	0.0000	0.0000	-0.0450	-0.0084	0.0005	-0.0000
6	0.0000	0.0000	-0.0487	-0.0052	-0.0030	0.0000
7	0.0052	-0.0006	-0.0579	0.0166	0.0196	0.0000
8	0.0051	-0.0005	-0.0604	0.0110	-0.0057	0.0000
9	0.0051	-0.0005	-0.0539	0.0164	-0.0076	-0.0000
10	0.0051	-0.0005	-0.0546	-0.0162	-0.0076	0.0000
11	0.0052	-0.0005	-0.0610	-0.0107	-0.0056	0.0000
12	0.0052	-0.0005	-0.0586	-0.0164	0.0196	-0.0000

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RISULTATI : COMBINAZIONE 8 : SPOSTAMENTI E ROTAZIONI NODALI

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NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0484	0.0053	-0.0030	-0.0000
2	0.0000	0.0000	-0.0446	0.0082	0.0005	0.0000
3	0.0000	0.0000	-0.0463	0.0051	0.0012	0.0000
4	0.0000	0.0000	-0.0456	-0.0049	0.0012	-0.0000
5	0.0000	0.0000	-0.0440	-0.0082	0.0005	-0.0000
6	0.0000	0.0000	-0.0478	-0.0051	-0.0030	0.0000
7	0.0050	-0.0006	-0.0567	0.0162	0.0188	0.0000
8	0.0050	-0.0005	-0.0589	0.0107	-0.0054	0.0000
9	0.0050	-0.0005	-0.0528	0.0160	-0.0073	-0.0000
10	0.0050	-0.0005	-0.0535	-0.0158	-0.0072	0.0000
11	0.0050	-0.0005	-0.0595	-0.0105	-0.0054	0.0000
12	0.0050	-0.0005	-0.0574	-0.0160	0.0188	-0.0000

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RISULTATI : COMBINAZIONE 9 : SPOSTAMENTI E ROTAZIONI NODALI

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NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	-0.0484	0.0053	-0.0030	-0.0000
2	0.0000	0.0000	-0.0446	0.0082	0.0005	0.0000
3	0.0000	0.0000	-0.0463	0.0051	0.0012	0.0000

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RISULTATI : COMBINAZIONE 1 : SOLLECITAZIONI PILASTRI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
8	0.00	-7875.1	135.2	197.4	0.0	-178.2	81.9
8	3.55	-7154.0	135.2	197.4	0.0	522.6	-398.2
9	0.00	-13188.0	27.0	-88.6	0.0	110.5	-93.6
9	3.55	-12466.9	27.0	-88.6	0.0	-204.1	-189.5
10	0.00	-6430.4	135.4	-108.9	-0.0	126.5	85.3
10	3.55	-5709.3	135.4	-108.9	-0.0	-260.0	-395.4
11	0.00	-6428.7	-134.4	-108.5	0.0	125.9	-83.1
11	3.55	-5707.6	-134.4	-108.5	0.0	-259.4	393.9
12	0.00	-13190.3	-28.8	-88.7	0.0	110.6	88.5
12	3.55	-12469.2	-28.8	-88.7	0.0	-204.1	190.9
13	0.00	-7873.9	-134.4	197.3	-0.0	-178.1	-80.2
13	3.55	-7152.8	-134.4	197.3	-0.0	522.2	397.1

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RISULTATI : COMBINAZIONE 2 : SOLLECITAZIONI TRAVI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
1	0.00	0.0	3658.7	-0.0	349.3	0.0	-189.8
1	3.56	0.0	-5330.0	-0.0	349.3	-0.0	2977.9
2	0.00	0.0	4806.9	0.0	-470.7	-0.0	3094.3
2	2.83	0.0	-2523.9	0.0	-470.7	0.0	-132.9
3	0.00	0.0	4536.1	0.0	-0.5	0.0	-431.6
3	4.15	0.0	-4524.1	0.0	-0.5	0.0	-385.7
4	0.00	0.0	3661.0	0.0	0.2	-0.0	912.8
4	4.15	0.0	-3570.8	0.0	0.2	0.0	805.3
5	0.00	0.0	4155.3	0.0	-1.4	-0.0	-556.0
5	4.15	0.0	-4151.7	0.0	-1.4	-0.0	-493.2
6	0.00	0.0	3672.0	0.0	-301.7	-0.0	-189.0
6	3.56	0.0	-5374.0	0.0	-301.7	0.0	3023.1
7	0.00	0.0	4850.7	-0.0	405.5	0.0	3139.0
7	2.83	0.0	-2529.3	-0.0	405.5	-0.0	-136.2
14	0.00	-49.6	-4971.6	0.1	89.2	-0.1	-549.8
14	3.56	-49.6	7010.9	0.1	89.2	0.2	-4174.7
15	0.00	-26.6	-6065.9	-0.1	-108.1	0.2	-3960.3
15	2.83	-26.6	3456.1	-0.1	-108.1	-0.1	-274.0
16	0.00	-43.2	-2502.1	-0.0	0.2	0.1	-500.1
16	4.15	-43.2	2502.3	-0.0	0.2	0.1	-500.6
17	0.00	-49.8	-2502.0	-0.0	-0.3	-0.1	-515.7
17	4.15	-49.8	2502.4	-0.0	-0.3	-0.1	-516.5
18	0.00	-49.4	-4972.7	-0.1	-88.6	0.1	-550.8
18	3.56	-49.4	7009.8	-0.1	-88.6	-0.2	-4171.8
19	0.00	-26.5	-6064.5	0.1	107.3	-0.2	-3957.5
19	2.83	-26.5	3457.5	0.1	107.3	0.1	-275.2

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RISULTATI : COMBINAZIONE 2 : SOLLECITAZIONI PILASTRI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
8	0.00	-8196.1	139.7	208.5	0.0	-189.5	84.0
8	3.55	-7475.0	139.7	208.5	0.0	550.6	-412.0
9	0.00	-13795.4	27.5	-93.1	0.0	116.1	-98.1
9	3.55	-13074.3	27.5	-93.1	0.0	-214.3	-195.9
10	0.00	-6681.0	140.0	-115.4	-0.0	134.9	87.7
10	3.55	-5959.9	140.0	-115.4	-0.0	-274.9	-409.2
11	0.00	-6679.2	-138.9	-115.1	0.0	134.3	-85.4
11	3.55	-5958.1	-138.9	-115.1	0.0	-274.3	407.6
12	0.00	-13797.9	-29.5	-93.1	0.0	116.2	92.8
12	3.55	-13076.8	-29.5	-93.1	0.0	-214.3	197.3
13	0.00	-8194.8	-138.9	208.3	-0.0	-189.3	-82.3
13	3.55	-7473.7	-138.9	208.3	-0.0	550.1	410.8

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RISULTATI : COMBINAZIONE 3 : SOLLECITAZIONI TRAVI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
1	0.00	0.0	2848.6	-0.0	271.9	0.0	-148.6
1	3.56	0.0	-4157.8	-0.0	271.9	-0.0	2328.9
2	0.00	0.0	3750.2	0.0	-366.5	-0.0	2419.8
2	2.83	0.0	-1963.2	0.0	-366.5	0.0	-104.1
3	0.00	0.0	3533.1	0.0	-0.4	0.0	-335.8
3	4.15	0.0	-3524.1	0.0	-0.4	0.0	-300.1
4	0.00	0.0	2850.6	0.0	0.2	-0.0	710.7
4	4.15	0.0	-2780.8	0.0	0.2	0.0	627.2
5	0.00	0.0	3235.9	0.0	-1.1	-0.0	-432.8
5	4.15	0.0	-3233.4	0.0	-1.1	-0.0	-383.9
6	0.00	0.0	2858.7	0.0	-234.9	-0.0	-148.0
6	3.56	0.0	-4191.8	0.0	-234.9	0.0	2364.1
7	0.00	0.0	3784.1	-0.0	315.8	0.0	2454.6
7	2.83	0.0	-1967.2	-0.0	315.8	-0.0	-106.8
14	0.00	-38.8	-3880.3	0.1	69.4	-0.1	-429.5
14	3.56	-38.8	5470.8	0.1	69.4	0.2	-3256.6
15	0.00	-20.8	-4733.2	-0.1	-84.1	0.2	-3089.3
15	2.83	-20.8	2697.7	-0.1	-84.1	-0.1	-214.2
16	0.00	-33.6	-1946.8	-0.0	0.2	0.1	-389.0
16	4.15	-33.6	1947.0	-0.0	0.2	0.1	-389.5
17	0.00	-38.7	-1946.7	-0.0	-0.2	-0.1	-401.2
17	4.15	-38.7	1947.0	-0.0	-0.2	-0.1	-401.8
18	0.00	-38.6	-3881.2	-0.1	-68.9	0.1	-430.3
18	3.56	-38.6	5470.0	-0.1	-68.9	-0.2	-3254.4
19	0.00	-20.7	-4732.1	0.1	83.5	-0.2	-3087.1
19	2.83	-20.7	2698.9	0.1	83.5	0.1	-215.2

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RISULTATI : COMBINAZIONE 3 : SOLLECITAZIONI PILASTRI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
8	0.00	-6382.8	108.7	163.0	0.0	-148.4	65.2
8	3.55	-5828.1	108.7	163.0	0.0	430.1	-320.5
9	0.00	-10756.7	21.4	-72.7	0.0	90.7	-76.5
9	3.55	-10202.0	21.4	-72.7	0.0	-167.3	-152.4
10	0.00	-5200.6	108.9	-90.3	-0.0	105.7	68.1
10	3.55	-4645.9	108.9	-90.3	-0.0	-215.0	-318.3
11	0.00	-5199.1	-108.0	-90.0	0.0	105.2	-66.3
11	3.55	-4644.4	-108.0	-90.0	0.0	-214.4	317.1
12	0.00	-10758.7	-22.9	-72.7	0.0	90.8	72.3
12	3.55	-10204.0	-22.9	-72.7	0.0	-167.3	153.5
13	0.00	-6381.8	-108.0	162.8	-0.0	-148.2	-63.9
13	3.55	-5827.1	-108.0	162.8	-0.0	429.7	319.6

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RISULTATI : COMBINAZIONE 4 : SOLLECITAZIONI TRAVI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
1	0.00	0.0	2970.3	-0.0	283.7	0.0	-158.2
1	3.56	0.0	-4367.9	-0.0	283.7	-0.0	2470.6
2	0.00	0.0	3941.5	0.0	-382.7	-0.0	2566.4
2	2.83	0.0	-2039.5	0.0	-382.7	0.0	-111.2
3	0.00	0.0	3689.6	0.0	-0.3	0.0	-349.4
3	4.15	0.0	-3681.2	0.0	-0.3	0.0	-312.2
4	0.00	0.0	2975.9	0.0	0.2	-0.0	742.4
4	4.15	0.0	-2904.2	0.0	0.2	0.0	655.4
5	0.00	0.0	3376.7	0.0	-1.2	-0.0	-450.9
5	4.15	0.0	-3375.0	0.0	-1.2	-0.0	-400.0
6	0.00	0.0	2979.9	0.0	-245.2	-0.0	-157.8
6	3.56	0.0	-4402.6	0.0	-245.2	0.0	2507.2
7	0.00	0.0	3976.2	-0.0	329.9	0.0	2602.6
7	2.83	0.0	-2042.8	-0.0	329.9	-0.0	-114.2
14	0.00	-41.1	-4084.3	0.1	72.0	-0.1	-453.7
14	3.56	-41.1	5753.5	0.1	72.0	0.2	-3420.8
15	0.00	-22.2	-4977.0	-0.1	-87.2	0.2	-3244.7
15	2.83	-22.2	2840.7	-0.1	-87.2	-0.1	-227.1
16	0.00	-34.8	-2020.9	-0.0	0.2	0.1	-403.5
16	4.15	-34.8	2021.2	-0.0	0.2	0.1	-404.0
17	0.00	-40.1	-2020.9	-0.0	-0.2	-0.1	-416.1
17	4.15	-40.1	2021.2	-0.0	-0.2	-0.1	-416.8
18	0.00	-40.9	-4085.2	-0.1	-71.5	0.1	-454.5
18	3.56	-40.9	5752.6	-0.1	-71.5	-0.2	-3418.4
19	0.00	-22.1	-4975.8	0.1	86.5	-0.2	-3242.2
19	2.83	-22.1	2841.9	0.1	86.5	0.1	-228.1

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RISULTATI : COMBINAZIONE 4 : SOLLECITAZIONI PILASTRI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
8	0.00	-6661.0	112.5	172.5	0.0	-158.1	67.0
8	3.55	-6106.4	112.5	172.5	0.0	454.4	-332.5
9	0.00	-11283.1	21.8	-76.5	0.0	95.6	-80.4
9	3.55	-10728.4	21.8	-76.5	0.0	-176.2	-158.0
10	0.00	-5417.8	112.8	-96.0	-0.0	113.0	70.1
10	3.55	-4863.1	112.8	-96.0	-0.0	-227.9	-330.3
11	0.00	-5416.3	-111.9	-95.7	0.0	112.5	-68.3
11	3.55	-4861.6	-111.9	-95.7	0.0	-227.3	329.0
12	0.00	-11285.2	-23.4	-76.6	0.0	95.6	76.0
12	3.55	-10730.5	-23.4	-76.6	0.0	-176.2	159.1
13	0.00	-6659.9	-111.9	172.3	-0.0	-157.9	-65.6
13	3.55	-6105.2	-111.9	172.3	-0.0	453.9	331.5

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RISULTATI : COMBINAZIONE 5 : SOLLECITAZIONI TRAVI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
1	0.00	0.0	2556.7	-0.0	243.9	0.0	-125.7
1	3.56	0.0	-3656.5	-0.0	243.9	-0.0	1992.3
2	0.00	0.0	3293.8	0.0	-327.9	-0.0	2071.6
2	2.83	0.0	-1779.5	0.0	-327.9	0.0	-87.3
3	0.00	0.0	3158.0	0.0	-0.5	0.0	-303.3
3	4.15	0.0	-3147.6	0.0	-0.5	0.0	-271.0
4	0.00	0.0	2551.7	0.0	0.2	-0.0	635.3
4	4.15	0.0	-2486.0	0.0	0.2	0.0	559.9
5	0.00	0.0	2898.3	0.0	-0.7	-0.0	-389.3
5	4.15	0.0	-2893.7	0.0	-0.7	-0.0	-345.2
6	0.00	0.0	2568.0	0.0	-210.4	-0.0	-124.7
6	3.56	0.0	-3688.7	0.0	-210.4	0.0	2024.0
7	0.00	0.0	3325.7	-0.0	282.2	0.0	2102.8
7	2.83	0.0	-1785.2	-0.0	282.2	-0.0	-89.2
14	0.00	-33.3	-3393.8	0.1	63.2	-0.1	-372.0
14	3.56	-33.3	4796.0	0.1	63.2	0.2	-2864.4
15	0.00	-17.6	-4151.2	-0.1	-76.6	0.2	-2718.2
15	2.83	-17.6	2356.9	-0.1	-76.6	-0.1	-183.7
16	0.00	-30.8	-1766.3	-0.0	0.1	0.1	-353.7
16	4.15	-30.8	1766.4	-0.0	0.1	0.1	-354.1
17	0.00	-35.4	-1766.2	-0.0	-0.2	-0.1	-364.7
17	4.15	-35.4	1766.5	-0.0	-0.2	-0.1	-365.2
18	0.00	-33.1	-3394.5	-0.1	-62.8	0.1	-372.6
18	3.56	-33.1	4795.3	-0.1	-62.8	-0.2	-2862.6
19	0.00	-17.5	-4150.3	0.1	76.0	-0.2	-2716.5
19	2.83	-17.5	2357.7	0.1	76.0	0.1	-184.4

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RISULTATI : COMBINAZIONE 5 : SOLLECITAZIONI PILASTRI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
8	0.00	-5715.6	99.1	140.2	0.0	-125.3	60.6
8	3.55	-5160.9	99.1	140.2	0.0	372.4	-291.3
9	0.00	-9500.4	20.1	-63.4	0.0	79.0	-67.3
9	3.55	-8945.7	20.1	-63.4	0.0	-146.2	-138.8
10	0.00	-4678.9	99.2	-76.8	-0.0	88.4	63.0
10	3.55	-4124.2	99.2	-76.8	-0.0	-184.3	-289.2
11	0.00	-4677.8	-98.5	-76.6	0.0	88.1	-61.4
11	3.55	-4123.1	-98.5	-76.6	0.0	-183.9	288.1
12	0.00	-9501.9	-21.5	-63.5	0.0	79.1	63.6
12	3.55	-8947.2	-21.5	-63.5	0.0	-146.2	139.8
13	0.00	-5714.8	-98.6	140.1	-0.0	-125.2	-59.4
13	3.55	-5160.1	-98.6	140.1	-0.0	372.1	290.5

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RISULTATI : COMBINAZIONE 6 : SOLLECITAZIONI TRAVI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
1	0.00	0.0	2650.3	-0.0	252.9	0.0	-133.1
1	3.56	0.0	-3818.0	-0.0	252.9	-0.0	2101.3
2	0.00	0.0	3440.9	0.0	-340.3	-0.0	2184.3
2	2.83	0.0	-1838.2	0.0	-340.3	0.0	-92.8
3	0.00	0.0	3278.4	0.0	-0.5	0.0	-313.7
3	4.15	0.0	-3268.4	0.0	-0.5	0.0	-280.3
4	0.00	0.0	2648.0	0.0	0.2	-0.0	659.7
4	4.15	0.0	-2581.0	0.0	0.2	0.0	581.7
5	0.00	0.0	3006.6	0.0	-0.9	-0.0	-403.3
5	4.15	0.0	-3002.7	0.0	-0.9	-0.0	-357.6
6	0.00	0.0	2661.2	0.0	-218.3	-0.0	-132.3
6	3.56	0.0	-3850.8	0.0	-218.3	0.0	2134.2
7	0.00	0.0	3473.5	-0.0	293.0	0.0	2216.7
7	2.83	0.0	-1843.3	-0.0	293.0	-0.0	-94.9
14	0.00	-35.1	-3550.7	0.1	65.2	-0.1	-390.6
14	3.56	-35.1	5013.5	0.1	65.2	0.2	-2990.7
15	0.00	-18.7	-4338.8	-0.1	-78.9	0.2	-2837.7
15	2.83	-18.7	2466.8	-0.1	-78.9	-0.1	-193.6
16	0.00	-31.7	-1823.3	-0.0	0.2	0.1	-364.8
16	4.15	-31.7	1823.5	-0.0	0.2	0.1	-365.2
17	0.00	-36.4	-1823.3	-0.0	-0.2	-0.1	-376.2
17	4.15	-36.4	1823.5	-0.0	-0.2	-0.1	-376.8
18	0.00	-34.9	-3551.4	-0.1	-64.7	0.1	-391.2
18	3.56	-34.9	5012.8	-0.1	-64.7	-0.2	-2988.8
19	0.00	-18.6	-4337.8	0.1	78.4	-0.2	-2835.8
19	2.83	-18.6	2467.8	0.1	78.4	0.1	-194.4

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RISULTATI : COMBINAZIONE 6 : SOLLECITAZIONI PILASTRI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
8	0.00	-5929.6	102.1	147.6	0.0	-132.8	62.0
8	3.55	-5374.9	102.1	147.6	0.0	391.1	-300.5
9	0.00	-9905.3	20.5	-66.4	0.0	82.8	-70.3
9	3.55	-9350.6	20.5	-66.4	0.0	-153.0	-143.1
10	0.00	-4846.0	102.2	-81.2	-0.0	94.0	64.6
10	3.55	-4291.3	102.2	-81.2	-0.0	-194.2	-298.4
11	0.00	-4844.8	-101.5	-81.0	0.0	93.6	-62.9
11	3.55	-4290.1	-101.5	-81.0	0.0	-193.8	297.3
12	0.00	-9907.0	-21.9	-66.4	0.0	82.9	66.4
12	3.55	-9352.3	-21.9	-66.4	0.0	-153.0	144.1
13	0.00	-5928.7	-101.5	147.4	-0.0	-132.7	-60.8
13	3.55	-5374.0	-101.5	147.4	-0.0	390.7	299.7

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RISULTATI : COMBINAZIONE 7 : SOLLECITAZIONI TRAVI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
1	0.00	0.0	2303.0	-0.0	219.5	0.0	-106.0
1	3.56	0.0	-3221.3	-0.0	219.5	-0.0	1700.6
2	0.00	0.0	2897.7	0.0	-294.4	-0.0	1769.8
2	2.83	0.0	-1619.6	0.0	-294.4	0.0	-72.8
3	0.00	0.0	2831.9	0.0	-0.7	0.0	-275.0
3	4.15	0.0	-2820.3	0.0	-0.7	0.0	-245.8
4	0.00	0.0	2292.2	0.0	0.2	-0.0	570.0
4	4.15	0.0	-2230.2	0.0	0.2	0.0	501.6
5	0.00	0.0	2604.7	0.0	-0.5	-0.0	-351.5
5	4.15	0.0	-2598.5	0.0	-0.5	-0.0	-311.6
6	0.00	0.0	2315.3	0.0	-189.2	-0.0	-104.6
6	3.56	0.0	-3252.0	0.0	-189.2	0.0	1729.4
7	0.00	0.0	2927.8	-0.0	253.1	0.0	1798.0
7	2.83	0.0	-1626.7	-0.0	253.1	-0.0	-73.9
14	0.00	-28.5	-2971.6	0.1	57.8	-0.1	-322.1
14	3.56	-28.5	4210.4	0.1	57.8	0.1	-2523.9
15	0.00	-14.9	-3646.1	-0.1	-70.0	0.2	-2396.1
15	2.83	-14.9	2061.1	-0.1	-70.0	-0.1	-157.2
16	0.00	-28.3	-1608.6	-0.0	0.1	0.1	-322.8
16	4.15	-28.3	1608.7	-0.0	0.1	0.1	-323.1
17	0.00	-32.4	-1608.5	-0.0	-0.1	-0.1	-332.8
17	4.15	-32.4	1608.8	-0.0	-0.1	-0.1	-333.2
18	0.00	-28.4	-2972.2	-0.1	-57.4	0.1	-322.5
18	3.56	-28.4	4209.8	-0.1	-57.4	-0.2	-2522.5
19	0.00	-14.7	-3645.4	0.1	69.5	-0.2	-2394.7
19	2.83	-14.7	2061.8	0.1	69.5	0.1	-157.8

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RISULTATI : COMBINAZIONE 7 : SOLLECITAZIONI PILASTRI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
8	0.00	-5135.6	90.8	120.5	0.0	-105.3	56.6
8	3.55	-4580.9	90.8	120.5	0.0	322.4	-265.8
9	0.00	-8410.0	19.0	-55.4	0.0	68.9	-59.3
9	3.55	-7855.3	19.0	-55.4	0.0	-127.8	-126.9
10	0.00	-4225.2	90.8	-65.1	-0.0	73.4	58.5
10	3.55	-3670.5	90.8	-65.1	-0.0	-157.6	-263.8
11	0.00	-4224.3	-90.1	-64.9	0.0	73.2	-57.1
11	3.55	-3669.6	-90.1	-64.9	0.0	-157.3	262.8
12	0.00	-8411.2	-20.2	-55.4	0.0	69.0	56.1
12	3.55	-7856.5	-20.2	-55.4	0.0	-127.8	127.7
13	0.00	-5134.9	-90.3	120.4	-0.0	-105.3	-55.5
13	3.55	-4580.2	-90.3	120.4	-0.0	322.2	265.0

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RISULTATI : COMBINAZIONE 8 : SOLLECITAZIONI TRAVI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
1	0.00	0.0	2239.5	-0.0	213.5	0.0	-101.0
1	3.56	0.0	-3112.5	-0.0	213.5	-0.0	1627.6
2	0.00	0.0	2798.7	0.0	-286.0	-0.0	1694.3
2	2.83	0.0	-1579.6	0.0	-286.0	0.0	-69.1
3	0.00	0.0	2750.4	0.0	-0.7	0.0	-268.0
3	4.15	0.0	-2738.4	0.0	-0.7	0.0	-239.4
4	0.00	0.0	2227.3	0.0	0.2	-0.0	553.6
4	4.15	0.0	-2166.2	0.0	0.2	0.0	487.0
5	0.00	0.0	2531.4	0.0	-0.4	-0.0	-342.0
5	4.15	0.0	-2524.7	0.0	-0.4	-0.0	-303.2
6	0.00	0.0	2252.1	0.0	-183.9	-0.0	-99.5
6	3.56	0.0	-3142.8	0.0	-183.9	0.0	1655.7
7	0.00	0.0	2828.4	-0.0	245.8	0.0	1721.8
7	2.83	0.0	-1587.1	-0.0	245.8	-0.0	-70.1
14	0.00	-27.4	-2866.1	0.1	56.4	-0.1	-309.6
14	3.56	-27.4	4063.9	0.1	56.4	0.1	-2438.8
15	0.00	-14.2	-3519.8	-0.1	-68.3	0.2	-2315.5
15	2.83	-14.2	1987.1	-0.1	-68.3	-0.1	-150.6
16	0.00	-27.7	-1569.1	-0.0	0.1	0.1	-315.1
16	4.15	-27.7	1569.3	-0.0	0.1	0.1	-315.4
17	0.00	-31.7	-1569.1	-0.0	-0.1	-0.1	-324.8
17	4.15	-31.7	1569.3	-0.0	-0.1	-0.1	-325.3
18	0.00	-27.2	-2866.6	-0.1	-56.0	0.1	-310.0
18	3.56	-27.2	4063.5	-0.1	-56.0	-0.2	-2437.5
19	0.00	-14.1	-3519.2	0.1	67.9	-0.1	-2314.3
19	2.83	-14.1	1987.8	0.1	67.9	0.1	-151.1

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RISULTATI : COMBINAZIONE 8 : SOLLECITAZIONI PILASTRI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
8	0.00	-4990.6	88.7	115.5	0.0	-100.3	55.5
8	3.55	-4435.9	88.7	115.5	0.0	309.9	-259.4
9	0.00	-8137.4	18.7	-53.4	0.0	66.3	-57.3
9	3.55	-7582.7	18.7	-53.4	0.0	-123.2	-123.9
10	0.00	-4111.8	88.7	-62.2	-0.0	69.7	57.4
10	3.55	-3557.1	88.7	-62.2	-0.0	-151.0	-257.4
11	0.00	-4110.9	-88.0	-62.0	0.0	69.5	-56.0
11	3.55	-3556.3	-88.0	-62.0	0.0	-150.7	256.5
12	0.00	-8138.5	-19.9	-53.4	0.0	66.5	54.2
12	3.55	-7583.8	-19.9	-53.4	0.0	-123.3	124.7
13	0.00	-4989.9	-88.2	115.5	-0.0	-100.3	-54.5
13	3.55	-4435.2	-88.2	115.5	-0.0	309.7	258.7

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RISULTATI : COMBINAZIONE 9 : SOLLECITAZIONI TRAVI

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
1	0.00	0.0	2239.5	-0.0	213.5	0.0	-101.0
1	3.56	0.0	-3112.5	-0.0	213.5	-0.0	1627.6
2	0.00	0.0	2798.7	0.0	-286.0	-0.0	1694.3
2	2.83	0.0	-1579.6	0.0	-286.0	0.0	-69.1
3	0.00	0.0	2750.4	0.0	-0.7	0.0	-268.0
3	4.15	0.0	-2738.4	0.0	-0.7	0.0	-239.4
4	0.00	0.0	2227.3	0.0	0.2	-0.0	553.6
4	4.15	0.0	-2166.2	0.0	0.2	0.0	487.0
5	0.00	0.0	2531.4	0.0	-0.4	-0.0	-342.0
5	4.15	0.0	-2524.7	0.0	-0.4	-0.0	-303.2
6	0.00	0.0	2252.1	0.0	-183.9	-0.0	-99.5
6	3.56	0.0	-3142.8	0.0	-183.9	0.0	1655.7
7	0.00	0.0	2828.4	-0.0	245.8	0.0	1721.8
7	2.83	0.0	-1587.1	-0.0	245.8	-0.0	-70.1
14	0.00	-27.4	-2866.1	0.1	56.4	-0.1	-309.6
14	3.56	-27.4	4063.9	0.1	56.4	0.1	-2438.8
15	0.00	-14.2	-3519.8	-0.1	-68.3	0.2	-2315.5
15	2.83	-14.2	1987.1	-0.1	-68.3	-0.1	-150.6
16	0.00	-27.7	-1569.1	-0.0	0.1	0.1	-315.1
16	4.15	-27.7	1569.3	-0.0	0.1	0.1	-315.4
17	0.00	-31.7	-1569.1	-0.0	-0.1	-0.1	-324.8
17	4.15	-31.7	1569.3	-0.0	-0.1	-0.1	-325.3
18	0.00	-27.2	-2866.6	-0.1	-56.0	0.1	-310.0
18	3.56	-27.2	4063.5	-0.1	-56.0	-0.2	-2437.5
19	0.00	-14.1	-3519.2	0.1	67.9	-0.1	-2314.3
19	2.83	-14.1	1987.8	0.1	67.9	0.1	-151.1

RISULTATI : COMBINAZIONE 9 : SOLLECITAZIONI PILASTRI

ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
8	0.00	-4990.6	88.7	115.5	0.0	-100.3	55.5
8	3.55	-4435.9	88.7	115.5	0.0	309.9	-259.4
9	0.00	-8137.4	18.7	-53.4	0.0	66.3	-57.3
9	3.55	-7582.7	18.7	-53.4	0.0	-123.2	-123.9
10	0.00	-4111.8	88.7	-62.2	-0.0	69.7	57.4
10	3.55	-3557.1	88.7	-62.2	-0.0	-151.0	-257.4
11	0.00	-4110.9	-88.0	-62.0	0.0	69.5	-56.0
11	3.55	-3556.3	-88.0	-62.0	0.0	-150.7	256.5
12	0.00	-8138.5	-19.9	-53.4	0.0	66.5	54.2
12	3.55	-7583.8	-19.9	-53.4	0.0	-123.3	124.7
13	0.00	-4989.9	-88.2	115.5	-0.0	-100.3	-54.5
13	3.55	-4435.2	-88.2	115.5	-0.0	309.7	258.7

DESCRIZIONE TABELLA SOLLECITAZIONI TRAVI E PILASTRI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella SOLLECITAZIONI TRAVI E PILASTRI.

Per ogni gruppo di elementi ed internamente ad esso, per ogni elemento ad esso appartenente ed in ogni condizione di carico considerata vengono riportate, secondo modalita' diverse da tipo a tipo di elemento, azioni e/o tensioni in punti caratteristici riferiti alla terna locale.

ELEM. n.ro	numero dell' elemento									
x	ascissa locale misurata dal nodo I al nodo J									
N	sforzo normale nel p.to x									
V2	forza di taglio		'	'	'	in direz. 2 locale				
V3	forza di taglio		'	'	'	'	'	3	'	
T	momento torcente		'	'	'					
M2	momento flettente		'	'	'	intorno asse 2 locale				
M3	momento flettente		'	'	'	'	'	3	'	

Per la descrizione delle convenzioni usate per il segno delle azioni interne, si rimanda alla documentazione fornita con il programma.

RISULTATI : SOLLECITAZIONI TRAVI PER N.RO DI ELEMENTO

ELEM. COMB.	ascissa	N	V2	V3	T	M2	M3	CDC
n.ro	(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)	n.ro
1	0.00	-0.0	719.3	-0.0	71.0	0.0	13.1	1
1	3.56	-0.0	-548.8	-0.0	71.0	-0.0	-63.9	1
1	0.00	-0.0	864.5	-0.0	79.4	0.0	-62.7	2
1	3.56	-0.0	-1436.4	-0.0	79.4	-0.0	934.0	2
1	0.00	-0.0	655.7	-0.0	63.1	0.0	-51.4	3
1	3.56	-0.0	-1127.3	-0.0	63.1	-0.0	757.5	3
1	0.00	-0.0	317.2	-0.0	30.4	0.0	-24.7	4
1	3.56	-0.0	-544.0	-0.0	30.4	-0.0	364.6	4
1	0.00	-0.0	252.2	-0.0	24.3	0.0	-19.8	5
1	3.56	-0.0	-433.6	-0.0	24.3	-0.0	291.3	5
1	0.00	0.0	3518.4	-0.0	335.8	0.0	-178.7	1
1	3.56	0.0	-5087.6	-0.0	335.8	-0.0	2814.4	1
1	0.00	0.0	3658.7	-0.0	349.3	0.0	-189.8	2
1	3.56	0.0	-5330.0	-0.0	349.3	-0.0	2977.9	2
1	0.00	0.0	2848.6	-0.0	271.9	0.0	-148.6	3
1	3.56	0.0	-4157.8	-0.0	271.9	-0.0	2328.9	3
1	0.00	0.0	2970.3	-0.0	283.7	0.0	-158.2	4
1	3.56	0.0	-4367.9	-0.0	283.7	-0.0	2470.6	4
1	0.00	0.0	2556.7	-0.0	243.9	0.0	-125.7	5
1	3.56	0.0	-3656.5	-0.0	243.9	-0.0	1992.3	5

1	0.00	0.0	2650.3	-0.0	252.9	0.0	-133.1		6
1	3.56	0.0	-3818.0	-0.0	252.9	-0.0	2101.3		6
1	0.00	0.0	2303.0	-0.0	219.5	0.0	-106.0		7
1	3.56	0.0	-3221.3	-0.0	219.5	-0.0	1700.6		7
1	0.00	0.0	2239.5	-0.0	213.5	0.0	-101.0		8
1	3.56	0.0	-3112.5	-0.0	213.5	-0.0	1627.6		8
1	0.00	0.0	2239.5	-0.0	213.5	0.0	-101.0		9
1	3.56	0.0	-3112.5	-0.0	213.5	-0.0	1627.6		9
2	0.00	-0.0	467.5	0.0	-89.8	-0.0	-56.3	1	
2	2.83	-0.0	-612.2	0.0	-89.8	0.0	14.5	1	
2	0.00	-0.0	1305.0	0.0	-109.4	-0.0	967.1	2	
2	2.83	-0.0	-554.8	0.0	-109.4	0.0	-45.8	2	
2	0.00	-0.0	1026.2	0.0	-86.8	-0.0	783.6	3	
2	2.83	-0.0	-412.5	0.0	-86.8	0.0	-37.8	3	
2	0.00	-0.0	495.1	0.0	-41.9	-0.0	377.2	4	
2	2.83	-0.0	-199.9	0.0	-41.9	0.0	-18.2	4	
2	0.00	-0.0	394.7	0.0	-33.4	-0.0	301.4	5	
2	2.83	-0.0	-158.7	0.0	-33.4	0.0	-14.6	5	
2	0.00	0.0	4586.2	0.0	-452.0	-0.0	2925.2		1
2	2.83	0.0	-2435.8	0.0	-452.0	0.0	-124.7		1
2	0.00	0.0	4806.9	0.0	-470.7	-0.0	3094.3		2
2	2.83	0.0	-2523.9	0.0	-470.7	0.0	-132.9		2
2	0.00	0.0	3750.2	0.0	-366.5	-0.0	2419.8		3
2	2.83	0.0	-1963.2	0.0	-366.5	0.0	-104.1		3
2	0.00	0.0	3941.5	0.0	-382.7	-0.0	2566.4		4
2	2.83	0.0	-2039.5	0.0	-382.7	0.0	-111.2		4
2	0.00	0.0	3293.8	0.0	-327.9	-0.0	2071.6		5
2	2.83	0.0	-1779.5	0.0	-327.9	0.0	-87.3		5
2	0.00	0.0	3440.9	0.0	-340.3	-0.0	2184.3		6
2	2.83	0.0	-1838.2	0.0	-340.3	0.0	-92.8		6
2	0.00	0.0	2897.7	0.0	-294.4	-0.0	1769.8		7
2	2.83	0.0	-1619.6	0.0	-294.4	0.0	-72.8		7
2	0.00	0.0	2798.7	0.0	-286.0	-0.0	1694.3		8
2	2.83	0.0	-1579.6	0.0	-286.0	0.0	-69.1		8
2	0.00	0.0	2798.7	0.0	-286.0	-0.0	1694.3		9
2	2.83	0.0	-1579.6	0.0	-286.0	0.0	-69.1		9
3	0.00	-0.0	803.5	0.0	-1.6	0.0	-98.0	1	
3	4.15	-0.0	-784.3	0.0	-1.6	0.0	-87.0	1	
3	0.00	-0.0	1104.1	0.0	0.5	0.0	-97.0	2	
3	4.15	-0.0	-1108.1	0.0	0.5	0.0	-87.2	2	
3	0.00	-0.0	842.9	0.0	0.4	0.0	-73.0	3	
3	4.15	-0.0	-846.0	0.0	0.4	0.0	-65.3	3	
3	0.00	-0.0	407.6	0.0	0.2	0.0	-35.3	4	
3	4.15	-0.0	-409.1	0.0	0.2	0.0	-31.6	4	
3	0.00	-0.0	324.2	0.0	0.2	0.0	-28.1	5	
3	4.15	-0.0	-325.4	0.0	0.2	0.0	-25.1	5	
3	0.00	0.0	4355.5	0.0	-0.6	0.0	-416.0		1
3	4.15	0.0	-4342.9	0.0	-0.6	0.0	-371.7		1
3	0.00	0.0	4536.1	0.0	-0.5	0.0	-431.6		2
3	4.15	0.0	-4524.1	0.0	-0.5	0.0	-385.7		2
3	0.00	0.0	3533.1	0.0	-0.4	0.0	-335.8		3
3	4.15	0.0	-3524.1	0.0	-0.4	0.0	-300.1		3
3	0.00	0.0	3689.6	0.0	-0.3	0.0	-349.4		4
3	4.15	0.0	-3681.2	0.0	-0.3	0.0	-312.2		4
3	0.00	0.0	3158.0	0.0	-0.5	0.0	-303.3		5
3	4.15	0.0	-3147.6	0.0	-0.5	0.0	-271.0		5
3	0.00	0.0	3278.4	0.0	-0.5	0.0	-313.7		6
3	4.15	0.0	-3268.4	0.0	-0.5	0.0	-280.3		6
3	0.00	0.0	2831.9	0.0	-0.7	0.0	-275.0		7
3	4.15	0.0	-2820.3	0.0	-0.7	0.0	-245.8		7
3	0.00	0.0	2750.4	0.0	-0.7	0.0	-268.0		8
3	4.15	0.0	-2738.4	0.0	-0.7	0.0	-239.4		8
3	0.00	0.0	2750.4	0.0	-0.7	0.0	-268.0		9
3	4.15	0.0	-2738.4	0.0	-0.7	0.0	-239.4		9
4	0.00	-0.0	698.2	0.0	0.4	-0.0	172.8	1	
4	4.15	-0.0	-658.6	0.0	0.4	0.0	147.6	1	
4	0.00	-0.0	856.9	0.0	-0.1	-0.0	211.2	2	
4	4.15	-0.0	-844.9	0.0	-0.1	0.0	188.2	2	
4	0.00	-0.0	672.2	0.0	-0.1	-0.0	169.6	3	
4	4.15	-0.0	-662.7	0.0	-0.1	0.0	151.3	3	
4	0.00	-0.0	324.4	0.0	-0.0	-0.0	81.7	4	
4	4.15	-0.0	-319.8	0.0	-0.0	0.0	72.9	4	
4	0.00	-0.0	258.5	0.0	-0.0	-0.0	65.2	5	
4	4.15	-0.0	-254.9	0.0	-0.0	0.0	58.2	5	
4	0.00	0.0	3516.5	0.0	0.2	-0.0	876.2		1

4	4.15	0.0	-3428.3	0.0	0.2	0.0	772.7		1
4	0.00	0.0	3661.0	0.0	0.2	-0.0	912.8		2
4	4.15	0.0	-3570.8	0.0	0.2	0.0	805.3		2
4	0.00	0.0	2850.6	0.0	0.2	-0.0	710.7		3
4	4.15	0.0	-2780.8	0.0	0.2	0.0	627.2		3
4	0.00	0.0	2975.9	0.0	0.2	-0.0	742.4		4
4	4.15	0.0	-2904.2	0.0	0.2	0.0	655.4		4
4	0.00	0.0	2551.7	0.0	0.2	-0.0	635.3		5
4	4.15	0.0	-2486.0	0.0	0.2	0.0	559.9		5
4	0.00	0.0	2648.0	0.0	0.2	-0.0	659.7		6
4	4.15	0.0	-2581.0	0.0	0.2	0.0	581.7		6
4	0.00	0.0	2292.2	0.0	0.2	-0.0	570.0		7
4	4.15	0.0	-2230.2	0.0	0.2	0.0	501.6		7
4	0.00	0.0	2227.3	0.0	0.2	-0.0	553.6		8
4	4.15	0.0	-2166.2	0.0	0.2	0.0	487.0		8
4	0.00	0.0	2227.3	0.0	0.2	-0.0	553.6		9
4	4.15	0.0	-2166.2	0.0	0.2	0.0	487.0		9
5	0.00	-0.0	776.1	0.0	1.3	-0.0	-116.1	1	
5	4.15	-0.0	-759.2	0.0	1.3	-0.0	-101.9	1	
5	0.00	-0.0	996.7	0.0	-0.9	-0.0	-128.2	2	
5	4.15	-0.0	-1002.4	0.0	-0.9	-0.0	-114.5	2	
5	0.00	-0.0	758.6	0.0	-0.8	-0.0	-97.7	3	
5	4.15	-0.0	-763.1	0.0	-0.8	0.0	-86.8	3	
5	0.00	-0.0	366.9	0.0	-0.4	-0.0	-47.3	4	
5	4.15	-0.0	-369.1	0.0	-0.4	0.0	-42.0	4	
5	0.00	-0.0	291.8	0.0	-0.3	-0.0	-37.6	5	
5	4.15	-0.0	-293.5	0.0	-0.3	0.0	-33.4	5	
5	0.00	0.0	3992.9	0.0	-1.2	-0.0	-535.1		1
5	4.15	0.0	-3988.3	0.0	-1.2	-0.0	-474.6		1
5	0.00	0.0	4155.3	0.0	-1.4	-0.0	-556.0		2
5	4.15	0.0	-4151.7	0.0	-1.4	-0.0	-493.2		2
5	0.00	0.0	3235.9	0.0	-1.1	-0.0	-432.8		3
5	4.15	0.0	-3233.4	0.0	-1.1	-0.0	-383.9		3
5	0.00	0.0	3376.7	0.0	-1.2	-0.0	-450.9		4
5	4.15	0.0	-3375.0	0.0	-1.2	-0.0	-400.0		4
5	0.00	0.0	2898.3	0.0	-0.7	-0.0	-389.3		5
5	4.15	0.0	-2893.7	0.0	-0.7	-0.0	-345.2		5
5	0.00	0.0	3006.6	0.0	-0.9	-0.0	-403.3		6
5	4.15	0.0	-3002.7	0.0	-0.9	-0.0	-357.6		6
5	0.00	0.0	2604.7	0.0	-0.5	-0.0	-351.5		7
5	4.15	0.0	-2598.5	0.0	-0.5	-0.0	-311.6		7
5	0.00	0.0	2531.4	0.0	-0.4	-0.0	-342.0		8
5	4.15	0.0	-2524.7	0.0	-0.4	-0.0	-303.2		8
5	0.00	0.0	2531.4	0.0	-0.4	-0.0	-342.0		9
5	4.15	0.0	-2524.7	0.0	-0.4	-0.0	-303.2		9
6	0.00	-0.0	738.1	0.0	-59.7	-0.0	16.8	1	
6	3.56	-0.0	-570.2	0.0	-59.7	0.0	-53.3	1	
6	0.00	-0.0	861.0	0.0	-69.2	-0.0	-64.0	2	
6	3.56	-0.0	-1441.4	0.0	-69.2	0.0	943.8	2	
6	0.00	-0.0	653.0	0.0	-55.0	-0.0	-52.4	3	
6	3.56	-0.0	-1131.2	0.0	-55.0	0.0	765.1	3	
6	0.00	-0.0	315.9	0.0	-26.5	-0.0	-25.2	4	
6	3.56	-0.0	-545.9	0.0	-26.5	0.0	368.3	4	
6	0.00	-0.0	251.1	0.0	-21.2	-0.0	-20.1	5	
6	3.56	-0.0	-435.1	0.0	-21.2	0.0	294.3	5	
6	0.00	0.0	3532.2	0.0	-289.9	-0.0	-177.7		1
6	3.56	0.0	-5130.7	0.0	-289.9	0.0	2857.9		1
6	0.00	0.0	3672.0	0.0	-301.7	-0.0	-189.0		2
6	3.56	0.0	-5374.0	0.0	-301.7	0.0	3023.1		2
6	0.00	0.0	2858.7	0.0	-234.9	-0.0	-148.0		3
6	3.56	0.0	-4191.8	0.0	-234.9	0.0	2364.1		3
6	0.00	0.0	2979.9	0.0	-245.2	-0.0	-157.8		4
6	3.56	0.0	-4402.6	0.0	-245.2	0.0	2507.2		4
6	0.00	0.0	2568.0	0.0	-210.4	-0.0	-124.7		5
6	3.56	0.0	-3688.7	0.0	-210.4	0.0	2024.0		5
6	0.00	0.0	2661.2	0.0	-218.3	-0.0	-132.3		6
6	3.56	0.0	-3850.8	0.0	-218.3	0.0	2134.2		6
6	0.00	0.0	2315.3	0.0	-189.2	-0.0	-104.6		7
6	3.56	0.0	-3252.0	0.0	-189.2	0.0	1729.4		7
6	0.00	0.0	2252.1	0.0	-183.9	-0.0	-99.5		8
6	3.56	0.0	-3142.8	0.0	-183.9	0.0	1655.7		8
6	0.00	0.0	2252.1	0.0	-183.9	-0.0	-99.5		9
6	3.56	0.0	-3142.8	0.0	-183.9	0.0	1655.7		9
7	0.00	-0.0	486.8	-0.0	75.3	0.0	-46.7	1	
7	2.83	-0.0	-628.5	-0.0	75.3	-0.0	17.6	1	

