REGIONE SICILIANA	COMUNE DI CAMMARATA	COMUNE DI VILLALBA	COMUNE DI MUSSOMELI

Il Committente: NP Sicilia 4	NP Sicilia 4 S.r.l. Galleria Passarella, 2 20122 MILANO P.IVA - C.F. 12902920961
Il Progettista: Agon engineering Entrope srl	**dott. ing.** VITTORIO RANDAZZO Firmato digitalmente da: VITTORIO MARIA RANDAZZO **dott. ing.** VINCENZO DI MARCO Firmato digitalmente da: VINCENZO DI MARCO

Titolo del progetto:

PARCO EOLICO "SCRUDATO"
POTENZA NOMINALE 39,6 MW

Elaborato:	Codice Elaborato:
PROGETTO DEFINITIVO	**NPS4_CAM_D10_REL**

TITOLO ELABORATO:

RELAZIONE DI PREDIMENSIONAMENTO DELLE FONDAZIONI

FOGLIO:		SCALA:				FORMATO:	A4

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Agon Engineering
Piazza Trento n. 35, 93100
Caltanissetta (CL)

Dott. Ing. Vincenzo Di Marco, 3931507844, vdimarco@agonservizi.it
Dott. Ing. Vittorio Maria Randazzo, 3406003292, vrandazzo@agonservizi.it

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RELAZIONE TECNICA

OGGETTO: Predimensionamento opere di fondazione per il parco eolico "Scrudato" sito nel comune di Cammarata (AG) in C.da Macinella.

1. GENERALITA'.

La seguente relazione di calcolo preliminare si riferisce al plinto di fondazione della torre-aerogeneratore del tipo SG 6.6-170 da installarsi in agro del comune di Cammarata della provincia di Agrigento.

Tutte le calcolazioni sono state eseguite nel rispetto dei metodi della Scienza delle Costruzioni ed in ossequio alle normative attualmente vigenti. In particolare, il criterio di progettazione e verifica adottato è quello degli stati limite.

Il pre-dimensionamento geometrico delle opere in calcestruzzo armato e il progetto delle relative armature, ha come supporto le sollecitazioni al piede della torre fornite dal produttore dell'aerogeneratore.

Sulla scorta dei risultati delle prove sui terreni oggetto dell'intervento di che trattasi di cui alla relazione geologica redatta dal Dott. Geol. Giuseppe Massimo Volo si sono individuate le caratteristiche geotecniche degli stessi nonché la scelta della tipologia fondale da porre in essere. La quantificazione delle opere sarà eseguita in fase di progettazione esecutiva, a valle di una più dettagliata indagine geologica e geotecnica come previsto dalle normative vigenti.

Il rotore dell'aerogeneratore Siemens Gamesa SG 6.6-170 ha un diametro di 170 m, cui corrisponde un'area spazzata di circa 22.697,00 m^2.

Esso è costituito da tre pale rotoriche che sviluppano la potenza nominale effettiva di 6600 KW.

La turbina eolica è installata in sommità di una torre tubolare costituita da n. 4 elementi tronco-conici in acciaio di differenti dimensioni, che raggiungono un'altezza al mozzo di 115 ml o 135 ml ed un'altezza complessiva di 200 o 220 ml dal piano campagna.

2. DESCRIZIONE.

Il plinto calcolato è costituito da un prisma regolare a base circolare sormontato da un cilindro di cui di seguito si riportano le caratteristiche geometriche.

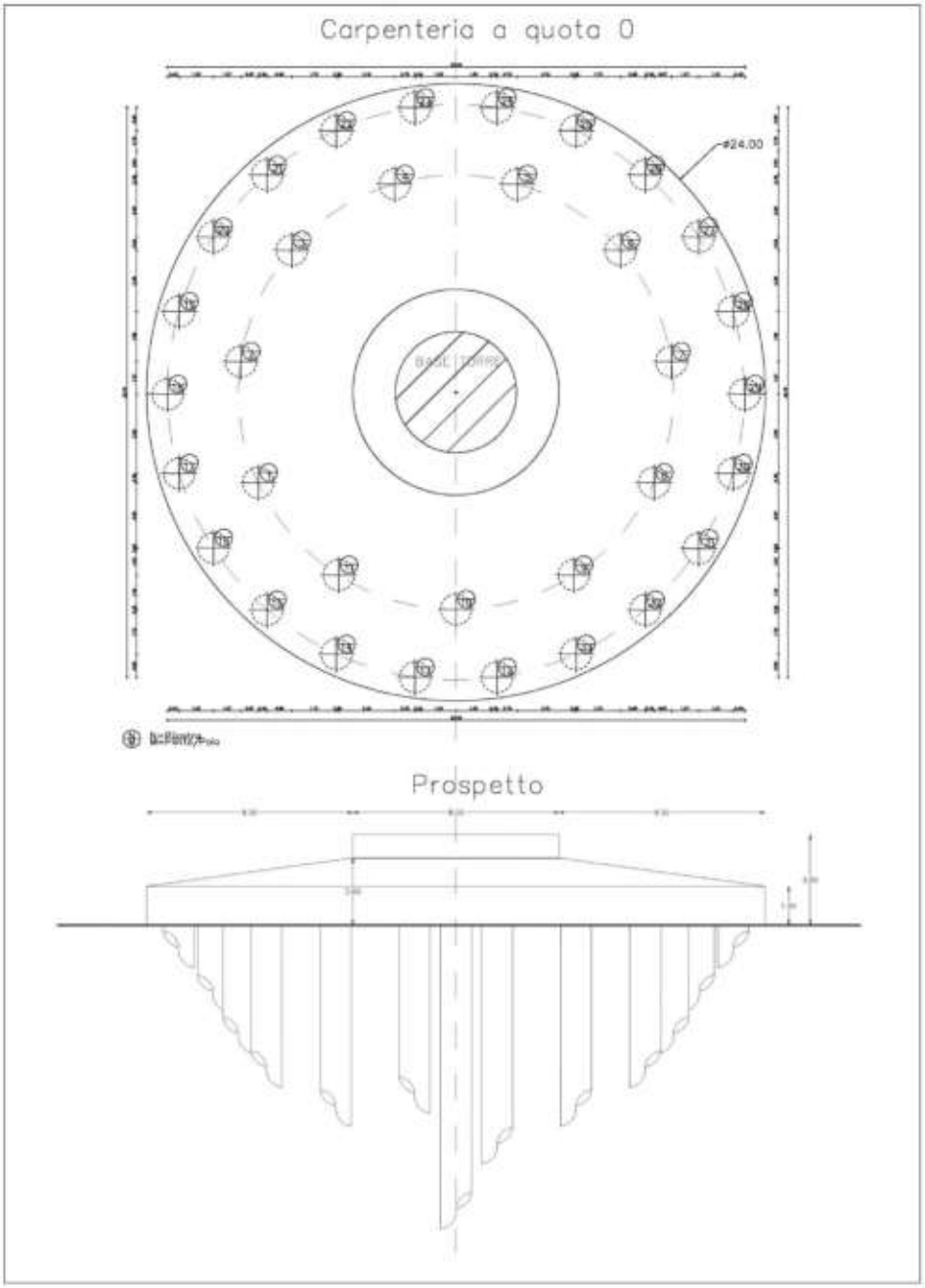


Figura 1

Sulla base delle caratteristiche dei terreni interessati, evidenziate dai risultati delle prove di cui alla relazione geologica a firma del dott. Volo, si ritiene opportuno porre il plinto di fondazione su fondazione indiretta costituita da n.33 pali dello Φ= 120 cm disposti su due file concentriche, disposti secondo la figura, ammorsati nei terreni fondali per 25,00 mt,. La distanza fra i pali della fila esterna e il centro della fondazione (Dext) è di 11,20 mt , mentre quella fra i pali della fila interna e il centro della fondazione (Dint) è di 8,44 mt. L'interasse tra i pali è pari a 3.20 mt. per la fila esterna e a 4.82 mt. per la fila interna.

Nell'esecuzione del progetto, nel calcolo strutturale, e nelle modalità di posa in opera si è fatto riferimento alla seguente normativa:

Legge 5 Novembre 1971 n.1086 (G.U. 21 dicembre 1971 n.321) "Norme per la disciplina delle opere di conglomerato cementizio armato, normale e precompresso ed a struttura metallica";
D.M. del 24/1/1986 - Norme tecniche relative alle costruzioni sismiche;
Legge 2 febbraio 1974 n.64 (G.U. 21 marzo 1974 n.76) "Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche" Indicazioni progettive per le nuove costruzioni in zone sismiche a cura del Ministero per la Ricerca scientifica - Roma 1981;
D.M. Infrastrutture Trasporti 14 gennaio 2008 (G.U. 4 febbraio 2008 n.29 - Suppl. Ord.) "Norme tecniche per le costruzioni" Inoltre, in mancanza di specifiche indicazioni, ad indicazione della norma precedente e per quanto con esse non in contrasto, sono state utilizzate le indicazioni contenute nella Circolare 2 febbraio 2009 n.617 del Ministero delle Infrastrutture e dei Trasporti (G.U. 26 febbraio 2009 n. 27 - Suppl. Ord.) "Istruzioni per l'applicazione delle 'Norme Tecniche per le costruzioni' di cui al D.M. 14 gennaio 2008" e successive modifiche ed integrazioni di cui al DM del 17/01/2018;
Circolare 2 febbraio 2009 n.617 del Ministero delle Infrastrutture e dei Trasporti (G.U. 26 febbraio 2009 n. 27 – Suppl. Ord.) "Istruzioni per l'applicazione delle 'Norme Tecniche per le costruzioni' di cui al D.M. 14 gennaio 2008" e successive modifiche ed integrazioni con la Circolare n.7 del 21/01/2019;
IEC 61400-1, 2° Edition, February 1999. Wind turbine generator system – Part 1:

Safety requirements ;

UNI 9858. Concrete. Performance, production, placing and compliance criteria.
UNI ENV 1992-1-1 del 31-01-1993 Eurocodice 2. Progettazione delle strutture di calcestruzzo.
Inoltre per il calcolo di progetto della torre di sostegno dell'aerogeneratore, eseguito dal produttore, le sollecitazioni massime sono state determinate sulla scorta di quanto previsto dalle:

1. EC_Ed3_NCV_00_08010000_A_10_07_17p0 per l'azione FXTB;
2. IEC_Ed3_NCV_60_01030000_A_05_12p0 per l'azione FYZTB;
3. EC_Ed3_NCV_60_01040000_B_02_01_01_11p0 per il momento MXTB;
4. IEC_Ed3_NCV_60_01030000_A_05_12p0 per il momento MYTB.

Per la struttura in esame, in riferimento ai carichi "Extreme Loads" inclusi l'azione sismica e la sicurezza, per analogia si sono utilizzati i carichi provenienti da strutture con analoghe caratteristiche, realizzate in siti con caratteristiche similari in termini di azioni (vento, sismica, ecc). In dettaglio:

Tabella 1

Load case	DLC Type	Load factor	F_{xy} (kN)	F_z (kN)	M_{xy} (kNm)	Mxy+ΔMxy (kNm)	M_z (kNm)
ULS without Psf	A	1.0	1498	6566	179651	185069	2231
ULS with Psf	A	1.1 0.9	1648	7222 5909	197616	**203034**	2454
ULS with Psf (Torsion)	N	1.35/1.1* 0.9	441	6985 * 5715	49389	54806	**18061**

Table 2 SG 6.6-170 T115-58B Factored/Unfactored Extreme loads at base of the tower

Il carico prodotto dal vento non sarà mai statico su una sola direzione, ma potrà variare su 360 gradi, per tale motivo nella progettazione delle armature si prende in considerazione la zona più sollecitata per il calcolo delle armature all'interno del plinto, armando in modo omogeneo (in senso radiale e concentrica) tutti i 360 gradi che compongono il plinto di fondazione.

Ai carichi verticali, oltre al peso della torre, della navicella e del rotore contemplati nella ipotesi di carico precedente, va sommato il peso del plinto di fondazione di entità non trascurabile.

Il software strutturale utilizzato, in automatico genera il peso proprio della struttura di fondazione, in base al materiale impiegato e alla geometria del plinto stabilita dal progettista.

In questa relazione di calcolo, avente come finalità il pre-dimensionamento delle strutture, è stata analizzata la condizione più gravosa.

I dati inseriti nel software strutturale, derivano dalla combinazione della condizione Extreme 6.1 con il peso proprio G1 moltiplicati per il coefficiente parziale 1.35, così come previsto dalla IEC 61400-1.

3. OPERE DI FONDAZIONE.

Come anticipato nei paragrafi precedenti le fondazioni saranno di tipo indiretto con pali dello Φ 120 cm ammorsati, superato il primo strato di terreno agrario dello spessore di circa 1,00 mt, nelle argille brecciate di colore nocciola per circa 4,50 mt e successivamente nelle argille brecciate grigio-azzurre fino a fondo foro.

La testa dei pali sarà ammorsata ad una plinto di fondazione di spessore variabile al cui culmine verrà collocata la torre-aerogeneratore . Detto plinto è stato discretizzato con elementi tipo shell di sezione variabile.

Per i terreni interessati dall'ammorsamento dei pali si sono utilizzati i seguenti valori:

1. Strato n.1 - Terreno agrario da mt 0,00 a mt. 1,00 ;
2. Strato n.2 - Argille brecciate di colore nocciola da mt 1,00 a mt. 4,50 :

- Peso per unità di volume (γ_a) = 1.947 [daN/m^3];
- Peso di volume saturo (γ_s) = 2.030 [daN/m^3];
- Angolo di attrito interno (φ')= 19,18°;
- Coesione non drenata (C_u)= 0,611 [daN/cm^2] ;
- Coesione drenata (C')= 0,319 [daN/cm^2] ;

3. Strato n.2 - Argille brecciate grigio-azzurre da mt 4,50 a mt. 20,00 :

- Peso per unità di volume (γ_a) = 1.997 [daN/m^3];
- Peso di volume saturo (γ_s) = 2.130 [daN/m^3];
- Angolo di attrito interno (φ')= 22,23°;
- Coesione non drenata (C_u)= 1,309 [daN/cm^2] ;
- Coesione drenata (C')= 0,471 [daN/cm^2] ;

Materiali utilizzati :

1. Plinto di fondazione.

Calcestruzzo classe C40/50 :

- P <daN/mc>2500 ;
- E <daN/cmq>355471.00;
- G <daN/cmq>161578.00;
- ν =0.1;
- α= 1.00E-05.

Tipo di acciaio B450C:

- E <daN/cmq>2060000.00;
- F_{yk} <daN/cmq> 4500

2. Pali di fondazione.

Calcestruzzo classe C30/37 :

- P <daN/mc>2500 ;
- E <daN/cmq>330194.00;
- G <daN/cmq>159036.00;
- ν =0.1;
- α= 1.00E-05.

Tipo di acciaio B450C:

- E <daN/cmq>2060000.00;
- F_{yk} <daN/cmq> 4500

Per i dettagli vedasi la relazione geologica e la relazione di calcolo allegate.

4. CARATTERISTICHE DEL PROGRAMMA DI CALCOLO E PROGETTO DELLE ARMATURE.

4.1 Programma di calcolo

Si tratta di una procedura volta alla progettazione di strutture in c.a. in zona sismica e non, che si avvale come solutori dei programmi agli elementi finiti (F.E.M.) . Il plinto di fondazione è stato modellato con elementi di tipo bidimensionale (Shell), di spessore variabile, a comportamento flessionale-membranale.

La colonna stratigrafica inserita per il calcolo dello stato tensionale e deformativo dei pali di fondazione è dedotta dai valori riportati nella relazione geologica.

Il programma è rappresentato da un pre-processore per la generazione dei file di input del solutore agli elementi finiti e da un post-processore per il calcolo delle sezioni e la generazione delle armature secondo la legislazione vigente.

Le figure seguenti mostrano la struttura discretizzata secondo il modello di calcolo adottato:

VISTA ASSONOMETRICA

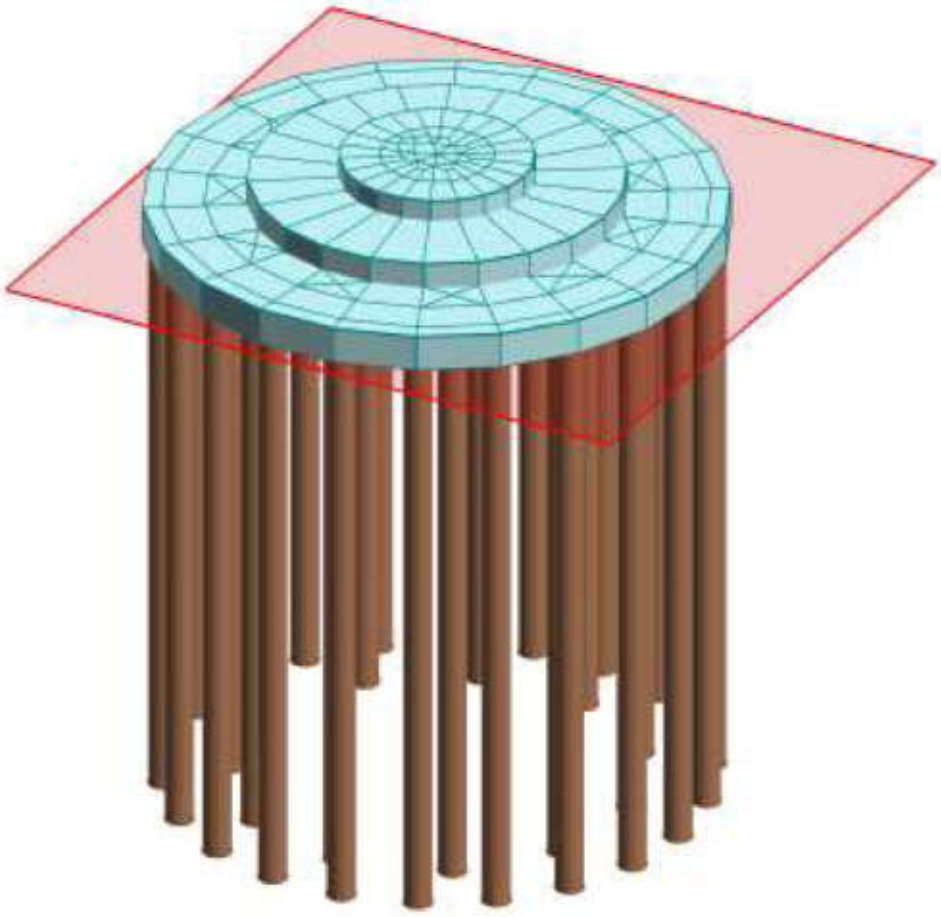


Figura 2

Dott. Ing. Vincenzo Di Marco, 3931507844, vdimarco@agonservizi.it
Dott. Ing. Vittorio Maria Randazzo, 3406003292, vrandazzo@agonservizi.it

PLANIMETRIA

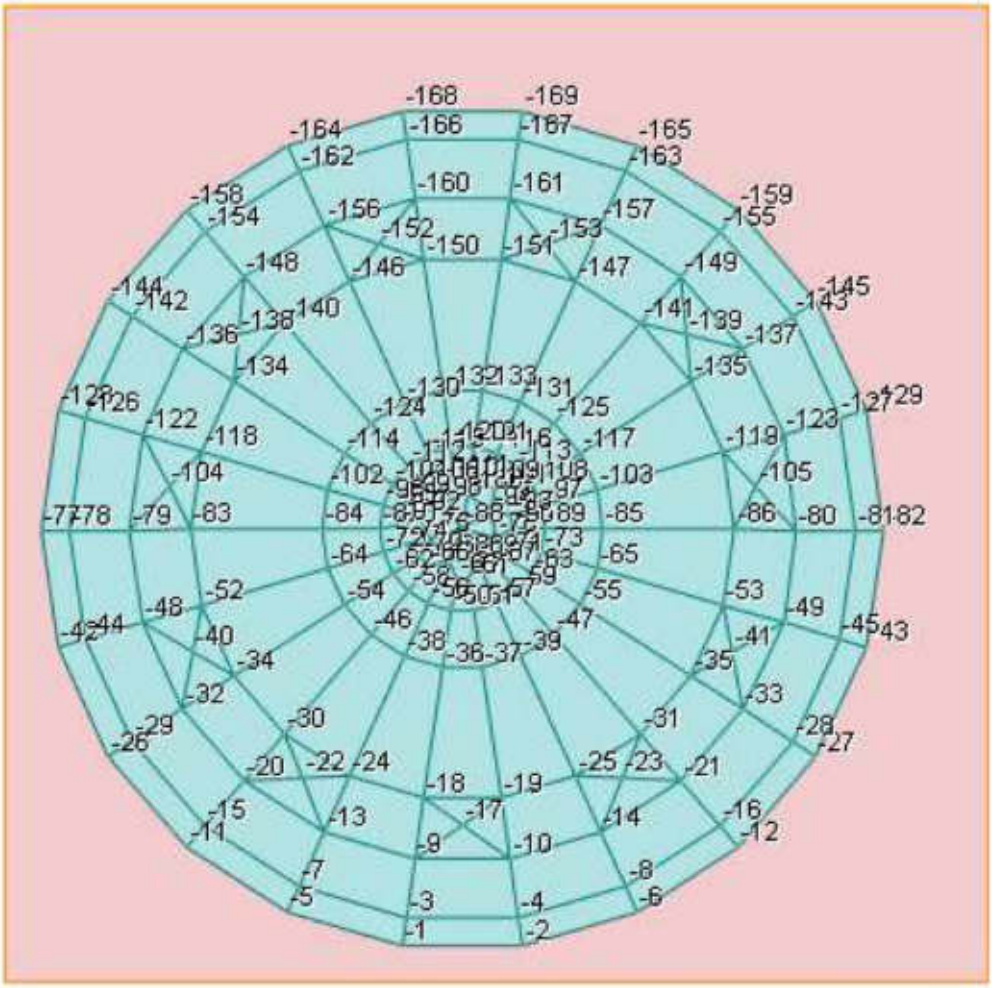


Figura 3

Le dimensioni dell'armatura superiore o inferiore della platea vengono determinate seguendo l'approccio Wood Armer-Armer per trovare i momenti di progetto sui quali dimensionare l'armatura. In questo modo infatti non si trascura il contributo del momento torcente mxy che agisce sui lati dell'elemento shell.

Nella figura successiva si riportano i diagrammi di Wood Armer, utilizzati per il calcolo delle armature, dei momenti Mx ed Mzz:

PARTICOLARE DEL DIAGRAMMA DI WOOD ARMER RELATIVO A M_{xx} .

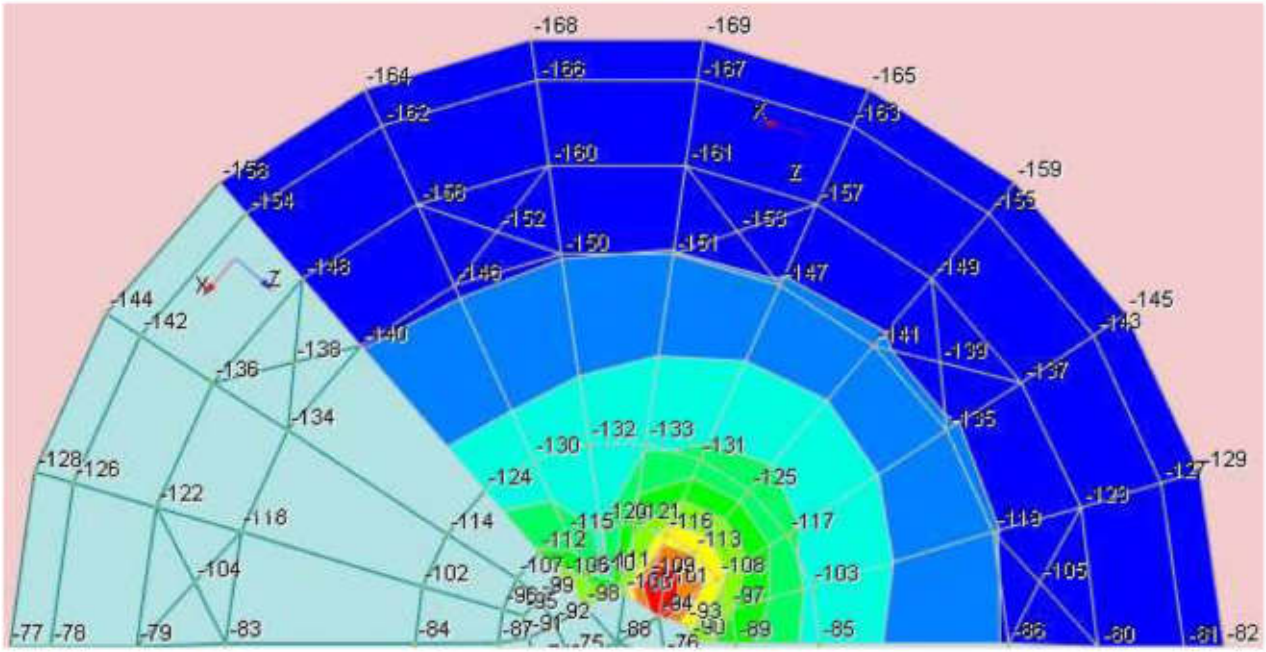


Figura 4

PARTICOLARE DEL DIAGRAMMA DI WOOD ARMER RELATIVO A MZZ .

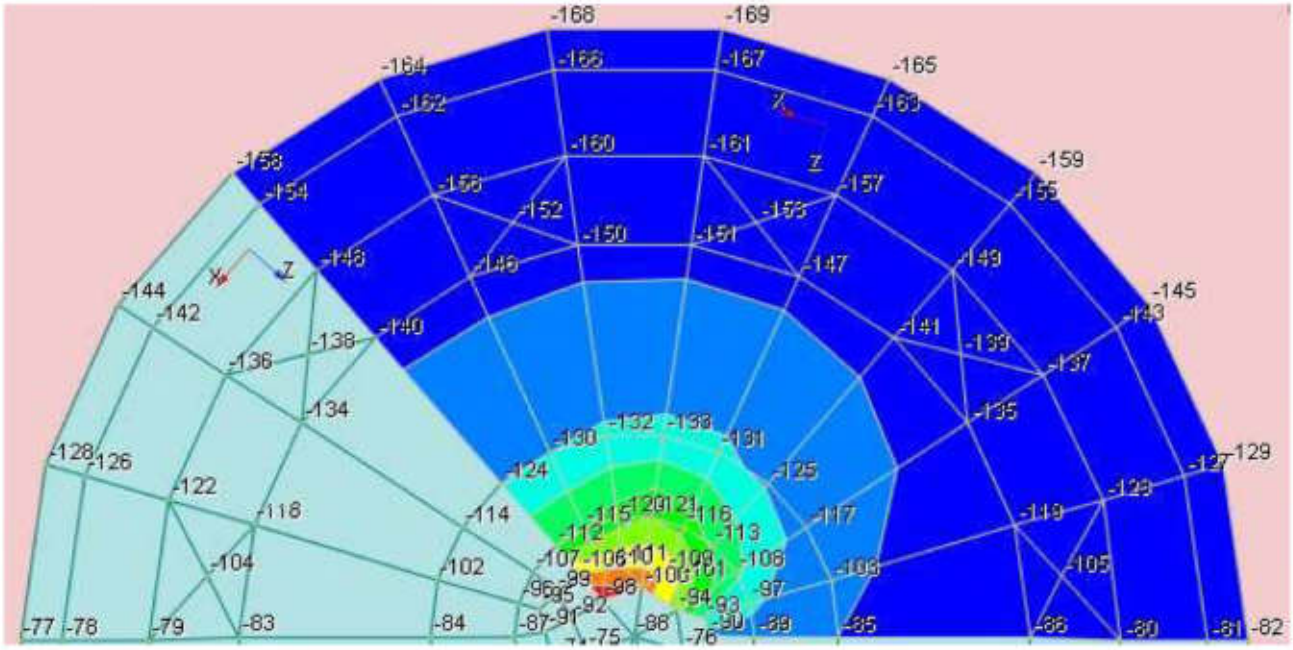


Figura 5

4.2 Progetto delle armature.

Partendo dalle sollecitazioni valutate nella condizione di carico definita nel paragrafo 2 è stata calcolata l'armatura da adottare, riportata nelle Figure seguenti. Si rimanda ai tabulati di calcolo per i dettagli.

Dal progetto delle sezioni più sollecitate, in direzione x e z (vedi assi locali in figura) dei singoli elementi shell della fondazione, individuate in corrispondenza alla testa dei pali e alla sezione d'attacco al nucleo centrale, si evince quanto rappresentato di seguito:

ARMATURA RADIALE E CONCENTRICA

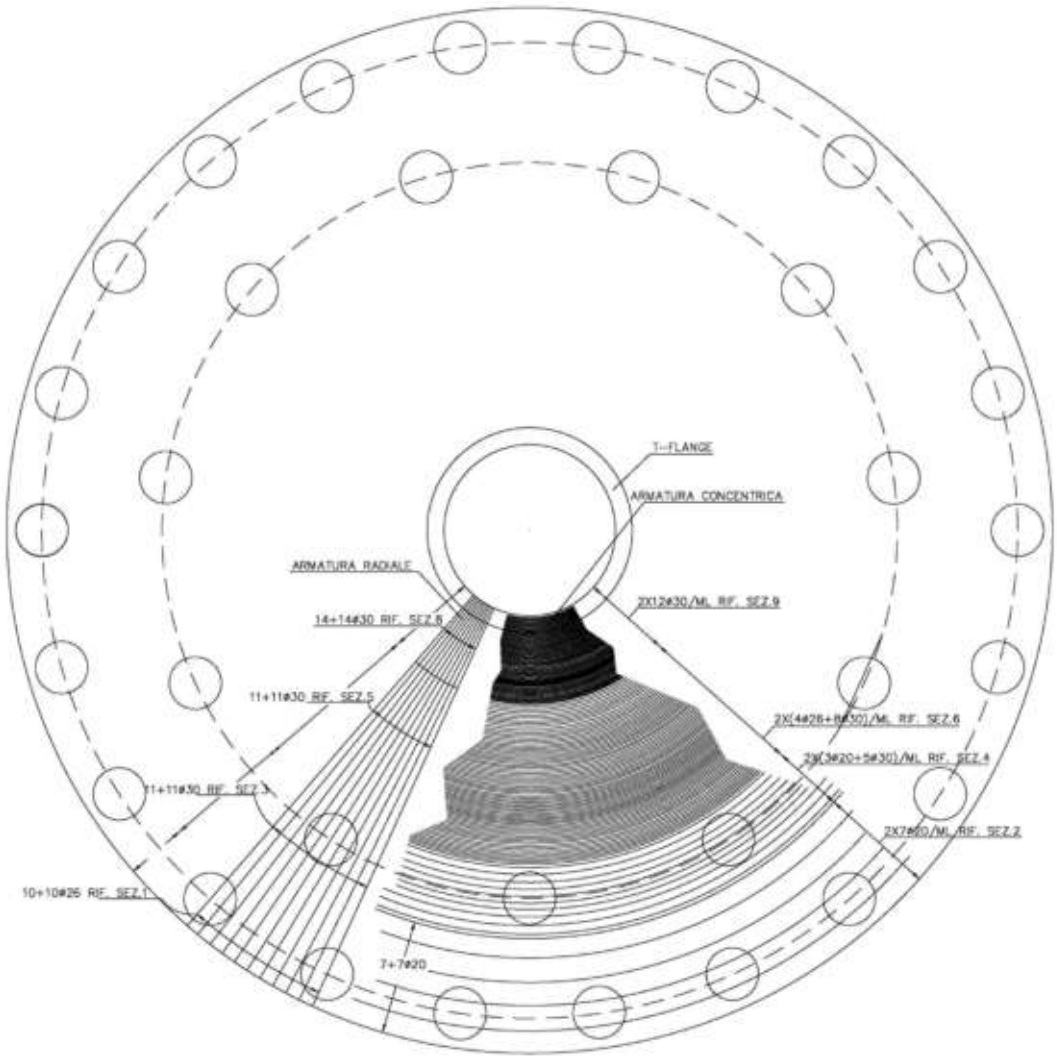
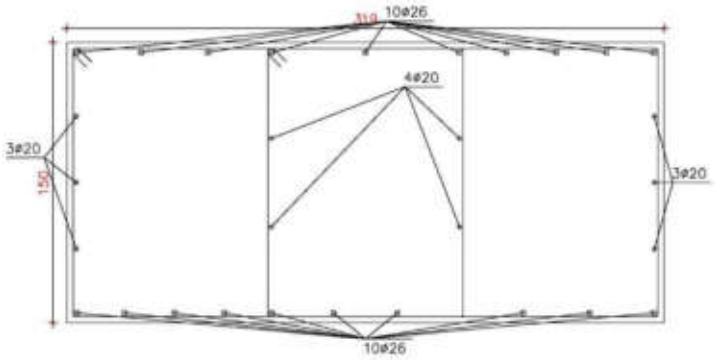
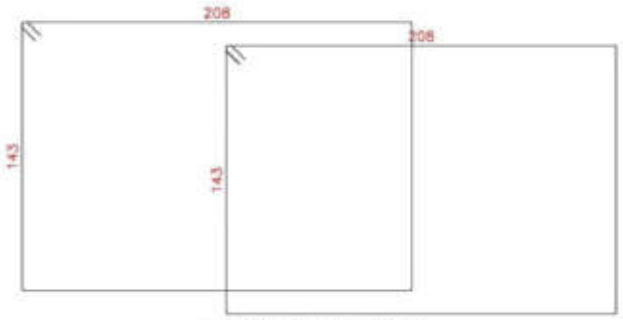


Figura 6

ARMATURA DELLE SEZIONI TIPO

SEZIONE N.1

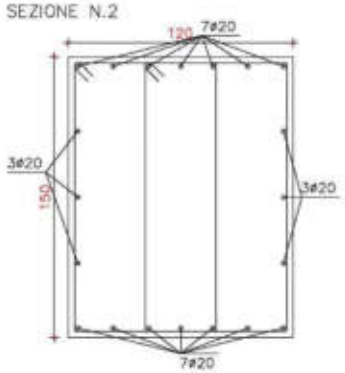


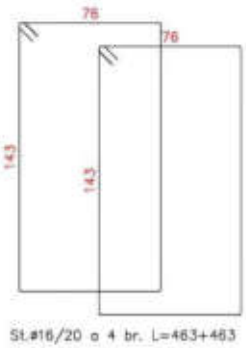


St.ø16/20 a 4 br. L=729+729

Computo sezione 1 (sezione d'attacco pali ext radiale 319x150)			
	ø16	ø20	ø26
m	72.87	10.00	20.00
kg	115.02	24.66	83.36
Tot: kg 223.04 – mc 4.79 – kg/mc 46.61			

SEZIONE N.2

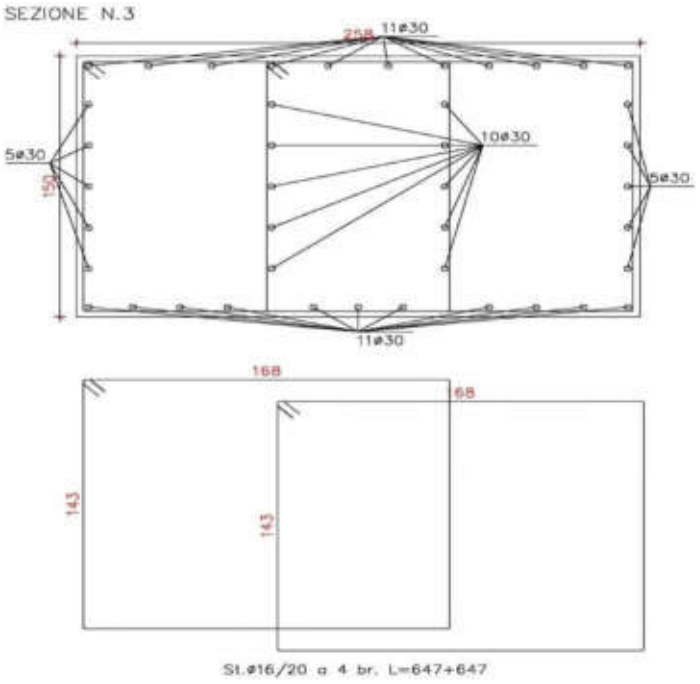




St.ø16/20 a 4 br. L=463+463

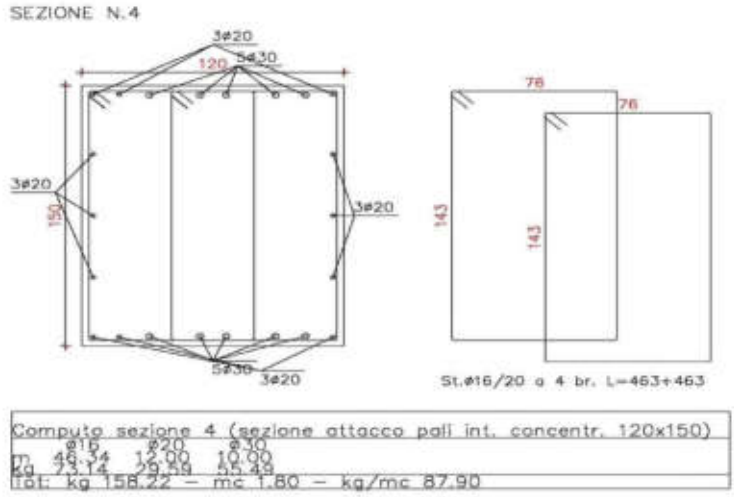
Computo sezione 2 (sezione attacco testa pali ext concentr. 120x150)		
	ø16	ø20
m	46.74	20.00
kg	73.74	48.72
Tot: kg 122.46 – mc 1.80 – kg/mc 68.04		

Figura 7



Computo sezione 3 (sezione attacco pali int. radiale 258x150)		
	ø16	ø30
m	64.74	42.00
kg	102.18	233.05

tot: kg 335.23 – mc 3.87 – kg/mc 86.62



Computo sezione 4 (sezione attacco pali int. concentr. 120x150)			
	ø16	ø20	ø30
m	46.34	12.00	10.00
kg	73.14	29.59	55.49

tot: kg 158.22 – mc 1.80 – kg/mc 87.90

Figura 8

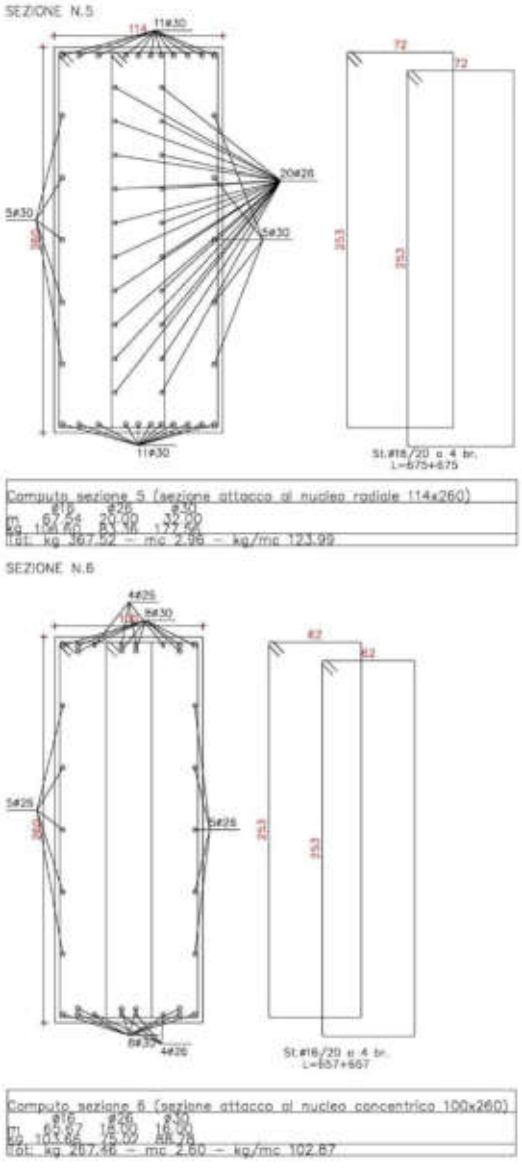

SEZIONE N.5
114
11ø30
72
72
20ø26
5ø30
5ø30
253
253
11ø30
St.ø16/20 a 4 br.
L=675+675
Computo sezione 5 (sezione attacco al nucleo radiale 114x260)
ø16 ø26 ø30
Pt 62.64 24.40 37.20
Kg 134.60 51.18 177.48
tot. kg 367.52 - mc 2.96 - kg/mc 123.99
SEZIONE N.6
4ø25
9ø30
82
82
5ø25
5ø25
253
253
8ø30
4ø20
St.ø16/20 a 4 br.
L=657+657
Computo sezione 6 (sezione attacco al nucleo concentrico 100x260)
ø16 ø25 ø30
Pt 65.67 14.40 16.40
Kg 103.62 75.09 88.76
tot. kg 267.46 - mc 2.60 - kg/mc 102.87

Figura 9

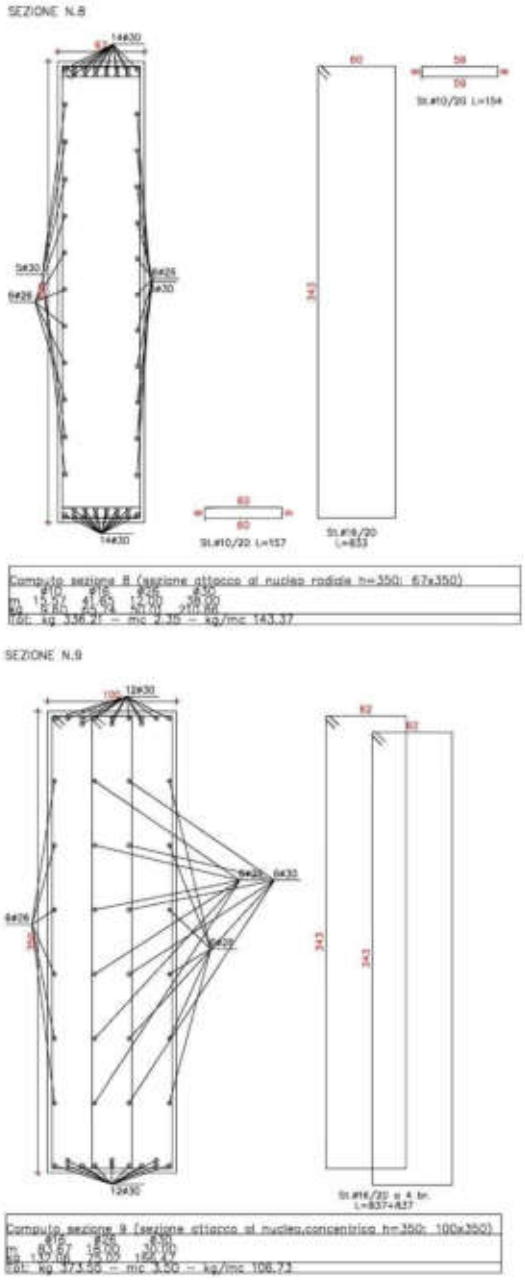
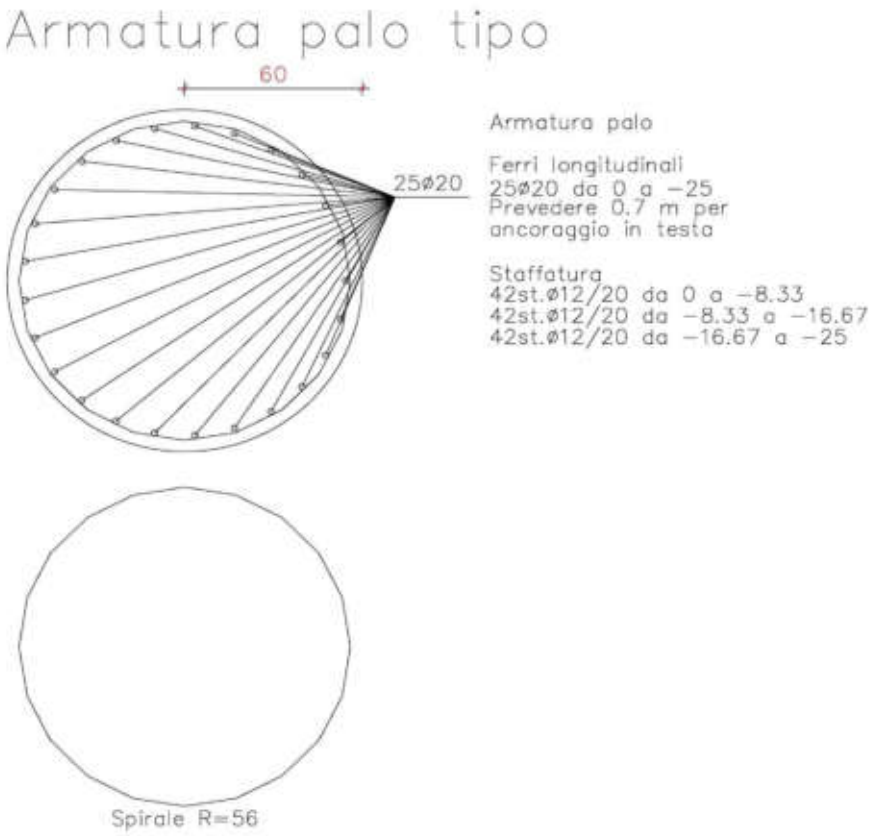

SEZIONE N.8
14Ø30
St.Ø10/20 L=157
St.Ø16/20 L=853
Computo sezione 8 (sezione attacco al nucleo radiale h=350; 67x350)
Ø10 Ø16 Ø26 Ø30
tot. kg 336.21 – mc 2.35 – kg/mc 143.37
SEZIONE N.9
13Ø30
12Ø30
St.Ø16/20 a 4 br.
L=837+837
Computo sezione 9 (sezione attacco al nucleo concentrico h=350; 100x350)
Ø16 Ø26 Ø30
tot. kg 373.50 – mc 3.50 – kg/mc 106.73

Figura 10

ARMATURA DEL PALO TIPO



Computo palo 14		
	ø12	ø20
m	441.52	642.50
kg	391.99	1584.50
Tot: kg 1976.49 − mc 28.27 − kg/mc 69.90		

Figura 11

RELAZIONE DI CALCOLO

Agon Engineering
Piazza Trento n. 35, 93100
Caltanissetta (CL)

Dott. Ing. Vincenzo Di Marco, 3931507844, vdimarco@agonservizi.it
Dott. Ing. Vittorio Maria Randazzo, 3406003292, vrandazzo@agonservizi.it

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Introduzione

Sistemi di riferimento

Le coordinate, i carichi concentrati, i cedimenti, le reazioni vincolari e gli spostamenti dei nodi sono riferiti ad una terna cartesiana ortogonale. Tutti i vincoli sono supposti ideali e quindi non sono presenti attriti.
I vincoli sono considerati lisci. Il sistema globale di riferimento della struttura è costituito da una terna destra cartesiana così definita:
- origine nel nodo iniziale dell'asta;
- asse X coincidente con l'asse dell'asta e con verso positivo dal nodo iniziale al nodo finale;
- immaginando la trave a sezione rettangolare l'asse Z è parallelo alla base e l'asse Y è parallelo all'altezza. La rotazione attorno all'asse Z rappresenta quindi una rotazione di tipo torsionale.

Si può immaginare la terna locale di un'asta qualunque disposta nello spazio come derivante da quella globale dopo una serie di trasformazioni quali:
- una rotazione attorno all'asse Z che porti l'asse X a coincidere con la proiezione dell'asse dell'asta sul piano orizzontale;
- una rotazione attorno all'asse Y (asse che durante la rotazione precedente è stato portato a coincidere con l'asse Y globale) che porti l'asse X a coincidere con l'asse dell'asta;
- una traslazione lungo l'asse X che porti l'origine a coincidere con il nodo iniziale dell'asta;
- una rotazione attorno all'asse Y (asse che durante la rotazione precedente è stato portato a coincidere con l'asse Y globale) che porti l'asse X a coincidere con l'asse dell'asta;
- una rotazione attorno all'asse X che porti gli assi Y e Z a coincidere con gli assi della sezione trasversale dell'asta.

In pratica le travi prive di rotazione avranno sempre l'asse z rivolto verso l'alto e l'asse Y nel piano del telaio, mentre i pilastri privi di rotazione avranno l'asse Y parallelo all'asse Y globale e l'asse X parallelo all'asse X globale. Per quanto riguarda i pilastri con rotazione si può immaginare la terna locale come derivante da quella globale dopo una rotazione attorno all'asse X.

In relazione alla convenzione adottata nella definizione della matrice di trasformazione [T] (vedi MANUALE TEORICO) una terna locale destra cartesiana è così definita:
- origine nel primo nodo dell'elemento;
- asse X coincidente con il segmento avente origine nel primo nodo e fine nel secondo nodo;
- asse Y definito in modo che il piano individuato dagli assi X e Y sia parallelo al piano individuato dagli assi X e Z globali e che il versore dell'asse Y abbia componente positiva lungo l'asse Z globale. Se l'asse X è parallelo all'asse Z globale, l'asse Y è parallelo all'asse Y globale e concorde in verso;
- asse Z definito in modo che la terna risultante sia destra. Assi z a formare con gli altri due una terna destrorsa.

Pertanto per elementi verticali e con l'asse X locale concorde con l'asse X globale le direzioni degli assi locali e globali risultano coincidenti.

Rotazioni e momenti

Seguendo il principio enunciato per la definizione delle coppie positive (vedi MANUALE TEORICO) e che i momenti concentrati e le rotazioni imposte in coordinate globali risultano positivi se concordi al segno positivo delle rotazioni. Il segno positivo dei momenti e delle rotazioni è così definito: momento positivo se positivo per l'asse coincidente, momento positivo se positivo per l'asse parallelo, momento positivo se positivo per l'asse ortogonale. In pratica è sufficiente applicare la regola della mano destra: pollice rivolto nella direzione dell'asse, la rotazione che porta a chiudere il palmo della mano corrisponde al segno positivo.

Normativa di riferimento

La normativa di riferimento è la seguente:
- Legge n. 64 del 2/2/1974 - Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche.

- D.M. del 24/1/1986 - Norme tecniche relative alle costruzioni sismiche.

- Circolare n. 1609 del 6/12/1987 - Norme per la redazione dei progetti esecutivi riguardanti le costruzioni, nonché la contabilità e la struttura della loro documentazione.

- D.M. del 14/2/1992 - Norme tecniche per l'esecuzione delle opere in cemento armato normale e precompresso e per le strutture metalliche.

- D.M. del 9/1/1996 - Norme tecniche per l'esecuzione delle opere in cemento armato normale e precompresso e per le strutture metalliche.

- D.M. del 16/1/1996 - Norme tecniche per le costruzioni in zone sismiche.

- Circolare n. 21745 del 30/7/1981 - Legge n. 219 del 14/5/1981 - Art. 18 - Istruzioni relative al rafforzamento degli edifici danneggiati dal sisma.

- Regione Autonoma Friuli Venezia Giulia - Legge Regionale n. 30 del 20/6/1977 - Documentazione tecnica per la progettazione delle opere in cemento armato e per l'esecuzione degli edifici in - Documento Tecnico n. 2 - Raccomandazioni per la progettazione antisismica e per l'esecuzione delle costruzioni.

- D.M. del 20/11/1987 - Norme Tecniche per il progetto, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento.

- Norme Tecniche C.N.R. n. 10011-85 del 19/2/1988 - Costruzione di gru da cantiere - Istruzioni per la valutazione, l'esecuzione, il collaudo e la manutenzione.

- Norme Tecniche C.N.R. n. 10025-84 del 14/2/1984 - Istruzioni per il progetto, l'esecuzione ed il controllo delle strutture prefabbricate in conglomerato cementizio e per le valutazioni connesse con l'uso di tali strutture per il calcolo, l'esecuzione, il collaudo e la manutenzione.

- Circolare n. 65 del 10/4/1967 - Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni in zone sismiche" di cui al D.M. del 19/6/1996.

- Eurocodice 8 - Progettazione delle strutture in zona sismica.

- DIN 1045 - Norme per il cemento armato.

- D.M. del 17/1/2018 - Norme tecniche per le costruzioni.

- Circolare n. 7 del 21/1/2019 - Istruzioni per l'applicazione dell'«Aggiornamento delle "Norme tecniche per le costruzioni"» di cui al decreto ministeriale 17 gennaio 2018.

- Documento Tecnico CNR-DT 200 R1/2012 - Istruzioni per la Progettazione, l'Esecuzione ed il Controllo di Interventi di Consolidamento Statico mediante l'utilizzo di Compositi Fibrorinforzati.

- Eurocodice 3 - Progettazione delle strutture in acciaio.

Unità di misura

Le unità di misura adottate sono le seguenti:
- lunghezze : m
- forze : daN
- masse : kg
- temperature : gradi centigradi
- angoli : gradi sessadecimali o radianti

Geometria

Elenco vincoli nodi

Simbologia
Comm. = Commento
Kt = Coeff. di sottofondo su suolo elastico alla Winkler
Ly = Lunghezza (dir. Y locale)
Lz = Larghezza (dir. Z locale)
RL = Rotazione libera
Rx = Rotazione intorno all'asse X (L=libera, B=bloccata, E=elastica)
Ry = Rotazione intorno all'asse Y (L=libera, B=bloccata, E=elastica)
Rz = Rotazione intorno all'asse Z (L=libera, B=bloccata, E=elastica)
Sx = Spostamento in dir. X (L=libero, B=bloccato, E=elastico)
Sy = Spostamento in dir. Y (L=libero, B=bloccato, E=elastico)
Sz = Spostamento in dir. Z (L=libero, B=bloccato, E=elastico)
TV = Tipo vincolo se valutato da stratigrafia
SP = Plinto senza pali
CP = Palo o plinto con pali
Vn = Numero del vincolo nodo

Vn	Comm.	TV	Sx	Sy	Sz	Rx	Ry	Rz	RL	Ly <m>	Lz <m>	Kt <daN/cmc>
1	Libero		L	L	L	L	L	L				
4	palo	CP	E	E	E	E	E	B				f(strat.)
4	palo	SP	B	B	E	B	B	B				f(strat.)

Elenco costanti elastiche nodali

Simbologia
KRx = Costante elastica intorno all'asse X
KRy = Costante elastica intorno all'asse Y
KRz = Costante elastica intorno all'asse Z
Kx = Costante elastica in dir. X
Ky = Costante elastica in dir. Y
Kz = Costante elastica in dir. Z
Nodo = Numero del nodo

Nodo	Kx <daN/cm>	Ky <daN/cm>	Kz <daN/cm>	KRx <daNm/rad>	KRy <daNm/rad>	KRz <daNm/rad>
-167	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-166	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-163	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-162	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-155	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-154	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-153	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-152	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-143	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-142	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-139	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-138	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-127	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-126	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-105	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-104	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-81	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-78	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-45	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-44	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-41	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-40	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-29	23177.10	23177.10	141442.00	53208800.00	53208800.00	--

-28	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-23	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-22	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-17	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-16	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-15	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-8	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-7	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-4	23177.10	23177.10	141442.00	53208800.00	53208800.00	--
-3	23177.10	23177.10	141442.00	53208800.00	53208800.00	--

Elenco nodi

Simbologia
Imp. = Numero dell'impalcato
Nodo = Numero del nodo
Vn = Numero del vincolo nodo
X = Coordinata X del nodo
Y = Coordinata Y del nodo
Z = Coordinata Z del nodo

Nodo	X <m>	Y <m>	Z <m>	Imp.	Vn
-169	13.21	23.38	0.00	0	1
-168	9.79	23.38	0.00	0	1
-167	13.09	22.58	0.00	0	4
-166	9.91	22.58	0.00	0	4
-165	16.48	22.40	0.00	0	1
-164	6.51	22.40	0.00	0	1
-163	16.15	21.68	0.00	0	4
-162	6.85	21.68	0.00	0	4
-161	12.85	20.90	0.00	0	1
-160	10.15	20.90	0.00	0	1
-159	19.36	20.57	0.00	0	1
-158	3.64	20.57	0.00	0	1
-157	15.44	20.14	0.00	0	1
-156	7.56	20.14	0.00	0	1
-155	18.84	19.96	0.00	0	4
-154	4.16	19.96	0.00	0	4
-153	13.88	19.60	0.00	0	4
-152	9.12	19.60	0.00	0	4
-151	12.61	19.16	0.00	0	1
-150	10.39	19.16	0.00	0	1
-149	17.72	18.67	0.00	0	1
-148	5.28	18.67	0.00	0	1
-147	14.72	18.54	0.00	0	1
-146	8.28	18.54	0.00	0	1
-145	21.56	17.99	0.00	0	1
-144	1.40	17.99	0.00	0	1
-143	20.92	17.55	0.00	0	4
-142	2.08	17.55	0.00	0	4
-141	16.57	17.35	0.00	0	1
-140	6.43	17.35	0.00	0	1
-139	17.88	17.03	0.00	0	4
-138	5.12	17.03	0.00	0	4
-137	19.49	16.62	0.00	0	1
-136	3.51	16.62	0.00	0	1
-135	18.01	15.69	0.00	0	1
-134	4.99	15.69	0.00	0	1
-133	12.06	15.43	0.00	0	1
-132	10.94	15.43	0.00	0	1
-131	13.15	15.11	0.00	0	1
-130	9.85	15.11	0.00	0	1
-129	23.01	14.87	0.00	0	1
-128	-0.01	14.87	0.00	0	1
-127	22.25	14.65	0.00	0	4
-126	0.75	14.65	0.00	0	4
-125	14.11	14.50	0.00	0	1
-124	8.89	14.50	0.00	0	1
-123	20.67	14.17	0.00	0	1
-122	2.39	14.17	0.00	0	1
-121	11.83	13.83	0.00	0	1
-120	11.17	13.83	0.00	0	1
-119	18.93	13.69	0.00	0	1
-118	4.07	13.69	0.00	0	1
-117	14.86	13.64	0.00	0	1
-116	12.48	13.64	0.00	0	1

-110	10.52	13.64	0.00	0	1
-114	8.14	13.64	0.00	0	1
-11a	13.07	14.78	0.00	0	1
-11z	8.96	14.78	0.00	0	1
-111	11.26	12.40	0.00	0	1
-116	10.93	12.80	0.00	0	1
-119	12.12	11.77	0.00	0	1
-123	10.68	11.77	0.00	0	1
-12y	8.54	12.33	0.00	0	1
-12e	10.47	12.76	0.00	0	1
-132	14.84	12.20	0.00	0	2
-134	11.74	12.20	0.00	0	2
-133	17.35	11.61	0.00	0	1
-132	7.85	11.61	0.00	0	1
-13f	11.21	12.08	0.00	0	1
-13d	11.84	12.76	0.00	0	1
-149	9.97	12.78	0.00	0	1
-148	10.89	12.78	0.00	0	1
-147	12.75	11.16	0.00	0	1
-14c	9.24	11.16	0.00	0	1
-14v	8.85	12.07	0.00	0	1
-154	12.73	12.62	0.00	0	1
-15f	12.88	11.38	0.00	0	1
-15c	10.28	11.83	0.00	0	1
-161	9.75	11.61	0.00	0	1
-16j	11.94	11.38	0.00	0	1
-16w	13.85	11.38	0.00	0	1
-16k	11.50	11.38	0.00	0	1
-16y	9.75	11.38	0.00	0	1
-17c	13.24	11.43	0.00	0	1
-171	13.69	11.43	0.00	0	1
-18d	7.50	11.78	0.00	0	1
-18x	8.76	11.78	0.00	0	1
-19f	11.50	11.28	0.00	0	1
-191	12.70	11.28	0.00	0	2
-1ac	11.00	11.42	0.00	0	1
-1a9	9.99	11.42	0.00	0	1
-1bx	10.50	11.78	0.00	0	1
-1by	10.50	11.78	0.00	0	1
-1c6	12.45	11.22	0.00	0	1
-1cc	10.56	11.22	0.00	0	1
-1d4	9.99	11.02	0.00	0	1
-1d3	12.75	10.84	0.00	0	1
-1e7	9.07	10.89	0.00	0	1
-1e1	11.69	10.50	0.00	0	1
-1f6	10.75	10.50	0.00	0	1
-1f9	11.97	10.71	0.00	0	1
-1g3	11.13	11.60	0.00	0	1
-1g7	12.66	11.44	0.00	0	1
-1h6	10.50	10.74	0.00	0	1
-1h1	11.49	10.89	0.00	0	1
-1i4	7.65	10.71	0.00	0	1
-1i7	11.48	10.71	0.00	0	1
-1j2	9.52	11.22	0.00	0	1
-1j1	11.67	11.08	0.00	0	1
-1k6	11.44	10.98	0.00	0	1
-1k4	13.07	9.77	0.00	0	1
-1l8	9.96	9.92	0.00	0	1
-1l3	12.48	9.79	0.00	0	1
-1m3	10.52	9.26	0.00	0	1
-1m1	14.96	9.24	0.00	0	1
-1n4	8.12	9.39	0.00	0	1
-1n1	10.96	9.39	0.00	0	1
-1o8	9.07	9.97	0.00	0	1
-1o1	11.83	9.17	0.00	0	1
-1p3	11.17	9.17	0.00	0	1
-1p6	10.67	8.83	0.00	0	1
-1q1	11.69	8.83	0.00	0	1
-1q5	12.11	8.58	0.00	0	1
-1r6	8.84	8.58	0.00	0	1
-1r1	22.25	8.27	0.00	0	4
-1s4	0.75	8.27	0.00	0	4
-1s1	28.01	8.77	0.00	0	1
-1t7	0.01	8.77	0.00	0	1
-1t1	14.78	9.99	0.00	0	2
-1u5	11.83	9.99	0.00	0	2

-39	13.15	7.87	0.00	0	1
-38	9.85	7.87	0.00	0	1
-37	12.06	7.55	0.00	0	1
-36	10.94	7.55	0.00	0	1
-35	18.01	7.31	0.00	0	1
-34	4.99	7.31	0.00	0	1
-33	19.49	6.37	0.00	0	1
-32	3.51	6.37	0.00	0	1
-31	16.57	5.65	0.00	0	1
-30	6.43	5.65	0.00	0	1
-29	2.08	5.45	0.00	0	4
-28	20.92	5.43	0.00	0	4
-27	21.56	5.01	0.00	0	1
-26	1.40	5.01	0.00	0	1
-25	14.72	4.46	0.00	0	1
-24	8.28	4.46	0.00	0	1
-23	16.06	4.40	0.00	0	4
-22	6.94	4.40	0.00	0	4
-21	17.72	4.32	0.00	0	1
-20	5.28	4.32	0.00	0	1
-19	12.61	3.84	0.00	0	1
-18	10.39	3.84	0.00	0	1
-17	11.50	3.06	0.00	0	4
-16	18.84	3.04	0.00	0	4
-15	4.16	3.04	0.00	0	4
-14	15.44	2.86	0.00	0	1
-13	7.56	2.86	0.00	0	1
-12	19.36	2.43	0.00	0	1
-11	3.64	2.43	0.00	0	1
-10	12.85	2.10	0.00	0	1
-9	10.15	2.10	0.00	0	1
-8	16.15	1.32	0.00	0	4
-7	6.85	1.32	0.00	0	4
-6	16.48	0.58	0.00	0	1
-5	6.51	0.58	0.00	0	1
-4	13.09	0.42	0.00	0	4
-3	9.91	0.42	0.00	0	4
-2	13.21	-0.38	0.00	0	1
-1	9.79	-0.38	0.00	0	1

Elenco materiali

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

Mat.	Comm.	P <daN/mc>	E <daN/cmq>	G <daN/cmq>	ν	α
10	Calcestruzzo classe C40/50	2500	355471.00	161578.00	0.1	1.00E-05

Elenco sezioni aste

Simbologia
B = Base
C = Numero del criterio di progetto
Comm. = Commento
Crit. C.F. = Criterio di progetto collegamento finale
Crit. C.I. = Criterio di progetto collegamento iniziale
H = Altezza
Ma = Numero del materiale
Mem. = Membratura
G = Generica
Sez. = Numero della sezione
Tipo = Tipologia
R = Rettangolare
Ver. = Verifica prevista
C = Cemento armato

Sez.	Comm.	Tipo	Mem.	Ver.	B <cm>	H <cm>	Ma	C	Crit. C.I.	Crit. C.F.
1	Sezione d'attacco pali ext radiale 319x150	R	G	C	319.00	150.00	10	3		
2	Sezione attacco testa pali ext concentr. 120x150	R	G	C	120.00	150.00	10	3		
3	Sezione attacco pali int. radiale 258x150	R	G	C	258.00	150.00	10	3		
4	Sezione attacco pali int. concentr. 120x150	R	G	C	120.00	150.00	10	3		
5	Sezione attacco al nucleo radiale 114x260	R	G	C	114.00	260.00	10	3		

6	Sezione attacco al nucleo concentrica 100x260	R	G	C	100.00	260.00	10	3		
7	Sezione attacco al nucleo concentrica H=350 114x350	R	G	C	114.00	350.00	10	3		
8	Sezione attacco al nucleo radiale H=350: 67x350	R	G	C	67.00	350.00	10	3		
9	Sezione attacco al nucleo,concentrica H=350: 100x350	R	G	C	100.00	350.00	10	3		
10	SEZIONE ATTACCO POST. DEL PALO POSTERIORE: 258X260	R	G	C	258.00	260.00	10	3		

Elenco tipi elementi bidimensionali

Simbologia
Ang. att. = Angolo di attrito
Ang. dil. = Angolo di dilatanza
Coes. = Coesione
Comm. = Commento
Crit. = Numero del criterio di progetto
DP = Drucker-Prager
Kt = Coeff. di sottofondo su suolo elastico alla Winkler
Mat. = Numero del materiale
Spess. = Spessore
Tb = Numero del tipo muro/elemento bidimensionale
Tipo = Tipologia
F = Membranale e Flessionale
M = Membranale
W-RC = Winkler resistente solo a compressione
W-RTC = Winkler resistente a trazione e a compressione
Uso = Utilizzo
S = Soletta/Platea

Tb	Comm.	Tipo	Uso	Spess. <cm>	Kt <daN/cmc>	DP	Ang. att. <grad>	Coes. <daN/mq>	Ang. dil. <grad>	Crit.	Mat.
1	Platea h=1.50 mt	F	S	150.00		N	0.00	0.00	0.00	3	10
2	Platea H=2.6 mt	F	S	260.00		N	0.00	0.00	0.00	3	10
3	Platea H= 3.50 mt	F	S	350.00		N	0.00	0.00	0.00	3	10

Elenco elementi bidimensionali

Simbologia
Bid. = Numero del muro/elemento bidimensionale
Dy1 = Scost. filo fisso Y1
Dy2 = Scost. filo fisso Y2
FF = Filo fisso
Kt = Coeff. di sottofondo su suolo elastico alla Winkler
NN = Nodi
Tb = Numero del tipo muro/elemento bidimensionale

Bid.	Tb	FF	Dy1 <cm>	Dy2 <cm>	Kt <daN/cmc>	NN
2	2	33	0.00	0.00		-140 -134 -114 -124
2	2	33	0.00	0.00		-146 -140 -124 -130
2	2	33	0.00	0.00		-52 -34 -54 -64
2	2	33	0.00	0.00		-83 -52 -64 -84
2	2	33	0.00	0.00		-150 -146 -130 -132
2	2	33	0.00	0.00		-151 -150 -132 -133
2	2	33	0.00	0.00		-147 -151 -133 -131
2	2	33	0.00	0.00		-141 -147 -131 -125
2	2	33	0.00	0.00		-135 -141 -125 -117
2	2	33	0.00	0.00		-119 -135 -117 -103
2	2	33	0.00	0.00		-86 -119 -103 -85
2	2	33	0.00	0.00		-53 -86 -85 -65
2	2	33	0.00	0.00		-35 -53 -65 -55
2	2	33	0.00	0.00		-31 -35 -55 -47
2	2	33	0.00	0.00		-25 -31 -47 -39
2	2	33	0.00	0.00		-19 -25 -39 -37
2	2	33	0.00	0.00		-18 -19 -37 -36
2	2	33	0.00	0.00		-24 -18 -36 -38
2	1	33	0.00	0.00		-13 -9 -18 -24
2	1	33	0.00	0.00		-163 -167 -161 -157
2	1	33	0.00	0.00		-160 -152 -150
2	1	33	0.00	0.00		-169 -168 -166 -167
2	1	33	0.00	0.00		-32 -20 -30 -34
2	1	33	0.00	0.00		-155 -163 -157 -149
2	1	33	0.00	0.00		-152 -146 -150
2	1	33	0.00	0.00		-143 -155 -149 -137
2	1	33	0.00	0.00		-79 -48 -52 -83
2	1	33	0.00	0.00		-77 -42 -44 -78
2	1	33	0.00	0.00		-152 -156 -146
2	1	33	0.00	0.00		-128 -77 -78 -126
2	2	33	0.00	0.00		-118 -83 -84 -102
2	2	33	0.00	0.00		-134 -118 -102 -114
2	1	33	0.00	0.00		-136 -122 -118 -134
2	1	33	0.00	0.00		-144 -128 -126 -142

2	1	22	0.00	0.00		-102	103	107	
2	1	22	0.00	0.00		-108	144	142	156
2	1	33	0.00	0.00		156	148	140	148
2	1	33	0.00	0.00		156	158	154	162
2	1	11	0.00	0.00		-144	-141	-139	
2	1	11	0.00	0.00		-166	-164	-162	-163
2	1	22	0.00	0.00		-102	102	150	151
2	1	22	0.00	0.00		-108	102	102	155
2	1	33	0.00	0.00		159	150	142	
2	1	33	0.00	0.00		146	154	156	148
2	1	11	0.00	0.00		-144	-142	-142	-147
2	1	11	0.00	0.00		-160	-164	-162	-166
2	1	22	0.00	0.00		-142	132	139	
2	1	22	0.00	0.00		-103	142	162	127
2	1	33	0.00	0.00		123	142	136	119
2	1	33	0.00	0.00		127	146	142	128
2	1	11	0.00	0.00		-147	-142	-152	
2	1	11	0.00	0.00		-97	-139	-137	-97
2	1	22	0.00	0.00		-49	80	86	33
2	1	22	0.00	0.00		-43	82	81	42
2	1	33	0.00	0.00		143	141	142	
2	1	11	0.00	0.00		-91	-139	-133	-98
2	1	11	0.00	0.00		-97	-93	-96	-91
2	1	22	0.00	0.00		-27	63	43	23
2	1	22	0.00	0.00		-102	111	153	
2	1	33	0.00	0.00		45	87	80	44
2	1	33	0.00	0.00		76	74	72	74
2	1	11	0.00	0.00		-28	-25	-29	-27
2	1	11	0.00	0.00		-160	-156	-152	
2	2	22	0.00	0.00		-12	27	28	10
2	2	22	0.00	0.00		-34	30	46	24
2	2	33	0.00	0.00		22	42	38	19
2	2	33	0.00	0.00		19	38	26	22
2	2	11	0.00	0.00		-24	-46	-38	-42
2	2	11	0.00	0.00		-64	-54	-47	-37
2	2	22	0.00	0.00		-34	66	72	37
2	2	22	0.00	0.00		-102	84	87	86
2	2	33	0.00	0.00		117	102	98	107
2	2	33	0.00	0.00		127	114	102	112
2	2	11	0.00	0.00		-130	-124	-122	-115
2	2	11	0.00	0.00		-132	-130	-122	-120
2	2	22	0.00	0.00		-122	122	120	121
2	2	22	0.00	0.00		-131	133	121	116
2	2	33	0.00	0.00		123	121	116	118
2	2	33	0.00	0.00		117	126	112	108
2	2	11	0.00	0.00		-103	-112	-108	-97
2	2	11	0.00	0.00		-85	-108	-97	-86
2	3	22	0.00	0.00		-82	85	83	73
2	3	22	0.00	0.00		-72	85	72	82
2	3	33	0.00	0.00		42	66	63	54
2	3	33	0.00	0.00		54	47	58	42
2	2	11	0.00	0.00		-82	-78	-67	-81
2	2	11	0.00	0.00		-86	-87	-87	-82
2	3	22	0.00	0.00		-72	36	30	20
2	3	22	0.00	0.00		-62	58	66	72
2	3	33	0.00	0.00		70	76	77	
2	3	33	0.00	0.00		66	88	76	
2	2	11	0.00	0.00		-76	-70	-64	-68
2	2	11	0.00	0.00		-68	-56	-48	-66
2	3	22	0.00	0.00		-72	68	60	
2	3	22	0.00	0.00		-62	58	30	32
2	3	33	0.00	0.00		50	57	67	60
2	3	33	0.00	0.00		66	60	67	64
2	2	11	0.00	0.00		-69	-67	-57	-72
2	3	22	0.00	0.00		-72	69	76	
2	3	22	0.00	0.00		-72	78	84	
2	3	33	0.00	0.00		100	86	97	
2	3	33	0.00	0.00		96	88	100	
2	2	11	0.00	0.00		-94	-75	-97	-91
2	2	11	0.00	0.00		-100	-110	-101	-94
2	3	22	0.00	0.00		-112	110	109	101
2	3	22	0.00	0.00		-94	101	100	109
2	3	33	0.00	0.00		116	121	106	109
2	3	33	0.00	0.00		127	120	111	100
2	2	11	0.00	0.00		-120	-115	-110	-111
2	2	11	0.00	0.00		-100	-111	-110	-98

1	3	22	0.00	0.00		-156 -95 -119
1	3	22	0.00	0.00		-79 -73 -89 -90
/	3	33	0.00	0.00		-- -97 -93 --
/	3	33	0.00	0.00		-- -90 -93 --
1	1	11	0.00	0.00		-94 -97 -97 -103
1	1	11	0.00	0.00		-69 -57 -59 -60
1	3	22	0.00	0.00		-59 -63 -71 -67
1	3	22	0.00	0.00		-69 -67 -71 -70
/	3	33	0.00	0.00		-- -- -- --
/	3	33	0.00	0.00		-- -- -- --
1	1	11	0.00	0.00		-90 -88 -98 -97
1	1	11	0.00	0.00		-103 -96 -95 -99
1	3	22	0.00	0.00		-90 -87 -91 -92
1	3	22	0.00	0.00		-96 -100 -99 -92
/	3	33	0.00	0.00		-- -- -- --
/	3	33	0.00	0.00		-- -- -- --
1	1	11	0.00	0.00		-116 -112 -106 -110
1	1	11	0.00	0.00		-97 -93 -90 -94
1	2	22	0.00	0.00		-10 28 22 21
1	2	22	0.00	0.00		-5 18 21 14
/	1	33	0.00	0.00		-- -- -- --
1	1	11	0.00	0.00		-9 -2 -10 -9
1	1	11	0.00	0.00		-9 -9 -9 -11
1	2	22	0.00	0.00		-12 7 12 20
1	2	22	0.00	0.00		-107 -100 -102 -101
/	1	33	0.00	0.00		-- -- -- --
/	1	33	0.00	0.00		-- -- -- --
1	1	11	0.00	0.00		-6 -10 -10 -8
1	1	11	0.00	0.00		-29 -22 -28 -29
1	2	22	0.00	0.00		-126 -71 -79 -122
1	2	22	0.00	0.00		-2 -6 -3 -4
/	1	33	0.00	0.00		-- -- -- --
/	1	33	0.00	0.00		-- -- -- --
1	1	11	0.00	0.00		-142 -147 -136 -148
1	1	11	0.00	0.00		-9 -7 -9 -7
1	2	22	0.00	0.00		-11 5 7 15
1	2	22	0.00	0.00		-132 -124 -141 -156
/	1	33	0.00	0.00		-- -- -- --
/	1	33	0.00	0.00		-- -- -- --
1	1	11	0.00	0.00		-160 -167 -156 -160
1	1	11	0.00	0.00		-134 -129 -132
1	2	22	0.00	0.00		-110 -93 -105
1	2	22	0.00	0.00		-122 -119 -121
/	1	33	0.00	0.00		-- -- -- --
/	1	33	0.00	0.00		-- -- -- --
1	1	11	0.00	0.00		-29 -25 -27
1	1	11	0.00	0.00		-29 -27 -29
1	2	22	0.00	0.00		-41 35 22
1	2	22	0.00	0.00		-41 33 40
/	1	33	0.00	0.00		-- -- -- --
/	1	33	0.00	0.00		-- -- -- --
1	1	11	0.00	0.00		-27 -24 -27
1	1	11	0.00	0.00		-31 -33 -27
1	2	22	0.00	0.00		-15 17 10
1	2	22	0.00	0.00		-15 9 17
/	1	33	0.00	0.00		-- -- -- --
/	1	33	0.00	0.00		-- -- -- --
1	1	11	0.00	0.00		-30 -30 -22
1	1	11	0.00	0.00		-27 -30 -31
1	2	22	0.00	0.00		-22 13 24
1	2	22	0.00	0.00		-30 22 24
/	1	33	0.00	0.00		-- -- -- --
/	1	33	0.00	0.00		-- -- -- --
1	1	11	0.00	0.00		-40 -33 -34
1	2	22	0.00	0.00		-22 40 24
1	2	22	0.00	0.00		-122 -124 -118
/	1	33	0.00	0.00		-- -- -- --
/	1	33	0.00	0.00		-- -- -- --
1	1	11	0.00	0.00		-118 -124 -107
1	1	11	0.00	0.00		-140 -138 -140
1	2	22	0.00	0.00		-140 -130 -131
1	2	22	0.00	0.00		-130 -130 -134
/	1	33	0.00	0.00		-- -- -- --

Elenco tipi plinti/pali

Simbologia
Comm. = Commento
Crit. = Numero del criterio di progetto
Dp = Diametro pali
Lp = Lunghezza pali
R = Rotazione testa
B = Bloccata
L = Libera
Tipo = Tipologia
P = Palo
Tl = Numero del tipo plinto/palo
Tp = Tipo palo
T = Trivellato

Tl	Tipo	Tp	Comm.	Lp <m>	R	Dp <m>	Crit.
1	P	T	Palo singolo	25.00	L	1.20	3

Elenco plinti/pali

Simbologia
Kt = Coeff. di sottofondo su suolo elastico alla Winkler
Nodo = Nodo plinto/palo
PL = Plinto/Palo
Tl = Numero del tipo plinto/palo

PL	Tl	Nodo	Kt <daN/cmc>
1	1	-40	---
2	1	-104	---
3	1	-138	---
4	1	-152	---
5	1	-153	---
6	1	-139	---
7	1	-105	---
8	1	-41	---
9	1	-23	---
10	1	-17	---
11	1	-22	---
12	1	-4	---
13	1	-3	---
14	1	-7	---
15	1	-15	---
16	1	-29	---
17	1	-44	---
18	1	-78	---
19	1	-126	---
20	1	-142	---
21	1	-154	---
22	1	-162	---
23	1	-166	---
24	1	-167	---
25	1	-163	---
26	1	-155	---
27	1	-143	---
28	1	-127	---
29	1	-81	---
30	1	-45	---
31	1	-28	---
32	1	-16	---
33	1	-8	---

Carichi

Elenco tipi CCE

Simbologia
γ max = Coeff. γ max
γ min. = Coeff. γ min.
ψ_0 = Coeff. ψ_0
$\psi_{0,s}$ = Coeff. ψ_0 sismico (D.M. 96)
ψ_1 = Coeff. ψ_1
ψ_2 = Coeff. ψ_2
Comm. = Commento
Durata = Durata del carico
P = Permanente
Tipo = Tipologia
G = Permanente
Qv = Variabile vento

Tipo CCE = Tipo condizione di carico elementare

Tipo CCE	Comm.	Tipo	Durata	γ min.	γ max	ψ_0	ψ_1	ψ_2	$\psi_{0,s}$
1	D.M. 18 Permanenti strutturali	G	P	1.00	1.35				

Condizioni di carico elementari

Simbologia
CCE = Numero della condizione di carico elementare
Comm. = Commento
Dir. = Direzione del vento
Jpx = Moltiplicatore del momento d'inerzia intorno all'asse X
Jpy = Moltiplicatore del momento d'inerzia intorno all'asse Y
Jpz = Moltiplicatore del momento d'inerzia intorno all'asse Z
Mx = Moltiplicatore della massa in dir. X
My = Moltiplicatore della massa in dir. Y
Mz = Moltiplicatore della massa in dir. Z
Sic. = Contributo alla sicurezza
S = a sfavore
Tipo = Tipologia di pressione vento
M = Massimizzata
E = Esterna
I = Interna
Tipo CCE = Tipo di CCE per calcolo agli stati limite
Var. = Tipo di variabilità
B = di base
s = Coeff. di riduzione (T.A. o S.L. D.M. 96)

CCE	Comm.	Tipo CCE	Sic.	Var.	s	Dir. <grad>	Tipo	Mx	My	Mz	Jpx	Jpy	Jpz
1		1	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00

Elenco carichi nodiCondizione di carico n. 1:
Carichi concentrati

Simbologia
Fx = Componente X della forza applicata
Fy = Componente Y della forza applicata
Fz = Componente Z della forza applicata
Mx = Momento intorno all'asse X
My = Momento intorno all'asse Y
Mz = Momento intorno all'asse Z
Nodo = Numero del nodo

Nodo	Fx <daN>	Fy <daN>	Fz <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
-88	164800.00	0.00	722200.00	20303400.00	0.00	1806100.00

Elenco carichi elementi bidimensionaliCondizione di carico n. 1:
Carichi uniformi

Simbologia
Bid. = Numero del muro/elemento bidimensionale
DC = Direzione del carico
G = secondo gli assi globali
L = secondo gli assi locali
N1 = Nodo1
N2 = Nodo2
N3 = Nodo3
N4 = Nodo4
Qx = Carico in dir. X
Qy = Carico in dir. Y
Qz = Carico in dir. Z
T = Tipo di carico
PP = Peso proprio
M = Manuale

Bid.	N1	N2	N3	N4	T	DC	Qx <daN/mq>	Qy <daN/mq>	Qz <daN/mq>
2	--	--	--	--	M	G	0.00	0.00	2730.00

Elenco peso proprio elementi bidimensionali

Simbologia
Comm. = Commento
Mat. = Materiale
P = Peso specifico
PQ = Peso specifico per unità di superficie
Spess. = Spessore
Tb = Numero del tipo muro/elemento bidimensionale

Tb	Comm.	Spess. <cm>	Mat.	P <daN/mc>	PQ <daN/mq>

1	Platea h=1.50 mt	150.00	Calcestruzzo classe C40/50	2500.00	3750.00
2	Platea H=2.6 mt	260.00	Calcestruzzo classe C40/50	2500.00	6500.00
3	Platea H= 3.50 mt	350.00	Calcestruzzo classe C40/50	2500.00	8750.00

Risultati del calcolo

Parametri di calcolo

La modellazione della struttura e la rielaborazione dei risultati del calcolo sono stati effettuati con:
ModeSt ver. 8.26, licenza n. 7116, prodotto da Tecnisoft s.a.s. - Prato
La struttura è stata calcolata utilizzando come solutore agli elementi finiti:
Xfinest ver. 9.4.3, prodotto da Ce.A.S. S.r.l. - Milano

Tipo di normativa: stati limite D.M. 18
Tipo di calcolo: statico
Vincoli esterni: Considera sempre vincoli assegnati in modellazione
Schematizzazione piani rigidi: nessun impalcato rigido
Modalità di recupero masse secondarie: mantenere sul nodo masse e forze relative

Generazione combinazioni
- Lineari: Si
- Valuta spostamenti e non sollecitazioni: No
- Buckling: No

Opzioni di calcolo
- Sono state considerate infinitamente rigide le zone di connessione fra travi, pilastri ed elementi bidimensionali con una riduzione del 20%
- Calcolo con offset rigidi dai nodi: No
- Uniformare i carichi variabili: No
- Massimizzare i carichi variabili: No
- Recupero carichi zone rigide: taglio e momento flettente

Opzioni del solutore
- Tipo di elemento bidimensionale: QF46
- Calcolo sforzo nei nodi: No
- Trascura deformabilità a taglio delle aste: No
- Analisi dinamica con metodo di Lanczos: Si
- Check sequenza di Sturm: Si
- Analisi non lineare con Newton modificato: No
- Usa formulazione secante per buckling: No
- Trascura buckling torsionale: No

Dati struttura
- Edificio esistente: No
- Tipo di opera: Grande opera
- Vita nominale V_N: 100.00
- Classe d'uso: Classe III
- Forze orizzontali convenzionali per stati limite non sismici: No
- Genera stati limite per verifiche di resistenza al fuoco: No

Ambienti di caricoSimbologia
N = Numero
Comm. = Commento
1 =
F = azioni orizzontali convenzionali
SLU = Stato limite ultimo
SLR = Stato limite per combinazioni rare
SLF = Stato limite per combinazioni frequenti
SLQ/D = Stato limite per combinazioni quasi permanenti o di danno
S = Si
N = No

N	Comm.	1	SLU	SLR	SLF	SLQ
1	Calcolo statico	S	S	S	S	S

Elenco combinazioni di carico simboliche

Simbologia
CC = Numero della combinazione delle condizioni di carico elementari
Comm. = Commento
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente

CC	Comm.	TCC	1
1	Amb. 1 (SLU)	SLU	Y max
2	Amb. 1 (SLE R)	SLE R	1
3	Amb. 1 (SLE F)	SLE F	1
4	Amb. 1 (SLE Q)	SLE Q	1

Genera le combinazioni con un solo carico di tipo variabile come di base: No

Considera sollecitazioni dinamiche con segno dei modi principali: No

Combinazioni delle CCE

Simbologia
An. = Tipo di analisi
L = Lineare
NL = Non lineare
Bk = Buckling
S = Si
N = No
CC = Numero della combinazione delle condizioni di carico elementari
Comm. = Commento
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente

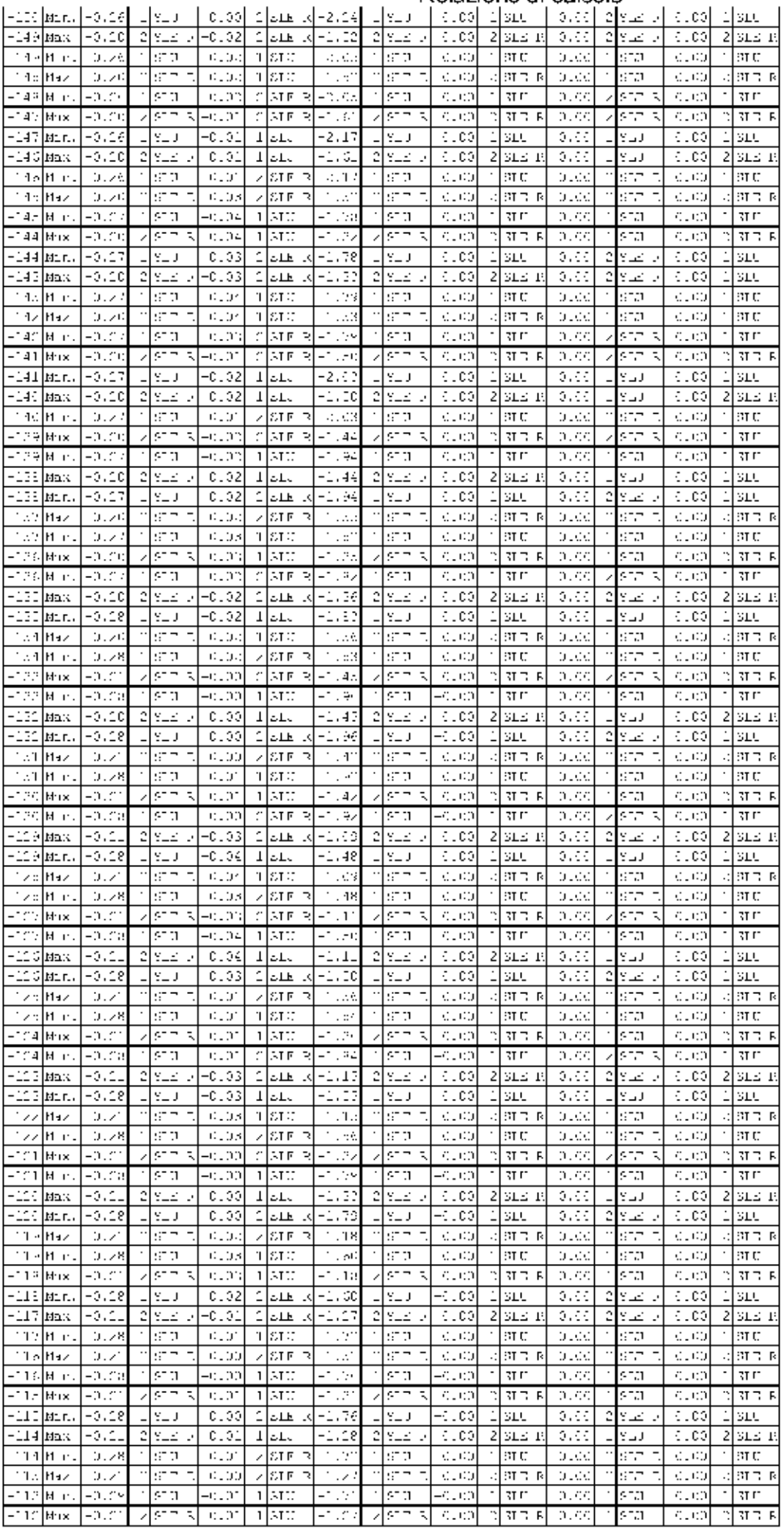
CC	Comm.	TCC	An.	Bk	1
1	Amb. 1 (SLU)	SLU	L	N	1.35
2	Amb. 1 (SLE R)	SLE R	L	N	1.00
3	Amb. 1 (SLE F)	SLE F	L	N	1.00
4	Amb. 1 (SLE Q)	SLE Q	L	N	1.00

Spostamenti dei nodi

Simbologia
CC = Numero della combinazione delle condizioni di carico elementari
Nodo = Numero del nodo
Rx = Rotazione intorno all'asse X
Ry = Rotazione intorno all'asse Y
Rz = Rotazione intorno all'asse Z
Sx = Spostamento in dir. X
Sy = Spostamento in dir. Y
Sz = Spostamento in dir. Z
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente

I valori degli spostamenti nodali per CC di tipo sismico sono amplificati come da normativa

Nodo		Sx <cm>	CC	TCC	Sy <cm>	CC	TCC	Sz <cm>	CC	TCC	Rx <rad>	CC	TCC	Ry <rad>	CC	TCC	Rz <rad>	CC	TCC
-169	Max	-0.18	2	SLE R	-0.00	2	SLE R	-1.71	2	SLE R	0.00	2	SLE R	0.00	2	SLE R	0.00	2	SLE R
-169	Min.	-0.25	1	SLU	-0.01	1	SLU	-2.31	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
-168	Max	-0.18	2	SLE R	0.01	1	SLU	-1.71	2	SLE R	0.00	2	SLE R	0.00	1	SLU	0.00	2	SLE R
-168	Min.	-0.25	1	SLU	0.00	2	SLE R	-2.31	1	SLU	0.00	1	SLU	0.00	2	SLE R	0.00	1	SLU
-167	Max	-0.18	2	SLE R	-0.00	2	SLE R	-1.70	2	SLE R	0.00	2	SLE R	0.00	2	SLE R	0.00	1	SLU
-167	Min.	-0.25	1	SLU	-0.01	1	SLU	-2.30	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
-166	Max	-0.18	2	SLE R	0.01	1	SLU	-1.70	2	SLE R	0.00	2	SLE R	0.00	1	SLU	0.00	1	SLU
-166	Min.	-0.25	1	SLU	0.00	2	SLE R	-2.30	1	SLU	0.00	1	SLU	0.00	2	SLE R	0.00	1	SLU
-165	Max	-0.19	2	SLE R	-0.01	2	SLE R	-1.64	2	SLE R	0.00	2	SLE R	0.00	2	SLE R	0.00	2	SLE R
-165	Min.	-0.25	1	SLU	-0.02	1	SLU	-2.21	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
-164	Max	-0.19	2	SLE R	0.02	1	SLU	-1.64	2	SLE R	0.00	2	SLE R	0.00	1	SLU	0.00	2	SLE R
-164	Min.	-0.25	1	SLU	0.01	2	SLE R	-2.21	1	SLU	0.00	1	SLU	0.00	2	SLE R	0.00	1	SLU
-163	Max	-0.19	2	SLE R	-0.01	2	SLE R	-1.64	2	SLE R	0.00	2	SLE R	0.00	2	SLE R	0.00	1	SLU
-163	Min.	-0.25	1	SLU	-0.02	1	SLU	-2.21	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
-162	Max	-0.19	2	SLE R	0.02	1	SLU	-1.64	2	SLE R	0.00	2	SLE R	0.00	1	SLU	0.00	1	SLU
-162	Min.	-0.25	1	SLU	0.01	2	SLE R	-2.21	1	SLU	0.00	1	SLU	0.00	2	SLE R	0.00	1	SLU
-161	Max	-0.19	2	SLE R	-0.00	2	SLE R	-1.69	2	SLE R	0.00	2	SLE R	0.00	2	SLE R	0.00	2	SLE R
-161	Min.	-0.26	1	SLU	-0.01	1	SLU	-2.29	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
-160	Max	-0.19	2	SLE R	0.00	1	SLU	-1.70	2	SLE R	0.00	2	SLE R	0.00	1	SLU	0.00	2	SLE R
-160	Min.	-0.26	1	SLU	0.00	2	SLE R	-2.29	1	SLU	0.00	1	SLU	0.00	2	SLE R	0.00	1	SLU
-159	Max	-0.19	2	SLE R	-0.02	2	SLE R	-1.50	2	SLE R	0.00	2	SLE R	0.00	2	SLE R	0.00	2	SLE R
-159	Min.	-0.26	1	SLU	-0.03	1	SLU	-2.03	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
-158	Max	-0.19	2	SLE R	0.03	1	SLU	-1.51	2	SLE R	0.00	2	SLE R	0.00	1	SLU	0.00	2	SLE R
-158	Min.	-0.26	1	SLU	0.02	2	SLE R	-2.03	1	SLU	0.00	1	SLU	0.00	2	SLE R	0.00	1	SLU
-157	Max	-0.19	2	SLE R	-0.01	2	SLE R	-1.63	2	SLE R	0.00	2	SLE R	0.00	2	SLE R	0.00	2	SLE R
-157	Min.	-0.26	1	SLU	-0.02	1	SLU	-2.20	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
-156	Max	-0.19	2	SLE R	0.02	1	SLU	-1.63	2	SLE R	0.00	2	SLE R	0.00	1	SLU	0.00	2	SLE R
-156	Min.	-0.26	1	SLU	0.01	2	SLE R	-2.21	1	SLU	0.00	1	SLU	0.00	2	SLE R	0.00	1	SLU
-155	Max	-0.19	2	SLE R	-0.02	2	SLE R	-1.51	2	SLE R	0.00	2	SLE R	0.00	2	SLE R	0.00	1	SLU
-155	Min.	-0.26	1	SLU	-0.03	1	SLU	-2.03	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
-154	Max	-0.19	2	SLE R	0.03	1	SLU	-1.51	2	SLE R	0.00	2	SLE R	0.00	1	SLU	0.00	1	SLU
-154	Min.	-0.26	1	SLU	0.02	2	SLE R	-2.04	1	SLU	0.00	1	SLU	0.00	2	SLE R	0.00	1	SLU
-153	Max	-0.19	2	SLE R	-0.01	2	SLE R	-1.65	2	SLE R	0.00	2	SLE R	0.00	2	SLE R	0.00	1	SLU
-153	Min.	-0.26	1	SLU	-0.01	1	SLU	-2.23	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
-152	Max	-0.19	2	SLE R	0.01	1	SLU	-1.65	2	SLE R	0.00	2	SLE R	0.00	1	SLU	0.00	1	SLU
-152	Min.	-0.26	1	SLU	0.01	2	SLE R	-2.23	1	SLU	0.00	1	SLU	0.00	2	SLE R	0.00	1	SLU
-151	Max	-0.19	2	SLE R	-0.00	2	SLE R	-1.66	2	SLE R	0.00	2	SLE R	0.00	2	SLE R	0.00	2	SLE R
-151	Min.	-0.26	1	SLU	-0.00	1	SLU	-2.24	1	SLU	0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
-150	Max	-0.19	2	SLE R	0.00	1	SLU	-1.66	2	SLE R	0.00	2	SLE R	0.00	1	SLU	0.00	2	SLE R



-110	Min.	-0.28	1	SLU	0.00	1	ELE	-1.71	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU				
-111	Max	-0.21	2	SLE	0.00	1	ELE	-1.24	2	SLE	-0.00	2	SLE R	0.00	1	SLU	0.00	2	SLE R				
-11	Min.	0.28	1	STD	0.00	2	STF R	-1.68	1	STD	0.00	1	STC	0.00	1	STF T	0.00	1	STC				
-11	Max	0.27	1	STF T	0.00	1	STC	-1.28	1	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-112	Min.	-0.28	1	STD	0.00	2	STF R	-1.69	1	STD	-0.00	1	STC	0.00	2	STF T	0.00	1	STC				
-112	Max	-0.27	2	STF T	-0.00	2	STF R	-1.27	2	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-113	Min.	-0.28	1	SLU	-0.01	1	ELE	-1.66	1	SLU	-0.00	1	SLU	0.00	2	SLE U	0.00	1	SLU				
-113	Max	-0.21	2	SLE U	-0.01	2	ELE	-1.21	2	SLE U	0.00	2	SLE R	0.00	2	SLE U	0.00	2	SLE R				
-12	Min.	0.28	1	STD	0.01	1	STC	-1.64	1	STD	0.00	1	STC	0.00	1	STD	0.00	1	STC				
-12	Max	0.27	1	STF T	0.01	1	STC	-1.25	1	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-120	Min.	-0.28	1	STD	0.01	2	STF R	-1.64	1	STD	-0.00	1	STC	0.00	2	STF T	0.00	1	STC				
-120	Max	-0.27	2	STF T	0.01	1	STC	-1.25	2	STF T	-0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-121	Min.	-0.28	1	SLU	0.01	1	ELE	-1.63	1	SLU	-0.00	1	SLU	0.00	2	SLE U	0.00	1	SLU				
-121	Max	-0.21	2	SLE U	-0.02	2	ELE	-1.17	2	SLE U	0.00	2	SLE R	0.00	2	SLE U	0.00	1	SLU				
-13	Min.	0.28	1	STD	0.02	1	STC	-1.61	1	STD	0.00	1	STC	0.00	1	STD	0.00	1	STC				
-13	Max	0.27	1	STF T	0.02	1	STC	-1.22	1	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-130	Min.	-0.28	1	STD	0.02	2	STF R	-1.61	1	STD	-0.00	1	STC	0.00	2	STF T	0.00	1	STC				
-130	Max	-0.27	2	STF T	-0.00	2	STF R	-1.17	2	STF T	0.00	2	STT R	0.00	1	STD	0.00	1	STT R				
-131	Min.	-0.28	1	SLU	-0.02	1	ELE	-1.58	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU				
-131	Max	-0.21	2	SLE U	0.01	1	ELE	-1.17	2	SLE U	0.00	2	SLE R	0.00	1	SLU	0.00	2	SLE R				
-14	Min.	0.28	1	STD	0.01	2	STF R	-1.58	1	STD	0.00	1	STC	0.00	1	STD	0.00	1	STC				
-14	Max	0.27	1	STF T	0.01	1	STC	-1.17	1	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-140	Min.	-0.28	1	STD	0.01	2	STF R	-1.57	1	STD	-0.00	1	STC	0.00	2	STF T	0.00	1	STC				
-140	Max	-0.27	2	STF T	-0.00	2	STF R	-1.13	2	STF T	0.00	2	STT R	0.00	2	STF T	0.00	1	STT R				
-141	Min.	-0.28	1	SLU	-0.02	1	ELE	-1.53	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU				
-141	Max	-0.21	2	SLE U	0.00	1	ELE	-1.13	2	SLE U	0.00	2	SLE R	0.00	2	SLE U	0.00	2	SLE R				
-15	Min.	0.28	1	STD	0.00	1	STC	-1.54	1	STD	0.00	1	STC	0.00	1	STD	0.00	1	STC				
-15	Max	0.27	1	STF T	0.00	1	STC	-1.13	1	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-150	Min.	-0.28	1	STD	0.00	2	STF R	-1.54	1	STD	-0.00	1	STC	0.00	2	STF T	0.00	1	STC				
-150	Max	-0.27	2	STF T	-0.01	2	STF R	-1.10	2	STF T	0.00	2	STT R	0.00	1	STD	0.00	1	STT R				
-151	Min.	-0.28	1	SLU	-0.01	1	ELE	-1.50	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU				
-151	Max	-0.21	2	SLE U	0.00	1	ELE	-1.10	2	SLE U	0.00	2	SLE R	0.00	2	SLE U	0.00	2	SLE R				
-16	Min.	0.28	1	STD	0.00	2	STF R	-1.51	1	STD	0.00	1	STC	0.00	1	STD	0.00	1	STC				
-16	Max	0.27	1	STF T	0.00	1	STC	-1.10	1	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-160	Min.	-0.28	1	STD	0.00	2	STF R	-1.50	1	STD	-0.00	1	STC	0.00	2	STF T	0.00	1	STC				
-160	Max	-0.27	2	STF T	-0.00	2	STF R	-1.07	2	STF T	0.00	2	STT R	0.00	1	STD	0.00	1	STT R				
-161	Min.	-0.28	1	SLU	-0.01	1	ELE	-1.47	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU				
-161	Max	-0.21	2	SLE U	0.00	1	ELE	-1.07	2	SLE U	0.00	2	SLE R	0.00	2	SLE U	0.00	2	SLE R				
-17	Min.	0.28	1	STD	0.00	1	STC	-1.48	1	STD	0.00	1	STC	0.00	1	STD	0.00	1	STC				
-17	Max	0.27	1	STF T	0.00	1	STC	-1.07	1	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-170	Min.	-0.28	1	STD	0.00	2	STF R	-1.47	1	STD	-0.00	1	STC	0.00	2	STF T	0.00	1	STC				
-170	Max	-0.27	2	STF T	-0.00	2	STF R	-1.04	2	STF T	0.00	2	STT R	0.00	1	STD	0.00	1	STT R				
-171	Min.	-0.28	1	SLU	-0.01	1	ELE	-1.44	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU				
-171	Max	-0.21	2	SLE U	0.00	1	ELE	-1.04	2	SLE U	0.00	2	SLE R	0.00	2	SLE U	0.00	2	SLE R				
-18	Min.	0.28	1	STD	0.00	1	STC	-1.45	1	STD	0.00	1	STC	0.00	1	STD	0.00	1	STC				
-18	Max	0.27	1	STF T	0.00	1	STC	-1.04	1	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-180	Min.	-0.28	1	STD	0.00	2	STF R	-1.44	1	STD	-0.00	1	STC	0.00	2	STF T	0.00	1	STC				
-180	Max	-0.27	2	STF T	-0.00	2	STF R	-1.01	2	STF T	0.00	2	STT R	0.00	1	STD	0.00	1	STT R				
-181	Min.	-0.28	1	SLU	-0.01	1	ELE	-1.41	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU				
-181	Max	-0.21	2	SLE U	0.00	1	ELE	-1.01	2	SLE U	0.00	2	SLE R	0.00	2	SLE U	0.00	2	SLE R				
-19	Min.	0.28	1	STD	0.00	2	STF R	-1.42	1	STD	0.00	1	STC	0.00	1	STD	0.00	1	STC				
-19	Max	0.27	1	STF T	0.00	1	STC	-1.01	1	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-190	Min.	-0.28	1	STD	0.00	2	STF R	-1.41	1	STD	-0.00	1	STC	0.00	2	STF T	0.00	1	STC				
-190	Max	-0.27	2	STF T	-0.00	2	STF R	-0.98	2	STF T	0.00	2	STT R	0.00	1	STD	0.00	1	STT R				
-191	Min.	-0.28	1	SLU	-0.01	1	ELE	-1.38	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU				
-191	Max	-0.21	2	SLE U	-0.01	2	ELE	-1.00	2	SLE U	0.00	2	SLE R	0.00	2	SLE U	0.00	2	SLE R				
-2	Min.	0.28	1	STD	0.00	1	STC	-1.42	1	STD	0.00	1	STC	0.00	1	STD	0.00	1	STC				
-2	Max	0.27	1	STF T	0.00	1	STC	-1.01	1	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-20	Min.	-0.28	1	STD	0.00	2	STF R	-1.41	1	STD	-0.00	1	STC	0.00	2	STF T	0.00	1	STC				
-20	Max	-0.27	2	STF T	-0.00	2	STF R	-0.98	2	STF T	0.00	2	STT R	0.00	1	STD	0.00	1	STT R				
-21	Min.	-0.28	1	SLU	-0.01	1	ELE	-1.38	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU				
-21	Max	-0.21	2	SLE U	-0.01	2	ELE	-0.96	2	SLE U	0.00	2	SLE R	0.00	2	SLE U	0.00	2	SLE R				
-210	Min.	-0.28	1	STD	-0.01	1	STC	-1.38	1	STD	-0.00	1	STC	0.00	1	STD	0.00	1	STC				
-210	Max	-0.27	2	STF T	-0.01	2	STF R	-0.94	2	STF T	0.00	2	STT R	0.00	1	STD	0.00	1	STT R				
-211	Min.	-0.28	1	SLU	-0.02	1	ELE	-1.35	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU				
-211	Max	-0.21	2	SLE U	-0.01	2	ELE	-0.94	2	SLE U	0.00	2	SLE R	0.00	2	SLE U	0.00	2	SLE R				
-22	Min.	0.28	1	STD	0.01	1	STC	-1.35	1	STD	0.00	1	STC	0.00	1	STD	0.00	1	STC				
-22	Max	0.27	1	STF T	0.01	1	STC	-0.94	1	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-220	Min.	-0.28	1	STD	0.01	2	STF R	-1.34	1	STD	-0.00	1	STC	0.00	2	STF T	0.00	1	STC				
-220	Max	-0.27	2	STF T	-0.00	2	STF R	-0.91	2	STF T	0.00	2	STT R	0.00	1	STD	0.00	1	STT R				
-221	Min.	-0.28	1	SLU	-0.02	1	ELE	-1.32	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU				
-221	Max	-0.21	2	SLE U	0.00	1	ELE	-0.91	2	SLE U	0.00	2	SLE R	0.00	2	SLE U	0.00	2	SLE R				
-23	Min.	0.28	1	STD	0.00	2	STF R	-1.32	1	STD	0.00	1	STC	0.00	1	STD	0.00	1	STC				
-23	Max	0.27	1	STF T	0.00	1	STC	-0.91	1	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-230	Min.	-0.28	1	STD	0.00	2	STF R	-1.31	1	STD	-0.00	1	STC	0.00	2	STF T	0.00	1	STC				
-230	Max	-0.27	2	STF T	-0.00	2	STF R	-0.88	2	STF T	0.00	2	STT R	0.00	1	STD	0.00	1	STT R				
-231	Min.	-0.28	1	SLU	-0.01	1	ELE	-1.29	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU				
-231	Max	-0.21	2	SLE U	0.00	1	ELE	-0.88	2	SLE U	0.00	2	SLE R	0.00	2	SLE U	0.00	2	SLE R				
-24	Min.	0.28	1	STD	0.00	1	STC	-1.28	1	STD	0.00	1	STC	0.00	1	STD	0.00	1	STC				
-24	Max	0.27	1	STF T	0.00	1	STC	-0.88	1	STF T	0.00	1	STT R	0.00	1	STD	0.00	1	STT R				
-240	Min.	-0.28	1	STD	0.00	2	STF R	-1.28	1	STD	-0.00	1	STC	0.00	2	STF T	0.00	1	STC				
-240	Max	-0.27	2	STF T	-0.00	2	STF R	-0.85	2	STF T	0.00	2	STT R	0.00	1	STD	0.00	1	STT R				

-74	Min.	-0.28	1	SLU	0.01	1	ELE X	-1.40	1	SLU	-0.00	1	SLU	0.00	2	SLE V	0.00	1	SLU
-73	Max	-0.22	2	SLE V	-0.01	1	ELE X	-1.01	2	SLE V	-0.00	2	SLS IR	0.00	2	SLE V	0.00	2	SLS IR
72	Min.	0.00	1	STC	0.01	1	STC	1.08	1	STC	0.00	1	STC	0.00	1	STC	0.00	1	STC
72	Max	0.27	11	STC 3	0.01	1	STC	1.01	11	STC 3	0.00	3	STC R	0.00	1	STC	0.00	3	STC R
-70	Min.	-0.28	1	STC	0.01	2	STF R	-1.24	1	STC	-0.00	1	STC	0.00	7	STC 3	0.00	1	STC
-71	Max	-0.24	7	STC 3	-0.01	2	STF R	-1.00	7	STC 3	-0.00	3	STC R	0.00	7	STC 3	0.00	3	STC R
-71	Min.	-0.30	1	SLU	-0.01	1	ELE	-1.33	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
-70	Max	-0.22	2	SLE V	0.01	1	ELE	-1.00	2	SLE V	-0.00	2	SLS IR	0.00	1	SLU	0.00	2	SLS IR
70	Min.	0.00	1	STC	0.00	7	STF R	1.00	1	STC	0.00	1	STC	0.00	11	STC 3	0.00	1	STC
69	Max	0.27	11	STC 3	0.00	7	STF R	0.98	11	STC 3	0.00	3	STC R	0.00	11	STC 3	0.00	3	STC R
-69	Min.	-0.28	1	STC	-0.00	1	STC	-1.24	1	STC	-0.00	1	STC	0.00	1	STC	-0.00	1	STC
-68	Max	-0.24	7	STC 3	0.00	1	STC	-0.99	7	STC 3	-0.00	3	STC R	0.00	1	STC	-0.00	3	STC R
-68	Min.	-0.30	1	SLU	0.00	2	ELE X	-1.33	1	SLU	-0.00	1	SLU	0.00	2	SLE V	-0.00	1	SLU
-67	Max	-0.22	2	SLE V	-0.01	2	ELE X	-0.97	2	SLE V	-0.00	2	SLS IR	0.00	2	SLE V	0.00	2	SLS IR
67	Min.	0.00	1	STC	0.01	1	STC	1.01	1	STC	0.00	1	STC	0.00	1	STC	0.00	1	STC
66	Max	0.27	11	STC 3	0.01	1	STC	0.94	11	STC 3	0.00	3	STC R	0.00	1	STC	0.00	3	STC R
-66	Min.	-0.28	1	STC	0.01	2	STF R	-1.21	1	STC	-0.00	1	STC	0.00	7	STC 3	0.00	1	STC
-65	Max	-0.24	7	STC 3	-0.01	2	STF R	-0.96	7	STC 3	0.00	3	STC R	0.00	7	STC 3	0.00	3	STC R
-65	Min.	-0.30	1	SLU	-0.01	1	ELE	-1.28	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
-64	Max	-0.22	2	SLE V	0.02	1	ELE	-0.93	2	SLE V	0.00	2	SLS IR	0.00	1	SLU	0.00	2	SLS IR
64	Min.	0.00	1	STC	0.01	7	STF R	1.28	1	STC	0.00	1	STC	0.00	11	STC 3	0.00	1	STC
-63	Max	-0.24	7	STC 3	-0.01	2	STF R	-0.94	7	STC 3	-0.00	3	STC R	0.00	7	STC 3	0.00	3	STC R
-63	Min.	-0.30	1	STC	-0.01	1	STC	-1.20	1	STC	-0.00	1	STC	0.00	1	STC	0.00	1	STC
-62	Max	-0.22	2	SLE V	0.01	1	ELE	-0.90	2	SLE V	-0.00	2	SLS IR	0.00	1	SLU	0.00	2	SLS IR
-62	Min.	-0.30	1	SLU	0.01	2	ELE X	-1.28	1	SLU	-0.00	1	SLU	0.00	2	SLE V	0.00	1	SLU
61	Max	0.27	11	STC 3	0.00	1	STC	0.93	11	STC 3	0.00	3	STC R	0.00	11	STC 3	0.00	3	STC R
61	Min.	0.00	1	STC	0.00	7	STF R	1.26	1	STC	0.00	1	STC	0.00	1	STC	0.00	1	STC
-60	Max	-0.24	7	STC 3	0.00	2	STF R	-0.91	7	STC 3	-0.00	3	STC R	0.00	1	STC	0.00	3	STC R
-60	Min.	-0.30	1	STC	0.00	1	STC	-1.25	1	STC	-0.00	1	STC	0.00	7	STC 3	0.00	1	STC
-59	Max	-0.22	2	SLE V	-0.00	2	ELE X	-0.89	2	SLE V	-0.00	2	SLS IR	0.00	2	SLE V	0.00	2	SLS IR
-59	Min.	-0.30	1	SLU	-0.01	1	ELE	-1.21	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
58	Max	0.27	11	STC 3	0.01	1	STC	0.89	11	STC 3	0.00	3	STC R	0.00	1	STC	0.00	3	STC R
58	Min.	0.00	1	STC	0.00	7	STF R	1.21	1	STC	0.00	1	STC	0.00	11	STC 3	0.00	1	STC
-57	Max	-0.24	7	STC 3	-0.00	2	STF R	-0.86	7	STC 3	-0.00	3	STC R	0.00	7	STC 3	0.00	3	STC R
-57	Min.	-0.30	1	STC	-0.01	1	STC	-1.18	1	STC	-0.00	1	STC	0.00	1	STC	0.00	1	STC
-56	Max	-0.22	2	SLE V	0.00	1	ELE	-0.86	2	SLE V	-0.00	2	SLS IR	0.00	1	SLU	0.00	2	SLS IR
-56	Min.	-0.30	1	SLU	0.00	2	ELE X	-1.16	1	SLU	-0.00	1	SLU	0.00	2	SLE V	0.00	1	SLU
55	Max	0.27	11	STC 3	0.01	1	STF R	0.84	11	STC 3	0.00	3	STC R	0.00	11	STC 3	0.00	3	STC R
55	Min.	0.00	1	STC	0.01	1	STC	1.16	1	STC	0.00	1	STC	0.00	1	STC	0.00	1	STC
-54	Max	-0.24	7	STC 3	0.01	1	STC	-0.84	7	STC 3	-0.00	3	STC R	0.00	1	STC	0.00	3	STC R
-54	Min.	-0.30	1	STC	-0.01	1	STC	-1.14	1	STC	-0.00	1	STC	0.00	7	STC 3	0.00	1	STC
-53	Max	-0.22	2	SLE V	-0.02	2	ELE X	-0.80	2	SLE V	0.00	2	SLS IR	0.00	2	SLE V	0.00	2	SLS IR
-53	Min.	-0.30	1	SLU	-0.03	1	ELE	-1.08	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
52	Max	0.27	11	STC 3	0.04	1	STC	0.80	11	STC 3	0.00	3	STC R	0.00	1	STC	0.00	3	STC R
52	Min.	0.00	1	STC	0.04	7	STF R	1.08	1	STC	0.00	1	STC	0.00	11	STC 3	0.00	1	STC
-51	Max	-0.24	7	STC 3	-0.00	2	STF R	-0.82	7	STC 3	-0.00	3	STC R	0.00	7	STC 3	0.00	3	STC R
-51	Min.	-0.30	1	STC	-0.00	1	STC	-1.13	1	STC	-0.00	1	STC	0.00	1	STC	0.00	1	STC
-50	Max	-0.22	2	SLE V	0.00	1	ELE	-0.84	2	SLE V	-0.00	2	SLS IR	0.00	1	SLU	0.00	2	SLS IR
-50	Min.	-0.30	1	SLU	0.00	2	ELE X	-1.10	1	SLU	-0.00	1	SLU	0.00	2	SLE V	0.00	1	SLU
49	Max	0.27	11	STC 3	0.04	7	STF R	0.77	11	STC 3	0.00	3	STC R	0.00	11	STC 3	0.00	3	STC R
49	Min.	0.00	1	STC	0.04	1	STC	1.08	1	STC	0.00	1	STC	0.00	1	STC	0.00	1	STC
-48	Max	-0.24	7	STC 3	0.04	1	STC	-0.77	7	STC 3	-0.00	3	STC R	0.00	1	STC	0.00	3	STC R
-48	Min.	-0.30	1	SLU	0.03	2	ELE X	-1.05	1	SLU	-0.00	1	SLU	0.00	2	SLE V	0.00	1	SLU
-47	Max	-0.22	2	SLE V	-0.02	2	ELE X	-0.77	2	SLE V	0.00	2	SLS IR	0.00	2	SLE V	0.00	2	SLS IR
47	Min.	0.00	1	STC	0.04	1	STC	0.77	1	STC	0.00	1	STC	0.00	1	STC	0.00	1	STC
46	Max	0.27	11	STC 3	0.04	1	STC	0.74	11	STC 3	0.00	3	STC R	0.00	1	STC	0.00	3	STC R
-46	Min.	-0.28	1	STC	0.03	2	STF R	-0.97	1	STC	-0.00	1	STC	0.00	7	STC 3	0.00	1	STC
-39	Max	-0.24	7	STC 3	-0.00	2	STF R	-0.74	7	STC 3	-0.00	3	STC R	0.00	7	STC 3	0.00	3	STC R
-39	Min.	-0.31	1	SLU	-0.01	1	ELE	-0.93	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU
-38	Max	-0.23	2	SLE V	0.01	1	ELE	-0.70	2	SLE V	-0.00	2	SLS IR	0.00	1	SLU	0.00	2	SLS IR
38	Min.	0.00	1	STC	0.00	7	STF R	0.93	1	STC	0.00	1	STC	0.00	11	STC 3	0.00	1	STC
37	Max	0.28	11	STC 3	0.00	7	STF R	0.67	11	STC 3	0.00	3	STC R	0.00	11	STC 3	0.00	3	STC R
-37	Min.	-0.27	1	STC	-0.00	1	STC	-0.97	1	STC	-0.00	1	STC	0.00	1	STC	0.00	1	STC
-36	Max	-0.23	7	STC 3	0.00	1	STC	-0.67	7	STC 3	-0.00	3	STC R	0.00	1	STC	0.00	3	STC R

-30	Min.	-0.31	1	SLU	0.00	1	ELE X	-0.01	1	SLU	-0.00	1	SLU	0.00	2	Sism Y	0.00	1	SLU		
-31	Max	-0.03	2	Sism Y	-0.02	1	ELE X	-0.00	2	Sism Y	0.00	2	SLE RA	0.00	2	Sism Y	0.00	2	SLE RA		
28	Min.	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
29	Max	0.03	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-34	Min.	-0.31	1	STAT	0.00	2	STAT	-0.01	1	STAT	-0.00	1	STAT	0.00	2	STAT	0.00	1	STAT		
-35	Max	-0.03	2	Sism Y	-0.00	2	STAT	-0.00	2	Sism Y	0.00	2	STAT	0.00	2	Sism Y	0.00	2	STAT		
-33	Min.	-0.31	1	SLU	-0.03	1	ELE	-0.01	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU		
-32	Max	-0.03	2	Sism Y	0.03	1	ELE	-0.02	2	Sism Y	0.00	2	SLE RA	0.00	1	SLU	0.00	2	SLE RA		
27	Min.	0.00	1	STAT	0.00	2	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
31	Max	0.03	1	STAT	0.01	2	STAT	0.48	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-31	Min.	-0.31	1	STAT	-0.00	1	STAT	-0.01	1	STAT	-0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-30	Max	-0.03	2	Sism Y	0.00	1	STAT	-0.48	2	Sism Y	0.00	2	STAT	0.00	1	STAT	0.00	2	STAT		
-30	Min.	-0.31	1	SLU	0.01	2	ELE X	-0.03	1	SLU	-0.00	1	SLU	0.00	2	Sism Y	0.00	1	SLU		
-29	Max	-0.03	2	Sism Y	0.03	1	ELE	-0.47	2	Sism Y	0.00	2	SLE RA	0.00	1	SLU	0.00	1	SLU		
26	Min.	0.00	1	STAT	0.00	2	STAT	0.01	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
25	Max	0.03	1	STAT	0.00	2	STAT	0.47	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-28	Min.	-0.31	1	STAT	-0.00	1	STAT	-0.01	1	STAT	-0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-27	Max	-0.03	2	Sism Y	-0.00	2	STAT	-0.00	2	Sism Y	0.00	2	STAT	0.00	2	Sism Y	0.00	2	STAT		
-26	Min.	-0.32	1	SLU	-0.04	1	ELE	-0.01	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU		
-25	Max	-0.03	2	Sism Y	0.04	1	ELE	-0.38	2	Sism Y	0.00	2	SLE RA	0.00	1	SLU	0.00	1	SLU		
24	Min.	0.00	1	STAT	0.00	2	STAT	0.01	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-24	Max	-0.04	2	Sism Y	0.00	1	STAT	-0.38	2	Sism Y	0.00	2	STAT	0.00	1	STAT	0.00	2	STAT		
-24	Min.	-0.32	1	SLU	0.01	2	ELE X	-0.01	1	SLU	-0.00	1	SLU	0.00	2	Sism Y	0.00	1	SLU		
23	Max	0.04	1	STAT	0.01	2	STAT	0.37	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
23	Min.	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-23	Max	-0.04	2	Sism Y	0.00	1	STAT	-0.37	2	Sism Y	0.00	2	STAT	0.00	1	STAT	0.00	2	STAT		
-23	Min.	-0.31	1	STAT	-0.00	2	STAT	-0.01	1	STAT	-0.00	1	STAT	0.00	2	STAT	0.00	1	STAT		
-21	Max	-0.24	2	Sism Y	-0.02	1	ELE X	-0.36	2	Sism Y	0.00	2	SLE RA	0.00	2	Sism Y	0.00	2	SLE RA		
-21	Min.	-0.32	1	SLU	-0.02	1	ELE	-0.48	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU		
22	Max	0.04	1	STAT	0.00	1	STAT	0.36	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
22	Min.	0.00	1	STAT	0.00	2	STAT	0.48	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-19	Max	-0.04	2	Sism Y	-0.00	2	STAT	-0.47	2	Sism Y	0.00	2	STAT	0.00	2	Sism Y	0.00	2	STAT		
-19	Min.	-0.32	1	STAT	-0.00	1	STAT	-0.44	1	STAT	-0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-18	Max	-0.24	2	Sism Y	0.00	1	ELE	-0.32	2	Sism Y	0.00	2	SLE RA	0.00	1	SLU	0.00	2	SLE RA		
-18	Min.	-0.32	1	SLU	0.00	2	ELE X	-0.44	1	SLU	-0.00	1	SLU	0.00	2	Sism Y	0.00	1	SLU		
19	Max	0.04	1	STAT	0.00	2	STAT	0.24	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
19	Min.	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-16	Max	-0.04	2	Sism Y	-0.00	2	STAT	-0.24	2	Sism Y	0.00	2	STAT	0.00	2	Sism Y	0.00	2	STAT		
-16	Min.	-0.32	1	STAT	-0.00	1	STAT	-0.29	1	STAT	-0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-17	Max	-0.24	2	Sism Y	0.03	1	ELE	-0.23	2	Sism Y	0.00	2	SLE RA	0.00	1	SLU	0.00	1	SLU		
-17	Min.	-0.32	1	SLU	0.02	2	ELE X	-0.32	1	SLU	-0.00	1	SLU	0.00	2	Sism Y	0.00	1	SLU		
14	Max	0.04	1	STAT	0.01	2	STAT	0.24	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
14	Min.	0.00	1	STAT	0.01	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-13	Max	-0.04	2	Sism Y	0.01	1	STAT	-0.24	2	Sism Y	0.00	2	STAT	0.00	1	STAT	0.00	2	STAT		
-13	Min.	-0.32	1	STAT	0.01	2	STAT	-0.29	1	STAT	-0.00	1	STAT	0.00	2	STAT	0.00	1	STAT		
-12	Max	-0.24	2	Sism Y	-0.02	2	ELE X	-0.13	2	Sism Y	0.00	2	SLE RA	0.00	2	Sism Y	0.00	2	SLE RA		
-12	Min.	-0.32	1	SLU	-0.03	1	ELE	-0.26	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU		
11	Max	0.04	1	STAT	0.03	1	STAT	0.13	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
11	Min.	0.00	1	STAT	0.03	2	STAT	0.26	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-10	Max	-0.04	2	Sism Y	-0.00	2	STAT	-0.13	2	Sism Y	0.00	2	STAT	0.00	1	STAT	0.00	2	STAT		
-10	Min.	-0.31	1	STAT	-0.01	1	STAT	-0.04	1	STAT	-0.00	1	STAT	0.00	2	STAT	0.00	1	STAT		
-9	Max	-0.24	2	Sism Y	0.01	1	ELE	-0.18	2	Sism Y	0.00	2	SLE RA	0.00	2	Sism Y	0.00	2	SLE RA		
-9	Min.	-0.32	1	SLU	0.00	2	ELE X	-0.04	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU		
8	Max	0.04	1	STAT	0.01	2	STAT	0.17	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
8	Min.	0.03	1	STAT	0.03	1	STAT	0.16	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-8	Max	-0.04	2	Sism Y	0.00	1	STAT	-0.17	2	Sism Y	0.00	2	STAT	0.00	1	STAT	0.00	2	STAT		
-8	Min.	-0.31	1	STAT	0.01	2	STAT	-0.16	1	STAT	-0.00	1	STAT	0.00	2	STAT	0.00	1	STAT		
-6	Max	-0.23	2	Sism Y	-0.01	2	ELE X	-0.06	2	Sism Y	0.00	2	SLE RA	0.00	2	Sism Y	0.00	2	SLE RA		
-6	Min.	-0.32	1	SLU	-0.02	1	ELE	-0.08	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU		
5	Max	0.03	1	STAT	0.03	1	STAT	0.06	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
5	Min.	0.03	1	STAT	0.01	2	STAT	0.08	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-4	Max	-0.03	2	Sism Y	-0.00	2	STAT	-0.06	2	Sism Y	0.00	2	STAT	0.00	2	Sism Y	0.00	1	STAT		
-4	Min.	-0.32	1	SLU	-0.01	1	ELE	-0.07	1	SLU	-0.00	1	SLU	0.00	1	SLU	0.00	1	SLU		
-3	Max	-0.23	2	Sism Y	0.01	1	ELE	-0.03	2	Sism Y	0.00	2	SLE RA	0.00	1	SLU	0.00	1	SLU		
3	Min.	0.03	1	STAT	0.00	2	STAT	0.03	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
2	Max	0.03	1	STAT	0.00	2	STAT	0.07	1	STAT	0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-2	Min.	-0.31	1	STAT	-0.01	1	STAT	0.01	1	STAT	-0.00	1	STAT	0.00	1	STAT	0.00	1	STAT		
-1	Max	-0.03	2	Sism Y	0.01	1	STAT	0.01	2	Sism Y	0.00	2	STAT	0.00	1	STAT	0.00	2	STAT		
-1	Min.	-0.32	1	SLU	0.00	2	ELE X	0.01	2	Sism Y	-0.00	1	SLU	0.00	2	Sism Y	0.00	1	SLU		

Min = -0.32
Max = 0.04

Reazioni vincolari

Simbologia
CC = Numero della combinazione delle condizioni di carico elementari
Fx = Reazione vincolare (forza) in dir. X
Fy = Reazione vincolare (forza) in dir. Y
Fz = Reazione vincolare (forza) in dir. Z
Mx = Reazione vincolare (momento) intorno all'asse X
My = Reazione vincolare (momento) intorno all'asse Y
Mz = Reazione vincolare (momento) intorno all'asse Z
Nodo = Numero del nodo
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente

Nodo		CC	TCC	Fx <daN>	CC	TCC	Fy <daN>	CC	TCC	Fz <daN>	CC	TCC	Mx <daNm>	CC	TCC	My <daNm>	CC	TCC	Mz <daNm>
-167	Max	1	SLU	5775.78	1	SLU	139.45	1	SLU	325212.00	1	SLU	4784.90	1	SLU	7112.64	1	SLU	21286.00
-167	Min	2	SLE R	4278.35	2	SLE R	103.30	2	SLE R	240898.00	2	SLE R	3544.37	2	SLE R	5268.62	1	SLU	15767.40
-166	Max	1	SLU	5774.99	2	SLE R	-102.14	1	SLU	325273.00	1	SLU	4780.05	2	SLE R	-5160.46	1	SLU	19014.00
-166	Min	2	SLE R	4277.77	1	SLU	-137.89	2	SLE R	240943.00	2	SLE R	3540.78	2	SLE R	-6966.63	1	SLU	14084.40
-163	Max	1	SLU	5857.57	1	SLU	408.31	1	SLU	312389.00	1	SLU	10679.60	1	SLU	19788.80	1	SLU	22122.90
-163	Min	2	SLE R	4338.94	2	SLE R	302.46	2	SLE R	231400.00	2	SLE R	7910.80	2	SLE R	14658.40	1	SLU	16387.30
-162	Max	1	SLU	5856.31	2	SLE R	-302.39	1	SLU	312560.00	1	SLU	10688.80	2	SLE R	-14574.30	1	SLU	20092.40
-162	Min	2	SLE R	4338.00	1	SLU	-408.23	2	SLE R	231526.00	2	SLE R	7917.60	2	SLE R	-19675.30	1	SLU	14883.30
-155	Max	1	SLU	6009.55	1	SLU	641.18	1	SLU	287771.00	1	SLU	20713.80	1	SLU	28716.10	1	SLU	21760.10
-155	Min	2	SLE R	4451.52	2	SLE R	474.95	2	SLE R	213163.00	2	SLE R	15343.50	2	SLE R	21271.20	1	SLU	16118.60
-154	Max	1	SLU	6007.07	2	SLE R	-474.67	1	SLU	287981.00	1	SLU	20770.30	2	SLE R	-21236.70	1	SLU	16246.80
-154	Min	2	SLE R	4449.68	1	SLU	-640.81	2	SLE R	213319.00	2	SLE R	15385.40	2	SLE R	-28669.60	1	SLU	12034.70
-153	Max	1	SLU	6038.81	1	SLU	208.03	1	SLU	315619.00	1	SLU	21458.00	1	SLU	10734.80	1	SLU	159637.00
-153	Min	2	SLE R	4473.19	2	SLE R	154.10	2	SLE R	233792.00	2	SLE R	15894.80	2	SLE R	7951.73	1	SLU	118249.00
-152	Max	1	SLU	6042.70	2	SLE R	-156.07	1	SLU	315710.00	1	SLU	21456.20	2	SLE R	-7848.29	1	SLU	147466.00
-152	Min	2	SLE R	4476.07	1	SLU	-210.70	2	SLE R	233859.00	2	SLE R	15893.50	2	SLE R	-10595.20	1	SLU	109234.00
-143	Max	1	SLU	6224.89	1	SLU	820.64	1	SLU	253546.00	1	SLU	32975.90	1	SLU	32425.90	1	SLU	21451.00
-143	Min	2	SLE R	4611.03	2	SLE R	607.88	2	SLE R	187812.00	2	SLE R	24426.60	2	SLE R	24019.20	1	SLU	15889.70
-142	Max	1	SLU	6222.70	2	SLE R	-608.09	1	SLU	253743.00	1	SLU	33060.30	2	SLE R	-23948.80	1	SLU	17192.50
-142	Min	2	SLE R	4609.41	1	SLU	-820.92	2	SLE R	187958.00	2	SLE R	24489.10	2	SLE R	-32330.90	1	SLU	12735.20
-139	Max	1	SLU	6270.22	1	SLU	558.54	1	SLU	274241.00	1	SLU	37079.00	1	SLU	24873.20	1	SLU	162497.00
-139	Min	2	SLE R	4644.61	2	SLE R	413.73	2	SLE R	203142.00	2	SLE R	27465.90	2	SLE R	18424.60	1	SLU	120368.00
-138	Max	1	SLU	6268.79	2	SLE R	-411.90	1	SLU	274379.00	1	SLU	37336.20	2	SLE R	-18504.80	1	SLU	126253.00
-138	Min	2	SLE R	4643.55	1	SLU	-556.06	2	SLE R	203244.00	2	SLE R	27656.40	2	SLE R	-24981.40	1	SLU	93520.90
-127	Max	1	SLU	6476.40	1	SLU	929.59	1	SLU	212189.00	1	SLU	44873.60	1	SLU	30881.60	1	SLU	21968.40
-127	Min	2	SLE R	4797.33	2	SLE R	688.59	2	SLE R	157177.00	2	SLE R	33239.70	2	SLE R	22875.20	1	SLU	16272.90
-126	Max	1	SLU	6475.78	2	SLE R	-689.44	1	SLU	212368.00	1	SLU	44827.10	2	SLE R	-22884.00	1	SLU	17406.80
-126	Min	2	SLE R	4796.87	1	SLU	-930.75	2	SLE R	157310.00	2	SLE R	33205.30	2	SLE R	-30893.40	1	SLU	12893.90
-105	Max	1	SLU	6649.98	1	SLU	719.13	1	SLU	204511.00	1	SLU	55915.30	1	SLU	22826.90	1	SLU	167834.00
-105	Min	2	SLE R	4925.91	2	SLE R	532.69	2	SLE R	151490.00	2	SLE R	41418.70	2	SLE R	16908.80	1	SLU	124322.00
-104	Max	1	SLU	6647.96	2	SLE R	-535.21	1	SLU	204703.00	1	SLU	55868.70	2	SLE R	-16910.80	1	SLU	123266.00
-104	Min	2	SLE R	4924.41	1	SLU	-722.53	2	SLE R	151632.00	2	SLE R	41384.20	2	SLE R	-22829.50	1	SLU	91308.30
-81	Max	1	SLU	6757.66	1	SLU	963.45	1	SLU	166267.00	1	SLU	54146.30	1	SLU	25252.60	1	SLU	20584.10
-81	Min	2	SLE R	5005.68	2	SLE R	713.67	2	SLE R	123161.00	2	SLE R	40108.40	2	SLE R	18705.60	1	SLU	15247.50
-78	Max	1	SLU	6757.23	2	SLE R	-715.09	1	SLU	166477.00	1	SLU	54140.50	2	SLE R	-18667.10	1	SLU	15268.90
-78	Min	2	SLE R	5005.36	1	SLU	-965.38	2	SLE R	123316.00	2	SLE R	40104.10	2	SLE R	-25200.60	1	SLU	11310.30
-45	Max	1	SLU	7017.10	1	SLU	919.22	1	SLU	122242.00	1	SLU	59193.90	1	SLU	17945.20	1	SLU	21711.60
-45	Min	2	SLE R	5197.85	2	SLE R	680.90	2	SLE R	90549.90	2	SLE R	43847.30	2	SLE R	13292.70	1	SLU	16082.70
-44	Max	1	SLU	7018.75	2	SLE R	-680.41	1	SLU	122467.00	1	SLU	59119.70	2	SLE R	-13241.10	1	SLU	20690.20
-44	Min	2	SLE R	5199.08	1	SLU	-918.56	2	SLE R	90716.20	2	SLE R	43792.40	2	SLE R	-17875.50	1	SLU	15326.00
-41	Max	1	SLU	7051.77	1	SLU	657.85	1	SLU	128535.00	1	SLU	64491.40	1	SLU	10929.70	1	SLU	161962.00
-41	Min	2	SLE R	5223.53	2	SLE R	487.30	2	SLE R	95211.30	2	SLE R	47771.40	2	SLE R	8096.04	1	SLU	119972.00
-40	Max	1	SLU	7055.80	2	SLE R	-486.98	1	SLU	128741.00	1	SLU	64490.00	2	SLE R	-8061.09	1	SLU	133927.00
-40	Min	2	SLE R	5226.52	1	SLU	-657.42	2	SLE R	95363.70	2	SLE R	47770.40	2	SLE R	-10882.50	1	SLU	99205.50
-29	Max	1	SLU	7266.56	2	SLE R	-594.46	1	SLU	81184.60	1	SLU	60509.70	2	SLE R	-7684.04	1	SLU	16418.10
-29	Min	2	SLE R	5382.63	1	SLU	-802.52	2	SLE R	60136.70	2	SLE R	44822.00	2	SLE R	-10373.50	1	SLU	12161.50
-28	Max	1	SLU	7265.62	1	SLU	800.64	1	SLU	80635.20	1	SLU	60527.60	1	SLU	10374.60	1	SLU	21465.50
-28	Min	2	SLE R	5381.94	2	SLE R	593.07	2	SLE R	59729.80	2	SLE R	44835.20	2	SLE R	7684.90	1	SLU	15900.40
-23	Max	1	SLU	7354.68	1	SLU	387.35	1	SLU	70710.80	1	SLU	62440.60	1	SLU	2004.95	1	SLU	161850.00
-23	Min	2	SLE R	5447.91	2	SLE R	286.93	2	SLE R	52378.40	2	SLE R	46252.30	2	SLE R	1485.15	1	SLU	119889.00
-22	Max	1	SLU	7356.74	2	SLE R	-284.42	1	SLU	70857.90	1	SLU	62478.10	2	SLE R	-1427.50	1	SLU	156344.00
-22	Min	2	SLE R	5449.44	1	SLU	-383.97	2	SLE R	52487.40	2	SLE R	46280.10	2	SLE R	-1927.12	1	SLU	115810.00
-17	Max	1	SLU	7463.04	1	SLU	0.38	1	SLU	49182.60	1	SLU	59871.20	1	SLU	47.77	1	SLU	164169.00
-17	Min	2	SLE R	5528.18	2	SLE R	0.28	2	SLE R	36431.60	2	SLE R	44349.10	2	SLE R	35.38	1	SLU	121607.00
-16	Max	1	SLU	7464.38	1	SLU	623.03	1	SLU	46634.90	1	SLU	59187.90	1	SLU	4732.68	1	SLU	21302.30
-16	Min	2	SLE R	5529.17	2	SLE R	461.50	2	SLE R	34544.40	2	SLE R	43842.90	2	SLE R	3505.69	1	SLU	15779.50
-15	Max	1	SLU	7464.87	2	SLE R	-460.33	1	SLU	46827.10	1	SLU	59215.90	2	SLE R	-3453.80	1	SLU	22191.80
-15	Min	2	SLE R	5529.53	1	SLU	-621.44	2	SLE R	34686.80	2	SLE R	43863.60	2	SLE R	-4662.64	1	SLU	16438.40
-8	Max	1	SLU	7608.59	1	SLU	392.10	1	SLU	22207.30	1	SLU	56863.60	1	SLU	1420.21	1	SLU	21950.50
-8	Min	2	SLE R	5636.00	2	SLE R	290.44	2	SLE R	16449.90	2	SLE R	42121.10	2	SLE R	1052.01	1	SLU	16259.60
-7	Max	1	SLU	7611.12	2	SLE R	-290.38	1	SLU	22330.90	1	SLU	56884.80	2	SLE R	-987.42	1	SLU	19026.10

-7	Min	2	SLE R	5637.87	1	SLU	-392.01	2	SLE R	16541.40	2	SLE R	42136.90	2	SLE R	-1333.02	1	SLU	14093.40
-4	Max	1	SLU	7683.84	1	SLU	135.90	1	SLU	9426.53	1	SLU	55210.30	1	SLU	270.25	1	SLU	20776.40
-4	Min	2	SLE R	5691.73	2	SLE R	100.67	2	SLE R	6982.62	2	SLE R	40896.50	2	SLE R	200.19	1	SLU	15389.90
-3	Max	1	SLU	7682.76	2	SLE R	-100.45	1	SLU	9469.03	1	SLU	55220.30	2	SLE R	-125.55	1	SLU	22109.60
-3	Min	2	SLE R	5690.93	1	SLU	-135.61	2	SLE R	7014.10	2	SLE R	40903.90	2	SLE R	-169.49	1	SLU	16377.50

Sollecitazioni elementi bidimensionali

Simbologia

σ_{xx} = Tensione normale sulle facce perp. all'asse X
σ_{zz} = Tensione normale sulle facce perp. all'asse Z
τ_{xy} = Tensione in dir. Y sulle facce perp. all'asse X
τ_{xz} = Tensione in dir. Z sulle facce perp. all'asse X
τ_{zy} = Tensione in dir. Y sulle facce perp. all'asse Z
Bid. = Numero del muro/elemento bidimensionale
CC = Numero della combinazione delle condizioni di carico elementari
Mxx = Momento che provoca variazione di tensione sulle facce perp. all'asse X
Mxz = Momento che provoca variazione di tensione tangenziale sulle facce perp. all'asse X
Mzz = Momento che provoca variazione di tensione sulle facce perp. all'asse Z
Nodo = Numero del nodo
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente

Bid. 2

	CC	TCC	Nodo	Min.	CC	TCC	Nodo	Max		CC	TCC	Nodo	Min.	CC	TCC	Nodo	Max
σ_{xx} <daN/mq>	1	SLU	-109	-114779	1	SLU	-75	101090	**σ_{zz} <daN/mq>**	1	SLU	-75	-118674	1	SLU	-101	116315
τ_{xz} <daN/mq>	1	SLU	-76	-110710	1	SLU	-110	107438	**Mxx <daNm/m>**	1	SLU	-88	-9149480	1	SLU	-100	11141500
Mzz <daNm/m>	1	SLU	-66	-2219210	1	SLU	-75	4845330	**Mxz <daNm/m>**	1	SLU	-88	-5840780	1	SLU	-88	4055160
τ_{zy} <daN/mq>	1	SLU	-98	-380642	1	SLU	-111	292400	**τ_{xy} <daN/mq>**	1	SLU	-88	-282519	1	SLU	-88	596757

Criteri di progetto utilizzati

Sezioni generiche

Generali	
Stampe	
Tipo di relazione	Estesa

Specifici	3
Materiali	
-Considera come elemento esistente	No
-Calcestruzzo	
-Livello di conoscenza	LC2
-Fattore di confidenza	1.20
-Tipo di calcestruzzo	C40/50
-Rck calcestruzzo	500.00
-Modulo elastico <daN/cmq>	355471.00
-Resistenza caratteristica cilindrica (Fck)	415.00
-Resistenza caratteristica a trazione (Fctk)	25.17
-Resistenza media (Fcm) <daN/cmq>	495.00
-Resistenza media a trazione (Fctm) <daN/cmq>	35.96
-σ amm. calcestruzzo <daN/cmq>	147.50
-τ_{c0} <daN/cmq>	8.70
-τ_{c1} <daN/cmq>	24.00
-Riduci Fcd per tutte le verifiche secondo il D.M. 18	Si
-γ_C per stati limite ultimi	
-Automatico	x
-Pari a	
-Acciaio	
-Livello di conoscenza	LC2
-Fattore di confidenza	1.20
-Tipo di acciaio	B450C
-Modulo elastico <daN/cmq>	2060000.00
-Tensione caratteristica di snervamento (Fyk) <daN/cmq>	4500.00
-Tensione media di snervamento (Fym) <daN/cmq>	4500.00
-Sigma amm. acciaio <daN/cmq>	2600.00
-Sigma amm. reti e tralicci <daN/cmq>	2600.00
-Allungamento per verifiche di duttilità (Agt) <%>	4.00
-γ_S per stati limite ultimi	
-Automatico	x
-Pari a	

-Coeff. di omogeneizzazione	15.00
Parametri per analisi pushover	
Numero fibre	200.00
Fattore di confinamento nucleo interno	1.00
Fattore di incrudimento acciaio <%>	0.10
Posizione barre e normativa	
Copriferro reale al bordo staffa <cm>	2.50
Diametro staffa teorica <mm>	8.00
Distanza fra ferri su più strati <cm>	1.00
Verifica con barre in posizione teorica	Si
-Copriferro <cm>	3.00
Normativa di riferimento	
-Relativa alle travi	
-Relativa ai pilastri	
-Relativa solo al controllo sulle tensioni	x
Elemento dissipativo	No
Verifiche secondo Circ. 65 del 10/04/97	No
Verifiche e sollecitazioni	
Passo di verifica <m>	0.50
Integrare lo scorrimento lungo il tratto	Si
-Lunghezza del tratto <m>	1.00
Verifiche a pressoflessione	Si
Verifiche a flessione/pressoflessione retta	No
-Considera My	
-Considera Mz	
-Considera My e Mz	
Verifiche di stabilità in direzione Z locale	No
-Coeff. Ωb	
Integrare lo scorrimento lungo il tratto	No
-Coeff. β	
Tipo verifica di stabilità	
-Per N*Ω-M e per N-c*M (standard)	Si
-Per N*Ω-c*M (doppia)	No
-Per N*Ω (sforzo normale e momento nullo)	No
-Per c*M (momento e sforzo normale nullo)	No
Verifiche a taglio	
Modalità di calcolo Vrdu	
-Considera Vrdu minimo	
-Considera Vrdu calcolato in corrispondenza di bw minimo	
-Considera Vrdu in corrispondenza di bw medio	x
-Considera Vrdu in corrispondenza di bw massimo	
-Considera sempre Af Staffe non proiettata in direzione del taglio	Si
-Verifica a taglio con traliccio ad inclinazione variabile	Si
-Limita ctg θ a	2.50
Dati per progettazione agli stati limite	
Condizioni ambientali	
-Ordinarie	x
-Aggressive	
-Molto aggressive	
Usa dominio N-M per flessioni rette	No
-Ricerca della sicurezza con sforzo normale costante	
-Ricerca della sicurezza con eccentricità costante	
Controllo rapporto X/D	No
Classificazione barre tese/compresse	
-Solo le barre con deformazione percentuale rispetto	
alla barra più tesa/compressa non inferiore a <%>	30.00
-In funzione della deformazione	
Dati per verifiche di resistenza al fuoco	
-Tempo di verifica (REI) <minuti>	120.00
Dimensione MESH <cm>	2.00
-Passo di calcolo <secondi>	10.00
-Temperatura ambiente <C°>	20.00
-Coeff. di convezione a temperatura ambiente <W/mq K>	9.00
-Tipo di aggregati	SILICEI
-Massa volumica iniziale <kg/mc>	2300.00
-Umidità iniziale <%>	3.00
-Fattore di interpolazione conducibilità	0.50

Plinti/Pali

Generali	

Parametri di progetto	
Progettazione e verifica dell'armatura con sollecitazioni più gravose	Si
Parametri di disegno	
Scala disegno plinti	25.00
Disegno ancoraggi non necessari	Si
Copriferro per calcolo lunghezze ferri plinto <cm>	3.00
Copriferro per calcolo lunghezze ferri bicchiere <cm>	2.00
Calcolo lunghezza ferri semplificato	Si
Diametro per calcolo lunghezze ferri plinto <mm>	10.00
Diametro per calcolo lunghezze ferri bicchiere <mm>	10.00
Stampe	
Tipo di relazione	Estesa

Specifici	3
Materiali	
-Considera come elemento esistente	No
-Calcestruzzo	
-Livello di conoscenza	LC2
-Fattore di confidenza	1.20
-Tipo di calcestruzzo	C30/37
-Rck calcestruzzo	370.00
-Modulo elastico <daN/cmq>	330194.00
-Resistenza caratteristica cilindrica (Fck)	307.10
-Resistenza caratteristica a trazione (Fctk)	20.59
-Resistenza media (Fcm) <daN/cmq>	387.10
-Resistenza media a trazione (Fctm) <daN/cmq>	29.42
-σ amm. calcestruzzo <daN/cmq>	115.00
-τ_{c0} <daN/cmq>	6.90
-τ_{c1} <daN/cmq>	20.30
-Riduci Fcd per tutte le verifiche secondo il D.M. 18	Si
-γ_C per stati limite ultimi	
-Automatico	x
-Pari a	
-Acciaio	
-Livello di conoscenza	LC2
-Fattore di confidenza	1.20
-Tipo di acciaio	B450C
-Modulo elastico <daN/cmq>	2060000.00
-Tensione caratteristica di snervamento (Fyk) <daN/cmq>	4500.00
-Tensione media di snervamento (Fym) <daN/cmq>	4500.00
-Sigma amm. acciaio <daN/cmq>	2600.00
-Sigma amm. reti e tralicci <daN/cmq>	2600.00
-Allungamento per verifiche di duttilità (Agt) <%>	4.00
-γ_S per stati limite ultimi	
-Automatico	x
-Pari a	
-Coeff. di omogeneizzazione	15.00
Parametri di calcolo	
Copriferro teorico di calcolo <cm>	4.00
Angolo limite plinti snelli/tozzi <grad>	30.00
Considerare snelli plinti ambigui	Si
Peso specifico calcestruzzo plinto <daN/mc>	2500.00
Sovraccarichi agenti sul plinto <daN/mq>	0.00
Sollecitazioni dissipative amplificate	Si
Detrazione peso proprio e sovraccarichi	Si
Calcolo momenti con metodo dei trapezi	Si
Sezione verifica plinti a bicchiere	
-A filo parete	x
-In asse alla parete	
Raffittimento armatura zona centrale	No
Armatura base	
Elenco diametri utilizzabili 1 <mm>	20
Elenco diametri utilizzabili 2 <mm>	
Elenco diametri utilizzabili 3 <mm>	
Elenco diametri utilizzabili 4 <mm>	
Elenco diametri utilizzabili 5 <mm>	
Elenco diametri utilizzabili 6 <mm>	
Elenco diametri utilizzabili 7 <mm>	
Passi utilizzabili	
-Minimo <cm>	5.00
-Massimo <cm>	25.00
-Incremento <cm>	2.00

Elemento circolare	
-Diametro	2
Passo	
Tipo di distribuzione armature	
-Min. numero passi completi dei ferri	
-Min. numero ferri per barra	4
Lunghezza risvolti ferri inferiori	
-Pari a <cm>	
Come percentuale della lunghezza del piano <%>	50.00
Mostra armature superiore	SI
Diametro rappresentazione mandrini <mm>	10.00
Rappresentazione mandrini	SI
-Max distanza <cm>	30.00
Staffoni verticali di montaggio	NO
Max altezza <cm>	20.00
Lunghezza risvolto staffoni orizzontali	
-Pari a <cm>	
-Come percentuale della lunghezza del piano <%>	50.00
-Unici ferri lungo il perimetro del plinto	
Armature a punzonamento	
Elenco diametri utilizzabili 1 <mm>	20
Elenco diametri utilizzabili 2 <mm>	
Elenco diametri utilizzabili 3 <mm>	
Elenco diametri utilizzabili 4 <mm>	
Elenco diametri utilizzabili 5 <mm>	
Elenco diametri utilizzabili 6 <mm>	
Elenco diametri utilizzabili 7 <mm>	
Passo staffe	
Min. <cm>	5.00
-Max <cm>	15.00
-Incremento <cm>	2.00
Allargamento piastra pilastri in acciaio <cm>	3.00
Distanza dal bordo libero (D.M. 87/96)	
Distanza <volte d>	
Distanza come multiplo dell'altezza o spessore del plinto	0.00
Moltiplicatore per la resistenza a punzonamento (D.M. 96)	2.00
Calcestruzzo per pulizia/sottofondo	
Valutata sulla superficie di contatto fra plinto e bicchiere	SI
-Valutata come moltiplicatore del valore della resistenza	2
Altezza del plinto	
Plinti poligonali su pali	
Base e sottocolonna in fondazione	SI
Diametro <cm>	80.00
-Passo <cm>	50.00
Base a sottocolonna in elevazione	SI
-Diametro <cm>	80.00
-Base <cm>	50.00
Distanza dalla	SI
Diametro <cm>	80.00
-Dimensione <cm>	10.00
-Numero	4.00
Materiali bicchiere	
-Come definiti nella relazione	NO
-Calcestruzzo	
-Livello di conoscenza	LC2
Resistenza	1.00
Tipo di calcestruzzo	Cls/30
-Rck	30.00
-Modulo elastico <daN/cmq>	314811.00
-Resistenza caratteristica cilindrica (fck)	249.30
-Resistenza caratteristica a trazione (fctk)	19.86
Resistenza media (fcm) <daN/cmq>	400.00
-Resistenza a trazione (fctm) <daN/cmq>	28.36
-Peso specifico <daN/mc>	2410.00
-tc0 <daN/cmq>	8.70
-tc1 <daN/cmq>	19.70
Riduci Rck per SLDE e per l'SLE secondo il D.M. 14	NO
Vc per flessione e taglio	
-Automatici	SI
Per x	
Per y	
-Fattore di riduzione	0.5
-Rapporto modulare	1.20
-Tipo di acciaio	B450C

-Modulo elastico <daN/cmq>	2060000.00
-Tensione caratteristica di snervamento (fyk) <daN/cmq>	4200.00
-Tensione <ed'A> a snervamento (fyd) <daN/cmq>	3652.17
-Sigma amm. acciaio <daN/cmq>	3600.00
-Sigma amm. cls in fase <daN/cmq>	2000.00
-Allungamento per verifiche di duttilità (Agt) <%>	4.00
-γs per stati limite ultimi	
-Azioni fisse	1
-Rara	
-Coeff. di omogeneizzazione	15.00
Armatura bicchiere	
Copriferro teorico <cm>	3.00
Bicchiere con pareti organizzate	No
Rid. res. acc. a taglio per ripresa getto <daN/cmq>	600.00
Resistenza teorica a taglio e dell'acc. a taglio per ripresa <daN/cmq>	7.07
Diametro nominale staffe e cerchi	16.00
Elenco diametri utilizzabili 1 <mm>	10
Elenco diametri utilizzabili 2 <mm>	12
Elenco diametri utilizzabili 3 <mm>	16
Elenco diametri utilizzabili 4 <mm>	18
Elenco diametri utilizzabili 5 <mm>	
Elenco diametri utilizzabili 6 <mm>	
Elenco diametri utilizzabili 7 <mm>	
Passi utilizzabili	
Min <cm>	5.00
Max <cm>	15.00
-Incremento <cm>	2.00
Tipo di armatura adottata	
-Minimizza il peso complessivo dei ferri	
-Minimizza il numero dei ferri	Sì
Ferri verticali aggiuntivi nel bicchiere	8
Diametro <mm>	16.00
Ferri verticali di ripresa nel bicchiere	8
-Mensolone <cm>	10.00
Dati per progettazione agli stati limite	
Combinazioni	
-Ordinarie	
-Aggressive	Sì
Pali aggressivi	
Materiali palo	
Classe calcestruzzo esistente	R
Calcestruzzo	
-Tipo calcestruzzo	C
-Rck calcestruzzo	3
-Coeff. sicurezza (gamma c)	1.5
-Tipo di calcestruzzo	C30/37
-Rck calcestruzzo	370.00
Modulo elastico <daN/cmq>	3307
Resistenza caratteristica a trazione (fctk)	20.7
-Resistenza media a trazione (fctm)	2
-Resistenza a flessione (ffm) <daN/cmq>	30.7
-resistenza media a trazione (fctm) <daN/cmq>	29.42
-σ amm. calcestruzzo <daN/cmq>	111.00
rck <daN/cmq>	0.80
rck <daN/cmq>	296.00
-Rinuncia Tensioni ammissibili secondo il D.M. 14	No
-γs per stati limite ultimi	
Azioni	1
-Rara	
-Acciaio	
-Livello di conoscenza	LC2
-Fattore di confidenza	1.00
Tipo di acciaio	Tondo
-Modulo elastico <daN/cmq>	2100000.00
-Tensione caratteristica di snervamento (fyk) <daN/cmq>	4200.00
-Tensione media di snervamento (fym) <daN/cmq>	4300.00
-Sigma amm. acciaio <daN/cmq>	2800.00
-Sigma amm. cls in fase <daN/cmq>	2000.00
-Allungamento per verifiche di duttilità (Agt) <%>	4.00
-γs per stati limite ultimi	
Azioni	1
Rara	
-Coeff. di omogeneizzazione	15.00
Armatura a pressoflessione pali	