7	0.00	-0.0	1310.8	-0.0	95.1	0.0	977.1	2	
7	2.83	-0.0	-549.9	-0.0	95.1	-0.0	-48.1	2	
7	0.00	-0.0	1030.8	-0.0	75.5	0.0	791.4	3	
7	2.83	-0.0	-408.7	-0.0	75.5	-0.0	-39.7	3	
7	0.00	-0.0	497.3	-0.0	36.4	0.0	381.0	4	
7	2.83	-0.0	-198.1	-0.0	36.4	-0.0	-19.1	4	
7	0.00	-0.0	396.4	-0.0	29.0	0.0	304.4	5	
7	2.83	-0.0	-157.2	-0.0	29.0	-0.0	-15.3	5	
7	0.00	0.0	4629.0	-0.0	389.2	0.0	2968.2		1
7	2.83	0.0	-2442.1	-0.0	389.2	-0.0	-127.7		1
7	0.00	0.0	4850.7	-0.0	405.5	0.0	3139.0		2
7	2.83	0.0	-2529.3	-0.0	405.5	-0.0	-136.2		2
7	0.00	0.0	3784.1	-0.0	315.8	0.0	2454.6		3
7	2.83	0.0	-1967.2	-0.0	315.8	-0.0	-106.8		3
7	0.00	0.0	3976.2	-0.0	329.9	0.0	2602.6		4
7	2.83	0.0	-2042.8	-0.0	329.9	-0.0	-114.2		4
7	0.00	0.0	3325.7	-0.0	282.2	0.0	2102.8		5
7	2.83	0.0	-1785.2	-0.0	282.2	-0.0	-89.2		5
7	0.00	0.0	3473.5	-0.0	293.0	0.0	2216.7		6
7	2.83	0.0	-1843.3	-0.0	293.0	-0.0	-94.9		6
7	0.00	0.0	2927.8	-0.0	253.1	0.0	1798.0		7
7	2.83	0.0	-1626.7	-0.0	253.1	-0.0	-73.9		7
7	0.00	0.0	2828.4	-0.0	245.8	0.0	1721.8		8
7	2.83	0.0	-1587.1	-0.0	245.8	-0.0	-70.1		8
7	0.00	0.0	2828.4	-0.0	245.8	0.0	1721.8		9
7	2.83	0.0	-1587.1	-0.0	245.8	-0.0	-70.1		9
14	0.00	0.1	-384.5	0.0	21.8	-0.0	-18.2	1	
14	3.56	0.1	615.3	0.0	21.8	0.1	-428.5	1	
14	0.00	-15.2	-1387.6	0.0	20.7	-0.0	-162.0	2	
14	3.56	-15.2	1931.4	0.0	20.7	0.1	-1128.6	2	
14	0.00	-12.3	-1094.0	0.0	13.9	-0.0	-129.4	3	
14	3.56	-12.3	1517.2	0.0	13.9	0.0	-881.7	3	
14	0.00	-5.9	-527.7	0.0	6.8	-0.0	-62.4	4	
14	3.56	-5.9	732.1	0.0	6.8	0.0	-425.6	4	
14	0.00	-4.7	-420.8	0.0	5.4	-0.0	-49.8	5	
14	3.56	-4.7	583.5	0.0	5.4	0.0	-339.1	5	
14	0.00	-46.9	-4736.3	0.1	86.3	-0.1	-521.9		1
14	3.56	-46.9	6684.7	0.1	86.3	0.2	-3985.2		1
14	0.00	-49.6	-4971.6	0.1	89.2	-0.1	-549.8		2
14	3.56	-49.6	7010.9	0.1	89.2	0.2	-4174.7		2
14	0.00	-38.8	-3880.3	0.1	69.4	-0.1	-429.5		3
14	3.56	-38.8	5470.8	0.1	69.4	0.2	-3256.6		3
14	0.00	-41.1	-4084.3	0.1	72.0	-0.1	-453.7		4
14	3.56	-41.1	5753.5	0.1	72.0	0.2	-3420.8		4
14	0.00	-33.3	-3393.8	0.1	63.2	-0.1	-372.0		5
14	3.56	-33.3	4796.0	0.1	63.2	0.2	-2864.4		5
14	0.00	-35.1	-3550.7	0.1	65.2	-0.1	-390.6		6
14	3.56	-35.1	5013.5	0.1	65.2	0.2	-2990.7		6
14	0.00	-28.5	-2971.6	0.1	57.8	-0.1	-322.1		7
14	3.56	-28.5	4210.4	0.1	57.8	0.1	-2523.9		7
14	0.00	-27.4	-2866.1	0.1	56.4	-0.1	-309.6		8
14	3.56	-27.4	4063.9	0.1	56.4	0.1	-2438.8		8
14	0.00	-27.4	-2866.1	0.1	56.4	-0.1	-309.6		9
14	3.56	-27.4	4063.9	0.1	56.4	0.1	-2438.8		9
15	0.00	1.7	-544.5	-0.0	-26.5	0.1	-412.9	1	
15	2.83	1.7	250.0	-0.0	-26.5	-0.0	3.1	1	
15	0.00	-8.7	-1666.9	-0.0	-25.0	0.1	-1068.4	2	
15	2.83	-8.7	970.6	-0.0	-25.0	-0.0	-85.0	2	
15	0.00	-7.2	-1308.4	-0.0	-16.8	0.0	-834.2	3	
15	2.83	-7.2	766.5	-0.0	-16.8	-0.0	-68.7	3	
15	0.00	-3.5	-631.4	-0.0	-8.2	0.0	-402.7	4	
15	2.83	-3.5	369.7	-0.0	-8.2	-0.0	-33.1	4	
15	0.00	-2.8	-503.2	-0.0	-6.5	0.0	-320.9	5	
15	2.83	-2.8	294.8	-0.0	-6.5	-0.0	-26.4	5	
15	0.00	-25.1	-5784.6	-0.1	-104.5	0.2	-3781.1		1
15	2.83	-25.1	3291.2	-0.1	-104.5	-0.1	-259.2		1
15	0.00	-26.6	-6065.9	-0.1	-108.1	0.2	-3960.3		2
15	2.83	-26.6	3456.1	-0.1	-108.1	-0.1	-274.0		2
15	0.00	-20.8	-4733.2	-0.1	-84.1	0.2	-3089.3		3
15	2.83	-20.8	2697.7	-0.1	-84.1	-0.1	-214.2		3
15	0.00	-22.2	-4977.0	-0.1	-87.2	0.2	-3244.7		4
15	2.83	-22.2	2840.7	-0.1	-87.2	-0.1	-227.1		4
15	0.00	-17.6	-4151.2	-0.1	-76.6	0.2	-2718.2		5
15	2.83	-17.6	2356.9	-0.1	-76.6	-0.1	-183.7		5
15	0.00	-18.7	-4338.8	-0.1	-78.9	0.2	-2837.7		6

15	2.83	-18.7	2466.8	-0.1	-78.9	-0.1	-193.6		6
15	0.00	-14.9	-3646.1	-0.1	-70.0	0.2	-2396.1		7
15	2.83	-14.9	2061.1	-0.1	-70.0	-0.1	-157.2		7
15	0.00	-14.2	-3519.8	-0.1	-68.3	0.2	-2315.5		8
15	2.83	-14.2	1987.1	-0.1	-68.3	-0.1	-150.6		8
15	0.00	-14.2	-3519.8	-0.1	-68.3	0.2	-2315.5		9
15	2.83	-14.2	1987.1	-0.1	-68.3	-0.1	-150.6		9
16	0.00	-11.7	-583.6	-0.0	-0.1	0.0	-120.4	1	
16	4.15	-11.7	583.6	-0.0	-0.1	0.0	-120.5	1	
16	0.00	-9.6	-581.0	-0.0	0.1	0.0	-115.5	2	
16	4.15	-9.6	581.0	-0.0	0.1	0.0	-115.6	2	
16	0.00	-6.3	-404.6	-0.0	0.1	0.0	-79.2	3	
16	4.15	-6.3	404.7	-0.0	0.1	0.0	-79.3	3	
16	0.00	-3.1	-197.1	-0.0	0.0	0.0	-38.6	4	
16	4.15	-3.1	197.1	-0.0	0.0	0.0	-38.7	4	
16	0.00	-2.4	-155.6	-0.0	0.0	0.0	-30.5	5	
16	4.15	-2.4	155.6	-0.0	0.0	0.0	-30.5	5	
16	0.00	-41.9	-2416.5	-0.0	0.2	0.1	-483.4		1
16	4.15	-41.9	2416.7	-0.0	0.2	0.1	-483.9		1
16	0.00	-43.2	-2502.1	-0.0	0.2	0.1	-500.1		2
16	4.15	-43.2	2502.3	-0.0	0.2	0.1	-500.6		2
16	0.00	-33.6	-1946.8	-0.0	0.2	0.1	-389.0		3
16	4.15	-33.6	1947.0	-0.0	0.2	0.1	-389.5		3
16	0.00	-34.8	-2020.9	-0.0	0.2	0.1	-403.5		4
16	4.15	-34.8	2021.2	-0.0	0.2	0.1	-404.0		4
16	0.00	-30.8	-1766.3	-0.0	0.1	0.1	-353.7		5
16	4.15	-30.8	1766.4	-0.0	0.1	0.1	-354.1		5
16	0.00	-31.7	-1823.3	-0.0	0.2	0.1	-364.8		6
16	4.15	-31.7	1823.5	-0.0	0.2	0.1	-365.2		6
16	0.00	-28.3	-1608.6	-0.0	0.1	0.1	-322.8		7
16	4.15	-28.3	1608.7	-0.0	0.1	0.1	-323.1		7
16	0.00	-27.7	-1569.1	-0.0	0.1	0.1	-315.1		8
16	4.15	-27.7	1569.3	-0.0	0.1	0.1	-315.4		8
16	0.00	-27.7	-1569.1	-0.0	0.1	0.1	-315.1		9
16	4.15	-27.7	1569.3	-0.0	0.1	0.1	-315.4		9
17	0.00	-12.9	-583.6	-0.0	0.1	-0.0	-123.9	1	
17	4.15	-12.9	583.6	-0.0	0.1	-0.0	-123.8	1	
17	0.00	-11.3	-580.9	-0.0	-0.1	-0.0	-119.2	2	
17	4.15	-11.3	581.1	-0.0	-0.1	-0.0	-119.5	2	
17	0.00	-7.5	-404.6	-0.0	-0.1	-0.0	-81.7	3	
17	4.15	-7.5	404.7	-0.0	-0.1	-0.0	-82.0	3	
17	0.00	-3.7	-197.1	-0.0	-0.0	-0.0	-39.9	4	
17	4.15	-3.7	197.2	-0.0	-0.0	-0.0	-40.0	4	
17	0.00	-2.9	-155.6	-0.0	-0.0	-0.0	-31.4	5	
17	4.15	-2.9	155.6	-0.0	-0.0	-0.0	-31.5	5	
17	0.00	-48.2	-2416.4	-0.0	-0.2	-0.1	-498.4		1
17	4.15	-48.2	2416.8	-0.0	-0.2	-0.1	-499.2		1
17	0.00	-49.8	-2502.0	-0.0	-0.3	-0.1	-515.7		2
17	4.15	-49.8	2502.4	-0.0	-0.3	-0.1	-516.5		2
17	0.00	-38.7	-1946.7	-0.0	-0.2	-0.1	-401.2		3
17	4.15	-38.7	1947.0	-0.0	-0.2	-0.1	-401.8		3
17	0.00	-40.1	-2020.9	-0.0	-0.2	-0.1	-416.1		4
17	4.15	-40.1	2021.2	-0.0	-0.2	-0.1	-416.8		4
17	0.00	-35.4	-1766.2	-0.0	-0.2	-0.1	-364.7		5
17	4.15	-35.4	1766.5	-0.0	-0.2	-0.1	-365.2		5
17	0.00	-36.4	-1823.3	-0.0	-0.2	-0.1	-376.2		6
17	4.15	-36.4	1823.5	-0.0	-0.2	-0.1	-376.8		6
17	0.00	-32.4	-1608.5	-0.0	-0.1	-0.1	-332.8		7
17	4.15	-32.4	1608.8	-0.0	-0.1	-0.1	-333.2		7
17	0.00	-31.7	-1569.1	-0.0	-0.1	-0.1	-324.8		8
17	4.15	-31.7	1569.3	-0.0	-0.1	-0.1	-325.3		8
17	0.00	-31.7	-1569.1	-0.0	-0.1	-0.1	-324.8		9
17	4.15	-31.7	1569.3	-0.0	-0.1	-0.1	-325.3		9
18	0.00	0.3	-384.1	-0.0	-21.7	0.0	-17.8	1	
18	3.56	0.3	615.7	-0.0	-21.7	-0.1	-429.5	1	
18	0.00	-15.2	-1388.1	-0.0	-20.5	0.0	-162.5	2	
18	3.56	-15.2	1930.9	-0.0	-20.5	-0.1	-1127.3	2	
18	0.00	-12.3	-1094.4	-0.0	-13.8	0.0	-129.8	3	
18	3.56	-12.3	1516.8	-0.0	-13.8	-0.0	-880.7	3	
18	0.00	-5.9	-527.9	-0.0	-6.7	0.0	-62.6	4	
18	3.56	-5.9	731.9	-0.0	-6.7	-0.0	-425.1	4	
18	0.00	-4.7	-420.9	-0.0	-5.3	0.0	-49.9	5	
18	3.56	-4.7	583.4	-0.0	-5.3	-0.0	-338.7	5	
18	0.00	-46.7	-4737.3	-0.1	-85.7	0.1	-522.8		1
18	3.56	-46.7	6683.7	-0.1	-85.7	-0.2	-3982.6		1

18	0.00	-49.4	-4972.7	-0.1	-88.6	0.1	-550.8		2
18	3.56	-49.4	7009.8	-0.1	-88.6	-0.2	-4171.8		2
18	0.00	-38.6	-3881.2	-0.1	-68.9	0.1	-430.3		3
18	3.56	-38.6	5470.0	-0.1	-68.9	-0.2	-3254.4		3
18	0.00	-40.9	-4085.2	-0.1	-71.5	0.1	-454.5		4
18	3.56	-40.9	5752.6	-0.1	-71.5	-0.2	-3418.4		4
18	0.00	-33.1	-3394.5	-0.1	-62.8	0.1	-372.6		5
18	3.56	-33.1	4795.3	-0.1	-62.8	-0.2	-2862.6		5
18	0.00	-34.9	-3551.4	-0.1	-64.7	0.1	-391.2		6
18	3.56	-34.9	5012.8	-0.1	-64.7	-0.2	-2988.8		6
18	0.00	-28.4	-2972.2	-0.1	-57.4	0.1	-322.5		7
18	3.56	-28.4	4209.8	-0.1	-57.4	-0.2	-2522.5		7
18	0.00	-27.2	-2866.6	-0.1	-56.0	0.1	-310.0		8
18	3.56	-27.2	4063.5	-0.1	-56.0	-0.2	-2437.5		8
18	0.00	-27.2	-2866.6	-0.1	-56.0	0.1	-310.0		9
18	3.56	-27.2	4063.5	-0.1	-56.0	-0.2	-2437.5		9
19	0.00	1.9	-545.2	0.0	26.4	-0.1	-414.1	1	
19	2.83	1.9	249.4	0.0	26.4	0.0	3.7	1	
19	0.00	-8.7	-1666.2	0.0	24.8	-0.1	-1067.1	2	
19	2.83	-8.7	971.3	0.0	24.8	0.0	-85.6	2	
19	0.00	-7.2	-1307.9	0.0	16.7	-0.0	-833.1	3	
19	2.83	-7.2	767.1	0.0	16.7	0.0	-69.2	3	
19	0.00	-3.5	-631.1	0.0	8.2	-0.0	-402.2	4	
19	2.83	-3.5	370.0	0.0	8.2	0.0	-33.3	4	
19	0.00	-2.8	-503.0	0.0	6.4	-0.0	-320.4	5	
19	2.83	-2.8	295.0	0.0	6.4	0.0	-26.6	5	
19	0.00	-24.9	-5783.3	0.1	103.8	-0.2	-3778.5		1
19	2.83	-24.9	3292.5	0.1	103.8	0.1	-260.3		1
19	0.00	-26.5	-6064.5	0.1	107.3	-0.2	-3957.5		2
19	2.83	-26.5	3457.5	0.1	107.3	0.1	-275.2		2
19	0.00	-20.7	-4732.1	0.1	83.5	-0.2	-3087.1		3
19	2.83	-20.7	2698.9	0.1	83.5	0.1	-215.2		3
19	0.00	-22.1	-4975.8	0.1	86.5	-0.2	-3242.2		4
19	2.83	-22.1	2841.9	0.1	86.5	0.1	-228.1		4
19	0.00	-17.5	-4150.3	0.1	76.0	-0.2	-2716.5		5
19	2.83	-17.5	2357.7	0.1	76.0	0.1	-184.4		5
19	0.00	-18.6	-4337.8	0.1	78.4	-0.2	-2835.8		6
19	2.83	-18.6	2467.8	0.1	78.4	0.1	-194.4		6
19	0.00	-14.7	-3645.4	0.1	69.5	-0.2	-2394.7		7
19	2.83	-14.7	2061.8	0.1	69.5	0.1	-157.8		7
19	0.00	-14.1	-3519.2	0.1	67.9	-0.1	-2314.3		8
19	2.83	-14.1	1987.8	0.1	67.9	0.1	-151.1		8
19	0.00	-14.1	-3519.2	0.1	67.9	-0.1	-2314.3		9
19	2.83	-14.1	1987.8	0.1	67.9	0.1	-151.1		9

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RISULTATI : SOLLECITAZIONI PILASTRI PER N.RO DI ELEMENTO

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ELEM.	ascissa	N	V2	V3	T	M2	M3	CDC
COMB.								
n.ro	(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)	n.ro n.ro
8	0.00	-1522.4	35.5	0.7	0.0	15.2	27.3	1
8	3.55	-967.7	35.5	0.7	0.0	17.8	-98.8	1
8	0.00	-1969.1	31.9	63.6	0.0	-63.5	18.0	2
8	3.55	-1969.1	31.9	63.6	0.0	162.4	-95.1	2
8	0.00	-1499.0	21.3	51.2	0.0	-52.0	10.2	3
8	3.55	-1499.0	21.3	51.2	0.0	129.7	-65.5	3
8	0.00	-725.1	10.4	24.7	0.0	-25.0	5.1	4
8	3.55	-725.1	10.4	24.7	0.0	62.5	-31.9	4
8	0.00	-576.5	8.2	19.7	0.0	-20.0	3.9	5
8	3.55	-576.5	8.2	19.7	0.0	49.9	-25.2	5
8	0.00	-7875.1	135.2	197.4	0.0	-178.2	81.9	
8	3.55	-7154.0	135.2	197.4	0.0	522.6	-398.2	1
8	0.00	-8196.1	139.7	208.5	0.0	-189.5	84.0	2
8	3.55	-7475.0	139.7	208.5	0.0	550.6	-412.0	2
8	0.00	-6382.8	108.7	163.0	0.0	-148.4	65.2	3
8	3.55	-5828.1	108.7	163.0	0.0	430.1	-320.5	3
8	0.00	-6661.0	112.5	172.5	0.0	-158.1	67.0	4
8	3.55	-6106.4	112.5	172.5	0.0	454.4	-332.5	4
8	0.00	-5715.6	99.1	140.2	0.0	-125.3	60.6	5
8	3.55	-5160.9	99.1	140.2	0.0	372.4	-291.3	5
8	0.00	-5929.6	102.1	147.6	0.0	-132.8	62.0	6
8	3.55	-5374.9	102.1	147.6	0.0	391.1	-300.5	6
8	0.00	-5135.6	90.8	120.5	0.0	-105.3	56.6	7
8	3.55	-4580.9	90.8	120.5	0.0	322.4	-265.8	7

8	0.00	-4990.6	88.7	115.5	0.0	-100.3	55.5		8
8	3.55	-4435.9	88.7	115.5	0.0	309.9	-259.4		8
8	0.00	-4990.6	88.7	115.5	0.0	-100.3	55.5		9
8	3.55	-4435.9	88.7	115.5	0.0	309.9	-259.4		9
9	0.00	-1715.6	10.0	-6.3	-0.0	7.0	-12.7	1	
9	3.55	-1160.9	10.0	-6.3	-0.0	-15.4	-48.1	1	
9	0.00	-3597.1	6.0	-26.3	0.0	33.2	-23.9	2	
9	3.55	-3597.1	6.0	-26.3	0.0	-60.2	-45.3	2	
9	0.00	-2824.7	2.7	-20.8	0.0	26.2	-20.8	3	
9	3.55	-2824.7	2.7	-20.8	0.0	-47.5	-30.5	3	
9	0.00	-1363.0	1.4	-10.0	0.0	12.7	-9.9	4	
9	3.55	-1363.0	1.4	-10.0	0.0	-22.9	-14.9	4	
9	0.00	-1086.4	1.1	-8.0	0.0	10.1	-8.0	5	
9	3.55	-1086.4	1.1	-8.0	0.0	-18.3	-11.7	5	
9	0.00	-13188.0	27.0	-88.6	0.0	110.5	-93.6		1
9	3.55	-12466.9	27.0	-88.6	0.0	-204.1	-189.5		1
9	0.00	-13795.4	27.5	-93.1	0.0	116.1	-98.1		2
9	3.55	-13074.3	27.5	-93.1	0.0	-214.3	-195.9		2
9	0.00	-10756.7	21.4	-72.7	0.0	90.7	-76.5		3
9	3.55	-10202.0	21.4	-72.7	0.0	-167.3	-152.4		3
9	0.00	-11283.1	21.8	-76.5	0.0	95.6	-80.4		4
9	3.55	-10728.4	21.8	-76.5	0.0	-176.2	-158.0		4
9	0.00	-9500.4	20.1	-63.4	0.0	79.0	-67.3		5
9	3.55	-8945.7	20.1	-63.4	0.0	-146.2	-138.8		5
9	0.00	-9905.3	20.5	-66.4	0.0	82.8	-70.3		6
9	3.55	-9350.6	20.5	-66.4	0.0	-153.0	-143.1		6
9	0.00	-8410.0	19.0	-55.4	0.0	68.9	-59.3		7
9	3.55	-7855.3	19.0	-55.4	0.0	-127.8	-126.9		7
9	0.00	-8137.4	18.7	-53.4	0.0	66.3	-57.3		8
9	3.55	-7582.7	18.7	-53.4	0.0	-123.2	-123.9		8
9	0.00	-8137.4	18.7	-53.4	0.0	66.3	-57.3		9
9	3.55	-7582.7	18.7	-53.4	0.0	-123.2	-123.9		9
10	0.00	-1387.6	34.9	5.6	-0.0	-16.3	26.6	1	
10	3.55	-833.0	34.9	5.6	-0.0	3.6	-97.4	1	
10	0.00	-1552.4	32.1	-37.3	-0.0	47.1	19.4	2	
10	3.55	-1552.4	32.1	-37.3	-0.0	-85.5	-94.7	2	
10	0.00	-1171.7	21.6	-30.4	-0.0	38.9	11.4	3	
10	3.55	-1171.7	21.6	-30.4	-0.0	-69.1	-65.3	3	
10	0.00	-567.1	10.5	-14.6	-0.0	18.7	5.6	4	
10	3.55	-567.1	10.5	-14.6	-0.0	-33.3	-31.8	4	
10	0.00	-450.7	8.3	-11.7	-0.0	15.0	4.4	5	
10	3.55	-450.7	8.3	-11.7	-0.0	-26.6	-25.1	5	
10	0.00	-6430.4	135.4	-108.9	-0.0	126.5	85.3		1
10	3.55	-5709.3	135.4	-108.9	-0.0	-260.0	-395.4		1
10	0.00	-6681.0	140.0	-115.4	-0.0	134.9	87.7		2
10	3.55	-5959.9	140.0	-115.4	-0.0	-274.9	-409.2		2
10	0.00	-5200.6	108.9	-90.3	-0.0	105.7	68.1		3
10	3.55	-4645.9	108.9	-90.3	-0.0	-215.0	-318.3		3
10	0.00	-5417.8	112.8	-96.0	-0.0	113.0	70.1		4
10	3.55	-4863.1	112.8	-96.0	-0.0	-227.9	-330.3		4
10	0.00	-4678.9	99.2	-76.8	-0.0	88.4	63.0		5
10	3.55	-4124.2	99.2	-76.8	-0.0	-184.3	-289.2		5
10	0.00	-4846.0	102.2	-81.2	-0.0	94.0	64.6		6
10	3.55	-4291.3	102.2	-81.2	-0.0	-194.2	-298.4		6
10	0.00	-4225.2	90.8	-65.1	-0.0	73.4	58.5		7
10	3.55	-3670.5	90.8	-65.1	-0.0	-157.6	-263.8		7
10	0.00	-4111.8	88.7	-62.2	-0.0	69.7	57.4		8
10	3.55	-3557.1	88.7	-62.2	-0.0	-151.0	-257.4		8
10	0.00	-4111.8	88.7	-62.2	-0.0	69.7	57.4		9
10	3.55	-3557.1	88.7	-62.2	-0.0	-151.0	-257.4		9
11	0.00	-1388.3	-34.8	5.4	0.0	-15.8	-26.4	1	
11	3.55	-833.6	-34.8	5.4	0.0	3.2	97.3	1	
11	0.00	-1551.6	-31.8	-37.1	0.0	46.7	-18.8	2	
11	3.55	-1551.6	-31.8	-37.1	0.0	-85.1	94.2	2	
11	0.00	-1171.1	-21.4	-30.3	0.0	38.6	-10.9	3	
11	3.55	-1171.1	-21.4	-30.3	0.0	-68.8	64.9	3	
11	0.00	-566.8	-10.4	-14.6	0.0	18.6	-5.4	4	
11	3.55	-566.8	-10.4	-14.6	0.0	-33.1	31.7	4	
11	0.00	-450.4	-8.2	-11.6	0.0	14.8	-4.2	5	
11	3.55	-450.4	-8.2	-11.6	0.0	-26.5	25.0	5	
11	0.00	-6428.7	-134.4	-108.5	0.0	125.9	-83.1		1
11	3.55	-5707.6	-134.4	-108.5	0.0	-259.4	393.9		1
11	0.00	-6679.2	-138.9	-115.1	0.0	134.3	-85.4		2
11	3.55	-5958.1	-138.9	-115.1	0.0	-274.3	407.6		2
11	0.00	-5199.1	-108.0	-90.0	0.0	105.2	-66.3		3

11	3.55	-4644.4	-108.0	-90.0	0.0	-214.4	317.1		3
11	0.00	-5416.3	-111.9	-95.7	0.0	112.5	-68.3		4
11	3.55	-4861.6	-111.9	-95.7	0.0	-227.3	329.0		4
11	0.00	-4677.8	-98.5	-76.6	0.0	88.1	-61.4		5
11	3.55	-4123.1	-98.5	-76.6	0.0	-183.9	288.1		5
11	0.00	-4844.8	-101.5	-81.0	0.0	93.6	-62.9		6
11	3.55	-4290.1	-101.5	-81.0	0.0	-193.8	297.3		6
11	0.00	-4224.3	-90.1	-64.9	0.0	73.2	-57.1		7
11	3.55	-3669.6	-90.1	-64.9	0.0	-157.3	262.8		7
11	0.00	-4110.9	-88.0	-62.0	0.0	69.5	-56.0		8
11	3.55	-3556.3	-88.0	-62.0	0.0	-150.7	256.5		8
11	0.00	-4110.9	-88.0	-62.0	0.0	69.5	-56.0		9
11	3.55	-3556.3	-88.0	-62.0	0.0	-150.7	256.5		9
12	0.00	-1714.5	-10.2	-6.4	0.0	7.1	12.0	1	
12	3.55	-1159.9	-10.2	-6.4	0.0	-15.6	48.3	1	
12	0.00	-3598.3	-6.5	-26.3	0.0	33.1	22.5	2	
12	3.55	-3598.3	-6.5	-26.3	0.0	-60.2	45.6	2	
12	0.00	-2825.6	-3.1	-20.8	0.0	26.2	19.6	3	
12	3.55	-2825.6	-3.1	-20.8	0.0	-47.5	30.8	3	
12	0.00	-1363.5	-1.6	-10.0	0.0	12.6	9.4	4	
12	3.55	-1363.5	-1.6	-10.0	0.0	-22.9	15.0	4	
12	0.00	-1086.8	-1.2	-8.0	0.0	10.1	7.6	5	
12	3.55	-1086.8	-1.2	-8.0	0.0	-18.3	11.8	5	
12	0.00	-13190.3	-28.8	-88.7	0.0	110.6	88.5		1
12	3.55	-12469.2	-28.8	-88.7	0.0	-204.1	190.9		1
12	0.00	-13797.9	-29.5	-93.1	0.0	116.2	92.8		2
12	3.55	-13076.8	-29.5	-93.1	0.0	-214.3	197.3		2
12	0.00	-10758.7	-22.9	-72.7	0.0	90.8	72.3		3
12	3.55	-10204.0	-22.9	-72.7	0.0	-167.3	153.5		3
12	0.00	-11285.2	-23.4	-76.6	0.0	95.6	76.0		4
12	3.55	-10730.5	-23.4	-76.6	0.0	-176.2	159.1		4
12	0.00	-9501.9	-21.5	-63.5	0.0	79.1	63.6		5
12	3.55	-8947.2	-21.5	-63.5	0.0	-146.2	139.8		5
12	0.00	-9907.0	-21.9	-66.4	0.0	82.9	66.4		6
12	3.55	-9352.3	-21.9	-66.4	0.0	-153.0	144.1		6
12	0.00	-8411.2	-20.2	-55.4	0.0	69.0	56.1		7
12	3.55	-7856.5	-20.2	-55.4	0.0	-127.8	127.7		7
12	0.00	-8138.5	-19.9	-53.4	0.0	66.5	54.2		8
12	3.55	-7583.8	-19.9	-53.4	0.0	-123.3	124.7		8
12	0.00	-8138.5	-19.9	-53.4	0.0	66.5	54.2		9
12	3.55	-7583.8	-19.9	-53.4	0.0	-123.3	124.7		9
13	0.00	-1522.8	-35.4	1.0	-0.0	14.7	-27.0	1	
13	3.55	-968.1	-35.4	1.0	-0.0	18.2	98.6	1	
13	0.00	-1968.6	-31.7	63.5	-0.0	-63.2	-17.6	2	
13	3.55	-1968.6	-31.7	63.5	-0.0	162.1	94.8	2	
13	0.00	-1498.6	-21.2	51.1	-0.0	-51.8	-9.9	3	
13	3.55	-1498.6	-21.2	51.1	-0.0	129.5	65.2	3	
13	0.00	-724.8	-10.3	24.6	-0.0	-24.9	-4.9	4	
13	3.55	-724.8	-10.3	24.6	-0.0	62.4	31.8	4	
13	0.00	-576.4	-8.1	19.6	-0.0	-19.9	-3.8	5	
13	3.55	-576.4	-8.1	19.6	-0.0	49.8	25.1	5	
13	0.00	-7873.9	-134.4	197.3	-0.0	-178.1	-80.2		1
13	3.55	-7152.8	-134.4	197.3	-0.0	522.2	397.1		1
13	0.00	-8194.8	-138.9	208.3	-0.0	-189.3	-82.3		2
13	3.55	-7473.7	-138.9	208.3	-0.0	550.1	410.8		2
13	0.00	-6381.8	-108.0	162.8	-0.0	-148.2	-63.9		3
13	3.55	-5827.1	-108.0	162.8	-0.0	429.7	319.6		3
13	0.00	-6659.9	-111.9	172.3	-0.0	-157.9	-65.6		4
13	3.55	-6105.2	-111.9	172.3	-0.0	453.9	331.5		4
13	0.00	-5714.8	-98.6	140.1	-0.0	-125.2	-59.4		5
13	3.55	-5160.1	-98.6	140.1	-0.0	372.1	290.5		5
13	0.00	-5928.7	-101.5	147.4	-0.0	-132.7	-60.8		6
13	3.55	-5374.0	-101.5	147.4	-0.0	390.7	299.7		6
13	0.00	-5134.9	-90.3	120.4	-0.0	-105.3	-55.5		7
13	3.55	-4580.2	-90.3	120.4	-0.0	322.2	265.0		7
13	0.00	-4989.9	-88.2	115.5	-0.0	-100.3	-54.5		8
13	3.55	-4435.2	-88.2	115.5	-0.0	309.7	258.7		8
13	0.00	-4989.9	-88.2	115.5	-0.0	-100.3	-54.5		9
13	3.55	-4435.2	-88.2	115.5	-0.0	309.7	258.7		9

DESCRIZIONE TABELLA TENSIONI TRAVI E PILASTRI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella TENSIONI TRAVI E PILASTRI.

Per ogni gruppo di elementi ed internamente ad esso, per ogni elemento ad esso appartenente ed in ogni condizione di carico considerata vengono riportate, secondo modalita' diverse da tipo a tipo di elemento, le tensioni in punti caratteristici riferiti alla terna locale.

ELEM. numero dell' elemento
 n.ro
 x ascissa locale misurata dal nodo I al nodo J
 N/A tensione da sforzo normale nel p.to x
 M2/W2 tensione da momento flettente ' ' ' intorno asse 2 locale
 M3/W3 tensione da momento flettente ' ' ' ' 3 '

Per la descrizione delle convenzioni usate per il segno delle azioni interne, si rimanda alla documentazione fornita con il programma.

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RISULTATI : TENSIONI TRAVI PER N.RO DI ELEMENTO

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ELEM. n.ro	ascissa (cm)	N/A =====	M2/W2 (Kg/cm2) =====	M3/W3 =====	CDC n.ro	COMB. n.ro
1	0.00	-0.0	0.0	0.0	1	
1	168.39	-0.0	0.0	-1.6	1	
1	355.50	-0.0	-0.0	-0.2	1	
1	0.00	-0.0	0.0	-0.2	2	
1	168.39	-0.0	0.0	-1.7	2	
1	355.50	-0.0	-0.0	2.7	2	
1	0.00	-0.0	0.0	-0.1	3	
1	168.39	-0.0	0.0	-1.3	3	
1	355.50	-0.0	-0.0	2.2	3	
1	0.00	-0.0	0.0	-0.1	4	
1	168.39	-0.0	0.0	-0.6	4	
1	355.50	-0.0	-0.0	1.1	4	
1	0.00	-0.0	0.0	-0.1	5	
1	168.39	-0.0	0.0	-0.5	5	
1	355.50	-0.0	-0.0	0.8	5	
1	0.00	0.0	0.0	-0.5		1
1	168.39	0.0	0.0	-7.1		1
1	355.50	0.0	-0.0	8.1		1
1	0.00	0.0	0.0	-0.5		2
1	168.39	0.0	0.0	-7.4		2
1	355.50	0.0	-0.0	8.6		2
1	0.00	0.0	0.0	-0.4		3
1	168.39	0.0	0.0	-5.8		3
1	355.50	0.0	-0.0	6.7		3
1	0.00	0.0	0.0	-0.5		4
1	168.39	0.0	0.0	-6.0		4
1	355.50	0.0	-0.0	7.1		4
1	0.00	0.0	0.0	-0.4		5
1	168.39	0.0	0.0	-5.2		5
1	355.50	0.0	-0.0	5.7		5
1	0.00	0.0	0.0	-0.4		6
1	168.39	0.0	0.0	-5.4		6
1	355.50	0.0	-0.0	6.1		6
1	0.00	0.0	0.0	-0.3		7
1	168.39	0.0	0.0	-4.7		7
1	355.50	0.0	-0.0	4.9		7
1	0.00	0.0	0.0	-0.3		8
1	168.39	0.0	0.0	-4.6		8
1	355.50	0.0	-0.0	4.7		8
1	0.00	0.0	0.0	-0.3		9
1	168.39	0.0	0.0	-4.6		9
1	355.50	0.0	-0.0	4.7		9
2	0.00	-0.0	-0.0	-0.2	1	
2	133.82	-0.0	0.0	-1.1	1	
2	282.50	-0.0	0.0	0.0	1	
2	0.00	-0.0	-0.0	2.8	2	
2	133.82	-0.0	0.0	-0.5	2	
2	282.50	-0.0	0.0	-0.1	2	

2	0.00	-0.0	-0.0	2.3	3	
2	133.82	-0.0	0.0	-0.3	3	
2	282.50	-0.0	0.0	-0.1	3	
2	0.00	-0.0	-0.0	1.1	4	
2	133.82	-0.0	0.0	-0.2	4	
2	282.50	-0.0	0.0	-0.1	4	
2	0.00	-0.0	-0.0	0.9	5	
2	133.82	-0.0	0.0	-0.1	5	
2	282.50	-0.0	0.0	-0.0	5	
2	0.00	0.0	-0.0	8.4	5	
2	133.82	0.0	0.0	-2.8		1
2	282.50	0.0	0.0	-0.4		1
2	0.00	0.0	-0.0	8.9		1
2	133.82	0.0	0.0	-2.9		2
2	282.50	0.0	0.0	-0.4		2
2	0.00	0.0	-0.0	7.0		2
2	133.82	0.0	0.0	-2.2		3
2	282.50	0.0	0.0	-0.3		3
2	0.00	0.0	-0.0	7.4		3
2	133.82	0.0	0.0	-2.3		4
2	282.50	0.0	0.0	-0.3		4
2	0.00	0.0	-0.0	6.0		4
2	133.82	0.0	0.0	-2.1		5
2	282.50	0.0	0.0	-0.3		5
2	0.00	0.0	-0.0	6.3		5
2	133.82	0.0	0.0	-2.1		6
2	282.50	0.0	0.0	-0.3		6
2	0.00	0.0	-0.0	5.1		6
2	133.82	0.0	0.0	-2.0		7
2	282.50	0.0	0.0	-0.2		7
2	0.00	0.0	-0.0	4.9		7
2	133.82	0.0	0.0	-1.9		8
2	282.50	0.0	0.0	-0.2		8
2	0.00	0.0	-0.0	4.9		8
2	133.82	0.0	0.0	-1.9		9
2	282.50	0.0	0.0	-0.2		9
3	0.00	-0.0	0.0	-0.3		9
3	196.58	-0.0	0.0	-2.4	1	
3	415.00	-0.0	0.0	-0.3	1	
3	0.00	-0.0	0.0	-0.3	1	
3	196.58	-0.0	0.0	-3.3	2	
3	415.00	-0.0	0.0	-0.3	2	
3	0.00	-0.0	0.0	-0.2	2	
3	196.58	-0.0	0.0	-2.5	3	
3	415.00	-0.0	0.0	-0.2	3	
3	0.00	-0.0	0.0	-0.1	3	
3	196.58	-0.0	0.0	-1.2	4	
3	415.00	-0.0	0.0	-0.1	4	
3	0.00	-0.0	0.0	-0.1	4	
3	196.58	-0.0	0.0	-1.0	5	
3	415.00	-0.0	0.0	-0.1	5	
3	0.00	0.0	0.0	-1.2	5	
3	196.58	0.0	0.0	-13.0		1
3	415.00	0.0	0.0	-1.1		1
3	0.00	0.0	0.0	-1.2		1
3	196.58	0.0	0.0	-13.6		2
3	415.00	0.0	0.0	-1.1		2
3	0.00	0.0	0.0	-1.0		2
3	196.58	0.0	0.0	-10.6		3
3	415.00	0.0	0.0	-0.9		3
3	0.00	0.0	0.0	-1.0		3
3	196.58	0.0	0.0	-11.0		4
3	415.00	0.0	0.0	-0.9		4
3	0.00	0.0	0.0	-0.9		4
3	196.58	0.0	0.0	-9.5		5
3	415.00	0.0	0.0	-0.8		5
3	0.00	0.0	0.0	-0.9		5
3	196.58	0.0	0.0	-9.8		6
3	415.00	0.0	0.0	-0.8		6
3	0.00	0.0	0.0	-0.8		6
3	196.58	0.0	0.0	-8.5		7
3	415.00	0.0	0.0	-0.7		7
3	0.00	0.0	0.0	-0.8		7
3	196.58	0.0	0.0	-8.2		8
3	415.00	0.0	0.0	-0.7		8

3	0.00	0.0	0.0	-0.8		9
3	196.58	0.0	0.0	-8.2		9
3	415.00	0.0	0.0	-0.7		9
4	0.00	-0.0	-0.0	0.9	1	
4	196.58	-0.0	-0.0	-2.2	1	
4	415.00	-0.0	0.0	0.8	1	
4	0.00	-0.0	-0.0	1.1	2	
4	196.58	-0.0	-0.0	-2.7	2	
4	415.00	-0.0	0.0	1.0	2	
4	0.00	-0.0	-0.0	0.9	3	
4	196.58	-0.0	-0.0	-2.1	3	
4	415.00	-0.0	0.0	0.8	3	
4	0.00	-0.0	-0.0	0.4	4	
4	196.58	-0.0	-0.0	-1.0	4	
4	415.00	-0.0	0.0	0.4	4	
4	0.00	-0.0	-0.0	0.3	5	
4	196.58	-0.0	-0.0	-0.8	5	
4	415.00	-0.0	0.0	0.3	5	
4	0.00	0.0	-0.0	4.7		1
4	196.58	0.0	-0.0	-11.2		1
4	415.00	0.0	0.0	4.1		1
4	0.00	0.0	-0.0	4.9		2
4	196.58	0.0	-0.0	-11.6		2
4	415.00	0.0	0.0	4.3		2
4	0.00	0.0	-0.0	3.8		3
4	196.58	0.0	-0.0	-9.1		3
4	415.00	0.0	0.0	3.4		3
4	0.00	0.0	-0.0	4.0		4
4	196.58	0.0	-0.0	-9.5		4
4	415.00	0.0	0.0	3.5		4
4	0.00	0.0	-0.0	3.4		5
4	196.58	0.0	-0.0	-8.1		5
4	415.00	0.0	0.0	3.0		5
4	0.00	0.0	-0.0	3.5		6
4	196.58	0.0	-0.0	-8.4		6
4	415.00	0.0	0.0	3.1		6
4	0.00	0.0	-0.0	3.1		7
4	196.58	0.0	-0.0	-7.3		7
4	415.00	0.0	0.0	2.7		7
4	0.00	0.0	-0.0	3.0		8
4	196.58	0.0	-0.0	-7.1		8
4	415.00	0.0	0.0	2.6		8
4	0.00	0.0	-0.0	3.0		9
4	196.58	0.0	-0.0	-7.1		9
4	415.00	0.0	0.0	2.6		9
5	0.00	-0.0	-0.0	-0.3	1	
5	196.58	-0.0	-0.0	-2.4	1	
5	415.00	-0.0	-0.0	-0.3	1	
5	0.00	-0.0	-0.0	-0.4	2	
5	196.58	-0.0	-0.0	-3.1	2	
5	415.00	-0.0	-0.0	-0.3	2	
5	0.00	-0.0	-0.0	-0.3	3	
5	196.58	-0.0	-0.0	-2.3	3	
5	415.00	-0.0	0.0	-0.3	3	
5	0.00	-0.0	-0.0	-0.1	4	
5	196.58	-0.0	-0.0	-1.1	4	
5	415.00	-0.0	0.0	-0.1	4	
5	0.00	-0.0	-0.0	-0.1	5	
5	196.58	-0.0	-0.0	-0.9	5	
5	415.00	-0.0	0.0	-0.1	5	
5	0.00	0.0	-0.0	-1.5		1
5	196.58	0.0	-0.0	-12.3		1
5	415.00	0.0	-0.0	-1.4		1
5	0.00	0.0	-0.0	-1.6		2
5	196.58	0.0	-0.0	-12.8		2
5	415.00	0.0	-0.0	-1.4		2
5	0.00	0.0	-0.0	-1.2		3
5	196.58	0.0	-0.0	-10.0		3
5	415.00	0.0	-0.0	-1.1		3
5	0.00	0.0	-0.0	-1.3		4
5	196.58	0.0	-0.0	-10.4		4
5	415.00	0.0	-0.0	-1.2		4
5	0.00	0.0	-0.0	-1.1		5
5	196.58	0.0	-0.0	-9.0		5
5	415.00	0.0	-0.0	-1.0		5

5	0.00	0.0	-0.0	-1.2		6
5	196.58	0.0	-0.0	-9.3		6
5	415.00	0.0	-0.0	-1.0		6
5	0.00	0.0	-0.0	-1.0		7
5	196.58	0.0	-0.0	-8.1		7
5	415.00	0.0	-0.0	-0.9		7
5	0.00	0.0	-0.0	-1.0		8
5	196.58	0.0	-0.0	-7.8		8
5	415.00	0.0	-0.0	-0.9		8
5	0.00	0.0	-0.0	-1.0		9
5	196.58	0.0	-0.0	-7.8		9
5	415.00	0.0	-0.0	-0.9		9
6	0.00	-0.0	-0.0	0.0	1	
6	168.39	-0.0	-0.0	-1.7	1	
6	355.50	-0.0	0.0	-0.2	1	
6	0.00	-0.0	-0.0	-0.2	2	
6	168.39	-0.0	-0.0	-1.7	2	
6	355.50	-0.0	0.0	2.8	2	
6	0.00	-0.0	-0.0	-0.2	3	
6	168.39	-0.0	-0.0	-1.3	3	
6	355.50	-0.0	0.0	2.2	3	
6	0.00	-0.0	-0.0	-0.1	4	
6	168.39	-0.0	-0.0	-0.6	4	
6	355.50	-0.0	0.0	1.1	4	
6	0.00	-0.0	-0.0	-0.1	5	
6	168.39	-0.0	-0.0	-0.5	5	
6	355.50	-0.0	0.0	0.9	5	
6	0.00	0.0	-0.0	-0.5		1
6	168.39	0.0	-0.0	-7.3		1
6	355.50	0.0	0.0	8.4		1
6	0.00	0.0	-0.0	-0.6		2
6	168.39	0.0	-0.0	-7.5		2
6	355.50	0.0	0.0	8.9		2
6	0.00	0.0	-0.0	-0.4		3
6	168.39	0.0	-0.0	-5.9		3
6	355.50	0.0	0.0	6.9		3
6	0.00	0.0	-0.0	-0.5		4
6	168.39	0.0	-0.0	-6.1		4
6	355.50	0.0	0.0	7.3		4
6	0.00	0.0	-0.0	-0.4		5
6	168.39	0.0	-0.0	-5.3		5
6	355.50	0.0	0.0	5.9		5
6	0.00	0.0	-0.0	-0.4		6
6	168.39	0.0	-0.0	-5.5		6
6	355.50	0.0	0.0	6.2		6
6	0.00	0.0	-0.0	-0.3		7
6	168.39	0.0	-0.0	-4.8		7
6	355.50	0.0	0.0	5.1		7
6	0.00	0.0	-0.0	-0.3		8
6	168.39	0.0	-0.0	-4.7		8
6	355.50	0.0	0.0	4.8		8
6	0.00	0.0	-0.0	-0.3		9
6	168.39	0.0	-0.0	-4.7		9
6	355.50	0.0	0.0	4.8		9
7	0.00	-0.0	0.0	-0.1	1	
7	133.82	-0.0	-0.0	-1.2	1	
7	282.50	-0.0	-0.0	0.1	1	
7	0.00	-0.0	0.0	2.9	2	
7	133.82	-0.0	-0.0	-0.5	2	
7	282.50	-0.0	-0.0	-0.1	2	
7	0.00	-0.0	0.0	2.3	3	
7	133.82	-0.0	-0.0	-0.3	3	
7	282.50	-0.0	-0.0	-0.1	3	
7	0.00	-0.0	0.0	1.1	4	
7	133.82	-0.0	-0.0	-0.2	4	
7	282.50	-0.0	-0.0	-0.1	4	
7	0.00	-0.0	0.0	0.9	5	
7	133.82	-0.0	-0.0	-0.1	5	
7	282.50	-0.0	-0.0	-0.0	5	
7	0.00	0.0	0.0	8.7		1
7	133.82	0.0	-0.0	-2.9		1
7	282.50	0.0	-0.0	-0.4		1
7	0.00	0.0	0.0	9.2		2
7	133.82	0.0	-0.0	-2.9		2
7	282.50	0.0	-0.0	-0.4		2

7	0.00	0.0	0.0	7.2		3
7	133.82	0.0	-0.0	-2.3		3
7	282.50	0.0	-0.0	-0.3		3
7	0.00	0.0	0.0	7.6		4
7	133.82	0.0	-0.0	-2.3		4
7	282.50	0.0	-0.0	-0.3		4
7	0.00	0.0	0.0	6.2		5
7	133.82	0.0	-0.0	-2.1		5
7	282.50	0.0	-0.0	-0.3		5
7	0.00	0.0	0.0	6.5		6
7	133.82	0.0	-0.0	-2.2		6
7	282.50	0.0	-0.0	-0.3		6
7	0.00	0.0	0.0	5.3		7
7	133.82	0.0	-0.0	-2.0		7
7	282.50	0.0	-0.0	-0.2		7
7	0.00	0.0	0.0	5.0		8
7	133.82	0.0	-0.0	-2.0		8
7	282.50	0.0	-0.0	-0.2		8
7	0.00	0.0	0.0	5.0		9
7	133.82	0.0	-0.0	-2.0		9
7	282.50	0.0	-0.0	-0.2		9
14	0.00	0.0	-0.0	-0.2	1	
14	168.39	0.0	0.0	2.7	1	
14	355.50	0.0	0.0	-5.1	1	
14	0.00	-0.0	-0.0	-1.9	2	
14	168.39	-0.0	0.0	10.1	2	
14	355.50	-0.0	0.0	-13.4	2	
14	0.00	-0.0	-0.0	-1.5	3	
14	168.39	-0.0	0.0	8.0	3	
14	355.50	-0.0	0.0	-10.5	3	
14	0.00	-0.0	-0.0	-0.7	4	
14	168.39	-0.0	0.0	3.8	4	
14	355.50	-0.0	0.0	-5.0	4	
14	0.00	-0.0	-0.0	-0.6	5	
14	168.39	-0.0	0.0	3.1	5	
14	355.50	-0.0	0.0	-4.0	5	
14	0.00	-0.0	-0.0	-6.2		1
14	168.39	-0.0	0.0	34.4		1
14	355.50	-0.0	0.0	-47.2		1
14	0.00	-0.0	-0.0	-6.5		2
14	168.39	-0.0	0.0	36.1		2
14	355.50	-0.0	0.0	-49.5		2
14	0.00	-0.0	-0.0	-5.1		3
14	168.39	-0.0	0.0	28.2		3
14	355.50	-0.0	0.0	-38.6		3
14	0.00	-0.0	-0.0	-5.4		4
14	168.39	-0.0	0.0	29.6		4
14	355.50	-0.0	0.0	-40.5		4
14	0.00	-0.0	-0.0	-4.4		5
14	168.39	-0.0	0.0	24.6		5
14	355.50	-0.0	0.0	-33.9		5
14	0.00	-0.0	-0.0	-4.6		6
14	168.39	-0.0	0.0	25.8		6
14	355.50	-0.0	0.0	-35.4		6
14	0.00	-0.0	-0.0	-3.8		7
14	168.39	-0.0	0.0	21.5		7
14	355.50	-0.0	0.0	-29.9		7
14	0.00	-0.0	-0.0	-3.7		8
14	168.39	-0.0	0.0	20.8		8
14	355.50	-0.0	0.0	-28.9		8
14	0.00	-0.0	-0.0	-3.7		9
14	168.39	-0.0	0.0	20.8		9
14	355.50	-0.0	0.0	-28.9		9
15	0.00	0.0	0.0	-4.9	1	
15	133.82	0.0	0.0	0.8	1	
15	282.50	0.0	-0.0	0.0	1	
15	0.00	-0.0	0.0	-12.7	2	
15	133.82	-0.0	0.0	3.9	2	
15	282.50	-0.0	-0.0	-1.0	2	
15	0.00	-0.0	0.0	-9.9	3	
15	133.82	-0.0	0.0	3.1	3	
15	282.50	-0.0	-0.0	-0.8	3	
15	0.00	-0.0	0.0	-4.8	4	
15	133.82	-0.0	0.0	1.5	4	
15	282.50	-0.0	-0.0	-0.4	4	

15	0.00	-0.0	0.0	-3.8	5	
15	133.82	-0.0	0.0	1.2	5	
15	282.50	-0.0	-0.0	-0.3	5	
15	0.00	-0.0	0.0	-44.8		1
15	133.82	-0.0	0.0	12.8		1
15	282.50	-0.0	-0.0	-3.1		1
15	0.00	-0.0	0.0	-46.9		2
15	133.82	-0.0	0.0	13.5		2
15	282.50	-0.0	-0.0	-3.2		2
15	0.00	-0.0	0.0	-36.6		3
15	133.82	-0.0	0.0	10.5		3
15	282.50	-0.0	-0.0	-2.5		3
15	0.00	-0.0	0.0	-38.5		4
15	133.82	-0.0	0.0	11.1		4
15	282.50	-0.0	-0.0	-2.7		4
15	0.00	-0.0	0.0	-32.2		5
15	133.82	-0.0	0.0	9.2		5
15	282.50	-0.0	-0.0	-2.2		5
15	0.00	-0.0	0.0	-33.6		6
15	133.82	-0.0	0.0	9.6		6
15	282.50	-0.0	-0.0	-2.3		6
15	0.00	-0.0	0.0	-28.4		7
15	133.82	-0.0	0.0	8.0		7
15	282.50	-0.0	-0.0	-1.9		7
15	0.00	-0.0	0.0	-27.4		8
15	133.82	-0.0	0.0	7.7		8
15	282.50	-0.0	-0.0	-1.8		8
15	0.00	-0.0	0.0	-27.4		9
15	133.82	-0.0	0.0	7.7		9
15	282.50	-0.0	-0.0	-1.8		9
16	0.00	-0.0	0.0	-1.4	1	
16	196.58	-0.0	0.0	5.7	1	
16	415.00	-0.0	0.0	-1.4	1	
16	0.00	-0.0	0.0	-1.4	2	
16	196.58	-0.0	0.0	5.8	2	
16	415.00	-0.0	0.0	-1.4	2	
16	0.00	-0.0	0.0	-0.9	3	
16	196.58	-0.0	0.0	4.0	3	
16	415.00	-0.0	0.0	-0.9	3	
16	0.00	-0.0	0.0	-0.5	4	
16	196.58	-0.0	0.0	2.0	4	
16	415.00	-0.0	0.0	-0.5	4	
16	0.00	-0.0	0.0	-0.4	5	
16	196.58	-0.0	0.0	1.5	5	
16	415.00	-0.0	0.0	-0.4	5	
16	0.00	-0.0	0.0	-5.7		1
16	196.58	-0.0	0.0	23.9		1
16	415.00	-0.0	0.0	-5.7		1
16	0.00	-0.0	0.0	-5.9		2
16	196.58	-0.0	0.0	24.8		2
16	415.00	-0.0	0.0	-5.9		2
16	0.00	-0.0	0.0	-4.6		3
16	196.58	-0.0	0.0	19.3		3
16	415.00	-0.0	0.0	-4.6		3
16	0.00	-0.0	0.0	-4.8		4
16	196.58	-0.0	0.0	20.0		4
16	415.00	-0.0	0.0	-4.8		4
16	0.00	-0.0	0.0	-4.2		5
16	196.58	-0.0	0.0	17.5		5
16	415.00	-0.0	0.0	-4.2		5
16	0.00	-0.0	0.0	-4.3		6
16	196.58	-0.0	0.0	18.0		6
16	415.00	-0.0	0.0	-4.3		6
16	0.00	-0.0	0.0	-3.8		7
16	196.58	-0.0	0.0	15.9		7
16	415.00	-0.0	0.0	-3.8		7
16	0.00	-0.0	0.0	-3.7		8
16	196.58	-0.0	0.0	15.5		8
16	415.00	-0.0	0.0	-3.7		8
16	0.00	-0.0	0.0	-3.7		9
16	196.58	-0.0	0.0	15.5		9
16	415.00	-0.0	0.0	-3.7		9
17	0.00	-0.0	-0.0	-1.5	1	
17	196.58	-0.0	-0.0	5.7	1	
17	415.00	-0.0	-0.0	-1.5	1	

17	0.00	-0.0	-0.0	-1.4	2	
17	196.58	-0.0	-0.0	5.7	2	
17	415.00	-0.0	-0.0	-1.4	2	
17	0.00	-0.0	-0.0	-1.0	3	
17	196.58	-0.0	-0.0	4.0	3	
17	415.00	-0.0	-0.0	-1.0	3	
17	0.00	-0.0	-0.0	-0.5	4	
17	196.58	-0.0	-0.0	1.9	4	
17	415.00	-0.0	-0.0	-0.5	4	
17	0.00	-0.0	-0.0	-0.4	5	
17	196.58	-0.0	-0.0	1.5	5	
17	415.00	-0.0	-0.0	-0.4	5	
17	0.00	-0.0	-0.0	-5.9		1
17	196.58	-0.0	-0.0	23.7		1
17	415.00	-0.0	-0.0	-5.9		1
17	0.00	-0.0	-0.0	-6.1		2
17	196.58	-0.0	-0.0	24.6		2
17	415.00	-0.0	-0.0	-6.1		2
17	0.00	-0.0	-0.0	-4.8		3
17	196.58	-0.0	-0.0	19.1		3
17	415.00	-0.0	-0.0	-4.8		3
17	0.00	-0.0	-0.0	-4.9		4
17	196.58	-0.0	-0.0	19.8		4
17	415.00	-0.0	-0.0	-4.9		4
17	0.00	-0.0	-0.0	-4.3		5
17	196.58	-0.0	-0.0	17.3		5
17	415.00	-0.0	-0.0	-4.3		5
17	0.00	-0.0	-0.0	-4.5		6
17	196.58	-0.0	-0.0	17.9		6
17	415.00	-0.0	-0.0	-4.5		6
17	0.00	-0.0	-0.0	-3.9		7
17	196.58	-0.0	-0.0	15.8		7
17	415.00	-0.0	-0.0	-3.9		7
17	0.00	-0.0	-0.0	-3.8		8
17	196.58	-0.0	-0.0	15.4		8
17	415.00	-0.0	-0.0	-3.9		8
17	0.00	-0.0	-0.0	-3.8		9
17	196.58	-0.0	-0.0	15.4		9
17	415.00	-0.0	-0.0	-3.9		9
18	0.00	0.0	0.0	-0.2	1	
18	168.39	0.0	-0.0	2.7	1	
18	355.50	0.0	-0.0	-5.1	1	
18	0.00	-0.0	0.0	-1.9	2	
18	168.39	-0.0	-0.0	10.1	2	
18	355.50	-0.0	-0.0	-13.4	2	
18	0.00	-0.0	0.0	-1.5	3	
18	168.39	-0.0	-0.0	8.0	3	
18	355.50	-0.0	-0.0	-10.4	3	
18	0.00	-0.0	0.0	-0.7	4	
18	168.39	-0.0	-0.0	3.8	4	
18	355.50	-0.0	-0.0	-5.0	4	
18	0.00	-0.0	0.0	-0.6	5	
18	168.39	-0.0	-0.0	3.1	5	
18	355.50	-0.0	-0.0	-4.0	5	
18	0.00	-0.0	0.0	-6.2		1
18	168.39	-0.0	-0.0	34.4		1
18	355.50	-0.0	-0.0	-47.2		1
18	0.00	-0.0	0.0	-6.5		2
18	168.39	-0.0	-0.0	36.1		2
18	355.50	-0.0	-0.0	-49.4		2
18	0.00	-0.0	0.0	-5.1		3
18	168.39	-0.0	-0.0	28.2		3
18	355.50	-0.0	-0.0	-38.6		3
18	0.00	-0.0	0.0	-5.4		4
18	168.39	-0.0	-0.0	29.6		4
18	355.50	-0.0	-0.0	-40.5		4
18	0.00	-0.0	0.0	-4.4		5
18	168.39	-0.0	-0.0	24.6		5
18	355.50	-0.0	-0.0	-33.9		5
18	0.00	-0.0	0.0	-4.6		6
18	168.39	-0.0	-0.0	25.8		6
18	355.50	-0.0	-0.0	-35.4		6
18	0.00	-0.0	0.0	-3.8		7
18	168.39	-0.0	-0.0	21.5		7
18	355.50	-0.0	-0.0	-29.9		7

18	0.00	-0.0	0.0	-3.7		8
18	168.39	-0.0	-0.0	20.8		8
18	355.50	-0.0	-0.0	-28.9		8
18	0.00	-0.0	0.0	-3.7		9
18	168.39	-0.0	-0.0	20.8		9
18	355.50	-0.0	-0.0	-28.9		9
19	0.00	0.0	-0.0	-4.9	1	
19	133.82	0.0	-0.0	0.8	1	
19	282.50	0.0	0.0	0.0	1	
19	0.00	-0.0	-0.0	-12.6	2	
19	133.82	-0.0	-0.0	3.9	2	
19	282.50	-0.0	0.0	-1.0	2	
19	0.00	-0.0	-0.0	-9.9	3	
19	133.82	-0.0	-0.0	3.1	3	
19	282.50	-0.0	0.0	-0.8	3	
19	0.00	-0.0	-0.0	-4.8	4	
19	133.82	-0.0	-0.0	1.5	4	
19	282.50	-0.0	0.0	-0.4	4	
19	0.00	-0.0	-0.0	-3.8	5	
19	133.82	-0.0	-0.0	1.2	5	
19	282.50	-0.0	0.0	-0.3	5	
19	0.00	-0.0	-0.0	-44.8		1
19	133.82	-0.0	-0.0	12.8		1
19	282.50	-0.0	0.0	-3.1		1
19	0.00	-0.0	-0.0	-46.9		2
19	133.82	-0.0	-0.0	13.5		2
19	282.50	-0.0	0.0	-3.3		2
19	0.00	-0.0	-0.0	-36.6		3
19	133.82	-0.0	-0.0	10.5		3
19	282.50	-0.0	0.0	-2.6		3
19	0.00	-0.0	-0.0	-38.4		4
19	133.82	-0.0	-0.0	11.1		4
19	282.50	-0.0	0.0	-2.7		4
19	0.00	-0.0	-0.0	-32.2		5
19	133.82	-0.0	-0.0	9.2		5
19	282.50	-0.0	0.0	-2.2		5
19	0.00	-0.0	-0.0	-33.6		6
19	133.82	-0.0	-0.0	9.6		6
19	282.50	-0.0	0.0	-2.3		6
19	0.00	-0.0	-0.0	-28.4		7
19	133.82	-0.0	-0.0	8.0		7
19	282.50	-0.0	0.0	-1.9		7
19	0.00	-0.0	-0.0	-27.4		8
19	133.82	-0.0	-0.0	7.7		8
19	282.50	-0.0	0.0	-1.8		8
19	0.00	-0.0	-0.0	-27.4		9
19	133.82	-0.0	-0.0	7.7		9
19	282.50	-0.0	0.0	-1.8		9

=====

RISULTATI : TENSIONI PILASTRI PER N.RO DI ELEMENTO

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ELEM. n.ro	ascissa (cm)	N/A =====	M2/W2 (Kg/cm2)	M3/W3 =====	CDC n.ro	COMB. n.ro
8	0.00	-2.4	0.6	1.0	1	
8	168.16	-2.0	0.6	-1.2	1	
8	355.00	-1.5	0.7	-3.8	1	
8	0.00	-3.2	-2.4	0.7	2	
8	168.16	-3.2	1.7	-1.4	2	
8	355.00	-3.2	6.2	-3.7	2	
8	0.00	-2.4	-2.0	0.4	3	
8	168.16	-2.4	1.3	-1.0	3	
8	355.00	-2.4	5.0	-2.5	3	
8	0.00	-1.2	-1.0	0.2	4	
8	168.16	-1.2	0.6	-0.5	4	
8	355.00	-1.2	2.4	-1.2	4	
8	0.00	-0.9	-0.8	0.2	5	
8	168.16	-0.9	0.5	-0.4	5	
8	355.00	-0.9	1.9	-1.0	5	
8	0.00	-12.6	-6.8	3.1		1
8	168.16	-12.1	5.9	-5.6		1
8	355.00	-11.4	20.1	-15.3		1
8	0.00	-13.1	-7.3	3.2		2
8	168.16	-12.6	6.2	-5.8		2
8	355.00	-12.0	21.1	-15.8		2

8	0.00	-10.2	-5.7	2.5		3
8	168.16	-9.8	4.8	-4.5		3
8	355.00	-9.3	16.5	-12.3		3
8	0.00	-10.7	-6.1	2.6		4
8	168.16	-10.2	5.1	-4.7		4
8	355.00	-9.8	17.4	-12.8		4
8	0.00	-9.1	-4.8	2.3		5
8	168.16	-8.7	4.2	-4.1		5
8	355.00	-8.3	14.3	-11.2		5
8	0.00	-9.5	-5.1	2.4		6
8	168.16	-9.1	4.4	-4.2		6
8	355.00	-8.6	15.0	-11.5		6
8	0.00	-8.2	-4.0	2.2		7
8	168.16	-7.8	3.7	-3.7		7
8	355.00	-7.3	12.4	-10.2		7
8	0.00	-8.0	-3.8	2.1		8
8	168.16	-7.6	3.6	-3.6		8
8	355.00	-7.1	11.9	-10.0		8
8	0.00	-8.0	-3.8	2.1		9
8	168.16	-7.6	3.6	-3.6		9
8	355.00	-7.1	11.9	-10.0		9
9	0.00	-2.7	0.3	-0.5	1	
9	168.16	-2.3	-0.1	-1.1	1	
9	355.00	-1.9	-0.6	-1.8	1	
9	0.00	-5.8	1.3	-0.9	2	
9	168.16	-5.8	-0.4	-1.3	2	
9	355.00	-5.8	-2.3	-1.7	2	
9	0.00	-4.5	1.0	-0.8	3	
9	168.16	-4.5	-0.3	-1.0	3	
9	355.00	-4.5	-1.8	-1.2	3	
9	0.00	-2.2	0.5	-0.4	4	
9	168.16	-2.2	-0.2	-0.5	4	
9	355.00	-2.2	-0.9	-0.6	4	
9	0.00	-1.7	0.4	-0.3	5	
9	168.16	-1.7	-0.1	-0.4	5	
9	355.00	-1.7	-0.7	-0.5	5	
9	0.00	-21.1	4.2	-3.6		1
9	168.16	-20.6	-1.5	-5.3		1
9	355.00	-19.9	-7.8	-7.3		1
9	0.00	-22.1	4.5	-3.8		2
9	168.16	-21.5	-1.6	-5.5		2
9	355.00	-20.9	-8.2	-7.5		2
9	0.00	-17.2	3.5	-2.9		3
9	168.16	-16.8	-1.2	-4.3		3
9	355.00	-16.3	-6.4	-5.9		3
9	0.00	-18.1	3.7	-3.1		4
9	168.16	-17.6	-1.3	-4.5		4
9	355.00	-17.2	-6.8	-6.1		4
9	0.00	-15.2	3.0	-2.6		5
9	168.16	-14.8	-1.1	-3.9		5
9	355.00	-14.3	-5.6	-5.3		5
9	0.00	-15.8	3.2	-2.7		6
9	168.16	-15.4	-1.1	-4.0		6
9	355.00	-15.0	-5.9	-5.5		6
9	0.00	-13.5	2.6	-2.3		7
9	168.16	-13.0	-0.9	-3.5		7
9	355.00	-12.6	-4.9	-4.9		7
9	0.00	-13.0	2.5	-2.2		8
9	168.16	-12.6	-0.9	-3.4		8
9	355.00	-12.1	-4.7	-4.8		8
9	0.00	-13.0	2.5	-2.2		9
9	168.16	-12.6	-0.9	-3.4		9
9	355.00	-12.1	-4.7	-4.8		9
10	0.00	-2.2	-0.6	1.0	1	
10	168.16	-1.8	-0.3	-1.2	1	
10	355.00	-1.3	0.1	-3.7	1	
10	0.00	-2.5	1.8	0.7	2	
10	168.16	-2.5	-0.6	-1.3	2	
10	355.00	-2.5	-3.3	-3.6	2	
10	0.00	-1.9	1.5	0.4	3	
10	168.16	-1.9	-0.5	-1.0	3	
10	355.00	-1.9	-2.7	-2.5	3	
10	0.00	-0.9	0.7	0.2	4	
10	168.16	-0.9	-0.2	-0.5	4	
10	355.00	-0.9	-1.3	-1.2	4	

10	0.00	-0.7	0.6	0.2	5	
10	168.16	-0.7	-0.2	-0.4	5	
10	355.00	-0.7	-1.0	-1.0	5	
10	0.00	-10.3	4.9	3.3		1
10	168.16	-9.7	-2.2	-5.5		1
10	355.00	-9.1	-10.0	-15.2		1
10	0.00	-10.7	5.2	3.4		2
10	168.16	-10.1	-2.3	-5.7		2
10	355.00	-9.5	-10.6	-15.7		2
10	0.00	-8.3	4.1	2.6		3
10	168.16	-7.9	-1.8	-4.4		3
10	355.00	-7.4	-8.3	-12.2		3
10	0.00	-8.7	4.3	2.7		4
10	168.16	-8.2	-1.9	-4.6		4
10	355.00	-7.8	-8.8	-12.7		4
10	0.00	-7.5	3.4	2.4		5
10	168.16	-7.1	-1.6	-4.0		5
10	355.00	-6.6	-7.1	-11.1		5
10	0.00	-7.8	3.6	2.5		6
10	168.16	-7.3	-1.6	-4.1		6
10	355.00	-6.9	-7.5	-11.5		6
10	0.00	-6.8	2.8	2.2		7
10	168.16	-6.3	-1.4	-3.6		7
10	355.00	-5.9	-6.1	-10.1		7
10	0.00	-6.6	2.7	2.2		8
10	168.16	-6.2	-1.3	-3.5		8
10	355.00	-5.7	-5.8	-9.9		8
10	0.00	-6.6	2.7	2.2		9
10	168.16	-6.2	-1.3	-3.5		9
10	355.00	-5.7	-5.8	-9.9		9
11	0.00	-2.2	-0.6	-1.0	1	
11	168.16	-1.8	-0.3	1.2	1	
11	355.00	-1.3	0.1	3.7	1	
11	0.00	-2.5	1.8	-0.7	2	
11	168.16	-2.5	-0.6	1.3	2	
11	355.00	-2.5	-3.3	3.6	2	
11	0.00	-1.9	1.5	-0.4	3	
11	168.16	-1.9	-0.5	1.0	3	
11	355.00	-1.9	-2.6	2.5	3	
11	0.00	-0.9	0.7	-0.2	4	
11	168.16	-0.9	-0.2	0.5	4	
11	355.00	-0.9	-1.3	1.2	4	
11	0.00	-0.7	0.6	-0.2	5	
11	168.16	-0.7	-0.2	0.4	5	
11	355.00	-0.7	-1.0	1.0	5	
11	0.00	-10.3	4.8	-3.2		1
11	168.16	-9.7	-2.2	5.5		1
11	355.00	-9.1	-10.0	15.1		1
11	0.00	-10.7	5.2	-3.3		2
11	168.16	-10.1	-2.3	5.7		2
11	355.00	-9.5	-10.5	15.7		2
11	0.00	-8.3	4.0	-2.5		3
11	168.16	-7.9	-1.8	4.4		3
11	355.00	-7.4	-8.2	12.2		3
11	0.00	-8.7	4.3	-2.6		4
11	168.16	-8.2	-1.9	4.6		4
11	355.00	-7.8	-8.7	12.6		4
11	0.00	-7.5	3.4	-2.4		5
11	168.16	-7.1	-1.6	4.0		5
11	355.00	-6.6	-7.1	11.1		5
11	0.00	-7.8	3.6	-2.4		6
11	168.16	-7.3	-1.6	4.1		6
11	355.00	-6.9	-7.4	11.4		6
11	0.00	-6.8	2.8	-2.2		7
11	168.16	-6.3	-1.4	3.6		7
11	355.00	-5.9	-6.0	10.1		7
11	0.00	-6.6	2.7	-2.2		8
11	168.16	-6.2	-1.3	3.5		8
11	355.00	-5.7	-5.8	9.8		8
11	0.00	-6.6	2.7	-2.2		9
11	168.16	-6.2	-1.3	3.5		9
11	355.00	-5.7	-5.8	9.8		9
12	0.00	-2.7	0.3	0.5	1	
12	168.16	-2.3	-0.1	1.1	1	
12	355.00	-1.9	-0.6	1.9	1	

12	0.00	-5.8	1.3	0.9	2	
12	168.16	-5.8	-0.4	1.3	2	
12	355.00	-5.8	-2.3	1.8	2	
12	0.00	-4.5	1.0	0.8	3	
12	168.16	-4.5	-0.3	1.0	3	
12	355.00	-4.5	-1.8	1.2	3	
12	0.00	-2.2	0.5	0.4	4	
12	168.16	-2.2	-0.2	0.5	4	
12	355.00	-2.2	-0.9	0.6	4	
12	0.00	-1.7	0.4	0.3	5	
12	168.16	-1.7	-0.1	0.4	5	
12	355.00	-1.7	-0.7	0.5	5	
12	0.00	-21.1	4.2	3.4		1
12	168.16	-20.6	-1.5	5.3		1
12	355.00	-20.0	-7.8	7.3		1
12	0.00	-22.1	4.5	3.6		2
12	168.16	-21.5	-1.5	5.5		2
12	355.00	-20.9	-8.2	7.6		2
12	0.00	-17.2	3.5	2.8		3
12	168.16	-16.8	-1.2	4.3		3
12	355.00	-16.3	-6.4	5.9		3
12	0.00	-18.1	3.7	2.9		4
12	168.16	-17.6	-1.3	4.4		4
12	355.00	-17.2	-6.8	6.1		4
12	0.00	-15.2	3.0	2.4		5
12	168.16	-14.8	-1.1	3.8		5
12	355.00	-14.3	-5.6	5.4		5
12	0.00	-15.9	3.2	2.6		6
12	168.16	-15.4	-1.1	4.0		6
12	355.00	-15.0	-5.9	5.5		6
12	0.00	-13.5	2.6	2.2		7
12	168.16	-13.0	-0.9	3.5		7
12	355.00	-12.6	-4.9	4.9		7
12	0.00	-13.0	2.6	2.1		8
12	168.16	-12.6	-0.9	3.4		8
12	355.00	-12.1	-4.7	4.8		8
12	0.00	-13.0	2.6	2.1		9
12	168.16	-12.6	-0.9	3.4		9
12	355.00	-12.1	-4.7	4.8		9
13	0.00	-2.4	0.6	-1.0	1	
13	168.16	-2.0	0.6	1.2	1	
13	355.00	-1.5	0.7	3.8	1	
13	0.00	-3.1	-2.4	-0.7	2	
13	168.16	-3.1	1.7	1.4	2	
13	355.00	-3.1	6.2	3.6	2	
13	0.00	-2.4	-2.0	-0.4	3	
13	168.16	-2.4	1.3	1.0	3	
13	355.00	-2.4	5.0	2.5	3	
13	0.00	-1.2	-1.0	-0.2	4	
13	168.16	-1.2	0.6	0.5	4	
13	355.00	-1.2	2.4	1.2	4	
13	0.00	-0.9	-0.8	-0.1	5	
13	168.16	-0.9	0.5	0.4	5	
13	355.00	-0.9	1.9	1.0	5	
13	0.00	-12.6	-6.8	-3.1		1
13	168.16	-12.1	5.9	5.6		1
13	355.00	-11.4	20.1	15.2		1
13	0.00	-13.1	-7.3	-3.2		2
13	168.16	-12.6	6.2	5.8		2
13	355.00	-12.0	21.1	15.8		2
13	0.00	-10.2	-5.7	-2.5		3
13	168.16	-9.8	4.8	4.5		3
13	355.00	-9.3	16.5	12.3		3
13	0.00	-10.7	-6.1	-2.5		4
13	168.16	-10.2	5.1	4.7		4
13	355.00	-9.8	17.4	12.7		4
13	0.00	-9.1	-4.8	-2.3		5
13	168.16	-8.7	4.2	4.1		5
13	355.00	-8.3	14.3	11.2		5
13	0.00	-9.5	-5.1	-2.3		6
13	168.16	-9.1	4.4	4.2		6
13	355.00	-8.6	15.0	11.5		6
13	0.00	-8.2	-4.0	-2.1		7
13	168.16	-7.8	3.7	3.7		7
13	355.00	-7.3	12.4	10.2		7

ELEM.	ascissa	N	V2	V3	T	M2	M3	CDC
COMB.								
n.ro	(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)	n.ro
12	0.00	-1714.5	-10.2	-6.4	0.0	7.1	12.0	1
12	3.55	-1159.9	-10.2	-6.4	0.0	-15.6	48.3	1

12	0.00	-3598.3	-6.5	-26.3	0.0	33.1	22.5	2	
12	3.55	-3598.3	-6.5	-26.3	0.0	-60.2	45.6	2	
12	0.00	-2825.6	-3.1	-20.8	0.0	26.2	19.6	3	
12	3.55	-2825.6	-3.1	-20.8	0.0	-47.5	30.8	3	
12	0.00	-1363.5	-1.6	-10.0	0.0	12.6	9.4	4	
12	3.55	-1363.5	-1.6	-10.0	0.0	-22.9	15.0	4	
12	0.00	-1086.8	-1.2	-8.0	0.0	10.1	7.6	5	
12	3.55	-1086.8	-1.2	-8.0	0.0	-18.3	11.8	5	
12	0.00	-13190.3	-28.8	-88.7	0.0	110.6	88.5		1
12	3.55	-12469.2	-28.8	-88.7	0.0	-204.1	190.9		1
12	0.00	-13797.9	-29.5	-93.1	0.0	116.2	92.8		2
12	3.55	-13076.8	-29.5	-93.1	0.0	-214.3	197.3		2
12	0.00	-10758.7	-22.9	-72.7	0.0	90.8	72.3		3
12	3.55	-10204.0	-22.9	-72.7	0.0	-167.3	153.5		3
12	0.00	-11285.2	-23.4	-76.6	0.0	95.6	76.0		4
12	3.55	-10730.5	-23.4	-76.6	0.0	-176.2	159.1		4
12	0.00	-9501.9	-21.5	-63.5	0.0	79.1	63.6		5
12	3.55	-8947.2	-21.5	-63.5	0.0	-146.2	139.8		5
12	0.00	-9907.0	-21.9	-66.4	0.0	82.9	66.4		6
12	3.55	-9352.3	-21.9	-66.4	0.0	-153.0	144.1		6
12	0.00	-8411.2	-20.2	-55.4	0.0	69.0	56.1		7
12	3.55	-7856.5	-20.2	-55.4	0.0	-127.8	127.7		7
12	0.00	-8138.5	-19.9	-53.4	0.0	66.5	54.2		8
12	3.55	-7583.8	-19.9	-53.4	0.0	-123.3	124.7		8
12	0.00	-8138.5	-19.9	-53.4	0.0	66.5	54.2		9
12	3.55	-7583.8	-19.9	-53.4	0.0	-123.3	124.7		9

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RISULTATI : SOLLECITAZIONI PILASTRATA 3

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ELEM.	ascissa	N	V2	V3	T	M2	M3	CDC
COMB.								
n.ro	(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)	n.ro n.ro
11	0.00	-1388.3	-34.8	5.4	0.0	-15.8	-26.4	1
11	3.55	-833.6	-34.8	5.4	0.0	3.2	97.3	1
11	0.00	-1551.6	-31.8	-37.1	0.0	46.7	-18.8	2
11	3.55	-1551.6	-31.8	-37.1	0.0	-85.1	94.2	2
11	0.00	-1171.1	-21.4	-30.3	0.0	38.6	-10.9	3
11	3.55	-1171.1	-21.4	-30.3	0.0	-68.8	64.9	3
11	0.00	-566.8	-10.4	-14.6	0.0	18.6	-5.4	4
11	3.55	-566.8	-10.4	-14.6	0.0	-33.1	31.7	4
11	0.00	-450.4	-8.2	-11.6	0.0	14.8	-4.2	5
11	3.55	-450.4	-8.2	-11.6	0.0	-26.5	25.0	5
11	0.00	-6428.7	-134.4	-108.5	0.0	125.9	-83.1	
11	3.55	-5707.6	-134.4	-108.5	0.0	-259.4	393.9	1
11	0.00	-6679.2	-138.9	-115.1	0.0	134.3	-85.4	2
11	3.55	-5958.1	-138.9	-115.1	0.0	-274.3	407.6	2
11	0.00	-5199.1	-108.0	-90.0	0.0	105.2	-66.3	3
11	3.55	-4644.4	-108.0	-90.0	0.0	-214.4	317.1	3
11	0.00	-5416.3	-111.9	-95.7	0.0	112.5	-68.3	4
11	3.55	-4861.6	-111.9	-95.7	0.0	-227.3	329.0	4
11	0.00	-4677.8	-98.5	-76.6	0.0	88.1	-61.4	5
11	3.55	-4123.1	-98.5	-76.6	0.0	-183.9	288.1	5
11	0.00	-4844.8	-101.5	-81.0	0.0	93.6	-62.9	6
11	3.55	-4290.1	-101.5	-81.0	0.0	-193.8	297.3	6
11	0.00	-4224.3	-90.1	-64.9	0.0	73.2	-57.1	7
11	3.55	-3669.6	-90.1	-64.9	0.0	-157.3	262.8	7
11	0.00	-4110.9	-88.0	-62.0	0.0	69.5	-56.0	8
11	3.55	-3556.3	-88.0	-62.0	0.0	-150.7	256.5	8
11	0.00	-4110.9	-88.0	-62.0	0.0	69.5	-56.0	9
11	3.55	-3556.3	-88.0	-62.0	0.0	-150.7	256.5	9

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RISULTATI : SOLLECITAZIONI PILASTRATA 4

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ELEM.	ascissa	N	V2	V3	T	M2	M3	CDC
COMB.								
n.ro	(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)	n.ro n.ro
8	0.00	-1522.4	35.5	0.7	0.0	15.2	27.3	1
8	3.55	-967.7	35.5	0.7	0.0	17.8	-98.8	1
8	0.00	-1969.1	31.9	63.6	0.0	-63.5	18.0	2
8	3.55	-1969.1	31.9	63.6	0.0	162.4	-95.1	2
8	0.00	-1499.0	21.3	51.2	0.0	-52.0	10.2	3

8	3.55	-1499.0	21.3	51.2	0.0	129.7	-65.5	3	
8	0.00	-725.1	10.4	24.7	0.0	-25.0	5.1	4	
8	3.55	-725.1	10.4	24.7	0.0	62.5	-31.9	4	
8	0.00	-576.5	8.2	19.7	0.0	-20.0	3.9	5	
8	3.55	-576.5	8.2	19.7	0.0	49.9	-25.2	5	
8	0.00	-7875.1	135.2	197.4	0.0	-178.2	81.9		1
8	3.55	-7154.0	135.2	197.4	0.0	522.6	-398.2		1
8	0.00	-8196.1	139.7	208.5	0.0	-189.5	84.0		2
8	3.55	-7475.0	139.7	208.5	0.0	550.6	-412.0		2
8	0.00	-6382.8	108.7	163.0	0.0	-148.4	65.2		3
8	3.55	-5828.1	108.7	163.0	0.0	430.1	-320.5		3
8	0.00	-6661.0	112.5	172.5	0.0	-158.1	67.0		4
8	3.55	-6106.4	112.5	172.5	0.0	454.4	-332.5		4
8	0.00	-5715.6	99.1	140.2	0.0	-125.3	60.6		5
8	3.55	-5160.9	99.1	140.2	0.0	372.4	-291.3		5
8	0.00	-5929.6	102.1	147.6	0.0	-132.8	62.0		6
8	3.55	-5374.9	102.1	147.6	0.0	391.1	-300.5		6
8	0.00	-5135.6	90.8	120.5	0.0	-105.3	56.6		7
8	3.55	-4580.9	90.8	120.5	0.0	322.4	-265.8		7
8	0.00	-4990.6	88.7	115.5	0.0	-100.3	55.5		8
8	3.55	-4435.9	88.7	115.5	0.0	309.9	-259.4		8
8	0.00	-4990.6	88.7	115.5	0.0	-100.3	55.5		9
8	3.55	-4435.9	88.7	115.5	0.0	309.9	-259.4		9

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RISULTATI : SOLLECITAZIONI PILASTRATA 5

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ELEM.	ascissa	N	V2	V3	T	M2	M3	CDC
COMB.								
n.ro	(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)	n.ro n.ro
9	0.00	-1715.6	10.0	-6.3	-0.0	7.0	-12.7	1
9	3.55	-1160.9	10.0	-6.3	-0.0	-15.4	-48.1	1
9	0.00	-3597.1	6.0	-26.3	0.0	33.2	-23.9	2
9	3.55	-3597.1	6.0	-26.3	0.0	-60.2	-45.3	2
9	0.00	-2824.7	2.7	-20.8	0.0	26.2	-20.8	3
9	3.55	-2824.7	2.7	-20.8	0.0	-47.5	-30.5	3
9	0.00	-1363.0	1.4	-10.0	0.0	12.7	-9.9	4
9	3.55	-1363.0	1.4	-10.0	0.0	-22.9	-14.9	4
9	0.00	-1086.4	1.1	-8.0	0.0	10.1	-8.0	5
9	3.55	-1086.4	1.1	-8.0	0.0	-18.3	-11.7	5
9	0.00	-13188.0	27.0	-88.6	0.0	110.5	-93.6	
9	3.55	-12466.9	27.0	-88.6	0.0	-204.1	-189.5	1
9	0.00	-13795.4	27.5	-93.1	0.0	116.1	-98.1	2
9	3.55	-13074.3	27.5	-93.1	0.0	-214.3	-195.9	2
9	0.00	-10756.7	21.4	-72.7	0.0	90.7	-76.5	3
9	3.55	-10202.0	21.4	-72.7	0.0	-167.3	-152.4	3
9	0.00	-11283.1	21.8	-76.5	0.0	95.6	-80.4	4
9	3.55	-10728.4	21.8	-76.5	0.0	-176.2	-158.0	4
9	0.00	-9500.4	20.1	-63.4	0.0	79.0	-67.3	5
9	3.55	-8945.7	20.1	-63.4	0.0	-146.2	-138.8	5
9	0.00	-9905.3	20.5	-66.4	0.0	82.8	-70.3	6
9	3.55	-9350.6	20.5	-66.4	0.0	-153.0	-143.1	6
9	0.00	-8410.0	19.0	-55.4	0.0	68.9	-59.3	7
9	3.55	-7855.3	19.0	-55.4	0.0	-127.8	-126.9	7
9	0.00	-8137.4	18.7	-53.4	0.0	66.3	-57.3	8
9	3.55	-7582.7	18.7	-53.4	0.0	-123.2	-123.9	8
9	0.00	-8137.4	18.7	-53.4	0.0	66.3	-57.3	9
9	3.55	-7582.7	18.7	-53.4	0.0	-123.2	-123.9	9

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RISULTATI : SOLLECITAZIONI PILASTRATA 6

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ELEM.	ascissa	N	V2	V3	T	M2	M3	CDC
COMB.								
n.ro	(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)	n.ro n.ro
10	0.00	-1387.6	34.9	5.6	-0.0	-16.3	26.6	1
10	3.55	-833.0	34.9	5.6	-0.0	3.6	-97.4	1
10	0.00	-1552.4	32.1	-37.3	-0.0	47.1	19.4	2
10	3.55	-1552.4	32.1	-37.3	-0.0	-85.5	-94.7	2
10	0.00	-1171.7	21.6	-30.4	-0.0	38.9	11.4	3
10	3.55	-1171.7	21.6	-30.4	-0.0	-69.1	-65.3	3
10	0.00	-567.1	10.5	-14.6	-0.0	18.7	5.6	4
10	3.55	-567.1	10.5	-14.6	-0.0	-33.3	-31.8	4

10	0.00	-450.7	8.3	-11.7	-0.0	15.0	4.4	5	
10	3.55	-450.7	8.3	-11.7	-0.0	-26.6	-25.1	5	
10	0.00	-6430.4	135.4	-108.9	-0.0	126.5	85.3		1
10	3.55	-5709.3	135.4	-108.9	-0.0	-260.0	-395.4		1
10	0.00	-6681.0	140.0	-115.4	-0.0	134.9	87.7		2
10	3.55	-5959.9	140.0	-115.4	-0.0	-274.9	-409.2		2
10	0.00	-5200.6	108.9	-90.3	-0.0	105.7	68.1		3
10	3.55	-4645.9	108.9	-90.3	-0.0	-215.0	-318.3		3
10	0.00	-5417.8	112.8	-96.0	-0.0	113.0	70.1		4
10	3.55	-4863.1	112.8	-96.0	-0.0	-227.9	-330.3		4
10	0.00	-4678.9	99.2	-76.8	-0.0	88.4	63.0		5
10	3.55	-4124.2	99.2	-76.8	-0.0	-184.3	-289.2		5
10	0.00	-4846.0	102.2	-81.2	-0.0	94.0	64.6		6
10	3.55	-4291.3	102.2	-81.2	-0.0	-194.2	-298.4		6
10	0.00	-4225.2	90.8	-65.1	-0.0	73.4	58.5		7
10	3.55	-3670.5	90.8	-65.1	-0.0	-157.6	-263.8		7
10	0.00	-4111.8	88.7	-62.2	-0.0	69.7	57.4		8
10	3.55	-3557.1	88.7	-62.2	-0.0	-151.0	-257.4		8
10	0.00	-4111.8	88.7	-62.2	-0.0	69.7	57.4		9
10	3.55	-3557.1	88.7	-62.2	-0.0	-151.0	-257.4		9

DESCRIZIONE TABELLE PRESSIONI SUL TERRENO

Di seguito si riportano le spiegazioni delle sigle usate nelle tabelle PRESSIONI SUL TERRENO.