Considera momenti da interazione cinematica	No
Elenco diametri ferri longitudinali 1 <mm>	20
Elenco diametri ferri longitudinali 2 <mm>	
Elenco diametri ferri longitudinali 3 <mm>	
Elenco diametri ferri longitudinali 4 <mm>	
Elenco diametri ferri longitudinali 5 <mm>	
Elenco diametri ferri longitudinali 6 <mm>	
Elenco diametri ferri longitudinali 7 <mm>	
Copriferro reale al bordo staffa <cm>	4.00
Diametro staffa teorica <mm>	12.00
Max distanza fra i ferri <cm>	25.00
Min. interferro ammissibile <cm>	5.00
Min. numero ferri	25.00
Alleggerimento ferri longitudinali	No
-Alla quota indicata <cm>	
-Come percentuale della lunghezza del palo	0.00
-Min. ferri rimanenti dopo alleggerimento	x
-Pari a	0.00
-Percentuale dell'armatura di testa del palo	
Armatura a taglio pali	
Elenco diametri staffe 1 <mm>	0.00
Elenco diametri staffe 2 <mm>	x
Elenco diametri staffe 3 <mm>	50.00
Elenco diametri staffe 4 <mm>	
Elenco diametri staffe 5 <mm>	12
Elenco diametri staffe 6 <mm>	
Elenco diametri staffe 7 <mm>	
Passi staffe	
-Minimo <cm>	
-Massimo <cm>	
-Incremento <cm>	
Tipo di minimizzazione staffatura	
-Minimizza il numero delle staffe	5.00
-Minimizza il peso delle staffe	20.00
Staffatura a spirale	5.00
Verifiche a taglio per sezioni circolari	
-Usa formulazione sezioni generiche	
-Considera rettangolo inscritto con B/H pari a	x
Verifiche a taglio per sezioni generiche	Si
-Considera Vrdu minimo	
-Considera Vrdu calcolato in corrispondenza di bw minimo	
-Considera Vrdu in corrispondenza di bw medio	1.00
-Considera Vrdu in corrispondenza di bw massimo	
-Considera sempre Af Staffe non proiettata in direzione del taglio	
Classificazione barre tese/compresse	
-Solo le barre con deformazione percentuale rispetto	x
alla barra più tesa/compressa non inferiore a <%>	
-In funzione della deformazione	Si
Capacità portante	
Efficienza	
-Pari a	
-Automatica	x

Solette/Platee

Generali	
Parametri di progetto	
Progetto e verifica con metodo d'integrazione	No
-Massima dimensione della linea d'integrazione	1.00
Calcolo armature con metodo di Wood	No
Accoppia pilastri per calcolo punzonamento	Si
-Massima distanza come un moltiplicatore dello spessore	1.50
Armatura a taglio	
Controllo resistenza a taglio allo S.L.U. DM 96	No
Verifica con taglio totale	No
Progetta a taglio con traliccio ad inclinazione variabile	Si
-In Classe A limita ctg θ a	2.50
-In Classe B limita ctg θ a	2.50
Parametri di disegno	
Disposizione disegno	2A
Particolari nel disegno principale	
-Eliminare le quotature	No

-Eliminare le campiture	No
-Eliminare la numerazione dei pilastri	No
-Eliminare la numerazione delle travi e dei muri	No
Particolari nei disegni secondari	
-Eliminare le quotature	Si
-Eliminare le campiture	Si
-Eliminare la numerazione dei pilastri	Si
-Eliminare la numerazione delle travi e dei muri	Si
Disegno armatura diffusa	No
Posizione particolari punzonamento	In automatico
Copriferro per calcolo lunghezza ferri <cm>	3.50
Risvoltare al bordo i ferri	
-Inferiori	Si
-Superiori	Si
Lunghezza risvolti ferri al bordo	Pari all'altezza meno due volte il copriferro
Disegno particolare ferri al bordo	Si
Scala disegno particolare ferri al bordo	20.00
Calcolo lunghezza ferri semplificato	No
Stampe	
Tipo di relazione	Estesa

Specifici	**3**
Materiali	
-Considera come elemento esistente	No
-Calcestruzzo	
-Livello di conoscenza	LC2
-Fattore di confidenza	1.20
-Tipo di calcestruzzo	C40/50
-Rck calcestruzzo	500.00
-Modulo elastico <daN/cmq>	355471.00
-Resistenza caratteristica cilindrica (Fck)	415.00
-Resistenza caratteristica a trazione (Fctk)	25.17
-Resistenza media (Fcm) <daN/cmq>	495.00
-Resistenza media a trazione (Fctm) <daN/cmq>	35.96
-σ amm. calcestruzzo <daN/cmq>	147.50
-τc0 <daN/cmq>	8.70
-τc1 <daN/cmq>	24.00
-Riduci Fcd per tutte le verifiche secondo il D.M. 18	Si
-γ_c per stati limite ultimi	
-Automatico	x
-Pari a	
-Acciaio	
-Livello di conoscenza	LC2
-Fattore di confidenza	1.20
-Tipo di acciaio	B450C
-Modulo elastico <daN/cmq>	2060000.00
-Tensione caratteristica di snervamento (Fyk) <daN/cmq>	4500.00
-Tensione media di snervamento (Fym) <daN/cmq>	4500.00
-Sigma amm. acciaio <daN/cmq>	2600.00
-Sigma amm. reti e tralicci <daN/cmq>	2600.00
-Allungamento per verifiche di duttilità (Agt) <%>	4.00
-γ_s per stati limite ultimi	
-Automatico	x
-Pari a	
-Coeff. di omogeneizzazione	15.00
Parametri di calcolo	
Parametri di progetto secondo il D.M. 18	
-Elemento dissipativo	No
-Sollecitazioni dissipative amplificate per elementi di fondazione	Si
Angolo d'armatura <grad>	0.00
Copriferro teorico superiore <cm>	3.00
Copriferro teorico inferiore <cm>	3.00
Tipo di progetto in doppia armatura	
-Tensione pari ai valori amm.	
-Tensione pari ai valori amm. con AfComp/AfTesa minore o pari a	1.00
-Tensione pari ai valori amm. con AfComp/AfTesa pari a	
Min. percentuale di regolamento	
-Platee di fondazione su suolo elastico	No
-Solette di elevazione	Si
Controlla min. armatura di ripartizione	No
Armatura a flessione	
Elenco diametri utilizzabili 1 <mm>	10
Elenco diametri utilizzabili 2 <mm>	12

Elenco diametri utilizzabili 3 <mm>	14
Elenco diametri utilizzabili 4 <mm>	16
Tipo di diametri da evitare 1 <mm>	
Tipo di diametri da evitare 2 <mm>	
Tipo di diametri da evitare 3 <mm>	
Passo staffe	
-Minimo <cm>	10.00
-Massimo <cm>	30.00
Tolleranza <cm>	5.00
Dati per verifica e rottura armature	No
-Sempre	
-Nelle zone critiche	
-Nella stessa posizione	
Uniformizzazione diametri armature	Si
Sempre	
Nelle stesse direzioni	
-Nelle stesse posizioni	
Tipo di ottimizzazione armature a flessione	
-Minimizza il numero dei ferri	
-Minimizza il peso complessivo dei ferri	X
Verifiche a taglio	
Passo per verifiche a taglio in fase di progetto	No
Passo per verifiche a taglio nelle zone critiche	No
Ancoraggi	
Fattore di riduzione per ancoraggi ferri	1.00
Lunghezza ancoraggi standard	
-Calcolata come previsto dal D.M.	X
-Imposta come multiplo del diametro	
Lunghezza ancoraggi ferri punzonamento	
Calcolata come previsto dal D.M.	X
Imposta come multiplo del diametro	
Armatura a punzonamento	
Fattore di riduzione resistenza calcestruzzo	0.60
Verifica a punzonamento	No
Lunghezza minima tratto dritto <cm>	5.00
Distanza dal bordo libero (D.M. 96/08)	
-Distanza come un moltiplicatore dello spessore	1.00
Distanza fissata <cm>	
Tipo di Armatura a punzonamento	
-Solo a barre piegate	
-Sempre disposte radialmente	X
-Controlla prescrizioni ACI	Si
Moltiplicatore altezza utile per valutare perimetro efficace (D.M. 14)	2.00
Tolleranza di posizione staffe	
Distanza come moltiplicatore spessore	0.10
-Distanza fissata <cm>	
Tipo di diametri da evitare 1 <mm>	No
Elenco diametri utilizzabili 2 <mm>	14
Elenco diametri utilizzabili 3 <mm>	16
Tipo di diametri da evitare 2 <mm>	18
Tipo di diametri da evitare 3 <mm>	20
Tipo di diametri da evitare 4 <mm>	
Tipo di diametri da evitare 5 <mm>	
Passi utilizzabili	
-Minimo <cm>	10.00
Massimo <cm>	30.00
Tolleranza <cm>	2.00
Tipo di ottimizzazione armature a punzonamento	
-Minimizza il numero dei ferri	X
-Minimizza il peso complessivo dei ferri	
Dati per progettazione agli stati limite	
Condizioni ambientali	
Ordinarie	X
Aggressive	
-Molto aggressive	
Coefficiente di omogeneizzazione	15
Classificazione barre tese/compresse	
-Solo le barre con deformazione percentuale rispetto	
alla barra più tesa/compressa non superiore al <%>	80.00
Tipologia della sezione	

Verifiche e armature solette/platee

Simbologia

Δ_{sm} = Distanza media tra le fessure
Φ_{eq} = Diametro equivalente delle barre
ε_{sm} = Deformazione unitaria media dell'armatura (*1000)
σ_c = Tensione nel calcestruzzo
σ_f = Tensione nel ferro
σ_s = Tensione nell'acciaio nella sezione fessurata
$A_{c\ eff}$ = Area di calcestruzzo efficace
A_s = Area complessiva dei ferri nell'area di calcestruzzo efficace
AfE I = Area di ferro effettiva totale presente nel punto di verifica, inferiore
AfE S = Area di ferro effettiva totale presente nel punto di verifica, superiore
AfE St. = Area di ferro effettiva della staffatura
CC = Numero della combinazione delle condizioni di carico elementari
Cf inf = Copriferro inferiore
Cf sup = Copriferro superiore
Cls = Tipo di calcestruzzo
DV = Direzione di verifica
XX = Verifica per momento Mxx
YY = Verifica per momento Myy
Fcd = Resistenza di calcolo a compressione del calcestruzzo
Fck = Resistenza caratteristica cilindrica a compressione del calcestruzzo
Fctd = Resistenza di calcolo a trazione del calcestruzzo
Fctk = Resistenza caratteristica a trazione del calcestruzzo
Fyd = Resistenza di calcolo dell'acciaio
Fyk = Tensione caratteristica di snervamento dell'acciaio
K_2 = Coefficiente per distribuzione deformazioni
MRdy = Momento resistente allo stato limite ultimo intorno all'asse Y
Mom = Momento flettente
My = Momento flettente intorno all'asse Y
Nodo = Numero del nodo
Sic. = Sicurezza
Spess. = Spessore
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
Tp = Tipo di acciaio
VRcd = Taglio ultimo lato calcestruzzo
VRsd = Taglio ultimo lato armatura
Vrdu = Taglio ultimo resistente
Vsdu = Taglio agente nella direzione del momento ultimo
Wk = Ampiezza caratteristica delle fessure
X = Coordinata X del nodo
Y = Coordinata Y del nodo
c = Ricoprimento dell'armatura
ctgθ = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
s = Distanza massima tra le barre

Armatura soletta a quota 0.00

Caratteristiche delle sezioni e dei materiali utilizzati

Spess. <cm>	Cf sup <cm>	Cf inf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
350.00	3.00	3.00	C40/50	415.00	25.17	235.17	16.78	B450C	4500.00	3913.04
260.00	3.00	3.00	C40/50	415.00	25.17	235.17	16.78	B450C	4500.00	3913.04
150.00	3.00	3.00	C40/50	415.00	25.17	235.17	16.78	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	My <daNm>	MRdy <daNm>	Sic.
-125	14.11	14.50	XX	1	SLU	7.54	13.40	718064.00	134210.00	0.187
-125	14.11	14.50	XX	1	SLU	7.54	13.40	718064.00	134210.00	0.187
-18	10.39	3.84	XX	1	SLU	7.54	13.40	-2996.51	-75874.20	25.321
-151	12.61	19.16	XX	1	SLU	5.13	13.40	253181.00	76511.40	0.302
-141	16.57	17.35	XX	1	SLU	5.13	13.40	243355.00	76511.40	0.314
-17	11.50	3.06	XX	1	SLU	5.13	13.40	-8418.92	-29821.60	3.542
-99	9.97	12.35	XX	1	SLU	13.40	13.40	1214140.00	181420.00	0.149
-109	12.12	12.77	XX	1	SLU	13.40	13.40	1024710.00	181420.00	0.177
-66	10.55	10.44	XX	1	SLU	13.40	13.40	-327855.00	-181420.00	0.553
-132	10.94	15.43	YY	1	SLU	13.40	13.40	1222170.00	134214.00	0.110
-132	10.94	15.43	YY	1	SLU	13.40	13.40	1222170.00	134214.00	0.110
-37	12.06	7.55	YY	1	SLU	13.40	13.40	-520744.00	-134214.00	0.258
-19	12.61	3.84	YY	1	SLU	13.40	13.40	-134209.00	-76518.00	0.570
-150	10.39	19.16	YY	1	SLU	13.40	13.40	433701.00	76518.00	0.176
-150	10.39	19.16	YY	1	SLU	13.40	13.40	433701.00	76518.00	0.176
-69	11.91	10.61	YY	1	SLU	13.40	13.40	-4202760.00	-181420.00	0.043
-88	11.50	11.50	YY	1	SLU	13.40	13.40	511975.00	181420.00	0.354
-100	11.64	12.46	YY	1	SLU	13.40	13.40	6064350.00	181420.00	0.030

Stato limite ultimo - Verifiche a taglio

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	AfE St. <cmq/m>	Vsdu <daN>	ctgθ	VRcd <daN>	VRsd <daN>	Vrdu <daN>	Sic.
-125	14.11	14.50	XX	1	SLU	7.54	13.40		210652.00				83813.30	0.398
-141	16.57	17.35	XX	1	SLU	5.13	13.40		98826.20				53081.80	0.537
-109	12.12	12.77	XX	1	SLU	13.40	13.40		578931.00				108042.00	0.187
-132	10.94	15.43	YY	1	SLU	13.40	13.40		257247.00				83813.30	0.326
-150	10.39	19.16	YY	1	SLU	13.40	13.40		134370.00				53081.80	0.395
-88	11.50	11.50	YY	1	SLU	13.40	13.40		1456390.00				108042.00	0.074

Stato limite d'esercizio - Verifiche tensionali

Nodo	X <m>	Y <m>	DV	CC	TCC	AfE S <cmq>	AfE I <cmq>	Mom <daNm>	σ_c <daN/cmq>	σ_f <daN/cmq>
-125	14.11	14.50	XX	2	SLE R	7.54	13.40	531899.00	137.25	16021.10
-125	14.11	14.50	XX	4	SLE Q	7.54	13.40	531899.00	137.25	16021.10
-18	10.39	3.84	XX	2	SLE R	7.54	13.40	-2219.64	0.71	117.55
-18	10.39	3.84	XX	4	SLE Q	7.54	13.40	-2219.64	0.71	117.55
-151	12.61	19.16	XX	2	SLE R	5.13	13.40	187541.00	115.93	9995.00
-151	12.61	19.16	XX	4	SLE Q	5.13	13.40	187541.00	115.93	9995.00
-17	11.50	3.06	XX	2	SLE R	5.13	13.40	-6236.24	5.46	850.19
-17	11.50	3.06	XX	4	SLE Q	5.13	13.40	-6236.24	5.46	850.19
-99	9.97	12.35	XX	2	SLE R	13.40	13.40	899367.00	143.00	19935.30
-99	9.97	12.35	XX	4	SLE Q	13.40	13.40	899367.00	143.00	19935.30
-66	10.55	10.44	XX	2	SLE R	13.40	13.40	-242856.00	38.61	5383.11
-66	10.55	10.44	XX	4	SLE Q	13.40	13.40	-242856.00	38.61	5383.11
-132	10.94	15.43	YY	2	SLE R	13.40	13.40	905313.00	226.82	27210.90
-132	10.94	15.43	YY	4	SLE Q	13.40	13.40	905313.00	226.82	27210.90
-37	12.06	7.55	YY	2	SLE R	13.40	13.40	-385736.00	96.64	11594.00
-37	12.06	7.55	YY	4	SLE Q	13.40	13.40	-385736.00	96.64	11594.00
-19	12.61	3.84	YY	2	SLE R	13.40	13.40	-99414.10	58.17	5274.83
-19	12.61	3.84	YY	4	SLE Q	13.40	13.40	-99414.10	58.17	5274.83
-150	10.39	19.16	YY	2	SLE R	13.40	13.40	321260.00	187.99	17045.80
-150	10.39	19.16	YY	4	SLE Q	13.40	13.40	321260.00	187.99	17045.80
-69	11.91	10.61	YY	2	SLE R	13.40	13.40	-3113150.00	494.99	69005.80
-69	11.91	10.61	YY	4	SLE Q	13.40	13.40	-3113150.00	494.99	69005.80
-100	11.64	12.46	YY	2	SLE R	13.40	13.40	4492110.00	714.25	99571.70
-100	11.64	12.46	YY	4	SLE Q	13.40	13.40	4492110.00	714.25	99571.70

Stato limite d'esercizio - Verifiche a fessurazione

Nodo	X <m>	Y <m>	DV	CC	TCC	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
-125	14.11	14.50	XX	4	SLE Q	22.00	150.00	0.50	16.00	1730.52	15.41	750.00	16021.10	7.40	21.76
-125	14.11	14.50	XX	3	SLE F	22.00	150.00	0.50	16.00	1730.52	15.41	750.00	16021.10	7.21	21.20
-18	10.39	3.84	XX	4	SLE Q	24.00	150.00	0.50	12.00	1789.35	8.67	750.00	117.55	0.03	0.10
-18	10.39	3.84	XX	3	SLE F	24.00	150.00	0.50	12.00	1789.35	8.67	750.00	117.55	0.03	0.10
-151	12.61	19.16	XX	4	SLE Q	22.00	150.00	0.50	16.00	961.61	15.41	750.00	9995.00	4.47	7.31
-151	12.61	19.16	XX	3	SLE F	22.00	150.00	0.50	16.00	961.61	15.41	750.00	9995.00	4.28	7.00
-17	11.50	3.06	XX	4	SLE Q	23.00	300.00	0.50	14.00	1028.20	6.67	750.00	850.19	0.25	0.43
-17	11.50	3.06	XX	3	SLE F	23.00	300.00	0.50	14.00	1028.20	6.67	750.00	850.19	0.25	0.43
-99	9.97	12.35	XX	4	SLE Q	22.00	150.00	0.50	16.00	2372.18	15.41	750.00	19935.30	9.30	37.49
-99	9.97	12.35	XX	3	SLE F	22.00	150.00	0.50	16.00	2372.18	15.41	750.00	19935.30	9.11	36.73
-66	10.55	10.44	XX	4	SLE Q	22.00	150.00	0.50	16.00	2372.18	15.41	750.00	5383.11	2.23	9.00
-66	10.55	10.44	XX	3	SLE F	22.00	150.00	0.50	16.00	2372.18	15.41	750.00	5383.11	2.04	8.24
-132	10.94	15.43	YY	4	SLE Q	22.00	150.00	0.50	16.00	1735.78	15.41	750.00	27210.90	12.83	37.86
-132	10.94	15.43	YY	3	SLE F	22.00	150.00	0.50	16.00	1735.78	15.41	750.00	27210.90	12.64	37.30
-37	12.06	7.55	YY	4	SLE Q	22.00	150.00	0.50	16.00	1735.78	15.41	750.00	11594.00	5.25	15.49
-37	12.06	7.55	YY	3	SLE F	22.00	150.00	0.50	16.00	1735.78	15.41	750.00	11594.00	5.06	14.92
-19	12.61	3.84	YY	4	SLE Q	22.00	150.00	0.50	16.00	968.51	15.41	750.00	5274.83	2.18	3.59
-19	12.61	3.84	YY	3	SLE F	22.00	150.00	0.50	16.00	968.51	15.41	750.00	5274.83	1.99	3.28
-150	10.39	19.16	YY	4	SLE Q	22.00	150.00	0.50	16.00	968.51	15.41	750.00	17045.80	7.89	13.00
-150	10.39	19.16	YY	3	SLE F	22.00	150.00	0.50	16.00	968.51	15.41	750.00	17045.80	7.70	12.68
-69	11.91	10.61	YY	4	SLE Q	22.00	150.00	0.50	16.00	2372.18	15.41	750.00	69005.80	33.12	133.55
-69	11.91	10.61	YY	3	SLE F	22.00	150.00	0.50	16.00	2372.18	15.41	750.00	69005.80	32.93	132.79
-100	11.64	12.46	YY	4	SLE Q	22.00	150.00	0.50	16.00	2372.18	15.41	750.00	99571.70	47.96	193.39
-100	11.64	12.46	YY	3	SLE F	22.00	150.00	0.50	16.00	2372.18	15.41	750.00	99571.70	47.77	192.62

Verifiche e armature plinti/pali

Simbologia

Az = Azioni ed effetti sul plinto/palo
RVN = Reazioni vincolari agenti
TAG = Effetti dovuti ai tagli
ECC = Effetti dovuti all'eccentricità
PP = Effetti dovuti al peso proprio
SVR = Effetti dovuti ai sovraccarichi e al peso del terreno
TOT = Azioni totali di calcolo
CC = Numero della combinazione delle condizioni di carico elementari
Caso = Caso di verifica
Cf = Copriferro

Cls = Tipo di calcestruzzo
Fcd = Resistenza di calcolo a compressione del calcestruzzo
Fck = Resistenza caratteristica cilindrica a compressione del calcestruzzo
Fctd = Resistenza di calcolo a trazione del calcestruzzo
Fctk = Resistenza caratteristica a trazione del calcestruzzo
Fyd = Resistenza di calcolo dell'acciaio
Fyk = Tensione caratteristica di snervamento dell'acciaio
Mx = Momento intorno all'asse X
My = Momento intorno all'asse Y
Mz = Momento intorno all'asse Z
N = Sforzo normale
Palo = Numero del palo
R = Raggio
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
Tp = Tipo di acciaio
Tx = Taglio in dir. X
Ty = Taglio in dir. Y

Palo n. 1

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 1 (-40)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	128741.00	7055.80	-657.42	64490.00	-10882.50
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	128741.00	7055.80	-657.42	64490.00	-10882.50
2	2	SLE R	RVN	95363.70	5226.52	-486.98	47770.40	-8061.09
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	95363.70	5226.52	-486.98	47770.40	-8061.09
3	3	SLE F	RVN	95363.70	5226.52	-486.98	47770.40	-8061.09
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	95363.70	5226.52	-486.98	47770.40	-8061.09
4	4	SLE Q	RVN	95363.70	5226.52	-486.98	47770.40	-8061.09
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	95363.70	5226.52	-486.98	47770.40	-8061.09

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-128741.00	-7055.80	657.42	-64490.00	10882.50
2	2	SLE R	1	-95363.70	-5226.52	486.98	-47770.40	8061.09
3	3	SLE F	1	-95363.70	-5226.52	486.98	-47770.40	8061.09
4	4	SLE Q	1	-95363.70	-5226.52	486.98	-47770.40	8061.09

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-128741.00	64233.50	10839.20	-128741.00	195562.00	34234.00	2-3	170.00	3.048
2	59.52	1	SLU	-129054.00	67622.40	11411.10	-129054.00	195675.00	34254.90	2-3	170.00	2.897
3	119.05	1	SLU	-128002.00	69615.20	11747.30	-128002.00	195297.00	34184.60	2-3	170.00	2.808
4	178.57	1	SLU	-126953.00	70417.10	11882.70	-126953.00	194921.00	34114.50	2-3	170.00	2.771
5	238.09	1	SLU	-125909.00	70217.00	11848.90	-125909.00	194546.00	34044.60	2-3	170.00	2.774
6	297.62	1	SLU	-124868.00	69187.30	11675.10	-124868.00	194172.00	33975.10	2-3	170.00	2.809
7	357.14	1	SLU	-123832.00	67421.40	11377.10	-123832.00	193800.00	33905.80	2-3	170.00	2.877
8	416.67	1	SLU	-120867.00	64822.30	10938.60	-120867.00	192735.00	33707.50	2-3	170.00	2.976

9	476.19	1	SLU	-117909.00	61523.50	10381.90	-117909.00	191668.00	33508.70	2-3	170.00	3.119
10	535.71	1	SLU	-114957.00	57712.00	9738.72	-114957.00	190602.00	33309.90	2-3	170.00	3.306
11	595.24	1	SLU	-112012.00	53550.60	9036.49	-112012.00	189489.00	33209.40	2-3	170.00	3.542
12	654.76	1	SLU	-109072.00	49178.80	8298.77	-109072.00	188375.00	33111.30	2-3	170.00	3.835
13	714.29	1	SLU	-106138.00	44715.10	7545.53	-106138.00	187259.00	33016.00	2-3	170.00	4.193
14	773.81	1	SLU	-103210.00	40258.10	6793.43	-103210.00	186143.00	32919.80	2-3	170.00	4.630
15	833.33	1	SLU	-100288.00	35888.90	6056.13	-100288.00	185029.00	32823.00	2-3	170.00	5.163
16	892.86	1	SLU	-97370.60	31672.20	5344.58	-97370.60	184188.00	30689.80	2-3	170.62	5.813
17	952.38	1	SLU	-94458.70	27658.80	4667.33	-94458.70	183069.00	30601.60	2-3	170.62	6.617
18	1011.90	1	SLU	-91551.80	23886.70	4030.80	-91551.80	181949.00	30497.50	2-3	170.62	7.616
19	1071.43	1	SLU	-88649.90	20382.80	3439.53	-88649.90	180815.00	30295.60	2-3	170.62	8.869
20	1130.95	1	SLU	-85752.70	17164.70	2896.49	-85752.70	179677.00	30092.60	2-3	170.62	10.466
21	1190.48	1	SLU	-82860.10	14241.80	2403.25	-82860.10	178541.00	29890.00	2-3	170.62	12.534
22	1250.00	1	SLU	-79971.90	11616.50	1960.25	-79971.90	177404.00	29687.10	2-3	170.62	15.268
23	1309.52	1	SLU	-77088.10	9285.81	1566.95	-77088.10	175962.00	31273.80	2-3	170.00	18.978
24	1369.05	1	SLU	-74208.40	7241.96	1222.06	-74208.40	174823.00	31065.40	2-3	170.00	24.177
25	1428.57	1	SLU	-71332.60	5473.51	923.64	-71332.60	173681.00	30855.80	2-3	170.00	31.779
26	1488.10	1	SLU	-68460.70	3966.14	669.27	-2571250.00	172538.00	30646.00	2-3	170.00	37.558
27	1547.62	1	SLU	-65592.40	2703.36	456.18	-2571250.00	171396.00	30436.40	2-3	170.00	39.200
28	1607.14	1	SLU	-62727.70	1667.12	281.32	-2571250.00	170250.00	30226.00	2-3	170.00	40.991
29	1666.67	1	SLU	-59866.40	838.28	141.46	-2571250.00	169103.00	30014.90	2-3	170.00	42.950
30	1726.19	1	SLU	-57008.20	197.04	33.25	-2571250.00	167957.00	29804.10	2-3	170.00	45.103
31	1785.71	1	SLU	-54153.10	-276.72	-46.70	-2571250.00	-166953.00	-29188.50	2-3	350.00	47.481
32	1845.24	1	SLU	-51300.90	-603.20	-101.79	-2571250.00	-165832.00	-28978.00	2-3	350.00	50.121
33	1904.76	1	SLU	-48451.50	-802.48	-135.42	-2571250.00	-164710.00	-28767.60	2-3	350.00	53.069
34	1964.29	1	SLU	-45604.70	-894.40	-150.93	-2571250.00	-163589.00	-28557.50	2-3	350.00	56.381
35	2023.81	1	SLU	-42760.30	-898.47	-151.61	-2571250.00	-162467.00	-28346.70	2-3	350.00	60.132
36	2083.33	1	SLU	-39918.20	-833.83	-140.71	-2571250.00	-161343.00	-28135.20	2-3	350.00	64.413
37	2142.86	1	SLU	-37078.20	-719.28	-121.38	-2571250.00	-160179.00	-28013.60	2-3	350.00	69.347
38	2202.38	1	SLU	-34240.20	-573.27	-96.74	-2571250.00	-159006.00	-27910.70	2-3	350.00	75.094
39	2261.90	1	SLU	-31404.10	-413.96	-69.85	-2571250.00	-157827.00	-27813.80	2-3	350.00	81.876
40	2321.43	1	SLU	-28569.70	-259.27	-43.75	-2571250.00	-156649.00	-27715.80	2-3	350.00	89.999
41	2380.95	1	SLU	-25736.70	-126.95	-21.42	-2571250.00	-155471.00	-27616.50	2-3	350.00	99.906
42	2440.48	1	SLU	-22905.20	-34.67	-5.85	-2571250.00	-154523.00	-25770.60	2-3	350.62	>100
43	2500.00	1	SLU	-20074.90	0.00	0.00	-2571250.00					>100

Stato limite ultimo – Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7055.80	-657.42	0.85	11.31	7086.36	1.00	32294.70	350109.00	32294.70	4.557
2	59.52	1	SLU	4504.56	-419.71	0.85	11.31	4524.07	1.00	32294.70	350154.00	32294.70	7.138
3	119.05	1	SLU	2314.79	-215.68	0.85	11.31	2324.81	1.00	32294.70	350003.00	32294.70	13.891
4	178.57	1	SLU	459.31	-42.80	0.85	11.31	461.30	1.00	32294.70	349853.00	32294.70	70.008
5	238.09	1	SLU	-1089.57	101.52	0.85	11.31	1094.29	1.00	32294.70	349703.00	32294.70	29.512
6	297.62	1	SLU	-2359.67	219.86	0.85	11.31	2369.90	1.00	32294.70	349554.00	32294.70	13.627
7	357.14	1	SLU	-3698.87	344.64	0.85	11.31	3714.89	1.00	32294.70	349406.00	32294.70	8.693
8	416.67	1	SLU	-5059.12	471.38	0.85	11.31	5081.03	1.00	32294.70	348981.00	32294.70	6.356
9	476.19	1	SLU	-6080.34	566.53	0.85	11.31	6106.68	1.00	32294.70	348557.00	32294.70	5.288
10	535.71	1	SLU	-6805.28	634.08	0.85	11.31	6834.76	1.00	32294.70	348135.00	32294.70	4.725
11	595.24	1	SLU	-7274.26	677.78	0.85	11.31	7305.77	1.00	32294.70	347713.00	32294.70	4.420
12	654.76	1	SLU	-7524.89	701.13	0.85	11.31	7557.49	1.00	32294.70	347291.00	32294.70	4.273
13	714.29	1	SLU	-7591.89	707.37	0.85	11.31	7624.78	1.00	32294.70	346871.00	32294.70	4.236
14	773.81	1	SLU	-7506.98	699.46	0.85	11.31	7539.50	1.00	32294.70	346452.00	32294.70	4.283
15	833.33	1	SLU	-7298.84	680.07	0.85	11.31	7330.46	1.00	32294.70	346033.00	32294.70	4.406
16	892.86	1	SLU	-6993.19	651.59	0.85	11.31	7023.48	1.00	32294.70	345615.00	32294.70	4.598
17	952.38	1	SLU	-6612.82	616.15	0.85	11.31	6641.46	1.00	32294.70	345198.00	32294.70	4.863
18	1011.90	1	SLU	-6177.73	575.61	0.85	11.31	6204.49	1.00	32294.70	344782.00	32294.70	5.205
19	1071.43	1	SLU	-5705.32	531.59	0.85	11.31	5730.03	1.00	32294.70	344366.00	32294.70	5.636
20	1130.95	1	SLU	-5210.48	485.49	0.85	11.31	5233.05	1.00	32294.70	343951.00	32294.70	6.171
21	1190.48	1	SLU	-4705.87	438.47	0.85	11.31	4726.26	1.00	32294.70	343537.00	32294.70	6.833
22	1250.00	1	SLU	-4202.06	391.53	0.85	11.31	4220.26	1.00	32294.70	343123.00	32294.70	7.652
23	1309.52	1	SLU	-3707.74	345.47	0.85	11.31	3723.80	1.00	32294.70	342710.00	32294.70	8.673
24	1369.05	1	SLU	-3229.93	300.95	0.85	11.31	3243.92	1.00	32294.70	342298.00	32294.70	9.955
25	1428.57	1	SLU	-2774.17	258.48	0.85	11.31	2786.19	1.00	32294.70	341886.00	32294.70	11.591
26	1488.10	1	SLU	-2344.73	218.47	0.85	11.31	2354.88	1.00	32294.70	341474.00	32294.70	13.714
27	1547.62	1	SLU	-1944.75	181.20	0.85	11.31	1953.17	1.00	32294.70	341064.00	32294.70	16.535
28	1607.14	1	SLU	-1576.45	146.88	0.85	11.31	1583.27	1.00	32294.70	340653.00	32294.70	20.397
29	1666.67	1	SLU	-1241.27	115.66	0.85	11.31	1246.65	1.00	32294.70	340243.00	32294.70	25.905
30	1726.19	1	SLU	-940.04	87.59	0.85	11.31	944.11	1.00	32294.70	339834.00	32294.70	34.207
31	1785.71	1	SLU	-673.07	62.71	0.85	11.31	675.98	1.00	32294.70	339425.00	32294.70	47.775
32	1845.24	1	SLU	-440.30	41.03	0.85	11.31	442.21	1.00	32294.70	339016.00	32294.70	73.030
33	1904.76	1	SLU	-241.43	22.50	0.85	11.31	242.47	1.00	32294.70	338608.00	32294.70	>100
34	1964.29	1	SLU	-75.95	7.08	0.85	11.31	76.28	1.00	32294.70	338200.00	32294.70	>100
35	2023.81	1	SLU	56.74	-5.29	0.85	11.31	56.98	1.00	32294.70	337793.00	32294.70	>100
36	2083.33	1	SLU	157.25	-14.65	0.85	11.31	157.93	1.00	32294.70	337386.00	32294.70	>100
37	2142.86	1	SLU	226.18	-21.07	0.85	11.31	227.16	1.00	32294.70	336979.00	32294.70	>100
38	2202.38	1	SLU	264.07	-24.61	0.85	11.31	265.22	1.00	32294.70	336573.00	32294.70	>100

39	2261.90	1	SLU	271.38	-25.29	0.85	11.31	272.56	1.00	32294.70	336166.00	32294.70	>100
40	2321.43	1	SLU	248.44	-23.15	0.85	11.31	249.52	1.00	32294.70	335760.00	32294.70	>100
41	2380.95	1	SLU	195.49	-18.21	0.85	11.31	196.33	1.00	32294.70	335355.00	32294.70	>100
42	2440.48	1	SLU	112.65	-10.50	0.85	11.31	113.14	1.00	32294.70	334949.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-95363.70	8029.03	47580.30	40.84	37.70	43.38	646.02
45	59.52	2	SLE R	-95908.90	8452.63	50090.60	40.84	37.70	45.99	721.95
46	119.05	2	SLE R	-95319.40	8701.73	51566.80	40.84	37.70	47.60	776.28
47	178.57	2	SLE R	-94732.90	8801.97	52160.80	40.84	37.70	48.27	801.88
48	238.09	2	SLE R	-94149.40	8776.95	52012.60	40.84	37.70	48.16	802.74
49	297.62	2	SLE R	-93568.80	8648.25	51249.90	40.84	37.70	47.39	783.01
50	357.14	2	SLE R	-92991.20	8427.51	49941.80	40.84	37.70	46.05	745.20
51	416.67	2	SLE R	-90810.40	8102.63	48016.50	40.84	37.70	44.17	702.86
52	476.19	2	SLE R	-88634.50	7690.29	45573.00	40.84	37.70	41.75	643.82
53	535.71	2	SLE R	-86463.30	7213.87	42749.70	40.84	37.70	38.93	573.33
54	595.24	2	SLE R	-84296.80	6693.70	39667.10	40.84	37.70	35.84	496.17
55	654.76	2	SLE R	-82134.80	6147.24	36428.80	40.84	37.70	32.61	447.37
56	714.29	2	SLE R	-79977.20	5589.28	33122.30	34.56	43.98	29.35	404.25
57	773.81	2	SLE R	-77823.80	5032.17	29820.80	34.56	43.98	26.14	361.80
58	833.33	2	SLE R	-75674.70	4486.02	26584.30	34.56	43.98	23.09	321.16
59	892.86	2	SLE R	-73529.60	3958.95	23460.90	28.27	50.27	20.26	283.33
60	952.38	2	SLE R	-71388.50	3457.28	20488.00	28.27	50.27	17.72	249.08
61	1011.90	2	SLE R	-69251.20	2985.78	17693.80	21.99	56.55	15.49	218.88
62	1071.43	2	SLE R	-67117.60	2547.80	15098.40	21.99	56.55	13.58	192.78
63	1130.95	2	SLE R	-64987.60	2145.55	12714.60	15.71	62.83	11.96	170.53
64	1190.48	2	SLE R	-62861.10	1780.19	10549.50	0.00	78.54	10.59	151.60
65	1250.00	2	SLE R	-60737.90	1452.03	8604.82	0.00	78.54	9.41	135.15
66	1309.52	2	SLE R	-58618.00	1160.70	6878.38	0.00	78.54	8.34	120.31
67	1369.05	2	SLE R	-56501.30	905.23	5364.42	0.00	78.54	7.38	106.98
68	1428.57	2	SLE R	-54387.60	684.17	4054.45	0.00	78.54	6.53	95.10
69	1488.10	2	SLE R	-52276.80	495.76	2937.88	0.00	78.54	5.77	84.60
70	1547.62	2	SLE R	-50168.80	337.91	2002.49	0.00	78.54	5.12	75.39
71	1607.14	2	SLE R	-48063.50	208.39	1234.91	0.00	78.54	4.55	67.37
72	1666.67	2	SLE R	-45960.80	104.78	620.95	0.00	78.54	4.06	60.45
73	1726.19	2	SLE R	-43860.60	24.63	145.96	0.00	78.54	3.64	54.51
74	1785.71	2	SLE R	-41762.70	-34.59	-204.98	0.00	78.54	3.50	52.38
75	1845.24	2	SLE R	-39667.00	-75.40	-446.82	0.00	78.54	3.46	51.55
76	1904.76	2	SLE R	-37573.50	-100.31	-594.43	0.00	78.54	3.36	50.05
77	1964.29	2	SLE R	-35482.00	-111.80	-662.52	0.00	78.54	3.23	47.99
78	2023.81	2	SLE R	-33392.30	-112.31	-665.53	0.00	78.54	3.06	45.46
79	2083.33	2	SLE R	-31304.50	-104.23	-617.65	0.00	78.54	2.87	42.58
80	2142.86	2	SLE R	-29218.40	-89.91	-532.80	0.00	78.54	2.65	39.43
81	2202.38	2	SLE R	-27133.80	-71.66	-424.65	0.00	78.54	2.43	36.11
82	2261.90	2	SLE R	-25050.70	-51.74	-306.63	0.00	78.54	2.20	32.73
83	2321.43	2	SLE R	-22968.90	-32.41	-192.05	0.00	78.54	1.97	29.38
84	2380.95	2	SLE R	-20888.40	-15.87	-94.04	0.00	78.54	1.75	26.14
85	2440.48	2	SLE R	-18808.90	-4.33	-25.68	0.00	78.54	1.54	23.12
86	2500.00	2	SLE R	-16730.50	0.00	0.00	0.00	78.54	1.36	20.40
87	0.00	4	SLE Q	-95363.70	8029.03	47580.30	40.84	37.70	43.38	646.02
88	59.52	4	SLE Q	-95908.90	8452.63	50090.60	40.84	37.70	45.99	721.95
89	119.05	4	SLE Q	-95319.40	8701.73	51566.80	40.84	37.70	47.60	776.28
90	178.57	4	SLE Q	-94732.90	8801.97	52160.80	40.84	37.70	48.27	801.88
91	238.09	4	SLE Q	-94149.40	8776.95	52012.60	40.84	37.70	48.16	802.74
92	297.62	4	SLE Q	-93568.80	8648.25	51249.90	40.84	37.70	47.39	783.01
93	357.14	4	SLE Q	-92991.20	8427.51	49941.80	40.84	37.70	46.05	745.20
94	416.67	4	SLE Q	-90810.40	8102.63	48016.50	40.84	37.70	44.17	702.86
95	476.19	4	SLE Q	-88634.50	7690.29	45573.00	40.84	37.70	41.75	643.82
96	535.71	4	SLE Q	-86463.30	7213.87	42749.70	40.84	37.70	38.93	573.33
97	595.24	4	SLE Q	-84296.80	6693.70	39667.10	40.84	37.70	35.84	496.17
98	654.76	4	SLE Q	-82134.80	6147.24	36428.80	40.84	37.70	32.61	447.37
99	714.29	4	SLE Q	-79977.20	5589.28	33122.30	34.56	43.98	29.35	404.25
100	773.81	4	SLE Q	-77823.80	5032.17	29820.80	34.56	43.98	26.14	361.80
101	833.33	4	SLE Q	-75674.70	4486.02	26584.30	34.56	43.98	23.09	321.16
102	892.86	4	SLE Q	-73529.60	3958.95	23460.90	28.27	50.27	20.26	283.33
103	952.38	4	SLE Q	-71388.50	3457.28	20488.00	28.27	50.27	17.72	249.08
104	1011.90	4	SLE Q	-69251.20	2985.78	17693.80	21.99	56.55	15.49	218.88
105	1071.43	4	SLE Q	-67117.60	2547.80	15098.40	21.99	56.55	13.58	192.78
106	1130.95	4	SLE Q	-64987.60	2145.55	12714.60	15.71	62.83	11.96	170.53
107	1190.48	4	SLE Q	-62861.10	1780.19	10549.50	0.00	78.54	10.59	151.60
108	1250.00	4	SLE Q	-60737.90	1452.03	8604.82	0.00	78.54	9.41	135.15
109	1309.52	4	SLE Q	-58618.00	1160.70	6878.38	0.00	78.54	8.34	120.31
110	1369.05	4	SLE Q	-56501.30	905.23	5364.42	0.00	78.54	7.38	106.98
111	1428.57	4	SLE Q	-54387.60	684.17	4054.45	0.00	78.54	6.53	95.10
112	1488.10	4	SLE Q	-52276.80	495.76	2937.88	0.00	78.54	5.77	84.60

113	1547.62	4	SLE Q	-50168.80	337.91	2002.49	0.00	78.54	5.12	75.39
114	1607.14	4	SLE Q	-48063.50	208.39	1234.91	0.00	78.54	4.55	67.37
115	1666.67	4	SLE Q	-45960.80	104.78	620.95	0.00	78.54	4.06	60.45
116	1726.19	4	SLE Q	-43860.60	24.63	145.96	0.00	78.54	3.64	54.51
117	1785.71	4	SLE Q	-41762.70	-34.59	-204.98	0.00	78.54	3.50	52.38
118	1845.24	4	SLE Q	-39667.00	-75.40	-446.82	0.00	78.54	3.46	51.55
119	1904.76	4	SLE Q	-37573.50	-100.31	-594.43	0.00	78.54	3.36	50.05
120	1964.29	4	SLE Q	-35482.00	-111.80	-662.52	0.00	78.54	3.23	47.99
121	2023.81	4	SLE Q	-33392.30	-112.31	-665.53	0.00	78.54	3.06	45.46
122	2083.33	4	SLE Q	-31304.50	-104.23	-617.65	0.00	78.54	2.87	42.58
123	2142.86	4	SLE Q	-29218.40	-89.91	-532.80	0.00	78.54	2.65	39.43
124	2202.38	4	SLE Q	-27133.80	-71.66	-424.65	0.00	78.54	2.43	36.11
125	2261.90	4	SLE Q	-25050.70	-51.74	-306.63	0.00	78.54	2.20	32.73
126	2321.43	4	SLE Q	-22968.90	-32.41	-192.05	0.00	78.54	1.97	29.38
127	2380.95	4	SLE Q	-20888.40	-15.87	-94.04	0.00	78.54	1.75	26.14
128	2440.48	4	SLE Q	-18808.90	-4.33	-25.68	0.00	78.54	1.54	23.12
129	2500.00	4	SLE Q	-16730.50	0.00	0.00	0.00	78.54	1.36	20.40

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-95363.70	47580.30	8029.03	46.00	136.36	0.50	20.00	189.78	21.99	1075.18	646.02	0.19	0.06
88	59.52	4	SLE Q	-95908.90	50090.60	8452.63	46.00	136.36	0.50	20.00	191.69	21.99	1096.18	721.95	0.21	0.07
89	119.05	4	SLE Q	-95319.40	51566.80	8701.73	46.00	136.36	0.50	20.00	193.06	21.99	1111.21	776.28	0.23	0.07
90	178.57	4	SLE Q	-94732.90	52160.80	8801.97	46.00	136.36	0.50	20.00	193.71	21.99	1118.38	801.88	0.23	0.08
91	238.09	4	SLE Q	-94149.40	52012.60	8776.95	46.00	136.36	0.50	20.00	193.83	21.99	1119.71	802.74	0.23	0.08
92	297.62	4	SLE Q	-93568.80	51249.90	8648.25	46.00	136.36	0.50	20.00	193.52	21.99	1116.26	783.01	0.23	0.08
93	357.14	4	SLE Q	-92991.20	49941.80	8427.51	46.00	136.36	0.50	20.00	192.78	21.99	1108.18	745.20	0.22	0.07
94	416.67	4	SLE Q	-90810.40	48016.50	8102.63	46.00	136.36	0.50	20.00	192.18	21.99	1101.56	702.86	0.20	0.07
95	476.19	4	SLE Q	-88634.50	45573.00	7690.29	46.00	136.36	0.50	20.00	191.06	21.99	1089.19	643.82	0.19	0.06
96	535.71	4	SLE Q	-86463.30	42749.70	7213.87	46.00	136.36	0.50	20.00	205.62	18.85	1070.80	573.33	0.17	0.06
97	595.24	4	SLE Q	-84296.80	39667.10	6693.70	46.00	136.36	0.50	20.00	202.94	18.85	1045.63	496.17	0.14	0.05
98	654.76	4	SLE Q	-82134.80	36428.80	6147.24	46.00	136.36	0.50	20.00	199.43	18.85	1012.47	416.64	0.12	0.04
99	714.29	4	SLE Q	-79977.20	33122.30	5589.28	46.00	136.36	0.50	20.00	215.44	15.71	969.46	338.59	0.10	0.04
100	773.81	4	SLE Q	-77823.80	29820.80	5032.17	46.00	136.36	0.50	20.00	208.06	15.71	911.56	265.35	0.08	0.03
101	833.33	4	SLE Q	-75674.70	26584.30	4486.02	46.00	136.36	0.50	20.00	198.13	15.71	833.54	199.64	0.06	0.02
102	892.86	4	SLE Q	-73529.60	23460.90	3958.95	46.00	136.36	0.50	20.00	184.88	15.71	729.48	143.30	0.04	0.01
103	952.38	4	SLE Q	-71388.50	20488.00	3457.28	46.00	136.36	0.50	20.00	184.70	12.57	582.47	97.14	0.03	0.01
104	1011.90	4	SLE Q	-69251.20	17693.80	2985.78	46.00	136.36	0.50	20.00	183.07	9.42	429.18	60.98	0.02	0.01
105	1071.43	4	SLE Q	-67117.60	15098.40	2547.80	46.00	136.36	0.50	20.00	150.60	9.42	276.17	33.65	0.01	0.00
130	0.00	3	SLE F	-95363.70	47580.30	8029.03	46.00	136.36	0.50	20.00	189.78	21.99	1075.18	646.02	0.19	0.06
131	59.52	3	SLE F	-95908.90	50090.60	8452.63	46.00	136.36	0.50	20.00	191.69	21.99	1096.18	721.95	0.21	0.07
132	119.05	3	SLE F	-95319.40	51566.80	8701.73	46.00	136.36	0.50	20.00	193.06	21.99	1111.21	776.28	0.23	0.07
133	178.57	3	SLE F	-94732.90	52160.80	8801.97	46.00	136.36	0.50	20.00	193.71	21.99	1118.38	801.88	0.23	0.08
134	238.09	3	SLE F	-94149.40	52012.60	8776.95	46.00	136.36	0.50	20.00	193.83	21.99	1119.71	802.74	0.23	0.08
135	297.62	3	SLE F	-93568.80	51249.90	8648.25	46.00	136.36	0.50	20.00	193.52	21.99	1116.26	783.01	0.23	0.08
136	357.14	3	SLE F	-92991.20	49941.80	8427.51	46.00	136.36	0.50	20.00	192.78	21.99	1108.18	745.20	0.22	0.07
137	416.67	3	SLE F	-90810.40	48016.50	8102.63	46.00	136.36	0.50	20.00	192.18	21.99	1101.56	702.86	0.20	0.07
138	476.19	3	SLE F	-88634.50	45573.00	7690.29	46.00	136.36	0.50	20.00	191.06	21.99	1089.19	643.82	0.19	0.06
139	535.71	3	SLE F	-86463.30	42749.70	7213.87	46.00	136.36	0.50	20.00	205.62	18.85	1070.80	573.33	0.17	0.06
140	595.24	3	SLE F	-84296.80	39667.10	6693.70	46.00	136.36	0.50	20.00	202.94	18.85	1045.63	496.17	0.14	0.05
141	654.76	3	SLE F	-82134.80	36428.80	6147.24	46.00	136.36	0.50	20.00	199.43	18.85	1012.47	416.64	0.12	0.04
142	714.29	3	SLE F	-79977.20	33122.30	5589.28	46.00	136.36	0.50	20.00	215.44	15.71	969.46	338.59	0.10	0.04
143	773.81	3	SLE F	-77823.80	29820.80	5032.17	46.00	136.36	0.50	20.00	208.06	15.71	911.56	265.35	0.08	0.03
144	833.33	3	SLE F	-75674.70	26584.30	4486.02	46.00	136.36	0.50	20.00	198.13	15.71	833.54	199.64	0.06	0.02
145	892.86	3	SLE F	-73529.60	23460.90	3958.95	46.00	136.36	0.50	20.00	184.88	15.71	729.48	143.30	0.04	0.01
146	952.38	3	SLE F	-71388.50	20488.00	3457.28	46.00	136.36	0.50	20.00	184.70	12.57	582.47	97.14	0.03	0.01
147	1011.90	3	SLE F	-69251.20	17693.80	2985.78	46.00	136.36	0.50	20.00	183.07	9.42	429.18	60.98	0.02	0.01
148	1071.43	3	SLE F	-67117.60	15098.40	2547.80	46.00	136.36	0.50	20.00	150.60	9.42	276.17	33.65	0.01	0.00

Verifiche principali

Caso	Tipo
4	SLU N cost - min. sic.
13	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
47	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
48	C.Rare - Sf max (max traz.)
65	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
91	C.Q.Per. - Sf max (max traz.),C.Q.Per. - Wk Max
108	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 2

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>

60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 2 (-104)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	204703.00	6647.96	-722.53	55868.70	-22829.50
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	204703.00	6647.96	-722.53	55868.70	-22829.50
2	2	SLE R	RVN	151632.00	4924.41	-535.21	41384.20	-16910.80
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	151632.00	4924.41	-535.21	41384.20	-16910.80
3	3	SLE F	RVN	151632.00	4924.41	-535.21	41384.20	-16910.80
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	151632.00	4924.41	-535.21	41384.20	-16910.80
4	4	SLE Q	RVN	151632.00	4924.41	-535.21	41384.20	-16910.80
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	151632.00	4924.41	-535.21	41384.20	-16910.80

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-204703.00	-6647.96	722.53	-55868.70	22829.50
2	2	SLE R	1	-151632.00	-4924.41	535.21	-41384.20	16910.80
3	3	SLE F	1	-151632.00	-4924.41	535.21	-41384.20	16910.80
4	4	SLE Q	1	-151632.00	-4924.41	535.21	-41384.20	16910.80

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-204703.00	55644.40	22737.80	-204703.00	208278.00	86386.20	2-3	157.50	3.751
2	59.52	1	SLU	-204488.00	58655.40	23968.20	-204488.00	208211.00	86356.10	2-3	157.50	3.557
3	119.05	1	SLU	-202382.00	60445.40	24699.70	-202382.00	207548.00	86060.70	2-3	157.50	3.441
4	178.57	1	SLU	-200283.00	61193.10	25005.20	-200283.00	206887.00	85766.30	2-3	157.50	3.388
5	238.09	1	SLU	-198189.00	61063.50	24952.20	-198189.00	206228.00	85472.70	2-3	157.50	3.384
6	297.62	1	SLU	-196102.00	60207.00	24602.30	-196102.00	205568.00	85178.10	2-3	157.50	3.421
7	357.14	1	SLU	-194021.00	58704.80	23988.40	-194021.00	204909.00	84882.80	2-3	157.50	3.497
8	416.67	1	SLU	-189272.00	56471.20	23075.70	-189272.00	203402.00	84209.00	2-3	157.50	3.609
9	476.19	1	SLU	-184534.00	53622.40	21911.60	-184534.00	201892.00	83532.20	2-3	157.50	3.772
10	535.71	1	SLU	-179806.00	50322.00	20563.00	-179806.00	200381.00	82853.40	2-3	157.50	3.989
11	595.24	1	SLU	-175087.00	46712.30	19087.90	-175087.00	198867.00	82172.40	2-3	157.50	4.264
12	654.76	1	SLU	-170378.00	42915.40	17536.40	-170378.00	197350.00	81488.80	2-3	157.50	4.606
13	714.29	1	SLU	-165678.00	39034.90	15950.80	-165678.00	195832.00	80803.80	2-3	157.50	5.024
14	773.81	1	SLU	-160986.00	35157.40	14366.30	-160986.00	194311.00	80115.30	2-3	157.50	5.534
15	833.33	1	SLU	-156304.00	31353.80	12812.00	-156304.00	192789.00	79426.60	2-3	157.50	6.156
16	892.86	1	SLU	-151629.00	27681.10	11311.20	-151629.00	191263.00	78733.40	2-3	157.50	6.917
17	952.38	1	SLU	-146963.00	24183.60	9882.10	-146963.00	189737.00	78041.10	2-3	157.50	7.853
18	1011.90	1	SLU	-142305.00	20895.00	8538.26	-142305.00	188207.00	77343.20	2-3	157.50	9.015
19	1071.43	1	SLU	-137654.00	17838.90	7289.47	-137654.00	186676.00	76646.50	2-3	157.50	10.472
20	1130.95	1	SLU	-133011.00	15031.00	6142.07	-133011.00	185141.00	75946.70	2-3	157.50	12.324
21	1190.48	1	SLU	-128375.00	12479.50	5099.48	-128375.00	183498.00	75373.80	2-3	157.50	14.715
22	1250.00	1	SLU	-123746.00	10187.00	4162.70	-123746.00	181847.00	74801.50	2-3	157.50	17.868
23	1309.52	1	SLU	-119123.00	8150.93	3330.69	-2571250.00	180195.00	74228.30	2-3	157.50	21.585
24	1369.05	1	SLU	-114507.00	6364.62	2600.76	-2571250.00	178536.00	73655.90	2-3	157.50	22.455
25	1428.57	1	SLU	-109897.00	4818.26	1968.88	-2571250.00	176875.00	73082.70	2-3	157.50	23.397
26	1488.10	1	SLU	-105293.00	3499.49	1429.99	-2571250.00	175208.00	72510.50	2-3	157.50	24.420
27	1547.62	1	SLU	-100695.00	2394.02	978.26	-2571250.00	173537.00	71937.90	2-3	157.50	25.535
28	1607.14	1	SLU	-96101.50	1486.17	607.29	-2571250.00	171862.00	71366.20	2-3	157.50	26.756
29	1666.67	1	SLU	-91513.50	759.33	310.28	-2571250.00	170182.00	70794.40	2-3	157.50	28.097
30	1726.19	1	SLU	-86930.50	196.28	80.20	-2571250.00	168499.00	70223.50	2-3	157.50	29.578
31	1785.71	1	SLU	-82352.10	-220.50	-90.10	-2571250.00	-167096.00	-68709.10	2-3	337.50	31.223
32	1845.24	1	SLU	-77778.20	-508.57	-207.82	-2571250.00	-165477.00	-67941.00	2-3	337.50	33.059

33	1904.76	1	SLU	-73208.40	-685.44	-280.09	-2571250.00	-163838.00	-67189.70	2-3	337.50	35.122
34	1964.29	1	SLU	-68642.50	-768.39	-313.99	-2571250.00	-162196.00	-66436.40	2-3	337.50	37.459
35	2023.81	1	SLU	-64080.40	-774.42	-316.45	-2571250.00	-160551.00	-65680.50	2-3	337.50	40.125
36	2083.33	1	SLU	-59521.60	-720.24	-294.31	-2571250.00	-158903.00	-64923.80	2-3	337.50	43.199
37	2142.86	1	SLU	-54966.10	-622.22	-254.25	-2571250.00	-157225.00	-64197.90	2-3	337.50	46.779
38	2202.38	1	SLU	-50413.50	-496.46	-202.87	-2571250.00	-155456.00	-63583.40	2-3	337.50	51.003
39	2261.90	1	SLU	-45863.60	-358.79	-146.61	-2571250.00	-153676.00	-62971.90	2-3	337.50	56.063
40	2321.43	1	SLU	-41316.20	-224.87	-91.89	-2571250.00	-151895.00	-62358.90	2-3	337.50	62.233
41	2380.95	1	SLU	-36771.00	-110.17	-45.02	-2571250.00	-150103.00	-61749.70	2-3	337.50	69.926
42	2440.48	1	SLU	-32227.70	-30.10	-12.30	-2571250.00	-148310.00	-61138.60	2-3	337.50	79.784
43	2500.00	1	SLU	-27686.20	0.00	0.00	-2571250.00					92.871

Stato limite ultimo – Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6647.96	-722.53	0.85	11.31	6687.11	1.00	32294.70	360990.00	32294.70	4.829
2	59.52	1	SLU	4275.18	-464.64	0.85	11.31	4300.35	1.00	32294.70	360959.00	32294.70	7.510
3	119.05	1	SLU	2237.61	-243.19	0.85	11.31	2250.78	1.00	32294.70	360657.00	32294.70	14.348
4	178.57	1	SLU	510.17	-55.45	0.85	11.31	513.17	1.00	32294.70	360356.00	32294.70	62.931
5	238.09	1	SLU	-932.73	101.37	0.85	11.31	938.22	1.00	32294.70	360057.00	32294.70	34.421
6	297.62	1	SLU	-2116.81	230.06	0.85	11.31	2129.27	1.00	32294.70	359758.00	32294.70	15.167
7	357.14	1	SLU	-3366.63	365.90	0.85	11.31	3386.45	1.00	32294.70	359460.00	32294.70	9.536
8	416.67	1	SLU	-4637.46	504.02	0.85	11.31	4664.77	1.00	32294.70	358779.00	32294.70	6.923
9	476.19	1	SLU	-5593.18	607.89	0.85	11.31	5626.11	1.00	32294.70	358101.00	32294.70	5.740
10	535.71	1	SLU	-6273.38	681.82	0.85	11.31	6310.32	1.00	32294.70	357423.00	32294.70	5.118
11	595.24	1	SLU	-6715.46	729.86	0.85	11.31	6755.01	1.00	32294.70	356747.00	32294.70	4.781
12	654.76	1	SLU	-6954.31	755.82	0.85	11.31	6995.26	1.00	32294.70	356073.00	32294.70	4.617
13	714.29	1	SLU	-7022.14	763.19	0.85	11.31	7063.49	1.00	32294.70	355400.00	32294.70	4.572
14	773.81	1	SLU	-6948.38	755.18	0.85	11.31	6989.30	1.00	32294.70	354728.00	32294.70	4.621
15	833.33	1	SLU	-6759.70	734.67	0.85	11.31	6799.51	1.00	32294.70	354057.00	32294.70	4.750
16	892.86	1	SLU	-6479.96	704.27	0.85	11.31	6518.12	1.00	32294.70	353387.00	32294.70	4.955
17	952.38	1	SLU	-6130.36	666.27	0.85	11.31	6166.46	1.00	32294.70	352719.00	32294.70	5.237
18	1011.90	1	SLU	-5729.49	622.70	0.85	11.31	5763.23	1.00	32294.70	352052.00	32294.70	5.604
19	1071.43	1	SLU	-5293.52	575.32	0.85	11.31	5324.69	1.00	32294.70	351386.00	32294.70	6.065
20	1130.95	1	SLU	-4836.33	525.63	0.85	11.31	4864.81	1.00	32294.70	350721.00	32294.70	6.638
21	1190.48	1	SLU	-4369.70	474.92	0.85	11.31	4395.43	1.00	32294.70	350056.00	32294.70	7.347
22	1250.00	1	SLU	-3903.47	424.25	0.85	11.31	3926.45	1.00	32294.70	349393.00	32294.70	8.225
23	1309.52	1	SLU	-3445.74	374.50	0.85	11.31	3466.03	1.00	32294.70	348731.00	32294.70	9.318
24	1369.05	1	SLU	-3003.06	326.38	0.85	11.31	3020.75	1.00	32294.70	348070.00	32294.70	10.691
25	1428.57	1	SLU	-2580.63	280.47	0.85	11.31	2595.82	1.00	32294.70	347410.00	32294.70	12.441
26	1488.10	1	SLU	-2182.41	237.19	0.85	11.31	2195.26	1.00	32294.70	346750.00	32294.70	14.711
27	1547.62	1	SLU	-1811.36	196.87	0.85	11.31	1822.03	1.00	32294.70	346092.00	32294.70	17.725
28	1607.14	1	SLU	-1469.57	159.72	0.85	11.31	1478.22	1.00	32294.70	345434.00	32294.70	21.847
29	1666.67	1	SLU	-1158.40	125.90	0.85	11.31	1165.22	1.00	32294.70	344776.00	32294.70	27.716
30	1726.19	1	SLU	-878.63	95.49	0.85	11.31	883.80	1.00	32294.70	344120.00	32294.70	36.541
31	1785.71	1	SLU	-630.57	68.53	0.85	11.31	634.28	1.00	32294.70	343464.00	32294.70	50.915
32	1845.24	1	SLU	-414.20	45.02	0.85	11.31	416.64	1.00	32294.70	342809.00	32294.70	77.513
33	1904.76	1	SLU	-229.23	24.91	0.85	11.31	230.58	1.00	32294.70	342154.00	32294.70	>100
34	1964.29	1	SLU	-75.20	8.17	0.85	11.31	75.65	1.00	32294.70	341500.00	32294.70	>100
35	2023.81	1	SLU	48.41	-5.26	0.85	11.31	48.70	1.00	32294.70	340847.00	32294.70	>100
36	2083.33	1	SLU	142.19	-15.45	0.85	11.31	143.02	1.00	32294.70	340194.00	32294.70	>100
37	2142.86	1	SLU	206.67	-22.46	0.85	11.31	207.89	1.00	32294.70	339541.00	32294.70	>100
38	2202.38	1	SLU	242.37	-26.34	0.85	11.31	243.79	1.00	32294.70	338889.00	32294.70	>100
39	2261.90	1	SLU	249.68	-27.14	0.85	11.31	251.15	1.00	32294.70	338238.00	32294.70	>100
40	2321.43	1	SLU	228.93	-24.88	0.85	11.31	230.28	1.00	32294.70	337586.00	32294.70	>100
41	2380.95	1	SLU	180.32	-19.60	0.85	11.31	181.39	1.00	32294.70	336935.00	32294.70	>100
42	2440.48	1	SLU	104.00	-11.30	0.85	11.31	104.61	1.00	32294.70	336284.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-151632.00	16842.80	41218.00	28.27	50.27	38.18	534.34
45	59.52	2	SLE R	-151786.00	17754.20	43448.50	28.27	50.27	40.20	561.08
46	119.05	2	SLE R	-150416.00	18296.00	44774.40	31.42	47.12	41.45	577.26
47	178.57	2	SLE R	-149051.00	18522.40	45328.20	31.42	47.12	41.99	584.14
48	238.09	2	SLE R	-147690.00	18483.10	45232.20	31.42	47.12	41.91	582.85
49	297.62	2	SLE R	-146334.00	18223.90	44597.80	31.42	47.12	41.32	574.71
50	357.14	2	SLE R	-144983.00	17769.20	43485.10	31.42	47.12	40.26	560.53
51	416.67	2	SLE R	-141481.00	17093.10	41830.50	31.42	47.12	38.72	539.42
52	476.19	2	SLE R	-137986.00	16230.80	39720.30	28.27	50.27	36.75	512.78
53	535.71	2	SLE R	-134499.00	15231.80	37275.50	28.27	50.27	34.51	482.41
54	595.24	2	SLE R	-131019.00	14139.20	34601.70	28.27	50.27	32.11	449.93
55	654.76	2	SLE R	-127546.00	12989.90	31789.20	25.13	53.41	29.66	416.73
56	714.29	2	SLE R	-124080.00	11815.40	28914.80	21.99	56.55	27.25	383.96
57	773.81	2	SLE R	-120621.00	10641.70	26042.50	21.99	56.55	24.94	352.50
58	833.33	2	SLE R	-117168.00	9490.40	23225.00	15.71	62.83	22.78	322.94
59	892.86	2	SLE R	-113721.00	8378.70	20504.50	12.57	65.97	20.79	295.59

60	952.38	2	SLE R	-110281.00	7320.07	17913.80	3.14	75.40	18.97	270.55
61	1011.90	2	SLE R	-106846.00	6324.64	15477.70	0.00	78.54	17.32	247.65
62	1071.43	2	SLE R	-103417.00	5399.61	13214.00	0.00	78.54	15.77	226.30
63	1130.95	2	SLE R	-99993.90	4549.68	11134.00	0.00	78.54	14.34	206.35
64	1190.48	2	SLE R	-96575.90	3777.39	9244.09	0.00	78.54	13.00	187.85
65	1250.00	2	SLE R	-93163.10	3083.48	7545.95	0.00	78.54	11.78	170.81
66	1309.52	2	SLE R	-89755.30	2467.18	6037.72	0.00	78.54	10.66	155.22
67	1369.05	2	SLE R	-86352.30	1926.49	4714.53	0.00	78.54	9.65	141.04
68	1428.57	2	SLE R	-82953.90	1458.43	3569.08	0.00	78.54	8.73	128.21
69	1488.10	2	SLE R	-79560.00	1059.25	2592.21	0.00	78.54	7.91	116.66
70	1547.62	2	SLE R	-76170.40	724.64	1773.35	0.00	78.54	7.18	106.32
71	1607.14	2	SLE R	-72784.80	449.85	1100.87	0.00	78.54	6.53	97.09
72	1666.67	2	SLE R	-69403.20	229.84	562.47	0.00	78.54	5.95	88.88
73	1726.19	2	SLE R	-66025.20	59.41	145.39	0.00	78.54	5.45	81.60
74	1785.71	2	SLE R	-62650.80	-66.74	-163.33	0.00	78.54	5.18	77.63
75	1845.24	2	SLE R	-59279.80	-153.94	-376.72	0.00	78.54	5.03	75.14
76	1904.76	2	SLE R	-55911.90	-207.47	-507.73	0.00	78.54	4.83	72.03
77	1964.29	2	SLE R	-52547.10	-232.58	-569.18	0.00	78.54	4.59	68.39
78	2023.81	2	SLE R	-49185.00	-234.41	-573.64	0.00	78.54	4.32	64.32
79	2083.33	2	SLE R	-45825.60	-218.01	-533.51	0.00	78.54	4.02	59.92
80	2142.86	2	SLE R	-42468.70	-188.34	-460.90	0.00	78.54	3.71	55.28
81	2202.38	2	SLE R	-39114.00	-150.27	-367.75	0.00	78.54	3.38	50.48
82	2261.90	2	SLE R	-35761.40	-108.60	-265.77	0.00	78.54	3.06	45.62
83	2321.43	2	SLE R	-32410.80	-68.06	-166.57	0.00	78.54	2.73	40.78
84	2380.95	2	SLE R	-29061.90	-33.35	-81.61	0.00	78.54	2.41	36.05
85	2440.48	2	SLE R	-25714.50	-9.11	-22.30	0.00	78.54	2.10	31.52
86	2500.00	2	SLE R	-22368.60	0.00	0.00	0.00	78.54	1.82	27.27
87	0.00	4	SLE Q	-151632.00	16842.80	41218.00	28.27	50.27	38.18	534.34
88	59.52	4	SLE Q	-151786.00	17754.20	43448.50	28.27	50.27	40.20	561.08
89	119.05	4	SLE Q	-150416.00	18296.00	44774.40	31.42	47.12	41.45	577.26
90	178.57	4	SLE Q	-149051.00	18522.40	45328.20	31.42	47.12	41.99	584.14
91	238.09	4	SLE Q	-147690.00	18483.10	45232.20	31.42	47.12	41.91	582.85
92	297.62	4	SLE Q	-146334.00	18223.90	44597.80	31.42	47.12	41.32	574.71
93	357.14	4	SLE Q	-144983.00	17769.20	43485.10	31.42	47.12	40.26	560.53
94	416.67	4	SLE Q	-141481.00	17093.10	41830.50	31.42	47.12	38.72	539.42
95	476.19	4	SLE Q	-137986.00	16230.80	39720.30	28.27	50.27	36.75	512.78
96	535.71	4	SLE Q	-134499.00	15231.80	37275.50	28.27	50.27	34.51	482.41
97	595.24	4	SLE Q	-131019.00	14139.20	34601.70	28.27	50.27	32.11	449.93
98	654.76	4	SLE Q	-127546.00	12989.90	31789.20	25.13	53.41	29.66	416.73
99	714.29	4	SLE Q	-124080.00	11815.40	28914.80	21.99	56.55	27.25	383.96
100	773.81	4	SLE Q	-120621.00	10641.70	26042.50	21.99	56.55	24.94	352.50
101	833.33	4	SLE Q	-117168.00	9490.40	23225.00	15.71	62.83	22.78	322.94
102	892.86	4	SLE Q	-113721.00	8378.70	20504.50	12.57	65.97	20.79	295.59
103	952.38	4	SLE Q	-110281.00	7320.07	17913.80	3.14	75.40	18.97	270.55
104	1011.90	4	SLE Q	-106846.00	6324.64	15477.70	0.00	78.54	17.32	247.65
105	1071.43	4	SLE Q	-103417.00	5399.61	13214.00	0.00	78.54	15.77	226.30
106	1130.95	4	SLE Q	-99993.90	4549.68	11134.00	0.00	78.54	14.34	206.35
107	1190.48	4	SLE Q	-96575.90	3777.39	9244.09	0.00	78.54	13.00	187.85
108	1250.00	4	SLE Q	-93163.10	3083.48	7545.95	0.00	78.54	11.78	170.81
109	1309.52	4	SLE Q	-89755.30	2467.18	6037.72	0.00	78.54	10.66	155.22
110	1369.05	4	SLE Q	-86352.30	1926.49	4714.53	0.00	78.54	9.65	141.04
111	1428.57	4	SLE Q	-82953.90	1458.43	3569.08	0.00	78.54	8.73	128.21
112	1488.10	4	SLE Q	-79560.00	1059.25	2592.21	0.00	78.54	7.91	116.66
113	1547.62	4	SLE Q	-76170.40	724.64	1773.35	0.00	78.54	7.18	106.32
114	1607.14	4	SLE Q	-72784.80	449.85	1100.87	0.00	78.54	6.53	97.09
115	1666.67	4	SLE Q	-69403.20	229.84	562.47	0.00	78.54	5.95	88.88
116	1726.19	4	SLE Q	-66025.20	59.41	145.39	0.00	78.54	5.45	81.60
117	1785.71	4	SLE Q	-62650.80	-66.74	-163.33	0.00	78.54	5.18	77.63
118	1845.24	4	SLE Q	-59279.80	-153.94	-376.72	0.00	78.54	5.03	75.14
119	1904.76	4	SLE Q	-55911.90	-207.47	-507.73	0.00	78.54	4.83	72.03
120	1964.29	4	SLE Q	-52547.10	-232.58	-569.18	0.00	78.54	4.59	68.39
121	2023.81	4	SLE Q	-49185.00	-234.41	-573.64	0.00	78.54	4.32	64.32
122	2083.33	4	SLE Q	-45825.60	-218.01	-533.51	0.00	78.54	4.02	59.92
123	2142.86	4	SLE Q	-42468.70	-188.34	-460.90	0.00	78.54	3.71	55.28
124	2202.38	4	SLE Q	-39114.00	-150.27	-367.75	0.00	78.54	3.38	50.48
125	2261.90	4	SLE Q	-35761.40	-108.60	-265.77	0.00	78.54	3.06	45.62
126	2321.43	4	SLE Q	-32410.80	-68.06	-166.57	0.00	78.54	2.73	40.78
127	2380.95	4	SLE Q	-29061.90	-33.35	-81.61	0.00	78.54	2.41	36.05
128	2440.48	4	SLE Q	-25714.50	-9.11	-22.30	0.00	78.54	2.10	31.52
129	2500.00	4	SLE Q	-22368.60	0.00	0.00	0.00	78.54	1.82	27.27

Stato limite d'esercizio – Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-151632.00	41218.00	16842.80	46.00	136.36	0.50	20.00	183.04	12.57	572.01	212.49	0.06	0.02
88	59.52	4	SLE Q	-151786.00	43448.50	17754.20	46.00	136.36	0.50	20.00	194.37	12.57	643.23	254.07	0.07	0.02
89	119.05	4	SLE Q	-150416.00	44774.40	18296.00	46.00	136.36	0.50	20.00	180.85	15.71	697.86	286.71	0.08	0.03