Relativamente ad ogni caso di carico, vengono elencate, per ogni elemento strutturale (trave, platea, plinto), i valori delle pressioni di contatto terreno - struttura.

Le tabelle si differenziano in funzione del tipo di elemento cui si riferiscono (trave, platea, plinto):

TRAVI SU SUOLO ELASTICO

ELEM. numero dell' elemento
n.ro
x ascissa locale misurata dal nodo I al nodo J
Pressione valore della pressione di contatto (+ compressione)

PLATEE SU SUOLO ELASTICO

NODO numero del nodo della platea
n.ro
X coordinata X del nodo della platea
Y ' Y ' ' '
Z ' Z ' ' '
Pressione valore della pressione di contatto (+ compressione)

PLINTI SU SUOLO ELASTICO

PLINTO n.ro numero identificativo del plinto
NODO n.ro numero del nodo cui e' applicato il plinto
N sforzo normale agente sull'area d'impronta del plinto
 (compreso il peso proprio del plinto)
Mx momento agente intorno alla direzione x locale
My momento agente intorno alla direzione y locale
Press. 1 pressione di contatto nel p.to 1 (+ compressione)
Press. 2 pressione di contatto nel p.to 2 (+ compressione)
Press. 3 pressione di contatto nel p.to 3 (+ compressione)
Press. 4 pressione di contatto nel p.to 4 (+ compressione)

Per la simbologia eventualmente qui non descritta, si rimanda alla documentazione fornita con il programma.

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RISULTATI : CASO DI CARICO 1 : PRESSIONI TERRENO (TRAVI)

=====

ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.212
1	3.56	0.181
2	0.00	0.181
2	2.83	0.210
3	0.00	0.212
3	4.15	0.207

4	0.00	0.181
4	4.15	0.176
5	0.00	0.210
5	4.15	0.205
6	0.00	0.207
6	3.56	0.176
7	0.00	0.176
7	2.83	0.205

=====

RISULTATI : CASO DI CARICO 2 : PRESSIONI TERRENO (TRAVI)

=====

ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.100
1	3.56	0.099
2	0.00	0.099
2	2.83	0.091
3	0.00	0.100
3	4.15	0.099
4	0.00	0.099
4	4.15	0.099
5	0.00	0.091
5	4.15	0.091
6	0.00	0.099
6	3.56	0.099
7	0.00	0.099
7	2.83	0.091

=====

RISULTATI : CASO DI CARICO 3 : PRESSIONI TERRENO (TRAVI)

=====

ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.076
1	3.56	0.077
2	0.00	0.077
2	2.83	0.069
3	0.00	0.076
3	4.15	0.076
4	0.00	0.077
4	4.15	0.077
5	0.00	0.069
5	4.15	0.069
6	0.00	0.076
6	3.56	0.077
7	0.00	0.077
7	2.83	0.069

=====

RISULTATI : CASO DI CARICO 4 : PRESSIONI TERRENO (TRAVI)

=====

ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.037
1	3.56	0.037

2	0.00	0.037
2	2.83	0.033
3	0.00	0.037
3	4.15	0.037
4	0.00	0.037
4	4.15	0.037
5	0.00	0.033
5	4.15	0.033
6	0.00	0.037
6	3.56	0.037
7	0.00	0.037
7	2.83	0.033

=====

RISULTATI : CASO DI CARICO 5 : PRESSIONI TERRENO (TRAVI)

=====

ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.029
1	3.56	0.030
2	0.00	0.030
2	2.83	0.027
3	0.00	0.029
3	4.15	0.029
4	0.00	0.030
4	4.15	0.030
5	0.00	0.027
5	4.15	0.027
6	0.00	0.029
6	3.56	0.030
7	0.00	0.030
7	2.83	0.027

=====

RISULTATI : COMBINAZIONE 1 : PRESSIONI TERRENO (TRAVI)

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ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.574
1	3.56	0.536
2	0.00	0.536
2	2.83	0.545
3	0.00	0.574
3	4.15	0.567
4	0.00	0.536
4	4.15	0.529
5	0.00	0.545
5	4.15	0.538
6	0.00	0.567
6	3.56	0.529
7	0.00	0.529
7	2.83	0.538

=====

RISULTATI : COMBINAZIONE 2 : PRESSIONI TERRENO (TRAVI)

=====

ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.590
1	3.56	0.552
2	0.00	0.552
2	2.83	0.560
3	0.00	0.590
3	4.15	0.583
4	0.00	0.552
4	4.15	0.546
5	0.00	0.560
5	4.15	0.553
6	0.00	0.583
6	3.56	0.546
7	0.00	0.546
7	2.83	0.553

=====

RISULTATI : COMBINAZIONE 3 : PRESSIONI TERRENO (TRAVI)

=====

ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.458
1	3.56	0.429
2	0.00	0.429
2	2.83	0.434
3	0.00	0.458
3	4.15	0.452
4	0.00	0.429
4	4.15	0.424
5	0.00	0.434
5	4.15	0.429
6	0.00	0.452
6	3.56	0.424
7	0.00	0.424
7	2.83	0.429

=====

RISULTATI : COMBINAZIONE 4 : PRESSIONI TERRENO (TRAVI)

=====

ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.472
1	3.56	0.443
2	0.00	0.443
2	2.83	0.447
3	0.00	0.472
3	4.15	0.467
4	0.00	0.443
4	4.15	0.438
5	0.00	0.447
5	4.15	0.441
6	0.00	0.467
6	3.56	0.438

7	0.00	0.438
7	2.83	0.441

=====

RISULTATI : COMBINAZIONE 5 : PRESSIONI TERRENO (TRAVI)

=====

ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.424
1	3.56	0.394
2	0.00	0.394
2	2.83	0.404
3	0.00	0.424
3	4.15	0.419
4	0.00	0.394
4	4.15	0.390
5	0.00	0.404
5	4.15	0.398
6	0.00	0.419
6	3.56	0.390
7	0.00	0.390
7	2.83	0.398

=====

RISULTATI : COMBINAZIONE 6 : PRESSIONI TERRENO (TRAVI)

=====

ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.435
1	3.56	0.405
2	0.00	0.405
2	2.83	0.413
3	0.00	0.435
3	4.15	0.430
4	0.00	0.405
4	4.15	0.401
5	0.00	0.413
5	4.15	0.408
6	0.00	0.430
6	3.56	0.401
7	0.00	0.401
7	2.83	0.408

=====

RISULTATI : COMBINAZIONE 7 : PRESSIONI TERRENO (TRAVI)

=====

ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.395
1	3.56	0.365
2	0.00	0.365
2	2.83	0.377
3	0.00	0.395
3	4.15	0.389
4	0.00	0.365
4	4.15	0.360

5	0.00	0.377
5	4.15	0.371
6	0.00	0.389
6	3.56	0.360
7	0.00	0.360
7	2.83	0.371

=====

RISULTATI : COMBINAZIONE 8 : PRESSIONI TERRENO (TRAVI)

=====

ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.388
1	3.56	0.357
2	0.00	0.357
2	2.83	0.370
3	0.00	0.388
3	4.15	0.382
4	0.00	0.357
4	4.15	0.352
5	0.00	0.370
5	4.15	0.365
6	0.00	0.382
6	3.56	0.352
7	0.00	0.352
7	2.83	0.365

=====

RISULTATI : COMBINAZIONE 9 : PRESSIONI TERRENO (TRAVI)

=====

ELEM. n.ro	ascissa (m)	Pressione (Kg/cm2)
1	0.00	0.388
1	3.56	0.357
2	0.00	0.357
2	2.83	0.370
3	0.00	0.388
3	4.15	0.382
4	0.00	0.357
4	4.15	0.352
5	0.00	0.370
5	4.15	0.365
6	0.00	0.382
6	3.56	0.352
7	0.00	0.352
7	2.83	0.365

LEGENDA TABELLA VERIFICA TRAVI IN C.A. METODO S.L.

Di seguito si riportano le spiegazioni delle sigle usate nella tabella VERIFICA TRAVI IN C.A.

ELEM. n.ro	numero dell' elemento trave
x	ascissa locale misurata dal nodo I al nodo J
N	sforzo normale nel p.to x
V2	forza di taglio ' ' ' in direz. 2 locale
V3	forza di taglio ' ' ' ' ' 3 '
T	momento torcente ' ' '
M2	momento flettente ' ' ' intorno asse 2 loc.
M3	momento flettente ' ' ' ' ' 3 '
SEZIONE	dimensioni della sezione trasversale della trave (per rettangolari, circolari,
T, L,	
	per le altre tipologie si riporta solo il tipo: es. T 60/30x50, o sez.polig.
etc.	
C.sic.	Coeff.sicurezza = rapporto tra azioni ultime ed azioni di calcolo N,M
Vrdu2	taglio max. ammissibile per la verifica bielle di conglomerato
Vrdu3	taglio max. ammissibile per la verifica armatura trasversale d'anima
Trdu	mom. torcente max. ammissibile per verifica bielle di conglomerato
sc max	tensione max (in senso algebrico) nel cls (poiche' le tensioni di compressione
sono	negative, scmax e' = 0.)
sc min	tensione min (in senso algebrico) nel cls (in valore assoluto e'la massima
tensione	di compressione nel cls)
sf max	tensione max (in senso algebrico) nell'acciaio (e' la massima trazione
nell'acciaio	o la minima compressione, in valore assoluto)
sf min	tensione min (in senso algebrico) nell'acciaio (e' la minima trazione
nell'acciaio	o la massima compressione, in valore assoluto)
cod	risultato della verifica (verificata o non verificata)
caso	n.ro caso di carico
comb	n.ro combinazione
Af intr	area armatura longitudinale all'intradosso
Af estr	area armatura longitudinale all'estradosso
Ast/tag	area complessiva staffe per taglio-torsione V2,T (se gli effetti di T sono
trascurati	questa area riguarda le staffe per il solo taglio V2)
(Ast/tag	area complessiva staffe per taglio-torsione V3,T)
Al/tors	area armatura longitudinale per la torsione
N.B.	l'area di armatura longitudinale in zona tesa, e' >= valore minimo:
As=	(Kc*K*fct*Act) / (0,9*fyk) (Eurocodice EC2 p.to 4.4.2.2, aree min.armatura
per	il controllo della fessurazione;si rimanda alla norma per il significato dei
simboli	Inoltre, per limitare l'ampiezza delle fessure a valori <= 0,3 mm, occorre che
il	diametro delle barre e la loro spaziatura, siano limitati come indicato
nella	sezione relativa alle verifiche SLE, combinazione Quasi Permanente
n.ro	numero del tratto di staffatura
L	lunghezza del tratto di staffatura
D (mm)	diametro in mm. delle staffe
passo	passo delle staffe
nbr	numero dei bracci
Astaffe	area complessiva delle staffe nel tratto
Apiegati	area complessiva dei ferri piegati nel tratto
Epssc x 1000.	deformazione a rottura lato cls x 1000.
Epss x 1000.	deformazione a rottura lato acciaio x 1000.

RISULTATI : VERIFICA TRAVATA 1 A QUOTA Z= 0.00

Calcestruzzo
Rck (Kg/cm2) : 300
gamma : 1.50
fck (Kg/cm2) : 249
fcd (Kg/cm2) : 141
fcm (Kg/cm2) : 331
fctm (Kg/cm2) : 26
fctk (Kg/cm2) : 18
fctd (Kg/cm2) : 12
fctm (Kg/cm2) : 31
Ecm (Kg/cm2) : 319172

Acciaio in barre
fyk (Kg/cm2) : 4500.0
gamma : 1.15
fyd (Kg/cm2) : 3913.0
Es (Kg/cm2) : 2140673

Copriferro (cm): 3.00

==== SOLLECITAZIONI DI PROGETTO S.L.U. (i=filo iniziale, m-ascissa max M3 , f=filo finale) ====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
1	0.00 i	0	2849	-0	272	0	-2850	0	4518	16	386	32	2648
	0.94 m	0	890	-0	272	0	-3499	0	2153	16	386	17	564
	3.56 f	0	-5330	-0	272	-0	-688	0	4965	16	386	25	3944
2	0.00 i	0	3740	0	-471	-0	407	0	4807	23	522	29	3094
	2.23 m	0	-961	0	-471	0	-3010	0	2048	23	522	23	1561
	2.83 f	0	-2524	0	-471	0	-2688	0	3519	23	522	37	2549

==== VERIFICA S.L.U. / ARMATURE LONGITUDINALI E TRASVERSALI ====

ELEM.	SEZIONE	x m	CSic. (N+M)	Vrdu2 Kg	Vrdu3 Kg	Trdu Kgm	AST/tag (cm2/m)	AL/tors (cm2)	AF intr (cm2)	AF estr (cm2)	VERIFICA ELEMENTO	Epsc (x 1000.)	Epss
1	T rovescio	0.00 i	5.74	47292.8	28967.2	0.0	4.5	0.0	5.9	5.9	v	0.4	10.0
		0.94 m	4.67	47292.8	28967.2	0.0	4.5	0.0	5.9	5.9	v	0.4	10.0
		3.56 f	4.08	47292.8	28967.2	0.0	4.5	0.0	5.9	5.9	v	0.8	10.0
2	T rovescio	0.00 i	5.19	47292.8	28967.2	0.0	4.5	0.0	5.9	4.5	v	0.9	10.0
		2.23 m	5.43	47292.8	28967.2	0.0	4.5	0.0	5.9	5.9	v	0.4	10.0
		2.83 f	6.09	47292.8	28967.2	0.0	4.5	0.0	5.9	5.9	v	0.4	10.0

==== STAFFE / PIEGATI ====

ELEM.	SEZIONE	Tratto n.ro staffatura	L (m)	D (mm)	Passo (cm)	nbr
1	T rovescio	1	0.9	8	22	2
		2	1.8	8	22	2
		3	0.9	8	22	2

2 T rovescio 1 0.9 8 22 2
2 1.1 8 22 2
3 0.9 8 22 2

RISULTATI : VERIFICA TRAVATA 2 A QUOTA Z= 0.00

Calcestruzzo
Rck (Kg/cm2) : 300
gammac : 1.50
fck (Kg/cm2) : 249
fcd (Kg/cm2) : 141
fcm (Kg/cm2) : 331
fctm (Kg/cm2) : 26
fctk (Kg/cm2) : 18
fctd (Kg/cm2) : 12
fcfm (Kg/cm2) : 31
Ecm (Kg/cm2) : 319172

Copriferro (cm) : 3.00

===== SOLLECITAZIONI DI PROGETTO S.L.U. (i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
6	0.00 i	0	2859	0	-302	-0	-2860	0	4529	16	322	33	2661
	0.94 m	0	890	0	-302	-0	-3513	0	2155	16	322	18	566
	3.56 f	0	-5374	0	-302	0	-667	0	5007	16	322	25	3978
7	0.00 i	0	3777	-0	316	0	447	0	4851	24	440	29	3139
	2.23 m	0	-959	-0	316	-0	-3020	0	2045	24	440	24	1564
	2.83 f	0	-2529	-0	316	-0	-2699	0	3525	24	440	38	2559

===== VERIFICA S.L.U. / ARMATURE LONGITUDINALI E TRASVERSALI =====

ELEM.	SEZIONE	x m	CSic. (N+M)	Vrdu2 Kg	Vrdu3 Kg	Trdu Kg	AST/tag (cm2/m)	AL/tors (cm2)	AF intr (cm2)	AF estr (cm2)	VERIFICA ELEMENTO	Epsc (x 1000.)
6		0.00 i	5.43	47292.8	28967.2	0.0	4.5	0.0	5.6	5.6	V	0.4 10.0
		0.94 m	4.42	47292.8	28967.2	0.0	4.5	0.0	5.6	5.6	V	0.4 10.0
		3.56 f	3.73	47292.8	28967.2	0.0	4.5	0.0	5.6	5.6	V	1.3 10.0
7		0.00 i	4.71	47292.8	28967.2	0.0	4.5	0.0	5.6	4.5	V	1.5 10.0
		2.23 m	5.14	47292.8	28967.2	0.0	4.5	0.0	5.6	5.6	V	0.4 10.0
		2.83 f	5.76	47292.8	28967.2	0.0	4.5	0.0	5.6	5.6	V	0.4 10.0

===== STAFFE / PIEGATI =====

ELEM. SEZIONE Tratto n.ro staffatura L (m) D (mm) Passo (cm) nbr

6	1	0.9	8	22	2
	2	1.8	8	22	2
	3	0.9	8	22	2
7	1	0.9	8	22	2
	2	1.1	8	22	2
	3	0.9	8	22	2

=====

RISULTATI : VERIFICA TRAVATA 3 A QUOTA Z= 0.00

=====

Calcestruzzo

Rck (Kg/cm2) : 300

gamma_c : 1.50

f_{ck} (Kg/cm2) : 249

f_{cd} (Kg/cm2) : 141

f_{cm} (Kg/cm2) : 331

f_{ctm} (Kg/cm2) : 26

f_{ctk} (Kg/cm2) : 18

f_{ctd} (Kg/cm2) : 12

f_{cfm} (Kg/cm2) : 31

E_{cm} (Kg/cm2) : 319172

Acciaio in barre

f_{yk} (Kg/cm2) : 4500.0

gamma_s : 1.15

f_{yd} (Kg/cm2) : 3913.0

E_s (Kg/cm2) : 2140673

Copriferro (cm) : 3.00

===== SOLLECITAZIONI DI PROGETTO S.L.U. (i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
3	0.00 i	0	3533	0	-1	0	-3430	0	4536	16	456	33	2894
	1.97 m	0	139	0	-1	0	-4712	0	1989	16	456	2	-1552
	4.15 f	0	-4524	0	-1	0	-3399	0	4422	16	456	32	2920

===== VERIFICA S.L.U. / ARMATURE LONGITUDINALI E TRASVERSALI =====

ELEM.	SEZIONE	x m	CSic. (N+M)	Vrdu2 Kg	Vrdu3 Kg	Trdu Kgm	AST/tag (cm2/m)	AL/tors (cm2)	AF intr (cm2)	AF estr (cm2)	VERIFICA ELEMENTO	Epsc (x 1000.)	Epss
3	T rovescio	0.00 i	4.77	47292.8	28967.2	0.0	4.5	0.0	5.9	5.9	V	0.4	10.0
		1.97 m	3.47	47292.8	28967.2	0.0	4.5	0.0	4.5	5.9	V	0.4	10.0
		4.15 f	4.81	47292.8	28967.2	0.0	4.5	0.0	5.9	5.9	V	0.4	10.0

===== STAFFE / PIEGATI =====

ELEM.	SEZIONE	Tratto n.ro staffatura	L (m)	D (mm)	Passo (cm)	nbr
3	T rovescio	1	0.9	8	22	2
		2	2.4	8	22	2
		3	0.9	8	22	2

=====

RISULTATI : VERIFICA TRAVATA 4 A QUOTA Z= 0.00

=====

Calcestruzzo

Rck (Kg/cm2) : 300

gamma_c : 1.50

f_{ck} (Kg/cm2) : 249

f_{cd} (Kg/cm2) : 141

f_{cm} (Kg/cm2) : 331

f_{ctm} (Kg/cm2) : 26

f_{ctk} (Kg/cm2) : 18

f_{ctd} (Kg/cm2) : 12

f_{cfm} (Kg/cm2) : 31

E_{cm} (Kg/cm2) : 319172

Copriferro (cm): 3.00

Acciaio in barre

f_{yk} (Kg/cm2) : 4500.0

gamma_s : 1.15

f_{yd} (Kg/cm2) : 3913.0

E_s (Kg/cm2) : 2140673

===== SOLLECITAZIONI DI PROGETTO S.L.U. (i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
4	0.00 i	0	2508	0	0	-0	-1392	0	3661	6	73	13	2499
	2.18 m	0	-100	0	0	-0	-2176	0	1010	6	73	0	-1214
	4.15 f	0	-3571	0	0	0	-1470	0	2946	6	73	12	2444

===== VERIFICA S.L.U. / ARMATURE LONGITUDINALI E TRASVERSALI =====

ELEM.	SEZIONE	x m	CSic. (N+M)	Vrdu2 Kg	Vrdu3 Kg	Trdu Kg	AST/tag (cm2/m)	AL/tors (cm2)	AF intr (cm2)	AF estr (cm2)	VERIFICA ELEMENTO	Ep _{sc} (x 1000.)	Ep _{ss}
4	70x40	0.00 i	3.16	56707.6	36387.8	0.0	10.5	0.0	5.6	5.6	v	0.8	10.0
		2.18 m	3.62	56707.6	36387.8	0.0	10.5	0.0	5.6	5.6	v	0.8	10.0
		4.15 f	3.23	56707.6	36387.8	0.0	10.5	0.0	5.6	5.6	v	0.8	10.0

===== STAFFE / PIEGATI =====

ELEM.	SEZIONE	Tratto n.ro staffatura	L (m)	D (mm)	Passo (cm)	nbr
4	70x40	1	0.5	8	9	2
		2	3.1	8	9	2
		3	0.5	8	9	2

=====

RISULTATI : VERIFICA TRAVATA 5 A QUOTA Z= 0.00

=====

Calcestruzzo

Rck (Kg/cm2) : 300

gamma_c : 1.50

f_{ck} (Kg/cm2) : 249

Acciaio in barre

f_{yk} (Kg/cm2) : 4500.0

gamma_s : 1.15

f_{yd} (Kg/cm2) : 3913.0

Es (Kg/cm2) : 2140673

fed (Kg/cm2) : 141
fcm (Kg/cm2) : 331
fctm (Kg/cm2) : 26
fctk (Kg/cm2) : 18
fctd (Kg/cm2) : 12
fcfm (Kg/cm2) : 31
Ecm (Kg/cm2) : 319172

Copriferro (cm): 3.00

===== SOLLECITAZIONI DI PROGETTO S.L.U. (i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
5	0.00 i	0	3236	0	-1	-0	-2953	0	4353	14	459	29	2269
	1.97 m	0	122	0	-1	-0	-4458	0	1702	14	459	2	-1253
	4.15 f	0	-4152	0	-1	-0	-2903	0	4346	14	459	28	2296

===== VERIFICA S.L.U. / ARMATURE LONGITUDINALI E TRASVERSALI =====

ELEM.	SEZIONE	x m	CSic. (N+M)	Vrdu2 Kg	Vrdu3 Kg	Trdu Kgm	AST/tag (cm2/m)	AL/tors (cm2)	AF intr (cm2)	AF estr (cm2)	VERIFICA ELEMENTO	Epsc (x 1000.)
5	T rovescio	0.00 i	5.54	47292.8	28967.2	0.0	4.5	0.0	5.9	5.9	V	0.4 10.0
		1.97 m	3.66	47292.8	28967.2	0.0	4.5	0.0	4.5	5.9	V	0.4 10.0
		4.15 f	5.64	47292.8	28967.2	0.0	4.5	0.0	5.9	5.9	V	0.4 10.0

===== STAFFE / PIEGATI =====

ELEM.	SEZIONE	Tratto n.ro staffatura	L (m)	D (mm)	Passo (cm)	nbr
5	T rovescio	1	0.9	8	22	2
		2	2.4	8	22	2
		3	0.9	8	22	2

===== RISULTATI : VERIFICA TRAVATA 6 A QUOTA Z= 355.00 =====

Calcestruzzo
Rck (Kg/cm2) : 300
gamnac : 1.50
fck (Kg/cm2) : 249
fed (Kg/cm2) : 141
fcm (Kg/cm2) : 331
fctm (Kg/cm2) : 26
fctk (Kg/cm2) : 18
fctd (Kg/cm2) : 12
fcfm (Kg/cm2) : 31
Ecm (Kg/cm2) : 319172

Acciaio in barre
fyk (Kg/cm2) : 4500.0
gammas : 1.15
fyd (Kg/cm2) : 3913.0
Es (Kg/cm2) : 2140673

Copriferro (cm): 3.00

===== SOLLECITAZIONI DI PROGETTO S.L.U. (i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
14	0.00 i	-106	-6405	0	69	-0	-2759	51	3985	18	636	33	2140
	1.50 m	-106	-3487	0	69	0	1018	51	2571	18	636	7	3116
	3.56 f	-106	526	0	69	0	-4175	51	7011	18	636	30	-909
15	0.00 i	-95	-6677	-0	-108	0	-3960	67	4846	27	827	37	-947
	2.53 m	-95	-1750	-0	-108	-0	-1663	67	5873	27	827	31	2371
	2.83 f	-95	-1170	-0	-108	-0	-2555	67	6453	27	827	39	2254

===== VERIFICA S.L.U. / ARMATURE LONGITUDINALI E TRASVERSALI =====

ELEM.	SEZIONE	x m	CSic. (N+M)	Vrdu2 Kg	Vrdu3 Kg	Trdu Kgm	AST/tag (cm2/m)	AL/tors (cm2)	AF intr (cm2)	AF estr (cm2)	VERIFICA ELEMENTO	Epsc (x 1000.)	Epss
14	25x45	0.00 i	2.01	27269.1	27269.1	0.0	3.8	0.0	3.5	3.5	V	1.1	10.0
		1.50 m	1.77	22989.6	14297.9	0.0	3.8	0.0	3.5	3.1	V	1.1	10.0
		3.56 f	1.32	27269.1	27269.1	0.0	3.8	0.0	3.1	3.5	V	1.1	10.0
15	25x45	0.00 i	1.40	27269.1	27269.1	0.0	3.8	0.0	3.1	3.5	V	1.1	10.0
		2.53 m	2.33	27269.1	27269.1	0.0	3.8	0.0	3.5	3.5	V	1.1	10.0
		2.83 f	2.16	27269.1	27269.1	0.0	3.8	0.0	3.5	3.5	V	1.1	10.0

===== STAFFE / PIEGATI =====

ELEM.	SEZIONE	Tratto n.ro staffatura	L (m)	D (mm)	Passo (cm)	nbr
14	25x45	1	0.6	8	11	2
		2	2.4	8	26	2
		3	0.6	8	11	2
15	25x45	1	0.6	8	11	2
		2	1.7	8	26	2
		3	0.6	8	11	2

===== RISULTATI : VERIFICA TRAVATA 7 A QUOTA Z= 355.00 =====

Calcestruzzo	Acciaio in barre
Rck (Kg/cm2) : 300	fyk (Kg/cm2) : 4500.0
gammaac : 1.50	gammaas : 1.15
fck (Kg/cm2) : 249	fyd (Kg/cm2) : 3913.0
fed (Kg/cm2) : 141	Es (Kg/cm2) : 2140673
fcmt (Kg/cm2) : 331	
fctm (Kg/cm2) : 26	
fctk (Kg/cm2) : 18	

fctd (Kg/cm2) : 12
fcfm (Kg/cm2) : 31
Ecm (Kg/cm2) : 319172

Copriferro (cm) : 3.00

===== SOLLECITAZIONI DI PROGETTO S.L.U. (i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
18	0.00 i	-106	-6405	-0	-89	0	-2775	52	3993	18	637	33	2155
	1.50 m	-106	-3487	-0	-89	-0	1014	52	2571	18	637	7	3117
	3.56 f	-106	526	-0	-89	-0	-4172	52	7010	18	637	29	-897
19	0.00 i	-95	-6677	0	83	-0	-3957	67	4854	27	826	37	-937
	2.53 m	-95	-1750	0	83	0	-1676	67	5873	27	826	31	2384
	2.83 f	-95	-1170	0	83	0	-2571	67	6453	27	826	39	2269

===== VERIFICA S.L.U. / ARMATURE LONGITUDINALI E TRASVERSALI =====

ELEM.	SEZIONE	x m	CSic. (N+M)	Vrdu2 Kg	Vrdu3 Kg	Trdu Kg/m	AST/tag (cm2/m)	AL/tors (cm2)	AF intr (cm2)	AF estr (cm2)	VERIFICA ELEMENTO	Epsc (x 1000.)	Epss
18	25x45	0.00 i	2.00	27269.1	27269.1	0.0	3.8	0.0	3.5	3.5	v	1.1	10.0
		1.50 m	1.77	22989.6	14297.9	0.0	3.8	0.0	3.5	3.1	v	1.1	10.0
		3.56 f	1.32	27269.1	27269.1	0.0	3.8	0.0	3.1	3.5	v	1.1	10.0
19	25x45	0.00 i	1.40	27269.1	27269.1	0.0	3.8	0.0	3.1	3.5	v	1.1	10.0
		2.53 m	2.32	27269.1	27269.1	0.0	3.8	0.0	3.5	3.5	v	1.1	10.0
		2.83 f	2.15	27269.1	27269.1	0.0	3.8	0.0	3.5	3.5	v	1.1	10.0

===== STAFFE / PIEGATI =====

ELEM.	SEZIONE	Tratto n.ro staffatura	L (m)	D (mm)	Passo (cm)	nbr
18	25x45	1	0.6	8	11	2
		2	2.4	8	26	2
		3	0.6	8	11	2
19	25x45	1	0.6	8	11	2
		2	1.7	8	26	2
		3	0.6	8	11	2

===== RISULTATI : VERIFICA TRAVATA 8 A QUOTA Z= 355.00 =====

Calcestruzzo
Rck (Kg/cm2) : 300
gammac : 1.50
fck (Kg/cm2) : 249
Acciaio in barre
fyk (Kg/cm2) : 4500.0
gammak : 1.15
fyd (Kg/cm2) : 3913.0

fcd (Kg/cm2) : 141
fcm (Kg/cm2) : 331
fctm (Kg/cm2) : 26
fctk (Kg/cm2) : 18
fctd (Kg/cm2) : 12
fcfm (Kg/cm2) : 31
Ecm (Kg/cm2) : 319172

Es (Kg/cm2) : 2140673

Copriferro (cm): 3.00

==== SOLLECITAZIONI DI PROGETTO S.L.U. (i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
16	0.00 i	-43	-4247	-0	0	0	-3751	-23	3226	15	34	32	3121
	3.93 m	-43	-1274	-0	0	0	-3069	-23	4082	15	34	29	3088
	4.15 f	-43	-1108	-0	0	0	-3756	-23	4247	15	34	32	3125

==== VERIFICA S.L.U. / ARMATURE LONGITUDINALI E TRASVERSALI =====

ELEM.	SEZIONE	x m	CSic. (N+M)	Vrdu2 Kg	Vrdu3 Kg	Trdu Kg	AST/tag (cm2/m)	AL/tors (cm2)	AF intr (cm2)	AF estr (cm2)	VERIFICA ELEMENTO	Epsc (x 1000.)	Epss
16	25x45	0.00 i	1.48	27269.1	27269.1	0.0	3.8	0.0	3.5	3.5	V	1.1	10.0
		3.93 m	1.80	27269.1	27269.1	0.0	3.8	0.0	3.5	3.5	V	1.1	10.0
		4.15 f	1.48	27269.1	27269.1	0.0	3.8	0.0	3.5	3.5	V	1.1	10.0

==== STAFFE / PIEGATI =====

ELEM.	SEZIONE	Tratto n.ro staffatura	L (m)	D (mm)	Passo (cm)	nbr
16	25x45	1	0.6	8	11	2
		2	3.0	8	26	2
		3	0.6	8	11	2

===== RISULTATI : VERIFICA TRAVATA 9 A QUOTA Z= 355.00 =====

Calcestruzzo
Rck (Kg/cm2) : 300
gamma_c : 1.50
fck (Kg/cm2) : 249
fcd (Kg/cm2) : 141
fcm (Kg/cm2) : 331
fctm (Kg/cm2) : 26
fctk (Kg/cm2) : 18
fctd (Kg/cm2) : 12
fcfm (Kg/cm2) : 31
Ecm (Kg/cm2) : 319172

Acciaio in barre
fyk (Kg/cm2) : 4500.0
gamma_s : 1.15
fyd (Kg/cm2) : 3913.0
Es (Kg/cm2) : 2140673

Copriferro (cm): 3,00

===== SOLLECITAZIONI DI PROGETTO S.L.U. (i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
17	0.00 i	-50	-4247	-0	-0	-0	-3342	-23	3025	13	83	27	2693
	3.93 m	-50	-1274	-0	-0	-0	-2707	-23	4082	13	83	24	2706
	4.15 f	-50	-1108	-0	-0	-0	-3350	-23	4247	13	83	27	2700

===== VERIFICA S.L.U. / ARMATURE LONGITUDINALI E TRASVERSALI =====

ELEM.	SEZIONE	x m	CSic. (N+M)	Vrdu2 Kg	Vrdu3 Kg	Trdu Kgm	AST/tag (cm2/m)	AL/tors (cm2)	AF intr (cm2)	AF estr (cm2)	VERIFICA ELEMENTO	Epsc (x 1000.)	Epss
17	25x45	0.00 i	1.66	27269.1	27269.1	0.0	3.8	0.0	3.5	3.5	v	1.1	10.0
		3.93 m	2.05	27269.1	27269.1	0.0	3.8	0.0	3.5	3.5	v	1.1	10.0
		4.15 f	1.66	27269.1	27269.1	0.0	3.8	0.0	3.5	3.5	v	1.1	10.0

===== STAPPE / PIEGATI =====

ELEM.	SEZIONE	Tratto n.ro staffatura	L (m)	D (mm)	Passo (cm)	nbr
17	25x45	1	0.6	8	11	2
		2	3.0	8	26	2
		3	0.6	8	11	2

===== RISULTATI : VERIFICA TRAVATA 1 =====

===== SOLLECITAZIONI DI INVILUPPO COMB. SLE RARE(i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
1	0.00 i	0	2557	-0	244	0	-133	0	2650	-0	253	0	-126
	1.50 m	0	-160	-0	244	0	-1931	0	-147	-0	253	0	-1864
	3.56 f	0	-3818	-0	244	-0	1992	0	-3656	-0	253	-0	2101
2	0.00 i	0	3294	0	-340	-0	2072	0	3441	0	-328	-0	2184
	1.78 m	0	106	0	-340	0	-979	0	120	0	-328	0	-950
	2.83 f	0	-1838	0	-340	0	-93	0	-1779	0	-328	0	-87

===== TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE =====

ELEM.	SEZIONE	x m	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO
1	T rovescio	0.00 i	0.0	0.0	149.4	3600.0	v
		1.50 m	-6.2	480.5	149.4	3600.0	v

2	T rovescio	3.56 f	-10.1	530.7	149.4	3600.0	V
		0.00 i	-10.8	553.5	149.4	3600.0	V
		1.78 m	-3.1	243.4	149.4	3600.0	V
		2.83 f	0.0	0.0	149.4	3600.0	V

RISULTATI : VERIFICA TRAVATA 2

===== SOLLECITAZIONI DI INVILUPPO COMB. SLE RARE(i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
6	0.00 i	0	2568	0	-218	-0	-132	0	2661	0	-210	-0	-125
	1.31 m	0	164	0	-218	-0	-1935	0	164	0	-210	-0	-1867
	3.56 f	0	-3851	0	-218	0	2024	0	-3689	0	-210	0	2134
7	0.00 i	0	3326	-0	282	0	2103	0	3473	-0	293	0	2217
	1.78 m	0	112	-0	282	-0	-981	0	126	-0	293	-0	-952
	2.83 f	0	-1843	-0	282	-0	-95	0	-1785	-0	293	-0	-89

===== TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE =====

ELEM.	SEZIONE	x m	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO
6		0.00 i	0.0	0.0	149.4	3600.0	V
		1.31 m	-6.2	506.8	149.4	3600.0	V
		3.56 f	-10.5	568.0	149.4	3600.0	V
7		0.00 i	-11.2	591.5	149.4	3600.0	V
		1.78 m	-3.2	256.9	149.4	3600.0	V
		2.83 f	0.0	0.0	149.4	3600.0	V

RISULTATI : VERIFICA TRAVATA 3

===== SOLLECITAZIONI DI INVILUPPO COMB. SLE RARE(i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
3	0.00 i	0	3158	0	-1	0	-314	0	3278	0	-0	0	-303
	1.97 m	0	124	0	-1	0	-3406	0	129	0	-0	0	-3282
	4.15 f	0	-3268	0	-1	0	-280	0	-3148	0	-0	0	-271

===== TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE =====

ELEM.	SEZIONE	x m	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO
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3	T	rovescio	0.00	i	-1.0	78.0	149.4	3600.0	V
			1.97	m	-10.9	847.8	149.4	3600.0	V
			4.15	f	-0.9	69.7	149.4	3600.0	V

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RISULTATI : VERIFICA TRAVATA 4

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===== SOLLECITAZIONI DI INVILUPPO COMB. SLE RARE(i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
4	0.00	i	0	2552	0	0	-0	635	0	2648	0	-0	660
	2.18	m	0	-73	0	0	-0	-1573	0	-70	0	-0	-1516
	4.15	f	0	-2581	0	0	0	560	0	-2486	0	0	582

===== TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE =====

ELEM.	SEZIONE	x	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO
4	70x40	0.00	i	-6.0	342.8	149.4	3600.0
		2.18	m	-14.3	817.5	149.4	3600.0
		4.15	f	-5.3	302.2	149.4	3600.0

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RISULTATI : VERIFICA TRAVATA 5

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===== SOLLECITAZIONI DI INVILUPPO COMB. SLE RARE(i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
5	0.00	i	0	2898	0	-1	-0	-403	0	3007	0	-1	-389
	1.97	m	0	109	0	-1	-0	-3226	0	113	0	-1	-3110
	4.15	f	0	-3003	0	-1	-0	-358	0	-2894	0	-1	-345

===== TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE =====

ELEM.	SEZIONE	x	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO
5	T rovescio	0.00	i	-1.3	100.2	149.4	3600.0
		1.97	m	-10.3	802.8	149.4	3600.0
		4.15	f	-1.1	88.9	149.4	3600.0

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RISULTATI : VERIFICA TRAVATA 6

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===== SOLLECITAZIONI DI INVILUPPO COMB. SLE RARE(i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
14	0.00 i	-35	-3551	0	63	-0	-391	-33	-3394	0	65	-0	-372
	1.50 m	-35	55	0	63	0	2127	-33	55	0	65	0	2225
	3.56 f	-35	4796	0	63	0	-2991	-33	5014	0	65	0	-2864
15	0.00 i	-19	-4339	-0	-79	0	-2838	-18	-4151	-0	-77	0	-2718
	1.78 m	-19	-41	-0	-79	0	1022	-18	-41	-0	-77	0	1069
	2.83 f	-19	2357	-0	-79	-0	-194	-18	2467	-0	-77	-0	-184

===== TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE =====

ELEM.	SEZIONE	x m	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO
14	25x45	0.00 i	-6.1	288.4	149.4	3600.0	v
		1.50 m	-35.6	1645.0	149.4	3600.0	v
		3.56 f	-47.9	2210.6	149.4	3600.0	v
15	25x45	0.00 i	-45.4	2097.5	149.4	3600.0	v
		1.78 m	-16.8	789.3	149.4	3600.0	v
		2.83 f	-3.0	142.9	149.4	3600.0	v

===== TRAVATA 7 =====

===== SOLLECITAZIONI DI INVILUPPO COMB. SLE RARE(i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
18	0.00 i	-35	-3551	-0	-65	0	-391	-33	-3394	-0	-63	0	-373
	1.50 m	-35	54	-0	-65	-0	2128	-33	55	-0	-63	-0	2226
	3.56 f	-35	4795	-0	-65	-0	-2989	-33	5013	-0	-63	-0	-2863
19	0.00 i	-19	-4338	0	76	-0	-2836	-18	-4150	0	78	-0	-2716
	1.78 m	-19	-40	0	76	-0	1022	-18	-40	0	78	-0	1069
	2.83 f	-19	2358	0	76	0	-194	-18	2468	0	78	0	-184

===== TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE =====

ELEM.	SEZIONE	x m	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO
18	25x45	0.00 i	-6.2	288.9	149.4	3600.0	v
		1.50 m	-35.7	1645.3	149.4	3600.0	v
		3.56 f	-47.9	2209.2	149.4	3600.0	v
19	25x45	0.00 i	-45.4	2096.1	149.4	3600.0	v

1.78 m -16.8 789.5 149.4 3600.0 v
2.83 f -3.1 143.5 149.4 3600.0 v

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RISULTATI : VERIFICA TRAVATA 8

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===== SOLLECITAZIONI DI INVILUPPO COMB. SLE RARE(i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
16	0.00 i	-32	-1823	-0	0	0	-365	-31	-1766	-0	0	0	-354
	1.97 m	-32	-96	-0	0	0	1474	-31	-93	-0	0	0	1522
	4.15 f	-32	1766	-0	0	0	-365	-31	1824	-0	0	0	-354

===== TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE =====

ELEM.	SEZIONE	x m	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO
16	25x45	0.00 i	-5.7	269.4	149.4	3600.0	v
		1.97 m	-24.4	1124.6	149.4	3600.0	v
		4.15 f	-5.7	269.7	149.4	3600.0	v

=====

RISULTATI : VERIFICA TRAVATA 9

=====

===== SOLLECITAZIONI DI INVILUPPO COMB. SLE RARE(i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
17	0.00 i	-36	-1823	-0	-0	-0	-376	-35	-1766	-0	-0	-0	-365
	1.97 m	-36	-96	-0	-0	-0	1463	-35	-93	-0	-0	-0	1510
	4.15 f	-36	1766	-0	-0	-0	-377	-35	1824	-0	-0	-0	-365

===== TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE =====

ELEM.	SEZIONE	x m	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO
17	25x45	0.00 i	-5.9	277.8	149.4	3600.0	v
		1.97 m	-24.2	1116.2	149.4	3600.0	v
		4.15 f	-5.9	278.2	149.4	3600.0	v

=====

RISULTATI : VERIFICA TRAVATA 1

=====

===== SOLLECITAZIONI DI INVILUPPO COMB. SLE PERMANENTI(i=filo iniziale, m=ascissa max M3 , f=filo finale) =====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
1	0.00 i	0	2240	-0	213	0	-101	0	2240	-0	213	0	-101
	1.50 m	0	-105	-0	213	0	-1638	0	-105	-0	213	0	-1638
	3.56 f	0	-3112	-0	213	-0	1628	0	-3112	-0	213	-0	1628
2	0.00 i	0	2799	0	-286	-0	1694	0	2799	0	-286	-0	1694
	1.78 m	0	60	0	-286	0	-851	0	60	0	-286	0	-851
	2.83 f	0	-1580	0	-286	0	-69	0	-1580	0	-286	0	-69

==== TENSIONI MAX CLS, ACCIAIO COMB. SLE PERMANENTI ====

ELEM.	SEZIONE	x m	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO	LIMITI PER CONTROLLO FESSURAZIONE				
								Diam.Max	barre (mm)	Spaz.Max	barre (cm)	
1	T rovescio	0.00 i	0.0	0.0	112.1	3600.0	V	32	30			
		1.50 m	-5.2	407.8	112.1	3600.0	V	32	30			
		3.56 f	-7.8	411.1	112.1	3600.0	V	32	30			
2	T rovescio	0.00 i	-8.4	429.3	112.1	3600.0	V	32	30			
		1.78 m	-2.7	211.6	112.1	3600.0	V	32	30			
		2.83 f	0.0	0.0	112.1	3600.0	V	32	30			

=====

RISULTATI : VERIFICA TRAVATA 2

=====

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
6	0.00 i	0	2252	0	-184	-0	-100	0	2252	0	-184	-0	-100
	1.50 m	0	-109	0	-184	-0	-1644	0	-109	0	-184	-0	-1644
	3.56 f	0	-3143	0	-184	0	1656	0	-3143	0	-184	0	1656
7	0.00 i	0	2828	-0	246	0	1722	0	2828	-0	246	0	1722
	1.78 m	0	65	-0	246	-0	-854	0	65	-0	246	-0	-854
	2.83 f	0	-1587	-0	246	-0	-70	0	-1587	-0	246	-0	-70

==== TENSIONI MAX CLS, ACCIAIO COMB. SLE PERMANENTI ====

ELEM.	SEZIONE	x m	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO	LIMITI PER CONTROLLO FESSURAZIONE				
								Diam.Max	barre (mm)	Spaz.Max	barre (cm)	
6		0.00 i	0.0	0.0	112.1	3600.0	V	32	30			
		1.50 m	-5.4	430.9	112.1	3600.0	V	32	30			
		3.56 f	-8.1	440.6	112.1	3600.0	V	32	30			
7		0.00 i	-8.7	459.4	112.1	3600.0	V	32	30			
		1.78 m	-2.8	223.7	112.1	3600.0	V	32	30			
		2.83 f	0.0	0.0	112.1	3600.0	V	32	30			

3

```
===== SOLLECITAZIONI DI INVILUPPO COMB. SLE PERMANENTI(i=filo iniziale, m=ascissa max M3 , f=filo finale) =====
```

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)	
3	0.00	i	0	2750	0	-1	0	-268	0	2750	0	-1	0	-268
	1.97	m	0	107	0	-1	0	-2860	0	107	0	-1	0	-2860
	4.15	f	0	-2738	0	-1	0	-239	0	-2738	0	-1	0	-239

===== TENSIONI MAX CLS, ACCIAIO COMB. SLE PERMANENTI =====

ELEM.	SEZIONE	x m	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO	LIMITI PER CONTROLLO FESSURAZIONE Diam.Max barre (mm)	Spaz.Max.barre (cm)
3	T rovescio	0.00	i -0.8	66.6	112.1	3600.0	v	32	30
		1.97	m -9.2	711.9	112.1	3600.0	v	32	30
		4.15	f -0.8	59.5	112.1	3600.0	v	32	30

4

```
===== SOLLECITAZIONI DI INVILUPPO COMB. SLE PERMANENTI (i=filo iniziale, m=ascissa max M3 , f=filo finale) =====
```

ELEM.	x (m)	Nmin (Kg)	V2min (Kg)	V3min (Kg)	Tmin (Kg*m)	M2min (Kg*m)	M3min (Kg*m)	Nmax (Kg)	V2max (Kg)	V3max (Kg)	Tmax (Kg*m)	M2max (Kg*m)	M3max (Kg*m)
4	0.00	i	0	2227	0	0	554	0	2227	0	0	-0	554
	2.18	m	0	-62	0	-0	-1323	0	-62	0	0	-0	-1323
	4.15	f	0	-2166	0	0	487	0	-2166	0	0	-0	487

===== TENSIONI MAX CLS, ACCIAIO COMB. SLE PERMANENTI =====

ELEM.	SEZIONE	x m	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO	LIMITI PER CONTROLLO Diam.Max barre (mm)	FESSURAZIONE Spaz.Max.barre (cm)
4	70x40	0.00	i	-5.0	287.7	112.1	3600.0	32	30
		2.18	m	-12.0	687.3	112.1	3600.0	32	30
		4.15	f	-4.4	253.1	112.1	3600.0	32	30

16

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===== SOLLECITAZIONI DI INVILUPPO COMB. SLE PERMANENTI(i=filo iniziale, m=ascissa max M3 , f=filo finale) =====
```

[illegible]

5	0.00	i	0	2531	0	-0	-0	-342	0	2531	0	-0	-0	-342
	1.97	m	0	94	0	-0	-0	-2716	0	94	0	-0	-0	-2716
	4.15	f	0	-2525	0	-0	-0	-303	0	-2525	0	-0	-0	-303

==== TENSIONI MAX CLS, ACCIAIO COMB. SLE PERMANENTI ====

ELEM.	SEZIONE	x	m	SCmin	SFmax	Scamm	Sfamm	VERIFICA	LIMITI PER CONTROLLO FESSURAZIONE				
				Kg/cm2	Kg/cm2	Kg/cm2	Kg/cm2	ELEMENTO	Diam.Max	barre(mm)	Spaz.Max	barre(cm)	

5	T rovescio	0.00	i	-1.1	85.0	112.1	3600.0	V	32	30		
		1.97	m	-8.7	676.0	112.1	3600.0	V	32	30		
		4.15	f	-1.0	75.4	112.1	3600.0	V	32	30		

=====

RISULTATI : VERIFICA TRAVATA 6

=====

==== SOLLECITAZIONI DI INVILUPPO COMB. SLE PERMANENTI(i=filo iniziale, m=ascissa max M3 , f=filo finale) ====

ELEM.	x	(m)	Nmin	V2min	V3min	Tmin	M2min	M3min	Nmax	V2max	V3max	Tmax	M2max	M3max
			(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)

14	0.00	i	-27	-2866	0	56	-0	-310	-27	-2866	0	56	-0	-310
	1.50	m	-27	52	0	56	0	1797	-27	52	0	56	0	1797
	3.56	f	-27	4064	0	56	0	-2439	-27	4064	0	56	0	-2439

15	0.00	i	-14	-3520	-0	-68	0	-2316	-14	-3520	-0	-68	0	-2316
	1.78	m	-14	-42	-0	-68	0	862	-14	-42	-0	-68	0	862
	2.83	f	-14	1987	-0	-68	-0	-151	-14	1987	-0	-68	-0	-151

==== TENSIONI MAX CLS, ACCIAIO COMB. SLE PERMANENTI ====

ELEM.	SEZIONE	x	m	SCmin	SFmax	Scamm	Sfamm	VERIFICA	LIMITI PER CONTROLLO FESSURAZIONE				
				Kg/cm2	Kg/cm2	Kg/cm2	Kg/cm2	ELEMENTO	Diam.Max	barre(mm)	Spaz.Max	barre(cm)	

14	25x45	0.00	i	-4.9	228.6	112.1	3600.0	V	32	30		
		1.50	m	-28.8	1328.0	112.1	3600.0	V	32	30		
		3.56	f	-39.1	1802.7	112.1	3600.0	V	25	25		

15	25x45	0.00	i	-37.1	1711.5	112.1	3600.0	V	25	25		
		1.78	m	-13.6	636.3	112.1	3600.0	V	32	30		
		2.83	f	-2.4	111.2	112.1	3600.0	V	32	30		

=====

RISULTATI : VERIFICA TRAVATA 7

=====

==== SOLLECITAZIONI DI INVILUPPO COMB. SLE PERMANENTI(i=filo iniziale, m=ascissa max M3 , f=filo finale) ====

ELEM.	x	(m)	Nmin	V2min	V3min	Tmin	M2min	M3min	Nmax	V2max	V3max	Tmax	M2max	M3max
			(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)

18	0.00	i	-27	-2867	-0	-56	0	-310	-27	-2867	-0	-56	0	-310
	1.50	m	-27	51	-0	-56	-0	1797	-27	51	-0	-56	-0	1797
	3.56	f	-27	4063	-0	-56	-0	-2437	-27	4063	-0	-56	-0	-2437
19	0.00	i	-14	-3519	0	68	-0	-2314	-14	-3519	0	68	-0	-2314
	1.78	m	-14	-41	0	68	-0	862	-14	-41	0	68	-0	862
	2.83	f	-14	1988	0	68	0	-151	-14	1988	0	68	0	-151

==== TENSIONI MAX CLS, ACCIAIO COMB. SLE PERMANENTI ===

ELEM.	SEZIONE	x	m	SCmin	SFmax	SCamm	Sfamm	VERIFICA	LIMITI PER CONTROLLO	FESSURAZIONE
				Kg/cm2	Kg/cm2	Kg/cm2	Kg/cm2	ELEMENTO	Diam.Max barre (mm)	Spaz.Max.barre (cm)

18	25x45	0.00	i	-4.9	228.9	112.1	3600.0	V	32	30
		1.50	m	-28.8	1328.2	112.1	3600.0	V	32	30
		3.56	f	-39.0	1801.7	112.1	3600.0	V	25	25

19	25x45	0.00	i	-37.1	1710.6	112.1	3600.0	V	25	25
		1.78	m	-13.6	636.4	112.1	3600.0	V	32	30
		2.83	f	-2.4	111.6	112.1	3600.0	V	32	30

=====

RISULTATI : VERIFICA TRAVATA 8

=====

==== SOLLECITAZIONI DI INVILUPPO COMB. SLE PERMANENTI(i=filo iniziale, m=ascissa max M3 , f=filo finale) ===

ELEM.	x	Nmin	V2min	V3min	Tmin	M2min	M3min	Nmax	V2max	V3max	Tmax	M2max	M3max
	(m)	(Kg)	(Kg)	(Kg)	(Kg*cm)	(Kg*cm)	(Kg*cm)	(Kg)	(Kg)	(Kg)	(Kg*cm)	(Kg*cm)	(Kg*cm)

16	0.00	i	-28	-1569	-0	0	-315	-28	-1569	-0	0	0	-315
	1.97	m	-28	-83	-0	0	1308	-28	-83	-0	0	0	1308
	4.15	f	-28	1569	-0	0	-315	-28	1569	-0	0	0	-315

==== TENSIONI MAX CLS, ACCIAIO COMB. SLE PERMANENTI ===

ELEM.	SEZIONE	x	m	SCmin	SFmax	SCamm	Sfamm	VERIFICA	LIMITI PER CONTROLLO	FESSURAZIONE
				Kg/cm2	Kg/cm2	Kg/cm2	Kg/cm2	ELEMENTO	Diam.Max barre (mm)	Spaz.Max.barre (cm)

16	25x45	0.00	i	-5.0	232.6	112.1	3600.0	V	32	30
		1.97	m	-21.0	967.1	112.1	3600.0	V	32	30
		4.15	f	-5.0	232.9	112.1	3600.0	V	32	30

=====

RISULTATI : VERIFICA TRAVATA 9

=====

==== SOLLECITAZIONI DI INVILUPPO COMB. SLE PERMANENTI(i=filo iniziale, m=ascissa max M3 , f=filo finale) ===

ELEM.	x	Nmin	V2min	V3min	Tmin	M2min	M3min	Nmax	V2max	V3max	Tmax	M2max	M3max
	(m)	(Kg)	(Kg)	(Kg)	(Kg*cm)	(Kg*cm)	(Kg*cm)	(Kg)	(Kg)	(Kg)	(Kg*cm)	(Kg*cm)	(Kg*cm)

17	0.00	i	-32	-1569	-0	-0	-325	-32	-1569	-0	-0	-0	-325
----	------	---	-----	-------	----	----	------	-----	-------	----	----	----	------

1.97 m	-32	-82	-0	-0	-0	1299	-32	-82	-0	-0	1299
4.15 f	-32	1569	-0	-0	-0	-325	-32	1569	-0	-0	-325

==== TENSIONI MAX CLS, ACCIAIO COMB. SLE PERMANENTII ====

ELEM.	SEZIONE	x m	SCmin Kg/cm2	SFmax Kg/cm2	Scamm Kg/cm2	Sfamm Kg/cm2	VERIFICA ELEMENTO	LIMITI PER CONTROLLO FESSURAZIONE	
								Diam.Max barre (mm)	Spaz.Max.barre (cm)
17	25x45	0.00 i	-5.1	239.8	112.1	3600.0	V	32	30
		1.97 m	-20.8	959.8	112.1	3600.0	V	32	30
		4.15 f	-5.1	240.1	112.1	3600.0	V	32	30

LEGENDA TABELLA VERIFICA A TAGLIO TRAVI IN C.A. NTC 2008 p.to 7.4.4.1.1 :

Trav. n. : numero della travata
 Elem. n. : numero dell'elemento trave in c.a.
 comb.stat. : combinazione statica contemporanea al sisma
 Gm : coeff. sovrarresistenza = 1,2 per CDA, coeff = 1 per CDB
 Mr1I : momento resistente sinistrogio della trave nel nodo I
 Mr2I : momento resistente destrigiro della trave nel nodo I
 Mr1J : momento resistente sinistrogio della trave nel nodo J
 Mr2J : momento resistente sinistrogio della trave nel nodo J
 l : lunghezza della trave
 Vm1 : taglio dello stesso segno di quello prodotto dai carichi gravitazionali
 Vm2 : taglio di segno opposto a quello prodotto dai carichi gravitazionali
 Vlg : taglio nel nodo I prodotto dai carichi gravit. (comb.statica contemp. con cerniere nodi I,J)
 VJg : taglio nel nodo J prodotto dai carichi gravit. (comb.statica contemp. con cerniere nodi I,J)
 VI- : Vm2 + VI
 VI+ : Vm1 + VI
 VJ- : Vm2 + VJ
 VJ+ : Vm1 + VJ

Trav. n.	Elem. n.	comb. stat.	Mr1I Kg	Mr2I Kg	Gm* (Mr1I+Mr2J) / l	Vm1 (Kg)	Gm* (Mr2I+Mr1J) / l	Vm2 (Kg)	Vlg Kg	VI- Kg	VI+ Kg	VJg Kg	VJ- Kg	VJ+ Kg
6	14	9	5556	5528	-2939	-2939	3118	-3465	3465	-347	-6405	3465	6583	526
6	15	9	5556	4894	-3923	-3923	3699	-2753	2753	-6405	946	2753	6453	6453
7	18	9	5556	5528	-2939	-2939	3118	-3465	3465	-6677	-347	3465	-1170	-1170
7	19	9	5556	4894	-3923	-3923	3699	-2753	2753	-6405	946	2753	6453	526
8	16	9	5556	5556	-2678	-2678	2678	-1569	1569	-6677	1108	1569	-1170	4247
9	17	9	5556	5556	-2678	-2678	2678	-1569	1569	-4247	1108	1569	-1108	4247
			5556	5556						-4247	-4247		-1108	-1108

LEGENDA TABELLA VERIFICA PILASTRI/PALI IN C.A. METODO S.L.

Di seguito si riportano le spiegazioni delle sigle usate nella tabella VERIFICA
PILASTRI IN C.A.

```

ELEM.n.ro      numero dell' elemento
quota          quota sezione di verifica del pilastro
N              sforzo normale nel p.to x
V2             forza di taglio ' ' ' in direz. 2 locale
V3             forza di taglio ' ' ' ' ' 3 '
T             momento torcente ' ' '
M2             momento flettente ' ' ' intorno asse 2 loc.
M3             momento flettente ' ' ' ' ' 3 '
Nlim           sforzo normale limite nel p.to x
M2lim          momento flettente limite intorno asse 2 loc.
M3lim          momento flettente limite ' 3 '
Csic.          coeff. sicurezza ad N=costante
CASO           n.ro caso di carico
COMB           n.ro combinazione
sc max         tensione max (in senso algebrico) nel cls (poiche' le tensioni di
compressione sono negative, scmax e' = 0.)
sc min         tensione min (in senso algebrico) nel cls (in valore assoluto e' la
massima tensione di compressione nel cls)
sf max         tensione max (in senso algebrico) nell'acciaio (e' la massima trazione
nell'acciaio o la minima compressione
               , in valore assoluto )
sf min         tensione min (in senso algebrico) nell'acciaio (e' la minima trazione
nell'acciaio o la massima compressione
               , in valore assoluto )
tau2           tensione tangenziale max relativa al taglio V2
tau3           tensione tangenziale max relativa al taglio V3
tautors        ' ' max per momento torcente T
taumax        ' ' ( = tautors + tau2 + tau3)
Scamm          tensione ammissibile nel cls per lo s.l.e. considerato
Sfamm          tensione ammissibile nell'acciaio per lo s.l.e. considerato
cod            v = verificato, nv = non verificato
caso           n.ro caso di carico
comb           n.ro combinazione
SEZIONE        dimensioni della sezione trasversale del pilastro ( rettangolare,
circolare, T, L, per gli altri tipi si
               riporta solo il tipo: es. T 60/30x50, oppure sez. polig. etc.
NF spig        numero complessivo di ferri negli spigoli (i.e. somma del numero dei
ferri di spigolo per tutti gli spigoli)
DF (mm)        diametro in mm dei ferri negli spigoli
NF lati        numero complessivo di ferri lungo i lati (somma del n.ro dei ferri di
parete per tutti i lati della sezione)
DF (mm)        diametro in mm dei ferri lungo i lati
               N.B. nel caso importante delle sezioni rettangolari i ferri sui lati
sono disposti parte lungo le basi e parte
               lungo le altezze della sezione in modo tale che NF lati = (nF Base
+ nF Altezza)
nF Base        numero totale dei ferri sui lati disposti lungo le 2 basi (per le
sezioni rettangolari)
nF Altezza     numero totale dei ferri sui lati disposti lungo le 2 altezze (per le
sezioni rettangolari)
Epsc x 1000.   deformazione a rottura lato cls x 1000.
Epss x 1000.   deformazione a rottura lato acciaio x 1000.

```

===== PIIASTRATA 1 x = 0.00 y = 0.00 =====

Calcestruzzo
Rck (Kg/cm2) : 300
gamma : 1.50
fck (Kg/cm2) : 249
fcd (Kg/cm2) : 141
Ecm (Kg/cm2) : 319172

Copriferro (cm): 3.00

ELEM.	SEZIONE	quota (m)	N (Kg)	M2 (Kg*m)	M3 (Kg*m)	Nlim (Kg)	M2lim (Kg*m)	M3lim (Kg*m)	Csic.	COD.	C C		
											A	O	Epss (x1000.)
13	0.00 p	0.00 p	-3204	-1263	-3156	-3204	-1350	-3373	1.1	V	32	3.5	8.0
	1.78 m	1.78 m	-2941	191	359	-2941	1721	3233	9.0	V	30	3.5	6.4
	3.55 t	3.55 t	-2650	1397	3145	-2650	1466	3300	1.0	V	30	3.5	7.6

ELEM. SEZIONE quota Ferri spig. Ferri lati (nF Base + nF Altezza)

13	25x25	quota (m)	NF / DF (mm)	NF / DF (mm)	Ferri lati
					(nF Base + nF Altezza)
		0.00 p	4	16	0 16
		1.78 m	4	16	0 16
		3.55 t	4	16	0 16

===== PIIASTRATA 2 x = 3.56 y = 0.00 =====

Calcestruzzo
Rck (Kg/cm2) : 300
gamma : 1.50
fck (Kg/cm2) : 249
fcd (Kg/cm2) : 141
Ecm (Kg/cm2) : 319172

Copriferro (cm): 3.00

ELEM.	SEZIONE	quota (m)	N (Kg)	M2 (Kg*m)	M3 (Kg*m)	Nlim (Kg)	M2lim (Kg*m)	M3lim (Kg*m)	Csic.	COD.	C C		
											A	O	Epss (x1000.)
12	0.00 p	0.00 p	-7804	2872	-575	-7804	3873	-776	1.3	V	23	3.5	8.5
	1.78 m	1.78 m	-7505	41	547	-7505	293	3868	7.1	V	30	3.5	8.3
	3.55 t	3.55 t	-7250	-2903	-281	-7250	-3827	-370	1.3	V	24	3.3	10.0

ELEM. SEZIONE quota Ferri spig. Ferri lati (nF Base + nF Altezza)

12	25x25	quota (m)	NF / DF (mm)	NF / DF (mm)	Ferri lati
					(nF Base + nF Altezza)
		0.00 p	4	16	0 16
		1.78 m	4	16	0 16
		3.55 t	4	16	0 16

===== PILASTRATA 3 x = 6.38 y = 0.00 =====

Calcestruzzo

Rck (Kg/cm2) : 300
 gammac : 1.50
 fck (Kg/cm2) : 249
 fcd (Kg/cm2) : 141
 Ecm (Kg/cm2) : 319172

Acciaio in barre

fyk (Kg/cm2) : 4500.0
 gammas : 1.15
 fyd (Kg/cm2) : 3913.0
 Es (Kg/cm2) : 2140673

Copriferro (cm) : 3.00

ELEM.	quota (m)	N (Kg)	M2 (Kg*m)	M3 (Kg*m)	Nlim (Kg)	M2lim (Kg*m)	M3lim (Kg*m)	Csic.	COD.	A	C	O	M	B	Epsc (x1000.)
11	0.00 p	-2365	2630	-823	-2365	3371	-1055	1.3	V				23	3.5	9.5
	1.78 m	-2059	-112	312	-2059	-1179	3278	10.5	V				33	3.5	9.1
	3.55 t	-1810	-2575	950	-1810	-3284	1212	1.3	V				25	3.5	9.1

ELEM. SEZIONE

quota
(m)
 0.00 p
 1.78 m
 3.55 t

Ferri spig. Ferri lati (nF Base + nF Altezza)

NF / DF (mm) NF / DF (mm)
 4 16 0 16
 4 16 0 16
 4 16 0 16

===== PILASTRATA 4 x = 0.00 y = 4.15 =====

Calcestruzzo

Rck (Kg/cm2) : 300
 gammac : 1.50
 fck (Kg/cm2) : 249
 fcd (Kg/cm2) : 141
 Ecm (Kg/cm2) : 319172

Acciaio in barre

fyk (Kg/cm2) : 4500.0
 gammas : 1.15
 fyd (Kg/cm2) : 3913.0
 Es (Kg/cm2) : 2140673

Copriferro (cm) : 3.00

ELEM.	quota (m)	N (Kg)	M2 (Kg*m)	M3 (Kg*m)	Nlim (Kg)	M2lim (Kg*m)	M3lim (Kg*m)	Csic.	COD.	A	C	O	M	B	Epsc (x1000.)
8	0.00 p	-3206	1070	3163	-3206	1152	3403	1.1	V				30	3.5	8.8
	1.78 m	-2944	192	-359	-2944	1739	-3258	9.1	V				31	3.5	6.2
	3.55 t	-2652	1404	-3152	-2652	1476	-3313	1.1	V				31	3.5	7.5

ELEM. SEZIONE

quota
(m)
 0.00 p
 1.78 m
 3.55 t

Ferri spig. Ferri lati (nF Base + nF Altezza)

NF / DF (mm) NF / DF (mm)
 4 16 0 16
 4 16 0 16
 4 16 0 16

===== PILASTRATA 5 x = 3.56 y = 4.15 =====

Calcestruzzo
Rck (Kg/cm2) : 300
gamma
gamma (Kg/cm2) : 249
fck (Kg/cm2) : 141
fcd (Kg/cm2) : 141
Ecm (Kg/cm2) : 319172

Copriferro (cm) : 3.00

ELEM.	quota (m)	N (Kg)	M2 (Kg*m)	M3 (Kg*m)	Nlim (Kg)	M2lim (Kg*m)	M3lim (Kg*m)	Csic.	COD.	S O	A O	C O	Epsc (x1000.)
9	0.00 p	-7801	2892	-688	-7801	3873	-922	1.3	V	23	23	23	3.5
	1.78 m	-7504	42	-548	-7504	294	-3857	7.0	V	31	31	31	3.5
	3.55 t	-7246	-2923	-529	-7246	-3821	-692	1.3	V	24	24	24	3.5

ELEM. SEZIONE
ELEM. SEZIONE

9	25x25	quota (m)	Ferri spig. NF / DF (mm)	Ferri lati NF / DF (mm)	(nF Base + nF Altezza)
		0.00 p	4 16	0 16	
		1.78 m	4 16	0 16	
		3.55 t	4 16	0 16	

===== PILASTRATA 6 x = 6.38 y = 4.15 =====

Calcestruzzo
Rck (Kg/cm2) : 300
gamma
gamma (Kg/cm2) : 249
fck (Kg/cm2) : 141
fcd (Kg/cm2) : 141
Ecm (Kg/cm2) : 319172

Copriferro (cm) : 3.00

ELEM.	quota (m)	N (Kg)	M2 (Kg*m)	M3 (Kg*m)	Nlim (Kg)	M2lim (Kg*m)	M3lim (Kg*m)	Csic.	COD.	S O	A O	C O	Epsc (x1000.)
10	0.00 p	-2374	2649	-748	-2374	3372	-952	1.3	V	23	23	23	3.5
	1.78 m	-2060	-113	-313	-2060	-1192	-3309	10.6	V	32	32	32	3.5
	3.55 t	-1819	-2593	-982	-1819	-3295	-1247	1.3	V	24	24	24	3.5

ELEM. SEZIONE
ELEM. SEZIONE

10	25x25	quota (m)	Ferri spig. NF / DF (mm)	Ferri lati NF / DF (mm)	(nF Base + nF Altezza)
		0.00 p	4 16	0 16	
		1.78 m	4 16	0 16	
		3.55 t	4 16	0 16	

=== VERIFICA TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE PILASTRATA 1 x= 0.00 y= 0.00 ===== C C
ELEM. quota N (Kg) M2 (Kg*m) M3 (Kg*m) SCmax SCmin SFmax SFmin Scamm Sfamm COD. S M
(m) Kg/cm2 Kg/cm2
13 0.00 p -5929 -133 -61 -2.4 -13.5 -54.4 -182.7 149.4 3600.0 v 6
1.78 m -5651 129 119 -0.4 -14.7 -31.0 -195.2 149.4 3600.0 v 6
3.55 t -5374 391 300 0.0 -31.0 209.8 -373.0 149.4 3600.0 v 6

=== VERIFICA TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE PILASTRATA 2 x= 3.56 y= 0.00 ===== C C
ELEM. quota N (Kg) M2 (Kg*m) M3 (Kg*m) SCmax SCmin SFmax SFmin Scamm Sfamm COD. S M
(m) Kg/cm2 Kg/cm2
12 0.00 p -9907 83 66 -8.6 -17.6 -144.3 -248.3 149.4 3600.0 v 6
1.78 m -9630 -35 105 -8.5 -17.0 -141.2 -239.8 149.4 3600.0 v 6
3.55 t -9352 -153 144 -3.8 -21.1 -86.2 -285.6 149.4 3600.0 v 6

=== VERIFICA TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE PILASTRATA 3 x= 6.38 y= 0.00 ===== C C
ELEM. quota N (Kg) M2 (Kg*m) M3 (Kg*m) SCmax SCmin SFmax SFmin Scamm Sfamm COD. S M
(m) Kg/cm2 Kg/cm2
11 0.00 p -4845 94 -63 -2.0 -11.0 -45.1 -148.8 149.4 3600.0 v 6
1.78 m -4567 -50 117 -1.3 -10.9 -35.6 -146.7 149.4 3600.0 v 6
3.55 t -4290 -194 297 0.0 -22.1 125.0 -269.3 149.4 3600.0 v 6

=== VERIFICA TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE PILASTRATA 4 x= 0.00 y= 4.15 ===== C C
ELEM. quota N (Kg) M2 (Kg*m) M3 (Kg*m) SCmax SCmin SFmax SFmin Scamm Sfamm COD. S M
(m) Kg/cm2 Kg/cm2
8 0.00 p -5930 -133 62 -2.3 -13.6 -54.0 -183.2 149.4 3600.0 v 6
1.78 m -5652 129 -119 -0.4 -14.7 -31.0 -195.2 149.4 3600.0 v 6
3.55 t -5375 391 -301 0.0 -31.1 210.6 -373.6 149.4 3600.0 v 6

=== VERIFICA TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE PILASTRATA 5 x= 3.56 y= 4.15 ===== C C
ELEM. quota N (Kg) M2 (Kg*m) M3 (Kg*m) SCmax SCmin SFmax SFmin Scamm Sfamm COD. S M
(m) Kg/cm2 Kg/cm2
9 0.00 p -9905 83 -70 -8.5 -17.7 -143.1 -249.5 149.4 3600.0 v 6
1.78 m -9628 -35 -107 -8.4 -17.0 -140.7 -240.2 149.4 3600.0 v 6
3.55 t -9351 -153 -143 -3.8 -21.1 -86.5 -285.2 149.4 3600.0 v 6

=== VERIFICA TENSIONI MAX CLS, ACCIAIO COMB. SLE RARE PILASTRATA 6 x= 6.38 y= 4.15 ===== C C
ELEM. quota N (Kg) M2 (Kg*m) M3 (Kg*m) SCmax SCmin SFmax SFmin Scamm Sfamm COD. S M
(m) Kg/cm2 Kg/cm2
10 0.00 p -4846 94 65 -1.9 -11.1 -44.4 -149.5 149.4 3600.0 v 6
1.78 m -4569 -50 -117 -1.3 -10.9 -35.7 -146.7 149.4 3600.0 v 6
3.55 t -4291 -194 -298 0.0 -22.2 126.1 -270.1 149.4 3600.0 v 6

=== VERIFICA TENSIONI MAX CLS,ACCIAIO COMB.SLE PERM.PIILASTRATA													1	x=	0.00	y=	0.00	=====	C	C
ELEM.	quota	N	M2	M3	SCmax	SCmin	SFmax	SFmin	Scamm	Sfamm	COD.	S	O	M	B					
	(m)	(Kg)	(Kg*m)	(Kg*m)	Kg/cm2	Kg/cm2	Kg/cm2	Kg/cm2												
13	0.00 p	-4990	-100	-55	-2.2	-11.1	-49.6	-151.2	112.1	3600.0	v				9					
	1.78 m	-4713	105	102	-0.4	-12.3	-27.0	-162.6	112.1	3600.0	v				9					
	3.55 t	-4435	310	259	0.0	-25.5	171.3	-307.0	112.1	3600.0	v				9					

=== VERIFICA TENSIONI MAX CLS,ACCIAIO COMB,SLE PERM,PILASTRATA												2	x=	3.56	y=	0.00	=====	C
ELEM.	quota	N	M2	M3	SCmax	SCmin	SFmax	SFmin	Scamm	Sfamm	COD.	A						
	(m)	(Kg)	(Kg**m)	(Kg**m)	Kg/cm2	Kg/cm2	Kg/cm2					O						
12	0.00 p	-8138	66	54	-7.4	-14.4	-124.1	-203.3	112.1	3600.0	v	9						
	1.78 m	-7861	-28	89	-7.2	-13.9	-119.5	-196.8	112.1	3600.0	v	9						
	3.55 t	-7584	-123	125	-3.0	-17.3	-71.2	-233.9	112.1	3600.0	v	9						

=====	VERIFICA	TENSIONI	MAX	CLS	ACCIAIO	COMB.	SLE	PERM.	PILASTRATA	3	x=	6.38	y=	0.00	=====	C
ELEM.	quota	N	M2	M3	SCmax	SCmin	SFmax	SFmin	Scamm	Sfamm	COD.	S	O	B	A	M
	(m)	(Kg)	(Kg**m)	(Kg**m)	Kg/cm2	Kg/cm2	Kg/cm2	Kg/cm2								
11	0.00 p	-4111	70	-56	-1.9	-9.1	-41.5	-123.9	112.1	3600.0	v	9				
	1.78 m	-3834	-41	100	-1.1	-9.2	-30.9	-123.3	112.1	3600.0	v	9				
	3.55 t	-3556	-151	256	0.0	-18.4	104.9	-223.6	112.1	3600.0	v	9				

=== VERIFICA TENSIONI MAX CLS, ACCIAIO COMB.SLE PERM.PILASTRATA												
ELEM.	quota	N	M2	M3	SCmax	SCmin	SFmax	SFmin	Scamm	Sfamm	4 x=	0.00 y=
	(m)	(Kg)	(Kg**m)	(Kg**m)	Kg/cm2	Kg/cm2	Kg/cm2	Kg/cm2				4.15 =====
8	0.00 p	-4991	-100	56	-2.2	-11.2	-49.3	-151.5	112.1	3600.0	v	9
	1.78 m	-4713	105	-102	-0.4	-12.3	-27.0	-162.6	112.1	3600.0	v	9
	3.55 t	-4436	310	-259	0.0	-25.5	171.9	-307.4	112.1	3600.0	v	9

=====	VERIFICA	TENSIONI	MAX	CLS	ACCIAIO	COMB.	SLE	PERM.	PILASTRATA	5	x=	3.56	y=	4.15	=====	C
ELEM.	quota	N	M2	M3	SCmax	SCmin	SFmax	SFmin	Scamm	Sfamm	COD.	S	O	B		
	(m)	(Kg)	(Kg*m)	(Kg*m)	Kg/cm2	Kg/cm2	Kg/cm2	Kg/cm2								
9	0.00 p	-8137	66	-57	-7.4	-14.5	-123.1	-204.3	112.1	3600.0	V					
	1.78 m	-7860	-28	-91	-7.1	-14.0	-119.1	-197.2	112.1	3600.0	V					
	3.55 t	-7583	-123	-124	-3.1	-17.3	-71.5	-233.6	112.1	3600.0	V					

=== VERIFICA TENSIONI MAX CLS,ACCIAIO COMB.SLE PERM.PILASTRATA										6	x=	6.38	y=	4.15	=====	C
ELEM.	quota	N	M2	M3	SCmax	SCmin	SFmax	SFmin	Scamm	Sfamm	COD.	S	M	O	B	C
	(m)	(Kg)	(Kg*m)	(Kg*m)	Kg/cm2	Kg/cm2	Kg/cm2	Kg/cm2								
10	0.00 p	-4112	70	57	-1.9	-9.2	-41.0	-124.4	112.1	3600.0	v					9
	1.78 m	-3834	-41	-100	-1.1	-9.2	-31.0	-123.3	112.1	3600.0	v					9

LEGENDA TABELLA VERIFICA A TAGLIO PILASTRI IN C.A. NTC 2008 p.to 7.4.4.2.1 :

Pil. n. : numero della pilastrata
 Elem. n. : numero dell'elemento pilastro in c.a.
 comb./perm.: numero della combinazione di carico (oppure della permutazione nel caso di analisi dinamica)
 sisma : numero del sisma di progetto (nel caso di analisi dinamica)
 GammaRD : coeff. = 1,3 per CDA, coeff = 1,1 per CDB
 Mri : momento resistente del pilastro nel nodo I (nodo Inf. a quota minore)
 Mrj : momento resistente del pilastro nel nodo J (nodo Sup. a quota maggiore)
 N : forza assiale nel pilastro (negativa = compressione) a quota Inf.,Med.,Sup.
 lp : lunghezza del pilastro
 Ved2 : taglio sollecitante in dir. asse locale 2 del pilastro
 Ved3 : taglio sollecitante in dir. asse locale 3 del pilastro
 l, diam, s : tratti di staffatura: lunghezza, diametro e passo staffe per i 3 tratti, piede, mezzeria e testa del pilastro
 alfac : coeff. migliorativo resistenza a taglio cls per effetto della forza assiale p.to 4.1.2.1.3.2
 teta2,teta3: angolo d'inclinazione delle bielle compresse di cls rispetto all'asse del pilastro
 cotg_teta2 : cotangente dell'angolo teta2 (posto = 2,5 se l'angolo teta2 e' < 21°,80)
 cotg_teta3 : cotangente dell'angolo teta3 (posto = 2,5 se l'angolo teta3 e' < 21°,80)
 n.b. se l'angolo teta2 (o teta3) e' < 21°,80 il collasso avviene lato acciaio con bielle compresse ancora integre (rottura duttile)
 V2r : taglio resistente in dir. asse locale 2 del pilastro
 V3r : taglio resistente in dir. asse locale 3 del pilastro
 Cod. : nv = non verificato, i.e. V2r < Ved2 e/o V3r < Ved3

Pil Elem Sisma comb. / n. n.		GammaRD*(Mri+Mrj)/lp		Staffe		alfac teta2 teta3		cotg teta2 teta3		Taglio resistente		Cod.		
n.	n.	perm.	Ved2 (Kg)	Ved3 (Kg)	N (kg)	l (cm)	diam (mm)	s (cm)	(gradi)		V2r (Kg)	V3r (Kg)		
1	13	1	134	197	-7874	59.2	8	12	1.09	24.4 24.4	2.2	2.2	14310	14310
					-7513	236.7	8	18	1.09	19.7 19.7	2.5	2.5	10818	10818
1	13	2	139	208	-7153	59.2	8	12	1.08	24.5 24.5	2.2	2.2	14245	14245
					-8195	59.2	8	12	1.09	24.4 24.4	2.2	2.2	14339	14339
					-7834	236.7	8	18	1.09	19.7 19.7	2.5	2.5	10818	10818
1	13	3	108	163	-7474	59.2	8	12	1.08	24.5 24.5	2.2	2.2	14274	14274
					-6382	59.2	8	12	1.07	24.6 24.6	2.2	2.2	14176	14176
					-6104	236.7	8	18	1.07	19.9 19.9	2.5	2.5	10818	10818
					-5827	59.2	8	12	1.07	24.7 24.7	2.2	2.2	14125	14125
1	13	4	112	172	-6660	59.2	8	12	1.08	24.6 24.6	2.2	2.2	14201	14201
					-6383	236.7	8	18	1.07	19.9 19.9	2.5	2.5	10818	10818
					-6105	59.2	8	12	1.07	24.6 24.6	2.2	2.2	14150	14150
1	13	1	1609	2136	-3470	59.2	8	12	1.04	25.0 25.0	2.1	2.1	13909	13909
					-3208	236.7	8	18	1.04	20.2 20.2	2.5	2.5	10818	10818
					-2916	59.2	8	12	1.03	25.1 25.1	2.1	2.1	13858	13858
1	13	1	1691	2304	-6510	59.2	8	12	1.07	24.6 24.6	2.2	2.2	14187	14187
					-6247	236.7	8	18	1.07	19.9 19.9	2.5	2.5	10818	10818
					-5955	59.2	8	12	1.07	24.7 24.7	2.2	2.2	14137	14137
1	13	2	2086	1274	-3204	59.2	8	12	1.04	25.1 25.1	2.1	2.1	13884	13884
					-2941	236.7	8	18	1.03	20.3 20.3	2.5	2.5	10818	10818

1	13	2	5	2268	1418	-2650	59.2	8	12	1.03	25.1	25.1	2.1	2.1	13833
						-6776	59.2	8	12	1.08	24.5	24.5	2.2	2.2	14211
						-6513	236.7	8	18	1.07	19.9	19.9	2.5	2.5	10818
						-6221	59.2	8	12	1.07	24.6	24.6	2.2	2.2	14161
2	12	1	1	29	89	-13190	59.2	8	12	1.15	23.7	23.7	2.3	2.3	14780
						-12830	236.7	8	18	1.15	19.2	19.2	2.5	2.5	10818
						-12469	59.2	8	12	1.14	23.8	23.8	2.3	2.3	14717
2	12	2	2	29	93	-13798	59.2	8	12	1.16	23.6	23.6	2.3	2.3	14833
						-13437	236.7	8	18	1.15	19.1	19.1	2.5	2.5	10818
						-13077	59.2	8	12	1.15	23.7	23.7	2.3	2.3	14770
2	12	3	3	23	73	-10759	59.2	8	12	1.12	24.0	24.0	2.2	2.2	14567
						-10481	236.7	8	18	1.12	19.4	19.4	2.5	2.5	10818
						-10204	59.2	8	12	1.12	24.1	24.1	2.2	2.2	14518
2	12	4	4	23	77	-11285	59.2	8	12	1.13	23.9	23.9	2.3	2.3	14613
						-11008	236.7	8	18	1.12	19.4	19.4	2.5	2.5	10818
						-10731	59.2	8	12	1.12	24.0	24.0	2.2	2.2	14564
2	12	1	1	1646	2388	-7804	59.2	8	12	1.09	24.4	24.4	2.2	2.2	14304
						-7542	236.7	8	18	1.09	19.7	19.7	2.5	2.5	10818
						-7250	59.2	8	12	1.08	24.5	24.5	2.2	2.2	14254
2	12	1	5	1665	2437	-8473	59.2	8	12	1.10	24.3	24.3	2.2	2.2	14364
						-8210	236.7	8	18	1.09	19.7	19.7	2.5	2.5	10818
						-7918	59.2	8	12	1.09	24.4	24.4	2.2	2.2	14314
2	12	2	1	2334	2148	-7768	59.2	8	12	1.09	24.4	24.4	2.2	2.2	14301
						-7505	236.7	8	18	1.09	19.8	19.8	2.5	2.5	10818
2	12	2	5	2369	2186	-7213	59.2	8	12	1.08	24.5	24.5	2.2	2.2	14251
						-8509	59.2	8	12	1.10	24.3	24.3	2.2	2.2	14367
						-8246	236.7	8	18	1.09	19.7	19.7	2.5	2.5	10818
						-7954	59.2	8	12	1.09	24.4	24.4	2.2	2.2	14317
3	11	1	1	134	109	-6429	59.2	8	12	1.07	24.6	24.6	2.2	2.2	14180
						-6068	236.7	8	18	1.07	19.9	19.9	2.5	2.5	10818
						-5708	59.2	8	12	1.06	24.7	24.7	2.2	2.2	14114
3	11	2	2	139	115	-6679	59.2	8	12	1.08	24.6	24.6	2.2	2.2	14202
						-6319	236.7	8	18	1.07	19.9	19.9	2.5	2.5	10818
						-5958	59.2	8	12	1.07	24.7	24.7	2.2	2.2	14137
3	11	3	3	108	90	-5199	59.2	8	12	1.06	24.8	24.8	2.2	2.2	14068
						-4922	236.7	8	18	1.06	20.0	20.0	2.5	2.5	10818
						-4644	59.2	8	12	1.05	24.8	24.8	2.2	2.2	14017
3	11	4	4	112	96	-5416	59.2	8	12	1.06	24.7	24.7	2.2	2.2	14088
						-5139	236.7	8	18	1.06	20.0	20.0	2.5	2.5	10818
						-4862	59.2	8	12	1.06	24.8	24.8	2.2	2.2	14037
3	11	1	1	1682	2077	-2365	59.2	8	12	1.03	25.2	25.2	2.1	2.1	13807
						-2102	236.7	8	18	1.02	20.4	20.4	2.5	2.5	10818
						-1810	59.2	8	12	1.02	25.3	25.3	2.1	2.1	13755
3	11	1	5	1788	2258	-5857	59.2	8	12	1.07	24.7	24.7	2.2	2.2	14128
						-5594	236.7	8	18	1.06	20.0	20.0	2.5	2.5	10818
						-5303	59.2	8	12	1.06	24.8	24.8	2.2	2.2	14077
3	11	2	1	2060	1690	-2322	59.2	8	12	1.03	25.2	25.2	2.1	2.1	13803
						-2059	236.7	8	18	1.02	20.4	20.4	2.5	2.5	10818
						-1768	59.2	8	12	1.02	25.3	25.3	2.1	2.1	13751
3	11	2	5	2266	1781	-5900	59.2	8	12	1.07	24.7	24.7	2.2	2.2	14132
						-5637	236.7	8	18	1.06	20.0	20.0	2.5	2.5	10818
4	8	1	1	135	197	-5345	59.2	8	12	1.06	24.7	24.7	2.2	2.2	14081
						-7875	59.2	8	12	1.09	24.4	24.4	2.2	2.2	14310

4	4	8	2	140	208	-7515 236.7	8	18	1.09	19.7	19.7	2.5	2.5	10818
						-7154 59.2	8	12	1.08	24.5	24.5	2.2	2.2	14245
						-8196 59.2	8	12	1.09	24.4	24.4	2.2	2.2	14339
						-7836 236.7	8	18	1.09	19.7	19.7	2.5	2.5	10818
4	4	8	3	109	163	-7475 59.2	8	12	1.08	24.5	24.5	2.2	2.2	14274
						-6383 59.2	8	12	1.07	24.6	24.6	2.2	2.2	14176
						-6105 236.7	8	18	1.07	19.9	19.9	2.5	2.5	10818
4	4	8	4	113	173	-5828 59.2	8	12	1.07	24.7	24.7	2.2	2.2	14125
						-6661 59.2	8	12	1.08	24.6	24.6	2.2	2.2	14201
						-6384 236.7	8	18	1.07	19.9	19.9	2.5	2.5	10818
4	4	8	1	1598	2140	-6106 59.2	8	12	1.07	24.6	24.6	2.2	2.2	14151
						-3472 59.2	8	12	1.04	25.0	25.0	2.1	2.1	13909
						-3209 236.7	8	18	1.04	20.2	20.2	2.5	2.5	10818
4	4	8	1	1679	2310	-2917 59.2	8	12	1.03	25.1	25.1	2.1	2.1	13858
						-6510 59.2	8	12	1.07	24.6	24.6	2.2	2.2	14187
						-6247 236.7	8	18	1.07	19.9	19.9	2.5	2.5	10818
						-5955 59.2	8	12	1.07	24.7	24.7	2.2	2.2	14137
4	4	8	2	2085	1414	-3206 59.2	8	12	1.04	25.1	25.1	2.1	2.1	13885
						-2944 236.7	8	18	1.03	20.3	20.3	2.5	2.5	10818
4	4	8	2	2267	1538	-2652 59.2	8	12	1.03	25.1	25.1	2.1	2.1	13833
						-6775 59.2	8	12	1.08	24.5	24.5	2.2	2.2	14211
						-6512 236.7	8	18	1.07	19.9	19.9	2.5	2.5	10818
5	5	9	1	27	89	-6220 59.2	8	12	1.07	24.6	24.6	2.2	2.2	14161
						-13188 59.2	8	12	1.15	23.7	23.7	2.3	2.3	14780
						-12827 236.7	8	18	1.15	19.2	19.2	2.5	2.5	10818
5	5	9	2	28	93	-12467 59.2	8	12	1.14	23.8	23.8	2.3	2.3	14717
						-13795 59.2	8	12	1.16	23.6	23.6	2.3	2.3	14832
						-13435 236.7	8	18	1.15	19.1	19.1	2.5	2.5	10818
5	5	9	3	21	73	-13074 59.2	8	12	1.15	23.7	23.7	2.3	2.3	14770
						-10757 59.2	8	12	1.12	24.0	24.0	2.2	2.2	14567
						-10479 236.7	8	18	1.12	19.4	19.4	2.5	2.5	10818
5	5	9	4	22	77	-10202 59.2	8	12	1.12	24.1	24.1	2.2	2.2	14518
						-11283 59.2	8	12	1.13	23.9	23.9	2.3	2.3	14613
						-11006 236.7	8	18	1.12	19.4	19.4	2.5	2.5	10818
5	5	9	1	1633	2390	-10728 59.2	8	12	1.12	24.0	24.0	2.2	2.2	14564
						-7801 59.2	8	12	1.09	24.4	24.4	2.2	2.2	14304
						-7538 236.7	8	18	1.09	19.7	19.7	2.5	2.5	10818
5	5	9	1	1652	2441	-7246 59.2	8	12	1.08	24.5	24.5	2.2	2.2	14254
						-8474 59.2	8	12	1.10	24.3	24.3	2.2	2.2	14364
						-8211 236.7	8	18	1.09	19.7	19.7	2.5	2.5	10818
5	5	9	2	2332	2207	-7919 59.2	8	12	1.09	24.4	24.4	2.2	2.2	14314
						-7767 59.2	8	12	1.09	24.4	24.4	2.2	2.2	14301
						-7504 236.7	8	18	1.09	19.8	19.8	2.5	2.5	10818
5	5	9	2	2368	2246	-7212 59.2	8	12	1.08	24.5	24.5	2.2	2.2	14251
						-8508 59.2	8	12	1.10	24.3	24.3	2.2	2.2	14367
						-8245 236.7	8	18	1.09	19.7	19.7	2.5	2.5	10818
6	6	10	1	135	109	-7954 59.2	8	12	1.09	24.4	24.4	2.2	2.2	14317
						-6430 59.2	8	12	1.07	24.6	24.6	2.2	2.2	14180
						-6070 236.7	8	18	1.07	19.9	19.9	2.5	2.5	10818
6	6	10	2	140	115	-5709 59.2	8	12	1.06	24.7	24.7	2.2	2.2	14114
						-6681 59.2	8	12	1.08	24.6	24.6	2.2	2.2	14203
						-6320 236.7	8	18	1.07	19.9	19.9	2.5	2.5	10818
						-5960 59.2	8	12	1.07	24.7	24.7	2.2	2.2	14137

6	10	3	109	90	-5201	59.2	8	12	1.06	24.8	24.8	24.8	2.2	2.2	14068
					-4923	236.7	8	18	1.06	20.0	20.0	20.0	2.5	2.5	10818
					-4646	59.2	8	12	1.05	24.8	24.8	24.8	2.2	2.2	14017
6	10	4	113	96	-5418	59.2	8	12	1.06	24.7	24.7	24.7	2.2	2.2	14088
					-5140	236.7	8	18	1.06	20.0	20.0	20.0	2.5	2.5	10818
					-4863	59.2	8	12	1.06	24.8	24.8	24.8	2.2	2.2	14037
6	10	1	1673	2077	-2374	59.2	8	12	1.03	25.2	25.2	25.2	2.1	2.1	13807
					-2111	236.7	8	18	1.02	20.4	20.4	20.4	2.5	2.5	10818
					-1819	59.2	8	12	1.02	25.3	25.3	25.3	2.1	2.1	13756
6	10	1	1776	2266	-5850	59.2	8	12	1.07	24.7	24.7	24.7	2.2	2.2	14127
					-5587	236.7	8	18	1.06	20.0	20.0	20.0	2.5	2.5	10818
					-5295	59.2	8	12	1.06	24.8	24.8	24.8	2.2	2.2	14077
6	10	2	2060	1771	-2322	59.2	8	12	1.03	25.2	25.2	25.2	2.1	2.1	13803
					-2060	236.7	8	18	1.02	20.4	20.4	20.4	2.5	2.5	10818
					-1768	59.2	8	12	1.02	25.3	25.3	25.3	2.1	2.1	13751
6	10	2	2265	1885	-5901	59.2	8	12	1.07	24.7	24.7	24.7	2.2	2.2	14132
					-5638	236.7	8	18	1.06	20.0	20.0	20.0	2.5	2.5	10818
					-5346	59.2	8	12	1.06	24.7	24.7	24.7	2.2	2.2	14081

3. RISULTATI ANALISI DINAMICA

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*
*                               CIVILSOFT v.windows 6.997
*
*      progettazione interattiva di strutture civili ed industriali
*
*
* prodotto e distribuito da ASG srl PIACENZA Tel 0523/337389 Fax 0523/337071
*
*
*****
*
*                               RELAZIONE DI CALCOLO
*
* -Dati
*   -Masse nodali, Periodi propri, Coeff. partecipazione, Spettro risposta
* -Risultati
*   -Spostamenti e Rotazioni modali
*
*****
```

```
Normativa sismica          : NTC 14/01/2008
N.ro modi                   :          10
Quota fondazioni (zero sismico) :          0.00
Angolo ingresso sisma dir.1-Asse x :          0.0
Angolo ingresso sisma dir.2-Asse x :          90.0
Categoria suolo             :          C
Zona topografica           :          1
Coeff. smorzamento         :          5.00
Coeff. struttura 'q' per SLU comp.oriz.:          1.60
Coeff. struttura 'q' per SLU comp.vert.:          1.50
ag per SLU                  :          0.074 (g)
F0 per SLU                  :          2.531
Tc* per SLU                 :          0.290 sec.
ag per SLE                  :          0.031 (g)
F0 per SLE                  :          2.472
Tc* per SLE                 :          0.200 sec.
```