90	178.57	4	SLE Q	-149051.00	45328.20	18522.40	46.00	136.36	0.50	20.00	184.59	15.71	727.24	304.57	0.09	0.03
91	238.09	4	SLE Q	-147690.00	45232.20	18483.10	46.00	136.36	0.50	20.00	185.76	15.71	736.40	308.71	0.09	0.03
92	297.62	4	SLE Q	-146334.00	44597.80	18223.90	46.00	136.36	0.50	20.00	184.95	15.71	730.06	301.10	0.09	0.03
93	357.14	4	SLE Q	-144983.00	43485.10	17769.20	46.00	136.36	0.50	20.00	182.20	15.71	708.46	283.27	0.08	0.03
94	416.67	4	SLE Q	-141481.00	41830.50	17093.10	46.00	136.36	0.50	20.00	179.65	15.71	688.38	263.76	0.08	0.02
95	476.19	4	SLE Q	-137986.00	39720.30	16230.80	46.00	136.36	0.50	20.00	195.61	12.57	651.03	235.37	0.07	0.02
96	535.71	4	SLE Q	-134499.00	37275.50	15231.80	46.00	136.36	0.50	20.00	187.26	12.57	598.53	201.63	0.06	0.02
97	595.24	4	SLE Q	-131019.00	34601.70	14139.20	46.00	136.36	0.50	20.00	176.81	12.57	532.89	165.69	0.05	0.01
98	654.76	4	SLE Q	-127546.00	31789.20	12989.90	46.00	136.36	0.50	20.00	188.82	9.42	456.28	130.14	0.04	0.01
99	714.29	4	SLE Q	-124080.00	28914.80	11815.40	46.00	136.36	0.50	20.00	170.75	9.42	371.12	96.88	0.03	0.01
100	773.81	4	SLE Q	-120621.00	26042.50	10641.70	46.00	136.36	0.50	20.00	181.47	6.28	281.08	67.12	0.02	0.01
101	833.33	4	SLE Q	-117168.00	23225.00	9490.40	46.00	136.36	0.50	20.00	213.87	3.14	191.44	41.42	0.01	0.00
130	0.00	3	SLE F	-151632.00	41218.00	16842.80	46.00	136.36	0.50	20.00	183.04	12.57	572.01	212.49	0.06	0.02
131	59.52	3	SLE F	-151786.00	43448.50	17754.20	46.00	136.36	0.50	20.00	194.37	12.57	643.23	254.07	0.07	0.02
132	119.05	3	SLE F	-150416.00	44774.40	18296.00	46.00	136.36	0.50	20.00	180.85	15.71	697.86	286.71	0.08	0.03
133	178.57	3	SLE F	-149051.00	45328.20	18522.40	46.00	136.36	0.50	20.00	184.59	15.71	727.24	304.57	0.09	0.03
134	238.09	3	SLE F	-147690.00	45232.20	18483.10	46.00	136.36	0.50	20.00	185.76	15.71	736.40	308.71	0.09	0.03
135	297.62	3	SLE F	-146334.00	44597.80	18223.90	46.00	136.36	0.50	20.00	184.95	15.71	730.06	301.10	0.09	0.03
136	357.14	3	SLE F	-144983.00	43485.10	17769.20	46.00	136.36	0.50	20.00	182.20	15.71	708.46	283.27	0.08	0.03
137	416.67	3	SLE F	-141481.00	41830.50	17093.10	46.00	136.36	0.50	20.00	179.65	15.71	688.38	263.76	0.08	0.02
138	476.19	3	SLE F	-137986.00	39720.30	16230.80	46.00	136.36	0.50	20.00	195.61	12.57	651.03	235.37	0.07	0.02
139	535.71	3	SLE F	-134499.00	37275.50	15231.80	46.00	136.36	0.50	20.00	187.26	12.57	598.53	201.63	0.06	0.02
140	595.24	3	SLE F	-131019.00	34601.70	14139.20	46.00	136.36	0.50	20.00	176.81	12.57	532.89	165.69	0.05	0.01
141	654.76	3	SLE F	-127546.00	31789.20	12989.90	46.00	136.36	0.50	20.00	188.82	9.42	456.28	130.14	0.04	0.01
142	714.29	3	SLE F	-124080.00	28914.80	11815.40	46.00	136.36	0.50	20.00	170.75	9.42	371.12	96.88	0.03	0.01
143	773.81	3	SLE F	-120621.00	26042.50	10641.70	46.00	136.36	0.50	20.00	181.47	6.28	281.08	67.12	0.02	0.01
144	833.33	3	SLE F	-117168.00	23225.00	9490.40	46.00	136.36	0.50	20.00	213.87	3.14	191.44	41.42	0.01	0.00

Verifiche principali

Caso	Tipo
5	SLU N cost - min. sic.
13	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
47	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
48	C.Rare - Sf max (max traz.)
61	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
91	C.Q.Per. - Sf max (max traz.),C.Q.Per. - Wk Max
104	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 3

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 3 (-138)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	274379.00	6268.79	-556.06	37336.20	-24981.40
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	274379.00	6268.79	-556.06	37336.20	-24981.40
2	2	SLE R	RVN	203244.00	4643.55	-411.90	27656.40	-18504.80
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	203244.00	4643.55	-411.90	27656.40	-18504.80
3	3	SLE F	RVN	203244.00	4643.55	-411.90	27656.40	-18504.80
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	203244.00	4643.55	-411.90	27656.40	-18504.80
4	4	SLE Q	RVN	203244.00	4643.55	-411.90	27656.40	-18504.80
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	203244.00	4643.55	-411.90	27656.40	-18504.80

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-274379.00	-6268.79	556.06	-37336.20	24981.40
2	2	SLE R	1	-203244.00	-4643.55	411.90	-27656.40	18504.80
3	3	SLE F	1	-203244.00	-4643.55	411.90	-27656.40	18504.80
4	4	SLE Q	1	-203244.00	-4643.55	411.90	-27656.40	18504.80

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-274379.00	37169.30	24869.80	-274379.00	206117.00	137723.00	2-3	146.25	5.543
2	59.52	1	SLU	-273680.00	39782.80	26618.40	-273680.00	205935.00	137605.00	2-3	146.25	5.174
3	119.05	1	SLU	-270608.00	41486.90	27758.60	-270608.00	205135.00	137083.00	2-3	146.25	4.943
4	178.57	1	SLU	-267543.00	42410.80	28376.80	-267543.00	204332.00	136560.00	2-3	146.25	4.816
5	238.09	1	SLU	-264488.00	42673.80	28552.80	-264488.00	203529.00	136038.00	2-3	146.25	4.768
6	297.62	1	SLU	-261440.00	42385.50	28359.90	-261440.00	202728.00	135516.00	2-3	146.25	4.782
7	357.14	1	SLU	-258401.00	41602.80	27836.20	-258401.00	201926.00	134994.00	2-3	146.25	4.852
8	416.67	1	SLU	-252017.00	40253.70	26933.50	-252017.00	200233.00	133892.00	2-3	146.25	4.973
9	476.19	1	SLU	-245646.00	38422.10	25708.00	-245646.00	198534.00	132787.00	2-3	146.25	5.167
10	535.71	1	SLU	-239288.00	36228.80	24240.50	-239288.00	196832.00	131679.00	2-3	146.25	5.433
11	595.24	1	SLU	-232943.00	33779.60	22601.80	-232943.00	195120.00	130567.00	2-3	146.25	5.776
12	654.76	1	SLU	-226610.00	31165.80	20852.90	-226610.00	193404.00	129452.00	2-3	146.25	6.206
13	714.29	1	SLU	-220290.00	28465.20	19045.90	-220290.00	191682.00	128334.00	2-3	146.25	6.735
14	773.81	1	SLU	-213981.00	25743.20	17224.60	-213981.00	189954.00	127213.00	2-3	146.25	7.381
15	833.33	1	SLU	-207684.00	23053.90	15425.20	-207684.00	188222.00	126090.00	2-3	146.25	8.168
16	892.86	1	SLU	-201398.00	20441.00	13677.00	-201398.00	186483.00	124963.00	2-3	146.25	9.127
17	952.38	1	SLU	-195123.00	17939.30	12003.10	-195123.00	184774.00	123705.00	2-3	146.25	10.302
18	1011.90	1	SLU	-188858.00	15575.20	10421.30	-188858.00	183079.00	122372.00	2-3	146.25	11.751
19	1071.43	1	SLU	-182604.00	13368.20	8944.59	-182604.00	181378.00	121028.00	2-3	146.25	13.556
20	1130.95	1	SLU	-176359.00	11331.30	7581.74	-2571250.00	179673.00	119680.00	2-3	146.25	14.580
21	1190.48	1	SLU	-170124.00	9472.51	6338.00	-2571250.00	177962.00	118326.00	2-3	146.25	15.114
22	1250.00	1	SLU	-163897.00	7795.03	5215.61	-2571250.00	176141.00	117042.00	2-3	146.25	15.688
23	1309.52	1	SLU	-157680.00	6298.46	4214.26	-2571250.00	174244.00	115807.00	2-3	146.25	16.307
24	1369.05	1	SLU	-151471.00	4979.28	3331.60	-2571250.00	172329.00	114572.00	2-3	146.25	16.975
25	1428.57	1	SLU	-145270.00	3831.42	2563.58	-2571250.00	170379.00	113349.00	2-3	146.25	17.700
26	1488.10	1	SLU	-139077.00	2846.87	1904.82	-2571250.00	168422.00	112124.00	2-3	146.25	18.488
27	1547.62	1	SLU	-132892.00	2016.07	1348.94	-2571250.00	166455.00	110894.00	2-3	146.25	19.348
28	1607.14	1	SLU	-126713.00	1328.35	888.79	-2571250.00	164477.00	109661.00	2-3	146.25	20.292
29	1666.67	1	SLU	-120542.00	772.23	516.69	-2571250.00	162493.00	108425.00	2-3	146.25	21.331
30	1726.19	1	SLU	-114377.00	335.69	224.61	-2571250.00	160498.00	107185.00	2-3	146.25	22.481
31	1785.71	1	SLU	-108217.00	6.44	4.31	-2571250.00	158494.00	105942.00	2-3	146.25	23.760
32	1845.24	1	SLU	-102064.00	-227.97	-152.54	-2571250.00	-156676.00	-104737.00	2-3	326.25	25.192
33	1904.76	1	SLU	-95916.50	-379.99	-254.25	-2571250.00	-154820.00	-103273.00	2-3	326.25	26.807
34	1964.29	1	SLU	-89773.90	-461.96	-309.10	-2571250.00	-152958.00	-101805.00	2-3	326.25	28.641
35	2023.81	1	SLU	-83636.10	-486.07	-325.23	-2571250.00	-150999.00	-100398.00	2-3	326.25	30.743
36	2083.33	1	SLU	-77502.80	-464.33	-310.68	-2571250.00	-148935.00	-99061.70	2-3	326.25	33.176
37	2142.86	1	SLU	-71373.70	-408.55	-273.36	-2571250.00	-146864.00	-97720.50	2-3	326.25	36.025
38	2202.38	1	SLU	-65248.30	-330.35	-221.03	-2571250.00	-144780.00	-96371.30	2-3	326.25	39.407
39	2261.90	1	SLU	-59126.50	-241.18	-161.37	-2571250.00	-142687.00	-95015.90	2-3	326.25	43.487
40	2321.43	1	SLU	-53007.90	-152.37	-101.95	-2571250.00	-140587.00	-93655.10	2-3	326.25	48.507
41	2380.95	1	SLU	-46892.10	-75.13	-50.27	-2571250.00	-138476.00	-92287.80	2-3	326.25	54.833
42	2440.48	1	SLU	-40778.80	-20.64	-13.81	-2571250.00	-136355.00	-90914.10	2-3	326.25	63.054
43	2500.00	1	SLU	-34667.70	0.00	0.00	-2571250.00					74.168

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6268.79	-556.06	0.85	11.31	6293.40	1.00	32294.70	370970.00	32294.70	5.132
2	59.52	1	SLU	4301.75	-381.58	0.85	11.31	4318.64	1.00	32294.70	370870.00	32294.70	7.478
3	119.05	1	SLU	2604.02	-230.99	0.85	11.31	2614.25	1.00	32294.70	370430.00	32294.70	12.353
4	178.57	1	SLU	1156.50	-102.59	0.85	11.31	1161.05	1.00	32294.70	369991.00	32294.70	27.815
5	238.09	1	SLU	-60.52	5.37	0.85	11.31	60.75	1.00	32294.70	369553.00	32294.70	>100
6	297.62	1	SLU	-1067.01	94.65	0.85	11.31	1071.20	1.00	32294.70	369117.00	32294.70	30.148
7	357.14	1	SLU	-2141.16	189.93	0.85	11.31	2149.57	1.00	32294.70	368681.00	32294.70	15.024
8	416.67	1	SLU	-3245.36	287.87	0.85	11.31	3258.10	1.00	32294.70	367767.00	32294.70	9.912
9	476.19	1	SLU	-4090.00	362.80	0.85	11.31	4106.06	1.00	32294.70	366854.00	32294.70	7.865
10	535.71	1	SLU	-4706.68	417.50	0.85	11.31	4725.16	1.00	32294.70	365944.00	32294.70	6.835
11	595.24	1	SLU	-5125.38	454.64	0.85	11.31	5145.50	1.00	32294.70	365035.00	32294.70	6.276
12	654.76	1	SLU	-5374.18	476.71	0.85	11.31	5395.28	1.00	32294.70	364128.00	32294.70	5.986
13	714.29	1	SLU	-5479.14	486.02	0.85	11.31	5500.66	1.00	32294.70	363222.00	32294.70	5.871
14	773.81	1	SLU	-5464.18	484.69	0.85	11.31	5485.63	1.00	32294.70	362319.00	32294.70	5.887
15	833.33	1	SLU	-5351.01	474.65	0.85	11.31	5372.02	1.00	32294.70	361417.00	32294.70	6.012
16	892.86	1	SLU	-5159.20	457.64	0.85	11.31	5179.46	1.00	32294.70	360516.00	32294.70	6.235

17	952.38	1	SLU	-4906.17	435.19	0.85	11.31	4925.43	1.00	32294.70	359617.00	32294.70	6.557
18	1011.90	1	SLU	-4607.28	408.68	0.85	11.31	4625.37	1.00	32294.70	358720.00	32294.70	6.982
19	1071.43	1	SLU	-4275.95	379.29	0.85	11.31	4292.74	1.00	32294.70	357824.00	32294.70	7.523
20	1130.95	1	SLU	-3923.76	348.05	0.85	11.31	3939.17	1.00	32294.70	356930.00	32294.70	8.198
21	1190.48	1	SLU	-3560.58	315.83	0.85	11.31	3574.56	1.00	32294.70	356036.00	32294.70	9.035
22	1250.00	1	SLU	-3194.72	283.38	0.85	11.31	3207.26	1.00	32294.70	355145.00	32294.70	10.069
23	1309.52	1	SLU	-2833.07	251.30	0.85	11.31	2844.20	1.00	32294.70	354254.00	32294.70	11.355
24	1369.05	1	SLU	-2481.27	220.10	0.85	11.31	2491.01	1.00	32294.70	353365.00	32294.70	12.964
25	1428.57	1	SLU	-2143.80	190.16	0.85	11.31	2152.21	1.00	32294.70	352477.00	32294.70	15.005
26	1488.10	1	SLU	-1824.16	161.81	0.85	11.31	1831.32	1.00	32294.70	351589.00	32294.70	17.635
27	1547.62	1	SLU	-1525.01	135.27	0.85	11.31	1530.99	1.00	32294.70	350703.00	32294.70	21.094
28	1607.14	1	SLU	-1248.26	110.72	0.85	11.31	1253.17	1.00	32294.70	349818.00	32294.70	25.770
29	1666.67	1	SLU	-995.25	88.28	0.85	11.31	999.16	1.00	32294.70	348934.00	32294.70	32.322
30	1726.19	1	SLU	-766.78	68.02	0.85	11.31	769.79	1.00	32294.70	348051.00	32294.70	41.953
31	1785.71	1	SLU	-563.28	49.97	0.85	11.31	565.50	1.00	32294.70	347169.00	32294.70	57.109
32	1845.24	1	SLU	-384.87	34.14	0.85	11.31	386.38	1.00	32294.70	346288.00	32294.70	83.582
33	1904.76	1	SLU	-231.44	20.53	0.85	11.31	232.35	1.00	32294.70	345407.00	32294.70	>100
34	1964.29	1	SLU	-102.73	9.11	0.85	11.31	103.14	1.00	32294.70	344527.00	32294.70	>100
35	2023.81	1	SLU	1.61	-0.14	0.85	11.31	1.62	1.00	32294.70	343648.00	32294.70	>100
36	2083.33	1	SLU	81.97	-7.27	0.85	11.31	82.30	1.00	32294.70	342770.00	32294.70	>100
37	2142.86	1	SLU	138.76	-12.31	0.85	11.31	139.30	1.00	32294.70	341892.00	32294.70	>100
38	2202.38	1	SLU	172.32	-15.29	0.85	11.31	172.99	1.00	32294.70	341014.00	32294.70	>100
39	2261.90	1	SLU	182.96	-16.23	0.85	11.31	183.68	1.00	32294.70	340137.00	32294.70	>100
40	2321.43	1	SLU	170.92	-15.16	0.85	11.31	171.59	1.00	32294.70	339261.00	32294.70	>100
41	2380.95	1	SLU	136.36	-12.10	0.85	11.31	136.89	1.00	32294.70	338385.00	32294.70	>100
42	2440.48	1	SLU	79.37	-7.04	0.85	11.31	79.68	1.00	32294.70	337509.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_F <daN/cmq>
44	0.00	2	SLE R	-203244.00	18422.10	27532.80	0.00	78.54	33.66	480.95
45	59.52	2	SLE R	-203039.00	19717.30	29468.70	3.14	75.40	34.87	497.46
46	119.05	2	SLE R	-200953.00	20562.00	30731.00	9.42	69.11	35.54	506.34
47	178.57	2	SLE R	-198874.00	21019.90	31415.40	12.57	65.97	35.85	510.30
48	238.09	2	SLE R	-196800.00	21150.20	31610.20	12.57	65.97	35.84	509.85
49	297.62	2	SLE R	-194733.00	21007.30	31396.70	12.57	65.97	35.55	505.61
50	357.14	2	SLE R	-192672.00	20619.40	30816.90	12.57	65.97	35.00	497.93
51	416.67	2	SLE R	-187958.00	19950.80	29817.60	12.57	65.97	33.97	483.46
52	476.19	2	SLE R	-183254.00	19042.90	28460.80	12.57	65.97	32.71	465.72
53	535.71	2	SLE R	-178560.00	17955.90	26836.20	6.28	72.26	31.27	445.67
54	595.24	2	SLE R	-173875.00	16742.00	25022.00	0.00	78.54	29.72	424.13
55	654.76	2	SLE R	-169200.00	15446.60	23085.80	0.00	78.54	28.12	401.80
56	714.29	2	SLE R	-164534.00	14108.10	21085.40	0.00	78.54	26.50	379.14
57	773.81	2	SLE R	-159876.00	12759.00	19069.00	0.00	78.54	24.86	356.39
58	833.33	2	SLE R	-155228.00	11426.10	17076.90	0.00	78.54	23.24	333.85
59	892.86	2	SLE R	-150587.00	10131.10	15141.50	0.00	78.54	21.66	311.81
60	952.38	2	SLE R	-145955.00	8891.17	13288.40	0.00	78.54	20.13	290.47
61	1011.90	2	SLE R	-141330.00	7719.48	11537.20	0.00	78.54	18.67	270.00
62	1071.43	2	SLE R	-136713.00	6625.62	9902.37	0.00	78.54	17.27	250.53
63	1130.95	2	SLE R	-132103.00	5616.10	8393.59	0.00	78.54	15.96	232.14
64	1190.48	2	SLE R	-127501.00	4694.81	7016.67	0.00	78.54	14.73	214.87
65	1250.00	2	SLE R	-122905.00	3863.41	5774.09	0.00	78.54	13.58	198.74
66	1309.52	2	SLE R	-118316.00	3121.68	4665.53	0.00	78.54	12.52	183.76
67	1369.05	2	SLE R	-113733.00	2467.85	3688.35	0.00	78.54	11.54	169.90
68	1428.57	2	SLE R	-109156.00	1898.95	2838.09	0.00	78.54	10.64	157.12
69	1488.10	2	SLE R	-104585.00	1410.98	2108.79	0.00	78.54	9.81	145.37
70	1547.62	2	SLE R	-100020.00	999.22	1493.39	0.00	78.54	9.06	134.59
71	1607.14	2	SLE R	-95460.30	658.36	983.96	0.00	78.54	8.37	124.72
72	1666.67	2	SLE R	-90905.50	382.74	572.02	0.00	78.54	7.75	115.68
73	1726.19	2	SLE R	-86355.60	166.38	248.66	0.00	78.54	7.17	107.39
74	1785.71	2	SLE R	-81810.40	3.19	4.77	0.00	78.54	6.65	99.79
75	1845.24	2	SLE R	-77269.50	-112.99	-168.87	0.00	78.54	6.39	95.63
76	1904.76	2	SLE R	-72732.80	-188.33	-281.48	0.00	78.54	6.09	91.05
77	1964.29	2	SLE R	-68199.90	-228.96	-342.19	0.00	78.54	5.76	86.04
78	2023.81	2	SLE R	-63670.80	-240.91	-360.05	0.00	78.54	5.40	80.66
79	2083.33	2	SLE R	-59145.00	-230.13	-343.95	0.00	78.54	5.02	75.01
80	2142.86	2	SLE R	-54622.40	-202.49	-302.63	0.00	78.54	4.63	69.15
81	2202.38	2	SLE R	-50102.80	-163.73	-244.70	0.00	78.54	4.22	63.15
82	2261.90	2	SLE R	-45585.80	-119.53	-178.65	0.00	78.54	3.82	57.09
83	2321.43	2	SLE R	-41071.30	-75.52	-112.86	0.00	78.54	3.41	51.03
84	2380.95	2	SLE R	-36559.00	-37.24	-55.65	0.00	78.54	3.01	45.04
85	2440.48	2	SLE R	-32048.60	-10.23	-15.29	0.00	78.54	2.61	39.20
86	2500.00	2	SLE R	-27540.00	0.00	0.00	0.00	78.54	2.24	33.58
87	0.00	4	SLE Q	-203244.00	18422.10	27532.80	0.00	78.54	33.66	480.95
88	59.52	4	SLE Q	-203039.00	19717.30	29468.70	3.14	75.40	34.87	497.46
89	119.05	4	SLE Q	-200953.00	20562.00	30731.00	9.42	69.11	35.54	506.34
90	178.57	4	SLE Q	-198874.00	21019.90	31415.40	12.57	65.97	35.85	510.30

91	238.09	4	SLE Q	-196800.00	21150.20	31610.20	12.57	65.97	35.84	509.85
92	297.62	4	SLE Q	-194733.00	21007.30	31396.70	12.57	65.97	35.55	505.61
93	357.14	4	SLE Q	-192672.00	20619.40	30816.90	12.57	65.97	35.00	497.93
94	416.67	4	SLE Q	-187958.00	19950.80	29817.60	12.57	65.97	33.97	483.46
95	476.19	4	SLE Q	-183254.00	19042.90	28460.80	12.57	65.97	32.71	465.72
96	535.71	4	SLE Q	-178560.00	17955.90	26836.20	6.28	72.26	31.27	445.67
97	595.24	4	SLE Q	-173875.00	16742.00	25022.00	0.00	78.54	29.72	424.13
98	654.76	4	SLE Q	-169200.00	15446.60	23085.80	0.00	78.54	28.12	401.80
99	714.29	4	SLE Q	-164534.00	14108.10	21085.40	0.00	78.54	26.50	379.14
100	773.81	4	SLE Q	-159876.00	12759.00	19069.00	0.00	78.54	24.86	356.39
101	833.33	4	SLE Q	-155228.00	11426.10	17076.90	0.00	78.54	23.24	333.85
102	892.86	4	SLE Q	-150587.00	10131.10	15141.50	0.00	78.54	21.66	311.81
103	952.38	4	SLE Q	-145955.00	8891.17	13288.40	0.00	78.54	20.13	290.47
104	1011.90	4	SLE Q	-141330.00	7719.48	11537.20	0.00	78.54	18.67	270.00
105	1071.43	4	SLE Q	-136713.00	6625.62	9902.37	0.00	78.54	17.27	250.53
106	1130.95	4	SLE Q	-132103.00	5616.10	8393.59	0.00	78.54	15.96	232.14
107	1190.48	4	SLE Q	-127501.00	4694.81	7016.67	0.00	78.54	14.73	214.87
108	1250.00	4	SLE Q	-122905.00	3863.41	5774.09	0.00	78.54	13.58	198.74
109	1309.52	4	SLE Q	-118316.00	3121.68	4665.53	0.00	78.54	12.52	183.76
110	1369.05	4	SLE Q	-113733.00	2467.85	3688.35	0.00	78.54	11.54	169.90
111	1428.57	4	SLE Q	-109156.00	1898.95	2838.09	0.00	78.54	10.64	157.12
112	1488.10	4	SLE Q	-104585.00	1410.98	2108.79	0.00	78.54	9.81	145.37
113	1547.62	4	SLE Q	-100020.00	999.22	1493.39	0.00	78.54	9.06	134.59
114	1607.14	4	SLE Q	-95460.30	658.36	983.96	0.00	78.54	8.37	124.72
115	1666.67	4	SLE Q	-90905.50	382.74	572.02	0.00	78.54	7.75	115.68
116	1726.19	4	SLE Q	-86355.60	166.38	248.66	0.00	78.54	7.17	107.39
117	1785.71	4	SLE Q	-81810.40	3.19	4.77	0.00	78.54	6.65	99.79
118	1845.24	4	SLE Q	-77269.50	-112.99	-168.87	0.00	78.54	6.39	95.63
119	1904.76	4	SLE Q	-72732.80	-188.33	-281.48	0.00	78.54	6.09	91.05
120	1964.29	4	SLE Q	-68199.90	-228.96	-342.19	0.00	78.54	5.76	86.04
121	2023.81	4	SLE Q	-63670.80	-240.91	-360.05	0.00	78.54	5.40	80.66
122	2083.33	4	SLE Q	-59145.00	-230.13	-343.95	0.00	78.54	5.02	75.01
123	2142.86	4	SLE Q	-54622.40	-202.49	-302.63	0.00	78.54	4.63	69.15
124	2202.38	4	SLE Q	-50102.80	-163.73	-244.70	0.00	78.54	4.22	63.15
125	2261.90	4	SLE Q	-45585.80	-119.53	-178.65	0.00	78.54	3.82	57.09
126	2321.43	4	SLE Q	-41071.30	-75.52	-112.86	0.00	78.54	3.41	51.03
127	2380.95	4	SLE Q	-36559.00	-37.24	-55.65	0.00	78.54	3.01	45.04
128	2440.48	4	SLE Q	-32048.60	-10.23	-15.29	0.00	78.54	2.61	39.20
129	2500.00	4	SLE Q	-27540.00	0.00	0.00	0.00	78.54	2.24	33.58

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
47	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
49	C.Rare - Sf max (max traz.)
56	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
92	C.Q.Per. - Sf max (max traz.)
99	C.Q.Per. - Sc max (min. compr.)

Palo n. 4

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 4 (-152)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	315710.00	6042.70	-210.70	21456.20	-10595.20
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	315710.00	6042.70	-210.70	21456.20	-10595.20
2	2	SLE R	RVN	233859.00	4476.07	-156.07	15893.50	-7848.29
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	233859.00	4476.07	-156.07	15893.50	-7848.29

3	3	SLE F	RVN	233859.00	4476.07	-156.07	15893.50	-7848.29
	3	SLE F	TAN				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	233859.00	4476.07	-156.07	15893.50	-7848.29
4	4	SLE Q	RVN	233859.00	4476.07	-156.07	15893.50	-7848.29
	4	SLE Q	TAN				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	233859.00	4476.07	-156.07	15893.50	-7848.29

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-315710.00	-6042.70	210.70	-21456.20	10595.20
2	2	SLE R	1	-233859.00	-4476.07	156.07	-15893.50	7848.29
3	3	SLE F	1	-233859.00	-4476.07	156.07	-15893.50	7848.29
4	4	SLE Q	1	-233859.00	-4476.07	156.07	-15893.50	7848.29

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-315710.00	21322.90	10529.40	-2571250.00	233681.00	115344.00	2-3	153.75	8.144
2	59.52	1	SLU	-314723.00	24152.60	11926.70	-2571250.00	233428.00	115223.00	2-3	153.75	8.170
3	119.05	1	SLU	-311077.00	26253.70	12964.20	-2571250.00	232491.00	114774.00	2-3	153.75	8.266
4	178.57	1	SLU	-307441.00	27721.40	13689.00	-307441.00	231550.00	114323.00	2-3	153.75	8.352
5	238.09	1	SLU	-303815.00	28644.90	14145.00	-303815.00	230610.00	113873.00	2-3	153.75	8.051
6	297.62	1	SLU	-300198.00	29106.60	14373.00	-300198.00	229671.00	113424.00	2-3	153.75	7.891
7	357.14	1	SLU	-296590.00	29145.10	14392.00	-296590.00	228728.00	112973.00	2-3	153.75	7.848
8	416.67	1	SLU	-289235.00	28687.10	14165.90	-289235.00	226790.00	112038.00	2-3	153.75	7.906
9	476.19	1	SLU	-281896.00	27793.90	13724.80	-281896.00	224841.00	110925.00	2-3	153.75	8.088
10	535.71	1	SLU	-274571.00	26560.70	13115.80	-274571.00	222884.00	109805.00	2-3	153.75	8.388
11	595.24	1	SLU	-267261.00	25071.90	12380.60	-267261.00	220920.00	108680.00	2-3	153.75	8.805
12	654.76	1	SLU	-259966.00	23401.10	11555.60	-259966.00	218860.00	107627.00	2-3	153.75	9.345
13	714.29	1	SLU	-252684.00	21611.90	10672.10	-252684.00	216707.00	106640.00	2-3	153.75	10.020
14	773.81	1	SLU	-245417.00	19758.90	9757.05	-2571250.00	214543.00	105647.00	2-3	153.75	10.477
15	833.33	1	SLU	-238162.00	17887.70	8833.06	-2571250.00	212371.00	104615.00	2-3	153.75	10.796
16	892.86	1	SLU	-230920.00	16036.40	7918.84	-2571250.00	210188.00	103569.00	2-3	153.75	11.135
17	952.38	1	SLU	-223690.00	14235.50	7029.59	-2571250.00	207992.00	102516.00	2-3	153.75	11.495
18	1011.90	1	SLU	-216473.00	12509.70	6177.36	-2571250.00	205786.00	101458.00	2-3	153.75	11.878
19	1071.43	1	SLU	-209267.00	10877.60	5371.40	-2571250.00	203570.00	100396.00	2-3	153.75	12.287
20	1130.95	1	SLU	-202072.00	9352.90	4618.51	-2571250.00	201340.00	99327.30	2-3	153.75	12.724
21	1190.48	1	SLU	-194888.00	7945.10	3923.33	-2571250.00	199100.00	98254.00	2-3	153.75	13.194
22	1250.00	1	SLU	-187714.00	6659.88	3288.68	-2571250.00	196851.00	97176.60	2-3	153.75	13.698
23	1309.52	1	SLU	-180551.00	5499.77	2715.81	-2571250.00	194591.00	96094.60	2-3	153.75	14.241
24	1369.05	1	SLU	-173397.00	4464.65	2204.67	-2571250.00	192319.00	95007.10	2-3	153.75	14.829
25	1428.57	1	SLU	-166253.00	3552.24	1754.11	-2571250.00	190038.00	93915.80	2-3	153.75	15.466
26	1488.10	1	SLU	-159117.00	2758.43	1362.13	-2571250.00	187749.00	92820.70	2-3	153.75	16.159
27	1547.62	1	SLU	-151990.00	2077.75	1026.00	-2571250.00	185449.00	91720.80	2-3	153.75	16.917
28	1607.14	1	SLU	-144872.00	1503.59	742.48	-2571250.00	183139.00	90617.00	2-3	153.75	17.748
29	1666.67	1	SLU	-137761.00	1028.55	507.90	-2571250.00	180821.00	89509.90	2-3	153.75	18.665
30	1726.19	1	SLU	-130657.00	644.62	318.31	-2571250.00	178494.00	88398.90	2-3	153.75	19.679
31	1785.71	1	SLU	-123560.00	343.36	169.55	-2571250.00	176158.00	87284.30	2-3	153.75	20.810
32	1845.24	1	SLU	-116470.00	116.11	57.34	-2571250.00	173824.00	86113.40	2-3	153.75	22.076
33	1904.76	1	SLU	-109387.00	-45.94	-22.68	-2571250.00	-171388.00	-84545.20	2-3	333.75	23.506
34	1964.29	1	SLU	-102309.00	-151.65	-74.89	-2571250.00	-168918.00	-83411.00	2-3	333.75	25.132
35	2023.81	1	SLU	-95236.20	-209.85	-103.62	-2571250.00	-166438.00	-82242.40	2-3	333.75	26.999
36	2083.33	1	SLU	-88168.90	-229.32	-113.24	-2571250.00	-163949.00	-81053.30	2-3	333.75	29.163
37	2142.86	1	SLU	-81106.30	-218.73	-108.01	-2571250.00	-161451.00	-79860.50	2-3	333.75	31.702
38	2202.38	1	SLU	-74048.10	-186.69	-92.19	-2571250.00	-158943.00	-78663.80	2-3	333.75	34.724
39	2261.90	1	SLU	-66993.80	-141.70	-69.97	-2571250.00	-156423.00	-77463.00	2-3	333.75	38.380
40	2321.43	1	SLU	-59943.20	-92.18	-45.52	-2571250.00	-153894.00	-76259.10	2-3	333.75	42.895
41	2380.95	1	SLU	-52895.70	-46.51	-22.97	-2571250.00	-151358.00	-75052.10	2-3	333.75	48.610
42	2440.48	1	SLU	-45851.10	-13.01	-6.42	-2571250.00	-148810.00	-73841.80	2-3	333.75	56.078
43	2500.00	1	SLU	-38808.90	0.00	0.00	-2571250.00					66.254

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6042.70	-210.70	0.85	11.31	6046.37	1.00	32294.70	376890.00	32294.70	5.341
2	59.52	1	SLU	4585.88	-159.90	0.85	11.31	4588.67	1.00	32294.70	376749.00	32294.70	7.038
3	119.05	1	SLU	3312.66	-115.51	0.85	11.31	3314.68	1.00	32294.70	376227.00	32294.70	9.743
4	178.57	1	SLU	2212.01	-77.13	0.85	11.31	2213.36	1.00	32294.70	375706.00	32294.70	14.591
5	238.09	1	SLU	1272.13	-44.36	0.85	11.31	1272.90	1.00	32294.70	375186.00	32294.70	25.371
6	297.62	1	SLU	480.70	-16.76	0.85	11.31	481.00	1.00	32294.70	374668.00	32294.70	67.141
7	357.14	1	SLU	-385.13	13.43	0.85	11.31	385.37	1.00	32294.70	374152.00	32294.70	83.802

8	416.67	1	SLU	-1296.56	45.21	0.85	11.31	1297.35	1.00	32294.70	373098.00	32294.70	24.893
9	476.19	1	SLU	-2018.86	70.40	0.85	11.31	2020.09	1.00	32294.70	372047.00	32294.70	15.987
10	535.71	1	SLU	-2573.14	89.72	0.85	11.31	2574.70	1.00	32294.70	370998.00	32294.70	12.543
11	595.24	1	SLU	-2979.70	103.90	0.85	11.31	2981.52	1.00	32294.70	369950.00	32294.70	10.832
12	654.76	1	SLU	-3257.83	113.60	0.85	11.31	3259.81	1.00	32294.70	368905.00	32294.70	9.907
13	714.29	1	SLU	-3425.62	119.45	0.85	11.31	3427.70	1.00	32294.70	367862.00	32294.70	9.422
14	773.81	1	SLU	-3499.85	122.04	0.85	11.31	3501.98	1.00	32294.70	366821.00	32294.70	9.222
15	833.33	1	SLU	-3495.96	121.90	0.85	11.31	3498.09	1.00	32294.70	365782.00	32294.70	9.232
16	892.86	1	SLU	-3427.99	119.53	0.85	11.31	3430.07	1.00	32294.70	364745.00	32294.70	9.415
17	952.38	1	SLU	-3308.57	115.37	0.85	11.31	3310.58	1.00	32294.70	363709.00	32294.70	9.755
18	1011.90	1	SLU	-3148.98	109.80	0.85	11.31	3150.90	1.00	32294.70	362676.00	32294.70	10.249
19	1071.43	1	SLU	-2959.19	103.18	0.85	11.31	2960.99	1.00	32294.70	361643.00	32294.70	10.907
20	1130.95	1	SLU	-2747.90	95.82	0.85	11.31	2749.57	1.00	32294.70	360613.00	32294.70	11.745
21	1190.48	1	SLU	-2522.64	87.96	0.85	11.31	2524.17	1.00	32294.70	359584.00	32294.70	12.794
22	1250.00	1	SLU	-2289.83	79.84	0.85	11.31	2291.22	1.00	32294.70	358556.00	32294.70	14.095
23	1309.52	1	SLU	-2054.91	71.65	0.85	11.31	2056.16	1.00	32294.70	357530.00	32294.70	15.706
24	1369.05	1	SLU	-1822.39	63.54	0.85	11.31	1823.49	1.00	32294.70	356505.00	32294.70	17.710
25	1428.57	1	SLU	-1595.96	55.65	0.85	11.31	1596.93	1.00	32294.70	355482.00	32294.70	20.223
26	1488.10	1	SLU	-1378.61	48.07	0.85	11.31	1379.45	1.00	32294.70	354460.00	32294.70	23.411
27	1547.62	1	SLU	-1172.66	40.89	0.85	11.31	1173.37	1.00	32294.70	353439.00	32294.70	27.523
28	1607.14	1	SLU	-979.90	34.17	0.85	11.31	980.50	1.00	32294.70	352419.00	32294.70	32.937
29	1666.67	1	SLU	-801.65	27.95	0.85	11.31	802.14	1.00	32294.70	351401.00	32294.70	40.261
30	1726.19	1	SLU	-638.85	22.28	0.85	11.31	639.23	1.00	32294.70	350383.00	32294.70	50.521
31	1785.71	1	SLU	-492.08	17.16	0.85	11.31	492.38	1.00	32294.70	349367.00	32294.70	65.588
32	1845.24	1	SLU	-361.73	12.61	0.85	11.31	361.95	1.00	32294.70	348351.00	32294.70	89.225
33	1904.76	1	SLU	-247.93	8.65	0.85	11.31	248.08	1.00	32294.70	347337.00	32294.70	>100
34	1964.29	1	SLU	-150.72	5.26	0.85	11.31	150.81	1.00	32294.70	346323.00	32294.70	>100
35	2023.81	1	SLU	-69.99	2.44	0.85	11.31	70.03	1.00	32294.70	345310.00	32294.70	>100
36	2083.33	1	SLU	-5.62	0.20	0.85	11.31	5.62	1.00	32294.70	344297.00	32294.70	>100
37	2142.86	1	SLU	42.58	-1.48	0.85	11.31	42.60	1.00	32294.70	343286.00	32294.70	>100
38	2202.38	1	SLU	74.77	-2.61	0.85	11.31	74.81	1.00	32294.70	342275.00	32294.70	>100
39	2261.90	1	SLU	91.11	-3.18	0.85	11.31	91.16	1.00	32294.70	341264.00	32294.70	>100
40	2321.43	1	SLU	91.73	-3.20	0.85	11.31	91.78	1.00	32294.70	340254.00	32294.70	>100
41	2380.95	1	SLU	76.72	-2.68	0.85	11.31	76.77	1.00	32294.70	339245.00	32294.70	>100
42	2440.48	1	SLU	46.14	-1.61	0.85	11.31	46.16	1.00	32294.70	338236.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-233859.00	7799.54	15794.80	0.00	78.54	28.03	408.43
45	59.52	2	SLE R	-233441.00	8834.56	17890.80	0.00	78.54	29.19	424.28
46	119.05	2	SLE R	-230931.00	9603.11	19447.20	0.00	78.54	29.88	433.37
47	178.57	2	SLE R	-228428.00	10140.00	20534.40	0.00	78.54	30.30	438.80
48	238.09	2	SLE R	-225932.00	10477.80	21218.40	0.00	78.54	30.49	441.10
49	297.62	2	SLE R	-223443.00	10646.70	21560.40	0.00	78.54	30.48	440.73
50	357.14	2	SLE R	-220961.00	10660.70	21588.90	0.00	78.54	30.29	437.93
51	416.67	2	SLE R	-215527.00	10493.20	21249.70	0.00	78.54	29.66	428.66
52	476.19	2	SLE R	-210106.00	10166.50	20588.10	0.00	78.54	28.84	416.88
53	535.71	2	SLE R	-204696.00	9715.44	19674.60	0.00	78.54	27.88	403.15
54	595.24	2	SLE R	-199297.00	9170.84	18571.80	0.00	78.54	26.81	387.96
55	654.76	2	SLE R	-193908.00	8559.68	17334.10	0.00	78.54	25.66	371.73
56	714.29	2	SLE R	-188530.00	7905.25	16008.80	0.00	78.54	24.47	354.83
57	773.81	2	SLE R	-183162.00	7227.44	14636.20	0.00	78.54	23.25	337.57
58	833.33	2	SLE R	-177804.00	6543.01	13250.20	0.00	78.54	22.02	320.22
59	892.86	2	SLE R	-172455.00	5865.81	11878.80	0.00	78.54	20.80	302.99
60	952.38	2	SLE R	-167116.00	5207.10	10544.80	0.00	78.54	19.61	286.07
61	1011.90	2	SLE R	-161785.00	4575.82	9266.45	0.00	78.54	18.44	269.59
62	1071.43	2	SLE R	-156463.00	3978.82	8057.46	0.00	78.54	17.32	253.66
63	1130.95	2	SLE R	-151150.00	3421.12	6928.07	0.00	78.54	16.24	238.37
64	1190.48	2	SLE R	-145845.00	2906.17	5885.26	0.00	78.54	15.22	223.76
65	1250.00	2	SLE R	-140547.00	2436.06	4933.24	0.00	78.54	14.24	209.87
66	1309.52	2	SLE R	-135257.00	2011.71	4073.90	0.00	78.54	13.32	196.71
67	1369.05	2	SLE R	-129975.00	1633.09	3307.15	0.00	78.54	12.45	184.29
68	1428.57	2	SLE R	-124699.00	1299.34	2631.29	0.00	78.54	11.64	172.58
69	1488.10	2	SLE R	-119430.00	1008.98	2043.28	0.00	78.54	10.87	161.56
70	1547.62	2	SLE R	-114167.00	760.00	1539.07	0.00	78.54	10.16	151.21
71	1607.14	2	SLE R	-108911.00	549.99	1113.77	0.00	78.54	9.49	141.48
72	1666.67	2	SLE R	-103660.00	376.23	761.89	0.00	78.54	8.86	132.33
73	1726.19	2	SLE R	-98415.20	235.79	477.49	0.00	78.54	8.27	123.72
74	1785.71	2	SLE R	-93175.40	125.59	254.34	0.00	78.54	7.72	115.59
75	1845.24	2	SLE R	-87940.60	42.47	86.01	0.00	78.54	7.20	107.89
76	1904.76	2	SLE R	-82710.50	-16.80	-34.03	0.00	78.54	6.74	101.11
77	1964.29	2	SLE R	-77484.90	-55.47	-112.33	0.00	78.54	6.36	95.35
78	2023.81	2	SLE R	-72263.40	-76.76	-155.44	0.00	78.54	5.96	89.33
79	2083.33	2	SLE R	-67045.80	-83.88	-169.86	0.00	78.54	5.55	83.08
80	2142.86	2	SLE R	-61831.80	-80.01	-162.02	0.00	78.54	5.12	76.66
81	2202.38	2	SLE R	-56621.10	-68.29	-138.29	0.00	78.54	4.68	70.12

82	2261.90	2	SLE R	-51413.40	-51.83	-104.96	0.00	78.54	4.24	63.51
83	2321.43	2	SLE R	-46208.50	-33.72	-68.28	0.00	78.54	3.79	56.88
84	2380.95	2	SLE R	-41006.10	-17.01	-34.45	0.00	78.54	3.35	50.27
85	2440.48	2	SLE R	-35805.90	-4.76	-9.64	0.00	78.54	2.92	43.73
86	2500.00	2	SLE R	-30607.60	0.00	0.00	0.00	78.54	2.49	37.32
87	0.00	4	SLE Q	-233859.00	7799.54	15794.80	0.00	78.54	28.03	408.43
88	59.52	4	SLE Q	-233441.00	8834.56	17890.80	0.00	78.54	29.19	424.28
89	119.05	4	SLE Q	-230931.00	9603.11	19447.20	0.00	78.54	29.88	433.37
90	178.57	4	SLE Q	-228428.00	10140.00	20534.40	0.00	78.54	30.30	438.80
91	238.09	4	SLE Q	-225932.00	10477.80	21218.40	0.00	78.54	30.49	441.10
92	297.62	4	SLE Q	-223443.00	10646.70	21560.40	0.00	78.54	30.48	440.73
93	357.14	4	SLE Q	-220961.00	10660.70	21588.90	0.00	78.54	30.29	437.93
94	416.67	4	SLE Q	-215527.00	10493.20	21249.70	0.00	78.54	29.66	428.66
95	476.19	4	SLE Q	-210106.00	10166.50	20588.10	0.00	78.54	28.84	416.88
96	535.71	4	SLE Q	-204696.00	9715.44	19674.60	0.00	78.54	27.88	403.15
97	595.24	4	SLE Q	-199297.00	9170.84	18571.80	0.00	78.54	26.81	387.96
98	654.76	4	SLE Q	-193908.00	8559.68	17334.10	0.00	78.54	25.66	371.73
99	714.29	4	SLE Q	-188530.00	7905.25	16008.80	0.00	78.54	24.47	354.83
100	773.81	4	SLE Q	-183162.00	7227.44	14636.20	0.00	78.54	23.25	337.57
101	833.33	4	SLE Q	-177804.00	6543.01	13250.20	0.00	78.54	22.02	320.22
102	892.86	4	SLE Q	-172455.00	5865.81	11878.80	0.00	78.54	20.80	302.99
103	952.38	4	SLE Q	-167116.00	5207.10	10544.80	0.00	78.54	19.61	286.07
104	1011.90	4	SLE Q	-161785.00	4575.82	9266.45	0.00	78.54	18.44	269.59
105	1071.43	4	SLE Q	-156463.00	3978.82	8057.46	0.00	78.54	17.32	253.66
106	1130.95	4	SLE Q	-151150.00	3421.12	6928.07	0.00	78.54	16.24	238.37
107	1190.48	4	SLE Q	-145845.00	2906.17	5885.26	0.00	78.54	15.22	223.76
108	1250.00	4	SLE Q	-140547.00	2436.06	4933.24	0.00	78.54	14.24	209.87
109	1309.52	4	SLE Q	-135257.00	2011.71	4073.90	0.00	78.54	13.32	196.71
110	1369.05	4	SLE Q	-129975.00	1633.09	3307.15	0.00	78.54	12.45	184.29
111	1428.57	4	SLE Q	-124699.00	1299.34	2631.29	0.00	78.54	11.64	172.58
112	1488.10	4	SLE Q	-119430.00	1008.98	2043.28	0.00	78.54	10.87	161.56
113	1547.62	4	SLE Q	-114167.00	760.00	1539.07	0.00	78.54	10.16	151.21
114	1607.14	4	SLE Q	-108911.00	549.99	1113.77	0.00	78.54	9.49	141.48
115	1666.67	4	SLE Q	-103660.00	376.23	761.89	0.00	78.54	8.86	132.33
116	1726.19	4	SLE Q	-98415.20	235.79	477.49	0.00	78.54	8.27	123.72
117	1785.71	4	SLE Q	-93175.40	125.59	254.34	0.00	78.54	7.72	115.59
118	1845.24	4	SLE Q	-87940.60	42.47	86.01	0.00	78.54	7.20	107.89
119	1904.76	4	SLE Q	-82710.50	-16.80	-34.03	0.00	78.54	6.74	101.11
120	1964.29	4	SLE Q	-77484.90	-55.47	-112.33	0.00	78.54	6.36	95.35
121	2023.81	4	SLE Q	-72263.40	-76.76	-155.44	0.00	78.54	5.96	89.33
122	2083.33	4	SLE Q	-67045.80	-83.88	-169.86	0.00	78.54	5.55	83.08
123	2142.86	4	SLE Q	-61831.80	-80.01	-162.02	0.00	78.54	5.12	76.66
124	2202.38	4	SLE Q	-56621.10	-68.29	-138.29	0.00	78.54	4.68	70.12
125	2261.90	4	SLE Q	-51413.40	-51.83	-104.96	0.00	78.54	4.24	63.51
126	2321.43	4	SLE Q	-46208.50	-33.72	-68.28	0.00	78.54	3.79	56.88
127	2380.95	4	SLE Q	-41006.10	-17.01	-34.45	0.00	78.54	3.35	50.27
128	2440.48	4	SLE Q	-35805.90	-4.76	-9.64	0.00	78.54	2.92	43.73
129	2500.00	4	SLE Q	-30607.60	0.00	0.00	0.00	78.54	2.49	37.32

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
7	SLU N cost - min. sic.
48	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
86	C.Rare - Sc max (min. compr.),C.Rare - Sf max (max traz.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
129	C.Q.Per. - Sc max (min. compr.),C.Q.Per. - Sf max (max traz.)

Palo n. 5

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 5 (-153)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	315619.00	6038.81	208.03	21458.00	10734.80

	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	315619.00	6038.81	208.03	21458.00	10734.80
2	2	SLE R	RVN	233792.00	4473.19	154.10	15894.80	7951.73
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	233792.00	4473.19	154.10	15894.80	7951.73
3	3	SLE F	RVN	233792.00	4473.19	154.10	15894.80	7951.73
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	233792.00	4473.19	154.10	15894.80	7951.73
4	4	SLE Q	RVN	233792.00	4473.19	154.10	15894.80	7951.73
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	233792.00	4473.19	154.10	15894.80	7951.73

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-315619.00	-6038.81	-208.03	-21458.00	-10734.80
2	2	SLE R	1	-233792.00	-4473.19	-154.10	-15894.80	-7951.73
3	3	SLE F	1	-233792.00	-4473.19	-154.10	-15894.80	-7951.73
4	4	SLE Q	1	-233792.00	-4473.19	-154.10	-15894.80	-7951.73

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-315619.00	21325.00	-10668.30	-2571250.00	233644.00	-115097.00	2-3	206.25	8.147
2	59.52	1	SLU	-314633.00	24144.90	-12079.10	-2571250.00	233380.00	-114970.00	2-3	206.25	8.172
3	119.05	1	SLU	-310989.00	26237.90	-13126.10	-2571250.00	232402.00	-114499.00	2-3	206.25	8.268
4	178.57	1	SLU	-307354.00	27698.80	-13857.00	-307354.00	231417.00	-114027.00	2-3	206.25	8.330
5	238.09	1	SLU	-303729.00	28616.60	-14316.10	-303729.00	230434.00	-113555.00	2-3	206.25	8.028
6	297.62	1	SLU	-300113.00	29073.70	-14544.80	-300113.00	229452.00	-113084.00	2-3	206.25	7.869
7	357.14	1	SLU	-296507.00	29108.50	-14562.20	-296507.00	228464.00	-112611.00	2-3	206.25	7.826
8	416.67	1	SLU	-289154.00	28648.20	-14331.90	-289154.00	226446.00	-111643.00	2-3	206.25	7.882
9	476.19	1	SLU	-281816.00	27753.70	-13884.40	-281816.00	224414.00	-110670.00	2-3	206.25	8.063
10	535.71	1	SLU	-274494.00	26520.30	-13267.40	-274494.00	222371.00	-109693.00	2-3	206.25	8.362
11	595.24	1	SLU	-267186.00	25031.90	-12522.80	-267186.00	220320.00	-108712.00	2-3	206.25	8.778
12	654.76	1	SLU	-259893.00	23362.20	-11687.50	-259893.00	218260.00	-107727.00	2-3	206.25	9.318
13	714.29	1	SLU	-252613.00	21574.70	-10793.20	-252613.00	216187.00	-106736.00	2-3	206.25	9.994
14	773.81	1	SLU	-245348.00	19723.60	-9867.18	-2571250.00	214106.00	-105741.00	2-3	206.25	10.480
15	833.33	1	SLU	-238095.00	17854.70	-8932.23	-2571250.00	212018.00	-104743.00	2-3	206.25	10.799
16	892.86	1	SLU	-230855.00	16005.80	-8007.26	-2571250.00	209919.00	-103740.00	2-3	206.25	11.138
17	952.38	1	SLU	-223628.00	14207.50	-7107.64	-2571250.00	207810.00	-102733.00	2-3	206.25	11.498
18	1011.90	1	SLU	-216412.00	12484.30	-6245.54	-2571250.00	205695.00	-101722.00	2-3	206.25	11.881
19	1071.43	1	SLU	-209208.00	10854.70	-5430.32	-2571250.00	203571.00	-100708.00	2-3	206.25	12.290
20	1130.95	1	SLU	-202016.00	9332.54	-4668.82	-2571250.00	201438.00	-99689.00	2-3	206.25	12.728
21	1190.48	1	SLU	-194834.00	7927.15	-3965.74	-2571250.00	199325.00	-98468.40	2-3	206.25	13.197
22	1250.00	1	SLU	-187662.00	6644.21	-3323.92	-2571250.00	197210.00	-97200.60	2-3	206.25	13.701
23	1309.52	1	SLU	-180501.00	5486.24	-2744.62	-2571250.00	195086.00	-95919.10	2-3	206.25	14.245
24	1369.05	1	SLU	-173349.00	4453.10	-2227.76	-2571250.00	192881.00	-94701.00	2-3	206.25	14.833
25	1428.57	1	SLU	-166207.00	3542.49	-1772.21	-2571250.00	190559.00	-93580.40	2-3	206.25	15.470
26	1488.10	1	SLU	-159074.00	2750.31	-1375.91	-2571250.00	188225.00	-92454.10	2-3	206.25	16.164
27	1547.62	1	SLU	-151949.00	2071.08	-1036.11	-2571250.00	185875.00	-91320.60	2-3	206.25	16.922
28	1607.14	1	SLU	-144832.00	1498.21	-749.51	-2571250.00	183512.00	-90181.20	2-3	206.25	17.753
29	1666.67	1	SLU	-137723.00	1024.29	-512.42	-2571250.00	181137.00	-89037.60	2-3	206.25	18.670
30	1726.19	1	SLU	-130621.00	641.31	-320.83	-2571250.00	178717.00	-87919.80	2-3	206.25	19.685
31	1785.71	1	SLU	-123527.00	340.86	-170.53	-2571250.00	176283.00	-86797.30	2-3	206.25	20.815
32	1845.24	1	SLU	-116439.00	114.28	-57.17	-2571250.00	173835.00	-85670.70	2-3	206.25	22.082
33	1904.76	1	SLU	-109357.00	-47.22	23.63	-2571250.00	-171508.00	84721.80	2-3	26.25	23.512
34	1964.29	1	SLU	-102281.00	-152.51	76.30	-2571250.00	-169194.00	83320.50	2-3	26.25	25.139
35	2023.81	1	SLU	-95210.80	-210.38	105.25	-2571250.00	-166873.00	81909.50	2-3	26.25	27.006
36	2083.33	1	SLU	-88145.50	-229.61	114.87	-2571250.00	-164354.00	80686.90	2-3	26.25	29.171
37	2142.86	1	SLU	-81085.00	-218.87	109.49	-2571250.00	-161816.00	79463.50	2-3	26.25	31.710
38	2202.38	1	SLU	-74028.80	-186.73	93.42	-2571250.00	-159262.00	78233.10	2-3	26.25	34.733
39	2261.90	1	SLU	-66976.60	-141.69	70.88	-2571250.00	-156693.00	76996.90	2-3	26.25	38.390
40	2321.43	1	SLU	-59928.00	-92.15	46.10	-2571250.00	-154111.00	75755.40	2-3	26.25	42.906
41	2380.95	1	SLU	-52882.60	-46.49	23.26	-2571250.00	-151516.00	74508.70	2-3	26.25	48.622
42	2440.48	1	SLU	-45840.00	-13.00	6.51	-2571250.00	-148908.00	73256.70	2-3	26.25	56.092
43	2500.00	1	SLU	-38799.90	0.00	0.00	-2571250.00					66.269

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6038.81	208.03	0.85	11.31	6042.39	1.00	32294.70	376877.00	32294.70	5.345
2	59.52	1	SLU	4581.12	157.82	0.85	11.31	4583.83	1.00	32294.70	376736.00	32294.70	7.045
3	119.05	1	SLU	3307.21	113.93	0.85	11.31	3309.18	1.00	32294.70	376214.00	32294.70	9.759
4	178.57	1	SLU	2206.05	76.00	0.85	11.31	2207.36	1.00	32294.70	375693.00	32294.70	14.630
5	238.09	1	SLU	1265.81	43.61	0.85	11.31	1266.56	1.00	32294.70	375174.00	32294.70	25.498
6	297.62	1	SLU	474.16	16.33	0.85	11.31	474.44	1.00	32294.70	374656.00	32294.70	68.070
7	357.14	1	SLU	-391.83	-13.50	0.85	11.31	392.06	1.00	32294.70	374140.00	32294.70	82.372
8	416.67	1	SLU	-1303.30	-44.90	0.85	11.31	1304.07	1.00	32294.70	373086.00	32294.70	24.765
9	476.19	1	SLU	-2025.51	-69.78	0.85	11.31	2026.71	1.00	32294.70	372035.00	32294.70	15.934
10	535.71	1	SLU	-2579.60	-88.86	0.85	11.31	2581.13	1.00	32294.70	370986.00	32294.70	12.512
11	595.24	1	SLU	-2985.89	-102.86	0.85	11.31	2987.66	1.00	32294.70	369940.00	32294.70	10.809
12	654.76	1	SLU	-3263.68	-112.43	0.85	11.31	3265.62	1.00	32294.70	368895.00	32294.70	9.889
13	714.29	1	SLU	-3431.09	-118.20	0.85	11.31	3433.12	1.00	32294.70	367852.00	32294.70	9.407
14	773.81	1	SLU	-3504.90	-120.74	0.85	11.31	3506.98	1.00	32294.70	366812.00	32294.70	9.209
15	833.33	1	SLU	-3500.58	-120.59	0.85	11.31	3502.66	1.00	32294.70	365773.00	32294.70	9.220
16	892.86	1	SLU	-3432.17	-118.23	0.85	11.31	3434.20	1.00	32294.70	364736.00	32294.70	9.404
17	952.38	1	SLU	-3312.31	-114.11	0.85	11.31	3314.28	1.00	32294.70	363700.00	32294.70	9.744
18	1011.90	1	SLU	-3152.30	-108.59	0.85	11.31	3154.17	1.00	32294.70	362667.00	32294.70	10.239
19	1071.43	1	SLU	-2962.09	-102.04	0.85	11.31	2963.85	1.00	32294.70	361635.00	32294.70	10.896
20	1130.95	1	SLU	-2750.41	-94.75	0.85	11.31	2752.04	1.00	32294.70	360605.00	32294.70	11.735
21	1190.48	1	SLU	-2524.77	-86.98	0.85	11.31	2526.27	1.00	32294.70	359576.00	32294.70	12.784
22	1250.00	1	SLU	-2291.62	-78.94	0.85	11.31	2292.98	1.00	32294.70	358549.00	32294.70	14.084
23	1309.52	1	SLU	-2056.38	-70.84	0.85	11.31	2057.60	1.00	32294.70	357523.00	32294.70	15.695
24	1369.05	1	SLU	-1823.57	-62.82	0.85	11.31	1824.65	1.00	32294.70	356499.00	32294.70	17.699
25	1428.57	1	SLU	-1596.88	-55.01	0.85	11.31	1597.83	1.00	32294.70	355475.00	32294.70	20.212
26	1488.10	1	SLU	-1379.29	-47.52	0.85	11.31	1380.11	1.00	32294.70	354454.00	32294.70	23.400
27	1547.62	1	SLU	-1173.14	-40.41	0.85	11.31	1173.83	1.00	32294.70	353433.00	32294.70	27.512
28	1607.14	1	SLU	-980.20	-33.77	0.85	11.31	980.78	1.00	32294.70	352414.00	32294.70	32.928
29	1666.67	1	SLU	-801.79	-27.62	0.85	11.31	802.27	1.00	32294.70	351395.00	32294.70	40.254
30	1726.19	1	SLU	-638.85	-22.01	0.85	11.31	639.23	1.00	32294.70	350378.00	32294.70	50.521
31	1785.71	1	SLU	-491.98	-16.95	0.85	11.31	492.27	1.00	32294.70	349362.00	32294.70	65.604
32	1845.24	1	SLU	-361.53	-12.45	0.85	11.31	361.75	1.00	32294.70	348347.00	32294.70	89.274
33	1904.76	1	SLU	-247.67	-8.53	0.85	11.31	247.82	1.00	32294.70	347332.00	32294.70	>100
34	1964.29	1	SLU	-150.41	-5.18	0.85	11.31	150.49	1.00	32294.70	346319.00	32294.70	>100
35	2023.81	1	SLU	-69.65	-2.40	0.85	11.31	69.69	1.00	32294.70	345306.00	32294.70	>100
36	2083.33	1	SLU	-5.27	-0.18	0.85	11.31	5.27	1.00	32294.70	344294.00	32294.70	>100
37	2142.86	1	SLU	42.92	1.48	0.85	11.31	42.95	1.00	32294.70	343283.00	32294.70	>100
38	2202.38	1	SLU	75.09	2.59	0.85	11.31	75.14	1.00	32294.70	342272.00	32294.70	>100
39	2261.90	1	SLU	91.40	3.15	0.85	11.31	91.46	1.00	32294.70	341262.00	32294.70	>100
40	2321.43	1	SLU	91.97	3.17	0.85	11.31	92.03	1.00	32294.70	340252.00	32294.70	>100
41	2380.95	1	SLU	76.90	2.65	0.85	11.31	76.94	1.00	32294.70	339243.00	32294.70	>100
42	2440.48	1	SLU	46.23	1.59	0.85	11.31	46.26	1.00	32294.70	338234.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-233792.00	-7902.44	15796.30	0.00	78.54	28.04	409.35
45	59.52	2	SLE R	-233375.00	-8947.45	17885.10	0.00	78.54	29.20	425.27
46	119.05	2	SLE R	-230865.00	-9723.04	19435.50	0.00	78.54	29.89	434.42
47	178.57	2	SLE R	-228363.00	-10264.40	20517.60	0.00	78.54	30.30	439.88
48	238.09	2	SLE R	-225868.00	-10604.50	21197.50	0.00	78.54	30.49	442.19
49	297.62	2	SLE R	-223380.00	-10773.90	21536.10	0.00	78.54	30.48	441.82
50	357.14	2	SLE R	-220899.00	-10786.80	21561.90	0.00	78.54	30.29	439.00
51	416.67	2	SLE R	-215467.00	-10616.20	21220.90	0.00	78.54	29.66	429.69
52	476.19	2	SLE R	-210047.00	-10284.80	20558.30	0.00	78.54	28.84	417.87
53	535.71	2	SLE R	-204639.00	-9827.67	19644.60	0.00	78.54	27.88	404.08
54	595.24	2	SLE R	-199241.00	-9276.12	18542.10	0.00	78.54	26.81	388.83
55	654.76	2	SLE R	-193854.00	-8657.37	17305.30	0.00	78.54	25.66	372.53
56	714.29	2	SLE R	-188477.00	-7994.97	15981.20	0.00	78.54	24.47	355.55
57	773.81	2	SLE R	-183111.00	-7309.02	14610.10	0.00	78.54	23.24	338.22
58	833.33	2	SLE R	-177754.00	-6616.46	13225.70	0.00	78.54	22.02	320.80
59	892.86	2	SLE R	-172407.00	-5931.30	11856.10	0.00	78.54	20.80	303.50
60	952.38	2	SLE R	-167069.00	-5264.92	10524.10	0.00	78.54	19.60	286.51
61	1011.90	2	SLE R	-161740.00	-4626.33	9247.61	0.00	78.54	18.44	269.97
62	1071.43	2	SLE R	-156420.00	-4022.46	8040.53	0.00	78.54	17.32	253.98
63	1130.95	2	SLE R	-151108.00	-3458.38	6913.00	0.00	78.54	16.24	238.63
64	1190.48	2	SLE R	-145804.00	-2937.58	5871.97	0.00	78.54	15.21	223.98
65	1250.00	2	SLE R	-140509.00	-2462.16	4921.64	0.00	78.54	14.24	210.04
66	1309.52	2	SLE R	-135220.00	-2033.05	4063.88	0.00	78.54	13.32	196.84
67	1369.05	2	SLE R	-129939.00	-1650.20	3298.59	0.00	78.54	12.45	184.38
68	1428.57	2	SLE R	-124665.00	-1312.75	2624.06	0.00	78.54	11.63	172.65
69	1488.10	2	SLE R	-119397.00	-1019.19	2037.27	0.00	78.54	10.87	161.60
70	1547.62	2	SLE R	-114136.00	-767.49	1534.14	0.00	78.54	10.16	151.23
71	1607.14	2	SLE R	-108881.00	-555.20	1109.79	0.00	78.54	9.49	141.49
72	1666.67	2	SLE R	-103632.00	-379.57	758.73	0.00	78.54	8.86	132.32

73	1726.19	2	SLE R	-98388.80	-237.65	475.05	0.00	78.54	8.27	123.70
74	1785.71	2	SLE R	-93150.50	-126.31	252.49	0.00	78.54	7.72	115.56
75	1845.24	2	SLE R	-87917.20	-42.35	84.66	0.00	78.54	7.19	107.86
76	1904.76	2	SLE R	-82688.70	17.50	-34.98	0.00	78.54	6.74	101.09
77	1964.29	2	SLE R	-77464.60	56.52	-112.97	0.00	78.54	6.36	95.33
78	2023.81	2	SLE R	-72244.60	77.96	-155.84	0.00	78.54	5.96	89.30
79	2083.33	2	SLE R	-67028.50	85.09	-170.09	0.00	78.54	5.55	83.06
80	2142.86	2	SLE R	-61816.00	81.11	-162.13	0.00	78.54	5.12	76.64
81	2202.38	2	SLE R	-56606.80	69.20	-138.32	0.00	78.54	4.68	70.10
82	2261.90	2	SLE R	-51400.70	52.51	-104.95	0.00	78.54	4.24	63.49
83	2321.43	2	SLE R	-46197.30	34.15	-68.26	0.00	78.54	3.79	56.86
84	2380.95	2	SLE R	-40996.40	17.23	-34.43	0.00	78.54	3.35	50.25
85	2440.48	2	SLE R	-35797.70	4.82	-9.63	0.00	78.54	2.92	43.72
86	2500.00	2	SLE R	-30600.90	0.00	0.00	0.00	78.54	2.49	37.31
87	0.00	4	SLE Q	-233792.00	-7902.44	15796.30	0.00	78.54	28.04	409.35
88	59.52	4	SLE Q	-233375.00	-8947.45	17885.10	0.00	78.54	29.20	425.27
89	119.05	4	SLE Q	-230865.00	-9723.04	19435.50	0.00	78.54	29.89	434.42
90	178.57	4	SLE Q	-228363.00	-10264.40	20517.60	0.00	78.54	30.30	439.88
91	238.09	4	SLE Q	-225868.00	-10604.50	21197.50	0.00	78.54	30.49	442.19
92	297.62	4	SLE Q	-223380.00	-10773.90	21536.10	0.00	78.54	30.48	441.82
93	357.14	4	SLE Q	-220899.00	-10786.80	21561.90	0.00	78.54	30.29	439.00
94	416.67	4	SLE Q	-215467.00	-10616.20	21220.90	0.00	78.54	29.66	429.69
95	476.19	4	SLE Q	-210047.00	-10284.80	20558.30	0.00	78.54	28.84	417.87
96	535.71	4	SLE Q	-204639.00	-9827.67	19644.60	0.00	78.54	27.88	404.08
97	595.24	4	SLE Q	-199241.00	-9276.12	18542.10	0.00	78.54	26.81	388.83
98	654.76	4	SLE Q	-193854.00	-8657.37	17305.30	0.00	78.54	25.66	372.53
99	714.29	4	SLE Q	-188477.00	-7994.97	15981.20	0.00	78.54	24.47	355.55
100	773.81	4	SLE Q	-183111.00	-7309.02	14610.10	0.00	78.54	23.24	338.22
101	833.33	4	SLE Q	-177754.00	-6616.46	13225.70	0.00	78.54	22.02	320.80
102	892.86	4	SLE Q	-172407.00	-5931.30	11856.10	0.00	78.54	20.80	303.50
103	952.38	4	SLE Q	-167069.00	-5264.92	10524.10	0.00	78.54	19.60	286.51
104	1011.90	4	SLE Q	-161740.00	-4626.33	9247.61	0.00	78.54	18.44	269.97
105	1071.43	4	SLE Q	-156420.00	-4022.46	8040.53	0.00	78.54	17.32	253.98
106	1130.95	4	SLE Q	-151108.00	-3458.38	6913.00	0.00	78.54	16.24	238.63
107	1190.48	4	SLE Q	-145804.00	-2937.58	5871.97	0.00	78.54	15.21	223.98
108	1250.00	4	SLE Q	-140509.00	-2462.16	4921.64	0.00	78.54	14.24	210.04
109	1309.52	4	SLE Q	-135220.00	-2033.05	4063.88	0.00	78.54	13.32	196.84
110	1369.05	4	SLE Q	-129939.00	-1650.20	3298.59	0.00	78.54	12.45	184.38
111	1428.57	4	SLE Q	-124665.00	-1312.75	2624.06	0.00	78.54	11.63	172.65
112	1488.10	4	SLE Q	-119397.00	-1019.19	2037.27	0.00	78.54	10.87	161.60
113	1547.62	4	SLE Q	-114136.00	-767.49	1534.14	0.00	78.54	10.16	151.23
114	1607.14	4	SLE Q	-108881.00	-555.20	1109.79	0.00	78.54	9.49	141.49
115	1666.67	4	SLE Q	-103632.00	-379.57	758.73	0.00	78.54	8.86	132.32
116	1726.19	4	SLE Q	-98388.80	-237.65	475.05	0.00	78.54	8.27	123.70
117	1785.71	4	SLE Q	-93150.50	-126.31	252.49	0.00	78.54	7.72	115.56
118	1845.24	4	SLE Q	-87917.20	-42.35	84.66	0.00	78.54	7.19	107.86
119	1904.76	4	SLE Q	-82688.70	17.50	-34.98	0.00	78.54	6.74	101.09
120	1964.29	4	SLE Q	-77464.60	56.52	-112.97	0.00	78.54	6.36	95.33
121	2023.81	4	SLE Q	-72244.60	77.96	-155.84	0.00	78.54	5.96	89.30
122	2083.33	4	SLE Q	-67028.50	85.09	-170.09	0.00	78.54	5.55	83.06
123	2142.86	4	SLE Q	-61816.00	81.11	-162.13	0.00	78.54	5.12	76.64
124	2202.38	4	SLE Q	-56606.80	69.20	-138.32	0.00	78.54	4.68	70.10
125	2261.90	4	SLE Q	-51400.70	52.51	-104.95	0.00	78.54	4.24	63.49
126	2321.43	4	SLE Q	-46197.30	34.15	-68.26	0.00	78.54	3.79	56.86
127	2380.95	4	SLE Q	-40996.40	17.23	-34.43	0.00	78.54	3.35	50.25
128	2440.48	4	SLE Q	-35797.70	4.82	-9.63	0.00	78.54	2.92	43.72
129	2500.00	4	SLE Q	-30600.90	0.00	0.00	0.00	78.54	2.49	37.31

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
7	SLU N cost - min. sic.
48	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
86	C.Rare - Sc max (min. compr.),C.Rare - Sf max (max traz.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
129	C.Q.Per. - Sc max (min. compr.),C.Q.Per. - Sf max (max traz.)