MODI PROPRI DI VIBRAZIONE

MODO n.ro	FREQUENZE (Hertz)	PERIODO PROPRIO (sec)
1	2.53492	0.39449
2	2.68491	0.37245
3	2.88434	0.34670
4	21.07969	0.04744
5	21.99845	0.04546
6	22.59642	0.04425
7	23.86902	0.04190
8	29.09509	0.03437
9	29.81293	0.03354
10	78.72795	0.01270

TABELLA DATI MASSE NODALI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella DATI MASSE NODALI.

Per ogni nodo non completamente vincolato sono elencati, i valori delle masse traslazionali utilizzati nell' analisi dinamica modale. Le masse sono espresse in unita' di forza (ad es. Kg-forza).

NODO numero del nodo di applicazione della massa

n.ro	
X	coordinata cartesiana X del nodo
Y	coordinata cartesiana Y del nodo
Z	coordinata cartesiana Z del nodo
Fx	massa traslazionale in direzione X
Fy	' ' ' ' Y
Fz	' ' ' ' Z

=====

DATI DI INGRESSO : MASSE NODALI IN UNITA' DI FORZA

=====

NODO n.ro	X (cm)	Y (cm)	Z (cm)	Fx (Kg)	Fy (Kg)	Fz (Kg)
7	0.00	415.00	355.00	-7912.2	-7917.5	-6077.2
8	355.50	415.00	355.00	-9422.0	-7464.6	-7236.7
9	638.00	415.00	355.00	-6875.5	-6850.2	-5280.9
10	638.00	0.00	355.00	-6854.7	-6850.2	-5280.9
11	355.50	0.00	355.00	-9393.5	-7464.6	-7236.7
12	0.00	0.00	355.00	-7888.3	-7917.5	-6077.2

MASSA TOTALE (IN UNITA' DI FORZA) = 37189.5 Kg

MASSA TOTALE DIR. X (IN UNITA' DI FORZA) = 48346.3 Kg

MASSA TOTALE DIR. Y (IN UNITA' DI FORZA) = 44464.6 Kg

MASSA TOTALE DIR. Z (IN UNITA' DI FORZA) = 37189.5 Kg

=====

COEFFICIENTI DI PARTECIPAZIONE MODALI

=====

MODO n.ro	DIREZIONE X	DIREZIONE Y	DIREZIONE Z
1	-0.00731	-6.67836	0.00004
2	-7.01841	0.01176	-0.00304
3	0.04061	0.83063	0.00000
4	-0.00279	0.10975	0.01574
5	0.00386	0.14732	-0.03959
6	0.13329	-0.00189	-2.45373
7	0.06051	-0.00009	5.58205
8	0.03730	0.00192	-0.85165
9	-0.00195	0.03826	0.05084
10	0.00000	0.00082	-0.00002

=====

MASSA ECCITATA MODALE

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MODO n.ro	PERC.MASSA ECCITATA		
	DIR.X	DIR.Y	DIR.Z
1	0.0	98.4	0.0
2	100.0	0.0	0.0
3	0.0	1.5	0.0
4	0.0	0.0	0.0
5	0.0	0.0	0.0
6	0.0	0.0	15.9
7	0.0	0.0	82.2
8	0.0	0.0	1.9
9	0.0	0.0	0.0
10	0.0	0.0	0.0

MASSA ECCITATA IN DIREZIONE X =	49.3 Kgsec2/cm	%MASSA TOTALE X = 100.0
MASSA ECCITATA IN DIREZIONE Y =	45.3 Kgsec2/cm	%MASSA TOTALE Y = 100.0
MASSA ECCITATA IN DIREZIONE Z =	37.9 Kgsec2/cm	%MASSA TOTALE Z = 100.0

=====

TABELLA SPETTRO DI RISPOSTA S.L.U.

=====

PUNTO n.ro	PERIODO (sec)	a/g
1	0.00	0.11100
2	0.05	0.13027
3	0.09	0.14953
4	0.14	0.16880
5	0.18	0.17559
6	0.23	0.17559
7	0.27	0.17559
8	0.32	0.17559
9	0.36	0.17559
10	0.41	0.17559
11	0.46	0.17559
12	0.50	0.16053
13	0.55	0.14715
14	0.59	0.13583
15	0.64	0.12613
16	0.68	0.11772
17	0.73	0.11036
18	0.77	0.10387
19	0.82	0.09810
20	0.87	0.09294
21	0.91	0.08829
22	0.96	0.08409
23	1.00	0.08027
24	1.05	0.07678
25	1.09	0.07358
26	1.14	0.07063
27	1.18	0.06792
28	1.23	0.06540
29	1.28	0.06307
30	1.32	0.06089
31	1.37	0.05886
32	1.41	0.05696
33	1.46	0.05518
34	1.50	0.05351
35	1.55	0.05194
36	1.59	0.05045
37	1.64	0.04905
38	1.69	0.04773
39	1.73	0.04647
40	1.78	0.04528
41	1.82	0.04415
42	1.87	0.04307
43	1.91	0.04166
44	1.96	0.03975
45	2.00	0.03796
46	2.05	0.03629
47	2.10	0.03473
48	2.14	0.03327
49	2.19	0.03190
50	2.23	0.03061
51	2.28	0.02940
52	2.32	0.02826
53	2.37	0.02718
54	2.41	0.02616
55	2.46	0.02520
56	2.51	0.02430
57	2.55	0.02344
58	2.60	0.02262
59	2.64	0.02185
60	2.69	0.02111
61	2.73	0.02041

62	2.78	0.01975
63	2.82	0.01912
64	2.87	0.01852
65	2.92	0.01794
66	2.96	0.01739
67	3.01	0.01687
68	3.05	0.01637
69	3.10	0.01589
70	3.14	0.01544
71	3.19	0.01500
72	3.23	0.01480
73	3.28	0.01480
74	3.33	0.01480
75	3.37	0.01480
76	3.42	0.01480
77	3.46	0.01480
78	3.51	0.01480
79	3.55	0.01480
80	3.60	0.01480
81	3.64	0.01480
82	3.69	0.01480
83	3.74	0.01480
84	3.78	0.01480
85	3.83	0.01480
86	3.87	0.01480
87	3.92	0.01480
88	3.96	0.01480
89	4.01	0.01480
90	4.05	0.01480

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TABELLA SPETTRO DI RISPOSTA S.L.D.

=====

PUNTO n.ro	PERIODO (sec)	a/g
1	0.00	0.04650
2	0.05	0.07269
3	0.09	0.09888
4	0.14	0.11495
5	0.18	0.11495
6	0.23	0.11495
7	0.27	0.11495
8	0.32	0.11495
9	0.36	0.11265
10	0.41	0.10014
11	0.46	0.09012
12	0.50	0.08193
13	0.55	0.07510
14	0.59	0.06933
15	0.64	0.06437
16	0.68	0.06008
17	0.73	0.05633
18	0.77	0.05301
19	0.82	0.05007
20	0.87	0.04743
21	0.91	0.04506
22	0.96	0.04292
23	1.00	0.04097
24	1.05	0.03918
25	1.09	0.03755
26	1.14	0.03605
27	1.18	0.03466
28	1.23	0.03338
29	1.28	0.03219
30	1.32	0.03108
31	1.37	0.03004
32	1.41	0.02907

33	1.46	0.02816
34	1.50	0.02731
35	1.55	0.02651
36	1.59	0.02575
37	1.64	0.02503
38	1.69	0.02436
39	1.73	0.02362
40	1.78	0.02242
41	1.82	0.02132
42	1.87	0.02029
43	1.91	0.01933
44	1.96	0.01845
45	2.00	0.01762
46	2.05	0.01684
47	2.10	0.01612
48	2.14	0.01544
49	2.19	0.01480
50	2.23	0.01421
51	2.28	0.01364
52	2.32	0.01311
53	2.37	0.01261
54	2.41	0.01214
55	2.46	0.01170
56	2.51	0.01127
57	2.55	0.01088
58	2.60	0.01050
59	2.64	0.01014
60	2.69	0.00980
61	2.73	0.00947
62	2.78	0.00917
63	2.82	0.00887
64	2.87	0.00859
65	2.92	0.00833
66	2.96	0.00807
67	3.01	0.00783
68	3.05	0.00760
69	3.10	0.00738
70	3.14	0.00716
71	3.19	0.00696
72	3.23	0.00677
73	3.28	0.00658
74	3.33	0.00640
75	3.37	0.00623
76	3.42	0.00606
77	3.46	0.00590
78	3.51	0.00575
79	3.55	0.00561
80	3.60	0.00546
81	3.64	0.00533
82	3.69	0.00520
83	3.74	0.00507
84	3.78	0.00495
85	3.83	0.00483
86	3.87	0.00472
87	3.92	0.00461
88	3.96	0.00451
89	4.01	0.00440
90	4.05	0.00431

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TABELLA SPETTRO DI RISPOSTA VERTICALE S.L.U.

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PUNTO n.ro	PERIODO (sec)	a/g
1	0.00	0.02718
2	0.05	0.04419

3	0.09	0.04585
4	0.14	0.04585
5	0.18	0.03775
6	0.23	0.03020
7	0.27	0.02516
8	0.32	0.02157
9	0.36	0.01887
10	0.41	0.01678
11	0.46	0.01510
12	0.50	0.01480
13	0.55	0.01480
14	0.59	0.01480
15	0.64	0.01480
16	0.68	0.01480
17	0.73	0.01480
18	0.77	0.01480
19	0.82	0.01480
20	0.87	0.01480
21	0.91	0.01480
22	0.96	0.01480
23	1.00	0.01480
24	1.05	0.01480
25	1.09	0.01480
26	1.14	0.01480
27	1.18	0.01480
28	1.23	0.01480
29	1.28	0.01480
30	1.32	0.01480
31	1.37	0.01480
32	1.41	0.01480
33	1.46	0.01480
34	1.50	0.01480
35	1.55	0.01480
36	1.59	0.01480
37	1.64	0.01480
38	1.69	0.01480
39	1.73	0.01480
40	1.78	0.01480
41	1.82	0.01480
42	1.87	0.01480
43	1.91	0.01480
44	1.96	0.01480
45	2.00	0.01480
46	2.05	0.01480
47	2.10	0.01480
48	2.14	0.01480
49	2.19	0.01480
50	2.23	0.01480
51	2.28	0.01480
52	2.32	0.01480
53	2.37	0.01480
54	2.41	0.01480
55	2.46	0.01480
56	2.51	0.01480
57	2.55	0.01480
58	2.60	0.01480
59	2.64	0.01480
60	2.69	0.01480
61	2.73	0.01480
62	2.78	0.01480
63	2.82	0.01480
64	2.87	0.01480
65	2.92	0.01480
66	2.96	0.01480
67	3.01	0.01480
68	3.05	0.01480
69	3.10	0.01480
70	3.14	0.01480

71	3.19	0.01480
72	3.23	0.01480
73	3.28	0.01480
74	3.33	0.01480
75	3.37	0.01480
76	3.42	0.01480
77	3.46	0.01480
78	3.51	0.01480
79	3.55	0.01480
80	3.60	0.01480
81	3.64	0.01480
82	3.69	0.01480
83	3.74	0.01480
84	3.78	0.01480
85	3.83	0.01480
86	3.87	0.01480
87	3.92	0.01480
88	3.96	0.01480
89	4.01	0.01480
90	4.05	0.01480

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TABELLA SPETTRO DI RISPOSTA VERTICALE S.L.D.

=====

PUNTO n.ro	PERIODO (sec)	a/g
1	0.00	0.00737
2	0.05	0.01725
3	0.09	0.01821
4	0.14	0.01821
5	0.18	0.01499
6	0.23	0.01200
7	0.27	0.01000
8	0.32	0.00857
9	0.36	0.00750
10	0.41	0.00666
11	0.46	0.00600
12	0.50	0.00545
13	0.55	0.00500
14	0.59	0.00461
15	0.64	0.00428
16	0.68	0.00400
17	0.73	0.00375
18	0.77	0.00353
19	0.82	0.00333
20	0.87	0.00316
21	0.91	0.00300
22	0.96	0.00286
23	1.00	0.00272
24	1.05	0.00249
25	1.09	0.00229
26	1.14	0.00211
27	1.18	0.00195
28	1.23	0.00181
29	1.28	0.00168
30	1.32	0.00157
31	1.37	0.00146
32	1.41	0.00137
33	1.46	0.00129
34	1.50	0.00121
35	1.55	0.00114
36	1.59	0.00107
37	1.64	0.00102
38	1.69	0.00096
39	1.73	0.00091
40	1.78	0.00087
41	1.82	0.00082

42	1.87	0.00078
43	1.91	0.00075
44	1.96	0.00071
45	2.00	0.00068
46	2.05	0.00065
47	2.10	0.00062
48	2.14	0.00060
49	2.19	0.00057
50	2.23	0.00055
51	2.28	0.00053
52	2.32	0.00051
53	2.37	0.00049
54	2.41	0.00047
55	2.46	0.00045
56	2.51	0.00044
57	2.55	0.00042
58	2.60	0.00041
59	2.64	0.00039
60	2.69	0.00038
61	2.73	0.00037
62	2.78	0.00035
63	2.82	0.00034
64	2.87	0.00033
65	2.92	0.00032
66	2.96	0.00031
67	3.01	0.00030
68	3.05	0.00029
69	3.10	0.00028
70	3.14	0.00028
71	3.19	0.00027
72	3.23	0.00026
73	3.28	0.00025
74	3.33	0.00025
75	3.37	0.00024
76	3.42	0.00023
77	3.46	0.00023
78	3.51	0.00022
79	3.55	0.00022
80	3.60	0.00021
81	3.64	0.00021
82	3.69	0.00020
83	3.74	0.00020
84	3.78	0.00019
85	3.83	0.00019
86	3.87	0.00018
87	3.92	0.00018
88	3.96	0.00017
89	4.01	0.00017
90	4.05	0.00017

DESCRIZIONE TABELLA SPOSTAMENTI E ROTAZIONI NODALI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella SPOSTAMENTI E ROTAZIONI NODALI.

Relativamente ad ogni modo proprio di vibrazione estratto, vengono elencati per ogni nodo non completamente vincolato, i valori delle 6 componenti di spostamento (3 traslazioni e 3 rotazioni) riferite alla terna globale.

NODO : Numero identificativo del nodo
n.ro
Tx : spostamento del nodo in direzione X
Ty : ' ' ' ' ' Y
Tz : ' ' ' ' ' Z
Rx : rotazione del nodo intorno all' asse X
Ry : ' ' ' ' ' Y
Rz : ' ' ' ' ' Z

Nota : sistema di riferimento globale

Il sistema di riferimento impiegato, per nodi ed elementi e tutti
gli altri dati strutturali, e' una terna cartesiana XYZ destra.
Si assume che l' asse Z sia verticale ed orientato verso l'alto.

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RISULTATI : MODI PROPRI MODO 1 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000	0.0000	-0.0050	0.0020	-0.0008	0.0000
2	0.0000	0.0000	-0.0021	0.0021	0.0001	0.0000
3	0.0000	0.0000	-0.0048	0.0018	0.0008	0.0000
4	0.0000	0.0000	0.0048	0.0018	-0.0008	0.0000
5	0.0000	0.0000	0.0021	0.0021	-0.0001	0.0000
6	0.0000	0.0000	0.0050	0.0020	0.0008	0.0000
7	-0.0113	-0.1644	0.0056	0.0067	0.0003	0.0030
8	-0.0114	-0.1452	0.0022	0.0189	-0.0002	0.0030
9	-0.0114	-0.1299	0.0054	0.0059	-0.0010	0.0030
10	0.0111	-0.1299	-0.0054	0.0059	0.0009	0.0030
11	0.0111	-0.1452	-0.0022	0.0189	0.0002	0.0030
12	0.0111	-0.1644	-0.0056	0.0067	-0.0003	0.0030

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RISULTATI : MODI PROPRI MODO 2 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000	0.0000	-0.0037	0.0005	-0.0013	0.0000
2	0.0000	0.0000	-0.0001	-0.0000	-0.0006	0.0000
3	0.0000	0.0000	0.0042	-0.0005	-0.0016	0.0000
4	0.0000	0.0000	0.0042	0.0005	-0.0016	0.0000
5	0.0000	0.0000	-0.0001	0.0000	-0.0006	0.0000
6	0.0000	0.0000	-0.0037	-0.0005	-0.0013	0.0000
7	-0.1429	-0.0005	-0.0042	0.0001	-0.0052	0.0001
8	-0.1429	0.0004	-0.0002	-0.0001	-0.0013	0.0001
9	-0.1429	0.0011	0.0048	-0.0001	-0.0048	0.0001
10	-0.1419	0.0011	0.0048	0.0000	-0.0048	0.0001
11	-0.1419	0.0004	-0.0002	-0.0000	-0.0013	0.0001
12	-0.1419	-0.0005	-0.0042	-0.0000	-0.0052	0.0001

=====

RISULTATI : MODI PROPRI MODO 3 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000	0.0000	-0.0009	0.0006	0.0001	0.0000
2	0.0000	0.0000	0.0007	-0.0005	-0.0002	0.0000
3	0.0000	0.0000	0.0020	-0.0011	0.0000	0.0000
4	0.0000	0.0000	-0.0020	-0.0011	0.0000	0.0000
5	0.0000	0.0000	-0.0007	-0.0005	0.0002	0.0000
6	0.0000	0.0000	0.0010	0.0007	-0.0001	0.0000
7	-0.0893	-0.1191	0.0011	0.0031	-0.0024	0.0241
8	-0.0893	0.0355	-0.0008	-0.0045	-0.0001	0.0243
9	-0.0893	0.1584	-0.0022	-0.0050	-0.0019	0.0242
10	0.0912	0.1584	0.0022	-0.0050	0.0020	0.0242
11	0.0912	0.0355	0.0008	-0.0045	0.0001	0.0243
12	0.0912	-0.1191	-0.0010	0.0031	0.0025	0.0241

=====

RISULTATI : MODI PROPRI MODO 4 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000	0.0000	-0.2191	0.0593	-0.0391	-0.0000
2	0.0000	0.0000	-0.0285	0.0125	-0.0171	-0.0000
3	0.0000	0.0000	0.0463	-0.0113	-0.0131	-0.0000
4	0.0000	0.0000	-0.0504	-0.0127	0.0138	-0.0000
5	0.0000	0.0000	0.0277	0.0116	0.0177	-0.0000
6	0.0000	0.0000	0.2256	0.0612	0.0406	-0.0000
7	0.0007	0.0032	0.2795	0.0601	0.0300	-0.0002
8	0.0006	0.0023	0.0389	0.0080	0.0299	-0.0001
9	0.0006	0.0016	-0.0609	-0.0119	0.0115	-0.0002
10	-0.0008	0.0016	0.0559	-0.0121	-0.0110	-0.0002
11	-0.0007	0.0023	-0.0399	0.0078	-0.0288	-0.0001
12	-0.0008	0.0032	-0.2713	0.0603	-0.0287	-0.0002

=====

RISULTATI : MODI PROPRI MODO 5 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000	0.0000	-0.0247	0.0079	0.0052	0.0000
2	0.0000	0.0000	-0.0958	0.0315	0.0162	0.0000
3	0.0000	0.0000	-0.2105	0.0577	0.0281	0.0000
4	0.0000	0.0000	0.2163	0.0592	-0.0294	0.0000
5	0.0000	0.0000	0.0958	0.0310	-0.0173	0.0000
6	0.0000	0.0000	0.0150	0.0060	-0.0072	0.0000
7	-0.0004	0.0027	0.0193	0.0062	-0.0113	0.0001
8	-0.0004	0.0033	0.1323	0.0112	-0.0237	0.0001
9	-0.0005	0.0038	0.2644	0.0563	-0.0210	0.0001
10	0.0007	0.0038	-0.2573	0.0565	0.0199	0.0001
11	0.0006	0.0033	-0.1323	0.0111	0.0220	0.0001
12	0.0006	0.0027	-0.0318	0.0059	0.0096	0.0001

=====

RISULTATI : MODI PROPRI MODO 6 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000	0.0000	-0.2091	0.0277	-0.0452	0.0000
2	0.0000	0.0000	-0.0061	0.0039	-0.0189	0.0000
3	0.0000	0.0000	0.0843	-0.0107	-0.0190	-0.0000
4	0.0000	0.0000	0.0723	0.0077	-0.0172	-0.0000
5	0.0000	0.0000	-0.0098	-0.0049	-0.0175	-0.0000
6	0.0000	0.0000	-0.2032	-0.0265	-0.0437	-0.0000
7	0.0027	0.0000	-0.2644	0.0044	-0.0354	-0.0000
8	0.0027	-0.0000	-0.0157	0.0014	-0.0299	-0.0000
9	0.0028	-0.0001	0.0913	-0.0024	-0.0144	-0.0000
10	0.0027	-0.0000	0.1061	-0.0007	-0.0158	-0.0000
11	0.0027	-0.0000	-0.0105	-0.0018	-0.0320	0.0000
12	0.0026	-0.0001	-0.2720	-0.0028	-0.0368	0.0000

=====

RISULTATI : MODI PROPRI MODO 7 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000	0.0000	0.0513	-0.0095	-0.0002	-0.0000
2	0.0000	0.0000	0.0950	-0.0255	-0.0130	0.0000
3	0.0000	0.0000	0.1914	-0.0277	-0.0269	0.0000
4	0.0000	0.0000	0.1892	0.0272	-0.0265	-0.0000

5	0.0000	0.0000	0.0947	0.0258	-0.0127	-0.0000
6	0.0000	0.0000	0.0528	0.0097	0.0001	-0.0000
7	0.0013	-0.0000	0.0715	-0.0020	-0.0071	-0.0000
8	0.0012	-0.0000	0.1397	-0.0078	-0.0164	-0.0000
9	0.0012	-0.0000	0.2443	-0.0048	-0.0192	-0.0000
10	0.0012	0.0000	0.2470	0.0042	-0.0195	0.0000
11	0.0012	0.0000	0.1401	0.0077	-0.0168	0.0000
12	0.0013	0.0000	0.0695	0.0024	-0.0073	-0.0000

=====

RISULTATI : MODI PROPRI MODO 8 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000	0.0000	0.0389	-0.0024	0.0392	-0.0000
2	0.0000	0.0000	-0.1196	0.0180	-0.0106	0.0000
3	0.0000	0.0000	0.0997	-0.0089	-0.0597	0.0000
4	0.0000	0.0000	0.1112	0.0121	-0.0662	-0.0000
5	0.0000	0.0000	-0.1344	-0.0224	-0.0119	-0.0000
6	0.0000	0.0000	0.0437	0.0037	0.0434	0.0000
7	0.0010	0.0001	0.0643	0.0010	0.0668	0.0000
8	0.0007	0.0001	-0.2314	0.0057	-0.0220	-0.0000
9	0.0005	0.0000	0.1586	0.0013	-0.0903	-0.0000
10	0.0005	0.0000	0.1427	0.0023	-0.0816	0.0000
11	0.0007	-0.0000	-0.2062	-0.0032	-0.0196	0.0000
12	0.0010	0.0001	0.0575	0.0006	0.0604	-0.0000

=====

RISULTATI : MODI PROPRI MODO 9 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000	0.0000	-0.0455	0.0105	-0.0387	-0.0000
2	0.0000	0.0000	0.1314	-0.0198	0.0114	-0.0000
3	0.0000	0.0000	-0.1075	0.0257	0.0589	0.0000
4	0.0000	0.0000	0.0961	0.0255	-0.0520	0.0000
5	0.0000	0.0000	-0.1175	-0.0212	-0.0102	-0.0000
6	0.0000	0.0000	0.0409	0.0105	0.0341	-0.0000
7	0.0004	0.0011	0.0610	0.0153	0.0537	-0.0001
8	-0.0001	0.0007	-0.2079	0.0184	-0.0196	-0.0000
9	-0.0004	0.0008	0.1375	0.0329	-0.0723	0.0001
10	0.0004	0.0008	-0.1542	0.0328	0.0820	0.0001
11	-0.0000	0.0007	0.2328	0.0181	0.0220	-0.0000
12	-0.0005	0.0011	-0.0679	0.0152	-0.0609	-0.0001

=====

RISULTATI : MODI PROPRI MODO 10 : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx	Ty	Tz	Rx	Ry	Rz
1	0.0000	0.0000	-0.0001	-0.0001	-0.0006	-0.0001
2	0.0000	0.0000	0.0001	0.0008	0.0000	0.0000
3	0.0000	0.0000	-0.0001	-0.0001	0.0005	0.0001
4	0.0000	0.0000	0.0001	-0.0002	-0.0005	0.0001
5	0.0000	0.0000	-0.0001	0.0009	-0.0000	0.0000
6	0.0000	0.0000	0.0001	-0.0002	0.0006	-0.0001
7	0.1383	0.0606	-0.0002	-0.0009	0.0043	-0.0411
8	-0.0277	-0.1239	0.0004	0.0129	-0.0003	0.0082
9	-0.1528	0.0650	-0.0004	-0.0009	-0.0036	0.0460
10	0.1525	0.0650	0.0004	-0.0008	0.0036	0.0460
11	0.0276	-0.1239	-0.0005	0.0130	0.0003	0.0082
12	-0.1379	0.0606	0.0002	-0.0009	-0.0043	-0.0411

DESCRIZIONE TABELLA SPOSTAMENTI E ROTAZIONI NODALI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella SPOSTAMENTI E ROTAZIONI NODALI.

Relativamente ad ogni direzione del sisma esaminata, vengono elencati per ogni nodo non completamente vincolato, i valori delle 6 componenti di spostamento (3 traslazioni e 3 rotazioni) riferite alla terna globale, suddivise nei contributi dovuti ai singoli modi propri.

NODO : Numero identificativo del nodo

n.ro

Tx : spostamento del nodo in direzione X

Ty : ' ' ' ' ' Y

Tz : ' ' ' ' ' Z

Rx : rotazione del nodo intorno all' asse X

Ry : ' ' ' ' ' Y

Rz : ' ' ' ' ' Z

Nota : sistema di riferimento globale

Il sistema di riferimento impiegato, per nodi ed elementi e tutti gli altri dati strutturali, e' una terna cartesiana XYZ destra.

Si assume che l' asse Z sia verticale ed orientato verso l'alto.

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RISULTATI : SISMA DIR. 1 VALORI EFFICACI : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	0.0156	0.0020	0.0055	0.0000
2	0.0000	0.0000	0.0004	0.0001	0.0027	0.0000
3	0.0000	0.0000	0.0179	0.0023	0.0066	0.0000
4	0.0000	0.0000	0.0179	0.0023	0.0067	0.0000
5	0.0000	0.0000	0.0005	0.0001	0.0028	0.0000
6	0.0000	0.0000	0.0158	0.0020	0.0056	0.0000
7	0.6086	0.0035	0.0178	0.0003	0.0223	0.0008
8	0.6086	0.0018	0.0009	0.0003	0.0054	0.0008
9	0.6085	0.0056	0.0204	0.0004	0.0206	0.0008
10	0.6042	0.0057	0.0204	0.0002	0.0205	0.0008
11	0.6042	0.0018	0.0009	0.0002	0.0054	0.0008
12	0.6042	0.0035	0.0177	0.0002	0.0222	0.0008

=====

RISULTATI : SISMA DIR. 2 VALORI EFFICACI : SPOSTAMENTI E ROTAZIONI NODALI

=====

NODO n.ro	Tx (cm)	Ty (cm)	Tz (cm)	Rx (gradi)	Ry (gradi)	Rz (gradi)
1	0.0000	0.0000	0.0227	0.0091	0.0036	0.0000
2	0.0000	0.0000	0.0094	0.0095	0.0006	0.0000
3	0.0000	0.0000	0.0218	0.0084	0.0036	0.0000
4	0.0000	0.0000	0.0218	0.0083	0.0036	0.0000
5	0.0000	0.0000	0.0094	0.0096	0.0006	0.0000
6	0.0000	0.0000	0.0227	0.0091	0.0036	0.0000
7	0.0646	0.7492	0.0254	0.0305	0.0016	0.0172
8	0.0647	0.6603	0.0100	0.0860	0.0007	0.0174
9	0.0647	0.5945	0.0244	0.0270	0.0044	0.0173
10	0.0643	0.5945	0.0244	0.0270	0.0044	0.0173
11	0.0643	0.6603	0.0100	0.0861	0.0007	0.0174
12	0.0642	0.7492	0.0254	0.0305	0.0017	0.0172

Di seguito si riportano le spiegazioni delle sigle usate nella tabella SOLLECITAZIONI TRAVI E PILASTRI.

Oltre ai modi propri, calcolati con l'analisi dinamica modale, si considera un extra-modo (identificato con il numero: n.ro modi + 1) che contiene i cosiddetti 'valori efficaci' (i.e radice quadrata delle somma dei quadrati della sollecitazione considerata).

Per la descrizione delle convenzioni usate per il segno delle azioni interne, si rimanda alla documentazione fornita con il programma.