Palo n. 6

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 6 (-139)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	274241.00	6270.22	558.54	37079.00	24873.20
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	274241.00	6270.22	558.54	37079.00	24873.20
2	2	SLE R	RVN	203142.00	4644.61	413.73	27465.90	18424.60
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	203142.00	4644.61	413.73	27465.90	18424.60
3	3	SLE F	RVN	203142.00	4644.61	413.73	27465.90	18424.60
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	203142.00	4644.61	413.73	27465.90	18424.60
4	4	SLE Q	RVN	203142.00	4644.61	413.73	27465.90	18424.60
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	203142.00	4644.61	413.73	27465.90	18424.60

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-274241.00	-6270.22	-558.54	-37079.00	-24873.20
2	2	SLE R	1	-203142.00	-4644.61	-413.73	-27465.90	-18424.60
3	3	SLE F	1	-203142.00	-4644.61	-413.73	-27465.90	-18424.60
4	4	SLE Q	1	-203142.00	-4644.61	-413.73	-27465.90	-18424.60

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-274241.00	36912.70	-24761.70	-274241.00	206383.00	-137991.00	2-3	213.75	5.585
2	59.52	1	SLU	-273543.00	39526.40	-26515.00	-273543.00	206211.00	-137860.00	2-3	213.75	5.212
3	119.05	1	SLU	-270473.00	41234.30	-27660.70	-270473.00	205453.00	-137285.00	2-3	213.75	4.977
4	178.57	1	SLU	-267411.00	42164.70	-28284.80	-267411.00	204693.00	-136708.00	2-3	213.75	4.848
5	238.09	1	SLU	-264357.00	42436.50	-28467.20	-264357.00	203934.00	-136131.00	2-3	213.75	4.798
6	297.62	1	SLU	-261311.00	42158.80	-28280.90	-261311.00	203176.00	-135554.00	2-3	213.75	4.811
7	357.14	1	SLU	-258274.00	41388.20	-27763.90	-258274.00	202418.00	-134978.00	2-3	213.75	4.882
8	416.67	1	SLU	-251893.00	40052.80	-26868.10	-251893.00	200749.00	-133806.00	2-3	213.75	5.002
9	476.19	1	SLU	-245525.00	38236.00	-25649.40	-245525.00	198983.00	-132682.00	2-3	213.75	5.194
10	535.71	1	SLU	-239170.00	36058.20	-24188.50	-239170.00	197219.00	-131530.00	2-3	213.75	5.460
11	595.24	1	SLU	-232828.00	33624.80	-22556.10	-232828.00	195442.00	-130371.00	2-3	213.75	5.802
12	654.76	1	SLU	-226499.00	31026.70	-20813.20	-226499.00	193660.00	-129209.00	2-3	213.75	6.231
13	714.29	1	SLU	-220182.00	28341.40	-19011.90	-220182.00	191871.00	-128044.00	2-3	213.75	6.759
14	773.81	1	SLU	-213876.00	25634.20	-17195.80	-213876.00	190071.00	-126872.00	2-3	213.75	7.403
15	833.33	1	SLU	-207582.00	22958.90	-15401.20	-207582.00	188267.00	-125698.00	2-3	213.75	8.188
16	892.86	1	SLU	-201300.00	20359.20	-13657.30	-201300.00	186455.00	-124520.00	2-3	213.75	9.146
17	952.38	1	SLU	-195028.00	17869.70	-11987.30	-195028.00	184634.00	-123337.00	2-3	213.75	10.319
18	1011.90	1	SLU	-188766.00	15516.90	-10409.00	-188766.00	182808.00	-122152.00	2-3	213.75	11.767
19	1071.43	1	SLU	-182515.00	13320.10	-8935.34	-182515.00	180973.00	-120962.00	2-3	213.75	13.571
20	1130.95	1	SLU	-176273.00	11292.40	-7575.12	-2571250.00	179131.00	-119769.00	2-3	213.75	14.587
21	1190.48	1	SLU	-170041.00	9441.67	-6333.64	-2571250.00	177284.00	-118573.00	2-3	213.75	15.121
22	1250.00	1	SLU	-163818.00	7771.32	-5213.14	-2571250.00	175427.00	-117373.00	2-3	213.75	15.696
23	1309.52	1	SLU	-157604.00	6280.94	-4213.37	-2571250.00	173565.00	-116171.00	2-3	213.75	16.315
24	1369.05	1	SLU	-151398.00	4967.03	-3331.97	-2571250.00	171696.00	-114966.00	2-3	213.75	16.983
25	1428.57	1	SLU	-145200.00	3823.60	-2564.94	-2571250.00	169819.00	-113758.00	2-3	213.75	17.708
26	1488.10	1	SLU	-139011.00	2842.70	-1906.93	-2571250.00	167938.00	-112548.00	2-3	213.75	18.497
27	1547.62	1	SLU	-132828.00	2014.83	-1351.58	-2571250.00	166047.00	-111335.00	2-3	213.75	19.358
28	1607.14	1	SLU	-126653.00	1329.38	-891.77	-2571250.00	164151.00	-110119.00	2-3	213.75	20.302
29	1666.67	1	SLU	-120484.00	774.95	-519.85	-2571250.00	162250.00	-108902.00	2-3	213.75	21.341
30	1726.19	1	SLU	-114322.00	339.60	-227.81	-2571250.00	160360.00	-107623.00	2-3	213.75	22.491
31	1785.71	1	SLU	-108166.00	11.07	-7.43	-2571250.00	158514.00	-106180.00	2-3	213.75	23.771
32	1845.24	1	SLU	-102016.00	-223.00	149.59	-2571250.00	-156472.00	104669.00	2-3	33.75	25.204
33	1904.76	1	SLU	-95871.60	-375.00	251.56	-2571250.00	-154461.00	103379.00	2-3	33.75	26.820
34	1964.29	1	SLU	-89732.10	-457.21	306.71	-2571250.00	-152445.00	102085.00	2-3	33.75	28.655
35	2023.81	1	SLU	-83597.50	-481.77	323.18	-2571250.00	-150422.00	100788.00	2-3	33.75	30.758
36	2083.33	1	SLU	-77467.30	-460.62	308.99	-2571250.00	-148389.00	99485.10	2-3	33.75	33.191

37	2142.86	1	SLU	-71341.20	-405.51	272.03	-2571250.00	-146352.00	98179.00	2-3	33.75	36.041
38	2202.38	1	SLU	-65219.00	-328.03	220.05	-2571250.00	-144308.00	96868.10	2-3	33.75	39.425
39	2261.90	1	SLU	-59100.30	-239.56	160.70	-2571250.00	-142256.00	95553.10	2-3	33.75	43.507
40	2321.43	1	SLU	-52984.80	-151.38	101.55	-2571250.00	-140201.00	94234.70	2-3	33.75	48.528
41	2380.95	1	SLU	-46872.10	-74.66	50.08	-2571250.00	-138136.00	92911.80	2-3	33.75	54.857
42	2440.48	1	SLU	-40761.90	-20.51	13.76	-2571250.00	-136067.00	91585.80	2-3	33.75	63.080
43	2500.00	1	SLU	-34653.90	0.00	0.00	-2571250.00					74.198

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6270.22	558.54	0.85	11.31	6295.05	1.00	32294.70	370950.00	32294.70	5.130
2	59.52	1	SLU	4309.24	383.86	0.85	11.31	4326.30	1.00	32294.70	370850.00	32294.70	7.465
3	119.05	1	SLU	2616.50	233.07	0.85	11.31	2626.86	1.00	32294.70	370410.00	32294.70	12.294
4	178.57	1	SLU	1173.02	104.49	0.85	11.31	1177.66	1.00	32294.70	369972.00	32294.70	27.423
5	238.09	1	SLU	-40.83	-3.64	0.85	11.31	40.99	1.00	32294.70	369534.00	32294.70	>100
6	297.62	1	SLU	-1044.91	-93.08	0.85	11.31	1049.04	1.00	32294.70	369098.00	32294.70	30.785
7	357.14	1	SLU	-2116.79	-188.56	0.85	11.31	2125.17	1.00	32294.70	368663.00	32294.70	15.196
8	416.67	1	SLU	-3218.98	-286.74	0.85	11.31	3231.72	1.00	32294.70	367749.00	32294.70	9.993
9	476.19	1	SLU	-4062.45	-361.88	0.85	11.31	4078.54	1.00	32294.70	366837.00	32294.70	7.918
10	535.71	1	SLU	-4678.68	-416.77	0.85	11.31	4697.21	1.00	32294.70	365927.00	32294.70	6.875
11	595.24	1	SLU	-5097.52	-454.08	0.85	11.31	5117.70	1.00	32294.70	365018.00	32294.70	6.310
12	654.76	1	SLU	-5346.94	-476.30	0.85	11.31	5368.12	1.00	32294.70	364112.00	32294.70	6.016
13	714.29	1	SLU	-5452.92	-485.74	0.85	11.31	5474.51	1.00	32294.70	363207.00	32294.70	5.899
14	773.81	1	SLU	-5439.26	-484.52	0.85	11.31	5460.80	1.00	32294.70	362304.00	32294.70	5.914
15	833.33	1	SLU	-5327.63	-474.58	0.85	11.31	5348.72	1.00	32294.70	361402.00	32294.70	6.038
16	892.86	1	SLU	-5137.50	-457.64	0.85	11.31	5157.85	1.00	32294.70	360502.00	32294.70	6.261
17	952.38	1	SLU	-4886.26	-435.26	0.85	11.31	4905.60	1.00	32294.70	359604.00	32294.70	6.583
18	1011.90	1	SLU	-4589.20	-408.80	0.85	11.31	4607.37	1.00	32294.70	358707.00	32294.70	7.009
19	1071.43	1	SLU	-4259.72	-379.45	0.85	11.31	4276.58	1.00	32294.70	357811.00	32294.70	7.552
20	1130.95	1	SLU	-3909.34	-348.24	0.85	11.31	3924.82	1.00	32294.70	356917.00	32294.70	8.228
21	1190.48	1	SLU	-3547.92	-316.04	0.85	11.31	3561.97	1.00	32294.70	356025.00	32294.70	9.067
22	1250.00	1	SLU	-3183.76	-283.60	0.85	11.31	3196.36	1.00	32294.70	355133.00	32294.70	10.104
23	1309.52	1	SLU	-2823.71	-251.53	0.85	11.31	2834.89	1.00	32294.70	354243.00	32294.70	11.392
24	1369.05	1	SLU	-2473.41	-220.33	0.85	11.31	2483.20	1.00	32294.70	353354.00	32294.70	13.005
25	1428.57	1	SLU	-2137.32	-190.39	0.85	11.31	2145.78	1.00	32294.70	352467.00	32294.70	15.050
26	1488.10	1	SLU	-1818.95	-162.03	0.85	11.31	1826.15	1.00	32294.70	351580.00	32294.70	17.685
27	1547.62	1	SLU	-1520.95	-135.48	0.85	11.31	1526.97	1.00	32294.70	350694.00	32294.70	21.149
28	1607.14	1	SLU	-1245.24	-110.92	0.85	11.31	1250.17	1.00	32294.70	349810.00	32294.70	25.832
29	1666.67	1	SLU	-993.14	-88.47	0.85	11.31	997.08	1.00	32294.70	348926.00	32294.70	32.389
30	1726.19	1	SLU	-765.47	-68.19	0.85	11.31	768.50	1.00	32294.70	348044.00	32294.70	42.023
31	1785.71	1	SLU	-562.66	-50.12	0.85	11.31	564.89	1.00	32294.70	347162.00	32294.70	57.170
32	1845.24	1	SLU	-384.82	-34.28	0.85	11.31	386.35	1.00	32294.70	346281.00	32294.70	83.590
33	1904.76	1	SLU	-231.86	-20.65	0.85	11.31	232.78	1.00	32294.70	345401.00	32294.70	>100
34	1964.29	1	SLU	-103.52	-9.22	0.85	11.31	103.93	1.00	32294.70	344521.00	32294.70	>100
35	2023.81	1	SLU	0.55	0.05	0.85	11.31	0.55	1.00	32294.70	343643.00	32294.70	>100
36	2083.33	1	SLU	80.74	7.19	0.85	11.31	81.06	1.00	32294.70	342764.00	32294.70	>100
37	2142.86	1	SLU	137.44	12.24	0.85	11.31	137.98	1.00	32294.70	341887.00	32294.70	>100
38	2202.38	1	SLU	171.00	15.23	0.85	11.31	171.68	1.00	32294.70	341010.00	32294.70	>100
39	2261.90	1	SLU	181.74	16.19	0.85	11.31	182.46	1.00	32294.70	340134.00	32294.70	>100
40	2321.43	1	SLU	169.88	15.13	0.85	11.31	170.55	1.00	32294.70	339258.00	32294.70	>100
41	2380.95	1	SLU	135.58	12.08	0.85	11.31	136.11	1.00	32294.70	338382.00	32294.70	>100
42	2440.48	1	SLU	78.94	7.03	0.85	11.31	79.25	1.00	32294.70	337507.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-203142.00	-18342.00	27342.80	0.00	78.54	33.54	478.30
45	59.52	2	SLE R	-202938.00	-19640.80	29278.80	3.14	75.40	34.76	494.70
46	119.05	2	SLE R	-200853.00	-20489.40	30543.90	9.42	69.11	35.43	503.52
47	178.57	2	SLE R	-198775.00	-20951.70	31233.10	9.42	69.11	35.74	507.46
48	238.09	2	SLE R	-196703.00	-21086.80	31434.50	12.57	65.97	35.73	507.06
49	297.62	2	SLE R	-194638.00	-20948.80	31228.80	12.57	65.97	35.44	502.89
50	357.14	2	SLE R	-192578.00	-20565.90	30657.90	9.42	69.11	34.90	495.33
51	416.67	2	SLE R	-187866.00	-19902.30	29668.70	9.42	69.11	33.88	481.00
52	476.19	2	SLE R	-183165.00	-18999.50	28322.90	9.42	69.11	32.62	463.42
53	535.71	2	SLE R	-178473.00	-17917.40	26709.80	9.42	69.11	31.19	443.55
54	595.24	2	SLE R	-173791.00	-16708.20	24907.30	0.00	78.54	29.66	422.20
55	654.76	2	SLE R	-169118.00	-15417.20	22982.70	0.00	78.54	28.06	400.05
56	714.29	2	SLE R	-164454.00	-14082.90	20993.60	0.00	78.54	26.44	377.57
57	773.81	2	SLE R	-159799.00	-12737.70	18988.30	0.00	78.54	24.82	354.98
58	833.33	2	SLE R	-155152.00	-11408.30	17006.60	0.00	78.54	23.20	332.60
59	892.86	2	SLE R	-150514.00	-10116.50	15080.90	0.00	78.54	21.63	310.70
60	952.38	2	SLE R	-145884.00	-8879.50	13236.80	0.00	78.54	20.10	289.51
61	1011.90	2	SLE R	-141262.00	-7710.38	11494.00	0.00	78.54	18.64	269.17
62	1071.43	2	SLE R	-136647.00	-6618.77	9866.72	0.00	78.54	17.25	249.82
63	1130.95	2	SLE R	-132040.00	-5611.20	8364.72	0.00	78.54	15.94	231.54

64	1190.48	2	SLE R	-127440.00	-4691.58	6993.83	0.00	78.54	14.71	214.37
65	1250.00	2	SLE R	-122846.00	-3861.59	5756.54	0.00	78.54	13.57	198.33
66	1309.52	2	SLE R	-118259.00	-3121.01	4652.55	0.00	78.54	12.51	183.43
67	1369.05	2	SLE R	-113679.00	-2468.13	3679.28	0.00	78.54	11.53	169.63
68	1428.57	2	SLE R	-109104.00	-1899.96	2832.30	0.00	78.54	10.63	156.91
69	1488.10	2	SLE R	-104536.00	-1412.54	2105.70	0.00	78.54	9.81	145.21
70	1547.62	2	SLE R	-99973.00	-1001.17	1492.46	0.00	78.54	9.06	134.48
71	1607.14	2	SLE R	-95415.50	-660.57	984.73	0.00	78.54	8.37	124.64
72	1666.67	2	SLE R	-90863.00	-385.08	574.04	0.00	78.54	7.74	115.63
73	1726.19	2	SLE R	-86315.40	-168.75	251.55	0.00	78.54	7.17	107.36
74	1785.71	2	SLE R	-81772.50	-5.50	8.20	0.00	78.54	6.65	99.77
75	1845.24	2	SLE R	-77233.90	110.81	-165.19	0.00	78.54	6.38	95.57
76	1904.76	2	SLE R	-72699.50	186.34	-277.78	0.00	78.54	6.08	90.99
77	1964.29	2	SLE R	-68169.00	227.19	-338.68	0.00	78.54	5.75	85.98
78	2023.81	2	SLE R	-63642.10	239.39	-356.87	0.00	78.54	5.40	80.62
79	2083.33	2	SLE R	-59118.70	228.88	-341.20	0.00	78.54	5.02	74.97
80	2142.86	2	SLE R	-54598.40	201.50	-300.38	0.00	78.54	4.63	69.11
81	2202.38	2	SLE R	-50081.10	163.00	-242.98	0.00	78.54	4.22	63.12
82	2261.90	2	SLE R	-45566.40	119.04	-177.45	0.00	78.54	3.81	57.06
83	2321.43	2	SLE R	-41054.20	75.22	-112.13	0.00	78.54	3.41	51.01
84	2380.95	2	SLE R	-36544.20	37.10	-55.30	0.00	78.54	3.00	45.02
85	2440.48	2	SLE R	-32036.10	10.19	-15.19	0.00	78.54	2.61	39.19
86	2500.00	2	SLE R	-27529.80	0.00	0.00	0.00	78.54	2.24	33.57
87	0.00	4	SLE Q	-203142.00	-18342.00	27342.80	0.00	78.54	33.54	478.30
88	59.52	4	SLE Q	-202938.00	-19640.80	29278.80	3.14	75.40	34.76	494.70
89	119.05	4	SLE Q	-200853.00	-20489.40	30543.90	9.42	69.11	35.43	503.52
90	178.57	4	SLE Q	-198775.00	-20951.70	31233.10	9.42	69.11	35.74	507.46
91	238.09	4	SLE Q	-196703.00	-21086.80	31434.50	12.57	65.97	35.73	507.06
92	297.62	4	SLE Q	-194638.00	-20948.80	31228.80	12.57	65.97	35.44	502.89
93	357.14	4	SLE Q	-192578.00	-20565.90	30657.90	9.42	69.11	34.90	495.33
94	416.67	4	SLE Q	-187866.00	-19902.30	29668.70	9.42	69.11	33.88	481.00
95	476.19	4	SLE Q	-183165.00	-18999.50	28322.90	9.42	69.11	32.62	463.42
96	535.71	4	SLE Q	-178473.00	-17917.40	26709.80	9.42	69.11	31.19	443.55
97	595.24	4	SLE Q	-173791.00	-16708.20	24907.30	0.00	78.54	29.66	422.20
98	654.76	4	SLE Q	-169118.00	-15417.20	22982.70	0.00	78.54	28.06	400.05
99	714.29	4	SLE Q	-164454.00	-14082.90	20993.60	0.00	78.54	26.44	377.57
100	773.81	4	SLE Q	-159799.00	-12737.70	18988.30	0.00	78.54	24.82	354.98
101	833.33	4	SLE Q	-155152.00	-11408.30	17006.60	0.00	78.54	23.20	332.60
102	892.86	4	SLE Q	-150514.00	-10116.50	15080.90	0.00	78.54	21.63	310.70
103	952.38	4	SLE Q	-145884.00	-8879.50	13236.80	0.00	78.54	20.10	289.51
104	1011.90	4	SLE Q	-141262.00	-7710.38	11494.00	0.00	78.54	18.64	269.17
105	1071.43	4	SLE Q	-136647.00	-6618.77	9866.72	0.00	78.54	17.25	249.82
106	1130.95	4	SLE Q	-132040.00	-5611.20	8364.72	0.00	78.54	15.94	231.54
107	1190.48	4	SLE Q	-127440.00	-4691.58	6993.83	0.00	78.54	14.71	214.37
108	1250.00	4	SLE Q	-122846.00	-3861.59	5756.54	0.00	78.54	13.57	198.33
109	1309.52	4	SLE Q	-118259.00	-3121.01	4652.55	0.00	78.54	12.51	183.43
110	1369.05	4	SLE Q	-113679.00	-2468.13	3679.28	0.00	78.54	11.53	169.63
111	1428.57	4	SLE Q	-109104.00	-1899.96	2832.30	0.00	78.54	10.63	156.91
112	1488.10	4	SLE Q	-104536.00	-1412.54	2105.70	0.00	78.54	9.81	145.21
113	1547.62	4	SLE Q	-99973.00	-1001.17	1492.46	0.00	78.54	9.06	134.48
114	1607.14	4	SLE Q	-95415.50	-660.57	984.73	0.00	78.54	8.37	124.64
115	1666.67	4	SLE Q	-90863.00	-385.08	574.04	0.00	78.54	7.74	115.63
116	1726.19	4	SLE Q	-86315.40	-168.75	251.55	0.00	78.54	7.17	107.36
117	1785.71	4	SLE Q	-81772.50	-5.50	8.20	0.00	78.54	6.65	99.77
118	1845.24	4	SLE Q	-77233.90	110.81	-165.19	0.00	78.54	6.38	95.57
119	1904.76	4	SLE Q	-72699.50	186.34	-277.78	0.00	78.54	6.08	90.99
120	1964.29	4	SLE Q	-68169.00	227.19	-338.68	0.00	78.54	5.75	85.98
121	2023.81	4	SLE Q	-63642.10	239.39	-356.87	0.00	78.54	5.40	80.62
122	2083.33	4	SLE Q	-59118.70	228.88	-341.20	0.00	78.54	5.02	74.97
123	2142.86	4	SLE Q	-54598.40	201.50	-300.38	0.00	78.54	4.63	69.11
124	2202.38	4	SLE Q	-50081.10	163.00	-242.98	0.00	78.54	4.22	63.12
125	2261.90	4	SLE Q	-45566.40	119.04	-177.45	0.00	78.54	3.81	57.06
126	2321.43	4	SLE Q	-41054.20	75.22	-112.13	0.00	78.54	3.41	51.01
127	2380.95	4	SLE Q	-36544.20	37.10	-55.30	0.00	78.54	3.00	45.02
128	2440.48	4	SLE Q	-32036.10	10.19	-15.19	0.00	78.54	2.61	39.19
129	2500.00	4	SLE Q	-27529.80	0.00	0.00	0.00	78.54	2.24	33.57

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
47	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
49	C.Rare - Sf max (max traz.)
56	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
92	C.Q.Per. - Sf max (max traz.)
99	C.Q.Per. - Sc max (min. compr.)

Palo n. 7

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 7 (-105)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	204511.00	6649.98	719.13	55915.30	22826.90
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	204511.00	6649.98	719.13	55915.30	22826.90
2	2	SLE R	RVN	151490.00	4925.91	532.69	41418.70	16908.80
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	151490.00	4925.91	532.69	41418.70	16908.80
3	3	SLE F	RVN	151490.00	4925.91	532.69	41418.70	16908.80
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	151490.00	4925.91	532.69	41418.70	16908.80
4	4	SLE Q	RVN	151490.00	4925.91	532.69	41418.70	16908.80
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	151490.00	4925.91	532.69	41418.70	16908.80

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-204511.00	-6649.98	-719.13	-55915.30	-22826.90
2	2	SLE R	1	-151490.00	-4925.91	-532.69	-41418.70	-16908.80
3	3	SLE F	1	-151490.00	-4925.91	-532.69	-41418.70	-16908.80
4	4	SLE Q	1	-151490.00	-4925.91	-532.69	-41418.70	-16908.80

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-204511.00	55690.80	-22735.30	-204511.00	208420.00	-86103.60	2-3	202.50	3.749
2	59.52	1	SLU	-204298.00	58702.80	-23964.90	-204298.00	208351.00	-86080.20	2-3	202.50	3.555
3	119.05	1	SLU	-202194.00	60492.90	-24695.70	-202194.00	207670.00	-85848.40	2-3	202.50	3.439
4	178.57	1	SLU	-200097.00	61240.20	-25000.80	-200097.00	206990.00	-85617.00	2-3	202.50	3.386
5	238.09	1	SLU	-198006.00	61109.60	-24947.50	-198006.00	206313.00	-85385.80	2-3	202.50	3.383
6	297.62	1	SLU	-195922.00	60251.70	-24597.20	-195922.00	205635.00	-85155.20	2-3	202.50	3.420
7	357.14	1	SLU	-193843.00	58747.70	-23983.20	-193843.00	204956.00	-84925.10	2-3	202.50	3.496
8	416.67	1	SLU	-189099.00	56511.80	-23070.50	-189099.00	203406.00	-84398.50	2-3	202.50	3.608
9	476.19	1	SLU	-184365.00	53660.40	-21906.40	-184365.00	201852.00	-83871.60	2-3	202.50	3.771
10	535.71	1	SLU	-179642.00	50357.30	-20557.90	-179642.00	200294.00	-83344.20	2-3	202.50	3.989
11	595.24	1	SLU	-174927.00	46744.60	-19083.10	-174927.00	198735.00	-82800.50	2-3	202.50	4.264
12	654.76	1	SLU	-170223.00	42944.80	-17531.80	-170223.00	197172.00	-82242.20	2-3	202.50	4.606
13	714.29	1	SLU	-165527.00	39061.40	-15946.50	-165527.00	195607.00	-81683.30	2-3	202.50	5.024
14	773.81	1	SLU	-160840.00	35181.00	-14362.30	-160840.00	194038.00	-81124.20	2-3	202.50	5.535
15	833.33	1	SLU	-156162.00	31374.60	-12808.40	-156162.00	193271.00	-78318.10	2-3	201.88	6.154
16	892.86	1	SLU	-151492.00	27699.10	-11307.90	-151492.00	191694.00	-77763.50	2-3	201.88	6.914
17	952.38	1	SLU	-146830.00	24199.20	-9879.12	-146830.00	189335.00	-79194.40	2-3	202.50	7.852
18	1011.90	1	SLU	-142177.00	20908.20	-8535.61	-142177.00	187764.00	-78461.80	2-3	202.50	9.011
19	1071.43	1	SLU	-137530.00	17850.10	-7287.14	-137530.00	186193.00	-77730.30	2-3	202.50	10.465
20	1130.95	1	SLU	-132892.00	15040.20	-6140.03	-132892.00	184616.00	-76991.50	2-3	202.50	12.313
21	1190.48	1	SLU	-128260.00	12487.00	-5097.72	-128260.00	183038.00	-76254.20	2-3	202.50	14.701
22	1250.00	1	SLU	-123635.00	10193.00	-4161.20	-123635.00	181454.00	-75509.20	2-3	202.50	17.851
23	1309.52	1	SLU	-119017.00	8155.54	-3329.43	-2571250.00	179870.00	-74765.90	2-3	202.50	21.604
24	1369.05	1	SLU	-114405.00	6368.06	-2599.71	-2571250.00	178279.00	-74015.20	2-3	202.50	22.475
25	1428.57	1	SLU	-109800.00	4820.71	-1968.01	-2571250.00	176689.00	-73265.80	2-3	202.50	23.418
26	1488.10	1	SLU	-105200.00	3501.10	-1429.30	-2571250.00	175092.00	-72509.60	2-3	202.50	24.442
27	1547.62	1	SLU	-100606.00	2394.95	-977.72	-2571250.00	173495.00	-71754.00	2-3	202.50	25.558

28	1607.14	1	SLU	-96017.00	1486.55	-606.87	-2571250.00	171893.00	-70992.90	2-3	202.50	26.779
29	1666.67	1	SLU	-91433.40	759.29	-309.97	-2571250.00	170289.00	-70231.10	2-3	202.50	28.122
30	1726.19	1	SLU	-86854.80	195.92	-79.98	-2571250.00	168680.00	-69464.50	2-3	202.50	29.604
31	1785.71	1	SLU	-82280.80	-221.07	90.25	-2571250.00	-166784.00	69644.50	2-3	22.50	31.250
32	1845.24	1	SLU	-77711.20	-509.28	207.91	-2571250.00	-165094.00	69075.10	2-3	22.50	33.087
33	1904.76	1	SLU	-73145.70	-686.21	280.14	-2571250.00	-164094.00	66622.60	2-3	21.88	35.152
34	1964.29	1	SLU	-68584.20	-769.16	314.00	-2571250.00	-162391.00	66060.80	2-3	21.88	37.490
35	2023.81	1	SLU	-64026.40	-775.15	316.45	-2571250.00	-160035.00	66941.00	2-3	22.50	40.159
36	2083.33	1	SLU	-59472.00	-720.88	294.29	-2571250.00	-158344.00	66183.00	2-3	22.50	43.235
37	2142.86	1	SLU	-54920.80	-622.75	254.23	-2571250.00	-156647.00	65421.60	2-3	22.50	46.817
38	2202.38	1	SLU	-50372.60	-496.87	202.84	-2571250.00	-154947.00	64658.50	2-3	22.50	51.045
39	2261.90	1	SLU	-45827.00	-359.09	146.59	-2571250.00	-153240.00	63864.90	2-3	22.50	56.108
40	2321.43	1	SLU	-41283.90	-225.05	91.87	-2571250.00	-151531.00	63067.70	2-3	22.50	62.282
41	2380.95	1	SLU	-36743.10	-110.26	45.01	-2571250.00	-149815.00	62266.70	2-3	22.50	69.979
42	2440.48	1	SLU	-32204.10	-30.12	12.30	-2571250.00	-148097.00	61464.10	2-3	22.50	79.842
43	2500.00	1	SLU	-27667.00	0.00	0.00	-2571250.00					92.936

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6649.98	719.13	0.85	11.31	6688.75	1.00	32294.70	360962.00	32294.70	4.828
2	59.52	1	SLU	4275.85	462.39	0.85	11.31	4300.78	1.00	32294.70	360932.00	32294.70	7.509
3	119.05	1	SLU	2237.15	241.93	0.85	11.31	2250.19	1.00	32294.70	360630.00	32294.70	14.352
4	178.57	1	SLU	508.77	55.02	0.85	11.31	511.74	1.00	32294.70	360330.00	32294.70	63.108
5	238.09	1	SLU	-934.89	-101.10	0.85	11.31	940.34	1.00	32294.70	360030.00	32294.70	34.343
6	297.62	1	SLU	-2119.58	-229.21	0.85	11.31	2131.94	1.00	32294.70	359732.00	32294.70	15.148
7	357.14	1	SLU	-3370.02	-364.44	0.85	11.31	3389.67	1.00	32294.70	359434.00	32294.70	9.527
8	416.67	1	SLU	-4641.46	-501.93	0.85	11.31	4668.52	1.00	32294.70	358755.00	32294.70	6.918
9	476.19	1	SLU	-5597.59	-605.33	0.85	11.31	5630.23	1.00	32294.70	358076.00	32294.70	5.736
10	535.71	1	SLU	-6278.06	-678.91	0.85	11.31	6314.66	1.00	32294.70	357400.00	32294.70	5.114
11	595.24	1	SLU	-6720.27	-726.74	0.85	11.31	6759.45	1.00	32294.70	356725.00	32294.70	4.778
12	654.76	1	SLU	-6959.14	-752.57	0.85	11.31	6999.71	1.00	32294.70	356051.00	32294.70	4.614
13	714.29	1	SLU	-7026.89	-759.89	0.85	11.31	7067.86	1.00	32294.70	355378.00	32294.70	4.569
14	773.81	1	SLU	-6952.99	-751.90	0.85	11.31	6993.53	1.00	32294.70	354707.00	32294.70	4.618
15	833.33	1	SLU	-6764.10	-731.48	0.85	11.31	6803.54	1.00	32294.70	354037.00	32294.70	4.747
16	892.86	1	SLU	-6484.11	-701.20	0.85	11.31	6521.92	1.00	32294.70	353368.00	32294.70	4.952
17	952.38	1	SLU	-6134.23	-663.36	0.85	11.31	6169.99	1.00	32294.70	352700.00	32294.70	5.234
18	1011.90	1	SLU	-5733.05	-619.98	0.85	11.31	5766.48	1.00	32294.70	352033.00	32294.70	5.600
19	1071.43	1	SLU	-5296.77	-572.80	0.85	11.31	5327.65	1.00	32294.70	351368.00	32294.70	6.062
20	1130.95	1	SLU	-4839.26	-523.32	0.85	11.31	4867.48	1.00	32294.70	350703.00	32294.70	6.635
21	1190.48	1	SLU	-4372.31	-472.82	0.85	11.31	4397.80	1.00	32294.70	350040.00	32294.70	7.343
22	1250.00	1	SLU	-3905.77	-422.37	0.85	11.31	3928.54	1.00	32294.70	349377.00	32294.70	8.221
23	1309.52	1	SLU	-3447.74	-372.84	0.85	11.31	3467.84	1.00	32294.70	348716.00	32294.70	9.313
24	1369.05	1	SLU	-3004.78	-324.94	0.85	11.31	3022.30	1.00	32294.70	348055.00	32294.70	10.685
25	1428.57	1	SLU	-2582.08	-279.23	0.85	11.31	2597.13	1.00	32294.70	347396.00	32294.70	12.435
26	1488.10	1	SLU	-2183.61	-236.14	0.85	11.31	2196.34	1.00	32294.70	346737.00	32294.70	14.704
27	1547.62	1	SLU	-1812.33	-195.99	0.85	11.31	1822.90	1.00	32294.70	346079.00	32294.70	17.716
28	1607.14	1	SLU	-1470.33	-159.00	0.85	11.31	1478.90	1.00	32294.70	345422.00	32294.70	21.837
29	1666.67	1	SLU	-1158.97	-125.33	0.85	11.31	1165.73	1.00	32294.70	344765.00	32294.70	27.703
30	1726.19	1	SLU	-879.03	-95.06	0.85	11.31	884.16	1.00	32294.70	344109.00	32294.70	36.526
31	1785.71	1	SLU	-630.84	-68.22	0.85	11.31	634.51	1.00	32294.70	343454.00	32294.70	50.897
32	1845.24	1	SLU	-414.34	-44.81	0.85	11.31	416.75	1.00	32294.70	342799.00	32294.70	77.491
33	1904.76	1	SLU	-229.26	-24.79	0.85	11.31	230.60	1.00	32294.70	342145.00	32294.70	>100
34	1964.29	1	SLU	-75.15	-8.13	0.85	11.31	75.59	1.00	32294.70	341492.00	32294.70	>100
35	2023.81	1	SLU	48.53	5.25	0.85	11.31	48.81	1.00	32294.70	340839.00	32294.70	>100
36	2083.33	1	SLU	142.35	15.39	0.85	11.31	143.18	1.00	32294.70	340187.00	32294.70	>100
37	2142.86	1	SLU	206.87	22.37	0.85	11.31	208.07	1.00	32294.70	339535.00	32294.70	>100
38	2202.38	1	SLU	242.57	26.23	0.85	11.31	243.99	1.00	32294.70	338883.00	32294.70	>100
39	2261.90	1	SLU	249.88	27.02	0.85	11.31	251.33	1.00	32294.70	338232.00	32294.70	>100
40	2321.43	1	SLU	229.10	24.78	0.85	11.31	230.44	1.00	32294.70	337582.00	32294.70	>100
41	2380.95	1	SLU	180.46	19.51	0.85	11.31	181.51	1.00	32294.70	336931.00	32294.70	>100
42	2440.48	1	SLU	104.07	11.25	0.85	11.31	104.68	1.00	32294.70	336281.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-151490.00	-16840.90	41252.40	28.27	50.27	38.21	535.13
45	59.52	2	SLE R	-151645.00	-17751.80	43483.50	31.42	47.12	40.23	561.96
46	119.05	2	SLE R	-150277.00	-18293.10	44809.60	31.42	47.12	41.48	578.20
47	178.57	2	SLE R	-148913.00	-18519.10	45363.10	31.42	47.12	42.02	585.10
48	238.09	2	SLE R	-147555.00	-18479.60	45266.30	31.42	47.12	41.94	583.81
49	297.62	2	SLE R	-146201.00	-18220.20	44630.90	31.42	47.12	41.35	575.64
50	357.14	2	SLE R	-144851.00	-17765.40	43516.80	31.42	47.12	40.29	561.42
51	416.67	2	SLE R	-141353.00	-17089.20	41860.60	31.42	47.12	38.74	540.25
52	476.19	2	SLE R	-137861.00	-16227.00	39748.50	31.42	47.12	36.77	513.55
53	535.71	2	SLE R	-134378.00	-15228.10	37301.70	28.27	50.27	34.53	483.10
54	595.24	2	SLE R	-130901.00	-14135.60	34625.60	28.27	50.27	32.12	450.52

11	636.73	2	Sud	-127631.00	-12916.50	3151.00	27.12	33.41	29.67	417.24
12	716.29	2	Sud	-123969.00	-11312.20	2890.30	27.12	33.41	27.23	384.38
13	778.81	1	OVEST	-[illegible]	[illegible]	[illegible]	[illegible]	39.64	41.97	[illegible]
14	833.00	1	OVEST	-[illegible]	9487.70	[illegible]	[illegible]	39.64	42.78	[illegible]
15	845.36	2	OVEST	-[illegible]	-8870.25	[illegible]	[illegible]	45.93	50.79	[illegible]
16	963.28	2	OVEST	-[illegible]	-[illegible]	[illegible]	6.28	45.26	48.94	[illegible]
21	1011.36	2	Sud	-106751.00	-8322.68	12487.60	0.00	78.24	27.21	247.75
22	1071.43	2	Sud	-103321.00	-9297.88	13222.30	0.00	78.24	22.77	226.38
23	1130.14	1	OVEST	-[illegible]	-[illegible]	[illegible]	0.00	38.64	14.33	[illegible]
24	1190.18	1	OVEST	-[illegible]	-[illegible]	-[illegible]	0.00	38.64	13.00	[illegible]
25	1250.00	2	OVEST	-[illegible]	-[illegible]	[illegible]	0.00	38.64	11.68	[illegible]
26	1309.57	2	OVEST	-[illegible]	-[illegible]	[illegible]	0.00	38.64	10.44	[illegible]
27	1369.11	2	Sud	-86275.80	-1403.71	4717.35	0.00	78.24	9.64	141.51
28	1428.27	2	Sud	-82881.60	-1417.70	3370.80	0.00	78.24	8.72	128.17
29	1488.10	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	7.97	[illegible]
30	1547.69	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	7.28	[illegible]
31	1607.14	2	OVEST	-[illegible]	-449.52	[illegible]	0.00	38.64	6.63	[illegible]
32	1666.60	2	OVEST	-[illegible]	-[illegible]	[illegible]	0.00	38.64	6.05	[illegible]
33	1726.19	2	Sud	-63969.10	-13.25	143.22	0.00	78.24	5.44	81.53
34	1785.71	2	Sud	-62581.00	56.85	-162.70	0.00	78.24	5.18	77.56
35	1845.24	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	4.87	[illegible]
36	1904.79	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	4.87	[illegible]
37	1964.29	2	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	4.64	[illegible]
38	2023.81	2	Sud	-49140.10	234.61	-274.13	0.00	78.24	4.21	64.27
39	2083.33	2	Sud	-47781.90	218.00	-233.80	0.00	78.24	4.02	59.88
40	2142.86	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	3.77	[illegible]
41	2202.38	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	3.58	[illegible]
42	2261.90	2	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	3.41	[illegible]
43	2321.43	2	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	3.25	[illegible]
44	2380.95	2	Sud	-39041.20	33.36	-8.67	0.00	78.24	2.41	36.03
45	2440.48	2	Sud	-37687.10	9.11	-22.31	0.00	78.24	2.10	31.59
46	2500.00	1	OVEST	-[illegible]	0.00	0.00	0.00	38.64	1.87	[illegible]
47	0.00	1	OVEST	-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
48	59.52	2	OVEST	-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
49	[illegible]	2	OVEST	-[illegible]	[illegible]	[illegible]	31.42	47.12	41.48	[illegible]
50	178.57	4	Sud	-148913.00	-18213.10	62362.10	31.42	47.12	62.02	317.10
51	238.09	4	Sud	-147552.00	-18479.60	62266.30	31.42	47.12	61.84	317.81
52	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
53	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
54	[illegible]	2	OVEST	-[illegible]	[illegible]	[illegible]	31.42	47.12	38.42	[illegible]
55	[illegible]	2	OVEST	-[illegible]	[illegible]	[illegible]	31.42	47.12	38.24	[illegible]
56	535.71	4	Sud	-134371.00	-15228.10	3730.70	25.27	50.27	34.32	483.10
57	595.24	4	Sud	-132991.00	-16133.60	34023.60	25.27	50.27	32.12	420.52
58	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
59	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	[illegible]	2	OVEST	-[illegible]	[illegible]	[illegible]	[illegible]	54.69	54.42	[illegible]
61	[illegible]	2	OVEST	-[illegible]	-[illegible]	[illegible]	[illegible]	54.69	52.08	[illegible]
62	892.86	4	Sud	-112621.00	-8376.25	2211.70	12.37	65.97	21.78	290.78
63	952.38	4	Sud	-110191.00	-7217.87	17923.30	0.28	72.23	11.87	270.69
64	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	10.38	[illegible]
65	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	9.13	[illegible]
66	[illegible]	2	OVEST	-[illegible]	-[illegible]	[illegible]	0.00	38.64	14.78	[illegible]
67	[illegible]	2	OVEST	-[illegible]	-[illegible]	[illegible]	0.00	38.64	13.00	[illegible]
68	1130.94	4	Sud	-83981.10	-3182.37	7220.30	0.00	78.24	11.78	170.82
69	1309.72	4	Sud	-89679.30	-2486.26	8141.14	0.00	78.24	10.66	155.21
70	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	9.67	[illegible]
71	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	8.78	[illegible]
72	1488.10	2	OVEST	-[illegible]	-[illegible]	[illegible]	0.00	38.64	9.97	[illegible]
73	[illegible]	2	OVEST	-[illegible]	-[illegible]	[illegible]	0.00	38.64	9.78	[illegible]
74	1607.14	4	Sud	-78722.20	-449.56	1101.11	0.00	78.24	8.72	97.03
75	1666.67	4	Sud	-69343.80	-223.61	362.63	0.00	78.24	7.83	88.82
76	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	6.77	[illegible]
77	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	6.78	[illegible]
78	[illegible]	2	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	8.02	[illegible]
79	[illegible]	2	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	7.87	[illegible]
80	[illegible]	2	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	7.60	[illegible]
81	1845.24	4	Sud	-32503.30	232.50	-269.72	0.00	78.24	4.59	68.34
82	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	4.38	[illegible]
83	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	4.07	[illegible]
84	[illegible]	2	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	3.87	[illegible]
85	[illegible]	2	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	3.68	[illegible]
86	2261.90	4	Sud	-23734.30	108.50	-263.09	0.00	78.24	3.03	47.50
87	2321.43	4	Sud	-22386.30	98.96	-166.72	0.00	78.24	2.72	40.75
88	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	2.47	[illegible]
89	[illegible]	1	OVEST	-[illegible]	[illegible]	[illegible]	0.00	38.64	2.70	[illegible]
90	[illegible]	2	OVEST	-[illegible]	0.00	0.00	0.00	38.64	1.82	[illegible]

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-151490.00	41252.40	-16840.90	46.00	136.36	0.50	20.00	183.38	12.57	574.18	213.01	0.06	0.02
88	59.52	4	SLE Q	-151645.00	43483.50	-17751.80	46.00	136.36	0.50	20.00	194.72	12.57	645.40	254.66	0.07	0.02
89	119.05	4	SLE Q	-150277.00	44809.60	-18293.10	46.00	136.36	0.50	20.00	203.41	12.57	700.01	287.35	0.08	0.03
90	178.57	4	SLE Q	-148913.00	45363.10	-18519.10	46.00	136.36	0.50	20.00	184.85	15.71	729.23	305.22	0.09	0.03
91	238.09	4	SLE Q	-147555.00	45266.30	-18479.60	46.00	136.36	0.50	20.00	186.00	15.71	738.30	309.35	0.09	0.03
92	297.62	4	SLE Q	-146201.00	44630.90	-18220.20	46.00	136.36	0.50	20.00	185.20	15.71	731.98	301.70	0.09	0.03
93	357.14	4	SLE Q	-144851.00	43516.80	-17765.40	46.00	136.36	0.50	20.00	205.08	12.57	710.50	283.83	0.08	0.03
94	416.67	4	SLE Q	-141353.00	41860.60	-17089.20	46.00	136.36	0.50	20.00	201.88	12.57	690.40	264.27	0.08	0.03
95	476.19	4	SLE Q	-137861.00	39748.50	-16227.00	46.00	136.36	0.50	20.00	195.93	12.57	653.02	235.82	0.07	0.02
96	535.71	4	SLE Q	-134378.00	37301.70	-15228.10	46.00	136.36	0.50	20.00	187.57	12.57	600.49	202.01	0.06	0.02
97	595.24	4	SLE Q	-130901.00	34625.60	-14135.60	46.00	136.36	0.50	20.00	177.12	12.57	534.79	166.00	0.05	0.01
98	654.76	4	SLE Q	-127431.00	31810.90	-12986.50	46.00	136.36	0.50	20.00	164.91	12.57	458.09	130.37	0.04	0.01
99	714.29	4	SLE Q	-123969.00	28934.30	-11812.20	46.00	136.36	0.50	20.00	171.12	9.42	372.83	97.04	0.03	0.01
100	773.81	4	SLE Q	-120513.00	26060.00	-10638.80	46.00	136.36	0.50	20.00	181.96	6.28	282.62	67.23	0.02	0.01
101	833.33	4	SLE Q	-117063.00	23240.40	-9487.70	46.00	136.36	0.50	20.00	214.73	3.14	192.79	41.49	0.01	0.00
130	0.00	3	SLE F	-151490.00	41252.40	-16840.90	46.00	136.36	0.50	20.00	183.38	12.57	574.18	213.01	0.06	0.02
131	59.52	3	SLE F	-151645.00	43483.50	-17751.80	46.00	136.36	0.50	20.00	194.72	12.57	645.40	254.66	0.07	0.02
132	119.05	3	SLE F	-150277.00	44809.60	-18293.10	46.00	136.36	0.50	20.00	203.41	12.57	700.01	287.35	0.08	0.03
133	178.57	3	SLE F	-148913.00	45363.10	-18519.10	46.00	136.36	0.50	20.00	184.85	15.71	729.23	305.22	0.09	0.03
134	238.09	3	SLE F	-147555.00	45266.30	-18479.60	46.00	136.36	0.50	20.00	186.00	15.71	738.30	309.35	0.09	0.03
135	297.62	3	SLE F	-146201.00	44630.90	-18220.20	46.00	136.36	0.50	20.00	185.20	15.71	731.98	301.70	0.09	0.03
136	357.14	3	SLE F	-144851.00	43516.80	-17765.40	46.00	136.36	0.50	20.00	205.08	12.57	710.50	283.83	0.08	0.03
137	416.67	3	SLE F	-141353.00	41860.60	-17089.20	46.00	136.36	0.50	20.00	201.88	12.57	690.40	264.27	0.08	0.03
138	476.19	3	SLE F	-137861.00	39748.50	-16227.00	46.00	136.36	0.50	20.00	195.93	12.57	653.02	235.82	0.07	0.02
139	535.71	3	SLE F	-134378.00	37301.70	-15228.10	46.00	136.36	0.50	20.00	187.57	12.57	600.49	202.01	0.06	0.02
140	595.24	3	SLE F	-130901.00	34625.60	-14135.60	46.00	136.36	0.50	20.00	177.12	12.57	534.79	166.00	0.05	0.01
141	654.76	3	SLE F	-127431.00	31810.90	-12986.50	46.00	136.36	0.50	20.00	164.91	12.57	458.09	130.37	0.04	0.01
142	714.29	3	SLE F	-123969.00	28934.30	-11812.20	46.00	136.36	0.50	20.00	171.12	9.42	372.83	97.04	0.03	0.01
143	773.81	3	SLE F	-120513.00	26060.00	-10638.80	46.00	136.36	0.50	20.00	181.96	6.28	282.62	67.23	0.02	0.01
144	833.33	3	SLE F	-117063.00	23240.40	-9487.70	46.00	136.36	0.50	20.00	214.73	3.14	192.79	41.49	0.01	0.00

Verifiche principali

Caso	Tipo
5	SLU N cost - min. sic.
13	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
47	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
48	C.Rare - Sf max (max traz.)
61	C.Rare - Sc max (min. compr.)
89	C.Q.Per. - Wk Max
90	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
91	C.Q.Per. - Sf max (max traz.)
104	C.Q.Per. - Sc max (min. compr.)
132	C.Freq - Wk Max

Palo n. 8

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 8 (-41)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	128535.00	7051.77	657.85	64491.40	10929.70
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	128535.00	7051.77	657.85	64491.40	10929.70
2	2	SLE R	RVN	95211.30	5223.53	487.30	47771.40	8096.04
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	95211.30	5223.53	487.30	47771.40	8096.04
3	3	SLE F	RVN	95211.30	5223.53	487.30	47771.40	8096.04
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00

	3	SLE F	TOT	95211.30	5223.53	487.30	47771.40	8096.04
4	4	SLE Q	RVN	95211.30	5223.53	487.30	47771.40	8096.04
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	95211.30	5223.53	487.30	47771.40	8096.04

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-128535.00	-7051.77	-657.85	-64491.40	-10929.70
2	2	SLE R	1	-95211.30	-5223.53	-487.30	-47771.40	-8096.04
3	3	SLE F	1	-95211.30	-5223.53	-487.30	-47771.40	-8096.04
4	4	SLE Q	1	-95211.30	-5223.53	-487.30	-47771.40	-8096.04

Da 0 a -25

Stato limite ultimo – Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-128535.00	64234.90	-10886.20	-128535.00	195406.00	-34614.80	2-3	190.00	3.046
2	59.52	1	SLU	-128850.00	67621.20	-11460.10	-128850.00	195522.00	-34638.10	2-3	190.00	2.895
3	119.05	1	SLU	-127800.00	69611.80	-11797.40	-127800.00	195134.00	-34560.20	2-3	190.00	2.807
4	178.57	1	SLU	-126755.00	70411.80	-11933.00	-126755.00	194747.00	-34482.70	2-3	190.00	2.769
5	238.09	1	SLU	-125713.00	70210.10	-11898.80	-125713.00	194361.00	-34405.40	2-3	190.00	2.772
6	297.62	1	SLU	-124675.00	69179.20	-11724.10	-124675.00	193976.00	-34328.50	2-3	190.00	2.808
7	357.14	1	SLU	-123642.00	67412.30	-11424.70	-123642.00	193593.00	-34251.90	2-3	190.00	2.875
8	416.67	1	SLU	-120682.00	64812.50	-10984.10	-120682.00	192491.00	-34030.20	2-3	190.00	2.974
9	476.19	1	SLU	-117729.00	61513.30	-10424.90	-117729.00	191389.00	-33808.60	2-3	190.00	3.115
10	535.71	1	SLU	-114782.00	57701.70	-9778.97	-114782.00	190289.00	-33587.70	2-3	190.00	3.302
11	595.24	1	SLU	-111841.00	53540.30	-9073.72	-111841.00	189187.00	-33365.60	2-3	190.00	3.538
12	654.76	1	SLU	-108906.00	49168.80	-8332.86	-108906.00	188084.00	-33142.90	2-3	190.00	3.830
13	714.29	1	SLU	-105977.00	44705.40	-7576.43	-105977.00	186983.00	-32920.90	2-3	190.00	4.187
14	773.81	1	SLU	-103054.00	40248.90	-6821.17	-103054.00	185874.00	-32711.50	2-3	190.00	4.623
15	833.33	1	SLU	-100136.00	35880.20	-6080.79	-100136.00	184760.00	-32504.90	2-3	190.00	5.155
16	892.86	1	SLU	-97223.60	31664.20	-5366.28	-97223.60	183650.00	-32299.10	2-3	190.00	5.806
17	952.38	1	SLU	-94316.50	27651.40	-4686.22	-94316.50	182538.00	-32093.00	2-3	190.00	6.608
18	1011.90	1	SLU	-91414.40	23880.00	-4047.05	-91414.40	181423.00	-31885.80	2-3	190.00	7.605
19	1071.43	1	SLU	-88517.10	20376.80	-3453.35	-88517.10	180309.00	-31678.90	2-3	190.00	8.858
20	1130.95	1	SLU	-85624.70	17159.30	-2908.07	-85624.70	179197.00	-31472.40	2-3	190.00	10.454
21	1190.48	1	SLU	-82736.80	14237.00	-2412.81	-82736.80	178083.00	-31265.20	2-3	190.00	12.521
22	1250.00	1	SLU	-79853.40	11612.30	-1968.00	-79853.40	176968.00	-31057.60	2-3	190.00	15.255
23	1309.52	1	SLU	-76974.20	9282.20	-1573.10	-76974.20	175854.00	-30850.30	2-3	190.00	18.964
24	1369.05	1	SLU	-74099.20	7238.87	-1226.80	-74099.20	174740.00	-30643.10	2-3	190.00	24.163
25	1428.57	1	SLU	-71228.20	5470.89	-927.18	-71228.20	173624.00	-30434.60	2-3	190.00	31.767
26	1488.10	1	SLU	-68360.90	3963.95	-671.79	-2571250.00	172508.00	-30226.40	2-3	190.00	37.613
27	1547.62	1	SLU	-65497.40	2701.56	-457.85	-2571250.00	171392.00	-30018.40	2-3	190.00	39.257
28	1607.14	1	SLU	-62637.30	1665.66	-282.29	-2571250.00	170275.00	-29809.80	2-3	190.00	41.050
29	1666.67	1	SLU	-59780.70	837.11	-141.87	-2571250.00	169158.00	-29600.60	2-3	190.00	43.011
30	1726.19	1	SLU	-56927.20	196.13	-33.24	-2571250.00	168040.00	-29391.70	2-3	190.00	45.167
31	1785.71	1	SLU	-54076.80	-277.42	47.02	-2571250.00	-166777.00	29587.00	2-3	10.00	47.548
32	1845.24	1	SLU	-51229.20	-603.72	102.31	-2571250.00	-165628.00	29374.90	2-3	10.00	50.191
33	1904.76	1	SLU	-48384.40	-802.85	136.06	-2571250.00	-164479.00	29163.10	2-3	10.00	53.142
34	1964.29	1	SLU	-45542.30	-894.65	151.62	-2571250.00	-163329.00	28950.90	2-3	10.00	56.459
35	2023.81	1	SLU	-42702.50	-898.63	152.29	-2571250.00	-162175.00	28737.40	2-3	10.00	60.213
36	2083.33	1	SLU	-39865.10	-833.93	141.33	-2571250.00	-161021.00	28524.10	2-3	10.00	64.499
37	2142.86	1	SLU	-37029.80	-719.33	121.91	-2571250.00	-159868.00	28310.90	2-3	10.00	69.437
38	2202.38	1	SLU	-34196.40	-573.29	97.16	-2571250.00	-158709.00	28095.80	2-3	10.00	75.191
39	2261.90	1	SLU	-31364.90	-413.96	70.16	-2571250.00	-157551.00	27880.90	2-3	10.00	81.978
40	2321.43	1	SLU	-28535.10	-259.26	43.94	-2571250.00	-156394.00	27666.40	2-3	10.00	90.108
41	2380.95	1	SLU	-25706.90	-126.95	21.51	-2571250.00	-155231.00	27449.80	2-3	10.00	>100
42	2440.48	1	SLU	-22880.00	-34.67	5.88	-2571250.00	-154068.00	27233.20	2-3	10.00	>100
43	2500.00	1	SLU	-20054.30	0.00	0.00	-2571250.00					>100

Stato limite ultimo – Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7051.77	657.85	0.85	11.31	7082.39	1.00	32294.70	350079.00	32294.70	4.560
2	59.52	1	SLU	4500.94	419.89	0.85	11.31	4520.49	1.00	32294.70	350124.00	32294.70	7.144
3	119.05	1	SLU	2311.56	215.64	0.85	11.31	2321.59	1.00	32294.70	349974.00	32294.70	13.911
4	178.57	1	SLU	456.44	42.58	0.85	11.31	458.42	1.00	32294.70	349824.00	32294.70	70.448
5	238.09	1	SLU	-1092.11	-101.88	0.85	11.31	1096.86	1.00	32294.70	349675.00	32294.70	29.443
6	297.62	1	SLU	-2361.92	-220.34	0.85	11.31	2372.17	1.00	32294.70	349527.00	32294.70	13.614
7	357.14	1	SLU	-3700.75	-345.24	0.85	11.31	3716.82	1.00	32294.70	349378.00	32294.70	8.689
8	416.67	1	SLU	-5060.59	-472.10	0.85	11.31	5082.56	1.00	32294.70	348955.00	32294.70	6.354
9	476.19	1	SLU	-6081.44	-567.33	0.85	11.31	6107.85	1.00	32294.70	348531.00	32294.70	5.287
10	535.71	1	SLU	-6806.07	-634.93	0.85	11.31	6835.62	1.00	32294.70	348109.00	32294.70	4.724

11	595.24	1	SLU	-7274.77	-678.65	0.85	11.31	7306.36	1.00	32294.70	347688.00	32294.70	4.420
12	654.76	1	SLU	-7525.17	-702.01	0.85	11.31	7557.85	1.00	32294.70	347268.00	32294.70	4.273
13	714.29	1	SLU	-7591.98	-708.25	0.85	11.31	7624.94	1.00	32294.70	346848.00	32294.70	4.235
14	773.81	1	SLU	-7506.90	-700.31	0.85	11.31	7539.49	1.00	32294.70	346429.00	32294.70	4.283
15	833.33	1	SLU	-7298.63	-680.88	0.85	11.31	7330.32	1.00	32294.70	346012.00	32294.70	4.406
16	892.86	1	SLU	-6992.88	-652.36	0.85	11.31	7023.24	1.00	32294.70	345594.00	32294.70	4.598
17	952.38	1	SLU	-6612.42	-616.86	0.85	11.31	6641.13	1.00	32294.70	345178.00	32294.70	4.863
18	1011.90	1	SLU	-6177.28	-576.27	0.85	11.31	6204.10	1.00	32294.70	344762.00	32294.70	5.205
19	1071.43	1	SLU	-5704.82	-532.20	0.85	11.31	5729.59	1.00	32294.70	344347.00	32294.70	5.636
20	1130.95	1	SLU	-5209.97	-486.03	0.85	11.31	5232.59	1.00	32294.70	343933.00	32294.70	6.172
21	1190.48	1	SLU	-4705.35	-438.96	0.85	11.31	4725.78	1.00	32294.70	343519.00	32294.70	6.834
22	1250.00	1	SLU	-4201.54	-391.96	0.85	11.31	4219.79	1.00	32294.70	343106.00	32294.70	7.653
23	1309.52	1	SLU	-3707.23	-345.84	0.85	11.31	3723.33	1.00	32294.70	342694.00	32294.70	8.674
24	1369.05	1	SLU	-3229.44	-301.27	0.85	11.31	3243.46	1.00	32294.70	342282.00	32294.70	9.957
25	1428.57	1	SLU	-2773.71	-258.76	0.85	11.31	2785.75	1.00	32294.70	341871.00	32294.70	11.593
26	1488.10	1	SLU	-2344.29	-218.70	0.85	11.31	2354.47	1.00	32294.70	341460.00	32294.70	13.716
27	1547.62	1	SLU	-1944.34	-181.38	0.85	11.31	1952.79	1.00	32294.70	341050.00	32294.70	16.538
28	1607.14	1	SLU	-1576.08	-147.03	0.85	11.31	1582.92	1.00	32294.70	340640.00	32294.70	20.402
29	1666.67	1	SLU	-1240.94	-115.77	0.85	11.31	1246.33	1.00	32294.70	340231.00	32294.70	25.912
30	1726.19	1	SLU	-939.74	-87.67	0.85	11.31	943.82	1.00	32294.70	339822.00	32294.70	34.217
31	1785.71	1	SLU	-672.80	-62.76	0.85	11.31	675.72	1.00	32294.70	339414.00	32294.70	47.793
32	1845.24	1	SLU	-440.07	-41.05	0.85	11.31	441.99	1.00	32294.70	339006.00	32294.70	73.067
33	1904.76	1	SLU	-241.23	-22.50	0.85	11.31	242.28	1.00	32294.70	338599.00	32294.70	>100
34	1964.29	1	SLU	-75.78	-7.07	0.85	11.31	76.11	1.00	32294.70	338192.00	32294.70	>100
35	2023.81	1	SLU	56.88	5.31	0.85	11.31	57.12	1.00	32294.70	337785.00	32294.70	>100
36	2083.33	1	SLU	157.36	14.68	0.85	11.31	158.04	1.00	32294.70	337378.00	32294.70	>100
37	2142.86	1	SLU	226.27	21.11	0.85	11.31	227.25	1.00	32294.70	336972.00	32294.70	>100
38	2202.38	1	SLU	264.14	24.64	0.85	11.31	265.29	1.00	32294.70	336566.00	32294.70	>100
39	2261.90	1	SLU	271.43	25.32	0.85	11.31	272.61	1.00	32294.70	336161.00	32294.70	>100
40	2321.43	1	SLU	248.47	23.18	0.85	11.31	249.55	1.00	32294.70	335755.00	32294.70	>100
41	2380.95	1	SLU	195.50	18.24	0.85	11.31	196.35	1.00	32294.70	335350.00	32294.70	>100
42	2440.48	1	SLU	112.66	10.51	0.85	11.31	113.15	1.00	32294.70	334945.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-95211.30	-8063.85	47581.40	40.84	37.70	43.41	644.35
45	59.52	2	SLE R	-95757.60	-8488.95	50089.80	40.84	37.70	46.02	719.99
46	119.05	2	SLE R	-95170.20	-8738.84	51564.30	43.98	34.56	47.62	774.10
47	178.57	2	SLE R	-94585.90	-8839.27	52156.90	43.98	34.56	48.29	799.57
48	238.09	2	SLE R	-94004.40	-8813.95	52007.50	43.98	34.56	48.17	800.37
49	297.62	2	SLE R	-93426.00	-8684.53	51243.80	43.98	34.56	47.41	780.65
50	357.14	2	SLE R	-92850.40	-8462.72	49935.00	43.98	34.56	46.06	742.92
51	416.67	2	SLE R	-90673.20	-8136.35	48009.20	40.84	37.70	44.18	700.67
52	476.19	2	SLE R	-88500.80	-7722.17	45565.40	40.84	37.70	41.76	641.80
53	535.71	2	SLE R	-86333.20	-7243.68	42742.00	37.70	40.84	38.94	571.50
54	595.24	2	SLE R	-84170.30	-6721.28	39659.50	37.70	40.84	35.85	494.55
55	654.76	2	SLE R	-82011.80	-6172.49	36421.30	37.70	40.84	32.62	449.66
56	714.29	2	SLE R	-79857.70	-5612.17	33115.10	37.70	40.84	29.35	406.21
57	773.81	2	SLE R	-77707.90	-5052.72	29814.00	37.70	40.84	26.15	363.44
58	833.33	2	SLE R	-75562.30	-4504.29	26577.90	31.42	47.12	23.09	322.50
59	892.86	2	SLE R	-73420.80	-3975.02	23455.00	31.42	47.12	20.26	284.40
60	952.38	2	SLE R	-71283.20	-3471.27	20482.60	28.27	50.27	17.72	249.92
61	1011.90	2	SLE R	-69149.40	-2997.81	17688.90	25.13	53.41	15.49	219.52
62	1071.43	2	SLE R	-67019.30	-2558.03	15093.90	18.85	59.69	13.58	193.27
63	1130.95	2	SLE R	-64892.80	-2154.13	12710.60	12.57	65.97	11.95	170.89
64	1190.48	2	SLE R	-62769.80	-1787.27	10545.90	0.00	78.54	10.58	151.87
65	1250.00	2	SLE R	-60650.10	-1457.77	8601.73	0.00	78.54	9.40	135.35
66	1309.52	2	SLE R	-58533.70	-1165.26	6875.70	0.00	78.54	8.33	120.45
67	1369.05	2	SLE R	-56420.50	-908.74	5362.12	0.00	78.54	7.37	107.07
68	1428.57	2	SLE R	-54310.20	-686.80	4052.51	0.00	78.54	6.52	95.14
69	1488.10	2	SLE R	-52202.90	-497.62	2936.26	0.00	78.54	5.77	84.61
70	1547.62	2	SLE R	-50098.40	-339.14	2001.15	0.00	78.54	5.11	75.37
71	1607.14	2	SLE R	-47996.60	-209.10	1233.82	0.00	78.54	4.54	67.33
72	1666.67	2	SLE R	-45897.30	-105.09	620.08	0.00	78.54	4.05	60.39
73	1726.19	2	SLE R	-43800.50	-24.62	145.28	0.00	78.54	3.64	54.44
74	1785.71	2	SLE R	-41706.10	34.83	-205.50	0.00	78.54	3.50	52.31
75	1845.24	2	SLE R	-39613.90	75.79	-447.20	0.00	78.54	3.45	51.47
76	1904.76	2	SLE R	-37523.80	100.79	-594.71	0.00	78.54	3.36	49.97
77	1964.29	2	SLE R	-35435.80	112.31	-662.71	0.00	78.54	3.22	47.91
78	2023.81	2	SLE R	-33349.60	112.81	-665.65	0.00	78.54	3.06	45.39
79	2083.33	2	SLE R	-31265.20	104.69	-617.72	0.00	78.54	2.86	42.51
80	2142.86	2	SLE R	-29182.50	90.30	-532.84	0.00	78.54	2.65	39.36
81	2202.38	2	SLE R	-27101.40	71.97	-424.66	0.00	78.54	2.42	36.06
82	2261.90	2	SLE R	-25021.70	51.97	-306.64	0.00	78.54	2.19	32.68
83	2321.43	2	SLE R	-22943.30	32.55	-192.05	0.00	78.54	1.96	29.34
84	2380.95	2	SLE R	-20866.20	15.94	-94.04	0.00	78.54	1.74	26.11

85	2440.48	2	SLE R	-18790.20	4.35	-25.68	0.00	78.54	1.54	23.09
86	2500.00	2	SLE R	-16715.30	0.00	0.00	0.00	78.54	1.36	20.38
87	0.00	4	SLE Q	-95211.30	-8063.85	47581.40	40.84	37.70	43.41	644.35
88	59.52	4	SLE Q	-95757.60	-8488.95	50089.80	40.84	37.70	46.02	719.99
89	119.05	4	SLE Q	-95170.20	-8738.84	51564.30	43.98	34.56	47.62	774.10
90	178.57	4	SLE Q	-94585.90	-8839.27	52156.90	43.98	34.56	48.29	799.57
91	238.09	4	SLE Q	-94004.40	-8813.95	52007.50	43.98	34.56	48.17	800.37
92	297.62	4	SLE Q	-93426.00	-8684.53	51243.80	43.98	34.56	47.41	780.65
93	357.14	4	SLE Q	-92850.40	-8462.72	49935.00	43.98	34.56	46.06	742.92
94	416.67	4	SLE Q	-90673.20	-8136.35	48009.20	40.84	37.70	44.18	700.67
95	476.19	4	SLE Q	-88500.80	-7722.17	45565.40	40.84	37.70	41.76	641.80
96	535.71	4	SLE Q	-86333.20	-7243.68	42742.00	37.70	40.84	38.94	571.50
97	595.24	4	SLE Q	-84170.30	-6721.28	39659.50	37.70	40.84	35.85	494.55
98	654.76	4	SLE Q	-82011.80	-6172.49	36421.30	37.70	40.84	32.62	449.66
99	714.29	4	SLE Q	-79857.70	-5612.17	33115.10	37.70	40.84	29.35	406.21
100	773.81	4	SLE Q	-77707.90	-5052.72	29814.00	37.70	40.84	26.15	363.44
101	833.33	4	SLE Q	-75562.30	-4504.29	26577.90	31.42	47.12	23.09	322.50
102	892.86	4	SLE Q	-73420.80	-3975.02	23455.00	31.42	47.12	20.26	284.40
103	952.38	4	SLE Q	-71283.20	-3471.27	20482.60	28.27	50.27	17.72	249.92
104	1011.90	4	SLE Q	-69149.40	-2997.81	17688.90	25.13	53.41	15.49	219.52
105	1071.43	4	SLE Q	-67019.30	-2558.03	15093.90	18.85	59.69	13.58	193.27
106	1130.95	4	SLE Q	-64892.80	-2154.13	12710.60	12.57	65.97	11.95	170.89
107	1190.48	4	SLE Q	-62769.80	-1787.27	10545.90	0.00	78.54	10.58	151.87
108	1250.00	4	SLE Q	-60650.10	-1457.77	8601.73	0.00	78.54	9.40	135.35
109	1309.52	4	SLE Q	-58533.70	-1165.26	6875.70	0.00	78.54	8.33	120.45
110	1369.05	4	SLE Q	-56420.50	-908.74	5362.12	0.00	78.54	7.37	107.07
111	1428.57	4	SLE Q	-54310.20	-686.80	4052.51	0.00	78.54	6.52	95.14
112	1488.10	4	SLE Q	-52202.90	-497.62	2936.26	0.00	78.54	5.77	84.61
113	1547.62	4	SLE Q	-50098.40	-339.14	2001.15	0.00	78.54	5.11	75.37
114	1607.14	4	SLE Q	-47996.60	-209.10	1233.82	0.00	78.54	4.54	67.33
115	1666.67	4	SLE Q	-45897.30	-105.09	620.08	0.00	78.54	4.05	60.39
116	1726.19	4	SLE Q	-43800.50	-24.62	145.28	0.00	78.54	3.64	54.44
117	1785.71	4	SLE Q	-41706.10	34.83	-205.50	0.00	78.54	3.50	52.31
118	1845.24	4	SLE Q	-39613.90	75.79	-447.20	0.00	78.54	3.45	51.47
119	1904.76	4	SLE Q	-37523.80	100.79	-594.71	0.00	78.54	3.36	49.97
120	1964.29	4	SLE Q	-35435.80	112.31	-662.71	0.00	78.54	3.22	47.91
121	2023.81	4	SLE Q	-33349.60	112.81	-665.65	0.00	78.54	3.06	45.39
122	2083.33	4	SLE Q	-31265.20	104.69	-617.72	0.00	78.54	2.86	42.51
123	2142.86	4	SLE Q	-29182.50	90.30	-532.84	0.00	78.54	2.65	39.36
124	2202.38	4	SLE Q	-27101.40	71.97	-424.66	0.00	78.54	2.42	36.06
125	2261.90	4	SLE Q	-25021.70	51.97	-306.64	0.00	78.54	2.19	32.68
126	2321.43	4	SLE Q	-22943.30	32.55	-192.05	0.00	78.54	1.96	29.34
127	2380.95	4	SLE Q	-20866.20	15.94	-94.04	0.00	78.54	1.74	26.11
128	2440.48	4	SLE Q	-18790.20	4.35	-25.68	0.00	78.54	1.54	23.09
129	2500.00	4	SLE Q	-16715.30	0.00	0.00	0.00	78.54	1.36	20.38

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-95211.30	47581.40	-8063.85	46.00	136.36	0.50	20.00	206.15	18.85	1075.84	644.35	0.19	0.07
88	59.52	4	SLE Q	-95757.60	50089.80	-8488.95	46.00	136.36	0.50	20.00	208.37	18.85	1096.75	719.99	0.21	0.07
89	119.05	4	SLE Q	-95170.20	51564.30	-8738.84	46.00	136.36	0.50	20.00	209.96	18.85	1111.71	774.10	0.23	0.08
90	178.57	4	SLE Q	-94585.90	52156.90	-8839.27	46.00	136.36	0.50	20.00	210.71	18.85	1118.85	799.57	0.23	0.08
91	238.09	4	SLE Q	-94004.40	52007.50	-8813.95	46.00	136.36	0.50	20.00	210.85	18.85	1120.16	800.37	0.23	0.08
92	297.62	4	SLE Q	-93426.00	51243.80	-8684.53	46.00	136.36	0.50	20.00	210.49	18.85	1116.71	780.65	0.23	0.08
93	357.14	4	SLE Q	-92850.40	49935.00	-8462.72	46.00	136.36	0.50	20.00	209.63	18.85	1108.63	742.92	0.22	0.08
94	416.67	4	SLE Q	-90673.20	48009.20	-8136.35	46.00	136.36	0.50	20.00	208.93	18.85	1102.02	700.67	0.20	0.07
95	476.19	4	SLE Q	-88500.80	45565.40	-7722.17	46.00	136.36	0.50	20.00	207.62	18.85	1089.68	641.80	0.19	0.07
96	535.71	4	SLE Q	-86333.20	42742.00	-7243.68	46.00	136.36	0.50	20.00	205.67	18.85	1071.33	571.50	0.17	0.06
97	595.24	4	SLE Q	-84170.30	39659.50	-6721.28	46.00	136.36	0.50	20.00	203.01	18.85	1046.21	494.55	0.14	0.05
98	654.76	4	SLE Q	-82011.80	36421.30	-6172.49	46.00	136.36	0.50	20.00	199.50	18.85	1013.12	415.24	0.12	0.04
99	714.29	4	SLE Q	-79857.70	33115.10	-5612.17	46.00	136.36	0.50	20.00	194.94	18.85	970.20	337.39	0.10	0.03
100	773.81	4	SLE Q	-77707.90	29814.00	-5052.72	46.00	136.36	0.50	20.00	188.82	18.85	912.47	264.34	0.08	0.02
101	833.33	4	SLE Q	-75562.30	26577.90	-4504.29	46.00	136.36	0.50	20.00	198.27	15.71	834.64	198.79	0.06	0.02
102	892.86	4	SLE Q	-73420.80	23455.00	-3975.02	46.00	136.36	0.50	20.00	208.35	12.57	731.06	142.58	0.04	0.01
103	952.38	4	SLE Q	-71283.20	20482.60	-3471.27	46.00	136.36	0.50	20.00	184.94	12.57	583.99	96.54	0.03	0.01
104	1011.90	4	SLE Q	-69149.40	17688.90	-2997.81	46.00	136.36	0.50	20.00	160.53	12.57	430.57	60.47	0.02	0.00
105	1071.43	4	SLE Q	-67019.30	15093.90	-2558.03	46.00	136.36	0.50	20.00	180.29	6.28	277.39	33.22	0.01	0.00
130	0.00	3	SLE F	-95211.30	47581.40	-8063.85	46.00	136.36	0.50	20.00	206.15	18.85	1075.84	644.35	0.19	0.07
131	59.52	3	SLE F	-95757.60	50089.80	-8488.95	46.00	136.36	0.50	20.00	208.37	18.85	1096.75	719.99	0.21	0.07
132	119.05	3	SLE F	-95170.20	51564.30	-8738.84	46.00	136.36	0.50	20.00	209.96	18.85	1111.71	774.10	0.23	0.08
133	178.57	3	SLE F	-94585.90	52156.90	-8839.27	46.00	136.36	0.50	20.00	210.71	18.85	1118.85	799.57	0.23	0.08
134	238.09	3	SLE F	-94004.40	52007.50	-8813.95	46.00	136.36	0.50	20.00	210.85	18.85	1120.16	800.37	0.23	0.08
135	297.62	3	SLE F	-93426.00	51243.80	-8684.53	46.00	136.36	0.50	20.00	210.49	18.85	1116.71	780.65	0.23	0.08
136	357.14	3	SLE F	-92850.40	49935.00	-8462.72	46.00	136.36	0.50	20.00	209.63	18.85	1108.63	742.92	0.22	0.08
137	416.67	3	SLE F	-90673.20	48009.20	-8136.35	46.00	136.36	0.50	20.00	208.93	18.85	1102.02	700.67	0.20	0.07
138	476.19	3	SLE F	-88500.80	45565.40	-7722.17	46.00	136.36	0.50	20.00	207.62	18.85	1089.68	641.80	0.19	0.07

139	535.71	3	SLE F	-86333.20	42742.00	-7243.68	46.00	136.36	0.50	20.00	205.67	18.85	1071.33	571.50	0.17	0.06
140	595.24	3	SLE F	-84170.30	39659.50	-6721.28	46.00	136.36	0.50	20.00	203.01	18.85	1046.21	494.55	0.14	0.05
141	654.76	3	SLE F	-82011.80	36421.30	-6172.49	46.00	136.36	0.50	20.00	199.50	18.85	1013.12	415.24	0.12	0.04
142	714.29	3	SLE F	-79857.70	33115.10	-5612.17	46.00	136.36	0.50	20.00	194.94	18.85	970.20	337.39	0.10	0.03
143	773.81	3	SLE F	-77707.90	29814.00	-5052.72	46.00	136.36	0.50	20.00	188.82	18.85	912.47	264.34	0.08	0.02
144	833.33	3	SLE F	-75562.30	26577.90	-4504.29	46.00	136.36	0.50	20.00	198.27	15.71	834.64	198.79	0.06	0.02
145	892.86	3	SLE F	-73420.80	23455.00	-3975.02	46.00	136.36	0.50	20.00	208.35	12.57	731.06	142.58	0.04	0.01
146	952.38	3	SLE F	-71283.20	20482.60	-3471.27	46.00	136.36	0.50	20.00	184.94	12.57	583.99	96.54	0.03	0.01
147	1011.90	3	SLE F	-69149.40	17688.90	-2997.81	46.00	136.36	0.50	20.00	160.53	12.57	430.57	60.47	0.02	0.00
148	1071.43	3	SLE F	-67019.30	15093.90	-2558.03	46.00	136.36	0.50	20.00	180.29	6.28	277.39	33.22	0.01	0.00

Verifiche principali

Caso	Tipo
4	SLU N cost - min. sic.
13	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
47	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
48	C.Rare - Sf max (max traz.)
65	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
91	C.Q.Per. - Sf max (max traz.),C.Q.Per. - Wk Max
108	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 9

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 9 (-23)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	70710.80	7354.68	387.35	62440.60	2004.95
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	70710.80	7354.68	387.35	62440.60	2004.95
2	2	SLE R	RVN	52378.40	5447.91	286.93	46252.30	1485.15
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	52378.40	5447.91	286.93	46252.30	1485.15
3	3	SLE F	RVN	52378.40	5447.91	286.93	46252.30	1485.15
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	52378.40	5447.91	286.93	46252.30	1485.15
4	4	SLE Q	RVN	52378.40	5447.91	286.93	46252.30	1485.15
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	52378.40	5447.91	286.93	46252.30	1485.15

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-70710.80	-7354.68	-387.35	-62440.60	-2004.95
2	2	SLE R	1	-52378.40	-5447.91	-286.93	-46252.30	-1485.15
3	3	SLE F	1	-52378.40	-5447.91	-286.93	-46252.30	-1485.15
4	4	SLE Q	1	-52378.40	-5447.91	-286.93	-46252.30	-1485.15

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-70710.80	62183.00	-1996.68	-70710.80	176095.00	-4472.43	2-3	181.25	2.831
2	59.52	1	SLU	-71427.40	65791.50	-2112.55	-71427.40	176385.00	-4485.54	2-3	181.25	2.680
3	119.05	1	SLU	-71179.90	67997.60	-2183.39	-71179.90	176285.00	-4481.01	2-3	181.25	2.592
4	178.57	1	SLU	-70934.60	69005.00	-2215.74	-70934.60	176186.00	-4476.52	2-3	181.25	2.553

5	238.09	1	SLU	-70691.50	69001.70	-2215.63	-70691.50	176087.00	-4472.08	2-3	181.25	2.551
6	297.62	1	SLU	-70450.60	68159.40	-2188.59	-70450.60	175990.00	-4467.68	2-3	181.25	2.582
7	357.14	1	SLU	-70212.00	66570.00	-2137.55	-70212.00	175894.00	-4463.32	2-3	181.25	2.642
8	416.67	1	SLU	-68610.10	64131.80	-2059.26	-68610.10	175246.00	-4434.12	2-3	181.25	2.732
9	476.19	1	SLU	-67011.90	60977.10	-1957.96	-67011.90	174599.00	-4405.09	2-3	181.25	2.863
10	535.71	1	SLU	-65417.30	57293.50	-1839.68	-65417.30	173954.00	-4376.22	2-3	181.25	3.036
11	595.24	1	SLU	-63826.20	53244.20	-1709.66	-63826.20	173309.00	-4347.52	2-3	181.25	3.254
12	654.76	1	SLU	-62238.50	48969.80	-1572.41	-62238.50	172663.00	-4318.01	2-3	181.25	3.525
13	714.29	1	SLU	-60654.20	44589.40	-1431.76	-60654.20	172018.00	-4288.54	2-3	181.25	3.857
14	773.81	1	SLU	-59073.10	40202.90	-1290.91	-59073.10	171373.00	-4259.23	2-3	181.25	4.262
15	833.33	1	SLU	-57495.20	35892.20	-1152.49	-57495.20	170730.00	-4230.08	2-3	181.25	4.756
16	892.86	1	SLU	-55920.40	31723.30	-1018.63	-55920.40	170088.00	-4201.09	2-3	181.25	5.360
17	952.38	1	SLU	-54348.60	27747.90	-890.98	-54348.60	169446.00	-4171.98	2-3	181.25	6.105
18	1011.90	1	SLU	-52779.60	24005.10	-770.80	-52779.60	168802.00	-4142.15	2-3	181.25	7.030
19	1071.43	1	SLU	-51213.60	20522.90	-658.99	-51213.60	168159.00	-4112.48	2-3	181.25	8.192
20	1130.95	1	SLU	-49650.20	17319.70	-556.13	-49650.20	167518.00	-4082.97	2-3	181.25	9.670
21	1190.48	1	SLU	-48089.50	14405.90	-462.57	-48089.50	166877.00	-4053.62	2-3	181.25	11.581
22	1250.00	1	SLU	-46531.40	11784.90	-378.41	-46531.40	166234.00	-4016.93	2-3	181.25	14.102
23	1309.52	1	SLU	-44975.90	9454.29	-303.57	-44975.90	165590.00	-3978.02	2-3	181.25	17.511
24	1369.05	1	SLU	-43422.70	7407.10	-237.84	-43422.70	164944.00	-3938.33	2-3	181.25	22.263
25	1428.57	1	SLU	-41871.80	5632.52	-180.86	-41871.80	164300.00	-3898.87	2-3	181.25	29.163
26	1488.10	1	SLU	-40323.20	4116.83	-132.19	-40323.20	163657.00	-3859.63	2-3	181.25	39.744
27	1547.62	1	SLU	-38776.80	2844.08	-91.32	-38776.80	163014.00	-3820.61	2-3	181.25	57.303
28	1607.14	1	SLU	-37232.40	1796.65	-57.69	-2571250.00	162323.00	-5506.68	2-3	181.88	69.059
29	1666.67	1	SLU	-35690.00	955.82	-30.69	-2571250.00	161680.00	-5464.62	2-3	181.88	72.044
30	1726.19	1	SLU	-34149.60	302.15	-9.70	-2571250.00	161035.00	-5422.01	2-3	181.88	75.294
31	1785.71	1	SLU	-32610.90	-184.18	5.91	-2571250.00	-160534.00	4953.45	2-3	1.88	78.846
32	1845.24	1	SLU	-31074.10	-523.10	16.80	-2571250.00	-159891.00	4983.14	2-3	1.88	82.746
33	1904.76	1	SLU	-29538.80	-734.47	23.58	-2571250.00	-159250.00	5012.47	2-3	1.88	87.046
34	1964.29	1	SLU	-28005.20	-837.91	26.91	-2571250.00	-158609.00	5041.43	2-3	1.88	91.813
35	2023.81	1	SLU	-26473.10	-852.78	27.38	-2571250.00	-157968.00	5070.03	2-3	1.88	97.127
36	2083.33	1	SLU	-24942.40	-798.08	25.63	-2571250.00	-157328.00	5098.29	2-3	1.88	>100
37	2142.86	1	SLU	-23413.00	-692.47	22.23	-2571250.00	-156685.00	5130.22	2-3	1.88	>100
38	2202.38	1	SLU	-21884.90	-554.28	17.80	-2571250.00	-156043.00	5162.08	2-3	1.88	>100
39	2261.90	1	SLU	-20358.00	-401.57	12.89	-2571250.00	-155401.00	5193.57	2-3	1.88	>100
40	2321.43	1	SLU	-18832.10	-252.17	8.10	-2571250.00	-154759.00	5224.69	2-3	1.88	>100
41	2380.95	1	SLU	-17307.30	-123.74	3.97	-2571250.00	-154118.00	5255.44	2-3	1.88	>100
42	2440.48	1	SLU	-15783.40	-33.85	1.09	-2571250.00	-153476.00	5285.86	2-3	1.88	>100
43	2500.00	1	SLU	-14260.30	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7354.68	387.35	0.85	11.31	7364.87	1.00	32294.70	341797.00	32294.70	4.385
2	59.52	1	SLU	4820.90	253.90	0.85	11.31	4827.58	1.00	32294.70	341899.00	32294.70	6.690
3	119.05	1	SLU	2642.18	139.16	0.85	11.31	2645.84	1.00	32294.70	341864.00	32294.70	12.206
4	178.57	1	SLU	792.31	41.73	0.85	11.31	793.41	1.00	32294.70	341829.00	32294.70	40.704
5	238.09	1	SLU	-755.53	-39.79	0.85	11.31	756.58	1.00	32294.70	341794.00	32294.70	42.685
6	297.62	1	SLU	-2028.35	-106.83	0.85	11.31	2031.16	1.00	32294.70	341759.00	32294.70	15.900
7	357.14	1	SLU	-3375.81	-177.79	0.85	11.31	3380.49	1.00	32294.70	341725.00	32294.70	9.553
8	416.67	1	SLU	-4749.98	-250.17	0.85	11.31	4756.56	1.00	32294.70	341496.00	32294.70	6.790
9	476.19	1	SLU	-5788.20	-304.85	0.85	11.31	5796.22	1.00	32294.70	341267.00	32294.70	5.572
10	535.71	1	SLU	-6532.37	-344.04	0.85	11.31	6541.43	1.00	32294.70	341038.00	32294.70	4.937
11	595.24	1	SLU	-7022.07	-369.83	0.85	11.31	7031.80	1.00	32294.70	340811.00	32294.70	4.593
12	654.76	1	SLU	-7294.26	-384.17	0.85	11.31	7304.37	1.00	32294.70	340583.00	32294.70	4.421
13	714.29	1	SLU	-7383.14	-388.85	0.85	11.31	7393.37	1.00	32294.70	340356.00	32294.70	4.368
14	773.81	1	SLU	-7319.96	-385.52	0.85	11.31	7330.10	1.00	32294.70	340130.00	32294.70	4.406
15	833.33	1	SLU	-7133.07	-375.68	0.85	11.31	7142.95	1.00	32294.70	339904.00	32294.70	4.521
16	892.86	1	SLU	-6847.88	-360.66	0.85	11.31	6857.37	1.00	32294.70	339678.00	32294.70	4.709
17	952.38	1	SLU	-6486.96	-341.65	0.85	11.31	6495.96	1.00	32294.70	339453.00	32294.70	4.972
18	1011.90	1	SLU	-6070.18	-319.70	0.85	11.31	6078.59	1.00	32294.70	339228.00	32294.70	5.313
19	1071.43	1	SLU	-5614.78	-295.71	0.85	11.31	5622.56	1.00	32294.70	339004.00	32294.70	5.744
20	1130.95	1	SLU	-5135.62	-270.48	0.85	11.31	5142.74	1.00	32294.70	338780.00	32294.70	6.280
21	1190.48	1	SLU	-4645.31	-244.66	0.85	11.31	4651.74	1.00	32294.70	338556.00	32294.70	6.942
22	1250.00	1	SLU	-4154.40	-218.80	0.85	11.31	4160.16	1.00	32294.70	338333.00	32294.70	7.763
23	1309.52	1	SLU	-3671.63	-193.37	0.85	11.31	3676.72	1.00	32294.70	338110.00	32294.70	8.784
24	1369.05	1	SLU	-3204.04	-168.75	0.85	11.31	3208.48	1.00	32294.70	337888.00	32294.70	10.065
25	1428.57	1	SLU	-2757.23	-145.22	0.85	11.31	2761.05	1.00	32294.70	337666.00	32294.70	11.697
26	1488.10	1	SLU	-2335.53	-123.01	0.85	11.31	2338.77	1.00	32294.70	337444.00	32294.70	13.808
27	1547.62	1	SLU	-1942.16	-102.29	0.85	11.31	1944.85	1.00	32294.70	337222.00	32294.70	16.605
28	1607.14	1	SLU	-1579.40	-83.18	0.85	11.31	1581.59	1.00	32294.70	337001.00	32294.70	20.419
29	1666.67	1	SLU	-1248.79	-65.77	0.85	11.31	1250.52	1.00	32294.70	336780.00	32294.70	25.825
30	1726.19	1	SLU	-951.20	-50.10	0.85	11.31	952.52	1.00	32294.70	336560.00	32294.70	33.905
31	1785.71	1	SLU	-687.04	-36.18	0.85	11.31	687.99	1.00	32294.70	336339.00	32294.70	46.941
32	1845.24	1	SLU	-456.31	-24.03	0.85	11.31	456.94	1.00	32294.70	336119.00	32294.70	70.676
33	1904.76	1	SLU	-258.75	-13.63	0.85	11.31	259.11	1.00	32294.70	335899.00	32294.70	>100
34	1964.29	1	SLU	-93.93	-4.95	0.85	11.31	94.06	1.00	32294.70	335680.00	32294.70	>100

35	2023.81	1	SLU	38.70	2.04	0.85	11.31	38.75	1.00	32294.70	335460.00	32294.70	>100
36	2083.33	1	SLU	139.72	7.36	0.85	11.31	139.91	1.00	32294.70	335241.00	32294.70	>100
37	2142.86	1	SLU	209.71	11.04	0.85	11.31	210.00	1.00	32294.70	335022.00	32294.70	>100
38	2202.38	1	SLU	249.16	13.12	0.85	11.31	249.51	1.00	32294.70	334803.00	32294.70	>100
39	2261.90	1	SLU	258.51	13.62	0.85	11.31	258.87	1.00	32294.70	334584.00	32294.70	>100
40	2321.43	1	SLU	238.10	12.54	0.85	11.31	238.43	1.00	32294.70	334366.00	32294.70	>100
41	2380.95	1	SLU	188.13	9.91	0.85	11.31	188.39	1.00	32294.70	334147.00	32294.70	>100
42	2440.48	1	SLU	108.75	5.73	0.85	11.31	108.90	1.00	32294.70	333929.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_F <daN/cmq>
44	0.00	2	SLE R	-52378.40	-1479.02	46061.50	47.12	31.42	44.80	1037.87
45	59.52	2	SLE R	-53222.40	-1564.85	48734.50	47.12	31.42	47.55	1125.43
46	119.05	2	SLE R	-53229.20	-1617.33	50368.60	47.12	31.42	49.26	1185.51
47	178.57	2	SLE R	-53237.60	-1641.29	51114.80	47.12	31.42	50.03	1212.93
48	238.09	2	SLE R	-53247.70	-1641.21	51112.30	47.12	31.42	50.03	1212.71
49	297.62	2	SLE R	-53259.40	-1621.17	50488.50	47.12	31.42	49.38	1189.54
50	357.14	2	SLE R	-53272.90	-1583.37	49311.10	47.12	31.42	48.15	1146.01
51	416.67	2	SLE R	-52101.50	-1525.38	47505.00	47.12	31.42	46.33	1094.26
52	476.19	2	SLE R	-50932.90	-1450.34	45168.20	47.12	31.42	43.96	1023.07
53	535.71	2	SLE R	-49767.00	-1362.73	42439.60	47.12	31.42	41.18	937.67
54	595.24	2	SLE R	-48603.80	-1266.42	39440.20	47.12	31.42	38.10	842.71
55	654.76	2	SLE R	-47443.30	-1164.75	36273.90	47.12	31.42	34.85	742.24
56	714.29	2	SLE R	-46285.20	-1060.56	33029.20	43.98	34.56	31.50	639.78
57	773.81	2	SLE R	-45129.70	-956.23	29779.90	43.98	34.56	28.14	538.38
58	833.33	2	SLE R	-43976.50	-853.70	26586.80	40.84	37.70	24.84	440.73
59	892.86	2	SLE R	-42825.80	-754.54	23498.70	40.84	37.70	21.64	349.18
60	952.38	2	SLE R	-41677.30	-659.99	20554.00	40.84	37.70	18.61	265.91
61	1011.90	2	SLE R	-40531.00	-570.96	17781.50	37.70	40.84	15.80	215.14
62	1071.43	2	SLE R	-39387.00	-488.14	15202.10	34.56	43.98	13.26	182.04
63	1130.95	2	SLE R	-38245.00	-411.95	12829.40	31.42	47.12	11.04	152.89
64	1190.48	2	SLE R	-37105.10	-342.65	10671.10	28.27	50.27	9.18	128.23
65	1250.00	2	SLE R	-35967.20	-280.30	8729.56	21.99	56.55	7.68	108.15
66	1309.52	2	SLE R	-34831.20	-224.87	7003.18	15.71	62.83	6.51	92.21
67	1369.05	2	SLE R	-33697.10	-176.18	5486.74	0.00	78.54	5.58	79.56
68	1428.57	2	SLE R	-32564.80	-133.97	4172.24	0.00	78.54	4.81	68.96
69	1488.10	2	SLE R	-31434.20	-97.92	3049.51	0.00	78.54	4.13	59.71
70	1547.62	2	SLE R	-30305.30	-67.65	2106.73	0.00	78.54	3.55	51.72
71	1607.14	2	SLE R	-29178.10	-42.73	1330.85	0.00	78.54	3.06	44.91
72	1666.67	2	SLE R	-28052.40	-22.73	708.01	0.00	78.54	2.65	39.17
73	1726.19	2	SLE R	-26928.20	-7.19	223.81	0.00	78.54	2.30	34.40
74	1785.71	2	SLE R	-25805.50	4.38	-136.43	0.00	78.54	2.17	32.42
75	1845.24	2	SLE R	-24684.10	12.44	-387.48	0.00	78.54	2.21	32.82
76	1904.76	2	SLE R	-23564.10	17.47	-544.05	0.00	78.54	2.20	32.56
77	1964.29	2	SLE R	-22445.30	19.93	-620.68	0.00	78.54	2.15	31.74
78	2023.81	2	SLE R	-21327.80	20.28	-631.69	0.00	78.54	2.06	30.45
79	2083.33	2	SLE R	-20211.40	18.98	-591.17	0.00	78.54	1.95	28.80
80	2142.86	2	SLE R	-19096.00	16.47	-512.94	0.00	78.54	1.82	26.89
81	2202.38	2	SLE R	-17981.70	13.18	-410.57	0.00	78.54	1.67	24.81
82	2261.90	2	SLE R	-16868.40	9.55	-297.46	0.00	78.54	1.53	22.66
83	2321.43	2	SLE R	-15755.90	6.00	-186.79	0.00	78.54	1.38	20.53
84	2380.95	2	SLE R	-14644.30	2.94	-91.66	0.00	78.54	1.24	18.50
85	2440.48	2	SLE R	-13533.50	0.81	-25.07	0.00	78.54	1.11	16.68
86	2500.00	2	SLE R	-12423.50	0.00	0.00	0.00	78.54	1.01	15.15
87	0.00	4	SLE Q	-52378.40	-1479.02	46061.50	47.12	31.42	44.80	1037.87
88	59.52	4	SLE Q	-53222.40	-1564.85	48734.50	47.12	31.42	47.55	1125.43
89	119.05	4	SLE Q	-53229.20	-1617.33	50368.60	47.12	31.42	49.26	1185.51
90	178.57	4	SLE Q	-53237.60	-1641.29	51114.80	47.12	31.42	50.03	1212.93
91	238.09	4	SLE Q	-53247.70	-1641.21	51112.30	47.12	31.42	50.03	1212.71
92	297.62	4	SLE Q	-53259.40	-1621.17	50488.50	47.12	31.42	49.38	1189.54
93	357.14	4	SLE Q	-53272.90	-1583.37	49311.10	47.12	31.42	48.15	1146.01
94	416.67	4	SLE Q	-52101.50	-1525.38	47505.00	47.12	31.42	46.33	1094.26
95	476.19	4	SLE Q	-50932.90	-1450.34	45168.20	47.12	31.42	43.96	1023.07
96	535.71	4	SLE Q	-49767.00	-1362.73	42439.60	47.12	31.42	41.18	937.67
97	595.24	4	SLE Q	-48603.80	-1266.42	39440.20	47.12	31.42	38.10	842.71
98	654.76	4	SLE Q	-47443.30	-1164.75	36273.90	47.12	31.42	34.85	742.24
99	714.29	4	SLE Q	-46285.20	-1060.56	33029.20	43.98	34.56	31.50	639.78
100	773.81	4	SLE Q	-45129.70	-956.23	29779.90	43.98	34.56	28.14	538.38
101	833.33	4	SLE Q	-43976.50	-853.70	26586.80	40.84	37.70	24.84	440.73
102	892.86	4	SLE Q	-42825.80	-754.54	23498.70	40.84	37.70	21.64	349.18
103	952.38	4	SLE Q	-41677.30	-659.99	20554.00	40.84	37.70	18.61	265.91
104	1011.90	4	SLE Q	-40531.00	-570.96	17781.50	37.70	40.84	15.80	215.14
105	1071.43	4	SLE Q	-39387.00	-488.14	15202.10	34.56	43.98	13.26	182.04
106	1130.95	4	SLE Q	-38245.00	-411.95	12829.40	31.42	47.12	11.04	152.89
107	1190.48	4	SLE Q	-37105.10	-342.65	10671.10	28.27	50.27	9.18	128.23
108	1250.00	4	SLE Q	-35967.20	-280.30	8729.56	21.99	56.55	7.68	108.15

109	1309.52	4	SLE Q	-34831.20	-224.87	7003.18	15.71	62.83	6.51	92.21
110	1369.05	4	SLE Q	-33697.10	-176.18	5486.74	0.00	78.54	5.58	79.56
111	1428.57	4	SLE Q	-32564.80	-133.97	4172.24	0.00	78.54	4.81	68.96
112	1488.10	4	SLE Q	-31434.20	-97.92	3049.51	0.00	78.54	4.13	59.71
113	1547.62	4	SLE Q	-30305.30	-67.65	2106.73	0.00	78.54	3.55	51.72
114	1607.14	4	SLE Q	-29178.10	-42.73	1330.85	0.00	78.54	3.06	44.91
115	1666.67	4	SLE Q	-28052.40	-22.73	708.01	0.00	78.54	2.65	39.17
116	1726.19	4	SLE Q	-26928.20	-7.19	223.81	0.00	78.54	2.30	34.40
117	1785.71	4	SLE Q	-25805.50	4.38	-136.43	0.00	78.54	2.17	32.42
118	1845.24	4	SLE Q	-24684.10	12.44	-387.48	0.00	78.54	2.21	32.82
119	1904.76	4	SLE Q	-23564.10	17.47	-544.05	0.00	78.54	2.20	32.56
120	1964.29	4	SLE Q	-22445.30	19.93	-620.68	0.00	78.54	2.15	31.74
121	2023.81	4	SLE Q	-21327.80	20.28	-631.69	0.00	78.54	2.06	30.45
122	2083.33	4	SLE Q	-20211.40	18.98	-591.17	0.00	78.54	1.95	28.80
123	2142.86	4	SLE Q	-19096.00	16.47	-512.94	0.00	78.54	1.82	26.89
124	2202.38	4	SLE Q	-17981.70	13.18	-410.57	0.00	78.54	1.67	24.81
125	2261.90	4	SLE Q	-16868.40	9.55	-297.46	0.00	78.54	1.53	22.66
126	2321.43	4	SLE Q	-15755.90	6.00	-186.79	0.00	78.54	1.38	20.53
127	2380.95	4	SLE Q	-14644.30	2.94	-91.66	0.00	78.54	1.24	18.50
128	2440.48	4	SLE Q	-13533.50	0.81	-25.07	0.00	78.54	1.11	16.68
129	2500.00	4	SLE Q	-12423.50	0.00	0.00	0.00	78.54	1.01	15.15

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ϵ_{sm}	Wk <mm>
87	0.00	4	SLE Q	-52378.40	46061.50	-1479.02	46.00	136.36	0.50	20.00	203.54	21.99	1226.47	1037.87	0.30	0.10
88	59.52	4	SLE Q	-53222.40	48734.50	-1564.85	46.00	136.36	0.50	20.00	204.22	21.99	1233.92	1125.43	0.33	0.11
89	119.05	4	SLE Q	-53229.20	50368.60	-1617.33	46.00	136.36	0.50	20.00	204.74	21.99	1239.66	1185.51	0.35	0.12
90	178.57	4	SLE Q	-53237.60	51114.80	-1641.29	46.00	136.36	0.50	20.00	204.97	21.99	1242.12	1212.93	0.35	0.12
91	238.09	4	SLE Q	-53247.70	51112.30	-1641.21	46.00	136.36	0.50	20.00	204.96	21.99	1242.08	1212.71	0.35	0.12
92	297.62	4	SLE Q	-53259.40	50488.50	-1621.17	46.00	136.36	0.50	20.00	204.77	21.99	1239.97	1189.54	0.35	0.12
93	357.14	4	SLE Q	-53272.90	49311.10	-1583.37	46.00	136.36	0.50	20.00	204.40	21.99	1235.84	1146.01	0.33	0.12
94	416.67	4	SLE Q	-52101.50	47505.00	-1525.38	46.00	136.36	0.50	20.00	204.15	21.99	1233.16	1094.26	0.32	0.11
95	476.19	4	SLE Q	-50932.90	45168.20	-1450.34	46.00	136.36	0.50	20.00	203.69	21.99	1228.06	1023.07	0.30	0.10
96	535.71	4	SLE Q	-49767.00	42439.60	-1362.73	46.00	136.36	0.50	20.00	203.00	21.99	1220.50	937.67	0.27	0.09
97	595.24	4	SLE Q	-48603.80	39440.20	-1266.42	46.00	136.36	0.50	20.00	202.07	21.99	1210.25	842.71	0.25	0.08
98	654.76	4	SLE Q	-47443.30	36273.90	-1164.75	46.00	136.36	0.50	20.00	200.85	21.99	1196.90	742.24	0.22	0.07
99	714.29	4	SLE Q	-46285.20	33029.20	-1060.56	46.00	136.36	0.50	20.00	199.30	21.99	1179.79	639.78	0.19	0.06
100	773.81	4	SLE Q	-45129.70	29779.90	-956.23	46.00	136.36	0.50	20.00	197.31	21.99	1157.91	538.38	0.16	0.05
101	833.33	4	SLE Q	-43976.50	26586.80	-853.70	46.00	136.36	0.50	20.00	194.74	21.99	1129.65	440.73	0.13	0.04
102	892.86	4	SLE Q	-42825.80	23498.70	-754.54	46.00	136.36	0.50	20.00	191.40	21.99	1092.96	349.18	0.10	0.03
103	952.38	4	SLE Q	-41677.30	20554.00	-659.99	46.00	136.36	0.50	20.00	202.76	18.85	1043.85	265.91	0.08	0.03
104	1011.90	4	SLE Q	-40531.00	17781.50	-570.96	46.00	136.36	0.50	20.00	216.38	15.71	976.89	192.91	0.06	0.02
105	1071.43	4	SLE Q	-39387.00	15202.10	-488.14	46.00	136.36	0.50	20.00	204.68	15.71	884.96	131.87	0.04	0.01
106	1130.95	4	SLE Q	-38245.00	12829.40	-411.95	46.00	136.36	0.50	20.00	187.37	15.71	749.04	83.79	0.02	0.01
107	1190.48	4	SLE Q	-37105.10	10671.10	-342.65	46.00	136.36	0.50	20.00	177.67	12.57	538.29	48.46	0.01	0.00
108	1250.00	4	SLE Q	-35967.20	8729.56	-280.30	46.00	136.36	0.50	20.00	160.19	9.42	321.33	24.13	0.01	0.00
130	0.00	3	SLE F	-52378.40	46061.50	-1479.02	46.00	136.36	0.50	20.00	203.54	21.99	1226.47	1037.87	0.30	0.10
131	59.52	3	SLE F	-53222.40	48734.50	-1564.85	46.00	136.36	0.50	20.00	204.22	21.99	1233.92	1125.43	0.33	0.11
132	119.05	3	SLE F	-53229.20	50368.60	-1617.33	46.00	136.36	0.50	20.00	204.74	21.99	1239.66	1185.51	0.35	0.12
133	178.57	3	SLE F	-53237.60	51114.80	-1641.29	46.00	136.36	0.50	20.00	204.97	21.99	1242.12	1212.93	0.35	0.12
134	238.09	3	SLE F	-53247.70	51112.30	-1641.21	46.00	136.36	0.50	20.00	204.96	21.99	1242.08	1212.71	0.35	0.12
135	297.62	3	SLE F	-53259.40	50488.50	-1621.17	46.00	136.36	0.50	20.00	204.77	21.99	1239.97	1189.54	0.35	0.12
136	357.14	3	SLE F	-53272.90	49311.10	-1583.37	46.00	136.36	0.50	20.00	204.40	21.99	1235.84	1146.01	0.33	0.12
137	416.67	3	SLE F	-52101.50	47505.00	-1525.38	46.00	136.36	0.50	20.00	204.15	21.99	1233.16	1094.26	0.32	0.11
138	476.19	3	SLE F	-50932.90	45168.20	-1450.34	46.00	136.36	0.50	20.00	203.69	21.99	1228.06	1023.07	0.30	0.10
139	535.71	3	SLE F	-49767.00	42439.60	-1362.73	46.00	136.36	0.50	20.00	203.00	21.99	1220.50	937.67	0.27	0.09
140	595.24	3	SLE F	-48603.80	39440.20	-1266.42	46.00	136.36	0.50	20.00	202.07	21.99	1210.25	842.71	0.25	0.08
141	654.76	3	SLE F	-47443.30	36273.90	-1164.75	46.00	136.36	0.50	20.00	200.85	21.99	1196.90	742.24	0.22	0.07
142	714.29	3	SLE F	-46285.20	33029.20	-1060.56	46.00	136.36	0.50	20.00	199.30	21.99	1179.79	639.78	0.19	0.06
143	773.81	3	SLE F	-45129.70	29779.90	-956.23	46.00	136.36	0.50	20.00	197.31	21.99	1157.91	538.38	0.16	0.05
144	833.33	3	SLE F	-43976.50	26586.80	-853.70	46.00	136.36	0.50	20.00	194.74	21.99	1129.65	440.73	0.13	0.04
145	892.86	3	SLE F	-42825.80	23498.70	-754.54	46.00	136.36	0.50	20.00	191.40	21.99	1092.96	349.18	0.10	0.03
146	952.38	3	SLE F	-41677.30	20554.00	-659.99	46.00	136.36	0.50	20.00	202.76	18.85	1043.85	265.91	0.08	0.03
147	1011.90	3	SLE F	-40531.00	17781.50	-570.96	46.00	136.36	0.50	20.00	216.38	15.71	976.89	192.91	0.06	0.02
148	1071.43	3	SLE F	-39387.00	15202.10	-488.14	46.00	136.36	0.50	20.00	204.68	15.71	884.96	131.87	0.04	0.01
149	1130.95	3	SLE F	-38245.00	12829.40	-411.95	46.00	136.36	0.50	20.00	187.37	15.71	749.04	83.79	0.02	0.01
150	1190.48	3	SLE F	-37105.10	10671.10	-342.65	46.00	136.36	0.50	20.00	177.67	12.57	538.29	48.46	0.01	0.00
151	1250.00	3	SLE F	-35967.20	8729.56	-280.30	46.00	136.36	0.50	20.00	160.19	9.42	321.33	24.13	0.01	0.00

Verifiche principali

Caso	Tipo
5	SLU N cost - min. sic.
13	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
47	C.Rare - Sc min (max compr.),C.Rare - Sf max (max traz.),C.Rare - Sf min (max compr.)
68	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf max (max traz.),C.Q.Per. - Sf min (max compr.),C.Q.Per. - Wk Max

111	C.Q.Per. - Sc max (min. compr.)
133	C.Freq - Wk Max

Palo n. 10

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 10 (-17)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	49182.60	7463.04	0.38	59871.20	47.77
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	49182.60	7463.04	0.38	59871.20	47.77
2	2	SLE R	RVN	36431.60	5528.18	0.28	44349.10	35.38
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	36431.60	5528.18	0.28	44349.10	35.38
3	3	SLE F	RVN	36431.60	5528.18	0.28	44349.10	35.38
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	36431.60	5528.18	0.28	44349.10	35.38
4	4	SLE Q	RVN	36431.60	5528.18	0.28	44349.10	35.38
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	36431.60	5528.18	0.28	44349.10	35.38

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-49182.60	-7463.04	-0.38	-59871.20	-47.77
2	2	SLE R	1	-36431.60	-5528.18	-0.28	-44349.10	-35.38
3	3	SLE F	1	-36431.60	-5528.18	-0.28	-44349.10	-35.38
4	4	SLE Q	1	-36431.60	-5528.18	-0.28	-44349.10	-35.38

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-49182.60	59618.00	-47.57	-49182.60	167390.00	-593.26	2-3	180.00	2.808
2	59.52	1	SLU	-50048.90	63300.60	-50.51	-50048.90	167747.00	-611.63	2-3	180.00	2.650
3	119.05	1	SLU	-50100.00	65603.90	-52.34	-50100.00	167768.00	-612.72	2-3	180.00	2.557
4	178.57	1	SLU	-50152.60	66726.90	-53.24	-50152.60	167790.00	-613.84	2-3	180.00	2.515
5	238.09	1	SLU	-50206.80	66853.10	-53.34	-50206.80	167812.00	-614.99	2-3	180.00	2.510
6	297.62	1	SLU	-50262.60	66150.70	-52.78	-50262.60	167835.00	-616.18	2-3	180.00	2.537
7	357.14	1	SLU	-50320.00	64708.60	-51.63	-50320.00	167859.00	-617.40	2-3	180.00	2.594
8	416.67	1	SLU	-49223.70	62423.80	-49.81	-49223.70	167407.00	-594.13	2-3	180.00	2.682
9	476.19	1	SLU	-48130.00	59425.60	-47.41	-48130.00	166955.00	-571.02	2-3	180.00	2.809
10	535.71	1	SLU	-47038.80	55898.20	-44.60	-47038.80	166505.00	-548.08	2-3	180.00	2.979
11	595.24	1	SLU	-45950.30	52001.90	-41.49	-45950.30	166055.00	-525.29	2-3	180.00	3.193
12	654.76	1	SLU	-44864.10	47875.10	-38.20	-44864.10	165606.00	-502.06	2-3	180.00	3.459
13	714.29	1	SLU	-43780.40	43635.20	-34.81	-43780.40	165156.00	-477.66	2-3	180.00	3.785
14	773.81	1	SLU	-42699.00	39380.80	-31.42	-42699.00	164707.00	-453.43	2-3	180.00	4.182
15	833.33	1	SLU	-41619.90	35192.80	-28.08	-41619.90	164259.00	-429.36	2-3	180.00	4.667
16	892.86	1	SLU	-40543.10	31136.90	-24.84	-40543.10	163811.00	-405.45	2-3	180.00	5.261
17	952.38	1	SLU	-39468.40	27264.20	-21.75	-39468.40	163365.00	-381.70	2-3	180.00	5.992
18	1011.90	1	SLU	-38395.80	23613.80	-18.84	-38395.80	162919.00	-358.11	2-3	180.00	6.899
19	1071.43	1	SLU	-37325.30	20213.90	-16.13	-37325.30	162474.00	-334.67	2-3	180.00	8.038
20	1130.95	1	SLU	-36256.80	17083.20	-13.63	-36256.80	162029.00	-311.38	2-3	180.00	9.485
21	1190.48	1	SLU	-35190.30	14232.40	-11.36	-35190.30	161584.00	-286.80	2-3	180.00	11.353
22	1250.00	1	SLU	-34125.60	11665.40	-9.31	-34125.60	161139.00	-261.82	2-3	180.00	13.813
23	1309.52	1	SLU	-33062.80	9380.40	-7.48	-33062.80	160695.00	-236.99	2-3	180.00	17.131
24	1369.05	1	SLU	-32001.70	7371.01	-5.88	-32001.70	160251.00	-212.33	2-3	180.00	21.741

25	1428.57	1	SLU	-30942.40	5627.09	-4.49	-30942.40	159808.00	-187.81	2-3	180.00	28.400
26	1488.10	1	SLU	-29884.70	4135.56	-3.30	-29884.70	159366.00	-163.44	2-3	180.00	38.536
27	1547.62	1	SLU	-28828.60	2881.11	-2.30	-28828.60	158924.00	-139.22	2-3	180.00	55.161
28	1607.14	1	SLU	-27774.10	1846.79	-1.47	-27774.10	158483.00	-115.15	2-3	180.00	85.815
29	1666.67	1	SLU	-26721.00	1014.50	-0.81	-2571250.00	158042.00	-91.21	2-3	180.00	96.226
30	1726.19	1	SLU	-25669.40	365.42	-0.29	-2571250.00	157600.00	-65.47	2-3	180.00	>100
31	1785.71	1	SLU	-24619.20	-119.67	0.10	-2571250.00	-157158.00	-39.75	2-3	0.00	>100
32	1845.24	1	SLU	-23570.20	-460.16	0.37	-2571250.00	-156717.00	-14.20	2-3	0.00	>100
33	1904.76	1	SLU	-22522.60	-675.34	0.54	-2571250.00	-156276.00	11.22	2-3	0.00	>100
34	1964.29	1	SLU	-21476.10	-784.36	0.63	-2571250.00	-155836.00	36.49	2-3	0.00	>100
35	2023.81	1	SLU	-20430.80	-806.05	0.64	-2571250.00	-155396.00	61.62	2-3	0.00	>100
36	2083.33	1	SLU	-19386.60	-758.95	0.61	-2571250.00	-154956.00	86.60	2-3	0.00	>100
37	2142.86	1	SLU	-18343.50	-661.28	0.53	-2571250.00	-154517.00	111.44	2-3	0.00	>100
38	2202.38	1	SLU	-17301.30	-530.94	0.42	-2571250.00	-154078.00	136.19	2-3	0.00	>100
39	2261.90	1	SLU	-16260.10	-385.56	0.31	-2571250.00	-153638.00	162.94	2-3	0.00	>100
40	2321.43	1	SLU	-15219.70	-242.56	0.19	-2571250.00	-153198.00	189.54	2-3	0.00	>100
41	2380.95	1	SLU	-14180.10	-119.21	0.10	-2571250.00	-152758.00	216.00	2-3	0.00	>100
42	2440.48	1	SLU	-13141.30	-32.65	0.03	-2571250.00	-152318.00	242.32	2-3	0.00	>100
43	2500.00	1	SLU	-12103.20	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7463.05	0.38	0.85	11.31	7463.05	1.00	32294.70	338713.00	32294.70	4.327
2	59.52	1	SLU	4970.43	0.25	0.85	11.31	4970.43	1.00	32294.70	338837.00	32294.70	6.497
3	119.05	1	SLU	2824.52	0.14	0.85	11.31	2824.52	1.00	32294.70	338844.00	32294.70	11.434
4	178.57	1	SLU	1000.05	0.05	0.85	11.31	1000.05	1.00	32294.70	338852.00	32294.70	32.293
5	238.09	1	SLU	-528.91	-0.03	0.85	11.31	528.91	1.00	32294.70	338860.00	32294.70	61.059
6	297.62	1	SLU	-1788.54	-0.09	0.85	11.31	1788.54	1.00	32294.70	338868.00	32294.70	18.056
7	357.14	1	SLU	-3125.56	-0.16	0.85	11.31	3125.56	1.00	32294.70	338876.00	32294.70	10.332
8	416.67	1	SLU	-4492.64	-0.23	0.85	11.31	4492.64	1.00	32294.70	338719.00	32294.70	7.188
9	476.19	1	SLU	-5529.74	-0.28	0.85	11.31	5529.74	1.00	32294.70	338562.00	32294.70	5.840
10	535.71	1	SLU	-6277.70	-0.32	0.85	11.31	6277.70	1.00	32294.70	338406.00	32294.70	5.144
11	595.24	1	SLU	-6775.14	-0.34	0.85	11.31	6775.14	1.00	32294.70	338250.00	32294.70	4.767
12	654.76	1	SLU	-7058.19	-0.36	0.85	11.31	7058.19	1.00	32294.70	338094.00	32294.70	4.575
13	714.29	1	SLU	-7160.27	-0.36	0.85	11.31	7160.27	1.00	32294.70	337939.00	32294.70	4.510
14	773.81	1	SLU	-7112.01	-0.36	0.85	11.31	7112.01	1.00	32294.70	337784.00	32294.70	4.541
15	833.33	1	SLU	-6941.16	-0.35	0.85	11.31	6941.16	1.00	32294.70	337630.00	32294.70	4.653
16	892.86	1	SLU	-6672.66	-0.34	0.85	11.31	6672.66	1.00	32294.70	337475.00	32294.70	4.840
17	952.38	1	SLU	-6328.68	-0.32	0.85	11.31	6328.68	1.00	32294.70	337322.00	32294.70	5.103
18	1011.90	1	SLU	-5928.72	-0.30	0.85	11.31	5928.72	1.00	32294.70	337168.00	32294.70	5.447
19	1071.43	1	SLU	-5489.77	-0.28	0.85	11.31	5489.77	1.00	32294.70	337015.00	32294.70	5.883
20	1130.95	1	SLU	-5026.45	-0.25	0.85	11.31	5026.45	1.00	32294.70	336862.00	32294.70	6.425
21	1190.48	1	SLU	-4551.22	-0.23	0.85	11.31	4551.22	1.00	32294.70	336709.00	32294.70	7.096
22	1250.00	1	SLU	-4074.50	-0.21	0.85	11.31	4074.50	1.00	32294.70	336556.00	32294.70	7.926
23	1309.52	1	SLU	-3604.93	-0.18	0.85	11.31	3604.93	1.00	32294.70	336404.00	32294.70	8.958
24	1369.05	1	SLU	-3149.50	-0.16	0.85	11.31	3149.50	1.00	32294.70	336252.00	32294.70	10.254
25	1428.57	1	SLU	-2713.78	-0.14	0.85	11.31	2713.78	1.00	32294.70	336100.00	32294.70	11.900
26	1488.10	1	SLU	-2302.08	-0.12	0.85	11.31	2302.08	1.00	32294.70	335949.00	32294.70	14.028
27	1547.62	1	SLU	-1917.64	-0.10	0.85	11.31	1917.64	1.00	32294.70	335797.00	32294.70	16.841
28	1607.14	1	SLU	-1562.76	-0.08	0.85	11.31	1562.76	1.00	32294.70	335646.00	32294.70	20.665
29	1666.67	1	SLU	-1239.01	-0.06	0.85	11.31	1239.01	1.00	32294.70	335496.00	32294.70	26.065
30	1726.19	1	SLU	-947.30	-0.05	0.85	11.31	947.30	1.00	32294.70	335345.00	32294.70	34.092
31	1785.71	1	SLU	-688.07	-0.03	0.85	11.31	688.07	1.00	32294.70	335195.00	32294.70	46.935
32	1845.24	1	SLU	-461.38	-0.02	0.85	11.31	461.38	1.00	32294.70	335044.00	32294.70	69.997
33	1904.76	1	SLU	-267.00	-0.01	0.85	11.31	267.00	1.00	32294.70	334894.00	32294.70	>100
34	1964.29	1	SLU	-104.55	-0.01	0.85	11.31	104.55	1.00	32294.70	334744.00	32294.70	>100
35	2023.81	1	SLU	26.48	0.00	0.85	11.31	26.48	1.00	32294.70	334595.00	32294.70	>100
36	2083.33	1	SLU	126.66	0.01	0.85	11.31	126.66	1.00	32294.70	334445.00	32294.70	>100
37	2142.86	1	SLU	196.50	0.01	0.85	11.31	196.50	1.00	32294.70	334296.00	32294.70	>100
38	2202.38	1	SLU	236.51	0.01	0.85	11.31	236.51	1.00	32294.70	334146.00	32294.70	>100
39	2261.90	1	SLU	247.09	0.01	0.85	11.31	247.09	1.00	32294.70	333997.00	32294.70	>100
40	2321.43	1	SLU	228.56	0.01	0.85	11.31	228.56	1.00	32294.70	333848.00	32294.70	>100
41	2380.95	1	SLU	181.12	0.01	0.85	11.31	181.12	1.00	32294.70	333699.00	32294.70	>100
42	2440.48	1	SLU	104.92	0.01	0.85	11.31	104.92	1.00	32294.70	333550.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-36431.60	-35.23	44161.50	47.12	31.42	43.79	1169.54
45	59.52	2	SLE R	-37386.50	-37.41	46889.30	47.12	31.42	46.57	1258.91
46	119.05	2	SLE R	-37614.40	-38.77	48595.50	47.12	31.42	48.32	1319.76
47	178.57	2	SLE R	-37843.50	-39.44	49427.30	47.12	31.42	49.17	1347.87
48	238.09	2	SLE R	-38073.80	-39.51	49520.80	47.12	31.42	49.25	1348.30
49	297.62	2	SLE R	-38305.40	-39.10	49000.50	47.12	31.42	48.70	1325.73
50	357.14	2	SLE R	-38538.10	-38.24	47932.30	47.12	31.42	47.59	1282.67
51	416.67	2	SLE R	-37741.10	-36.89	46239.90	47.12	31.42	45.88	1229.93

32	476.19	2	Sud	-36966.30	-25.12	44019.00	47.12	31.42	42.62	1_37.43
33	335.71	2	Sud	-36_53.40	-23.04	41406.10	47.12	31.42	40.05	1070.33
34	285.24	1	OVEST	-3386.40	30.02	3807.40	47.12	31.42	38.00	976.24
35	647.06	1	OVEST	-2276.00	78.24	2276.00	47.12	31.42	37.87	869.44
36	476.09	2	OVEST	-37386.10	-25.09	37033.40	47.12	31.42	41.62	1_71.99
37	335.81	2	Sud	-37000.30	-23.07	36470.90	47.12	31.42	40.04	1_68.10
38	833.33	2	Sud	-32217.10	-20.38	26083.30	47.12	31.42	33.18	836.77
39	892.30	2	Sud	-31435.20	-18.41	23084.30	40.98	34.76	32.06	826.30
40	945.14	1	OVEST	-2855.20	16.11	2497.20	43.98	41.26	19.08	368.24
41	1071.40	1	OVEST	-2878.40	18.14	1797.20	40.84	40.20	16.17	259.41
42	1027.43	2	Sud	-27499.40	-17.32	1247.30	40.84	30.20	13.65	204.62
43	1130.94	2	Sud	-28034.00	-17.10	1256.70	33.70	40.84	11.38	161.64
44	1_30.41	2	Sud	-27350.10	-8.41	10342.20	24.56	43.38	9.18	126.37
45	1230.00	2	Sud	-26777.70	-8.19	8661.04	21.42	47.12	7.42	103.17
46	1309.42	1	OVEST	-2808.20	9.41	698.80	30.27	50.27	6.04	87.42
47	1369.06	1	OVEST	-2787.10	7.16	579.60	18.85	54.69	4.90	70.06
48	1248.52	2	Sud	-24468.90	-15.09	6168.01	0.00	28.26	2.75	39.14
49	1288.10	2	Sud	-25107.00	-15.44	7005.70	0.00	28.26	3.57	50.47
50	1347.32	2	Sud	-22336.30	-1.70	2_36.13	0.00	31.34	2.07	42.90
51	1407.14	2	Sud	-22_71.90	-1.09	1267.90	0.00	31.34	2.51	36.04
52	1468.62	1	OVEST	-2708.20	0.00	80.48	0.00	28.26	1.14	31.08
53	1378.14	1	OVEST	-2868.80	0.22	170.68	0.00	28.26	1.80	50.03
54	1385.21	2	Sud	-19885.30	0.03	-88.66	0.00	28.26	1.66	46.90
55	1845.24	2	Sud	-19_25.30	0.27	-269.36	0.00	31.34	1.73	25.71
56	1304.76	2	Sud	-18266.90	0.41	-300.23	0.00	31.34	1.75	25.91
57	1382.24	1	OVEST	-1839.00	0.46	87.00	0.00	28.26	1.78	25.23
58	2073.21	1	OVEST	-1885.00	0.46	297.07	0.00	28.26	1.88	27.24
59	2081.39	2	Sud	-17096.00	0.45	-269.19	0.00	28.26	1.60	23.63
60	2120.36	2	Sud	-17360.30	0.39	-288.82	0.00	28.26	1.50	22.12
61	2202.33	2	Sud	-14796.20	0.31	-293.23	0.00	31.34	1.38	20.22
62	2261.90	2	Sud	-12832.90	0.23	-295.90	0.00	31.34	1.27	18.37
63	2311.46	1	OVEST	-1808.00	0.14	79.68	0.00	28.26	1.16	17.71
64	2380.44	1	OVEST	-1780.40	0.07	88.20	0.00	28.26	1.06	15.64
65	2440.48	2	Sud	-11276.40	0.02	-26.14	0.00	28.26	0.95	14.03
66	2500.00	2	Sud	-10835.50	0.00	0.00	0.00	28.26	0.88	11.00
67	0.00	4	Sud	-36431.30	-25.23	44181.20	47.12	31.42	42.78	1_69.24
68	39.22	4	Sud	-37296.20	-27.41	46880.30	47.12	31.42	46.57	1838.81
69	119.06	1	OVEST	-2767.40	38.02	4896.60	47.12	31.42	48.64	1919.26
70	178.09	1	OVEST	-2784.60	39.44	4947.00	47.12	31.42	48.17	1901.60
71	238.09	2	Sud	-38071.80	-28.41	49400.80	47.12	31.42	49.05	1948.00
72	297.67	2	Sud	-38005.40	-28.10	49000.20	47.12	31.42	48.70	1935.07
73	337.14	4	Sud	-38738.10	-28.24	47832.30	47.12	31.42	47.50	1282.37
74	416.07	4	Sud	-37761.10	-26.19	46239.80	47.12	31.42	45.88	1228.93
75	476.14	1	OVEST	-2878.60	35.12	4707.60	47.12	31.42	46.64	1_27.42
76	535.21	1	OVEST	-2858.40	33.04	4706.70	47.12	31.42	46.59	1070.16
77	595.24	2	Sud	-38360.40	-28.03	50278.90	47.12	31.42	49.00	1971.74
78	654.78	2	Sud	-38271.30	-27.79	50260.00	47.12	31.42	48.87	1948.99
79	716.29	4	Sud	-33786.10	-25.79	38222.40	47.12	31.42	31.64	763.99
80	773.31	4	Sud	-33000.70	-23.27	28_70.90	47.12	31.42	28.39	678.12
81	838.11	1	OVEST	-2777.70	30.10	26068.20	47.12	31.42	44.78	1_07.09
82	894.14	1	OVEST	-2745.20	28.40	26064.10	43.98	34.06	47.06	1_06.06
83	953.28	2	Sud	-39055.00	-16.11	20795.20	43.98	34.20	14.08	310.26
84	1017.90	2	Sud	-37878.40	-15.86	17247.20	40.84	30.20	11.27	249.44
85	1071.43	4	Sud	-28000.40	-11.92	14073.30	40.84	37.70	12.65	206.01
86	1_30.92	4	Sud	-28126.00	-10.10	12656.20	37.70	41.84	11.28	173.04
87	1180.14	1	OVEST	-2850.70	8.41	10240.40	37.68	46.98	9.18	146.20
88	1230.00	1	OVEST	-2877.00	8.14	8867.00	37.70	50.27	8.02	126.19
89	1288.57	2	Sud	-27406.50	-5.54	6468.42	28.26	50.27	4.09	86.40
90	1348.02	2	Sud	-27277.10	-5.28	6260.07	28.26	50.27	3.95	83.61
91	1428.27	4	Sud	-24468.90	-3.33	4_89.21	0.00	31.34	4.15	39.14
92	1488.10	4	Sud	-23792.20	-2.44	3083.38	0.00	31.34	3.51	30.42
93	1547.64	1	OVEST	-2788.20	1.00	1887.40	0.00	28.26	1.97	26.04
94	1607.14	1	OVEST	-2777.40	1.04	1887.40	0.00	28.26	1.97	28.04
95	1666.62	2	Sud	-21428.50	-0.60	257.40	0.00	28.26	2.73	37.38
96	1726.19	2	Sud	-20949.60	-0.27	270.60	0.00	28.26	1.80	24.60
97	1785.71	4	Sud	-13885.70	0.27	-88.03	0.00	31.34	1.66	24.37
98	1845.24	1	OVEST	-1835.80	0.29	370.06	0.00	28.26	1.78	25.01
99	1904.76	1	OVEST	-1838.40	0.40	400.20	0.00	28.26	1.76	25.41
100	1964.29	2	Sud	-17139.00	0.46	-287.60	0.00	28.26	1.73	25.22
101	2023.81	2	Sud	-17050.00	0.48	-287.60	0.00	28.26	1.68	24.24
102	2083.33	4	Sud	-16036.00	0.41	-262.10	0.00	31.34	1.60	23.27
103	2142.86	4	Sud	-17260.30	0.39	-480.34	0.00	31.34	1.50	22.11
104	2202.38	1	OVEST	-1888.80	0.31	398.20	0.00	28.26	1.39	20.14
105	2261.90	1	OVEST	-1884.40	0.24	385.40	0.00	28.26	1.27	18.40
106	2321.43	2	Sud	-17080.00	0.14	-278.60	0.00	28.26	1.16	16.71
107	2380.96	2	Sud	-17057.90	0.07	-88.20	0.00	28.26	1.05	15.62

128	2440.48	4	SLE Q	-11576.40	0.02	-24.19	0.00	78.54	0.95	14.28
129	2500.00	4	SLE Q	-10825.60	0.00	0.00	0.00	78.54	0.88	13.20

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-36431.60	44161.50	-35.23	46.00	136.36	0.50	20.00	207.94	21.99	1274.80	1169.54	0.34	0.12
88	59.52	4	SLE Q	-37386.50	46889.30	-37.41	46.00	136.36	0.50	20.00	208.30	21.99	1278.83	1258.91	0.37	0.13
89	119.05	4	SLE Q	-37614.40	48595.50	-38.77	46.00	136.36	0.50	20.00	208.61	21.99	1282.18	1319.75	0.38	0.14
90	178.57	4	SLE Q	-37843.50	49427.30	-39.44	46.00	136.36	0.50	20.00	208.72	21.99	1283.38	1347.87	0.39	0.14
91	238.09	4	SLE Q	-38073.80	49520.80	-39.51	46.00	136.36	0.50	20.00	208.68	21.99	1282.93	1348.30	0.39	0.14
92	297.62	4	SLE Q	-38305.40	49000.50	-39.10	46.00	136.36	0.50	20.00	208.51	21.99	1281.08	1325.73	0.39	0.14
93	357.14	4	SLE Q	-38538.10	47932.30	-38.24	46.00	136.36	0.50	20.00	208.22	21.99	1277.86	1282.67	0.37	0.13
94	416.67	4	SLE Q	-37741.10	46239.90	-36.89	46.00	136.36	0.50	20.00	208.05	21.99	1276.08	1229.93	0.36	0.13
95	476.19	4	SLE Q	-36946.30	44019.00	-35.12	46.00	136.36	0.50	20.00	207.75	21.99	1272.69	1157.43	0.34	0.12
96	535.71	4	SLE Q	-36153.40	41406.10	-33.04	46.00	136.36	0.50	20.00	207.29	21.99	1267.66	1070.36	0.31	0.11
97	595.24	4	SLE Q	-35362.40	38519.90	-30.73	46.00	136.36	0.50	20.00	206.67	21.99	1260.86	973.24	0.28	0.10
98	654.76	4	SLE Q	-34573.30	35463.00	-28.29	46.00	136.36	0.50	20.00	205.87	21.99	1252.04	869.99	0.25	0.09
99	714.29	4	SLE Q	-33786.10	32322.40	-25.79	46.00	136.36	0.50	20.00	204.84	21.99	1240.79	763.99	0.22	0.08
100	773.81	4	SLE Q	-33000.70	29170.90	-23.27	46.00	136.36	0.50	20.00	203.55	21.99	1226.52	658.10	0.19	0.07
101	833.33	4	SLE Q	-32217.10	26068.80	-20.80	46.00	136.36	0.50	20.00	201.90	21.99	1208.39	554.77	0.16	0.06
102	892.86	4	SLE Q	-31435.20	23064.30	-18.40	46.00	136.36	0.50	20.00	199.80	21.99	1185.34	456.06	0.13	0.05
103	952.38	4	SLE Q	-30655.00	20195.70	-16.11	46.00	136.36	0.50	20.00	197.11	21.99	1155.79	363.75	0.11	0.04
104	1011.90	4	SLE Q	-29876.40	17491.70	-13.96	46.00	136.36	0.50	20.00	210.53	18.85	1117.08	279.44	0.08	0.03
105	1071.43	4	SLE Q	-29099.40	14973.30	-11.95	46.00	136.36	0.50	20.00	204.83	18.85	1063.42	204.65	0.06	0.02
106	1130.95	4	SLE Q	-28324.00	12654.20	-10.10	46.00	136.36	0.50	20.00	196.72	18.85	986.91	140.94	0.04	0.01
107	1190.48	4	SLE Q	-27550.10	10542.50	-8.41	46.00	136.36	0.50	20.00	203.60	15.71	876.48	89.69	0.03	0.01
108	1250.00	4	SLE Q	-26777.70	8641.04	-6.89	46.00	136.36	0.50	20.00	202.80	12.57	696.15	51.58	0.02	0.01
109	1309.52	4	SLE Q	-26006.70	6948.44	-5.54	46.00	136.36	0.50	20.00	184.83	9.42	437.44	25.73	0.01	0.00
110	1369.05	4	SLE Q	-25237.10	5460.01	-4.36	46.00	136.36	0.50	20.00	217.24	3.14	196.72	9.46	0.00	0.00
130	0.00	3	SLE F	-36431.60	44161.50	-35.23	46.00	136.36	0.50	20.00	207.94	21.99	1274.80	1169.54	0.34	0.12
131	59.52	3	SLE F	-37386.50	46889.30	-37.41	46.00	136.36	0.50	20.00	208.30	21.99	1278.83	1258.91	0.37	0.13
132	119.05	3	SLE F	-37614.40	48595.50	-38.77	46.00	136.36	0.50	20.00	208.61	21.99	1282.18	1319.75	0.38	0.14
133	178.57	3	SLE F	-37843.50	49427.30	-39.44	46.00	136.36	0.50	20.00	208.72	21.99	1283.38	1347.87	0.39	0.14
134	238.09	3	SLE F	-38073.80	49520.80	-39.51	46.00	136.36	0.50	20.00	208.68	21.99	1282.93	1348.30	0.39	0.14
135	297.62	3	SLE F	-38305.40	49000.50	-39.10	46.00	136.36	0.50	20.00	208.51	21.99	1281.08	1325.73	0.39	0.14
136	357.14	3	SLE F	-38538.10	47932.30	-38.24	46.00	136.36	0.50	20.00	208.22	21.99	1277.86	1282.67	0.37	0.13
137	416.67	3	SLE F	-37741.10	46239.90	-36.89	46.00	136.36	0.50	20.00	208.05	21.99	1276.08	1229.93	0.36	0.13
138	476.19	3	SLE F	-36946.30	44019.00	-35.12	46.00	136.36	0.50	20.00	207.75	21.99	1272.69	1157.43	0.34	0.12
139	535.71	3	SLE F	-36153.40	41406.10	-33.04	46.00	136.36	0.50	20.00	207.29	21.99	1267.66	1070.36	0.31	0.11
140	595.24	3	SLE F	-35362.40	38519.90	-30.73	46.00	136.36	0.50	20.00	206.67	21.99	1260.86	973.24	0.28	0.10
141	654.76	3	SLE F	-34573.30	35463.00	-28.29	46.00	136.36	0.50	20.00	205.87	21.99	1252.04	869.99	0.25	0.09
142	714.29	3	SLE F	-33786.10	32322.40	-25.79	46.00	136.36	0.50	20.00	204.84	21.99	1240.79	763.99	0.22	0.08
143	773.81	3	SLE F	-33000.70	29170.90	-23.27	46.00	136.36	0.50	20.00	203.55	21.99	1226.52	658.10	0.19	0.07
144	833.33	3	SLE F	-32217.10	26068.80	-20.80	46.00	136.36	0.50	20.00	201.90	21.99	1208.39	554.77	0.16	0.06
145	892.86	3	SLE F	-31435.20	23064.30	-18.40	46.00	136.36	0.50	20.00	199.80	21.99	1185.34	456.06	0.13	0.05
146	952.38	3	SLE F	-30655.00	20195.70	-16.11	46.00	136.36	0.50	20.00	197.11	21.99	1155.79	363.75	0.11	0.04
147	1011.90	3	SLE F	-29876.40	17491.70	-13.96	46.00	136.36	0.50	20.00	210.53	18.85	1117.08	279.44	0.08	0.03
148	1071.43	3	SLE F	-29099.40	14973.30	-11.95	46.00	136.36	0.50	20.00	204.83	18.85	1063.42	204.65	0.06	0.02
149	1130.95	3	SLE F	-28324.00	12654.20	-10.10	46.00	136.36	0.50	20.00	196.72	18.85	986.91	140.94	0.04	0.01
150	1190.48	3	SLE F	-27550.10	10542.50	-8.41	46.00	136.36	0.50	20.00	203.60	15.71	876.48	89.69	0.03	0.01
151	1250.00	3	SLE F	-26777.70	8641.04	-6.89	46.00	136.36	0.50	20.00	202.80	12.57	696.15	51.58	0.02	0.01
152	1309.52	3	SLE F	-26006.70	6948.44	-5.54	46.00	136.36	0.50	20.00	184.83	9.42	437.44	25.73	0.01	0.00
153	1369.05	3	SLE F	-25237.10	5460.01	-4.36	46.00	136.36	0.50	20.00	217.24	3.14	196.72	9.46	0.00	0.00

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.s.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
48	C.Rare - Sc min (max compr.),C.Rare - Sf max (max traz.),C.Rare - Sf min (max compr.)
69	C.Rare - Sc max (min. compr.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf max (max traz.),C.Q.Per. - Sf min (max compr.),C.Q.Per. - Wk Max
112	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 11

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>

PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 11 (-22)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	70857.90	7356.74	-383.97	62478.10	-1927.12
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	70857.90	7356.74	-383.97	62478.10	-1927.12
2	2	SLE R	RVN	52487.40	5449.44	-284.42	46280.10	-1427.50
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	52487.40	5449.44	-284.42	46280.10	-1427.50
3	3	SLE F	RVN	52487.40	5449.44	-284.42	46280.10	-1427.50
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	52487.40	5449.44	-284.42	46280.10	-1427.50
4	4	SLE Q	RVN	52487.40	5449.44	-284.42	46280.10	-1427.50
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	52487.40	5449.44	-284.42	46280.10	-1427.50

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-70857.90	-7356.74	383.97	-62478.10	1927.12
2	2	SLE R	1	-52487.40	-5449.44	284.42	-46280.10	1427.50
3	3	SLE F	1	-52487.40	-5449.44	284.42	-46280.10	1427.50
4	4	SLE Q	1	-52487.40	-5449.44	284.42	-46280.10	1427.50

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-70857.90	62220.40	1919.17	-70857.90	175969.00	5357.94	2-3	178.12	2.828
2	59.52	1	SLU	-71573.50	65829.90	2030.50	-71573.50	176252.00	5373.94	2-3	178.12	2.677
3	119.05	1	SLU	-71324.00	68036.30	2098.56	-71324.00	176153.00	5368.36	2-3	178.12	2.589
4	178.57	1	SLU	-71076.60	69043.40	2129.62	-71076.60	176055.00	5362.83	2-3	178.12	2.550
5	238.09	1	SLU	-70831.50	69039.30	2129.50	-70831.50	175958.00	5357.35	2-3	178.12	2.549
6	297.62	1	SLU	-70588.60	68196.00	2103.49	-70588.60	175862.00	5351.92	2-3	178.12	2.579
7	357.14	1	SLU	-70348.00	66605.20	2054.42	-70348.00	175767.00	5346.54	2-3	178.12	2.639
8	416.67	1	SLU	-68742.60	64165.20	1979.16	-68742.60	175131.00	5310.72	2-3	178.12	2.729
9	476.19	1	SLU	-67141.00	61008.40	1881.79	-67141.00	174497.00	5275.05	2-3	178.12	2.860
10	535.71	1	SLU	-65542.90	57322.60	1768.10	-65542.90	173864.00	5239.54	2-3	178.12	3.033
11	595.24	1	SLU	-63948.40	53271.00	1643.13	-63948.40	173232.00	5204.17	2-3	178.12	3.252
12	654.76	1	SLU	-62357.30	48994.10	1511.21	-62357.30	172600.00	5168.38	2-3	178.12	3.523
13	714.29	1	SLU	-60769.50	44611.30	1376.02	-60769.50	171968.00	5132.45	2-3	178.12	3.855
14	773.81	1	SLU	-59185.00	40222.40	1240.65	-59185.00	171337.00	5096.67	2-3	178.12	4.260
15	833.33	1	SLU	-57603.70	35909.40	1107.62	-57603.70	170707.00	5061.04	2-3	178.12	4.754
16	892.86	1	SLU	-56025.50	31738.30	978.96	-56025.50	170078.00	5025.56	2-3	178.12	5.359
17	952.38	1	SLU	-54450.30	27760.90	856.28	-54450.30	169450.00	4990.21	2-3	178.12	6.104
18	1011.90	1	SLU	-52877.90	24016.20	740.77	-52877.90	168822.00	4954.67	2-3	178.12	7.029
19	1071.43	1	SLU	-51308.50	20532.20	633.31	-51308.50	168194.00	4918.70	2-3	178.12	8.191
20	1130.95	1	SLU	-49741.80	17327.50	534.46	-49741.80	167567.00	4882.86	2-3	178.12	9.670
21	1190.48	1	SLU	-48177.70	14412.30	444.54	-48177.70	166940.00	4847.16	2-3	178.12	11.583
22	1250.00	1	SLU	-46616.20	11789.90	363.66	-46616.20	166314.00	4811.60	2-3	178.12	14.106
23	1309.52	1	SLU	-45057.30	9458.22	291.74	-45057.30	165689.00	4776.17	2-3	178.12	17.517
24	1369.05	1	SLU	-43500.70	7410.05	228.56	-43500.70	165060.00	4759.26	2-3	178.12	22.274
25	1428.57	1	SLU	-41946.50	5634.64	173.80	-41946.50	164415.00	4787.25	2-3	178.12	29.178
26	1488.10	1	SLU	-40394.50	4118.26	127.03	-40394.50	163771.00	4815.00	2-3	178.12	39.765
27	1547.62	1	SLU	-38844.70	2844.93	87.75	-38844.70	163127.00	4842.37	2-3	178.12	57.337
28	1607.14	1	SLU	-37297.00	1797.04	55.43	-2571250.00	162484.00	4869.38	2-3	178.12	68.940
29	1666.67	1	SLU	-35751.30	955.85	29.48	-2571250.00	161842.00	4896.04	2-3	178.12	71.920
30	1726.19	1	SLU	-34207.50	301.91	9.31	-2571250.00	161200.00	4922.36	2-3	178.12	75.166
31	1785.71	1	SLU	-32665.60	-184.61	-5.69	-2571250.00	-160464.00	-3662.97	2-3	358.75	78.714
32	1845.24	1	SLU	-31125.30	-523.65	-16.15	-2571250.00	-159819.00	-3622.90	2-3	358.75	82.609
33	1904.76	1	SLU	-29586.80	-735.07	-22.67	-2571250.00	-159175.00	-3583.04	2-3	358.75	86.905
34	1964.29	1	SLU	-28049.80	-838.52	-25.86	-2571250.00	-158532.00	-3543.39	2-3	358.75	91.667
35	2023.81	1	SLU	-26514.40	-853.36	-26.32	-2571250.00	-157888.00	-3502.98	2-3	358.75	96.976
36	2083.33	1	SLU	-24980.40	-798.60	-24.63	-2571250.00	-157194.00	-5168.72	2-3	358.12	>100
37	2142.86	1	SLU	-23447.70	-692.90	-21.37	-2571250.00	-156549.00	-5125.58	2-3	358.12	>100
38	2202.38	1	SLU	-21916.20	-554.61	-17.11	-2571250.00	-155904.00	-5082.63	2-3	358.12	>100
39	2261.90	1	SLU	-20386.00	-401.81	-12.39	-2571250.00	-155260.00	-5039.86	2-3	358.12	>100

40	2321.43	1	SLU	-18856.80	-252.31	-7.78	-2571250.00	-154616.00	-4997.30	2-3	358.12	>100
41	2380.95	1	SLU	-17328.70	-123.81	-3.82	-2571250.00	-153971.00	-4954.09	2-3	358.12	>100
42	2440.48	1	SLU	-15801.50	-33.87	-1.04	-2571250.00	-153324.00	-4910.00	2-3	358.12	>100
43	2500.00	1	SLU	-14275.10	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7356.74	-383.97	0.85	11.31	7366.75	1.00	32294.70	341818.00	32294.70	4.384
2	59.52	1	SLU	4821.81	-251.67	0.85	11.31	4828.38	1.00	32294.70	341920.00	32294.70	6.689
3	119.05	1	SLU	2642.12	-137.90	0.85	11.31	2645.72	1.00	32294.70	341884.00	32294.70	12.206
4	178.57	1	SLU	791.44	-41.31	0.85	11.31	792.52	1.00	32294.70	341849.00	32294.70	40.749
5	238.09	1	SLU	-757.07	39.51	0.85	11.31	758.10	1.00	32294.70	341814.00	32294.70	42.600
6	297.62	1	SLU	-2030.42	105.97	0.85	11.31	2033.18	1.00	32294.70	341779.00	32294.70	15.884
7	357.14	1	SLU	-3378.43	176.33	0.85	11.31	3383.02	1.00	32294.70	341745.00	32294.70	9.546
8	416.67	1	SLU	-4753.13	248.08	0.85	11.31	4759.60	1.00	32294.70	341515.00	32294.70	6.785
9	476.19	1	SLU	-5791.73	302.29	0.85	11.31	5799.62	1.00	32294.70	341285.00	32294.70	5.568
10	535.71	1	SLU	-6536.15	341.14	0.85	11.31	6545.05	1.00	32294.70	341056.00	32294.70	4.934
11	595.24	1	SLU	-7025.98	366.71	0.85	11.31	7035.55	1.00	32294.70	340828.00	32294.70	4.590
12	654.76	1	SLU	-7298.21	380.92	0.85	11.31	7308.15	1.00	32294.70	340600.00	32294.70	4.419
13	714.29	1	SLU	-7387.05	385.55	0.85	11.31	7397.10	1.00	32294.70	340373.00	32294.70	4.366
14	773.81	1	SLU	-7323.76	382.25	0.85	11.31	7333.73	1.00	32294.70	340146.00	32294.70	4.404
15	833.33	1	SLU	-7136.72	372.49	0.85	11.31	7146.43	1.00	32294.70	339919.00	32294.70	4.519
16	892.86	1	SLU	-6851.33	357.59	0.85	11.31	6860.66	1.00	32294.70	339693.00	32294.70	4.707
17	952.38	1	SLU	-6490.19	338.75	0.85	11.31	6499.03	1.00	32294.70	339467.00	32294.70	4.969
18	1011.90	1	SLU	-6073.16	316.98	0.85	11.31	6081.43	1.00	32294.70	339242.00	32294.70	5.310
19	1071.43	1	SLU	-5617.51	293.20	0.85	11.31	5625.15	1.00	32294.70	339017.00	32294.70	5.741
20	1130.95	1	SLU	-5138.08	268.17	0.85	11.31	5145.08	1.00	32294.70	338793.00	32294.70	6.277
21	1190.48	1	SLU	-4647.51	242.57	0.85	11.31	4653.83	1.00	32294.70	338569.00	32294.70	6.939
22	1250.00	1	SLU	-4156.35	216.93	0.85	11.31	4162.01	1.00	32294.70	338345.00	32294.70	7.759
23	1309.52	1	SLU	-3673.33	191.72	0.85	11.31	3678.33	1.00	32294.70	338122.00	32294.70	8.780
24	1369.05	1	SLU	-3205.50	167.31	0.85	11.31	3209.86	1.00	32294.70	337899.00	32294.70	10.061
25	1428.57	1	SLU	-2758.47	143.97	0.85	11.31	2762.23	1.00	32294.70	337676.00	32294.70	11.692
26	1488.10	1	SLU	-2336.56	121.95	0.85	11.31	2339.74	1.00	32294.70	337454.00	32294.70	13.803
27	1547.62	1	SLU	-1943.00	101.41	0.85	11.31	1945.64	1.00	32294.70	337232.00	32294.70	16.599
28	1607.14	1	SLU	-1580.07	82.47	0.85	11.31	1582.22	1.00	32294.70	337010.00	32294.70	20.411
29	1666.67	1	SLU	-1249.29	65.20	0.85	11.31	1250.99	1.00	32294.70	336789.00	32294.70	25.815
30	1726.19	1	SLU	-951.57	49.67	0.85	11.31	952.86	1.00	32294.70	336568.00	32294.70	33.892
31	1785.71	1	SLU	-687.28	35.87	0.85	11.31	688.22	1.00	32294.70	336347.00	32294.70	46.925
32	1845.24	1	SLU	-456.44	23.82	0.85	11.31	457.06	1.00	32294.70	336126.00	32294.70	70.657
33	1904.76	1	SLU	-258.80	13.51	0.85	11.31	259.15	1.00	32294.70	335906.00	32294.70	>100
34	1964.29	1	SLU	-93.91	4.90	0.85	11.31	94.04	1.00	32294.70	335686.00	32294.70	>100
35	2023.81	1	SLU	38.78	-2.02	0.85	11.31	38.83	1.00	32294.70	335466.00	32294.70	>100
36	2083.33	1	SLU	139.84	-7.30	0.85	11.31	140.03	1.00	32294.70	335246.00	32294.70	>100
37	2142.86	1	SLU	209.85	-10.95	0.85	11.31	210.14	1.00	32294.70	335027.00	32294.70	>100
38	2202.38	1	SLU	249.32	-13.01	0.85	11.31	249.66	1.00	32294.70	334807.00	32294.70	>100
39	2261.90	1	SLU	258.67	-13.50	0.85	11.31	259.02	1.00	32294.70	334588.00	32294.70	>100
40	2321.43	1	SLU	238.24	-12.43	0.85	11.31	238.56	1.00	32294.70	334369.00	32294.70	>100
41	2380.95	1	SLU	188.24	-9.82	0.85	11.31	188.49	1.00	32294.70	334150.00	32294.70	>100
42	2440.48	1	SLU	108.81	-5.68	0.85	11.31	108.95	1.00	32294.70	333931.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_F <daN/cmq>
44	0.00	2	SLE R	-52487.40	1421.61	46089.20	43.98	34.56	44.82	1034.29
45	59.52	2	SLE R	-53330.60	1504.08	48762.90	47.12	31.42	47.57	1121.63
46	119.05	2	SLE R	-53335.90	1554.49	50397.20	47.12	31.42	49.28	1181.56
47	178.57	2	SLE R	-53342.80	1577.50	51143.20	47.12	31.42	50.06	1208.92
48	238.09	2	SLE R	-53351.40	1577.41	51140.20	47.12	31.42	50.05	1208.70
49	297.62	2	SLE R	-53361.60	1558.14	50515.50	47.12	31.42	49.40	1185.59
50	357.14	2	SLE R	-53373.60	1521.79	49337.20	47.12	31.42	48.17	1142.16
51	416.67	2	SLE R	-52199.60	1466.04	47529.70	47.12	31.42	46.35	1090.55
52	476.19	2	SLE R	-51028.50	1393.92	45191.40	43.98	34.56	43.98	1019.54
53	535.71	2	SLE R	-49860.10	1309.70	42461.20	43.98	34.56	41.19	934.36
54	595.24	2	SLE R	-48694.30	1217.13	39460.00	43.98	34.56	38.12	839.65
55	654.76	2	SLE R	-47531.20	1119.41	36291.90	43.98	34.56	34.86	739.44
56	714.29	2	SLE R	-46370.70	1019.28	33045.40	43.98	34.56	31.51	637.26
57	773.81	2	SLE R	-45212.60	919.00	29794.40	43.98	34.56	28.15	536.14
58	833.33	2	SLE R	-44056.90	820.46	26599.60	43.98	34.56	24.84	438.76
59	892.86	2	SLE R	-42903.60	725.16	23509.90	40.84	37.70	21.65	347.50
60	952.38	2	SLE R	-41752.60	634.28	20563.60	37.70	40.84	18.62	264.50
61	1011.90	2	SLE R	-40603.90	548.72	17789.80	37.70	40.84	15.80	216.02
62	1071.43	2	SLE R	-39457.30	469.12	15209.10	34.56	43.98	13.26	182.73
63	1130.95	2	SLE R	-38312.80	395.90	12835.20	31.42	47.12	11.04	153.42
64	1190.48	2	SLE R	-37170.40	329.29	10675.70	28.27	50.27	9.18	128.66
65	1250.00	2	SLE R	-36030.00	269.38	8733.29	21.99	56.55	7.69	108.50
66	1309.52	2	SLE R	-34891.50	216.10	7006.09	12.57	65.97	6.51	92.49

67	1369.05	2	SLE R	-33754.90	169.30	5488.93	0.00	78.54	5.58	79.80
68	1428.57	2	SLE R	-32620.10	128.74	4173.81	0.00	78.54	4.81	69.15
69	1488.10	2	SLE R	-31487.10	94.09	3050.56	0.00	78.54	4.14	59.86
70	1547.62	2	SLE R	-30355.70	65.00	2107.36	0.00	78.54	3.56	51.84
71	1607.14	2	SLE R	-29226.00	41.06	1331.14	0.00	78.54	3.06	45.00
72	1666.67	2	SLE R	-28097.80	21.84	708.04	0.00	78.54	2.65	39.24
73	1726.19	2	SLE R	-26971.20	6.90	223.63	0.00	78.54	2.31	34.46
74	1785.71	2	SLE R	-25846.00	-4.22	-136.75	0.00	78.54	2.17	32.47
75	1845.24	2	SLE R	-24722.10	-11.96	-387.89	0.00	78.54	2.21	32.86
76	1904.76	2	SLE R	-23599.60	-16.79	-544.50	0.00	78.54	2.20	32.59
77	1964.29	2	SLE R	-22478.40	-19.16	-621.13	0.00	78.54	2.15	31.76
78	2023.81	2	SLE R	-21358.40	-19.50	-632.12	0.00	78.54	2.06	30.47
79	2083.33	2	SLE R	-20239.50	-18.25	-591.55	0.00	78.54	1.95	28.82
80	2142.86	2	SLE R	-19121.70	-15.83	-513.26	0.00	78.54	1.82	26.91
81	2202.38	2	SLE R	-18004.90	-12.67	-410.82	0.00	78.54	1.68	24.83
82	2261.90	2	SLE R	-16889.10	-9.18	-297.63	0.00	78.54	1.53	22.68
83	2321.43	2	SLE R	-15774.20	-5.76	-186.90	0.00	78.54	1.38	20.54
84	2380.95	2	SLE R	-14660.20	-2.83	-91.71	0.00	78.54	1.24	18.52
85	2440.48	2	SLE R	-13546.90	-0.77	-25.09	0.00	78.54	1.11	16.69
86	2500.00	2	SLE R	-12434.40	0.00	0.00	0.00	78.54	1.01	15.16
87	0.00	4	SLE Q	-52487.40	1421.61	46089.20	43.98	34.56	44.82	1034.29
88	59.52	4	SLE Q	-53330.60	1504.08	48762.90	47.12	31.42	47.57	1121.63
89	119.05	4	SLE Q	-53335.90	1554.49	50397.20	47.12	31.42	49.28	1181.56
90	178.57	4	SLE Q	-53342.80	1577.50	51143.20	47.12	31.42	50.06	1208.92
91	238.09	4	SLE Q	-53351.40	1577.41	51140.20	47.12	31.42	50.05	1208.70
92	297.62	4	SLE Q	-53361.60	1558.14	50515.50	47.12	31.42	49.40	1185.59
93	357.14	4	SLE Q	-53373.60	1521.79	49337.20	47.12	31.42	48.17	1142.16
94	416.67	4	SLE Q	-52199.60	1466.04	47529.70	47.12	31.42	46.35	1090.55
95	476.19	4	SLE Q	-51028.50	1393.92	45191.40	43.98	34.56	43.98	1019.54
96	535.71	4	SLE Q	-49860.10	1309.70	42461.20	43.98	34.56	41.19	934.36
97	595.24	4	SLE Q	-48694.30	1217.13	39460.00	43.98	34.56	38.12	839.65
98	654.76	4	SLE Q	-47531.20	1119.41	36291.90	43.98	34.56	34.86	739.44
99	714.29	4	SLE Q	-46370.70	1019.28	33045.40	43.98	34.56	31.51	637.26
100	773.81	4	SLE Q	-45212.60	919.00	29794.40	43.98	34.56	28.15	536.14
101	833.33	4	SLE Q	-44056.90	820.46	26599.60	43.98	34.56	24.84	438.76
102	892.86	4	SLE Q	-42903.60	725.16	23509.90	40.84	37.70	21.65	347.50
103	952.38	4	SLE Q	-41752.60	634.28	20563.60	37.70	40.84	18.62	264.50
104	1011.90	4	SLE Q	-40603.90	548.72	17789.80	37.70	40.84	15.80	216.02
105	1071.43	4	SLE Q	-39457.30	469.12	15209.10	34.56	43.98	13.26	182.73
106	1130.95	4	SLE Q	-38312.80	395.90	12835.20	31.42	47.12	11.04	153.42
107	1190.48	4	SLE Q	-37170.40	329.29	10675.70	28.27	50.27	9.18	128.66
108	1250.00	4	SLE Q	-36030.00	269.38	8733.29	21.99	56.55	7.69	108.50
109	1309.52	4	SLE Q	-34891.50	216.10	7006.09	12.57	65.97	6.51	92.49
110	1369.05	4	SLE Q	-33754.90	169.30	5488.93	0.00	78.54	5.58	79.80
111	1428.57	4	SLE Q	-32620.10	128.74	4173.81	0.00	78.54	4.81	69.15
112	1488.10	4	SLE Q	-31487.10	94.09	3050.56	0.00	78.54	4.14	59.86
113	1547.62	4	SLE Q	-30355.70	65.00	2107.36	0.00	78.54	3.56	51.84
114	1607.14	4	SLE Q	-29226.00	41.06	1331.14	0.00	78.54	3.06	45.00
115	1666.67	4	SLE Q	-28097.80	21.84	708.04	0.00	78.54	2.65	39.24
116	1726.19	4	SLE Q	-26971.20	6.90	223.63	0.00	78.54	2.31	34.46
117	1785.71	4	SLE Q	-25846.00	-4.22	-136.75	0.00	78.54	2.17	32.47
118	1845.24	4	SLE Q	-24722.10	-11.96	-387.89	0.00	78.54	2.21	32.86
119	1904.76	4	SLE Q	-23599.60	-16.79	-544.50	0.00	78.54	2.20	32.59
120	1964.29	4	SLE Q	-22478.40	-19.16	-621.13	0.00	78.54	2.15	31.76
121	2023.81	4	SLE Q	-21358.40	-19.50	-632.12	0.00	78.54	2.06	30.47
122	2083.33	4	SLE Q	-20239.50	-18.25	-591.55	0.00	78.54	1.95	28.82
123	2142.86	4	SLE Q	-19121.70	-15.83	-513.26	0.00	78.54	1.82	26.91
124	2202.38	4	SLE Q	-18004.90	-12.67	-410.82	0.00	78.54	1.68	24.83
125	2261.90	4	SLE Q	-16889.10	-9.18	-297.63	0.00	78.54	1.53	22.68
126	2321.43	4	SLE Q	-15774.20	-5.76	-186.90	0.00	78.54	1.38	20.54
127	2380.95	4	SLE Q	-14660.20	-2.83	-91.71	0.00	78.54	1.24	18.52
128	2440.48	4	SLE Q	-13546.90	-0.77	-25.09	0.00	78.54	1.11	16.69
129	2500.00	4	SLE Q	-12434.40	0.00	0.00	0.00	78.54	1.01	15.16