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RISULTATI : SISMA DIR. 1 VALORI EFFICACI : SOLLECITAZIONI TRAVI

=====

ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
1	0.00	0.0	396.6	0.8	155.9	1.6	2493.7
1	3.56	0.0	1671.3	0.8	155.9	1.2	1950.7
2	0.00	0.0	1479.1	1.1	199.9	1.4	756.4
2	2.83	0.0	363.2	1.1	199.9	1.8	2487.6
3	0.00	0.0	1473.5	0.8	3.7	1.6	189.3
3	4.15	0.0	1472.0	0.8	3.7	1.6	177.5
4	0.00	0.0	53.5	0.3	0.9	0.6	50.6
4	4.15	0.0	48.3	0.3	0.9	0.6	37.8
5	0.00	0.0	1687.0	0.7	3.0	1.4	231.0
5	4.15	0.0	1688.3	0.7	3.0	1.4	233.8
6	0.00	0.0	395.3	0.8	123.0	1.6	2505.1
6	3.56	0.0	1683.1	0.8	123.0	1.2	1960.1
7	0.00	0.0	1483.0	1.2	163.4	1.4	765.3
7	2.83	0.0	373.6	1.2	163.4	1.9	2500.7
14	0.00	6.4	1046.5	0.9	2.5	1.7	2330.4
14	3.56	6.4	1046.5	0.9	2.5	1.5	1390.0
15	0.00	39.2	1289.1	1.3	4.5	1.8	1289.5
15	2.83	39.2	1289.1	1.3	4.5	1.9	2352.1
16	0.00	4.7	8.3	0.8	1.9	1.6	14.3
16	4.15	4.7	8.3	0.8	1.9	1.6	28.4
17	0.00	8.5	15.2	0.7	1.6	1.4	19.4

17	4.15	8.5	15.2	0.7	1.6	1.4	44.5
18	0.00	7.0	1053.3	0.9	6.9	1.7	2345.2
18	3.56	7.0	1053.3	0.9	6.9	1.5	1399.2
19	0.00	40.1	1298.2	1.3	3.0	1.8	1299.7
19	2.83	40.1	1298.2	1.3	3.0	1.9	2367.8

=====

RISULTATI : SISMA DIR. 1 VALORI EFFICACI : SOLLECITAZIONI PILASTRI

=====

ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
8	0.00	1081.1	25.7	1367.6	3.2	2508.1	56.8
8	3.55	1081.1	25.7	1367.6	3.2	2346.9	34.4
9	0.00	247.6	4.1	1527.5	3.3	2724.1	9.2
9	3.55	247.6	4.1	1527.5	3.3	2698.5	5.3
10	0.00	1320.2	33.3	1372.5	3.3	2503.1	72.1
10	3.55	1320.2	33.3	1372.5	3.3	2369.3	46.2
11	0.00	1329.3	12.9	1362.4	3.3	2484.9	34.1
11	3.55	1329.3	12.9	1362.4	3.3	2351.7	15.9
12	0.00	245.0	3.5	1516.5	3.3	2704.5	7.1
12	3.55	245.0	3.5	1516.5	3.3	2679.2	5.4
13	0.00	1081.2	14.6	1357.8	3.2	2490.3	36.5
13	3.55	1081.2	14.6	1357.8	3.2	2329.9	15.9

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RISULTATI : SISMA DIR. 2 VALORI EFFICACI : SOLLECITAZIONI TRAVI

=====

ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
1	0.00	0.0	2159.8	15.7	55.7	31.8	849.3
1	3.56	0.0	604.5	15.7	55.7	24.2	1217.7
2	0.00	0.0	497.6	22.9	119.3	28.5	1060.2
2	2.83	0.0	1830.2	22.9	119.3	36.1	436.0
3	0.00	0.0	703.6	15.5	454.4	32.7	3105.4
3	4.15	0.0	703.5	15.5	454.4	31.6	3106.6
4	0.00	0.0	756.7	5.9	72.6	12.6	1930.3
4	4.15	0.0	765.5	5.9	72.6	11.9	1945.4
5	0.00	0.0	450.2	13.6	457.9	28.8	2541.7
5	4.15	0.0	441.9	13.6	457.9	27.8	2529.5
6	0.00	0.0	2158.2	16.2	49.5	32.9	852.4
6	3.56	0.0	604.0	16.2	49.5	24.6	1208.1
7	0.00	0.0	504.0	23.3	102.4	28.8	1045.7
7	2.83	0.0	1825.4	23.3	102.4	37.1	429.1
14	0.00	76.8	241.9	17.4	579.2	32.8	395.7
14	3.56	76.8	241.9	17.4	579.2	28.9	467.4
15	0.00	69.3	125.2	26.4	757.5	36.4	263.6
15	2.83	69.3	125.2	26.4	757.5	38.2	175.6
16	0.00	0.0	1653.9	15.2	33.4	31.6	3431.9
16	4.15	0.0	1653.9	15.2	33.4	31.6	3431.8

17	0.00	0.1	1451.4	12.9	82.3	26.7	3011.7
17	4.15	0.1	1451.4	12.9	82.3	26.7	3011.6
18	0.00	76.8	243.1	17.4	579.0	32.9	398.0
18	3.56	76.8	243.1	17.4	579.0	28.9	469.3
19	0.00	69.2	121.8	26.4	757.3	36.4	260.2
19	2.83	69.2	121.8	26.4	757.3	38.2	175.2

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RISULTATI : SISMA DIR. 2 VALORI EFFICACI : SOLLECITAZIONI PILASTRI

=====

ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
8	0.00	1459.7	1682.4	227.8	64.5	418.3	3090.6
8	3.55	1459.7	1682.4	227.8	64.5	390.3	2882.0
9	0.00	296.6	959.6	189.9	65.3	337.9	2072.5
9	3.55	296.6	959.6	189.9	65.3	336.2	1334.0
10	0.00	1393.2	1325.3	139.7	64.9	254.2	2444.9
10	3.55	1393.2	1325.3	139.7	64.9	241.6	2259.9
11	0.00	1389.9	1325.1	139.3	64.9	253.5	2444.5
11	3.55	1389.9	1325.1	139.3	64.9	241.0	2259.7
12	0.00	297.1	960.1	188.9	65.3	336.3	2073.9
12	3.55	297.1	960.1	188.9	65.3	334.5	1334.4
13	0.00	1461.3	1682.4	226.5	64.5	416.0	3090.6
13	3.55	1461.3	1682.4	226.5	64.5	388.2	2881.9

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RISULTATI : SISMA DIR. 1 VALORI EFFICACI : SOLLECITAZIONI ASTE

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
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RISULTATI : SISMA DIR. 2 VALORI EFFICACI : SOLLECITAZIONI ASTE

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ELEM. n.ro	ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
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RISULTATI : SISMA DIR. 1 VALORI EFFICACI : TENSIONI ED AZIONI DI MEMBRANA

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ELEM. n.ro	NODO n.ro	sm1 (Kg/cm2)	sm2 (Kg/cm2)	sm12 (Kg/cm2)	N1 (Kg/cm)	N2 (Kg/cm)	N12 (Kg/cm)	Nmax (Kg/m)	Nmin (Kg/m)
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RISULTATI : SISMA DIR. 1 VALORI EFFICACI : TENSIONI ED AZIONI DI FLESSIONE

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ELEM. n.ro	NODO n.ro	sb1 (Kg/cm2)	sb2 (Kg/cm2)	sb12 (Kg/cm2)	M1 (Kgcm/m)	M2 (Kgcm/m)	M12 (Kgcm/m)	Mmax (Kgcm/m)	Mmin (Kgcm/m)
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RISULTATI : SISMA DIR. 2 VALORI EFFICACI : TENSIONI ED AZIONI DI MEMBRANA

=====

ELEM. n.ro	NODO n.ro	sm1 (Kg/cm2)	sm2 (Kg/cm2)	sm12 (Kg/cm2)	N1 (Kg/cm)	N2 (Kg/cm)	N12 (Kg/cm)	Nmax (Kg/m)	Nmin (Kg/m)
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RISULTATI : SISMA DIR. 2 VALORI EFFICACI : TENSIONI ED AZIONI DI FLESSIONE

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ELEM.	NODO	sb1	sb2	sb12	M1	M2	M12	Mmax	Mmin
n.ro	n.ro	(Kg/cm2)	(Kg/cm2)	(Kg/cm2)	(Kgcm/m)	(Kgcm/m)	(Kgcm/m)	(Kgcm/m)	(Kgcm/m)

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RISULTATI : SISMA DIR. 1 VALORI EFFICACI : TENSIONI MAX E AZIONI DI TAGLIO FUORI PIANO

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ELEM.	NODO	spessore	tau13	tau23	V13	V23
n.ro	n.ro	(cm)	(Kg/cm2)	(Kg/cm2)	(Kg/m)	(Kg/m)

=====

RISULTATI : SISMA DIR. 2 VALORI EFFICACI : TENSIONI MAX E AZIONI DI TAGLIO FUORI PIANO

=====

ELEM.	NODO	spessore	tau13	tau23	V13	V23
n.ro	n.ro	(cm)	(Kg/cm2)	(Kg/cm2)	(Kg/m)	(Kg/m)

=====

RISULTATI : SISMA DIR. 1 VALORI EFFICACI : PRESSIONI TERRENO

=====

***** TRAVI *****

ELEM.	ascissa	pressione
n.ro	cm	(Kg/cm2)
1	0.00	0.13
	18.71	0.11
	37.42	0.10
	56.13	0.09
	74.84	0.08
	93.55	0.07
	112.26	0.06
	130.97	0.06
	149.68	0.05
	168.39	0.05
	187.11	0.04
	205.82	0.04
	224.53	0.04
	243.24	0.03
	261.95	0.03
	280.66	0.02
	299.37	0.02
	318.08	0.02
	336.79	0.01
	355.50	0.00
2	0.00	0.00
	14.87	0.00
	29.74	0.01
	44.61	0.01
	59.47	0.02
	74.34	0.02
	89.21	0.03
	104.08	0.03
	118.95	0.04
	133.82	0.05
	148.68	0.05
	163.55	0.06
	178.42	0.07
	193.29	0.08
	208.16	0.09
	223.03	0.10
	237.89	0.11
	252.76	0.12
	267.63	0.13
	282.50	0.14

3	0.00	0.13
	21.84	0.12
	43.68	0.11
	65.53	0.11
	87.37	0.10
	109.21	0.10
	131.05	0.09
	152.89	0.09
	174.74	0.09
	196.58	0.09
	218.42	0.09
	240.26	0.09
	262.11	0.09
	283.95	0.09
	305.79	0.10
	327.63	0.10
	349.47	0.11
	371.32	0.11
	393.16	0.12
	415.00	0.13
4	0.00	0.00
	21.84	0.00
	43.68	0.00
	65.53	0.00
	87.37	0.00
	109.21	0.00
	131.05	0.00
	152.89	0.00
	174.74	0.00
	196.58	0.00
	218.42	0.00
	240.26	0.00
	262.11	0.00
	283.95	0.00
	305.79	0.00
	327.63	0.00
	349.47	0.00
	371.32	0.00
	393.16	0.00
	415.00	0.00
5	0.00	0.14
	21.84	0.14
	43.68	0.13
	65.53	0.12
	87.37	0.12
	109.21	0.11
	131.05	0.11
	152.89	0.10
	174.74	0.10
	196.58	0.10
	218.42	0.10
	240.26	0.10
	262.11	0.10
	283.95	0.11
	305.79	0.11
	327.63	0.12
	349.47	0.12
	371.32	0.13
	393.16	0.14
	415.00	0.14
6	0.00	0.13
	18.71	0.11
	37.42	0.10
	56.13	0.09
	74.84	0.08
	93.55	0.07
	112.26	0.06
	130.97	0.06

	149.68	0.05
	168.39	0.05
	187.11	0.04
	205.82	0.04
	224.53	0.04
	243.24	0.03
	261.95	0.03
	280.66	0.03
	299.37	0.02
	318.08	0.02
	336.79	0.01
	355.50	0.00
7	0.00	0.00
	14.87	0.00
	29.74	0.01
	44.61	0.01
	59.47	0.02
	74.34	0.02
	89.21	0.03
	104.08	0.03
	118.95	0.04
	133.82	0.05
	148.68	0.05
	163.55	0.06
	178.42	0.07
	193.29	0.08
	208.16	0.09
	223.03	0.10
	237.89	0.11
	252.76	0.12
	267.63	0.13
	282.50	0.14

=====

RISULTATI : SISMA DIR. 2 VALORI EFFICACI : PRESSIONI TERRENO

=====

***** TRAVI *****

ELEM. n.ro	ascissa cm	pressione (Kg/cm2)
1	0.00	0.18
	18.71	0.17
	37.42	0.16
	56.13	0.15
	74.84	0.14
	93.55	0.13
	112.26	0.12
	130.97	0.12
	149.68	0.11
	168.39	0.10
	187.11	0.09
	205.82	0.09
	224.53	0.08
	243.24	0.08
	261.95	0.08
	280.66	0.08
	299.37	0.07
	318.08	0.07
	336.79	0.07
	355.50	0.08
2	0.00	0.08
	14.87	0.08
	29.74	0.08
	44.61	0.08
	59.47	0.09

	74.34	0.09
	89.21	0.09
	104.08	0.10
	118.95	0.10
	133.82	0.11
	148.68	0.11
	163.55	0.12
	178.42	0.12
	193.29	0.13
	208.16	0.14
	223.03	0.15
	237.89	0.15
	252.76	0.16
	267.63	0.17
	282.50	0.18
3	0.00	0.18
	21.84	0.16
	43.68	0.13
	65.53	0.11
	87.37	0.09
	109.21	0.07
	131.05	0.05
	152.89	0.04
	174.74	0.02
	196.58	0.01
	218.42	0.01
	240.26	0.02
	262.11	0.04
	283.95	0.05
	305.79	0.07
	327.63	0.09
	349.47	0.11
	371.32	0.13
	393.16	0.16
	415.00	0.18
4	0.00	0.08
	21.84	0.05
	43.68	0.03
	65.53	0.02
	87.37	0.01
	109.21	0.00
	131.05	0.00
	152.89	0.00
	174.74	0.00
	196.58	0.00
	218.42	0.00
	240.26	0.00
	262.11	0.01
	283.95	0.00
	305.79	0.00
	327.63	0.00
	349.47	0.02
	371.32	0.03
	393.16	0.05
	415.00	0.08
5	0.00	0.18
	21.84	0.15
	43.68	0.13
	65.53	0.11
	87.37	0.09
	109.21	0.07
	131.05	0.05
	152.89	0.04
	174.74	0.02
	196.58	0.01
	218.42	0.01
	240.26	0.02
	262.11	0.04

	283.95	0.05
	305.79	0.07
	327.63	0.09
	349.47	0.11
	371.32	0.13
	393.16	0.15
	415.00	0.18
6	0.00	0.18
	18.71	0.17
	37.42	0.16
	56.13	0.15
	74.84	0.14
	93.55	0.13
	112.26	0.12
	130.97	0.12
	149.68	0.11
	168.39	0.10
	187.11	0.09
	205.82	0.09
	224.53	0.08
	243.24	0.08
	261.95	0.08
	280.66	0.08
	299.37	0.07
	318.08	0.07
	336.79	0.07
	355.50	0.08
7	0.00	0.08
	14.87	0.08
	29.74	0.08
	44.61	0.08
	59.47	0.09
	74.34	0.09
	89.21	0.09
	104.08	0.10
	118.95	0.10
	133.82	0.11
	148.68	0.11
	163.55	0.12
	178.42	0.13
	193.29	0.13
	208.16	0.14
	223.03	0.15
	237.89	0.15
	252.76	0.16
	267.63	0.17
	282.50	0.18

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COMBINAZIONI SISMICHE ASTE, TRAVI PER ANALISI DINAMICA

=====

COMB. n.ro	COMB.STATICA CONTEMPORANEA	PERMUTAZIONE		
10	9	+N	+M3	(SISMA DIR. 1)
11	9	+N	-M3	(SISMA DIR. 1)
12	9	-N	+M3	(SISMA DIR. 1)
13	9	-N	-M3	(SISMA DIR. 1)
14	9	+N	+M3	(SISMA DIR. 2)
15	9	+N	-M3	(SISMA DIR. 2)
16	9	-N	+M3	(SISMA DIR. 2)
17	9	-N	-M3	(SISMA DIR. 2)
18	9	+N	+M3	(SISMA DIR. Z)
19	9	+N	-M3	(SISMA DIR. Z)
20	9	-N	+M3	(SISMA DIR. Z)
21	9	-N	-M3	(SISMA DIR. Z)

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COMBINAZIONI SISMICHE ASTE, PILASTRI PER ANALISI DINAMICA

=====

COMB. n.ro	COMB.STATICA CONTEMPORANEA	PERMUTAZIONE			
22	9	+N	+M2	+M3	(SISMA DIR. 1)
23	9	+N	+M2	-M3	(SISMA DIR. 1)
24	9	+N	-M2	-M3	(SISMA DIR. 1)
25	9	+N	-M2	+M3	(SISMA DIR. 1)
26	9	-N	+M2	+M3	(SISMA DIR. 1)
27	9	-N	+M2	-M3	(SISMA DIR. 1)
28	9	-N	-M2	-M3	(SISMA DIR. 1)
29	9	-N	-M2	+M3	(SISMA DIR. 1)
30	9	+N	+M2	+M3	(SISMA DIR. 2)
31	9	+N	+M2	-M3	(SISMA DIR. 2)
32	9	+N	-M2	-M3	(SISMA DIR. 2)
33	9	+N	-M2	+M3	(SISMA DIR. 2)
34	9	-N	+M2	+M3	(SISMA DIR. 2)
35	9	-N	+M2	-M3	(SISMA DIR. 2)
36	9	-N	-M2	-M3	(SISMA DIR. 2)
37	9	-N	-M2	+M3	(SISMA DIR. 2)
38	9	+N	+M2	+M3	(SISMA DIR. Z)
39	9	+N	+M2	-M3	(SISMA DIR. Z)
40	9	+N	-M2	-M3	(SISMA DIR. Z)
41	9	+N	-M2	+M3	(SISMA DIR. Z)
42	9	-N	+M2	+M3	(SISMA DIR. Z)
43	9	-N	+M2	-M3	(SISMA DIR. Z)
44	9	-N	-M2	-M3	(SISMA DIR. Z)
45	9	-N	-M2	+M3	(SISMA DIR. Z)

DESCRIZIONE TABELLA SOLLECITAZIONI TRAVI E PILASTRI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella SOLLECITAZIONI TRAVI E PILASTRI.

Per ogni gruppo di elementi ed internamente ad esso, per ogni elemento ad esso appartenente e per ogni direzione del sisma considerata vengono riportate, secondo modalita' diverse da tipo a tipo di elemento, azioni e/o tensioni in punti caratteristici riferiti alla terna locale, esplicitando i contributi dei modi propri considerati.

Oltre ai modi propri, calcolati con l'analisi dinamica modale, si considera un extra-modo (identificato con il numero : n.ro modi + 1) che contiene i cosiddetti 'valori efficaci' (i.e radice quadrata delle somma dei quadrati della sollecitazione considerata).

ELEM. n.ro	numero dell' elemento				
x	ascissa locale misurata dal nodo I al nodo J				
N	sforzo normale nel p.to x				
V2	forza di taglio	'	'	'	in direz. 2 locale
V3	forza di taglio	'	'	'	3
T	momento torcente	'	'	'	
M2	momento flettente	'	'	'	intorno asse 2 locale
M3	momento flettente	'	'	'	3

Per la descrizione delle convenzioni usate per il segno delle azioni interne, si rimanda alla documentazione fornita con il programma.

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RISULTATI: SISMA DIR.1 COMB.SISMICHE: SOLLECITAZIONI TRAVI CON PERMUTAZIONI

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ELEM./ PERM.		ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
1	1	0.00	0.0	3284.0	5.5	386.1	11.1	2647.5
1	1	3.56	0.0	4965.2	5.5	386.1	8.5	3943.6
1	2	0.00	0.0	3284.0	5.5	386.1	11.1	-2849.6
1	2	3.56	0.0	4965.2	5.5	386.1	8.5	-688.3
2	1	0.00	0.0	4427.1	8.0	521.6	10.0	2768.8
2	1	2.83	0.0	2491.8	8.0	521.6	12.7	2549.3
2	2	0.00	0.0	4427.1	8.0	521.6	10.0	619.9
2	2	2.83	0.0	2491.8	8.0	521.6	12.7	-2687.6
3	1	0.00	0.0	4435.0	5.4	140.8	11.4	852.9
3	1	4.15	0.0	4421.5	5.4	140.8	11.1	870.0
3	2	0.00	0.0	4435.0	5.4	140.8	11.4	-1388.9
3	2	4.15	0.0	4421.5	5.4	140.8	11.1	-1348.9
4	1	0.00	0.0	2507.8	2.1	23.0	4.4	1183.3
4	1	4.15	0.0	2444.2	2.1	23.0	4.2	1108.5
4	2	0.00	0.0	2507.8	2.1	23.0	4.4	-76.1
4	2	4.15	0.0	2444.2	2.1	23.0	4.2	-134.4
5	1	0.00	0.0	4353.4	4.8	140.8	10.1	651.5
5	1	4.15	0.0	4345.5	4.8	140.8	9.7	689.4
5	2	0.00	0.0	4353.4	4.8	140.8	10.1	-1335.6
5	2	4.15	0.0	4345.5	4.8	140.8	9.7	-1295.8
6	1	0.00	0.0	3294.9	5.7	321.8	11.5	2661.3
6	1	3.56	0.0	5007.1	5.7	321.8	8.6	3978.3
6	2	0.00	0.0	3294.9	5.7	321.8	11.5	-2860.4
6	2	3.56	0.0	5007.1	5.7	321.8	8.6	-666.9
7	1	0.00	0.0	4462.6	8.2	439.9	10.1	2800.8
7	1	2.83	0.0	2508.3	8.2	439.9	13.0	2559.3
7	2	0.00	0.0	4462.6	8.2	439.9	10.1	642.8
7	2	2.83	0.0	2508.3	8.2	439.9	13.0	-2699.5
14	1	0.00	2.0	3985.2	6.2	232.6	11.5	2139.5
14	1	3.56	2.0	5183.0	6.2	232.6	10.3	-908.5
14	2	0.00	2.0	3985.2	6.2	232.6	11.5	-2758.8
14	2	3.56	2.0	5183.0	6.2	232.6	10.3	-3969.0
15	1	0.00	45.8	4846.5	9.3	300.1	12.8	-946.9
15	1	2.83	45.8	3313.8	9.3	300.1	13.3	2254.2
15	2	0.00	45.8	4846.5	9.3	300.1	12.8	-3684.1
15	2	2.83	45.8	3313.8	9.3	300.1	13.3	-2555.4
16	1	0.00	-23.0	2073.6	5.3	12.0	11.1	728.8
16	1	4.15	-23.0	2073.8	5.3	12.0	11.1	742.5
16	2	0.00	-23.0	2073.6	5.3	12.0	11.1	-1358.9
16	2	4.15	-23.0	2073.8	5.3	12.0	11.1	-1373.3
17	1	0.00	-23.2	2019.8	4.5	26.4	9.3	598.1

17	1	4.15	-23.2	2020.0	4.5	26.4	9.3	622.7
17	2	0.00	-23.2	2019.8	4.5	26.4	9.3	-1247.7
17	2	4.15	-23.2	2020.0	4.5	26.4	9.3	-1273.2
18	1	0.00	2.8	3992.8	6.2	236.6	11.6	2154.6
18	1	3.56	2.8	5189.7	6.2	236.6	10.0	-897.5
18	2	0.00	2.8	3992.8	6.2	236.6	11.6	-2774.6
18	2	3.56	2.8	5189.7	6.2	236.6	10.0	-3977.5
19	1	0.00	46.8	4853.9	9.3	298.1	12.5	-936.6
19	1	2.83	46.8	3322.5	9.3	298.1	13.4	2269.2
19	2	0.00	46.8	4853.9	9.3	298.1	12.5	-3692.0
19	2	2.83	46.8	3322.5	9.3	298.1	13.4	-2571.4

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RISULTATI: SISMA DIR.1 COMB.SISMICHE: SOLLECITAZIONI PILASTRI CON PERMUTAZIONI

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ELEM./ PERM.		ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
8	1	0.00	-3471.5	619.1	1551.5	22.6	2533.3	1039.6
8	1	3.55	-2916.9	619.1	1551.5	22.6	2773.9	639.6
8	2	0.00	-3471.5	619.1	1551.5	22.6	2533.3	-928.5
8	2	3.55	-2916.9	619.1	1551.5	22.6	2773.9	-1158.4
8	3	0.00	-3471.5	619.1	1551.5	22.6	-2733.8	-928.5
8	3	3.55	-2916.9	619.1	1551.5	22.6	-2154.1	-1158.4
8	4	0.00	-3471.5	619.1	1551.5	22.6	-2733.8	1039.6
8	4	3.55	-2916.9	619.1	1551.5	22.6	-2154.1	639.6
8	5	0.00	-6509.6	619.1	1551.5	22.6	2533.3	1039.6
8	5	3.55	-5954.9	619.1	1551.5	22.6	2773.9	639.6
8	6	0.00	-6509.6	619.1	1551.5	22.6	2533.3	-928.5
8	6	3.55	-5954.9	619.1	1551.5	22.6	2773.9	-1158.4
8	7	0.00	-6509.6	619.1	1551.5	22.6	-2733.8	-928.5
8	7	3.55	-5954.9	619.1	1551.5	22.6	-2154.1	-1158.4
8	8	0.00	-6509.6	619.1	1551.5	22.6	-2733.8	1039.6
8	8	3.55	-5954.9	619.1	1551.5	22.6	-2154.1	639.6
9	1	0.00	-7800.8	310.7	1637.9	22.9	2891.8	573.6
9	1	3.55	-7246.1	310.7	1637.9	22.9	2676.2	281.6
9	2	0.00	-7800.8	310.7	1637.9	22.9	2891.8	-688.3
9	2	3.55	-7246.1	310.7	1637.9	22.9	2676.2	-529.3
9	3	0.00	-7800.8	310.7	1637.9	22.9	-2759.1	-688.3
9	3	3.55	-7246.1	310.7	1637.9	22.9	-2922.6	-529.3
9	4	0.00	-7800.8	310.7	1637.9	22.9	-2759.1	573.6
9	4	3.55	-7246.1	310.7	1637.9	22.9	-2922.6	281.6
9	5	0.00	-8473.9	310.7	1637.9	22.9	2891.8	573.6
9	5	3.55	-7919.3	310.7	1637.9	22.9	2676.2	281.6
9	6	0.00	-8473.9	310.7	1637.9	22.9	2891.8	-688.3
9	6	3.55	-7919.3	310.7	1637.9	22.9	2676.2	-529.3
9	7	0.00	-8473.9	310.7	1637.9	22.9	-2759.1	-688.3
9	7	3.55	-7919.3	310.7	1637.9	22.9	-2922.6	-529.3

9	8	0.00	-8473.9	310.7	1637.9	22.9	-2759.1	573.6
9	8	3.55	-7919.3	310.7	1637.9	22.9	-2922.6	281.6
10	1	0.00	-2373.6	519.6	1476.6	22.7	2649.1	863.0
10	1	3.55	-1818.9	519.6	1476.6	22.7	2290.8	466.8
10	2	0.00	-2373.6	519.6	1476.6	22.7	2649.1	-748.2
10	2	3.55	-1818.9	519.6	1476.6	22.7	2290.8	-981.5
10	3	0.00	-2373.6	519.6	1476.6	22.7	-2509.7	-748.2
10	3	3.55	-1818.9	519.6	1476.6	22.7	-2592.8	-981.5
10	4	0.00	-2373.6	519.6	1476.6	22.7	-2509.7	863.0
10	4	3.55	-1818.9	519.6	1476.6	22.7	-2592.8	466.8
10	5	0.00	-5850.0	519.6	1476.6	22.7	2649.1	863.0
10	5	3.55	-5295.3	519.6	1476.6	22.7	2290.8	466.8
10	6	0.00	-5850.0	519.6	1476.6	22.7	2649.1	-748.2
10	6	3.55	-5295.3	519.6	1476.6	22.7	2290.8	-981.5
10	7	0.00	-5850.0	519.6	1476.6	22.7	-2509.7	-748.2
10	7	3.55	-5295.3	519.6	1476.6	22.7	-2592.8	-981.5
10	8	0.00	-5850.0	519.6	1476.6	22.7	-2509.7	863.0
10	8	3.55	-5295.3	519.6	1476.6	22.7	-2592.8	466.8
11	1	0.00	-2364.7	498.5	1466.2	22.8	2630.4	711.4
11	1	3.55	-1810.0	498.5	1466.2	22.8	2273.3	950.3
11	2	0.00	-2364.7	498.5	1466.2	22.8	2630.4	-823.5
11	2	3.55	-1810.0	498.5	1466.2	22.8	2273.3	-437.4
11	3	0.00	-2364.7	498.5	1466.2	22.8	-2491.4	-823.5
11	3	3.55	-1810.0	498.5	1466.2	22.8	-2574.7	-437.4
11	4	0.00	-2364.7	498.5	1466.2	22.8	-2491.4	711.4
11	4	3.55	-1810.0	498.5	1466.2	22.8	-2574.7	950.3
11	5	0.00	-5857.2	498.5	1466.2	22.8	2630.4	711.4
11	5	3.55	-5302.5	498.5	1466.2	22.8	2273.3	950.3
11	6	0.00	-5857.2	498.5	1466.2	22.8	2630.4	-823.5
11	6	3.55	-5302.5	498.5	1466.2	22.8	2273.3	-437.4
11	7	0.00	-5857.2	498.5	1466.2	22.8	-2491.4	-823.5
11	7	3.55	-5302.5	498.5	1466.2	22.8	-2574.7	-437.4
11	8	0.00	-5857.2	498.5	1466.2	22.8	-2491.4	711.4
11	8	3.55	-5302.5	498.5	1466.2	22.8	-2574.7	950.3
12	1	0.00	-7804.3	311.4	1626.7	22.9	2871.9	683.4
12	1	3.55	-7249.6	311.4	1626.7	22.9	2656.3	530.5
12	2	0.00	-7804.3	311.4	1626.7	22.9	2871.9	-575.1
12	2	3.55	-7249.6	311.4	1626.7	22.9	2656.3	-281.0
12	3	0.00	-7804.3	311.4	1626.7	22.9	-2739.0	-575.1
12	3	3.55	-7249.6	311.4	1626.7	22.9	-2902.8	-281.0
12	4	0.00	-7804.3	311.4	1626.7	22.9	-2739.0	683.4
12	4	3.55	-7249.6	311.4	1626.7	22.9	-2902.8	530.5
12	5	0.00	-8472.6	311.4	1626.7	22.9	2871.9	683.4
12	5	3.55	-7918.0	311.4	1626.7	22.9	2656.3	530.5
12	6	0.00	-8472.6	311.4	1626.7	22.9	2871.9	-575.1
12	6	3.55	-7918.0	311.4	1626.7	22.9	2656.3	-281.0

12	7	0.00	-8472.6	311.4	1626.7	22.9	-2739.0	-575.1
12	7	3.55	-7918.0	311.4	1626.7	22.9	-2902.8	-281.0
12	8	0.00	-8472.6	311.4	1626.7	22.9	-2739.0	683.4
12	8	3.55	-7918.0	311.4	1626.7	22.9	-2902.8	530.5
13	1	0.00	-3470.3	607.6	1541.2	22.6	2514.8	909.2
13	1	3.55	-2915.6	607.6	1541.2	22.6	2756.0	1139.2
13	2	0.00	-3470.3	607.6	1541.2	22.6	2514.8	-1018.2
13	2	3.55	-2915.6	607.6	1541.2	22.6	2756.0	-621.8
13	3	0.00	-3470.3	607.6	1541.2	22.6	-2715.4	-1018.2
13	3	3.55	-2915.6	607.6	1541.2	22.6	-2136.6	-621.8
13	4	0.00	-3470.3	607.6	1541.2	22.6	-2715.4	909.2
13	4	3.55	-2915.6	607.6	1541.2	22.6	-2136.6	1139.2
13	5	0.00	-6509.6	607.6	1541.2	22.6	2514.8	909.2
13	5	3.55	-5954.9	607.6	1541.2	22.6	2756.0	1139.2
13	6	0.00	-6509.6	607.6	1541.2	22.6	2514.8	-1018.2
13	6	3.55	-5954.9	607.6	1541.2	22.6	2756.0	-621.8
13	7	0.00	-6509.6	607.6	1541.2	22.6	-2715.4	-1018.2
13	7	3.55	-5954.9	607.6	1541.2	22.6	-2136.6	-621.8
13	8	0.00	-6509.6	607.6	1541.2	22.6	-2715.4	909.2
13	8	3.55	-5954.9	607.6	1541.2	22.6	-2136.6	1139.2

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RISULTATI: SISMA DIR.2 COMB.SISMICHE: SOLLECITAZIONI TRAVI CON PERMUTAZIONI

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ELEM./		ascissa	N	V2	V3	T	M2	M3
PERM.		(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)
1	1	0.00	0.0	4518.3	16.0	315.9	32.3	1496.4
1	1	3.56	0.0	4218.4	16.0	315.9	24.5	3430.5
1	2	0.00	0.0	4518.3	16.0	315.9	32.3	-1698.4
1	2	3.56	0.0	4218.4	16.0	315.9	24.5	-175.3
2	1	0.00	0.0	3740.0	23.2	465.2	28.9	2981.5
2	1	2.83	0.0	3518.8	23.2	465.2	36.7	1113.2
2	2	0.00	0.0	3740.0	23.2	465.2	28.9	407.2
2	2	2.83	0.0	3518.8	23.2	465.2	36.7	-1251.4
3	1	0.00	0.0	3896.1	15.7	456.2	33.2	2894.2
3	1	4.15	0.0	3883.5	15.7	456.2	32.1	2920.4
3	2	0.00	0.0	3896.1	15.7	456.2	33.2	-3430.1
3	2	4.15	0.0	3883.5	15.7	456.2	32.1	-3399.3
4	1	0.00	0.0	3000.1	6.0	73.2	12.8	2499.1
4	1	4.15	0.0	2946.2	6.0	73.2	12.1	2443.8
4	2	0.00	0.0	3000.1	6.0	73.2	12.8	-1391.8
4	2	4.15	0.0	2946.2	6.0	73.2	12.1	-1469.7
5	1	0.00	0.0	3487.6	13.8	459.2	29.2	2269.0
5	1	4.15	0.0	3473.0	13.8	459.2	28.2	2296.4
5	2	0.00	0.0	3487.6	13.8	459.2	29.2	-2953.1
5	2	4.15	0.0	3473.0	13.8	459.2	28.2	-2902.8
6	1	0.00	0.0	4529.0	16.4	270.3	33.4	1504.4

6	1	3.56	0.0	4251.8	16.4	270.3	24.9	3451.9
6	2	0.00	0.0	4529.0	16.4	270.3	33.4	-1703.5
6	2	3.56	0.0	4251.8	16.4	270.3	24.9	-140.5
7	1	0.00	0.0	3777.2	23.7	397.3	29.2	2997.1
7	1	2.83	0.0	3524.6	23.7	397.3	37.7	1109.2
7	2	0.00	0.0	3777.2	23.7	397.3	29.2	446.5
7	2	2.83	0.0	3524.6	23.7	397.3	37.7	-1249.4
14	1	0.00	51.3	3422.0	17.7	636.3	33.3	785.2
14	1	3.56	51.3	4619.8	17.7	636.3	29.5	-1554.3
14	2	0.00	51.3	3422.0	17.7	636.3	33.3	-1404.5
14	2	3.56	51.3	4619.8	17.7	636.3	29.5	-3323.2
15	1	0.00	66.9	4031.8	26.9	827.2	37.0	-1665.0
15	1	2.83	66.9	2499.1	26.9	827.2	38.7	730.6
15	2	0.00	66.9	4031.8	26.9	827.2	37.0	-2966.0
15	2	2.83	66.9	2499.1	26.9	827.2	38.7	-1031.8
16	1	0.00	-26.2	3225.5	15.5	34.1	32.1	3121.1
16	1	4.15	-26.2	3225.7	15.5	34.1	32.1	3124.9
16	2	0.00	-26.2	3225.5	15.5	34.1	32.1	-3751.3
16	2	4.15	-26.2	3225.7	15.5	34.1	32.1	-3755.7
17	1	0.00	-29.1	3025.1	13.1	82.9	27.0	2692.7
17	1	4.15	-29.1	3025.3	13.1	82.9	27.0	2699.7
17	2	0.00	-29.1	3025.1	13.1	82.9	27.0	-3342.3
17	2	4.15	-29.1	3025.3	13.1	82.9	27.0	-3350.2
18	1	0.00	51.7	3425.7	17.7	637.1	33.4	791.6
18	1	3.56	51.7	4622.6	17.7	637.1	29.2	-1548.4
18	2	0.00	51.7	3425.7	17.7	637.1	33.4	-1411.6
18	2	3.56	51.7	4622.6	17.7	637.1	29.2	-3326.6
19	1	0.00	67.2	4030.5	26.9	826.0	36.7	-1664.2
19	1	2.83	67.2	2499.0	26.9	826.0	38.9	734.4
19	2	0.00	67.2	4030.5	26.9	826.0	36.7	-2964.3
19	2	2.83	67.2	2499.0	26.9	826.0	38.9	-1036.6

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RISULTATI: SISMA DIR.2 COMB.SISMICHE: SOLLECITAZIONI PILASTRI CON PERMUTAZIONI

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ELEM./		ascissa	N	V2	V3	T	M2	M3
PERM.		(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)
8	1	0.00	-3206.5	1778.8	753.6	65.5	1070.4	3163.2
8	1	3.55	-2651.8	1778.8	753.6	65.5	1404.3	2632.9
8	2	0.00	-3206.5	1778.8	753.6	65.5	1070.4	-3052.1
8	2	3.55	-2651.8	1778.8	753.6	65.5	1404.3	-3151.7
8	3	0.00	-3206.5	1778.8	753.6	65.5	-1271.0	-3052.1
8	3	3.55	-2651.8	1778.8	753.6	65.5	-784.5	-3151.7
8	4	0.00	-3206.5	1778.8	753.6	65.5	-1271.0	3163.2
8	4	3.55	-2651.8	1778.8	753.6	65.5	-784.5	2632.9
8	5	0.00	-6774.6	1778.8	753.6	65.5	1070.4	3163.2
8	5	3.55	-6219.9	1778.8	753.6	65.5	1404.3	2632.9

8	6	0.00	-6774.6	1778.8	753.6	65.5	1070.4	-3052.1
8	6	3.55	-6219.9	1778.8	753.6	65.5	1404.3	-3151.7
8	7	0.00	-6774.6	1778.8	753.6	65.5	-1271.0	-3052.1
8	7	3.55	-6219.9	1778.8	753.6	65.5	-784.5	-3151.7
8	8	0.00	-6774.6	1778.8	753.6	65.5	-1271.0	3163.2
8	8	3.55	-6219.9	1778.8	753.6	65.5	-784.5	2632.9
9	1	0.00	-7766.5	979.5	701.5	66.3	1221.5	2017.9
9	1	3.55	-7211.8	979.5	701.5	66.3	1022.5	1211.7
9	2	0.00	-7766.5	979.5	701.5	66.3	1221.5	-2132.6
9	2	3.55	-7211.8	979.5	701.5	66.3	1022.5	-1459.4
9	3	0.00	-7766.5	979.5	701.5	66.3	-1088.8	-2132.6
9	3	3.55	-7211.8	979.5	701.5	66.3	-1269.0	-1459.4
9	4	0.00	-7766.5	979.5	701.5	66.3	-1088.8	2017.9
9	4	3.55	-7211.8	979.5	701.5	66.3	-1269.0	1211.7
9	5	0.00	-8508.2	979.5	701.5	66.3	1221.5	2017.9
9	5	3.55	-7953.5	979.5	701.5	66.3	1022.5	1211.7
9	6	0.00	-8508.2	979.5	701.5	66.3	1221.5	-2132.6
9	6	3.55	-7953.5	979.5	701.5	66.3	1022.5	-1459.4
9	7	0.00	-8508.2	979.5	701.5	66.3	-1088.8	-2132.6
9	7	3.55	-7953.5	979.5	701.5	66.3	-1269.0	-1459.4
9	8	0.00	-8508.2	979.5	701.5	66.3	-1088.8	2017.9
9	8	3.55	-7953.5	979.5	701.5	66.3	-1269.0	1211.7
10	1	0.00	-2322.5	1424.0	613.6	65.9	1074.9	2523.9
10	1	3.55	-1767.8	1424.0	613.6	65.9	801.5	2016.4
10	2	0.00	-2322.5	1424.0	613.6	65.9	1074.9	-2409.1
10	2	3.55	-1767.8	1424.0	613.6	65.9	801.5	-2531.2
10	3	0.00	-2322.5	1424.0	613.6	65.9	-935.5	-2409.1
10	3	3.55	-1767.8	1424.0	613.6	65.9	-1103.4	-2531.2
10	4	0.00	-2322.5	1424.0	613.6	65.9	-935.5	2523.9
10	4	3.55	-1767.8	1424.0	613.6	65.9	-1103.4	2016.4
10	5	0.00	-5901.1	1424.0	613.6	65.9	1074.9	2523.9
10	5	3.55	-5346.4	1424.0	613.6	65.9	801.5	2016.4
10	6	0.00	-5901.1	1424.0	613.6	65.9	1074.9	-2409.1
10	6	3.55	-5346.4	1424.0	613.6	65.9	801.5	-2531.2
10	7	0.00	-5901.1	1424.0	613.6	65.9	-935.5	-2409.1
10	7	3.55	-5346.4	1424.0	613.6	65.9	-1103.4	-2531.2
10	8	0.00	-5901.1	1424.0	613.6	65.9	-935.5	2523.9
10	8	3.55	-5346.4	1424.0	613.6	65.9	-1103.4	2016.4
11	1	0.00	-2322.2	1417.0	610.1	65.9	1068.5	2398.7
11	1	3.55	-1767.6	1417.0	610.1	65.9	795.8	2520.9
11	2	0.00	-2322.2	1417.0	610.1	65.9	1068.5	-2510.8
11	2	3.55	-1767.6	1417.0	610.1	65.9	795.8	-2008.0
11	3	0.00	-2322.2	1417.0	610.1	65.9	-929.5	-2510.8
11	3	3.55	-1767.6	1417.0	610.1	65.9	-1097.2	-2008.0
11	4	0.00	-2322.2	1417.0	610.1	65.9	-929.5	2398.7
11	4	3.55	-1767.6	1417.0	610.1	65.9	-1097.2	2520.9

11	5	0.00	-5899.7	1417.0	610.1	65.9	1068.5	2398.7
11	5	3.55	-5345.0	1417.0	610.1	65.9	795.8	2520.9
11	6	0.00	-5899.7	1417.0	610.1	65.9	1068.5	-2510.8
11	6	3.55	-5345.0	1417.0	610.1	65.9	795.8	-2008.0
11	7	0.00	-5899.7	1417.0	610.1	65.9	-929.5	-2510.8
11	7	3.55	-5345.0	1417.0	610.1	65.9	-1097.2	-2008.0
11	8	0.00	-5899.7	1417.0	610.1	65.9	-929.5	2398.7
11	8	3.55	-5345.0	1417.0	610.1	65.9	-1097.2	2520.9
12	1	0.00	-7767.8	981.0	697.4	66.3	1214.1	2130.2
12	1	3.55	-7213.2	981.0	697.4	66.3	1015.0	1460.7
12	2	0.00	-7767.8	981.0	697.4	66.3	1214.1	-2021.9
12	2	3.55	-7213.2	981.0	697.4	66.3	1015.0	-1211.3
12	3	0.00	-7767.8	981.0	697.4	66.3	-1081.2	-2021.9
12	3	3.55	-7213.2	981.0	697.4	66.3	-1261.5	-1211.3
12	4	0.00	-7767.8	981.0	697.4	66.3	-1081.2	2130.2
12	4	3.55	-7213.2	981.0	697.4	66.3	-1261.5	1460.7
12	5	0.00	-8509.1	981.0	697.4	66.3	1214.1	2130.2
12	5	3.55	-7954.4	981.0	697.4	66.3	1015.0	1460.7
12	6	0.00	-8509.1	981.0	697.4	66.3	1214.1	-2021.9
12	6	3.55	-7954.4	981.0	697.4	66.3	1015.0	-1211.3
12	7	0.00	-8509.1	981.0	697.4	66.3	-1081.2	-2021.9
12	7	3.55	-7954.4	981.0	697.4	66.3	-1261.5	-1211.3
12	8	0.00	-8509.1	981.0	697.4	66.3	-1081.2	2130.2
12	8	3.55	-7954.4	981.0	697.4	66.3	-1261.5	1460.7
13	1	0.00	-3204.2	1775.0	749.4	65.4	1062.8	3047.1
13	1	3.55	-2649.5	1775.0	749.4	65.4	1396.9	3145.4
13	2	0.00	-3204.2	1775.0	749.4	65.4	1062.8	-3156.1
13	2	3.55	-2649.5	1775.0	749.4	65.4	1396.9	-2628.0
13	3	0.00	-3204.2	1775.0	749.4	65.4	-1263.4	-3156.1
13	3	3.55	-2649.5	1775.0	749.4	65.4	-777.4	-2628.0
13	4	0.00	-3204.2	1775.0	749.4	65.4	-1263.4	3047.1
13	4	3.55	-2649.5	1775.0	749.4	65.4	-777.4	3145.4
13	5	0.00	-6775.6	1775.0	749.4	65.4	1062.8	3047.1
13	5	3.55	-6220.9	1775.0	749.4	65.4	1396.9	3145.4
13	6	0.00	-6775.6	1775.0	749.4	65.4	1062.8	-3156.1
13	6	3.55	-6220.9	1775.0	749.4	65.4	1396.9	-2628.0
13	7	0.00	-6775.6	1775.0	749.4	65.4	-1263.4	-3156.1
13	7	3.55	-6220.9	1775.0	749.4	65.4	-777.4	-2628.0
13	8	0.00	-6775.6	1775.0	749.4	65.4	-1263.4	3047.1
13	8	3.55	-6220.9	1775.0	749.4	65.4	-777.4	3145.4

DESCRIZIONE TABELLA PRESSIONI SUL TERRENO

ELEM. numero dell' elemento trave
n.ro
x ascissa locale misurata dal nodo I al nodo J
Pstat pressione sul terreno dovuta ai carichi statici p.to x
Psis1 pressione sul terreno dovuta al sisma agente in dir. 1
Psis2 pressione sul terreno dovuta al sisma agente in dir. 2

P(stat+sis1) combinazione Pstat +- Psis1
P(stat+sis2) combinazione Pstat +- Psis2

Convenzioni segni e simboli:
compressioni : segno - (negative)
|Psis1| : valore assoluto di Psis1 etc.