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-52487.40	46089.20	1421.61	46.00	136.36	0.50	20.00	203.51	21.99	1226.11	1034.29	0.30	0.10
88	59.52	4	SLE Q	-53330.60	48762.90	1504.08	46.00	136.36	0.50	20.00	204.19	21.99	1233.59	1121.63	0.33	0.11
89	119.05	4	SLE Q	-53335.90	50397.20	1554.49	46.00	136.36	0.50	20.00	204.71	21.99	1239.35	1181.56	0.34	0.12
90	178.57	4	SLE Q	-53342.80	51143.20	1577.50	46.00	136.36	0.50	20.00	204.94	21.99	1241.82	1208.92	0.35	0.12
91	238.09	4	SLE Q	-53351.40	51140.20	1577.41	46.00	136.36	0.50	20.00	204.93	21.99	1241.78	1208.70	0.35	0.12
92	297.62	4	SLE Q	-53361.60	50515.50	1558.14	46.00	136.36	0.50	20.00	204.74	21.99	1239.67	1185.59	0.35	0.12
93	357.14	4	SLE Q	-53373.60	49337.20	1521.79	46.00	136.36	0.50	20.00	204.37	21.99	1235.53	1142.16	0.33	0.12
94	416.67	4	SLE Q	-52199.60	47529.70	1466.04	46.00	136.36	0.50	20.00	204.12	21.99	1232.84	1090.55	0.32	0.11
95	476.19	4	SLE Q	-51028.50	45191.40	1393.92	46.00	136.36	0.50	20.00	203.66	21.99	1227.73	1019.54	0.30	0.10
96	535.71	4	SLE Q	-49860.10	42461.20	1309.70	46.00	136.36	0.50	20.00	202.97	21.99	1220.14	934.36	0.27	0.09

97	595.24	4	SLE Q	-48694.30	39460.00	1217.13	46.00	136.36	0.50	20.00	202.03	21.99	1209.87	839.65	0.24	0.08
98	654.76	4	SLE Q	-47531.20	36291.90	1119.41	46.00	136.36	0.50	20.00	200.81	21.99	1196.48	739.44	0.22	0.07
99	714.29	4	SLE Q	-46370.70	33045.40	1019.28	46.00	136.36	0.50	20.00	217.13	18.85	1179.32	637.26	0.19	0.07
100	773.81	4	SLE Q	-45212.60	29794.40	919.00	46.00	136.36	0.50	20.00	214.80	18.85	1157.38	536.14	0.16	0.06
101	833.33	4	SLE Q	-44056.90	26599.60	820.46	46.00	136.36	0.50	20.00	211.80	18.85	1129.08	438.76	0.13	0.05
102	892.86	4	SLE Q	-42903.60	23509.90	725.16	46.00	136.36	0.50	20.00	207.90	18.85	1092.32	347.50	0.10	0.04
103	952.38	4	SLE Q	-41752.60	20563.60	634.28	46.00	136.36	0.50	20.00	202.67	18.85	1043.07	264.50	0.08	0.03
104	1011.90	4	SLE Q	-40603.90	17789.80	548.72	46.00	136.36	0.50	20.00	195.55	18.85	975.93	191.77	0.06	0.02
105	1071.43	4	SLE Q	-39457.30	15209.10	469.12	46.00	136.36	0.50	20.00	185.77	18.85	883.77	130.97	0.04	0.01
106	1130.95	4	SLE Q	-38312.80	12835.20	395.90	46.00	136.36	0.50	20.00	210.93	12.57	747.26	83.11	0.02	0.01
107	1190.48	4	SLE Q	-37170.40	10675.70	329.29	46.00	136.36	0.50	20.00	177.36	12.57	536.33	47.97	0.01	0.00
108	1250.00	4	SLE Q	-36030.00	8733.29	269.38	46.00	136.36	0.50	20.00	193.75	6.28	319.65	23.77	0.01	0.00
130	0.00	3	SLE F	-52487.40	46089.20	1421.61	46.00	136.36	0.50	20.00	203.51	21.99	1226.11	1034.29	0.30	0.10
131	59.52	3	SLE F	-53330.60	48762.90	1504.08	46.00	136.36	0.50	20.00	204.19	21.99	1233.59	1121.63	0.33	0.11
132	119.05	3	SLE F	-53335.90	50397.20	1554.49	46.00	136.36	0.50	20.00	204.71	21.99	1239.35	1181.56	0.34	0.12
133	178.57	3	SLE F	-53342.80	51143.20	1577.50	46.00	136.36	0.50	20.00	204.94	21.99	1241.82	1208.92	0.35	0.12
134	238.09	3	SLE F	-53351.40	51140.20	1577.41	46.00	136.36	0.50	20.00	204.93	21.99	1241.78	1208.70	0.35	0.12
135	297.62	3	SLE F	-53361.60	50515.50	1558.14	46.00	136.36	0.50	20.00	204.74	21.99	1239.67	1185.59	0.35	0.12
136	357.14	3	SLE F	-53373.60	49337.20	1521.79	46.00	136.36	0.50	20.00	204.37	21.99	1235.53	1142.16	0.33	0.12
137	416.67	3	SLE F	-52199.60	47529.70	1466.04	46.00	136.36	0.50	20.00	204.12	21.99	1232.84	1090.55	0.32	0.11
138	476.19	3	SLE F	-51028.50	45191.40	1393.92	46.00	136.36	0.50	20.00	203.66	21.99	1227.73	1019.54	0.30	0.10
139	535.71	3	SLE F	-49860.10	42461.20	1309.70	46.00	136.36	0.50	20.00	202.97	21.99	1220.14	934.36	0.27	0.09
140	595.24	3	SLE F	-48694.30	39460.00	1217.13	46.00	136.36	0.50	20.00	202.03	21.99	1209.87	839.65	0.24	0.08
141	654.76	3	SLE F	-47531.20	36291.90	1119.41	46.00	136.36	0.50	20.00	200.81	21.99	1196.48	739.44	0.22	0.07
142	714.29	3	SLE F	-46370.70	33045.40	1019.28	46.00	136.36	0.50	20.00	217.13	18.85	1179.32	637.26	0.19	0.07
143	773.81	3	SLE F	-45212.60	29794.40	919.00	46.00	136.36	0.50	20.00	214.80	18.85	1157.38	536.14	0.16	0.06
144	833.33	3	SLE F	-44056.90	26599.60	820.46	46.00	136.36	0.50	20.00	211.80	18.85	1129.08	438.76	0.13	0.05
145	892.86	3	SLE F	-42903.60	23509.90	725.16	46.00	136.36	0.50	20.00	207.90	18.85	1092.32	347.50	0.10	0.04
146	952.38	3	SLE F	-41752.60	20563.60	634.28	46.00	136.36	0.50	20.00	202.67	18.85	1043.07	264.50	0.08	0.03
147	1011.90	3	SLE F	-40603.90	17789.80	548.72	46.00	136.36	0.50	20.00	195.55	18.85	975.93	191.77	0.06	0.02
148	1071.43	3	SLE F	-39457.30	15209.10	469.12	46.00	136.36	0.50	20.00	185.77	18.85	883.77	130.97	0.04	0.01
149	1130.95	3	SLE F	-38312.80	12835.20	395.90	46.00	136.36	0.50	20.00	210.93	12.57	747.26	83.11	0.02	0.01
150	1190.48	3	SLE F	-37170.40	10675.70	329.29	46.00	136.36	0.50	20.00	177.36	12.57	536.33	47.97	0.01	0.00
151	1250.00	3	SLE F	-36030.00	8733.29	269.38	46.00	136.36	0.50	20.00	193.75	6.28	319.65	23.77	0.01	0.00

Verifiche principali

Caso	Tipo
5	SLU N cost - min. sic.
13	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
47	C.Rare - Sc min (max compr.),C.Rare - Sf max (max traz.),C.Rare - Sf min (max compr.)
68	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf max (max traz.),C.Q.Per. - Sf min (max compr.),C.Q.Per. - Wk Max
111	C.Q.Per. - Sc max (min. compr.)
133	C.Freq - Wk Max

Palo n. 12

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 12 (-4)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	9426.53	7683.84	135.90	55210.30	270.25
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	9426.53	7683.84	135.90	55210.30	270.25
2	2	SLE R	RVN	6982.62	5691.73	100.67	40896.50	200.19
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	6982.62	5691.73	100.67	40896.50	200.19
3	3	SLE F	RVN	6982.62	5691.73	100.67	40896.50	200.19
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	6982.62	5691.73	100.67	40896.50	200.19
4	4	SLE Q	RVN	6982.62	5691.73	100.67	40896.50	200.19

	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	6982.62	5691.73	100.67	40896.50	200.19

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-9426.53	-7683.84	-135.90	-55210.30	-270.25
2	2	SLE R	1	-6982.62	-5691.73	-100.67	-40896.50	-200.19
3	3	SLE F	1	-6982.62	-5691.73	-100.67	-40896.50	-200.19
4	4	SLE Q	1	-6982.62	-5691.73	-100.67	-40896.50	-200.19

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-9426.53	54964.30	-269.05	-9426.53	150746.00	335.48	2-3	180.00	2.743
2	59.52	1	SLU	-10569.10	58801.60	-287.83	-10569.10	151231.00	306.90	2-3	180.00	2.572
3	119.05	1	SLU	-11171.70	61298.50	-300.05	-11171.70	151485.00	291.90	2-3	180.00	2.471
4	178.57	1	SLU	-11774.50	62645.40	-306.65	-11774.50	151740.00	276.77	2-3	180.00	2.422
5	238.09	1	SLU	-12377.80	63018.50	-308.47	-12377.80	151995.00	261.59	2-3	180.00	2.412
6	297.62	1	SLU	-12981.40	62579.30	-306.32	-12981.40	152251.00	246.36	2-3	180.00	2.433
7	357.14	1	SLU	-13585.50	61411.70	-300.61	-13585.50	152506.00	231.08	2-3	180.00	2.483
8	416.67	1	SLU	-13422.70	59410.40	-290.81	-13422.70	152437.00	235.20	2-3	180.00	2.566
9	476.19	1	SLU	-13260.70	56698.60	-277.54	-13260.70	152369.00	239.30	2-3	180.00	2.687
10	535.71	1	SLU	-13099.30	53454.80	-261.66	-13099.30	152301.00	243.38	2-3	180.00	2.849
11	595.24	1	SLU	-12938.70	49834.80	-243.94	-12938.70	152233.00	247.44	2-3	180.00	3.055
12	654.76	1	SLU	-12778.80	45973.10	-225.04	-12778.80	152165.00	251.48	2-3	180.00	3.310
13	714.29	1	SLU	-12619.50	41984.50	-205.51	-12619.50	152097.00	255.50	2-3	180.00	3.623
14	773.81	1	SLU	-12461.00	37965.30	-185.84	-12461.00	152030.00	259.49	2-3	180.00	4.004
15	833.33	1	SLU	-12303.10	33995.20	-166.41	-12303.10	151964.00	263.47	2-3	180.00	4.470
16	892.86	1	SLU	-12145.80	30138.60	-147.53	-12145.80	151897.00	267.43	2-3	180.00	5.040
17	952.38	1	SLU	-11989.20	26446.70	-129.46	-11989.20	151831.00	271.37	2-3	180.00	5.741
18	1011.90	1	SLU	-11833.30	22958.50	-112.38	-11833.30	151765.00	275.29	2-3	180.00	6.610
19	1071.43	1	SLU	-11678.00	19702.30	-96.44	-11678.00	151699.00	279.19	2-3	180.00	7.699
20	1130.95	1	SLU	-11523.30	16697.60	-81.73	-11523.30	151633.00	283.08	2-3	180.00	9.081
21	1190.48	1	SLU	-11369.20	13955.90	-68.31	-11369.20	151568.00	286.94	2-3	180.00	10.860
22	1250.00	1	SLU	-11215.80	11482.00	-56.20	-11215.80	151503.00	290.79	2-3	180.00	13.195
23	1309.52	1	SLU	-11062.90	9275.10	-45.40	-11062.90	151439.00	294.62	2-3	180.00	16.327
24	1369.05	1	SLU	-10910.60	7330.07	-35.88	-10910.60	151374.00	298.41	2-3	180.00	20.651
25	1428.57	1	SLU	-10759.00	5637.89	-27.60	-10759.00	151311.00	302.19	2-3	180.00	26.838
26	1488.10	1	SLU	-10607.90	4186.68	-20.49	-10607.90	151247.00	305.94	2-3	180.00	36.125
27	1547.62	1	SLU	-10457.30	2962.34	-14.50	-10457.30	151184.00	309.68	2-3	180.00	51.035
28	1607.14	1	SLU	-10307.40	1949.06	-9.54	-10307.40	151121.00	313.40	2-3	180.00	77.534
29	1666.67	1	SLU	-10158.00	1129.90	-5.53	-10158.00	151058.00	317.10	2-3	180.00	>100
30	1726.19	1	SLU	-10009.10	487.12	-2.38	-2571250.00	150995.00	320.80	2-3	180.00	>100
31	1785.71	1	SLU	-9860.74	2.54	-0.01	-2571250.00	150933.00	324.47	2-3	180.00	>100
32	1845.24	1	SLU	-9712.94	-342.19	1.68	-2571250.00	-150871.00	328.12	2-3	0.00	>100
33	1904.76	1	SLU	-9565.65	-565.45	2.77	-9565.65	-150807.00	331.88	2-3	0.00	>100
34	1964.29	1	SLU	-9418.88	-685.46	3.36	-9418.88	-150742.00	335.67	2-3	0.00	>100
35	2023.81	1	SLU	-9272.61	-720.20	3.53	-9272.61	-150680.00	339.31	2-3	0.00	>100
36	2083.33	1	SLU	-9126.84	-687.39	3.36	-9126.84	-150619.00	342.93	2-3	0.00	>100
37	2142.86	1	SLU	-8981.56	-604.47	2.96	-8981.56	-150557.00	346.53	2-3	0.00	>100
38	2202.38	1	SLU	-8836.76	-488.56	2.39	-2571250.00	-150496.00	350.13	2-3	0.00	>100
39	2261.90	1	SLU	-8692.44	-356.58	1.75	-2571250.00	-150435.00	353.70	2-3	0.00	>100
40	2321.43	1	SLU	-8548.58	-225.22	1.10	-2571250.00	-150374.00	357.27	2-3	0.00	>100
41	2380.95	1	SLU	-8405.18	-111.03	0.54	-2571250.00	-150313.00	360.82	2-3	0.00	>100
42	2440.48	1	SLU	-8262.23	-30.49	0.15	-2571250.00	-150253.00	364.36	2-3	0.00	>100
43	2500.00	1	SLU	-8119.73	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7683.84	135.90	0.85	11.31	7685.04	1.00	32294.70	333018.00	32294.70	4.202
2	59.52	1	SLU	5264.69	93.12	0.85	11.31	5265.51	1.00	32294.70	333182.00	32294.70	6.133
3	119.05	1	SLU	3177.03	56.19	0.85	11.31	3177.53	1.00	32294.70	333268.00	32294.70	10.164
4	178.57	1	SLU	1397.33	24.71	0.85	11.31	1397.55	1.00	32294.70	333355.00	32294.70	23.108
5	238.09	1	SLU	-98.71	-1.75	0.85	11.31	98.72	1.00	32294.70	333441.00	32294.70	>100
6	297.62	1	SLU	-1335.70	-23.62	0.85	11.31	1335.90	1.00	32294.70	333528.00	32294.70	24.174
7	357.14	1	SLU	-2655.44	-46.97	0.85	11.31	2655.86	1.00	32294.70	333614.00	32294.70	12.160
8	416.67	1	SLU	-4011.71	-70.95	0.85	11.31	4012.34	1.00	32294.70	333591.00	32294.70	8.049
9	476.19	1	SLU	-5048.71	-89.30	0.85	11.31	5049.50	1.00	32294.70	333568.00	32294.70	6.396
10	535.71	1	SLU	-5805.34	-102.68	0.85	11.31	5806.24	1.00	32294.70	333544.00	32294.70	5.562
11	595.24	1	SLU	-6318.49	-111.75	0.85	11.31	6319.48	1.00	32294.70	333521.00	32294.70	5.110
12	654.76	1	SLU	-6622.75	-117.14	0.85	11.31	6623.78	1.00	32294.70	333498.00	32294.70	4.876

13	714.29	1	SLU	-6750.17	-119.39	0.85	11.31	6751.23	1.00	32294.70	333476.00	32294.70	4.784
14	773.81	1	SLU	-6730.19	-119.03	0.85	11.31	6731.25	1.00	32294.70	333453.00	32294.70	4.798
15	833.33	1	SLU	-6589.54	-116.55	0.85	11.31	6590.58	1.00	32294.70	333430.00	32294.70	4.900
16	892.86	1	SLU	-6352.28	-112.35	0.85	11.31	6353.28	1.00	32294.70	333408.00	32294.70	5.083
17	952.38	1	SLU	-6039.84	-106.83	0.85	11.31	6040.78	1.00	32294.70	333385.00	32294.70	5.346
18	1011.90	1	SLU	-5671.11	-100.30	0.85	11.31	5672.00	1.00	32294.70	333363.00	32294.70	5.694
19	1071.43	1	SLU	-5262.60	-93.08	0.85	11.31	5263.42	1.00	32294.70	333341.00	32294.70	6.136
20	1130.95	1	SLU	-4828.54	-85.40	0.85	11.31	4829.30	1.00	32294.70	333319.00	32294.70	6.687
21	1190.48	1	SLU	-4381.08	-77.49	0.85	11.31	4381.76	1.00	32294.70	333297.00	32294.70	7.370
22	1250.00	1	SLU	-3930.42	-69.52	0.85	11.31	3931.04	1.00	32294.70	333275.00	32294.70	8.215
23	1309.52	1	SLU	-3485.05	-61.64	0.85	11.31	3485.59	1.00	32294.70	333253.00	32294.70	9.265
24	1369.05	1	SLU	-3051.87	-53.98	0.85	11.31	3052.34	1.00	32294.70	333231.00	32294.70	10.580
25	1428.57	1	SLU	-2636.39	-46.63	0.85	11.31	2636.80	1.00	32294.70	333209.00	32294.70	12.248
26	1488.10	1	SLU	-2242.93	-39.67	0.85	11.31	2243.28	1.00	32294.70	333188.00	32294.70	14.396
27	1547.62	1	SLU	-1874.73	-33.16	0.85	11.31	1875.02	1.00	32294.70	333166.00	32294.70	17.224
28	1607.14	1	SLU	-1534.15	-27.13	0.85	11.31	1534.39	1.00	32294.70	333145.00	32294.70	21.047
29	1666.67	1	SLU	-1222.82	-21.63	0.85	11.31	1223.01	1.00	32294.70	333123.00	32294.70	26.406
30	1726.19	1	SLU	-941.72	-16.66	0.85	11.31	941.86	1.00	32294.70	333102.00	32294.70	34.288
31	1785.71	1	SLU	-691.37	-12.23	0.85	11.31	691.48	1.00	32294.70	333081.00	32294.70	46.704
32	1845.24	1	SLU	-471.92	-8.35	0.85	11.31	471.99	1.00	32294.70	333059.00	32294.70	68.422
33	1904.76	1	SLU	-283.23	-5.01	0.85	11.31	283.27	1.00	32294.70	333038.00	32294.70	>100
34	1964.29	1	SLU	-124.97	-2.21	0.85	11.31	124.99	1.00	32294.70	333017.00	32294.70	>100
35	2023.81	1	SLU	3.29	0.06	0.85	11.31	3.29	1.00	32294.70	332996.00	32294.70	>100
36	2083.33	1	SLU	102.04	1.80	0.85	11.31	102.06	1.00	32294.70	332975.00	32294.70	>100
37	2142.86	1	SLU	171.76	3.04	0.85	11.31	171.79	1.00	32294.70	332955.00	32294.70	>100
38	2202.38	1	SLU	212.90	3.77	0.85	11.31	212.93	1.00	32294.70	332934.00	32294.70	>100
39	2261.90	1	SLU	225.83	3.99	0.85	11.31	225.87	1.00	32294.70	332913.00	32294.70	>100
40	2321.43	1	SLU	210.84	3.73	0.85	11.31	210.88	1.00	32294.70	332893.00	32294.70	>100
41	2380.95	1	SLU	168.15	2.97	0.85	11.31	168.17	1.00	32294.70	332872.00	32294.70	>100
42	2440.48	1	SLU	97.85	1.73	0.85	11.31	97.86	1.00	32294.70	332852.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-6982.62	-199.29	40714.30	50.27	28.27	41.26	1446.08
45	59.52	2	SLE R	-8142.20	-213.21	43556.70	50.27	28.27	44.14	1537.41
46	119.05	2	SLE R	-8778.63	-222.26	45406.30	50.27	28.27	46.01	1598.53
47	178.57	2	SLE R	-9415.33	-227.15	46404.00	50.27	28.27	47.01	1627.31
48	238.09	2	SLE R	-10052.30	-228.50	46680.40	50.27	28.27	47.28	1628.71
49	297.62	2	SLE R	-10689.60	-226.91	46355.00	50.27	28.27	46.94	1607.27
50	357.14	2	SLE R	-11327.30	-222.67	45490.20	50.27	28.27	46.05	1565.36
51	416.67	2	SLE R	-11221.90	-215.42	44007.70	50.27	28.27	44.55	1510.59
52	476.19	2	SLE R	-11117.10	-205.58	41998.90	50.27	28.27	42.51	1435.85
53	535.71	2	SLE R	-11013.00	-193.82	39596.10	50.27	28.27	40.06	1346.15
54	595.24	2	SLE R	-10909.40	-180.70	36914.60	50.27	28.27	37.34	1245.89
55	654.76	2	SLE R	-10806.40	-166.69	34054.20	50.27	28.27	34.43	1138.84
56	714.29	2	SLE R	-10704.00	-152.23	31099.60	50.27	28.27	31.42	1028.25
57	773.81	2	SLE R	-10602.10	-137.66	28122.40	50.27	28.27	28.39	916.83
58	833.33	2	SLE R	-10500.90	-123.26	25181.60	50.27	28.27	25.40	806.84
59	892.86	2	SLE R	-10400.20	-109.28	22324.90	50.27	28.27	22.48	700.11
60	952.38	2	SLE R	-10300.00	-95.89	19590.20	50.27	28.27	19.69	598.09
61	1011.90	2	SLE R	-10200.40	-83.25	17006.30	50.27	28.27	17.04	501.92
62	1071.43	2	SLE R	-10101.40	-71.44	14594.30	50.27	28.27	14.57	412.44
63	1130.95	2	SLE R	-10002.80	-60.54	12368.60	47.12	31.42	12.28	330.28
64	1190.48	2	SLE R	-9904.88	-50.60	10337.70	47.12	31.42	10.17	255.89
65	1250.00	2	SLE R	-9807.43	-41.63	8505.15	47.12	31.42	8.26	189.62
66	1309.52	2	SLE R	-9710.52	-33.63	6870.45	43.98	34.56	6.55	131.88
67	1369.05	2	SLE R	-9614.12	-26.58	5429.68	40.84	37.70	5.02	83.30
68	1428.57	2	SLE R	-9518.24	-20.44	4176.21	37.70	40.84	3.71	50.61
69	1488.10	2	SLE R	-9422.87	-15.18	3101.25	31.42	47.12	2.67	37.01
70	1547.62	2	SLE R	-9328.01	-10.74	2194.32	21.99	56.55	1.94	27.44
71	1607.14	2	SLE R	-9233.64	-7.07	1443.75	0.00	78.54	1.50	21.40
72	1666.67	2	SLE R	-9139.78	-4.10	836.96	0.00	78.54	1.18	17.02
73	1726.19	2	SLE R	-9046.40	-1.77	360.83	0.00	78.54	0.92	13.56
74	1785.71	2	SLE R	-8953.50	-0.01	1.88	0.00	78.54	0.73	10.93
75	1845.24	2	SLE R	-8861.09	1.24	-253.48	0.00	78.54	0.85	12.59
76	1904.76	2	SLE R	-8769.15	2.05	-418.85	0.00	78.54	0.93	13.64
77	1964.29	2	SLE R	-8677.69	2.49	-507.75	0.00	78.54	0.97	14.15
78	2023.81	2	SLE R	-8586.68	2.61	-533.48	0.00	78.54	0.97	14.22
79	2083.33	2	SLE R	-8496.14	2.49	-509.18	0.00	78.54	0.95	13.94
80	2142.86	2	SLE R	-8406.06	2.19	-447.75	0.00	78.54	0.92	13.40
81	2202.38	2	SLE R	-8316.42	1.77	-361.90	0.00	78.54	0.86	12.68
82	2261.90	2	SLE R	-8227.23	1.29	-264.13	0.00	78.54	0.81	11.89
83	2321.43	2	SLE R	-8138.49	0.82	-166.83	0.00	78.54	0.75	11.10
84	2380.95	2	SLE R	-8050.18	0.40	-82.25	0.00	78.54	0.70	10.39
85	2440.48	2	SLE R	-7962.30	0.11	-22.59	0.00	78.54	0.66	9.87
86	2500.00	2	SLE R	-7874.85	0.00	0.00	0.00	78.54	0.64	9.60

87	0.00	4	SLE Q	-6982.62	-199.29	40714.30	50.27	28.27	41.26	1446.08
88	59.52	4	SLE Q	-8142.20	-213.21	43556.70	50.27	28.27	44.14	1537.41
89	119.05	4	SLE Q	-8778.63	-222.26	45406.30	50.27	28.27	46.01	1598.53
90	178.57	4	SLE Q	-9415.33	-227.15	46404.00	50.27	28.27	47.01	1627.31
91	238.09	4	SLE Q	-10052.30	-228.50	46680.40	50.27	28.27	47.28	1628.71
92	297.62	4	SLE Q	-10689.60	-226.91	46355.00	50.27	28.27	46.94	1607.27
93	357.14	4	SLE Q	-11327.30	-222.67	45490.20	50.27	28.27	46.05	1565.36
94	416.67	4	SLE Q	-11221.90	-215.42	44007.70	50.27	28.27	44.55	1510.59
95	476.19	4	SLE Q	-11117.10	-205.58	41998.90	50.27	28.27	42.51	1435.85
96	535.71	4	SLE Q	-11013.00	-193.82	39596.10	50.27	28.27	40.06	1346.15
97	595.24	4	SLE Q	-10909.40	-180.70	36914.60	50.27	28.27	37.34	1245.89
98	654.76	4	SLE Q	-10806.40	-166.69	34054.20	50.27	28.27	34.43	1138.84
99	714.29	4	SLE Q	-10704.00	-152.23	31099.60	50.27	28.27	31.42	1028.25
100	773.81	4	SLE Q	-10602.10	-137.66	28122.40	50.27	28.27	28.39	916.83
101	833.33	4	SLE Q	-10500.90	-123.26	25181.60	50.27	28.27	25.40	806.84
102	892.86	4	SLE Q	-10400.20	-109.28	22324.90	50.27	28.27	22.48	700.11
103	952.38	4	SLE Q	-10300.00	-95.89	19590.20	50.27	28.27	19.69	598.09
104	1011.90	4	SLE Q	-10200.40	-83.25	17006.30	50.27	28.27	17.04	501.92
105	1071.43	4	SLE Q	-10101.40	-71.44	14594.30	50.27	28.27	14.57	412.44
106	1130.95	4	SLE Q	-10002.80	-60.54	12368.60	47.12	31.42	12.28	330.28
107	1190.48	4	SLE Q	-9904.88	-50.60	10337.70	47.12	31.42	10.17	255.89
108	1250.00	4	SLE Q	-9807.43	-41.63	8505.15	47.12	31.42	8.26	189.62
109	1309.52	4	SLE Q	-9710.52	-33.63	6870.45	43.98	34.56	6.55	131.88
110	1369.05	4	SLE Q	-9614.12	-26.58	5429.68	40.84	37.70	5.02	83.30
111	1428.57	4	SLE Q	-9518.24	-20.44	4176.21	37.70	40.84	3.71	50.61
112	1488.10	4	SLE Q	-9422.87	-15.18	3101.25	31.42	47.12	2.67	37.01
113	1547.62	4	SLE Q	-9328.01	-10.74	2194.32	21.99	56.55	1.94	27.44
114	1607.14	4	SLE Q	-9233.64	-7.07	1443.75	0.00	78.54	1.50	21.40
115	1666.67	4	SLE Q	-9139.78	-4.10	836.96	0.00	78.54	1.18	17.02
116	1726.19	4	SLE Q	-9046.40	-1.77	360.83	0.00	78.54	0.92	13.56
117	1785.71	4	SLE Q	-8953.50	-0.01	1.88	0.00	78.54	0.73	10.93
118	1845.24	4	SLE Q	-8861.09	1.24	-253.48	0.00	78.54	0.85	12.59
119	1904.76	4	SLE Q	-8769.15	2.05	-418.85	0.00	78.54	0.93	13.64
120	1964.29	4	SLE Q	-8677.69	2.49	-507.75	0.00	78.54	0.97	14.15
121	2023.81	4	SLE Q	-8586.68	2.61	-533.48	0.00	78.54	0.97	14.22
122	2083.33	4	SLE Q	-8496.14	2.49	-509.18	0.00	78.54	0.95	13.94
123	2142.86	4	SLE Q	-8406.06	2.19	-447.75	0.00	78.54	0.92	13.40
124	2202.38	4	SLE Q	-8316.42	1.77	-361.90	0.00	78.54	0.86	12.68
125	2261.90	4	SLE Q	-8227.23	1.29	-264.13	0.00	78.54	0.81	11.89
126	2321.43	4	SLE Q	-8138.49	0.82	-166.83	0.00	78.54	0.75	11.10
127	2380.95	4	SLE Q	-8050.18	0.40	-82.25	0.00	78.54	0.70	10.39
128	2440.48	4	SLE Q	-7962.30	0.11	-22.59	0.00	78.54	0.66	9.87
129	2500.00	4	SLE Q	-7874.85	0.00	0.00	0.00	78.54	0.64	9.60

Stato limite d'esercizio – Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-6982.62	40714.30	-199.29	46.00	136.36	0.50	20.00	200.07	25.13	1358.00	1446.08	0.42	0.14
88	59.52	4	SLE Q	-8142.20	43556.70	-213.21	46.00	136.36	0.50	20.00	199.93	25.13	1356.29	1537.41	0.45	0.15
89	119.05	4	SLE Q	-8778.63	45406.30	-222.26	46.00	136.36	0.50	20.00	199.87	25.13	1355.58	1598.53	0.47	0.16
90	178.57	4	SLE Q	-9415.33	46404.00	-227.15	46.00	136.36	0.50	20.00	199.79	25.13	1354.51	1627.31	0.47	0.16
91	238.09	4	SLE Q	-10052.30	46680.40	-228.50	46.00	136.36	0.50	20.00	199.68	25.13	1353.11	1628.71	0.47	0.16
92	297.62	4	SLE Q	-10689.60	46355.00	-226.91	46.00	136.36	0.50	20.00	199.54	25.13	1351.39	1607.27	0.47	0.16
93	357.14	4	SLE Q	-11327.30	45490.20	-222.67	46.00	136.36	0.50	20.00	199.37	25.13	1349.29	1565.36	0.46	0.15
94	416.67	4	SLE Q	-11221.90	44007.70	-215.42	46.00	136.36	0.50	20.00	199.32	25.13	1348.61	1510.59	0.44	0.15
95	476.19	4	SLE Q	-11117.10	41998.90	-205.58	46.00	136.36	0.50	20.00	199.23	25.13	1347.50	1435.85	0.42	0.14
96	535.71	4	SLE Q	-11013.00	39596.10	-193.82	46.00	136.36	0.50	20.00	199.11	25.13	1345.95	1346.15	0.39	0.13
97	595.24	4	SLE Q	-10909.40	36914.60	-180.70	46.00	136.36	0.50	20.00	214.22	21.99	1343.93	1245.89	0.36	0.13
98	654.76	4	SLE Q	-10806.40	34054.20	-166.69	46.00	136.36	0.50	20.00	213.99	21.99	1341.39	1138.84	0.33	0.12
99	714.29	4	SLE Q	-10704.00	31099.60	-152.23	46.00	136.36	0.50	20.00	213.71	21.99	1338.22	1028.25	0.30	0.11
100	773.81	4	SLE Q	-10602.10	28122.40	-137.66	46.00	136.36	0.50	20.00	213.35	21.99	1334.30	916.83	0.27	0.10
101	833.33	4	SLE Q	-10500.90	25181.60	-123.26	46.00	136.36	0.50	20.00	212.91	21.99	1329.45	806.84	0.23	0.09
102	892.86	4	SLE Q	-10400.20	22324.90	-109.28	46.00	136.36	0.50	20.00	212.36	21.99	1323.41	700.11	0.20	0.07
103	952.38	4	SLE Q	-10300.00	19590.20	-95.89	46.00	136.36	0.50	20.00	211.67	21.99	1315.83	598.09	0.17	0.06
104	1011.90	4	SLE Q	-10200.40	17006.30	-83.25	46.00	136.36	0.50	20.00	210.79	21.99	1306.18	501.92	0.15	0.05
105	1071.43	4	SLE Q	-10101.40	14594.30	-71.44	46.00	136.36	0.50	20.00	209.66	21.99	1293.70	412.44	0.12	0.04
106	1130.95	4	SLE Q	-10002.80	12368.60	-60.54	46.00	136.36	0.50	20.00	208.16	21.99	1277.19	330.28	0.10	0.03
107	1190.48	4	SLE Q	-9904.88	10337.70	-50.60	46.00	136.36	0.50	20.00	206.11	21.99	1254.68	255.89	0.07	0.03
108	1250.00	4	SLE Q	-9807.43	8505.15	-41.63	46.00	136.36	0.50	20.00	203.21	21.99	1222.82	189.62	0.06	0.02
109	1309.52	4	SLE Q	-9710.52	6870.45	-33.63	46.00	136.36	0.50	20.00	198.95	21.99	1175.93	131.88	0.04	0.01
110	1369.05	4	SLE Q	-9614.12	5429.68	-26.58	46.00	136.36	0.50	20.00	209.08	18.85	1103.48	83.30	0.02	0.01
111	1428.57	4	SLE Q	-9518.24	4176.21	-20.44	46.00	136.36	0.50	20.00	195.51	18.85	975.58	45.20	0.01	0.00
112	1488.10	4	SLE Q	-9422.87	3101.25	-15.18	46.00	136.36	0.50	20.00	184.05	15.71	722.94	19.36	0.01	0.00
113	1547.62	4	SLE Q	-9328.01	2194.32	-10.74	46.00	136.36	0.50	20.00	182.39	6.28	283.96	5.40	0.00	0.00
130	0.00	3	SLE F	-6982.62	40714.30	-199.29	46.00	136.36	0.50	20.00	200.07	25.13	1358.00	1446.08	0.42	0.14
131	59.52	3	SLE F	-8142.20	43556.70	-213.21	46.00	136.36	0.50	20.00	199.93	25.13	1356.29	1537.41	0.45	0.15
132	119.05	3	SLE F	-8778.63	45406.30	-222.26	46.00	136.36	0.50	20.00	199.87	25.13	1355.58	1598.53	0.47	0.16

133	178.57	3	SLE F	-9415.33	46404.00	-227.15	46.00	136.36	0.50	20.00	199.79	25.13	1354.51	1627.31	0.47	0.16
134	238.09	3	SLE F	-10052.30	46680.40	-228.50	46.00	136.36	0.50	20.00	199.68	25.13	1353.11	1628.71	0.47	0.16
135	297.62	3	SLE F	-10689.60	46355.00	-226.91	46.00	136.36	0.50	20.00	199.54	25.13	1351.39	1607.27	0.47	0.16
136	357.14	3	SLE F	-11327.30	45490.20	-222.67	46.00	136.36	0.50	20.00	199.37	25.13	1349.29	1565.36	0.46	0.15
137	416.67	3	SLE F	-11221.90	44007.70	-215.42	46.00	136.36	0.50	20.00	199.32	25.13	1348.61	1510.59	0.44	0.15
138	476.19	3	SLE F	-11117.10	41998.90	-205.58	46.00	136.36	0.50	20.00	199.23	25.13	1347.50	1435.85	0.42	0.14
139	535.71	3	SLE F	-11013.00	39596.10	-193.82	46.00	136.36	0.50	20.00	199.11	25.13	1345.95	1346.15	0.39	0.13
140	595.24	3	SLE F	-10909.40	36914.60	-180.70	46.00	136.36	0.50	20.00	214.22	21.99	1343.93	1245.89	0.36	0.13
141	654.76	3	SLE F	-10806.40	34054.20	-166.69	46.00	136.36	0.50	20.00	213.99	21.99	1341.39	1138.84	0.33	0.12
142	714.29	3	SLE F	-10704.00	31099.60	-152.23	46.00	136.36	0.50	20.00	213.71	21.99	1338.22	1028.25	0.30	0.11
143	773.81	3	SLE F	-10602.10	28122.40	-137.66	46.00	136.36	0.50	20.00	213.35	21.99	1334.30	916.83	0.27	0.10
144	833.33	3	SLE F	-10500.90	25181.60	-123.26	46.00	136.36	0.50	20.00	212.91	21.99	1329.45	806.84	0.23	0.09
145	892.86	3	SLE F	-10400.20	22324.90	-109.28	46.00	136.36	0.50	20.00	212.36	21.99	1323.41	700.11	0.20	0.07
146	952.38	3	SLE F	-10300.00	19590.20	-95.89	46.00	136.36	0.50	20.00	211.67	21.99	1315.83	598.09	0.17	0.06
147	1011.90	3	SLE F	-10200.40	17006.30	-83.25	46.00	136.36	0.50	20.00	210.79	21.99	1306.18	501.92	0.15	0.05
148	1071.43	3	SLE F	-10101.40	14594.30	-71.44	46.00	136.36	0.50	20.00	209.66	21.99	1293.70	412.44	0.12	0.04
149	1130.95	3	SLE F	-10002.80	12368.60	-60.54	46.00	136.36	0.50	20.00	208.16	21.99	1277.19	330.28	0.10	0.03
150	1190.48	3	SLE F	-9904.88	10337.70	-50.60	46.00	136.36	0.50	20.00	206.11	21.99	1254.68	255.89	0.07	0.03
151	1250.00	3	SLE F	-9807.43	8505.15	-41.63	46.00	136.36	0.50	20.00	203.21	21.99	1222.82	189.62	0.06	0.02
152	1309.52	3	SLE F	-9710.52	6870.45	-33.63	46.00	136.36	0.50	20.00	198.95	21.99	1175.93	131.88	0.04	0.01
153	1369.05	3	SLE F	-9614.12	5429.68	-26.58	46.00	136.36	0.50	20.00	209.08	18.85	1103.48	83.30	0.02	0.01
154	1428.57	3	SLE F	-9518.24	4176.21	-20.44	46.00	136.36	0.50	20.00	195.51	18.85	975.58	45.20	0.01	0.00
155	1488.10	3	SLE F	-9422.87	3101.25	-15.18	46.00	136.36	0.50	20.00	184.05	15.71	722.94	19.36	0.01	0.00
156	1547.62	3	SLE F	-9328.01	2194.32	-10.74	46.00	136.36	0.50	20.00	182.39	6.28	283.96	5.40	0.00	0.00

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
48	C.Rare - Sc min (max compr.),C.Rare - Sf max (max traz.),C.Rare - Sf min (max compr.)
71	C.Rare - Sc max (min. compr.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf max (max traz.),C.Q.Per. - Sf min (max compr.),C.Q.Per. - Wk Max
114	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 13

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 13 (-3)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	9469.03	7682.76	-135.61	55220.30	-169.49
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	9469.03	7682.76	-135.61	55220.30	-169.49
2	2	SLE R	RVN	7014.10	5690.93	-100.45	40903.90	-125.55
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	7014.10	5690.93	-100.45	40903.90	-125.55
3	3	SLE F	RVN	7014.10	5690.93	-100.45	40903.90	-125.55
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	7014.10	5690.93	-100.45	40903.90	-125.55
4	4	SLE Q	RVN	7014.10	5690.93	-100.45	40903.90	-125.55
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	7014.10	5690.93	-100.45	40903.90	-125.55

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-9469.03	-7682.76	135.61	-55220.30	169.49
2	2	SLE R	1	-7014.10	-5690.93	100.45	-40903.90	125.55
3	3	SLE F	1	-7014.10	-5690.93	100.45	-40903.90	125.55

4	4	SLE Q	1	-7014.10	-5690.93	100.45	-40903.90	125.55

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-9469.03	54974.30	168.73	-9469.03	150764.00	334.42	2-3	180.00	2.742
2	59.52	1	SLU	-10611.30	58810.90	180.51	-10611.30	151248.00	305.86	2-3	180.00	2.572
3	119.05	1	SLU	-11213.30	61307.20	188.17	-11213.30	151502.00	290.86	2-3	180.00	2.471
4	178.57	1	SLU	-11815.60	62653.40	192.30	-11815.60	151757.00	275.74	2-3	180.00	2.422
5	238.09	1	SLU	-12418.20	63025.80	193.44	-12418.20	152012.00	260.57	2-3	180.00	2.412
6	297.62	1	SLU	-13021.30	62585.90	192.09	-13021.30	152268.00	245.35	2-3	180.00	2.433
7	357.14	1	SLU	-13624.70	61417.60	188.51	-13624.70	152523.00	230.09	2-3	180.00	2.483
8	416.67	1	SLU	-13461.00	59415.50	182.36	-13461.00	152454.00	234.24	2-3	180.00	2.566
9	476.19	1	SLU	-13297.90	56703.10	174.04	-13297.90	152385.00	238.36	2-3	180.00	2.687
10	535.71	1	SLU	-13135.60	53458.70	164.08	-13135.60	152316.00	242.46	2-3	180.00	2.849
11	595.24	1	SLU	-12974.00	49838.10	152.97	-12974.00	152248.00	246.55	2-3	180.00	3.055
12	654.76	1	SLU	-12813.10	45975.90	141.11	-12813.10	152179.00	250.61	2-3	180.00	3.310
13	714.29	1	SLU	-12652.80	41986.80	128.87	-12652.80	152112.00	254.66	2-3	180.00	3.623
14	773.81	1	SLU	-12493.30	37967.20	116.53	-12493.30	152044.00	258.68	2-3	180.00	4.005
15	833.33	1	SLU	-12334.40	33996.70	104.34	-12334.40	151977.00	262.68	2-3	180.00	4.470
16	892.86	1	SLU	-12176.20	30139.80	92.51	-12176.20	151910.00	266.67	2-3	180.00	5.040
17	952.38	1	SLU	-12018.60	26447.60	81.17	-12018.60	151843.00	270.63	2-3	180.00	5.741
18	1011.90	1	SLU	-11861.70	22959.10	70.47	-11861.70	151777.00	274.58	2-3	180.00	6.611
19	1071.43	1	SLU	-11705.40	19702.70	60.47	-11705.40	151711.00	278.50	2-3	180.00	7.700
20	1130.95	1	SLU	-11549.70	16697.80	51.25	-11549.70	151645.00	282.42	2-3	180.00	9.082
21	1190.48	1	SLU	-11394.70	13955.90	42.83	-11394.70	151579.00	286.30	2-3	180.00	10.861
22	1250.00	1	SLU	-11240.30	11481.80	35.24	-11240.30	151514.00	290.18	2-3	180.00	13.196
23	1309.52	1	SLU	-11086.40	9274.89	28.47	-11086.40	151449.00	294.03	2-3	180.00	16.329
24	1369.05	1	SLU	-10933.20	7329.79	22.50	-10933.20	151384.00	297.86	2-3	180.00	20.653
25	1428.57	1	SLU	-10780.50	5637.55	17.30	-10780.50	151320.00	301.65	2-3	180.00	26.841
26	1488.10	1	SLU	-10628.50	4186.32	12.85	-10628.50	151256.00	305.43	2-3	180.00	36.131
27	1547.62	1	SLU	-10477.00	2961.95	9.09	-10477.00	151192.00	309.19	2-3	180.00	51.045
28	1607.14	1	SLU	-10326.00	1948.67	5.98	-10326.00	151128.00	312.94	2-3	180.00	77.554
29	1666.67	1	SLU	-10175.70	1129.52	3.47	-10175.70	151065.00	316.66	2-3	180.00	>100
30	1726.19	1	SLU	-10025.80	486.75	1.49	-2571250.00	151002.00	320.38	2-3	180.00	>100
31	1785.71	1	SLU	-9876.52	2.20	0.01	-2571250.00	150939.00	324.08	2-3	180.00	>100
32	1845.24	1	SLU	-9727.75	-342.50	-1.05	-2571250.00	-150877.00	327.76	2-3	0.00	>100
33	1904.76	1	SLU	-9579.50	-565.73	-1.74	-9579.50	-150813.00	331.51	2-3	0.00	>100
34	1964.29	1	SLU	-9431.77	-685.70	-2.10	-9431.77	-150748.00	335.35	2-3	0.00	>100
35	2023.81	1	SLU	-9284.54	-720.40	-2.21	-9284.54	-150685.00	339.01	2-3	0.00	>100
36	2083.33	1	SLU	-9137.81	-687.56	-2.11	-9137.81	-150623.00	342.66	2-3	0.00	>100
37	2142.86	1	SLU	-8991.57	-604.59	-1.86	-8991.57	-150561.00	346.29	2-3	0.00	>100
38	2202.38	1	SLU	-8845.81	-488.65	-1.50	-2571250.00	-150500.00	349.90	2-3	0.00	>100
39	2261.90	1	SLU	-8700.53	-356.64	-1.09	-2571250.00	-150438.00	353.50	2-3	0.00	>100
40	2321.43	1	SLU	-8555.71	-225.25	-0.69	-2571250.00	-150377.00	357.10	2-3	0.00	>100
41	2380.95	1	SLU	-8411.36	-111.05	-0.34	-2571250.00	-150316.00	360.67	2-3	0.00	>100
42	2440.48	1	SLU	-8267.44	-30.50	-0.09	-2571250.00	-150255.00	364.23	2-3	0.00	>100
43	2500.00	1	SLU	-8123.98	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7682.76	-135.61	0.85	11.31	7683.96	1.00	32294.70	333024.00	32294.70	4.203
2	59.52	1	SLU	5263.55	-92.91	0.85	11.31	5264.37	1.00	32294.70	333188.00	32294.70	6.135
3	119.05	1	SLU	3175.86	-56.06	0.85	11.31	3176.35	1.00	32294.70	333274.00	32294.70	10.167
4	178.57	1	SLU	1396.14	-24.64	0.85	11.31	1396.36	1.00	32294.70	333361.00	32294.70	23.128
5	238.09	1	SLU	-99.90	1.76	0.85	11.31	99.92	1.00	32294.70	333447.00	32294.70	>100
6	297.62	1	SLU	-1336.88	23.60	0.85	11.31	1337.08	1.00	32294.70	333533.00	32294.70	24.153
7	357.14	1	SLU	-2656.59	46.89	0.85	11.31	2657.00	1.00	32294.70	333620.00	32294.70	12.155
8	416.67	1	SLU	-4012.80	70.83	0.85	11.31	4013.43	1.00	32294.70	333596.00	32294.70	8.047
9	476.19	1	SLU	-5049.74	89.14	0.85	11.31	5050.53	1.00	32294.70	333573.00	32294.70	6.394
10	535.71	1	SLU	-5806.30	102.49	0.85	11.31	5807.20	1.00	32294.70	333550.00	32294.70	5.561
11	595.24	1	SLU	-6319.38	111.55	0.85	11.31	6320.36	1.00	32294.70	333526.00	32294.70	5.110
12	654.76	1	SLU	-6623.56	116.92	0.85	11.31	6624.59	1.00	32294.70	333503.00	32294.70	4.875
13	714.29	1	SLU	-6750.91	119.16	0.85	11.31	6751.96	1.00	32294.70	333480.00	32294.70	4.783
14	773.81	1	SLU	-6730.85	118.81	0.85	11.31	6731.90	1.00	32294.70	333458.00	32294.70	4.797
15	833.33	1	SLU	-6590.12	116.33	0.85	11.31	6591.15	1.00	32294.70	333435.00	32294.70	4.900
16	892.86	1	SLU	-6352.79	112.14	0.85	11.31	6353.78	1.00	32294.70	333412.00	32294.70	5.083
17	952.38	1	SLU	-6040.27	106.62	0.85	11.31	6041.21	1.00	32294.70	333390.00	32294.70	5.346
18	1011.90	1	SLU	-5671.48	100.11	0.85	11.31	5672.37	1.00	32294.70	333367.00	32294.70	5.693
19	1071.43	1	SLU	-5262.91	92.90	0.85	11.31	5263.73	1.00	32294.70	333345.00	32294.70	6.135
20	1130.95	1	SLU	-4828.80	85.24	0.85	11.31	4829.55	1.00	32294.70	333322.00	32294.70	6.687
21	1190.48	1	SLU	-4381.28	77.34	0.85	11.31	4381.97	1.00	32294.70	333300.00	32294.70	7.370
22	1250.00	1	SLU	-3930.58	69.38	0.85	11.31	3931.20	1.00	32294.70	333278.00	32294.70	8.215

23	1309.52	1	SLU	-3485.17	61.52	0.85	11.31	3485.71	1.00	32294.70	333256.00	32294.70	9.265
24	1369.05	1	SLU	-3051.95	53.87	0.85	11.31	3052.43	1.00	32294.70	333234.00	32294.70	10.580
25	1428.57	1	SLU	-2636.45	46.54	0.85	11.31	2636.86	1.00	32294.70	333212.00	32294.70	12.247
26	1488.10	1	SLU	-2242.96	39.59	0.85	11.31	2243.31	1.00	32294.70	333190.00	32294.70	14.396
27	1547.62	1	SLU	-1874.73	33.09	0.85	11.31	1875.03	1.00	32294.70	333169.00	32294.70	17.224
28	1607.14	1	SLU	-1534.14	27.08	0.85	11.31	1534.38	1.00	32294.70	333147.00	32294.70	21.047
29	1666.67	1	SLU	-1222.79	21.58	0.85	11.31	1222.98	1.00	32294.70	333126.00	32294.70	26.407
30	1726.19	1	SLU	-941.67	16.62	0.85	11.31	941.82	1.00	32294.70	333104.00	32294.70	34.290
31	1785.71	1	SLU	-691.32	12.20	0.85	11.31	691.43	1.00	32294.70	333083.00	32294.70	46.707
32	1845.24	1	SLU	-471.86	8.33	0.85	11.31	471.94	1.00	32294.70	333061.00	32294.70	68.430
33	1904.76	1	SLU	-283.17	5.00	0.85	11.31	283.21	1.00	32294.70	333040.00	32294.70	>100
34	1964.29	1	SLU	-124.90	2.20	0.85	11.31	124.92	1.00	32294.70	333019.00	32294.70	>100
35	2023.81	1	SLU	3.36	-0.06	0.85	11.31	3.36	1.00	32294.70	332998.00	32294.70	>100
36	2083.33	1	SLU	102.10	-1.80	0.85	11.31	102.12	1.00	32294.70	332977.00	32294.70	>100
37	2142.86	1	SLU	171.82	-3.03	0.85	11.31	171.85	1.00	32294.70	332956.00	32294.70	>100
38	2202.38	1	SLU	212.95	-3.76	0.85	11.31	212.99	1.00	32294.70	332935.00	32294.70	>100
39	2261.90	1	SLU	225.88	-3.99	0.85	11.31	225.91	1.00	32294.70	332914.00	32294.70	>100
40	2321.43	1	SLU	210.88	-3.72	0.85	11.31	210.91	1.00	32294.70	332894.00	32294.70	>100
41	2380.95	1	SLU	168.17	-2.97	0.85	11.31	168.20	1.00	32294.70	332873.00	32294.70	>100
42	2440.48	1	SLU	97.86	-1.73	0.85	11.31	97.88	1.00	32294.70	332852.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_F <daN/cmq>
44	0.00	2	SLE R	-7014.10	124.99	40721.70	50.27	28.27	41.27	1445.41
45	59.52	2	SLE R	-8173.46	133.71	43563.70	50.27	28.27	44.14	1536.70
46	119.05	2	SLE R	-8809.45	139.38	45412.70	50.27	28.27	46.01	1597.79
47	178.57	2	SLE R	-9445.72	142.44	46409.90	50.27	28.27	47.02	1626.55
48	238.09	2	SLE R	-10082.30	143.29	46685.80	50.27	28.27	47.29	1627.93
49	297.62	2	SLE R	-10719.20	142.29	46359.90	50.27	28.27	46.95	1606.48
50	357.14	2	SLE R	-11356.40	139.63	45494.50	50.27	28.27	46.06	1564.57
51	416.67	2	SLE R	-11250.30	135.08	44011.50	50.27	28.27	44.55	1509.81
52	476.19	2	SLE R	-11144.80	128.92	42002.30	50.27	28.27	42.51	1435.09
53	535.71	2	SLE R	-11039.90	121.54	39599.00	50.27	28.27	40.07	1345.41
54	595.24	2	SLE R	-10935.50	113.31	36917.10	50.27	28.27	37.34	1245.18
55	654.76	2	SLE R	-10831.80	104.53	34056.30	50.27	28.27	34.43	1138.16
56	714.29	2	SLE R	-10728.70	95.46	31101.40	50.27	28.27	31.42	1027.61
57	773.81	2	SLE R	-10626.10	86.32	28123.80	50.27	28.27	28.39	916.23
58	833.33	2	SLE R	-10524.10	77.29	25182.70	50.27	28.27	25.40	806.27
59	892.86	2	SLE R	-10422.70	68.52	22325.80	50.27	28.27	22.48	699.58
60	952.38	2	SLE R	-10321.80	60.13	19590.80	50.27	28.27	19.69	597.60
61	1011.90	2	SLE R	-10221.40	52.20	17006.70	50.27	28.27	17.04	501.46
62	1071.43	2	SLE R	-10121.70	44.79	14594.60	50.27	28.27	14.57	412.02
63	1130.95	2	SLE R	-10022.40	37.96	12368.80	47.12	31.42	12.28	329.90
64	1190.48	2	SLE R	-9923.74	31.73	10337.70	47.12	31.42	10.17	255.55
65	1250.00	2	SLE R	-9825.58	26.10	8505.07	47.12	31.42	8.26	189.32
66	1309.52	2	SLE R	-9727.94	21.09	6870.29	43.98	34.56	6.54	131.62
67	1369.05	2	SLE R	-9630.82	16.66	5429.47	40.84	37.70	5.02	83.09
68	1428.57	2	SLE R	-9534.22	12.82	4175.97	37.70	40.84	3.71	50.62
69	1488.10	2	SLE R	-9438.14	9.52	3100.98	31.42	47.12	2.66	37.02
70	1547.62	2	SLE R	-9342.56	6.73	2194.04	21.99	56.55	1.95	27.45
71	1607.14	2	SLE R	-9247.48	4.43	1443.46	0.00	78.54	1.50	21.42
72	1666.67	2	SLE R	-9152.89	2.57	836.68	0.00	78.54	1.18	17.04
73	1726.19	2	SLE R	-9058.80	1.11	360.56	0.00	78.54	0.92	13.58
74	1785.71	2	SLE R	-8965.19	0.01	1.63	0.00	78.54	0.73	10.94
75	1845.24	2	SLE R	-8872.06	-0.78	-253.71	0.00	78.54	0.85	12.60
76	1904.76	2	SLE R	-8779.41	-1.29	-419.06	0.00	78.54	0.93	13.65
77	1964.29	2	SLE R	-8687.23	-1.56	-507.92	0.00	78.54	0.97	14.16
78	2023.81	2	SLE R	-8595.52	-1.64	-533.63	0.00	78.54	0.97	14.23
79	2083.33	2	SLE R	-8504.27	-1.56	-509.30	0.00	78.54	0.95	13.95
80	2142.86	2	SLE R	-8413.47	-1.37	-447.85	0.00	78.54	0.92	13.40
81	2202.38	2	SLE R	-8323.13	-1.11	-361.96	0.00	78.54	0.86	12.69
82	2261.90	2	SLE R	-8233.23	-0.81	-264.18	0.00	78.54	0.81	11.89
83	2321.43	2	SLE R	-8143.77	-0.51	-166.85	0.00	78.54	0.75	11.10
84	2380.95	2	SLE R	-8054.75	-0.25	-82.26	0.00	78.54	0.70	10.40
85	2440.48	2	SLE R	-7966.16	-0.07	-22.59	0.00	78.54	0.66	9.87
86	2500.00	2	SLE R	-7878.00	0.00	0.00	0.00	78.54	0.64	9.61
87	0.00	4	SLE Q	-7014.10	124.99	40721.70	50.27	28.27	41.27	1445.41
88	59.52	4	SLE Q	-8173.46	133.71	43563.70	50.27	28.27	44.14	1536.70
89	119.05	4	SLE Q	-8809.45	139.38	45412.70	50.27	28.27	46.01	1597.79
90	178.57	4	SLE Q	-9445.72	142.44	46409.90	50.27	28.27	47.02	1626.55
91	238.09	4	SLE Q	-10082.30	143.29	46685.80	50.27	28.27	47.29	1627.93
92	297.62	4	SLE Q	-10719.20	142.29	46359.90	50.27	28.27	46.95	1606.48
93	357.14	4	SLE Q	-11356.40	139.63	45494.50	50.27	28.27	46.06	1564.57
94	416.67	4	SLE Q	-11250.30	135.08	44011.50	50.27	28.27	44.55	1509.81
95	476.19	4	SLE Q	-11144.80	128.92	42002.30	50.27	28.27	42.51	1435.09
96	535.71	4	SLE Q	-11039.90	121.54	39599.00	50.27	28.27	40.07	1345.41

97	595.24	4	SLE Q	-10935.50	113.31	36917.10	50.27	28.27	37.34	1245.18						
98	654.76	4	SLE Q	-10831.80	104.53	34056.30	50.27	28.27	34.43	1138.16						
99	714.29	4	SLE Q	-10728.70	95.46	31101.40	50.27	28.27	31.42	1027.61						
100	773.81	4	SLE Q	-10626.10	86.32	28123.80	50.27	28.27	28.39	916.23						
101	833.33	4	SLE Q	-10524.10	77.29	25182.70	50.27	28.27	25.40	806.27						
102	892.86	4	SLE Q	-10422.70	68.52	22325.80	50.27	28.27	22.48	699.58						
103	952.38	4	SLE Q	-10321.80	60.13	19590.80	50.27	28.27	19.69	597.60						
104	1011.90	4	SLE Q	-10221.40	52.20	17006.70	50.27	28.27	17.04	501.46						
105	1071.43	4	SLE Q	-10121.70	44.79	14594.60	50.27	28.27	14.57	412.02						
106	1130.95	4	SLE Q	-10022.40	37.96	12368.80	47.12	31.42	12.28	329.90						
107	1190.48	4	SLE Q	-9923.74	31.73	10337.70	47.12	31.42	10.17	255.55						
108	1250.00	4	SLE Q	-9825.58	26.10	8505.07	47.12	31.42	8.26	189.32						
109	1309.52	4	SLE Q	-9727.94	21.09	6870.29	43.98	34.56	6.54	131.62						
110	1369.05	4	SLE Q	-9630.82	16.66	5429.47	40.84	37.70	5.02	83.09						
111	1428.57	4	SLE Q	-9534.22	12.82	4175.97	37.70	40.84	3.71	50.62						
112	1488.10	4	SLE Q	-9438.14	9.52	3100.98	31.42	47.12	2.66	37.02						
113	1547.62	4	SLE Q	-9342.56	6.73	2194.04	21.99	56.55	1.95	27.45						
114	1607.14	4	SLE Q	-9247.48	4.43	1443.46	0.00	78.54	1.50	21.42						
115	1666.67	4	SLE Q	-9152.89	2.57	836.68	0.00	78.54	1.18	17.04						
116	1726.19	4	SLE Q	-9058.80	1.11	360.56	0.00	78.54	0.92	13.58						
117	1785.71	4	SLE Q	-8965.19	0.01	1.63	0.00	78.54	0.73	10.94						
118	1845.24	4	SLE Q	-8872.06	-0.78	-253.71	0.00	78.54	0.85	12.60						
119	1904.76	4	SLE Q	-8779.41	-1.29	-419.06	0.00	78.54	0.93	13.65						
120	1964.29	4	SLE Q	-8687.23	-1.56	-507.92	0.00	78.54	0.97	14.16						
121	2023.81	4	SLE Q	-8595.52	-1.64	-533.63	0.00	78.54	0.97	14.23						
122	2083.33	4	SLE Q	-8504.27	-1.56	-509.30	0.00	78.54	0.95	13.95						
123	2142.86	4	SLE Q	-8413.47	-1.37	-447.85	0.00	78.54	0.92	13.40						
124	2202.38	4	SLE Q	-8323.13	-1.11	-361.96	0.00	78.54	0.86	12.69						
125	2261.90	4	SLE Q	-8233.23	-0.81	-264.18	0.00	78.54	0.81	11.89						
126	2321.43	4	SLE Q	-8143.77	-0.51	-166.85	0.00	78.54	0.75	11.10						
127	2380.95	4	SLE Q	-8054.75	-0.25	-82.26	0.00	78.54	0.70	10.40						
128	2440.48	4	SLE Q	-7966.16	-0.07	-22.59	0.00	78.54	0.66	9.87						
129	2500.00	4	SLE Q	-7878.00	0.00	0.00	0.00	78.54	0.64	9.61						

Stato limite d'esercizio – Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-7014.10	40721.70	124.99	46.00	136.36	0.50	20.00	200.06	25.13	1357.91	1445.41	0.42	0.14
88	59.52	4	SLE Q	-8173.46	43563.70	133.71	46.00	136.36	0.50	20.00	199.92	25.13	1356.21	1536.70	0.45	0.15
89	119.05	4	SLE Q	-8809.45	45412.70	139.38	46.00	136.36	0.50	20.00	199.87	25.13	1355.50	1597.79	0.47	0.16
90	178.57	4	SLE Q	-9445.72	46409.90	142.44	46.00	136.36	0.50	20.00	199.78	25.13	1354.43	1626.55	0.47	0.16
91	238.09	4	SLE Q	-10082.30	46685.80	143.29	46.00	136.36	0.50	20.00	199.67	25.13	1353.03	1627.93	0.47	0.16
92	297.62	4	SLE Q	-10719.20	46359.90	142.29	46.00	136.36	0.50	20.00	199.53	25.13	1351.31	1606.48	0.47	0.16
93	357.14	4	SLE Q	-11356.40	45494.50	139.63	46.00	136.36	0.50	20.00	199.37	25.13	1349.22	1564.57	0.46	0.15
94	416.67	4	SLE Q	-11250.30	44011.50	135.08	46.00	136.36	0.50	20.00	199.31	25.13	1348.53	1509.81	0.44	0.15
95	476.19	4	SLE Q	-11144.80	42002.30	128.92	46.00	136.36	0.50	20.00	199.22	25.13	1347.42	1435.09	0.42	0.14
96	535.71	4	SLE Q	-11039.90	39599.00	121.54	46.00	136.36	0.50	20.00	199.10	25.13	1345.87	1345.41	0.39	0.13
97	595.24	4	SLE Q	-10935.50	36917.10	113.31	46.00	136.36	0.50	20.00	198.94	25.13	1343.85	1245.18	0.36	0.12
98	654.76	4	SLE Q	-10831.80	34056.30	104.53	46.00	136.36	0.50	20.00	198.74	25.13	1341.30	1138.16	0.33	0.11
99	714.29	4	SLE Q	-10728.70	31101.40	95.46	46.00	136.36	0.50	20.00	198.48	25.13	1338.12	1027.61	0.30	0.10
100	773.81	4	SLE Q	-10626.10	28123.80	86.32	46.00	136.36	0.50	20.00	198.17	25.13	1334.19	916.23	0.27	0.09
101	833.33	4	SLE Q	-10524.10	25182.70	77.29	46.00	136.36	0.50	20.00	212.90	21.99	1329.33	806.27	0.23	0.08
102	892.86	4	SLE Q	-10422.70	22325.80	68.52	46.00	136.36	0.50	20.00	212.35	21.99	1323.28	699.58	0.20	0.07
103	952.38	4	SLE Q	-10321.80	19590.80	60.13	46.00	136.36	0.50	20.00	211.66	21.99	1315.68	597.60	0.17	0.06
104	1011.90	4	SLE Q	-10221.40	17006.70	52.20	46.00	136.36	0.50	20.00	210.78	21.99	1306.02	501.46	0.15	0.05
105	1071.43	4	SLE Q	-10121.70	14594.60	44.79	46.00	136.36	0.50	20.00	209.64	21.99	1293.51	412.02	0.12	0.04
106	1130.95	4	SLE Q	-10022.40	12368.80	37.96	46.00	136.36	0.50	20.00	208.13	21.99	1276.95	329.90	0.10	0.03
107	1190.48	4	SLE Q	-9923.74	10337.70	31.73	46.00	136.36	0.50	20.00	206.08	21.99	1254.39	255.55	0.07	0.03
108	1250.00	4	SLE Q	-9825.58	8505.07	26.10	46.00	136.36	0.50	20.00	203.18	21.99	1222.45	189.32	0.06	0.02
109	1309.52	4	SLE Q	-9727.94	6870.29	21.09	46.00	136.36	0.50	20.00	198.90	21.99	1175.42	131.62	0.04	0.01
110	1369.05	4	SLE Q	-9630.82	5429.47	16.66	46.00	136.36	0.50	20.00	209.01	18.85	1102.77	83.09	0.02	0.01
111	1428.57	4	SLE Q	-9534.22	4175.97	12.82	46.00	136.36	0.50	20.00	195.39	18.85	974.44	45.04	0.01	0.00
112	1488.10	4	SLE Q	-9438.14	3100.98	9.52	46.00	136.36	0.50	20.00	183.76	15.71	720.67	19.27	0.01	0.00
113	1547.62	4	SLE Q	-9342.56	2194.04	6.73	46.00	136.36	0.50	20.00	181.78	6.28	282.06	5.36	0.00	0.00
130	0.00	3	SLE F	-7014.10	40721.70	124.99	46.00	136.36	0.50	20.00	200.06	25.13	1357.91	1445.41	0.42	0.14
131	59.52	3	SLE F	-8173.46	43563.70	133.71	46.00	136.36	0.50	20.00	199.92	25.13	1356.21	1536.70	0.45	0.15
132	119.05	3	SLE F	-8809.45	45412.70	139.38	46.00	136.36	0.50	20.00	199.87	25.13	1355.50	1597.79	0.47	0.16
133	178.57	3	SLE F	-9445.72	46409.90	142.44	46.00	136.36	0.50	20.00	199.78	25.13	1354.43	1626.55	0.47	0.16
134	238.09	3	SLE F	-10082.30	46685.80	143.29	46.00	136.36	0.50	20.00	199.67	25.13	1353.03	1627.93	0.47	0.16
135	297.62	3	SLE F	-10719.20	46359.90	142.29	46.00	136.36	0.50	20.00	199.53	25.13	1351.31	1606.48	0.47	0.16
136	357.14	3	SLE F	-11356.40	45494.50	139.63	46.00	136.36	0.50	20.00	199.37	25.13	1349.22	1564.57	0.46	0.15
137	416.67	3	SLE F	-11250.30	44011.50	135.08	46.00	136.36	0.50	20.00	199.31	25.13	1348.53	1509.81	0.44	0.15
138	476.19	3	SLE F	-11144.80	42002.30	128.92	46.00	136.36	0.50	20.00	199.22	25.13	1347.42	1435.09	0.42	0.14
139	535.71	3	SLE F	-11039.90	39599.00	121.54	46.00	136.36	0.50	20.00	199.10	25.13	1345.87	1345.41	0.39	0.13
140	595.24	3	SLE F	-10935.50	36917.10	113.31	46.00	136.36	0.50	20.00	198.94	25.13	1343.85	1245.18	0.36	0.12
141	654.76	3	SLE F	-10831.80	34056.30	104.53	46.00	136.36	0.50	20.00	198.74	25.13	1341.30	1138.16	0.33	0.11
142	714.29	3	SLE F	-10728.70	31101.40	95.46	46.00	136.36	0.50	20.00	198.48	25.13	1338.12	1027.61	0.30	0.10

143	773.81	3	SLE F	-10626.10	28123.80	86.32	46.00	136.36	0.50	20.00	198.17	25.13	1334.19	916.23	0.27	0.09
144	833.33	3	SLE F	-10524.10	25182.70	77.29	46.00	136.36	0.50	20.00	212.90	21.99	1329.33	806.27	0.23	0.08
145	892.86	3	SLE F	-10422.70	22325.80	68.52	46.00	136.36	0.50	20.00	212.35	21.99	1323.28	699.58	0.20	0.07
146	952.38	3	SLE F	-10321.80	19590.80	60.13	46.00	136.36	0.50	20.00	211.66	21.99	1315.68	597.60	0.17	0.06
147	1011.90	3	SLE F	-10221.40	17006.70	52.20	46.00	136.36	0.50	20.00	210.78	21.99	1306.02	501.46	0.15	0.05
148	1071.43	3	SLE F	-10121.70	14594.60	44.79	46.00	136.36	0.50	20.00	209.64	21.99	1293.51	412.02	0.12	0.04
149	1130.95	3	SLE F	-10022.40	12368.80	37.96	46.00	136.36	0.50	20.00	208.13	21.99	1276.95	329.90	0.10	0.03
150	1190.48	3	SLE F	-9923.74	10337.70	31.73	46.00	136.36	0.50	20.00	206.08	21.99	1254.39	255.55	0.07	0.03
151	1250.00	3	SLE F	-9825.58	8505.07	26.10	46.00	136.36	0.50	20.00	203.18	21.99	1222.45	189.32	0.06	0.02
152	1309.52	3	SLE F	-9727.94	6870.29	21.09	46.00	136.36	0.50	20.00	198.90	21.99	1175.42	131.62	0.04	0.01
153	1369.05	3	SLE F	-9630.82	5429.47	16.66	46.00	136.36	0.50	20.00	209.01	18.85	1102.77	83.09	0.02	0.01
154	1428.57	3	SLE F	-9534.22	4175.97	12.82	46.00	136.36	0.50	20.00	195.39	18.85	974.44	45.04	0.01	0.00
155	1488.10	3	SLE F	-9438.14	3100.98	9.52	46.00	136.36	0.50	20.00	183.76	15.71	720.67	19.27	0.01	0.00
156	1547.62	3	SLE F	-9342.56	2194.04	6.73	46.00	136.36	0.50	20.00	181.78	6.28	282.06	5.36	0.00	0.00

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
48	C.Rare - Sc min (max compr.),C.Rare - Sf max (max traz.),C.Rare - Sf min (max compr.)
71	C.Rare - Sc max (min. compr.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf max (max traz.),C.Q.Per. - Sf min (max compr.),C.Q.Per. - Wk Max
114	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 14

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 14 (-7)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	22330.90	7611.12	-392.01	56884.80	-1333.02
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	22330.90	7611.12	-392.01	56884.80	-1333.02
2	2	SLE R	RVN	16541.40	5637.87	-290.38	42136.90	-987.42
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	16541.40	5637.87	-290.38	42136.90	-987.42
3	3	SLE F	RVN	16541.40	5637.87	-290.38	42136.90	-987.42
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	16541.40	5637.87	-290.38	42136.90	-987.42
4	4	SLE Q	RVN	16541.40	5637.87	-290.38	42136.90	-987.42
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	16541.40	5637.87	-290.38	42136.90	-987.42

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-22330.90	-7611.12	392.01	-56884.80	1333.02
2	2	SLE R	1	-16541.40	-5637.87	290.38	-42136.90	987.42
3	3	SLE F	1	-16541.40	-5637.87	290.38	-42136.90	987.42
4	4	SLE Q	1	-16541.40	-5637.87	290.38	-42136.90	987.42

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-22330.90	56636.00	1327.19	-22330.90	156229.00	3434.76	2-3	178.75	2.758
2	59.52	1	SLU	-23383.80	60425.40	1415.98	-23383.80	156672.00	3411.68	2-3	178.75	2.593