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RISULTATI: COMB.SISMICHE: PRESSIONI TERRENO TRAVI DI FONDAZIONE

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ELEM.	ascissa (m)	Pstat (Kg/cm2)	Psis1 (Kg/cm2)	Psis2 (Kg/cm2)	P(stat+sis1) (Kg/cm2)	P(stat+sis2) (Kg/cm2)
1	0.00	0.39	0.18	0.22	0.57	0.61
1	0.19	0.38	0.16	0.21	0.54	0.59
1	0.37	0.37	0.15	0.19	0.52	0.57
1	0.56	0.37	0.13	0.18	0.50	0.54
1	0.75	0.36	0.12	0.17	0.48	0.53
1	0.94	0.35	0.11	0.15	0.46	0.51
1	1.12	0.35	0.10	0.14	0.45	0.49
1	1.31	0.35	0.09	0.13	0.44	0.48
1	1.50	0.34	0.08	0.12	0.43	0.47
1	1.68	0.34	0.08	0.11	0.42	0.46
1	1.87	0.34	0.07	0.11	0.41	0.45
1	2.06	0.34	0.07	0.10	0.41	0.44
1	2.25	0.34	0.06	0.09	0.40	0.44
1	2.43	0.34	0.06	0.09	0.40	0.43
1	2.62	0.35	0.05	0.09	0.40	0.43
1	2.81	0.35	0.05	0.08	0.40	0.43
1	2.99	0.35	0.04	0.08	0.39	0.43
1	3.18	0.35	0.04	0.08	0.39	0.43
1	3.37	0.36	0.03	0.08	0.39	0.43
1	3.56	0.36	0.03	0.08	0.38	0.43
2	0.00	0.36	0.03	0.08	0.38	0.43
2	0.15	0.36	0.03	0.08	0.38	0.44
2	0.30	0.36	0.03	0.08	0.39	0.44
2	0.45	0.36	0.04	0.09	0.40	0.44
2	0.59	0.36	0.04	0.09	0.40	0.45
2	0.74	0.36	0.05	0.10	0.41	0.45
2	0.89	0.36	0.06	0.10	0.41	0.46
2	1.04	0.36	0.06	0.11	0.42	0.46
2	1.19	0.36	0.07	0.11	0.43	0.47
2	1.34	0.36	0.08	0.12	0.43	0.48
2	1.49	0.36	0.09	0.13	0.44	0.48
2	1.64	0.36	0.10	0.14	0.45	0.49
2	1.78	0.36	0.11	0.15	0.46	0.50
2	1.93	0.36	0.12	0.15	0.47	0.51
2	2.08	0.36	0.13	0.16	0.49	0.52
2	2.23	0.36	0.14	0.17	0.50	0.54
2	2.38	0.36	0.15	0.19	0.52	0.55
2	2.53	0.37	0.17	0.20	0.53	0.56
2	2.68	0.37	0.18	0.21	0.55	0.58
2	2.83	0.37	0.20	0.22	0.57	0.59
3	0.00	0.39	0.18	0.22	0.57	0.61
3	0.22	0.37	0.17	0.19	0.54	0.56
3	0.44	0.36	0.15	0.16	0.51	0.52
3	0.66	0.34	0.14	0.14	0.48	0.48
3	0.87	0.33	0.13	0.12	0.46	0.45
3	1.09	0.32	0.12	0.10	0.44	0.42
3	1.31	0.31	0.11	0.08	0.42	0.39
3	1.53	0.30	0.10	0.06	0.40	0.37
3	1.75	0.30	0.10	0.05	0.39	0.35
3	1.97	0.29	0.09	0.03	0.38	0.33
3	2.18	0.29	0.09	0.03	0.38	0.33
3	2.40	0.30	0.10	0.05	0.39	0.34
3	2.62	0.30	0.10	0.06	0.40	0.37

3	2.84	0.31	0.11	0.08	0.42	0.39
3	3.06	0.32	0.12	0.10	0.43	0.42
3	3.28	0.33	0.13	0.12	0.46	0.45
3	3.49	0.34	0.14	0.14	0.48	0.48
3	3.71	0.35	0.15	0.17	0.51	0.52
3	3.93	0.37	0.17	0.19	0.53	0.56
3	4.15	0.38	0.18	0.22	0.56	0.60
4	0.00	0.36	0.03	0.08	0.38	0.43
4	0.22	0.33	0.02	0.05	0.35	0.38
4	0.44	0.31	0.01	0.03	0.32	0.34
4	0.66	0.28	0.01	0.02	0.29	0.30
4	0.87	0.26	0.01	0.01	0.26	0.26
4	1.09	0.24	0.00	0.00	0.24	0.24
4	1.31	0.22	0.00	0.01	0.22	0.22
4	1.53	0.21	0.00	0.01	0.21	0.21
4	1.75	0.20	0.00	0.00	0.20	0.20
4	1.97	0.19	0.00	0.00	0.20	0.19
4	2.18	0.19	0.00	0.00	0.20	0.19
4	2.40	0.20	0.00	0.01	0.20	0.20
4	2.62	0.20	0.00	0.01	0.21	0.21
4	2.84	0.22	0.00	0.01	0.22	0.22
4	3.06	0.23	0.00	0.00	0.24	0.24
4	3.28	0.25	0.01	0.01	0.26	0.26
4	3.49	0.28	0.01	0.02	0.28	0.29
4	3.71	0.30	0.01	0.03	0.31	0.33
4	3.93	0.33	0.02	0.05	0.35	0.38
4	4.15	0.35	0.03	0.08	0.38	0.43
5	0.00	0.37	0.20	0.22	0.57	0.59
5	0.22	0.35	0.18	0.19	0.54	0.55
5	0.44	0.34	0.17	0.17	0.51	0.51
5	0.66	0.33	0.16	0.14	0.48	0.47
5	0.87	0.31	0.14	0.12	0.46	0.44
5	1.09	0.30	0.13	0.10	0.44	0.41
5	1.31	0.30	0.12	0.09	0.42	0.38
5	1.53	0.29	0.12	0.07	0.40	0.36
5	1.75	0.28	0.11	0.05	0.39	0.34
5	1.97	0.28	0.10	0.04	0.38	0.32
5	2.18	0.28	0.10	0.04	0.38	0.32
5	2.40	0.28	0.11	0.05	0.39	0.34
5	2.62	0.29	0.12	0.07	0.40	0.36
5	2.84	0.29	0.12	0.09	0.42	0.38
5	3.06	0.30	0.13	0.10	0.43	0.41
5	3.28	0.31	0.14	0.12	0.46	0.43
5	3.49	0.32	0.16	0.14	0.48	0.47
5	3.71	0.34	0.17	0.17	0.50	0.50
5	3.93	0.35	0.18	0.19	0.53	0.54
5	4.15	0.36	0.20	0.22	0.56	0.58
6	0.00	0.38	0.18	0.22	0.56	0.60
6	0.19	0.37	0.16	0.21	0.54	0.58
6	0.37	0.37	0.15	0.19	0.52	0.56
6	0.56	0.36	0.13	0.18	0.49	0.54
6	0.75	0.35	0.12	0.17	0.48	0.52
6	0.94	0.35	0.11	0.15	0.46	0.50
6	1.12	0.34	0.10	0.14	0.44	0.49
6	1.31	0.34	0.09	0.13	0.43	0.47
6	1.50	0.34	0.08	0.12	0.42	0.46
6	1.68	0.34	0.08	0.11	0.41	0.45
6	1.87	0.33	0.07	0.11	0.41	0.44
6	2.06	0.34	0.07	0.10	0.40	0.44
6	2.25	0.34	0.06	0.09	0.40	0.43
6	2.43	0.34	0.06	0.09	0.39	0.43
6	2.62	0.34	0.05	0.09	0.39	0.43
6	2.81	0.34	0.05	0.08	0.39	0.43
6	2.99	0.35	0.04	0.08	0.39	0.43
6	3.18	0.35	0.04	0.08	0.39	0.43

DESCRIZIONE TABELLA SOLLECITAZIONI TRAVI E PILASTRI

Oltre ai modi propri, calcolati con l'analisi dinamica modale, si considera un extra-modo (identificato con il numero: n.ro modi + 1) che contiene i cosiddetti 'valori efficaci' (i.e radice quadrata delle somma dei quadrati della sollecitazione considerata).

Per la descrizione delle convenzioni usate per il segno delle azioni interne, si rimanda alla documentazione fornita con il programma.

ELEM. / PERM.		ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
13	1	0.00	-3470.3	607.6	1541.2	22.6	2514.8	909.2
13	1	3.55	-2915.6	607.6	1541.2	22.6	2756.0	1139.2
13	2	0.00	-3470.3	607.6	1541.2	22.6	2514.8	-1018.2
13	2	3.55	-2915.6	607.6	1541.2	22.6	2756.0	-621.8
13	3	0.00	-3470.3	607.6	1541.2	22.6	-2715.4	-1018.2

13	3	3.55	-2915.6	607.6	1541.2	22.6	-2136.6	-621.8
13	4	0.00	-3470.3	607.6	1541.2	22.6	-2715.4	909.2
13	4	3.55	-2915.6	607.6	1541.2	22.6	-2136.6	1139.2
13	5	0.00	-6509.6	607.6	1541.2	22.6	2514.8	909.2
13	5	3.55	-5954.9	607.6	1541.2	22.6	2756.0	1139.2
13	6	0.00	-6509.6	607.6	1541.2	22.6	2514.8	-1018.2
13	6	3.55	-5954.9	607.6	1541.2	22.6	2756.0	-621.8
13	7	0.00	-6509.6	607.6	1541.2	22.6	-2715.4	-1018.2
13	7	3.55	-5954.9	607.6	1541.2	22.6	-2136.6	-621.8
13	8	0.00	-6509.6	607.6	1541.2	22.6	-2715.4	909.2
13	8	3.55	-5954.9	607.6	1541.2	22.6	-2136.6	1139.2

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RISULTATI: SISMA DIR.1 COMB.SISMICHE: SOLLECITAZIONI PILASTRATA 2 CON PERMUTAZIONI

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ELEM./ PERM.		ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
12	1	0.00	-7804.3	311.4	1626.7	22.9	2871.9	683.4
12	1	3.55	-7249.6	311.4	1626.7	22.9	2656.3	530.5
12	2	0.00	-7804.3	311.4	1626.7	22.9	2871.9	-575.1
12	2	3.55	-7249.6	311.4	1626.7	22.9	2656.3	-281.0
12	3	0.00	-7804.3	311.4	1626.7	22.9	-2739.0	-575.1
12	3	3.55	-7249.6	311.4	1626.7	22.9	-2902.8	-281.0
12	4	0.00	-7804.3	311.4	1626.7	22.9	-2739.0	683.4
12	4	3.55	-7249.6	311.4	1626.7	22.9	-2902.8	530.5
12	5	0.00	-8472.6	311.4	1626.7	22.9	2871.9	683.4
12	5	3.55	-7918.0	311.4	1626.7	22.9	2656.3	530.5
12	6	0.00	-8472.6	311.4	1626.7	22.9	2871.9	-575.1
12	6	3.55	-7918.0	311.4	1626.7	22.9	2656.3	-281.0
12	7	0.00	-8472.6	311.4	1626.7	22.9	-2739.0	-575.1
12	7	3.55	-7918.0	311.4	1626.7	22.9	-2902.8	-281.0
12	8	0.00	-8472.6	311.4	1626.7	22.9	-2739.0	683.4
12	8	3.55	-7918.0	311.4	1626.7	22.9	-2902.8	530.5

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RISULTATI: SISMA DIR.1 COMB.SISMICHE: SOLLECITAZIONI PILASTRATA 3 CON PERMUTAZIONI

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ELEM./ PERM.		ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
11	1	0.00	-2364.7	498.5	1466.2	22.8	2630.4	711.4
11	1	3.55	-1810.0	498.5	1466.2	22.8	2273.3	950.3
11	2	0.00	-2364.7	498.5	1466.2	22.8	2630.4	-823.5
11	2	3.55	-1810.0	498.5	1466.2	22.8	2273.3	-437.4
11	3	0.00	-2364.7	498.5	1466.2	22.8	-2491.4	-823.5
11	3	3.55	-1810.0	498.5	1466.2	22.8	-2574.7	-437.4
11	4	0.00	-2364.7	498.5	1466.2	22.8	-2491.4	711.4
11	4	3.55	-1810.0	498.5	1466.2	22.8	-2574.7	950.3
11	5	0.00	-5857.2	498.5	1466.2	22.8	2630.4	711.4

11	5	3.55	-5302.5	498.5	1466.2	22.8	2273.3	950.3
11	6	0.00	-5857.2	498.5	1466.2	22.8	2630.4	-823.5
11	6	3.55	-5302.5	498.5	1466.2	22.8	2273.3	-437.4
11	7	0.00	-5857.2	498.5	1466.2	22.8	-2491.4	-823.5
11	7	3.55	-5302.5	498.5	1466.2	22.8	-2574.7	-437.4
11	8	0.00	-5857.2	498.5	1466.2	22.8	-2491.4	711.4
11	8	3.55	-5302.5	498.5	1466.2	22.8	-2574.7	950.3

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RISULTATI: SISMA DIR.1 COMB.SISMICHE: SOLLECITAZIONI PILASTRATA 4 CON PERMUTAZIONI

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ELEM./		ascissa	N	V2	V3	T	M2	M3
PERM.		(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)
8	1	0.00	-3471.5	619.1	1551.5	22.6	2533.3	1039.6
8	1	3.55	-2916.9	619.1	1551.5	22.6	2773.9	639.6
8	2	0.00	-3471.5	619.1	1551.5	22.6	2533.3	-928.5
8	2	3.55	-2916.9	619.1	1551.5	22.6	2773.9	-1158.4
8	3	0.00	-3471.5	619.1	1551.5	22.6	-2733.8	-928.5
8	3	3.55	-2916.9	619.1	1551.5	22.6	-2154.1	-1158.4
8	4	0.00	-3471.5	619.1	1551.5	22.6	-2733.8	1039.6
8	4	3.55	-2916.9	619.1	1551.5	22.6	-2154.1	639.6
8	5	0.00	-6509.6	619.1	1551.5	22.6	2533.3	1039.6
8	5	3.55	-5954.9	619.1	1551.5	22.6	2773.9	639.6
8	6	0.00	-6509.6	619.1	1551.5	22.6	2533.3	-928.5
8	6	3.55	-5954.9	619.1	1551.5	22.6	2773.9	-1158.4
8	7	0.00	-6509.6	619.1	1551.5	22.6	-2733.8	-928.5
8	7	3.55	-5954.9	619.1	1551.5	22.6	-2154.1	-1158.4
8	8	0.00	-6509.6	619.1	1551.5	22.6	-2733.8	1039.6
8	8	3.55	-5954.9	619.1	1551.5	22.6	-2154.1	639.6

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RISULTATI: SISMA DIR.1 COMB.SISMICHE: SOLLECITAZIONI PILASTRATA 5 CON PERMUTAZIONI

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ELEM./		ascissa	N	V2	V3	T	M2	M3
PERM.		(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)
9	1	0.00	-7800.8	310.7	1637.9	22.9	2891.8	573.6
9	1	3.55	-7246.1	310.7	1637.9	22.9	2676.2	281.6
9	2	0.00	-7800.8	310.7	1637.9	22.9	2891.8	-688.3
9	2	3.55	-7246.1	310.7	1637.9	22.9	2676.2	-529.3
9	3	0.00	-7800.8	310.7	1637.9	22.9	-2759.1	-688.3
9	3	3.55	-7246.1	310.7	1637.9	22.9	-2922.6	-529.3
9	4	0.00	-7800.8	310.7	1637.9	22.9	-2759.1	573.6
9	4	3.55	-7246.1	310.7	1637.9	22.9	-2922.6	281.6
9	5	0.00	-8473.9	310.7	1637.9	22.9	2891.8	573.6
9	5	3.55	-7919.3	310.7	1637.9	22.9	2676.2	281.6
9	6	0.00	-8473.9	310.7	1637.9	22.9	2891.8	-688.3
9	6	3.55	-7919.3	310.7	1637.9	22.9	2676.2	-529.3
9	7	0.00	-8473.9	310.7	1637.9	22.9	-2759.1	-688.3

9	7	3.55	-7919.3	310.7	1637.9	22.9	-2922.6	-529.3
9	8	0.00	-8473.9	310.7	1637.9	22.9	-2759.1	573.6
9	8	3.55	-7919.3	310.7	1637.9	22.9	-2922.6	281.6

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RISULTATI: SISMA DIR.1 COMB.SISMICHE: SOLLECITAZIONI PILASTRATA 6 CON PERMUTAZIONI

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ELEM./		ascissa	N	V2	V3	T	M2	M3
PERM.		(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)
10	1	0.00	-2373.6	519.6	1476.6	22.7	2649.1	863.0
10	1	3.55	-1818.9	519.6	1476.6	22.7	2290.8	466.8
10	2	0.00	-2373.6	519.6	1476.6	22.7	2649.1	-748.2
10	2	3.55	-1818.9	519.6	1476.6	22.7	2290.8	-981.5
10	3	0.00	-2373.6	519.6	1476.6	22.7	-2509.7	-748.2
10	3	3.55	-1818.9	519.6	1476.6	22.7	-2592.8	-981.5
10	4	0.00	-2373.6	519.6	1476.6	22.7	-2509.7	863.0
10	4	3.55	-1818.9	519.6	1476.6	22.7	-2592.8	466.8
10	5	0.00	-5850.0	519.6	1476.6	22.7	2649.1	863.0
10	5	3.55	-5295.3	519.6	1476.6	22.7	2290.8	466.8
10	6	0.00	-5850.0	519.6	1476.6	22.7	2649.1	-748.2
10	6	3.55	-5295.3	519.6	1476.6	22.7	2290.8	-981.5
10	7	0.00	-5850.0	519.6	1476.6	22.7	-2509.7	-748.2
10	7	3.55	-5295.3	519.6	1476.6	22.7	-2592.8	-981.5
10	8	0.00	-5850.0	519.6	1476.6	22.7	-2509.7	863.0
10	8	3.55	-5295.3	519.6	1476.6	22.7	-2592.8	466.8

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RISULTATI: SISMA DIR.2 COMB.SISMICHE: SOLLECITAZIONI PILASTRATA 1 CON PERMUTAZIONI

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ELEM./		ascissa	N	V2	V3	T	M2	M3
PERM.		(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)
13	1	0.00	-3204.2	1775.0	749.4	65.4	1062.8	3047.1
13	1	3.55	-2649.5	1775.0	749.4	65.4	1396.9	3145.4
13	2	0.00	-3204.2	1775.0	749.4	65.4	1062.8	-3156.1
13	2	3.55	-2649.5	1775.0	749.4	65.4	1396.9	-2628.0
13	3	0.00	-3204.2	1775.0	749.4	65.4	-1263.4	-3156.1
13	3	3.55	-2649.5	1775.0	749.4	65.4	-777.4	-2628.0
13	4	0.00	-3204.2	1775.0	749.4	65.4	-1263.4	3047.1
13	4	3.55	-2649.5	1775.0	749.4	65.4	-777.4	3145.4
13	5	0.00	-6775.6	1775.0	749.4	65.4	1062.8	3047.1
13	5	3.55	-6220.9	1775.0	749.4	65.4	1396.9	3145.4
13	6	0.00	-6775.6	1775.0	749.4	65.4	1062.8	-3156.1
13	6	3.55	-6220.9	1775.0	749.4	65.4	1396.9	-2628.0
13	7	0.00	-6775.6	1775.0	749.4	65.4	-1263.4	-3156.1
13	7	3.55	-6220.9	1775.0	749.4	65.4	-777.4	-2628.0
13	8	0.00	-6775.6	1775.0	749.4	65.4	-1263.4	3047.1
13	8	3.55	-6220.9	1775.0	749.4	65.4	-777.4	3145.4

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RISULTATI: SISMA DIR.2 COMB.SISMICHE: SOLLECITAZIONI PILASTRATA 2 CON PERMUTAZIONI

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ELEM./ PERM.		ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
12	1	0.00	-7767.8	981.0	697.4	66.3	1214.1	2130.2
12	1	3.55	-7213.2	981.0	697.4	66.3	1015.0	1460.7
12	2	0.00	-7767.8	981.0	697.4	66.3	1214.1	-2021.9
12	2	3.55	-7213.2	981.0	697.4	66.3	1015.0	-1211.3
12	3	0.00	-7767.8	981.0	697.4	66.3	-1081.2	-2021.9
12	3	3.55	-7213.2	981.0	697.4	66.3	-1261.5	-1211.3
12	4	0.00	-7767.8	981.0	697.4	66.3	-1081.2	2130.2
12	4	3.55	-7213.2	981.0	697.4	66.3	-1261.5	1460.7
12	5	0.00	-8509.1	981.0	697.4	66.3	1214.1	2130.2
12	5	3.55	-7954.4	981.0	697.4	66.3	1015.0	1460.7
12	6	0.00	-8509.1	981.0	697.4	66.3	1214.1	-2021.9
12	6	3.55	-7954.4	981.0	697.4	66.3	1015.0	-1211.3
12	7	0.00	-8509.1	981.0	697.4	66.3	-1081.2	-2021.9
12	7	3.55	-7954.4	981.0	697.4	66.3	-1261.5	-1211.3
12	8	0.00	-8509.1	981.0	697.4	66.3	-1081.2	2130.2
12	8	3.55	-7954.4	981.0	697.4	66.3	-1261.5	1460.7

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RISULTATI: SISMA DIR.2 COMB.SISMICHE: SOLLECITAZIONI PILASTRATA 3 CON PERMUTAZIONI

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ELEM./ PERM.		ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
11	1	0.00	-2322.2	1417.0	610.1	65.9	1068.5	2398.7
11	1	3.55	-1767.6	1417.0	610.1	65.9	795.8	2520.9
11	2	0.00	-2322.2	1417.0	610.1	65.9	1068.5	-2510.8
11	2	3.55	-1767.6	1417.0	610.1	65.9	795.8	-2008.0
11	3	0.00	-2322.2	1417.0	610.1	65.9	-929.5	-2510.8
11	3	3.55	-1767.6	1417.0	610.1	65.9	-1097.2	-2008.0
11	4	0.00	-2322.2	1417.0	610.1	65.9	-929.5	2398.7
11	4	3.55	-1767.6	1417.0	610.1	65.9	-1097.2	2520.9
11	5	0.00	-5899.7	1417.0	610.1	65.9	1068.5	2398.7
11	5	3.55	-5345.0	1417.0	610.1	65.9	795.8	2520.9
11	6	0.00	-5899.7	1417.0	610.1	65.9	1068.5	-2510.8
11	6	3.55	-5345.0	1417.0	610.1	65.9	795.8	-2008.0
11	7	0.00	-5899.7	1417.0	610.1	65.9	-929.5	-2510.8
11	7	3.55	-5345.0	1417.0	610.1	65.9	-1097.2	-2008.0
11	8	0.00	-5899.7	1417.0	610.1	65.9	-929.5	2398.7
11	8	3.55	-5345.0	1417.0	610.1	65.9	-1097.2	2520.9

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RISULTATI: SISMA DIR.2 COMB.SISMICHE: SOLLECITAZIONI PILASTRATA 4 CON PERMUTAZIONI

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ELEM./		ascissa	N	V2	V3	T	M2	M3
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PERM.		(m)	(Kg)	(Kg)	(Kg)	(Kg*m)	(Kg*m)	(Kg*m)
8	1	0.00	-3206.5	1778.8	753.6	65.5	1070.4	3163.2
8	1	3.55	-2651.8	1778.8	753.6	65.5	1404.3	2632.9
8	2	0.00	-3206.5	1778.8	753.6	65.5	1070.4	-3052.1
8	2	3.55	-2651.8	1778.8	753.6	65.5	1404.3	-3151.7
8	3	0.00	-3206.5	1778.8	753.6	65.5	-1271.0	-3052.1
8	3	3.55	-2651.8	1778.8	753.6	65.5	-784.5	-3151.7
8	4	0.00	-3206.5	1778.8	753.6	65.5	-1271.0	3163.2
8	4	3.55	-2651.8	1778.8	753.6	65.5	-784.5	2632.9
8	5	0.00	-6774.6	1778.8	753.6	65.5	1070.4	3163.2
8	5	3.55	-6219.9	1778.8	753.6	65.5	1404.3	2632.9
8	6	0.00	-6774.6	1778.8	753.6	65.5	1070.4	-3052.1
8	6	3.55	-6219.9	1778.8	753.6	65.5	1404.3	-3151.7
8	7	0.00	-6774.6	1778.8	753.6	65.5	-1271.0	-3052.1
8	7	3.55	-6219.9	1778.8	753.6	65.5	-784.5	-3151.7
8	8	0.00	-6774.6	1778.8	753.6	65.5	-1271.0	3163.2
8	8	3.55	-6219.9	1778.8	753.6	65.5	-784.5	2632.9

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RISULTATI: SISMA DIR.2 COMB.SISMICHE: SOLLECITAZIONI PILASTRATA 5 CON PERMUTAZIONI

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ELEM./ PERM.		ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
9	1	0.00	-7766.5	979.5	701.5	66.3	1221.5	2017.9
9	1	3.55	-7211.8	979.5	701.5	66.3	1022.5	1211.7
9	2	0.00	-7766.5	979.5	701.5	66.3	1221.5	-2132.6
9	2	3.55	-7211.8	979.5	701.5	66.3	1022.5	-1459.4
9	3	0.00	-7766.5	979.5	701.5	66.3	-1088.8	-2132.6
9	3	3.55	-7211.8	979.5	701.5	66.3	-1269.0	-1459.4
9	4	0.00	-7766.5	979.5	701.5	66.3	-1088.8	2017.9
9	4	3.55	-7211.8	979.5	701.5	66.3	-1269.0	1211.7
9	5	0.00	-8508.2	979.5	701.5	66.3	1221.5	2017.9
9	5	3.55	-7953.5	979.5	701.5	66.3	1022.5	1211.7
9	6	0.00	-8508.2	979.5	701.5	66.3	1221.5	-2132.6
9	6	3.55	-7953.5	979.5	701.5	66.3	1022.5	-1459.4
9	7	0.00	-8508.2	979.5	701.5	66.3	-1088.8	-2132.6
9	7	3.55	-7953.5	979.5	701.5	66.3	-1269.0	-1459.4
9	8	0.00	-8508.2	979.5	701.5	66.3	-1088.8	2017.9
9	8	3.55	-7953.5	979.5	701.5	66.3	-1269.0	1211.7

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RISULTATI: SISMA DIR.2 COMB.SISMICHE: SOLLECITAZIONI PILASTRATA 6 CON PERMUTAZIONI

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ELEM./ PERM.		ascissa (m)	N (Kg)	V2 (Kg)	V3 (Kg)	T (Kg*m)	M2 (Kg*m)	M3 (Kg*m)
10	1	0.00	-2322.5	1424.0	613.6	65.9	1074.9	2523.9
10	1	3.55	-1767.8	1424.0	613.6	65.9	801.5	2016.4
10	2	0.00	-2322.5	1424.0	613.6	65.9	1074.9	-2409.1

10	2	3.55	-1767.8	1424.0	613.6	65.9	801.5	-2531.2
10	3	0.00	-2322.5	1424.0	613.6	65.9	-935.5	-2409.1
10	3	3.55	-1767.8	1424.0	613.6	65.9	-1103.4	-2531.2
10	4	0.00	-2322.5	1424.0	613.6	65.9	-935.5	2523.9
10	4	3.55	-1767.8	1424.0	613.6	65.9	-1103.4	2016.4
10	5	0.00	-5901.1	1424.0	613.6	65.9	1074.9	2523.9
10	5	3.55	-5346.4	1424.0	613.6	65.9	801.5	2016.4
10	6	0.00	-5901.1	1424.0	613.6	65.9	1074.9	-2409.1
10	6	3.55	-5346.4	1424.0	613.6	65.9	801.5	-2531.2
10	7	0.00	-5901.1	1424.0	613.6	65.9	-935.5	-2409.1
10	7	3.55	-5346.4	1424.0	613.6	65.9	-1103.4	-2531.2
10	8	0.00	-5901.1	1424.0	613.6	65.9	-935.5	2523.9
10	8	3.55	-5346.4	1424.0	613.6	65.9	-1103.4	2016.4

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RISULTATI: COMB.SISMICHE: REAZIONI VINCOLARI

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NODO	Componente	Rstat (Kg per le REAZIONI	Rsis1 forza,	Rsis2 forza,	R (stat+sis1) Kg*m per le REAZIONI	R (stat+sis2) momento)	Rstat+SQRT(Rsis1,Rsis2)
1	Fx	115.50	-1357.31	-209.30	-1241.81	-93.80	1488.85
	Fy	88.22	-10.60	-1652.46	77.62	-1564.24	1740.72
	Fz	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	Mx	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	My	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	Mz	0.00	-0.00	-0.00	-0.00	-0.00	0.00
2	Fx	-53.44	-1516.46	-165.06	1463.02	111.62	-1578.86
	Fy	19.88	-2.19	-958.67	17.70	-938.79	978.56
	Fz	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	Mx	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	My	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	Mz	0.00	-0.00	-0.00	-0.00	-0.00	0.00
3	Fx	-62.04	-1362.04	-129.72	1300.00	67.68	-1430.24
	Fy	88.03	-9.75	-1256.46	78.27	-1168.44	1344.53
	Fz	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	Mx	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	My	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	Mz	0.00	-0.00	-0.00	-0.00	-0.00	0.00
4	Fx	-62.16	-1372.99	-129.84	1310.83	67.68	-1441.28
	Fy	-88.67	-28.67	-1256.36	-60.00	1167.69	-1345.35
	Fz	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	Mx	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	My	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	Mz	0.00	-0.00	-0.00	-0.00	-0.00	0.00
5	Fx	-53.40	-1527.86	-166.02	1474.46	112.62	-1590.25
	Fy	-18.76	-2.64	-958.21	-16.11	939.45	-976.97
	Fz	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	Mx	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	My	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	Mz	0.00	-0.00	-0.00	-0.00	-0.00	0.00
6	Fx	115.54	-1368.12	-210.79	-1252.57	-95.25	1499.80
	Fy	-88.71	-21.58	-1652.80	-67.13	1564.09	-1741.64
	Fz	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	Mx	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	My	0.00	-0.00	-0.00	-0.00	-0.00	0.00
	Mz	0.00	-0.00	-0.00	-0.00	-0.00	0.0

DESCRIZIONE TABELLA SOLLECITAZIONI TRAVI E PILASTRI

Di seguito si riportano le spiegazioni delle sigle usate nella tabella SOLLECITAZIONI TRAVI E PILASTRI.

Per ogni gruppo di elementi ed internamente ad esso, per ogni elemento ad esso appartenente e per ogni direzione del sisma considerata vengono riportate, secondo modalita' diverse da tipo a tipo di elemento, azioni e/o tensioni in punti caratteristici riferiti alla terna locale, esplicitando i contributi dei modi propri considerati.

Oltre ai modi propri, calcolati con l'analisi dinamica modale, si considera un extra-modo (identificato con il numero: $n.ro \text{ modi} + 1$) che contiene i cosiddetti 'valori efficaci' (i.e radice quadrata delle somma dei quadrati della sollecitazione considerata).

ELEM.	numero dell' elemento									
n.ro										
x	ascissa locale misurata dal nodo I al nodo J									
N	sforzo normale nel p.to x									
V2	forza di taglio ' ' ' in direz. 2 locale									
V3	forza di taglio ' ' ' ' 3 '									
T	momento torcente ' ' '									
M2	momento flettente ' ' ' intorno asse 2 locale									
M3	momento flettente ' ' ' ' 3 '									

Per la descrizione delle convenzioni usate per il segno delle azioni interne, si rimanda alla documentazione fornita con il programma.

RISULTATI : SOLLECITAZIONI INVILUPPO TRAVI SISMA DIR.1

ELEM. n.ro	ascissa (m)	N (Kg) min/max	V2 (Kg) min/max	V3 (Kg) min/max	T (Kg*m) min/max	M2 (Kg*m) min/max	M3 (Kg*m) min/max
1	0.00	0.0	1195.0	-5.5	40.8	-11.1	-2849.6
		0.0	3284.0	5.5	386.1	11.1	2647.5
1	3.56	0.0	1259.8	-5.5	40.8	-8.5	-688.3
		0.0	4965.2	5.5	386.1	8.5	3943.6
2	0.00	0.0	1170.3	-8.0	50.3	-10.0	619.9
		0.0	4427.1	8.0	521.6	10.0	2768.8
2	2.83	0.0	667.4	-8.0	50.3	-12.6	-2687.6
		0.0	2491.8	8.0	521.6	12.7	2549.3
3	0.00	0.0	1065.8	-5.4	-139.3	-11.4	-1388.9
		0.0	4435.0	5.4	140.8	11.4	852.9
3	4.15	0.0	1055.4	-5.4	-139.3	-11.1	-1348.9
		0.0	4421.5	5.4	140.8	11.1	870.0
4	0.00	0.0	1946.7	-2.1	-22.5	-4.4	-76.1
		0.0	2507.8	2.1	23.0	4.4	1183.3
4	4.15	0.0	1888.2	-2.1	-22.5	-4.2	-134.4
		0.0	2444.2	2.1	23.0	4.2	1108.5
5	0.00	0.0	709.3	-4.8	-140.0	-10.1	-1335.6
		0.0	4353.4	4.8	140.8	10.1	651.5
5	4.15	0.0	703.8	-4.8	-140.0	-9.7	-1295.8
		0.0	4345.5	4.8	140.8	9.7	689.4
6	0.00	0.0	1209.3	-5.7	46.0	-11.5	-2860.4
		0.0	3294.9	5.7	321.8	11.5	2661.3
6	3.56	0.0	1278.5	-5.7	46.0	-8.6	-666.9

		0.0	5007.1	5.7	321.8	8.6	3978.3
7	0.00	0.0	1194.1	-8.2	51.7	-10.1	642.8
		0.0	4462.6	8.2	439.9	10.1	2800.8
7	2.83	0.0	665.9	-8.2	51.7	-13.0	-2699.5
		0.0	2508.3	8.2	439.9	13.0	2559.3
14	0.00	-56.8	1747.0	-6.0	-119.9	-11.6	-2758.8
		2.0	3985.2	6.2	232.6	11.5	2139.5
14	3.56	-56.8	2944.8	-6.0	-119.9	-10.0	-3969.0
		2.0	5183.0	6.2	232.6	10.3	-908.5
15	0.00	-74.2	2193.2	-9.1	-163.4	-12.5	-3684.1
		45.8	4846.5	9.3	300.1	12.8	-946.9
15	2.83	-74.2	660.5	-9.1	-163.4	-13.4	-2555.4
		45.8	3313.8	9.3	300.1	13.3	2254.2
16	0.00	-32.4	1064.7	-5.3	-11.8	-11.0	-1358.9
		-23.0	2073.6	5.3	12.0	11.1	728.8
16	4.15	-32.4	1064.8	-5.3	-11.8	-11.0	-1373.3
		-23.0	2073.8	5.3	12.0	11.1	742.5
17	0.00	-40.2	1118.4	-4.5	-26.2	-9.4	-1247.7
		-23.2	2019.8	4.5	26.4	9.3	598.1
17	4.15	-40.2	1118.7	-4.5	-26.2	-9.5	-1273.2
		-23.2	2020.0	4.5	26.4	9.3	622.7
18	0.00	-57.2	1740.3	-6.0	-124.6	-11.4	-2774.6
		2.8	3992.8	6.2	236.6	11.6	2154.6
18	3.56	-57.2	2937.2	-6.0	-124.6	-10.3	-3977.5
		2.8	5189.7	6.2	236.6	10.0	-897.5
19	0.00	-74.9	2184.5	-9.1	-162.3	-12.8	-3692.0
		46.8	4853.9	9.3	298.1	12.5	-936.6
19	2.83	-74.9	653.0	-9.1	-162.3	-13.3	-2571.4
		46.8	3322.5	9.3	298.1	13.4	2269.2

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RISULTATI : SOLLECITAZIONI INVILUPPO PILASTRI SISMA DIR.1

=====

ELEM. n.ro	ascissa (m)	N (Kg) min/max	V2 (Kg) min/max	V3 (Kg) min/max	T (Kg*m) min/max	M2 (Kg*m) min/max	M3 (Kg*m) min/max
8	0.00	-6509.6	-441.7	-1320.4	-22.6	-2733.8	-928.5
		-3471.5	619.1	1551.5	22.6	2533.3	1039.6
8	3.55	-5954.9	-441.7	-1320.4	-22.6	-2154.1	-1158.4
		-2916.9	619.1	1551.5	22.6	2773.9	639.6
9	0.00	-8473.9	-273.2	-1531.1	-22.9	-2759.1	-688.3
		-7800.8	310.7	1637.9	22.9	2891.8	573.6
9	3.55	-7919.3	-273.2	-1531.1	-22.9	-2922.6	-529.3
		-7246.1	310.7	1637.9	22.9	2676.2	281.6
10	0.00	-5850.0	-342.2	-1352.2	-22.7	-2509.7	-748.2
		-2373.6	519.6	1476.6	22.7	2649.1	863.0
10	3.55	-5295.3	-342.2	-1352.2	-22.7	-2592.8	-981.5
		-1818.9	519.6	1476.6	22.7	2290.8	466.8
11	0.00	-5857.2	-322.4	-1342.2	-22.7	-2491.4	-823.5
		-2364.7	498.5	1466.2	22.8	2630.4	711.4
11	3.55	-5302.5	-322.4	-1342.2	-22.7	-2574.7	-437.4
		-1810.0	498.5	1466.2	22.8	2273.3	950.3
12	0.00	-8472.6	-271.7	-1519.8	-22.8	-2739.0	-575.1
		-7804.3	311.4	1626.7	22.9	2871.9	683.4
12	3.55	-7918.0	-271.7	-1519.8	-22.8	-2902.8	-281.0
		-7249.6	311.4	1626.7	22.9	2656.3	530.5

13	0.00	-6509.6	-431.1	-1310.2	-22.6	-2715.4	-1018.2
		-3470.3	607.6	1541.2	22.6	2514.8	909.2
13	3.55	-5954.9	-431.1	-1310.2	-22.6	-2136.6	-621.8
		-2915.6	607.6	1541.2	22.6	2756.0	1139.2

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RISULTATI : SOLLECITAZIONI INVILUPPO TRAVI SISMA DIR.2

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ELEM. n.ro	ascissa (m)	N (Kg) min/max	V2 (Kg) min/max	V3 (Kg) min/max	T (Kg*m) min/max	M2 (Kg*m) min/max	M3 (Kg*m) min/max
1	0.00	0.0	-39.3	-16.0	111.0	-32.3	-1698.4
		0.0	4518.3	16.0	315.9	32.3	1496.4
1	3.56	0.0	2006.6	-16.0	111.0	-24.5	-175.3
		0.0	4218.4	16.0	315.9	24.5	3430.5
2	0.00	0.0	1857.3	-23.2	106.8	-28.9	407.2
		0.0	3740.0	23.2	465.2	28.9	2981.5
2	2.83	0.0	-359.6	-23.2	106.8	-36.7	-1251.4
		0.0	3518.8	23.2	465.2	36.7	1113.2
3	0.00	0.0	1604.8	-15.7	-454.8	-33.2	-3430.1
		0.0	3896.1	15.7	456.2	33.2	2894.2
3	4.15	0.0	1593.3	-15.7	-454.8	-32.1	-3399.3
		0.0	3883.5	15.7	456.2	32.1	2920.4
4	0.00	0.0	1454.5	-6.0	-72.7	-12.8	-1391.8
		0.0	3000.1	6.0	73.2	12.8	2499.1
4	4.15	0.0	1386.2	-6.0	-72.7	-12.1	-1469.7
		0.0	2946.2	6.0	73.2	12.1	2443.8
5	0.00	0.0	1575.1	-13.8	-458.5	-29.2	-2953.1
		0.0	3487.6	13.8	459.2	29.2	2269.0
5	4.15	0.0	1576.3	-13.8	-458.5	-28.2	-2902.8
		0.0	3473.0	13.8	459.2	28.2	2296.4
6	0.00	0.0	-24.7	-16.4	97.5	-33.4	-1703.5
		0.0	4529.0	16.4	270.3	33.4	1504.4
6	3.56	0.0	2033.9	-16.4	97.5	-24.9	-140.5
		0.0	4251.8	16.4	270.3	24.9	3451.9
7	0.00	0.0	1879.5	-23.7	94.4	-29.2	446.5
		0.0	3777.2	23.7	397.3	29.2	2997.1
7	2.83	0.0	-350.4	-23.7	94.4	-37.7	-1249.4
		0.0	3524.6	23.7	397.3	37.7	1109.2
14	0.00	-106.1	2310.2	-17.6	-523.5	-33.4	-1404.5
		51.3	3422.0	17.7	636.3	33.3	785.2
14	3.56	-106.1	3508.1	-17.6	-523.5	-29.2	-3323.2
		51.3	4619.8	17.7	636.3	29.5	-1554.3
15	0.00	-95.3	3007.9	-26.7	-690.5	-36.7	-2966.0
		66.9	4031.8	26.9	827.2	37.0	-1665.0
15	2.83	-95.3	1475.2	-26.7	-690.5	-38.9	-1031.8
		66.9	2499.1	26.9	827.2	38.7	730.6
16	0.00	-29.1	-87.3	-15.5	-33.9	-32.0	-3751.3
		-26.2	3225.5	15.5	34.1	32.1	3121.1
16	4.15	-29.1	-87.1	-15.5	-33.9	-32.0	-3755.7
		-26.2	3225.7	15.5	34.1	32.1	3124.9
17	0.00	-34.3	113.1	-13.1	-82.6	-27.2	-3342.3
		-29.1	3025.1	13.1	82.9	27.0	2692.7

17	4.15	-34.3 -29.1	113.3 3025.3	-13.1 13.1	-82.6 82.9	-27.2 27.0	-3350.2 2699.7
18	0.00	-106.1 51.7	2307.4 3425.7	-17.6 17.7	-525.0 637.1	-33.3 33.4	-1411.6 791.6
18	3.56	-106.1 51.7	3504.3 4622.6	-17.6 17.7	-525.0 637.1	-29.5 29.2	-3326.6 -1548.4
19	0.00	-95.3 67.2	3008.0 4030.5	-26.7 26.9	-690.3 826.0	-37.0 36.7	-2964.3 -1664.2
19	2.83	-95.3 67.2	1476.5 2499.0	-26.7 26.9	-690.3 826.0	-38.7 38.9	-1036.6 734.4

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RISULTATI : SOLLECITAZIONI INVILUPPO PILASTRI SISMA DIR.2

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ELEM. n.ro	ascissa (m)	N (Kg) min/max	V2 (Kg) min/max	V3 (Kg) min/max	T (Kg*m) min/max	M2 (Kg*m) min/max	M3 (Kg*m) min/max
8	0.00	-6774.6 -3206.5	-1601.4 1778.8	-522.5 753.6	-65.4 65.5	-1271.0 1070.4	-3052.1 3163.2
8	3.55	-6219.9 -2651.8	-1601.4 1778.8	-522.5 753.6	-65.4 65.5	-784.5 1404.3	-3151.7 2632.9
9	0.00	-8508.2 -7766.5	-942.0 979.5	-594.7 701.5	-66.3 66.3	-1088.8 1221.5	-2132.6 2017.9
9	3.55	-7953.5 -7211.8	-942.0 979.5	-594.7 701.5	-66.3 66.3	-1269.0 1022.5	-1459.4 1211.7
10	0.00	-5901.1 -2322.5	-1246.6 1424.0	-489.3 613.6	-65.9 65.9	-935.5 1074.9	-2409.1 2523.9
10	3.55	-5346.4 -1767.8	-1246.6 1424.0	-489.3 613.6	-65.9 65.9	-1103.4 801.5	-2531.2 2016.4
11	0.00	-5899.7 -2322.2	-1241.0 1417.0	-486.0 610.1	-65.9 65.9	-929.5 1068.5	-2510.8 2398.7
11	3.55	-5345.0 -1767.6	-1241.0 1417.0	-486.0 610.1	-65.9 65.9	-1097.2 795.8	-2008.0 2520.9
12	0.00	-8509.1 -7767.8	-941.3 981.0	-590.5 697.4	-66.2 66.3	-1081.2 1214.1	-2021.9 2130.2
12	3.55	-7954.4 -7213.2	-941.3 981.0	-590.5 697.4	-66.2 66.3	-1261.5 1015.0	-1211.3 1460.7
13	0.00	-6775.6 -3204.2	-1598.6 1775.0	-518.4 749.4	-65.4 65.4	-1263.4 1062.8	-3156.1 3047.1
13	3.55	-6220.9 -2649.5	-1598.6 1775.0	-518.4 749.4	-65.4 65.4	-777.4 1396.9	-2628.0 3145.4