3	119.05	1	SLU	-23807.40	62859.20	1473.02	-23807.40	156850.00	3402.34	2-3	178.75	2.495
4	178.57	1	SLU	-24231.70	64131.00	1502.82	-24231.70	157028.00	3392.97	2-3	178.75	2.448
5	238.09	1	SLU	-24656.70	64419.90	1509.59	-24656.70	157207.00	3383.56	2-3	178.75	2.440
6	297.62	1	SLU	-25082.50	63889.70	1497.17	-25082.50	157386.00	3374.10	2-3	178.75	2.463
7	357.14	1	SLU	-25509.10	62626.30	1467.56	-25509.10	157565.00	3364.60	2-3	178.75	2.516
8	416.67	1	SLU	-25043.30	60525.00	1418.32	-25043.30	157369.00	3374.97	2-3	178.75	2.600
9	476.19	1	SLU	-24578.90	57711.20	1352.38	-24578.90	157174.00	3385.28	2-3	178.75	2.723
10	535.71	1	SLU	-24115.70	54365.60	1273.98	-24115.70	156980.00	3395.53	2-3	178.75	2.887
11	595.24	1	SLU	-23653.90	50645.90	1186.82	-23653.90	156785.00	3405.73	2-3	178.75	3.096
12	654.76	1	SLU	-23193.30	46688.00	1094.07	-23193.30	156592.00	3415.86	2-3	178.75	3.354
13	714.29	1	SLU	-22734.00	42607.80	998.45	-22734.00	156399.00	3425.94	2-3	178.75	3.671
14	773.81	1	SLU	-22275.90	38502.40	902.25	-22275.90	156206.00	3435.97	2-3	178.75	4.057
15	833.33	1	SLU	-21819.00	34452.10	807.34	-21819.00	156014.00	3445.94	2-3	178.75	4.528
16	892.86	1	SLU	-21363.30	30521.90	715.24	-21363.30	155822.00	3455.85	2-3	178.75	5.105
17	952.38	1	SLU	-20908.70	26763.00	627.15	-20908.70	155631.00	3465.72	2-3	178.75	5.815
18	1011.90	1	SLU	-20455.20	23214.40	544.00	-20455.20	155440.00	3475.53	2-3	178.75	6.696
19	1071.43	1	SLU	-20002.80	19904.50	466.43	-20002.80	155250.00	3485.29	2-3	178.75	7.800
20	1130.95	1	SLU	-19551.50	16852.50	394.92	-19551.50	155060.00	3495.00	2-3	178.75	9.201
21	1190.48	1	SLU	-19101.30	14069.60	329.70	-19101.30	154870.00	3504.66	2-3	178.75	11.007
22	1250.00	1	SLU	-18652.10	11560.40	270.90	-18652.10	154681.00	3514.27	2-3	178.75	13.380
23	1309.52	1	SLU	-18203.80	9323.75	218.49	-18203.80	154493.00	3523.83	2-3	178.75	16.570
24	1369.05	1	SLU	-17756.60	7354.00	172.33	-17756.60	154305.00	3533.34	2-3	178.75	20.982
25	1428.57	1	SLU	-17310.30	5641.77	132.21	-17310.30	154117.00	3542.80	2-3	178.75	27.317
26	1488.10	1	SLU	-16864.90	4174.77	97.83	-16864.90	153930.00	3552.21	2-3	178.75	36.871
27	1547.62	1	SLU	-16420.50	2938.44	68.86	-16420.50	153742.00	3561.63	2-3	178.75	52.321
28	1607.14	1	SLU	-15976.90	1916.57	44.91	-15976.90	153555.00	3571.59	2-3	178.75	80.119
29	1666.67	1	SLU	-15534.10	1091.80	25.58	-15534.10	153368.00	3582.07	2-3	178.75	>100
30	1726.19	1	SLU	-15092.30	445.99	10.45	-2571250.00	153181.00	3592.50	2-3	178.75	>100
31	1785.71	1	SLU	-14651.20	-39.41	-0.92	-2571250.00	-152887.00	-3182.88	2-3	358.75	>100
32	1845.24	1	SLU	-14210.90	-383.15	-8.98	-2571250.00	-152701.00	-3170.74	2-3	358.75	>100
33	1904.76	1	SLU	-13771.30	-603.94	-14.15	-2571250.00	-152515.00	-3158.62	2-3	358.75	>100
34	1964.29	1	SLU	-13332.50	-720.33	-16.88	-2571250.00	-152329.00	-3146.55	2-3	358.75	>100
35	2023.81	1	SLU	-12894.50	-750.64	-17.59	-2571250.00	-152143.00	-3134.51	2-3	358.75	>100
36	2083.33	1	SLU	-12457.10	-712.89	-16.71	-2571250.00	-151958.00	-3122.50	2-3	358.75	>100
37	2142.86	1	SLU	-12020.30	-624.79	-14.64	-2571250.00	-151773.00	-3110.53	2-3	358.75	>100
38	2202.38	1	SLU	-11584.30	-503.77	-11.81	-2571250.00	-151589.00	-3098.59	2-3	358.75	>100
39	2261.90	1	SLU	-11148.80	-367.01	-8.60	-2571250.00	-151404.00	-3086.68	2-3	358.75	>100
40	2321.43	1	SLU	-10714.00	-231.47	-5.42	-2571250.00	-151220.00	-3074.83	2-3	358.75	>100
41	2380.95	1	SLU	-10279.70	-113.99	-2.67	-2571250.00	-151037.00	-3063.05	2-3	358.75	>100
42	2440.48	1	SLU	-9845.93	-31.27	-0.73	-2571250.00	-150852.00	-3051.14	2-3	358.75	>100
43	2500.00	1	SLU	-9412.73	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7611.12	-392.01	0.85	11.31	7621.21	1.00	32294.70	334867.00	32294.70	4.237
2	59.52	1	SLU	5165.83	-266.07	0.85	11.31	5172.68	1.00	32294.70	335018.00	32294.70	6.243
3	119.05	1	SLU	3057.38	-157.47	0.85	11.31	3061.43	1.00	32294.70	335078.00	32294.70	10.549
4	178.57	1	SLU	1261.63	-64.98	0.85	11.31	1263.30	1.00	32294.70	335139.00	32294.70	25.564
5	238.09	1	SLU	-246.29	12.69	0.85	11.31	246.61	1.00	32294.70	335200.00	32294.70	>100
6	297.62	1	SLU	-1491.52	76.82	0.85	11.31	1493.50	1.00	32294.70	335261.00	32294.70	21.623
7	357.14	1	SLU	-2817.71	145.13	0.85	11.31	2821.44	1.00	32294.70	335322.00	32294.70	11.446
8	416.67	1	SLU	-4178.21	215.20	0.85	11.31	4183.75	1.00	32294.70	335255.00	32294.70	7.719
9	476.19	1	SLU	-5215.65	268.63	0.85	11.31	5222.57	1.00	32294.70	335189.00	32294.70	6.184
10	535.71	1	SLU	-5969.60	307.46	0.85	11.31	5977.52	1.00	32294.70	335122.00	32294.70	5.403
11	595.24	1	SLU	-6477.57	333.63	0.85	11.31	6486.16	1.00	32294.70	335056.00	32294.70	4.979
12	654.76	1	SLU	-6774.67	348.93	0.85	11.31	6783.65	1.00	32294.70	334990.00	32294.70	4.761
13	714.29	1	SLU	-6893.46	355.05	0.85	11.31	6902.60	1.00	32294.70	334925.00	32294.70	4.679
14	773.81	1	SLU	-6863.77	353.52	0.85	11.31	6872.87	1.00	32294.70	334859.00	32294.70	4.699
15	833.33	1	SLU	-6712.71	345.74	0.85	11.31	6721.61	1.00	32294.70	334793.00	32294.70	4.805
16	892.86	1	SLU	-6464.64	332.96	0.85	11.31	6473.21	1.00	32294.70	334728.00	32294.70	4.989
17	952.38	1	SLU	-6141.26	316.31	0.85	11.31	6149.40	1.00	32294.70	334663.00	32294.70	5.252
18	1011.90	1	SLU	-5761.68	296.75	0.85	11.31	5769.31	1.00	32294.70	334598.00	32294.70	5.598
19	1071.43	1	SLU	-5342.57	275.17	0.85	11.31	5349.65	1.00	32294.70	334533.00	32294.70	6.037
20	1130.95	1	SLU	-4898.31	252.29	0.85	11.31	4904.80	1.00	32294.70	334469.00	32294.70	6.584
21	1190.48	1	SLU	-4441.14	228.74	0.85	11.31	4447.03	1.00	32294.70	334404.00	32294.70	7.262
22	1250.00	1	SLU	-3981.37	205.06	0.85	11.31	3986.65	1.00	32294.70	334340.00	32294.70	8.101
23	1309.52	1	SLU	-3527.53	181.69	0.85	11.31	3532.20	1.00	32294.70	334276.00	32294.70	9.143
24	1369.05	1	SLU	-3086.54	158.97	0.85	11.31	3090.63	1.00	32294.70	334212.00	32294.70	10.449
25	1428.57	1	SLU	-2663.96	137.21	0.85	11.31	2667.49	1.00	32294.70	334148.00	32294.70	12.107
26	1488.10	1	SLU	-2264.09	116.61	0.85	11.31	2267.09	1.00	32294.70	334084.00	32294.70	14.245
27	1547.62	1	SLU	-1890.18	97.35	0.85	11.31	1892.68	1.00	32294.70	334020.00	32294.70	17.063
28	1607.14	1	SLU	-1544.57	79.55	0.85	11.31	1546.61	1.00	32294.70	333957.00	32294.70	20.881
29	1666.67	1	SLU	-1228.85	63.29	0.85	11.31	1230.48	1.00	32294.70	333893.00	32294.70	26.246
30	1726.19	1	SLU	-944.00	48.62	0.85	11.31	945.25	1.00	32294.70	333830.00	32294.70	34.165
31	1785.71	1	SLU	-690.51	35.56	0.85	11.31	691.42	1.00	32294.70	333767.00	32294.70	46.708
32	1845.24	1	SLU	-468.49	24.13	0.85	11.31	469.11	1.00	32294.70	333704.00	32294.70	68.843

33	1904.76	1	SLU	-277.77	14.31	0.85	11.31	278.14	1.00	32294.70	333641.00	32294.70	>100
34	1964.29	1	SLU	-118.02	6.08	0.85	11.31	118.17	1.00	32294.70	333578.00	32294.70	>100
35	2023.81	1	SLU	11.25	-0.58	0.85	11.31	11.26	1.00	32294.70	333515.00	32294.70	>100
36	2083.33	1	SLU	110.52	-5.69	0.85	11.31	110.67	1.00	32294.70	333452.00	32294.70	>100
37	2142.86	1	SLU	180.31	-9.29	0.85	11.31	180.55	1.00	32294.70	333390.00	32294.70	>100
38	2202.38	1	SLU	221.08	-11.39	0.85	11.31	221.37	1.00	32294.70	333327.00	32294.70	>100
39	2261.90	1	SLU	233.21	-12.01	0.85	11.31	233.52	1.00	32294.70	333265.00	32294.70	>100
40	2321.43	1	SLU	217.00	-11.18	0.85	11.31	217.29	1.00	32294.70	333203.00	32294.70	>100
41	2380.95	1	SLU	172.66	-8.89	0.85	11.31	172.89	1.00	32294.70	333141.00	32294.70	>100
42	2440.48	1	SLU	100.31	-5.17	0.85	11.31	100.44	1.00	32294.70	333078.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_F <daN/cmq>
44	0.00	2	SLE R	-16541.40	983.10	41952.60	50.27	28.27	42.33	1356.02
45	59.52	2	SLE R	-17634.60	1048.88	44759.50	50.27	28.27	45.16	1446.94
46	119.05	2	SLE R	-18138.40	1091.12	46562.40	50.27	28.27	46.99	1508.11
47	178.57	2	SLE R	-18642.80	1113.20	47504.50	50.27	28.27	47.93	1536.70
48	238.09	2	SLE R	-19147.80	1118.21	47718.40	50.27	28.27	48.14	1537.73
49	297.62	2	SLE R	-19653.40	1109.01	47325.70	50.27	28.27	47.72	1515.80
50	357.14	2	SLE R	-20159.60	1087.08	46389.90	50.27	28.27	46.75	1473.34
51	416.67	2	SLE R	-19829.80	1050.61	44833.30	50.27	28.27	45.17	1419.07
52	476.19	2	SLE R	-19501.00	1001.76	42749.00	50.27	28.27	43.06	1344.85
53	535.71	2	SLE R	-19173.30	943.69	40270.80	50.27	28.27	40.53	1255.74
54	595.24	2	SLE R	-18846.60	879.12	37515.50	50.27	28.27	37.73	1156.18
55	654.76	2	SLE R	-18520.90	810.42	34583.70	50.27	28.27	34.74	1050.00
56	714.29	2	SLE R	-18196.20	739.60	31561.30	50.27	28.27	31.66	940.47
57	773.81	2	SLE R	-17872.50	668.33	28520.30	50.27	28.27	28.55	830.35
58	833.33	2	SLE R	-17549.70	598.03	25520.10	50.27	28.27	25.48	721.92
59	892.86	2	SLE R	-17227.90	529.81	22608.80	50.27	28.27	22.49	617.05
60	952.38	2	SLE R	-16907.00	464.56	19824.50	47.12	31.42	19.63	517.25
61	1011.90	2	SLE R	-16587.00	402.96	17195.90	47.12	31.42	16.92	423.73
62	1071.43	2	SLE R	-16267.90	345.51	14744.10	47.12	31.42	14.37	337.43
63	1130.95	2	SLE R	-15949.70	292.53	12483.30	43.98	34.56	12.02	259.14
64	1190.48	2	SLE R	-15632.30	244.22	10422.00	43.98	34.56	9.86	189.60
65	1250.00	2	SLE R	-15315.80	200.67	8563.26	40.84	37.70	7.91	129.67
66	1309.52	2	SLE R	-15000.10	161.84	6906.48	37.70	40.84	6.18	84.23
67	1369.05	2	SLE R	-14685.20	127.65	5447.41	34.56	43.98	4.73	65.27
68	1428.57	2	SLE R	-14371.10	97.93	4179.09	28.27	50.27	3.59	50.28
69	1488.10	2	SLE R	-14057.70	72.47	3092.42	18.85	59.69	2.79	39.50
70	1547.62	2	SLE R	-13745.10	51.01	2176.62	0.00	78.54	2.24	32.07
71	1607.14	2	SLE R	-13433.30	33.27	1419.69	0.00	78.54	1.83	26.37
72	1666.67	2	SLE R	-13122.10	18.95	808.74	0.00	78.54	1.49	21.69
73	1726.19	2	SLE R	-12811.70	7.74	330.37	0.00	78.54	1.21	17.95
74	1785.71	2	SLE R	-12502.00	-0.68	-29.20	0.00	78.54	1.03	15.45
75	1845.24	2	SLE R	-12192.90	-6.65	-283.82	0.00	78.54	1.14	16.86
76	1904.76	2	SLE R	-11884.50	-10.48	-447.36	0.00	78.54	1.20	17.63
77	1964.29	2	SLE R	-11576.70	-12.50	-533.58	0.00	78.54	1.22	17.86
78	2023.81	2	SLE R	-11269.50	-13.03	-556.03	0.00	78.54	1.20	17.64
79	2083.33	2	SLE R	-10963.00	-12.37	-528.07	0.00	78.54	1.16	17.07
80	2142.86	2	SLE R	-10657.00	-10.85	-462.81	0.00	78.54	1.11	16.24
81	2202.38	2	SLE R	-10351.60	-8.74	-373.16	0.00	78.54	1.03	15.24
82	2261.90	2	SLE R	-10046.80	-6.37	-271.86	0.00	78.54	0.96	14.16
83	2321.43	2	SLE R	-9742.47	-4.02	-171.46	0.00	78.54	0.88	13.08
84	2380.95	2	SLE R	-9438.69	-1.98	-84.44	0.00	78.54	0.81	12.10
85	2440.48	2	SLE R	-9135.41	-0.54	-23.17	0.00	78.54	0.75	11.30
86	2500.00	2	SLE R	-8832.63	0.00	0.00	0.00	78.54	0.72	10.77
87	0.00	4	SLE Q	-16541.40	983.10	41952.60	50.27	28.27	42.33	1356.02
88	59.52	4	SLE Q	-17634.60	1048.88	44759.50	50.27	28.27	45.16	1446.94
89	119.05	4	SLE Q	-18138.40	1091.12	46562.40	50.27	28.27	46.99	1508.11
90	178.57	4	SLE Q	-18642.80	1113.20	47504.50	50.27	28.27	47.93	1536.70
91	238.09	4	SLE Q	-19147.80	1118.21	47718.40	50.27	28.27	48.14	1537.73
92	297.62	4	SLE Q	-19653.40	1109.01	47325.70	50.27	28.27	47.72	1515.80
93	357.14	4	SLE Q	-20159.60	1087.08	46389.90	50.27	28.27	46.75	1473.34
94	416.67	4	SLE Q	-19829.80	1050.61	44833.30	50.27	28.27	45.17	1419.07
95	476.19	4	SLE Q	-19501.00	1001.76	42749.00	50.27	28.27	43.06	1344.85
96	535.71	4	SLE Q	-19173.30	943.69	40270.80	50.27	28.27	40.53	1255.74
97	595.24	4	SLE Q	-18846.60	879.12	37515.50	50.27	28.27	37.73	1156.18
98	654.76	4	SLE Q	-18520.90	810.42	34583.70	50.27	28.27	34.74	1050.00
99	714.29	4	SLE Q	-18196.20	739.60	31561.30	50.27	28.27	31.66	940.47
100	773.81	4	SLE Q	-17872.50	668.33	28520.30	50.27	28.27	28.55	830.35
101	833.33	4	SLE Q	-17549.70	598.03	25520.10	50.27	28.27	25.48	721.92
102	892.86	4	SLE Q	-17227.90	529.81	22608.80	50.27	28.27	22.49	617.05
103	952.38	4	SLE Q	-16907.00	464.56	19824.50	47.12	31.42	19.63	517.25
104	1011.90	4	SLE Q	-16587.00	402.96	17195.90	47.12	31.42	16.92	423.73
105	1071.43	4	SLE Q	-16267.90	345.51	14744.10	47.12	31.42	14.37	337.43
106	1130.95	4	SLE Q	-15949.70	292.53	12483.30	43.98	34.56	12.02	259.14

107	1190.48	4	SLE Q	-15632.30	244.22	10422.00	43.98	34.56	9.86	189.60	
108	1250.00	4	SLE Q	-15315.80	200.67	8563.26	40.84	37.70	7.91	129.67	
109	1309.52	4	SLE Q	-15000.10	161.84	6906.48	37.70	40.84	6.18	84.23	
110	1369.05	4	SLE Q	-14685.20	127.65	5447.41	34.56	43.98	4.73	65.27	
111	1428.57	4	SLE Q	-14371.10	97.93	4179.09	28.27	50.27	3.59	50.28	
112	1488.10	4	SLE Q	-14057.70	72.47	3092.42	18.85	59.69	2.79	39.50	
113	1547.62	4	SLE Q	-13745.10	51.01	2176.62	0.00	78.54	2.24	32.07	
114	1607.14	4	SLE Q	-13433.30	33.27	1419.69	0.00	78.54	1.83	26.37	
115	1666.67	4	SLE Q	-13122.10	18.95	808.74	0.00	78.54	1.49	21.69	
116	1726.19	4	SLE Q	-12811.70	7.74	330.37	0.00	78.54	1.21	17.95	
117	1785.71	4	SLE Q	-12502.00	-0.68	-29.20	0.00	78.54	1.03	15.45	
118	1845.24	4	SLE Q	-12192.90	-6.65	-283.82	0.00	78.54	1.14	16.86	
119	1904.76	4	SLE Q	-11884.50	-10.48	-447.36	0.00	78.54	1.20	17.63	
120	1964.29	4	SLE Q	-11576.70	-12.50	-533.58	0.00	78.54	1.22	17.86	
121	2023.81	4	SLE Q	-11269.50	-13.03	-556.03	0.00	78.54	1.20	17.64	
122	2083.33	4	SLE Q	-10963.00	-12.37	-528.07	0.00	78.54	1.16	17.07	
123	2142.86	4	SLE Q	-10657.00	-10.85	-462.81	0.00	78.54	1.11	16.24	
124	2202.38	4	SLE Q	-10351.60	-8.74	-373.16	0.00	78.54	1.03	15.24	
125	2261.90	4	SLE Q	-10046.80	-6.37	-271.86	0.00	78.54	0.96	14.16	
126	2321.43	4	SLE Q	-9742.47	-4.02	-171.46	0.00	78.54	0.88	13.08	
127	2380.95	4	SLE Q	-9438.69	-1.98	-84.44	0.00	78.54	0.81	12.10	
128	2440.48	4	SLE Q	-9135.41	-0.54	-23.17	0.00	78.54	0.75	11.30	
129	2500.00	4	SLE Q	-8832.63	0.00	0.00	0.00	78.54	0.72	10.77	

Stato limite d'esercizio – Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-16541.40	41952.60	983.10	46.00	136.36	0.50	20.00	198.03	25.13	1332.43	1356.02	0.39	0.13
88	59.52	4	SLE Q	-17634.60	44759.50	1048.88	46.00	136.36	0.50	20.00	198.03	25.13	1332.47	1446.94	0.42	0.14
89	119.05	4	SLE Q	-18138.40	46562.40	1091.12	46.00	136.36	0.50	20.00	198.08	25.13	1333.00	1508.11	0.44	0.15
90	178.57	4	SLE Q	-18642.80	47504.50	1113.20	46.00	136.36	0.50	20.00	198.05	25.13	1332.65	1536.70	0.45	0.15
91	238.09	4	SLE Q	-19147.80	47718.40	1118.21	46.00	136.36	0.50	20.00	197.96	25.13	1331.58	1537.73	0.45	0.15
92	297.62	4	SLE Q	-19653.40	47325.70	1109.01	46.00	136.36	0.50	20.00	197.83	25.13	1329.88	1515.80	0.44	0.15
93	357.14	4	SLE Q	-20159.60	46389.90	1087.08	46.00	136.36	0.50	20.00	197.64	25.13	1327.51	1473.34	0.43	0.14
94	416.67	4	SLE Q	-19829.80	44833.30	1050.61	46.00	136.36	0.50	20.00	197.56	25.13	1326.56	1419.07	0.41	0.14
95	476.19	4	SLE Q	-19501.00	42749.00	1001.76	46.00	136.36	0.50	20.00	197.43	25.13	1324.84	1344.85	0.39	0.13
96	535.71	4	SLE Q	-19173.30	40270.80	943.69	46.00	136.36	0.50	20.00	197.23	25.13	1322.35	1255.74	0.37	0.12
97	595.24	4	SLE Q	-18846.60	37515.50	879.12	46.00	136.36	0.50	20.00	196.97	25.13	1319.04	1156.18	0.34	0.11
98	654.76	4	SLE Q	-18520.90	34583.70	810.42	46.00	136.36	0.50	20.00	196.63	25.13	1314.80	1050.00	0.31	0.10
99	714.29	4	SLE Q	-18196.20	31561.30	739.60	46.00	136.36	0.50	20.00	196.21	25.13	1309.48	940.47	0.27	0.09
100	773.81	4	SLE Q	-17872.50	28520.30	668.33	46.00	136.36	0.50	20.00	195.68	25.13	1302.85	830.35	0.24	0.08
101	833.33	4	SLE Q	-17549.70	25520.10	598.03	46.00	136.36	0.50	20.00	209.74	21.99	1294.56	721.92	0.21	0.07
102	892.86	4	SLE Q	-17227.90	22608.80	529.81	46.00	136.36	0.50	20.00	208.79	21.99	1284.16	617.05	0.18	0.06
103	952.38	4	SLE Q	-16907.00	19824.50	464.56	46.00	136.36	0.50	20.00	207.59	21.99	1270.96	517.25	0.15	0.05
104	1011.90	4	SLE Q	-16587.00	17195.90	402.96	46.00	136.36	0.50	20.00	206.04	21.99	1253.94	423.73	0.12	0.04
105	1071.43	4	SLE Q	-16267.90	14744.10	345.51	46.00	136.36	0.50	20.00	204.01	21.99	1231.64	337.43	0.10	0.03
106	1130.95	4	SLE Q	-15949.70	12483.30	292.53	46.00	136.36	0.50	20.00	201.29	21.99	1201.69	259.14	0.08	0.03
107	1190.48	4	SLE Q	-15632.30	10422.00	244.22	46.00	136.36	0.50	20.00	215.10	18.85	1160.20	189.60	0.06	0.02
108	1250.00	4	SLE Q	-15315.80	8563.26	200.67	46.00	136.36	0.50	20.00	208.72	18.85	1100.07	129.67	0.04	0.01
109	1309.52	4	SLE Q	-15000.10	6906.48	161.84	46.00	136.36	0.50	20.00	198.71	18.85	1005.73	80.52	0.02	0.01
110	1369.05	4	SLE Q	-14685.20	5447.41	127.65	46.00	136.36	0.50	20.00	200.40	15.71	851.35	43.58	0.01	0.00
111	1428.57	4	SLE Q	-14371.10	4179.09	97.93	46.00	136.36	0.50	20.00	179.94	12.57	552.54	19.39	0.01	0.00
112	1488.10	4	SLE Q	-14057.70	3092.42	72.47	46.00	136.36	0.50	20.00	160.11	6.28	213.97	5.76	0.00	0.00
130	0.00	3	SLE F	-16541.40	41952.60	983.10	46.00	136.36	0.50	20.00	198.03	25.13	1332.43	1356.02	0.39	0.13
131	59.52	3	SLE F	-17634.60	44759.50	1048.88	46.00	136.36	0.50	20.00	198.03	25.13	1332.47	1446.94	0.42	0.14
132	119.05	3	SLE F	-18138.40	46562.40	1091.12	46.00	136.36	0.50	20.00	198.08	25.13	1333.00	1508.11	0.44	0.15
133	178.57	3	SLE F	-18642.80	47504.50	1113.20	46.00	136.36	0.50	20.00	198.05	25.13	1332.65	1536.70	0.45	0.15
134	238.09	3	SLE F	-19147.80	47718.40	1118.21	46.00	136.36	0.50	20.00	197.96	25.13	1331.58	1537.73	0.45	0.15
135	297.62	3	SLE F	-19653.40	47325.70	1109.01	46.00	136.36	0.50	20.00	197.83	25.13	1329.88	1515.80	0.44	0.15
136	357.14	3	SLE F	-20159.60	46389.90	1087.08	46.00	136.36	0.50	20.00	197.64	25.13	1327.51	1473.34	0.43	0.14
137	416.67	3	SLE F	-19829.80	44833.30	1050.61	46.00	136.36	0.50	20.00	197.56	25.13	1326.56	1419.07	0.41	0.14
138	476.19	3	SLE F	-19501.00	42749.00	1001.76	46.00	136.36	0.50	20.00	197.43	25.13	1324.84	1344.85	0.39	0.13
139	535.71	3	SLE F	-19173.30	40270.80	943.69	46.00	136.36	0.50	20.00	197.23	25.13	1322.35	1255.74	0.37	0.12
140	595.24	3	SLE F	-18846.60	37515.50	879.12	46.00	136.36	0.50	20.00	196.97	25.13	1319.04	1156.18	0.34	0.11
141	654.76	3	SLE F	-18520.90	34583.70	810.42	46.00	136.36	0.50	20.00	196.63	25.13	1314.80	1050.00	0.31	0.10
142	714.29	3	SLE F	-18196.20	31561.30	739.60	46.00	136.36	0.50	20.00	196.21	25.13	1309.48	940.47	0.27	0.09
143	773.81	3	SLE F	-17872.50	28520.30	668.33	46.00	136.36	0.50	20.00	195.68	25.13	1302.85	830.35	0.24	0.08
144	833.33	3	SLE F	-17549.70	25520.10	598.03	46.00	136.36	0.50	20.00	209.74	21.99	1294.56	721.92	0.21	0.07
145	892.86	3	SLE F	-17227.90	22608.80	529.81	46.00	136.36	0.50	20.00	208.79	21.99	1284.16	617.05	0.18	0.06
146	952.38	3	SLE F	-16907.00	19824.50	464.56	46.00	136.36	0.50	20.00	207.59	21.99	1270.96	517.25	0.15	0.05
147	1011.90	3	SLE F	-16587.00	17195.90	402.96	46.00	136.36	0.50	20.00	206.04	21.99	1253.94	423.73	0.12	0.04
148	1071.43	3	SLE F	-16267.90	14744.10	345.51	46.00	136.36	0.50	20.00	204.01	21.99	1231.64	337.43	0.10	0.03
149	1130.95	3	SLE F	-15949.70	12483.30	292.53	46.00	136.36	0.50	20.00	201.29	21.99	1201.69	259.14	0.08	0.03
150	1190.48	3	SLE F	-15632.30	10422.00	244.22	46.00	136.36	0.50	20.00	215.10	18.85	1160.20	189.60	0.06	0.02
151	1250.00	3	SLE F	-15315.80	8563.26	200.67	46.00	136.36	0.50	20.00	208.72	18.85	1100.07	129.67	0.04	0.01
152	1309.52	3	SLE F	-15000.10	6906.48	161.84	46.00	136.36	0.50	20.00	198.71	18.85	1005.73	80.52	0.02	0.01
153	1369.05	3	SLE F	-14685.20	5447.41	127.65	46.00	136.36	0.50	20.00	200.40	15.71	851.35	43.58	0.01	0.00

154	1428.57	3	SLE F	-14371.10	4179.09	97.93	46.00	136.36	0.50	20.00	179.94	12.57	552.54	19.39	0.01	0.00
155	1488.10	3	SLE F	-14057.70	3092.42	72.47	46.00	136.36	0.50	20.00	160.11	6.28	213.97	5.76	0.00	0.00

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
48	C.Rare - Sc min (max compr.),C.Rare - Sf max (max traz.),C.Rare - Sf min (max compr.)
71	C.Rare - Sc max (min. compr.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf max (max traz.),C.Q.Per. - Sf min (max compr.),C.Q.Per. - Wk Max
114	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 15

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 15 (-15)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	46827.10	7464.87	-621.44	59215.90	-4662.64
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	46827.10	7464.87	-621.44	59215.90	-4662.64
2	2	SLE R	RVN	34686.80	5529.53	-460.33	43863.60	-3453.80
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	34686.80	5529.53	-460.33	43863.60	-3453.80
3	3	SLE F	RVN	34686.80	5529.53	-460.33	43863.60	-3453.80
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	34686.80	5529.53	-460.33	43863.60	-3453.80
4	4	SLE Q	RVN	34686.80	5529.53	-460.33	43863.60	-3453.80
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	34686.80	5529.53	-460.33	43863.60	-3453.80

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-46827.10	-7464.87	621.44	-59215.90	4662.64
2	2	SLE R	1	-34686.80	-5529.53	460.33	-43863.60	3453.80
3	3	SLE F	1	-34686.80	-5529.53	460.33	-43863.60	3453.80
4	4	SLE Q	1	-34686.80	-5529.53	460.33	-43863.60	3453.80

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-46827.10	58964.10	4642.81	-46827.10	165961.00	12911.50	2-3	175.62	2.814
2	59.52	1	SLU	-47709.80	62653.80	4933.33	-47709.80	166315.00	12935.00	2-3	175.62	2.654
3	119.05	1	SLU	-47793.50	64972.00	5115.87	-47793.50	166348.00	12937.20	2-3	175.62	2.560
4	178.57	1	SLU	-47878.80	66116.10	5205.95	-47878.80	166382.00	12939.50	2-3	175.62	2.516
5	238.09	1	SLU	-47965.50	66268.50	5217.95	-47965.50	166417.00	12941.80	2-3	175.62	2.511
6	297.62	1	SLU	-48053.80	65596.10	5165.01	-48053.80	166452.00	12944.20	2-3	175.62	2.537
7	357.14	1	SLU	-48143.50	64187.20	5054.07	-48143.50	166488.00	12946.60	2-3	175.62	2.594
8	416.67	1	SLU	-47102.50	61938.80	4877.04	-47102.50	166071.00	12918.80	2-3	175.62	2.681
9	476.19	1	SLU	-46064.00	58979.10	4643.99	-46064.00	165655.00	12891.10	2-3	175.62	2.809
10	535.71	1	SLU	-45028.00	55491.30	4369.36	-45028.00	165240.00	12863.40	2-3	175.62	2.978
11	595.24	1	SLU	-43994.40	51634.70	4065.70	-43994.40	164826.00	12835.80	2-3	175.62	3.192
12	654.76	1	SLU	-42963.10	47547.00	3743.83	-42963.10	164412.00	12808.20	2-3	175.62	3.458
13	714.29	1	SLU	-41934.20	43345.10	3412.98	-41934.20	163999.00	12780.60	2-3	175.62	3.783
14	773.81	1	SLU	-40907.50	39126.90	3080.84	-40907.50	163587.00	12753.20	2-3	175.62	4.181

15	833.33	1	SLU	-39883.00	34973.20	2753.78	-39883.00	163175.00	12726.30	2-3	175.62	4.665
16	892.86	1	SLU	-38860.60	30949.20	2436.92	-38860.60	162763.00	12699.50	2-3	175.62	5.259
17	952.38	1	SLU	-37840.30	27105.90	2134.31	-37840.30	162353.00	12672.70	2-3	175.62	5.989
18	1011.90	1	SLU	-36822.10	23482.40	1848.99	-36822.10	161943.00	12645.90	2-3	175.62	6.896
19	1071.43	1	SLU	-35805.80	20106.70	1583.19	-35805.80	161533.00	12619.20	2-3	175.62	8.033
20	1130.95	1	SLU	-34791.40	16997.60	1338.39	-34791.40	161121.00	12574.50	2-3	175.62	9.479
21	1190.48	1	SLU	-33778.90	14165.90	1115.42	-33778.90	160706.00	12506.20	2-3	175.62	11.344
22	1250.00	1	SLU	-32768.30	11615.50	914.60	-32768.30	160291.00	12438.10	2-3	175.62	13.799
23	1309.52	1	SLU	-31759.30	9344.84	735.81	-31759.30	159877.00	12370.20	2-3	175.62	17.107
24	1369.05	1	SLU	-30752.10	7347.56	578.54	-30752.10	159462.00	12301.40	2-3	175.62	21.700
25	1428.57	1	SLU	-29746.50	5613.70	442.02	-29746.50	159048.00	12231.20	2-3	175.62	28.328
26	1488.10	1	SLU	-28742.60	4130.35	325.22	-28742.60	158634.00	12161.30	2-3	175.62	38.401
27	1547.62	1	SLU	-27740.10	2882.38	226.96	-27740.10	158047.00	13812.80	2-3	175.00	54.871
28	1607.14	1	SLU	-26739.20	1853.00	145.90	-26739.20	157634.00	13741.70	2-3	175.00	85.129
29	1666.67	1	SLU	-25739.70	1024.27	80.65	-2571250.00	157221.00	13670.80	2-3	175.00	99.894
30	1726.19	1	SLU	-24741.50	377.55	29.73	-2571250.00	156809.00	13600.20	2-3	175.00	>100
31	1785.71	1	SLU	-23744.70	-106.24	-8.37	-2571250.00	-156215.00	-13566.50	2-3	355.00	>100
32	1845.24	1	SLU	-22749.20	-446.30	-35.14	-2571250.00	-155795.00	-13543.80	2-3	355.00	>100
33	1904.76	1	SLU	-21754.90	-661.80	-52.11	-2571250.00	-155376.00	-13520.90	2-3	355.00	>100
34	1964.29	1	SLU	-20761.80	-771.71	-60.76	-2571250.00	-154957.00	-13498.10	2-3	355.00	>100
35	2023.81	1	SLU	-19769.70	-794.74	-62.58	-2571250.00	-154539.00	-13475.20	2-3	355.00	>100
36	2083.33	1	SLU	-18778.80	-749.30	-59.00	-2571250.00	-154122.00	-13452.40	2-3	355.00	>100
37	2142.86	1	SLU	-17788.80	-653.47	-51.45	-2571250.00	-153705.00	-13429.50	2-3	355.00	>100
38	2202.38	1	SLU	-16799.80	-525.02	-41.34	-2571250.00	-153285.00	-13406.30	2-3	355.00	>100
39	2261.90	1	SLU	-15811.70	-381.45	-30.04	-2571250.00	-152992.00	-11670.70	2-3	355.62	>100
40	2321.43	1	SLU	-14824.40	-240.07	-18.90	-2571250.00	-152574.00	-11649.90	2-3	355.62	>100
41	2380.95	1	SLU	-13838.00	-118.02	-9.29	-2571250.00	-152155.00	-11629.10	2-3	355.62	>100
42	2440.48	1	SLU	-12852.30	-32.33	-2.55	-2571250.00	-151737.00	-11608.20	2-3	355.62	>100
43	2500.00	1	SLU	-11867.20	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7464.87	-621.44	0.85	11.31	7490.69	1.00	32294.70	338376.00	32294.70	4.311
2	59.52	1	SLU	4987.45	-415.20	0.85	11.31	5004.70	1.00	32294.70	338502.00	32294.70	6.453
3	119.05	1	SLU	2854.09	-237.60	0.85	11.31	2863.96	1.00	32294.70	338514.00	32294.70	11.276
4	178.57	1	SLU	1039.77	-86.56	0.85	11.31	1043.37	1.00	32294.70	338526.00	32294.70	30.952
5	238.09	1	SLU	-481.18	40.06	0.85	11.31	482.84	1.00	32294.70	338539.00	32294.70	66.885
6	297.62	1	SLU	-1734.68	144.41	0.85	11.31	1740.68	1.00	32294.70	338551.00	32294.70	18.553
7	357.14	1	SLU	-3065.92	255.23	0.85	11.31	3076.53	1.00	32294.70	338564.00	32294.70	10.497
8	416.67	1	SLU	-4427.83	368.61	0.85	11.31	4443.15	1.00	32294.70	338415.00	32294.70	7.268
9	476.19	1	SLU	-5461.88	454.69	0.85	11.31	5480.77	1.00	32294.70	338266.00	32294.70	5.892
10	535.71	1	SLU	-6208.58	516.86	0.85	11.31	6230.05	1.00	32294.70	338118.00	32294.70	5.184
11	595.24	1	SLU	-6706.25	558.29	0.85	11.31	6729.45	1.00	32294.70	337970.00	32294.70	4.799
12	654.76	1	SLU	-6990.74	581.97	0.85	11.31	7014.93	1.00	32294.70	337822.00	32294.70	4.604
13	714.29	1	SLU	-7095.25	590.67	0.85	11.31	7119.79	1.00	32294.70	337675.00	32294.70	4.536
14	773.81	1	SLU	-7050.17	586.92	0.85	11.31	7074.55	1.00	32294.70	337528.00	32294.70	4.565
15	833.33	1	SLU	-6883.06	573.00	0.85	11.31	6906.87	1.00	32294.70	337381.00	32294.70	4.676
16	892.86	1	SLU	-6618.70	551.00	0.85	11.31	6641.60	1.00	32294.70	337234.00	32294.70	4.862
17	952.38	1	SLU	-6279.11	522.73	0.85	11.31	6300.83	1.00	32294.70	337088.00	32294.70	5.125
18	1011.90	1	SLU	-5883.68	489.81	0.85	11.31	5904.03	1.00	32294.70	336942.00	32294.70	5.470
19	1071.43	1	SLU	-5449.28	453.64	0.85	11.31	5468.13	1.00	32294.70	336797.00	32294.70	5.906
20	1130.95	1	SLU	-4990.47	415.45	0.85	11.31	5007.73	1.00	32294.70	336652.00	32294.70	6.449
21	1190.48	1	SLU	-4519.61	376.25	0.85	11.31	4535.24	1.00	32294.70	336507.00	32294.70	7.121
22	1250.00	1	SLU	-4047.09	336.91	0.85	11.31	4061.09	1.00	32294.70	336362.00	32294.70	7.952
23	1309.52	1	SLU	-3581.49	298.15	0.85	11.31	3593.88	1.00	32294.70	336217.00	32294.70	8.986
24	1369.05	1	SLU	-3129.78	260.55	0.85	11.31	3140.61	1.00	32294.70	336073.00	32294.70	10.283
25	1428.57	1	SLU	-2697.51	224.56	0.85	11.31	2706.84	1.00	32294.70	335929.00	32294.70	11.931
26	1488.10	1	SLU	-2288.98	190.55	0.85	11.31	2296.90	1.00	32294.70	335785.00	32294.70	14.060
27	1547.62	1	SLU	-1907.41	158.79	0.85	11.31	1914.01	1.00	32294.70	335642.00	32294.70	16.873
28	1607.14	1	SLU	-1555.11	129.46	0.85	11.31	1560.49	1.00	32294.70	335498.00	32294.70	20.695
29	1666.67	1	SLU	-1233.64	102.70	0.85	11.31	1237.90	1.00	32294.70	335355.00	32294.70	26.088
30	1726.19	1	SLU	-943.92	78.58	0.85	11.31	947.18	1.00	32294.70	335212.00	32294.70	34.096
31	1785.71	1	SLU	-686.40	57.14	0.85	11.31	688.78	1.00	32294.70	335069.00	32294.70	46.887
32	1845.24	1	SLU	-461.15	38.39	0.85	11.31	462.75	1.00	32294.70	334927.00	32294.70	69.789
33	1904.76	1	SLU	-267.96	22.31	0.85	11.31	268.89	1.00	32294.70	334784.00	32294.70	>100
34	1964.29	1	SLU	-106.44	8.86	0.85	11.31	106.81	1.00	32294.70	334642.00	32294.70	>100
35	2023.81	1	SLU	23.92	-1.99	0.85	11.31	24.00	1.00	32294.70	334500.00	32294.70	>100
36	2083.33	1	SLU	123.64	-10.29	0.85	11.31	124.07	1.00	32294.70	334358.00	32294.70	>100
37	2142.86	1	SLU	193.27	-16.09	0.85	11.31	193.94	1.00	32294.70	334216.00	32294.70	>100
38	2202.38	1	SLU	233.28	-19.42	0.85	11.31	234.09	1.00	32294.70	334074.00	32294.70	>100
39	2261.90	1	SLU	244.08	-20.32	0.85	11.31	244.93	1.00	32294.70	333933.00	32294.70	>100
40	2321.43	1	SLU	225.98	-18.81	0.85	11.31	226.76	1.00	32294.70	333792.00	32294.70	>100
41	2380.95	1	SLU	179.20	-14.92	0.85	11.31	179.82	1.00	32294.70	333650.00	32294.70	>100
42	2440.48	1	SLU	103.85	-8.65	0.85	11.31	104.21	1.00	32294.70	333509.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-34686.80	3439.12	43677.10	50.27	28.27	43.33	1176.01
45	59.52	2	SLE R	-35653.80	3654.32	46410.20	50.27	28.27	46.10	1265.57
46	119.05	2	SLE R	-35905.90	3789.53	48127.40	50.27	28.27	47.85	1326.61
47	178.57	2	SLE R	-36159.20	3856.26	48974.90	50.27	28.27	48.71	1355.03
48	238.09	2	SLE R	-36413.60	3865.15	49087.80	50.27	28.27	48.82	1355.87
49	297.62	2	SLE R	-36669.20	3825.93	48589.70	50.27	28.27	48.29	1333.78
50	357.14	2	SLE R	-36925.90	3743.76	47546.10	50.27	28.27	47.20	1291.24
51	416.67	2	SLE R	-36169.90	3612.62	45880.60	50.27	28.27	45.52	1238.88
52	476.19	2	SLE R	-35415.90	3439.99	43688.30	50.27	28.27	43.30	1166.79
53	535.71	2	SLE R	-34663.80	3236.56	41104.60	50.27	28.27	40.67	1080.12
54	595.24	2	SLE R	-33913.60	3011.63	38247.90	50.27	28.27	37.76	983.36
55	654.76	2	SLE R	-33165.20	2773.21	35220.00	47.12	31.42	34.66	880.41
56	714.29	2	SLE R	-32418.50	2528.13	32107.50	47.12	31.42	31.47	774.64
57	773.81	2	SLE R	-31673.60	2282.10	28982.90	43.98	34.56	28.25	668.88
58	833.33	2	SLE R	-30930.40	2039.84	25906.10	43.98	34.56	25.08	565.55
59	892.86	2	SLE R	-30188.90	1805.13	22925.30	43.98	34.56	22.00	466.68
60	952.38	2	SLE R	-29449.00	1580.97	20078.50	43.98	34.56	19.04	374.01
61	1011.90	2	SLE R	-28710.60	1369.63	17394.40	43.98	34.56	16.25	289.09
62	1071.43	2	SLE R	-27973.80	1172.74	14893.90	40.84	37.70	13.66	213.39
63	1130.95	2	SLE R	-27238.50	991.40	12590.90	37.70	40.84	11.29	154.19
64	1190.48	2	SLE R	-26504.70	826.24	10493.30	37.70	40.84	9.19	126.71
65	1250.00	2	SLE R	-25772.20	677.48	8604.10	31.42	47.12	7.41	103.15
66	1309.52	2	SLE R	-25041.20	545.04	6922.10	25.13	53.41	5.98	84.03
67	1369.05	2	SLE R	-24311.50	428.55	5442.63	18.85	59.69	4.89	69.28
68	1428.57	2	SLE R	-23583.10	327.42	4158.29	6.28	72.26	4.07	58.17
69	1488.10	2	SLE R	-22856.00	240.91	3059.52	0.00	78.54	3.44	49.47
70	1547.62	2	SLE R	-22130.10	168.12	2135.10	0.00	78.54	2.90	42.06
71	1607.14	2	SLE R	-21405.40	108.08	1372.59	0.00	78.54	2.45	35.79
72	1666.67	2	SLE R	-20681.80	59.74	758.72	0.00	78.54	2.07	30.57
73	1726.19	2	SLE R	-19959.30	22.02	279.66	0.00	78.54	1.77	26.31
74	1785.71	2	SLE R	-19237.90	-6.20	-78.70	0.00	78.54	1.60	24.01
75	1845.24	2	SLE R	-18517.60	-26.03	-330.59	0.00	78.54	1.68	24.90
76	1904.76	2	SLE R	-17798.20	-38.60	-490.22	0.00	78.54	1.70	25.14
77	1964.29	2	SLE R	-17079.80	-45.01	-571.63	0.00	78.54	1.68	24.84
78	2023.81	2	SLE R	-16362.30	-46.35	-588.70	0.00	78.54	1.63	24.08
79	2083.33	2	SLE R	-15645.70	-43.70	-555.04	0.00	78.54	1.56	22.97
80	2142.86	2	SLE R	-14929.90	-38.11	-484.05	0.00	78.54	1.46	21.60
81	2202.38	2	SLE R	-14215.00	-30.62	-388.90	0.00	78.54	1.36	20.06
82	2261.90	2	SLE R	-13500.80	-22.25	-282.56	0.00	78.54	1.24	18.44
83	2321.43	2	SLE R	-12787.30	-14.00	-177.83	0.00	78.54	1.13	16.84
84	2380.95	2	SLE R	-12074.50	-6.88	-87.42	0.00	78.54	1.03	15.34
85	2440.48	2	SLE R	-11362.30	-1.89	-23.95	0.00	78.54	0.94	14.02
86	2500.00	2	SLE R	-10650.80	0.00	0.00	0.00	78.54	0.87	12.99
87	0.00	4	SLE Q	-34686.80	3439.12	43677.10	50.27	28.27	43.33	1176.01
88	59.52	4	SLE Q	-35653.80	3654.32	46410.20	50.27	28.27	46.10	1265.57
89	119.05	4	SLE Q	-35905.90	3789.53	48127.40	50.27	28.27	47.85	1326.61
90	178.57	4	SLE Q	-36159.20	3856.26	48974.90	50.27	28.27	48.71	1355.03
91	238.09	4	SLE Q	-36413.60	3865.15	49087.80	50.27	28.27	48.82	1355.87
92	297.62	4	SLE Q	-36669.20	3825.93	48589.70	50.27	28.27	48.29	1333.78
93	357.14	4	SLE Q	-36925.90	3743.76	47546.10	50.27	28.27	47.20	1291.24
94	416.67	4	SLE Q	-36169.90	3612.62	45880.60	50.27	28.27	45.52	1238.88
95	476.19	4	SLE Q	-35415.90	3439.99	43688.30	50.27	28.27	43.30	1166.79
96	535.71	4	SLE Q	-34663.80	3236.56	41104.60	50.27	28.27	40.67	1080.12
97	595.24	4	SLE Q	-33913.60	3011.63	38247.90	50.27	28.27	37.76	983.36
98	654.76	4	SLE Q	-33165.20	2773.21	35220.00	47.12	31.42	34.66	880.41
99	714.29	4	SLE Q	-32418.50	2528.13	32107.50	47.12	31.42	31.47	774.64
100	773.81	4	SLE Q	-31673.60	2282.10	28982.90	43.98	34.56	28.25	668.88
101	833.33	4	SLE Q	-30930.40	2039.84	25906.10	43.98	34.56	25.08	565.55
102	892.86	4	SLE Q	-30188.90	1805.13	22925.30	43.98	34.56	22.00	466.68
103	952.38	4	SLE Q	-29449.00	1580.97	20078.50	43.98	34.56	19.04	374.01
104	1011.90	4	SLE Q	-28710.60	1369.63	17394.40	43.98	34.56	16.25	289.09
105	1071.43	4	SLE Q	-27973.80	1172.74	14893.90	40.84	37.70	13.66	213.39
106	1130.95	4	SLE Q	-27238.50	991.40	12590.90	37.70	40.84	11.29	154.19
107	1190.48	4	SLE Q	-26504.70	826.24	10493.30	37.70	40.84	9.19	126.71
108	1250.00	4	SLE Q	-25772.20	677.48	8604.10	31.42	47.12	7.41	103.15
109	1309.52	4	SLE Q	-25041.20	545.04	6922.10	25.13	53.41	5.98	84.03
110	1369.05	4	SLE Q	-24311.50	428.55	5442.63	18.85	59.69	4.89	69.28
111	1428.57	4	SLE Q	-23583.10	327.42	4158.29	6.28	72.26	4.07	58.17
112	1488.10	4	SLE Q	-22856.00	240.91	3059.52	0.00	78.54	3.44	49.47
113	1547.62	4	SLE Q	-22130.10	168.12	2135.10	0.00	78.54	2.90	42.06
114	1607.14	4	SLE Q	-21405.40	108.08	1372.59	0.00	78.54	2.45	35.79
115	1666.67	4	SLE Q	-20681.80	59.74	758.72	0.00	78.54	2.07	30.57
116	1726.19	4	SLE Q	-19959.30	22.02	279.66	0.00	78.54	1.77	26.31
117	1785.71	4	SLE Q	-19237.90	-6.20	-78.70	0.00	78.54	1.60	24.01

118	1845.24	4	SLE Q	-18517.60	-26.03	-330.59	0.00	78.54	1.68	24.90
119	1904.76	4	SLE Q	-17798.20	-38.60	-490.22	0.00	78.54	1.70	25.14
120	1964.29	4	SLE Q	-17079.80	-45.01	-571.63	0.00	78.54	1.68	24.84
121	2023.81	4	SLE Q	-16362.30	-46.35	-588.70	0.00	78.54	1.63	24.08
122	2083.33	4	SLE Q	-15645.70	-43.70	-555.04	0.00	78.54	1.56	22.97
123	2142.86	4	SLE Q	-14929.90	-38.11	-484.05	0.00	78.54	1.46	21.60
124	2202.38	4	SLE Q	-14215.00	-30.62	-388.90	0.00	78.54	1.36	20.06
125	2261.90	4	SLE Q	-13500.80	-22.25	-282.56	0.00	78.54	1.24	18.44
126	2321.43	4	SLE Q	-12787.30	-14.00	-177.83	0.00	78.54	1.13	16.84
127	2380.95	4	SLE Q	-12074.50	-6.88	-87.42	0.00	78.54	1.03	15.34
128	2440.48	4	SLE Q	-11362.30	-1.89	-23.95	0.00	78.54	0.94	14.02
129	2500.00	4	SLE Q	-10650.80	0.00	0.00	0.00	78.54	0.87	12.99

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-34686.80	43677.10	3439.12	46.00	136.36	0.50	20.00	194.12	25.13	1283.22	1176.01	0.34	0.11
88	59.52	4	SLE Q	-35653.80	46410.20	3654.32	46.00	136.36	0.50	20.00	194.40	25.13	1286.83	1265.57	0.37	0.12
89	119.05	4	SLE Q	-35905.90	48127.40	3789.53	46.00	136.36	0.50	20.00	194.65	25.13	1289.88	1326.61	0.39	0.13
90	178.57	4	SLE Q	-36159.20	48974.90	3856.26	46.00	136.36	0.50	20.00	194.73	25.13	1290.94	1355.03	0.39	0.13
91	238.09	4	SLE Q	-36413.60	49087.80	3865.15	46.00	136.36	0.50	20.00	194.69	25.13	1290.47	1355.87	0.39	0.13
92	297.62	4	SLE Q	-36669.20	48589.70	3825.93	46.00	136.36	0.50	20.00	194.55	25.13	1288.70	1333.78	0.39	0.13
93	357.14	4	SLE Q	-36925.90	47546.10	3743.76	46.00	136.36	0.50	20.00	194.31	25.13	1285.66	1291.24	0.38	0.12
94	416.67	4	SLE Q	-36169.90	45880.60	3612.62	46.00	136.36	0.50	20.00	194.18	25.13	1284.03	1238.88	0.36	0.12
95	476.19	4	SLE Q	-35415.90	43688.30	3439.99	46.00	136.36	0.50	20.00	193.93	25.13	1280.91	1166.79	0.34	0.11
96	535.71	4	SLE Q	-34663.80	41104.60	3236.56	46.00	136.36	0.50	20.00	193.56	25.13	1276.28	1080.12	0.31	0.10
97	595.24	4	SLE Q	-33913.60	38247.90	3011.63	46.00	136.36	0.50	20.00	193.06	25.13	1270.03	983.36	0.29	0.09
98	654.76	4	SLE Q	-33165.20	35220.00	2773.21	46.00	136.36	0.50	20.00	206.77	21.99	1261.94	880.41	0.26	0.09
99	714.29	4	SLE Q	-32418.50	32107.50	2528.13	46.00	136.36	0.50	20.00	205.83	21.99	1251.66	774.64	0.23	0.08
100	773.81	4	SLE Q	-31673.60	28982.90	2282.10	46.00	136.36	0.50	20.00	204.65	21.99	1238.68	668.88	0.19	0.07
101	833.33	4	SLE Q	-30930.40	25906.10	2039.84	46.00	136.36	0.50	20.00	203.16	21.99	1222.26	565.55	0.16	0.06
102	892.86	4	SLE Q	-30188.90	22925.30	1805.13	46.00	136.36	0.50	20.00	219.45	18.85	1201.15	466.68	0.14	0.05
103	952.38	4	SLE Q	-29449.00	20078.50	1580.97	46.00	136.36	0.50	20.00	216.51	18.85	1173.53	374.01	0.11	0.04
104	1011.90	4	SLE Q	-28710.60	17394.40	1369.63	46.00	136.36	0.50	20.00	212.60	18.85	1136.62	289.09	0.08	0.03
105	1071.43	4	SLE Q	-27973.80	14893.90	1172.74	46.00	136.36	0.50	20.00	207.24	18.85	1086.15	213.39	0.06	0.02
106	1130.95	4	SLE Q	-27238.50	12590.90	991.40	46.00	136.36	0.50	20.00	199.74	18.85	1015.38	148.38	0.04	0.01
107	1190.48	4	SLE Q	-26504.70	10493.30	826.24	46.00	136.36	0.50	20.00	188.82	18.85	912.49	95.48	0.03	0.01
108	1250.00	4	SLE Q	-25772.20	8604.10	677.48	46.00	136.36	0.50	20.00	211.74	12.57	752.37	55.63	0.02	0.01
109	1309.52	4	SLE Q	-25041.20	6922.10	545.04	46.00	136.36	0.50	20.00	170.93	12.57	495.93	28.28	0.01	0.00
110	1369.05	4	SLE Q	-24311.50	5442.63	428.55	46.00	136.36	0.50	20.00	168.60	6.28	240.65	11.02	0.00	0.00
130	0.00	3	SLE F	-34686.80	43677.10	3439.12	46.00	136.36	0.50	20.00	194.12	25.13	1283.22	1176.01	0.34	0.11
131	59.52	3	SLE F	-35653.80	46410.20	3654.32	46.00	136.36	0.50	20.00	194.40	25.13	1286.83	1265.57	0.37	0.12
132	119.05	3	SLE F	-35905.90	48127.40	3789.53	46.00	136.36	0.50	20.00	194.65	25.13	1289.88	1326.61	0.39	0.13
133	178.57	3	SLE F	-36159.20	48974.90	3856.26	46.00	136.36	0.50	20.00	194.73	25.13	1290.94	1355.03	0.39	0.13
134	238.09	3	SLE F	-36413.60	49087.80	3865.15	46.00	136.36	0.50	20.00	194.69	25.13	1290.47	1355.87	0.39	0.13
135	297.62	3	SLE F	-36669.20	48589.70	3825.93	46.00	136.36	0.50	20.00	194.55	25.13	1288.70	1333.78	0.39	0.13
136	357.14	3	SLE F	-36925.90	47546.10	3743.76	46.00	136.36	0.50	20.00	194.31	25.13	1285.66	1291.24	0.38	0.12
137	416.67	3	SLE F	-36169.90	45880.60	3612.62	46.00	136.36	0.50	20.00	194.18	25.13	1284.03	1238.88	0.36	0.12
138	476.19	3	SLE F	-35415.90	43688.30	3439.99	46.00	136.36	0.50	20.00	193.93	25.13	1280.91	1166.79	0.34	0.11
139	535.71	3	SLE F	-34663.80	41104.60	3236.56	46.00	136.36	0.50	20.00	193.56	25.13	1276.28	1080.12	0.31	0.10
140	595.24	3	SLE F	-33913.60	38247.90	3011.63	46.00	136.36	0.50	20.00	193.06	25.13	1270.03	983.36	0.29	0.09
141	654.76	3	SLE F	-33165.20	35220.00	2773.21	46.00	136.36	0.50	20.00	206.77	21.99	1261.94	880.41	0.26	0.09
142	714.29	3	SLE F	-32418.50	32107.50	2528.13	46.00	136.36	0.50	20.00	205.83	21.99	1251.66	774.64	0.23	0.08
143	773.81	3	SLE F	-31673.60	28982.90	2282.10	46.00	136.36	0.50	20.00	204.65	21.99	1238.68	668.88	0.19	0.07
144	833.33	3	SLE F	-30930.40	25906.10	2039.84	46.00	136.36	0.50	20.00	203.16	21.99	1222.26	565.55	0.16	0.06
145	892.86	3	SLE F	-30188.90	22925.30	1805.13	46.00	136.36	0.50	20.00	219.45	18.85	1201.15	466.68	0.14	0.05
146	952.38	3	SLE F	-29449.00	20078.50	1580.97	46.00	136.36	0.50	20.00	216.51	18.85	1173.53	374.01	0.11	0.04
147	1011.90	3	SLE F	-28710.60	17394.40	1369.63	46.00	136.36	0.50	20.00	212.60	18.85	1136.62	289.09	0.08	0.03
148	1071.43	3	SLE F	-27973.80	14893.90	1172.74	46.00	136.36	0.50	20.00	207.24	18.85	1086.15	213.39	0.06	0.02
149	1130.95	3	SLE F	-27238.50	12590.90	991.40	46.00	136.36	0.50	20.00	199.74	18.85	1015.38	148.38	0.04	0.01
150	1190.48	3	SLE F	-26504.70	10493.30	826.24	46.00	136.36	0.50	20.00	188.82	18.85	912.49	95.48	0.03	0.01
151	1250.00	3	SLE F	-25772.20	8604.10	677.48	46.00	136.36	0.50	20.00	211.74	12.57	752.37	55.63	0.02	0.01
152	1309.52	3	SLE F	-25041.20	6922.10	545.04	46.00	136.36	0.50	20.00	170.93	12.57	495.93	28.28	0.01	0.00
153	1369.05	3	SLE F	-24311.50	5442.63	428.55	46.00	136.36	0.50	20.00	168.60	6.28	240.65	11.02	0.00	0.00

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
48	C.Rare - Sc min (max compr.),C.Rare - Sf max (max traz.),C.Rare - Sf min (max compr.)
69	C.Rare - Sc max (min. compr.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf max (max traz.),C.Q.Per. - Sf min (max compr.),C.Q.Per. - Wk Max
112	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 16

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 16 (-29)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	81184.60	7266.56	-802.52	60509.70	-10373.50
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	81184.60	7266.56	-802.52	60509.70	-10373.50
2	2	SLE R	RVN	60136.70	5382.63	-594.46	44822.00	-7684.04
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	60136.70	5382.63	-594.46	44822.00	-7684.04
3	3	SLE F	RVN	60136.70	5382.63	-594.46	44822.00	-7684.04
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	60136.70	5382.63	-594.46	44822.00	-7684.04
4	4	SLE Q	RVN	60136.70	5382.63	-594.46	44822.00	-7684.04
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	60136.70	5382.63	-594.46	44822.00	-7684.04

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-81184.60	-7266.56	802.52	-60509.70	10373.50
2	2	SLE R	1	-60136.70	-5382.63	594.46	-44822.00	7684.04
3	3	SLE F	1	-60136.70	-5382.63	594.46	-44822.00	7684.04
4	4	SLE Q	1	-60136.70	-5382.63	594.46	-44822.00	7684.04

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-81184.60	60259.00	10330.50	-81184.60	177580.00	31570.30	2-3	170.00	2.950
2	59.52	1	SLU	-81828.40	63795.60	10936.80	-81828.40	177834.00	31616.90	2-3	170.00	2.791
3	119.05	1	SLU	-81435.60	65967.00	11309.00	-81435.60	177679.00	31588.50	2-3	170.00	2.696
4	178.57	1	SLU	-81045.30	66971.30	11481.20	-81045.30	177525.00	31560.20	2-3	170.00	2.654
5	238.09	1	SLU	-80657.60	66991.10	11484.60	-80657.60	177372.00	31532.20	2-3	170.00	2.651
6	297.62	1	SLU	-80272.40	66193.60	11347.90	-80272.40	177220.00	31504.30	2-3	170.00	2.680
7	357.14	1	SLU	-79889.70	64668.00	11086.30	-79889.70	177068.00	31476.60	2-3	170.00	2.741
8	416.67	1	SLU	-78041.90	62314.60	10682.90	-78041.90	176338.00	31342.80	2-3	170.00	2.833
9	476.19	1	SLU	-76198.30	59262.20	10159.60	-76198.30	175610.00	31209.40	2-3	170.00	2.966
10	535.71	1	SLU	-74358.70	55693.30	9547.76	-74358.70	174883.00	31076.30	2-3	170.00	3.143
11	595.24	1	SLU	-72523.10	51766.90	8874.62	-72523.10	174155.00	30942.80	2-3	170.00	3.368
12	654.76	1	SLU	-70691.40	47619.60	8163.63	-70691.40	173426.00	30809.00	2-3	170.00	3.646
13	714.29	1	SLU	-68863.60	43367.60	7434.70	-68863.60	172698.00	30675.40	2-3	170.00	3.986
14	773.81	1	SLU	-67039.40	39108.00	6704.47	-67039.40	171972.00	30542.10	2-3	170.00	4.402
15	833.33	1	SLU	-65218.80	34920.90	5986.65	-65218.80	171247.00	30409.10	2-3	170.00	4.909
16	892.86	1	SLU	-63401.70	30870.50	5292.26	-63401.70	170520.00	30275.70	2-3	170.00	5.529
17	952.38	1	SLU	-61588.00	27007.20	4629.96	-61588.00	169793.00	30141.90	2-3	170.00	6.293
18	1011.90	1	SLU	-59777.60	23369.10	4006.27	-59777.60	169068.00	30008.40	2-3	170.00	7.242
19	1071.43	1	SLU	-57970.40	19983.70	3425.90	-57970.40	168343.00	29875.10	2-3	170.00	8.433
20	1130.95	1	SLU	-56166.30	16869.00	2891.93	-56166.30	167619.00	29742.00	2-3	170.00	9.947
21	1190.48	1	SLU	-54365.20	14035.20	2406.12	-54365.20	166894.00	29608.40	2-3	170.00	11.903
22	1250.00	1	SLU	-52567.10	11485.60	1969.03	-52567.10	166168.00	29474.50	2-3	170.00	14.482
23	1309.52	1	SLU	-50771.70	9218.11	1580.30	-50771.70	165443.00	29340.80	2-3	170.00	17.966
24	1369.05	1	SLU	-48979.10	7225.94	1238.78	-48979.10	164719.00	29207.40	2-3	170.00	22.818
25	1428.57	1	SLU	-47189.10	5498.69	942.66	-47189.10	163996.00	29074.10	2-3	170.00	29.854
26	1488.10	1	SLU	-45401.70	4023.06	689.69	-45401.70	163272.00	28940.30	2-3	170.00	40.624
27	1547.62	1	SLU	-43616.70	2783.59	477.20	-43616.70	162546.00	28806.10	2-3	170.00	58.452
28	1607.14	1	SLU	-41834.00	1763.21	302.27	-2571250.00	161822.00	28672.10	2-3	170.00	61.463
29	1666.67	1	SLU	-40053.60	943.73	161.79	-2571250.00	161098.00	28538.30	2-3	170.00	64.195

30	1726.19	1	SLU	-38275.30	306.30	52.51	-2571250.00	160375.00	28404.60	2-3	170.00	67.178
31	1785.71	1	SLU	-36499.00	-168.34	-28.86	-2571250.00	-159940.00	-27992.70	2-3	350.00	70.447
32	1845.24	1	SLU	-34724.80	-499.55	-85.64	-2571250.00	-159206.00	-27928.40	2-3	350.00	74.046
33	1904.76	1	SLU	-32952.40	-706.60	-121.14	-2571250.00	-158471.00	-27866.80	2-3	350.00	78.029
34	1964.29	1	SLU	-31181.70	-808.60	-138.62	-2571250.00	-157735.00	-27806.20	2-3	350.00	82.460
35	2023.81	1	SLU	-29412.70	-824.34	-141.32	-2571250.00	-156999.00	-27745.10	2-3	350.00	87.419
36	2083.33	1	SLU	-27645.30	-772.28	-132.40	-2571250.00	-156264.00	-27683.60	2-3	350.00	93.008
37	2142.86	1	SLU	-25879.40	-670.58	-114.96	-2571250.00	-155530.00	-27621.60	2-3	350.00	99.355
38	2202.38	1	SLU	-24114.90	-537.04	-92.07	-2571250.00	-154794.00	-27560.50	2-3	350.00	>100
39	2261.90	1	SLU	-22351.70	-389.24	-66.73	-2571250.00	-154052.00	-27458.60	2-3	350.00	>100
40	2321.43	1	SLU	-20589.60	-244.51	-41.92	-2571250.00	-153306.00	-27321.00	2-3	350.00	>100
41	2380.95	1	SLU	-18828.70	-120.01	-20.57	-2571250.00	-152561.00	-27183.50	2-3	350.00	>100
42	2440.48	1	SLU	-17068.80	-32.84	-5.63	-2571250.00	-151815.00	-27046.20	2-3	350.00	>100
43	2500.00	1	SLU	-15309.80	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7266.56	-802.52	0.85	11.31	7310.74	1.00	32294.70	343297.00	32294.70	4.417
2	59.52	1	SLU	4777.25	-527.60	0.85	11.31	4806.29	1.00	32294.70	343389.00	32294.70	6.719
3	119.05	1	SLU	2636.30	-291.15	0.85	11.31	2652.33	1.00	32294.70	343333.00	32294.70	12.176
4	178.57	1	SLU	818.06	-90.35	0.85	11.31	823.03	1.00	32294.70	343277.00	32294.70	39.239
5	238.09	1	SLU	-703.74	77.72	0.85	11.31	708.02	1.00	32294.70	343221.00	32294.70	45.613
6	297.62	1	SLU	-1955.57	215.97	0.85	11.31	1967.46	1.00	32294.70	343166.00	32294.70	16.414
7	357.14	1	SLU	-3281.44	362.40	0.85	11.31	3301.39	1.00	32294.70	343111.00	32294.70	9.782
8	416.67	1	SLU	-4634.22	511.81	0.85	11.31	4662.40	1.00	32294.70	342847.00	32294.70	6.927
9	476.19	1	SLU	-5657.06	624.77	0.85	11.31	5691.45	1.00	32294.70	342583.00	32294.70	5.674
10	535.71	1	SLU	-6391.02	705.83	0.85	11.31	6429.88	1.00	32294.70	342319.00	32294.70	5.023
11	595.24	1	SLU	-6874.95	759.27	0.85	11.31	6916.75	1.00	32294.70	342056.00	32294.70	4.669
12	654.76	1	SLU	-7145.11	789.11	0.85	11.31	7188.55	1.00	32294.70	341794.00	32294.70	4.493
13	714.29	1	SLU	-7235.06	799.04	0.85	11.31	7279.05	1.00	32294.70	341532.00	32294.70	4.437
14	773.81	1	SLU	-7175.49	792.46	0.85	11.31	7219.11	1.00	32294.70	341271.00	32294.70	4.473
15	833.33	1	SLU	-6994.21	772.44	0.85	11.31	7036.74	1.00	32294.70	341010.00	32294.70	4.589
16	892.86	1	SLU	-6716.20	741.74	0.85	11.31	6757.03	1.00	32294.70	340750.00	32294.70	4.779
17	952.38	1	SLU	-6363.61	702.80	0.85	11.31	6402.30	1.00	32294.70	340490.00	32294.70	5.044
18	1011.90	1	SLU	-5955.94	657.78	0.85	11.31	5992.15	1.00	32294.70	340231.00	32294.70	5.389
19	1071.43	1	SLU	-5510.16	608.54	0.85	11.31	5543.66	1.00	32294.70	339972.00	32294.70	5.826
20	1130.95	1	SLU	-5040.86	556.71	0.85	11.31	5071.51	1.00	32294.70	339713.00	32294.70	6.368
21	1190.48	1	SLU	-4560.43	503.65	0.85	11.31	4588.16	1.00	32294.70	339455.00	32294.70	7.039
22	1250.00	1	SLU	-4079.26	450.51	0.85	11.31	4104.06	1.00	32294.70	339198.00	32294.70	7.869
23	1309.52	1	SLU	-3605.92	398.24	0.85	11.31	3627.85	1.00	32294.70	338941.00	32294.70	8.902
24	1369.05	1	SLU	-3147.36	347.60	0.85	11.31	3166.49	1.00	32294.70	338684.00	32294.70	10.199
25	1428.57	1	SLU	-2709.08	299.19	0.85	11.31	2725.55	1.00	32294.70	338427.00	32294.70	11.849
26	1488.10	1	SLU	-2295.35	253.50	0.85	11.31	2309.30	1.00	32294.70	338171.00	32294.70	13.985
27	1547.62	1	SLU	-1909.33	210.87	0.85	11.31	1920.94	1.00	32294.70	337916.00	32294.70	16.812
28	1607.14	1	SLU	-1553.30	171.55	0.85	11.31	1562.75	1.00	32294.70	337660.00	32294.70	20.665
29	1666.67	1	SLU	-1228.76	135.70	0.85	11.31	1236.23	1.00	32294.70	337405.00	32294.70	26.124
30	1726.19	1	SLU	-936.58	103.44	0.85	11.31	942.28	1.00	32294.70	337151.00	32294.70	34.273
31	1785.71	1	SLU	-677.17	74.79	0.85	11.31	681.29	1.00	32294.70	336896.00	32294.70	47.403
32	1845.24	1	SLU	-450.54	49.76	0.85	11.31	453.28	1.00	32294.70	336642.00	32294.70	71.246
33	1904.76	1	SLU	-256.45	28.32	0.85	11.31	258.01	1.00	32294.70	336388.00	32294.70	>100
34	1964.29	1	SLU	-94.47	10.43	0.85	11.31	95.04	1.00	32294.70	336135.00	32294.70	>100
35	2023.81	1	SLU	35.94	-3.97	0.85	11.31	36.15	1.00	32294.70	335881.00	32294.70	>100
36	2083.33	1	SLU	135.33	-14.95	0.85	11.31	136.15	1.00	32294.70	335628.00	32294.70	>100
37	2142.86	1	SLU	204.26	-22.56	0.85	11.31	205.51	1.00	32294.70	335375.00	32294.70	>100
38	2202.38	1	SLU	243.24	-26.86	0.85	11.31	244.72	1.00	32294.70	335122.00	32294.70	>100
39	2261.90	1	SLU	252.68	-27.91	0.85	11.31	254.22	1.00	32294.70	334870.00	32294.70	>100
40	2321.43	1	SLU	232.90	-25.72	0.85	11.31	234.31	1.00	32294.70	334617.00	32294.70	>100
41	2380.95	1	SLU	184.12	-20.33	0.85	11.31	185.24	1.00	32294.70	334365.00	32294.70	>100
42	2440.48	1	SLU	106.47	-11.76	0.85	11.31	107.11	1.00	32294.70	334113.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_F <daN/cmq>
44	0.00	2	SLE R	-60136.70	7652.20	44636.30	47.12	31.42	42.87	915.33
45	59.52	2	SLE R	-60926.80	8101.31	47256.00	47.12	31.42	45.57	1001.60
46	119.05	2	SLE R	-60826.00	8377.05	48864.50	47.12	31.42	47.27	1061.89
47	178.57	2	SLE R	-60727.00	8504.58	49608.30	47.12	31.42	48.06	1090.50
48	238.09	2	SLE R	-60630.00	8507.10	49623.00	47.12	31.42	48.08	1092.23
49	297.62	2	SLE R	-60534.80	8405.83	49032.30	47.12	31.42	47.47	1071.60
50	357.14	2	SLE R	-60441.60	8212.09	47902.20	47.12	31.42	46.29	1031.14
51	416.67	2	SLE R	-59088.00	7913.24	46159.00	47.12	31.42	44.54	983.44
52	476.19	2	SLE R	-57737.60	7525.62	43897.90	47.12	31.42	42.26	916.82
53	535.71	2	SLE R	-56390.30	7072.41	41254.30	47.12	31.42	39.57	836.46
54	595.24	2	SLE R	-55046.00	6573.80	38345.80	43.98	34.56	36.59	746.97
55	654.76	2	SLE R	-53704.70	6047.14	35273.80	43.98	34.56	33.44	652.38
56	714.29	2	SLE R	-52366.20	5507.18	32124.10	40.84	37.70	30.20	556.27

57	773.81	2	SLE R	-51030.60	4966.27	28968.90	40.84	37.70	26.95	461.75
58	833.33	2	SLE R	-49697.70	4434.55	25867.30	40.84	37.70	23.76	371.61
59	892.86	2	SLE R	-48367.40	3920.19	22867.00	40.84	37.70	20.69	288.31
60	952.38	2	SLE R	-47039.80	3429.60	20005.30	37.70	40.84	17.81	244.79
61	1011.90	2	SLE R	-45714.70	2967.61	17310.40	34.56	43.98	15.17	209.91
62	1071.43	2	SLE R	-44392.00	2537.70	14802.70	34.56	43.98	12.82	178.72
63	1130.95	2	SLE R	-43071.70	2142.17	12495.60	28.27	50.27	10.81	151.78
64	1190.48	2	SLE R	-41753.80	1782.31	10396.40	21.99	56.55	9.15	129.32
65	1250.00	2	SLE R	-40438.00	1458.54	8507.86	15.71	62.83	7.81	111.04
66	1309.52	2	SLE R	-39124.50	1170.59	6828.23	3.14	75.40	6.74	96.29
67	1369.05	2	SLE R	-37813.00	917.61	5352.55	0.00	78.54	5.86	84.11
68	1428.57	2	SLE R	-36503.60	698.27	4073.10	0.00	78.54	5.08	73.43
69	1488.10	2	SLE R	-35196.10	510.88	2980.05	0.00	78.54	4.41	64.07
70	1547.62	2	SLE R	-33890.50	353.48	2061.92	0.00	78.54	3.83	55.96
71	1607.14	2	SLE R	-32586.70	223.91	1306.08	0.00	78.54	3.33	49.01
72	1666.67	2	SLE R	-31284.70	119.84	699.06	0.00	78.54	2.91	43.11
73	1726.19	2	SLE R	-29984.30	38.90	226.89	0.00	78.54	2.56	38.17
74	1785.71	2	SLE R	-28685.60	-21.38	-124.70	0.00	78.54	2.40	35.87
75	1845.24	2	SLE R	-27388.40	-63.44	-370.03	0.00	78.54	2.42	36.04
76	1904.76	2	SLE R	-26092.60	-89.73	-523.41	0.00	78.54	2.39	35.55
77	1964.29	2	SLE R	-24798.30	-102.68	-598.96	0.00	78.54	2.33	34.51
78	2023.81	2	SLE R	-23505.30	-104.68	-610.62	0.00	78.54	2.23	33.02
79	2083.33	2	SLE R	-22213.60	-98.07	-572.06	0.00	78.54	2.10	31.17
80	2142.86	2	SLE R	-20923.00	-85.16	-496.72	0.00	78.54	1.96	29.06
81	2202.38	2	SLE R	-19633.60	-68.20	-397.81	0.00	78.54	1.80	26.78
82	2261.90	2	SLE R	-18345.20	-49.43	-288.33	0.00	78.54	1.64	24.43
83	2321.43	2	SLE R	-17057.80	-31.05	-181.12	0.00	78.54	1.48	22.09
84	2380.95	2	SLE R	-15771.30	-15.24	-88.90	0.00	78.54	1.33	19.86
85	2440.48	2	SLE R	-14485.70	-4.17	-24.32	0.00	78.54	1.19	17.84
86	2500.00	2	SLE R	-13200.80	0.00	0.00	0.00	78.54	1.07	16.09
87	0.00	4	SLE Q	-60136.70	7652.20	44636.30	47.12	31.42	42.87	915.33
88	59.52	4	SLE Q	-60926.80	8101.31	47256.00	47.12	31.42	45.57	1001.60
89	119.05	4	SLE Q	-60826.00	8377.05	48864.50	47.12	31.42	47.27	1061.89
90	178.57	4	SLE Q	-60727.00	8504.58	49608.30	47.12	31.42	48.06	1090.50
91	238.09	4	SLE Q	-60630.00	8507.10	49623.00	47.12	31.42	48.08	1092.23
92	297.62	4	SLE Q	-60534.80	8405.83	49032.30	47.12	31.42	47.47	1071.60
93	357.14	4	SLE Q	-60441.60	8212.09	47902.20	47.12	31.42	46.29	1031.14
94	416.67	4	SLE Q	-59088.00	7913.24	46159.00	47.12	31.42	44.54	983.44
95	476.19	4	SLE Q	-57737.60	7525.62	43897.90	47.12	31.42	42.26	916.82
96	535.71	4	SLE Q	-56390.30	7072.41	41254.30	47.12	31.42	39.57	836.46
97	595.24	4	SLE Q	-55046.00	6573.80	38345.80	43.98	34.56	36.59	746.97
98	654.76	4	SLE Q	-53704.70	6047.14	35273.80	43.98	34.56	33.44	652.38
99	714.29	4	SLE Q	-52366.20	5507.18	32124.10	40.84	37.70	30.20	556.27
100	773.81	4	SLE Q	-51030.60	4966.27	28968.90	40.84	37.70	26.95	461.75
101	833.33	4	SLE Q	-49697.70	4434.55	25867.30	40.84	37.70	23.76	371.61
102	892.86	4	SLE Q	-48367.40	3920.19	22867.00	40.84	37.70	20.69	288.31
103	952.38	4	SLE Q	-47039.80	3429.60	20005.30	37.70	40.84	17.81	244.79
104	1011.90	4	SLE Q	-45714.70	2967.61	17310.40	34.56	43.98	15.17	209.91
105	1071.43	4	SLE Q	-44392.00	2537.70	14802.70	34.56	43.98	12.82	178.72
106	1130.95	4	SLE Q	-43071.70	2142.17	12495.60	28.27	50.27	10.81	151.78
107	1190.48	4	SLE Q	-41753.80	1782.31	10396.40	21.99	56.55	9.15	129.32
108	1250.00	4	SLE Q	-40438.00	1458.54	8507.86	15.71	62.83	7.81	111.04
109	1309.52	4	SLE Q	-39124.50	1170.59	6828.23	3.14	75.40	6.74	96.29
110	1369.05	4	SLE Q	-37813.00	917.61	5352.55	0.00	78.54	5.86	84.11
111	1428.57	4	SLE Q	-36503.60	698.27	4073.10	0.00	78.54	5.08	73.43
112	1488.10	4	SLE Q	-35196.10	510.88	2980.05	0.00	78.54	4.41	64.07
113	1547.62	4	SLE Q	-33890.50	353.48	2061.92	0.00	78.54	3.83	55.96
114	1607.14	4	SLE Q	-32586.70	223.91	1306.08	0.00	78.54	3.33	49.01
115	1666.67	4	SLE Q	-31284.70	119.84	699.06	0.00	78.54	2.91	43.11
116	1726.19	4	SLE Q	-29984.30	38.90	226.89	0.00	78.54	2.56	38.17
117	1785.71	4	SLE Q	-28685.60	-21.38	-124.70	0.00	78.54	2.40	35.87
118	1845.24	4	SLE Q	-27388.40	-63.44	-370.03	0.00	78.54	2.42	36.04
119	1904.76	4	SLE Q	-26092.60	-89.73	-523.41	0.00	78.54	2.39	35.55
120	1964.29	4	SLE Q	-24798.30	-102.68	-598.96	0.00	78.54	2.33	34.51
121	2023.81	4	SLE Q	-23505.30	-104.68	-610.62	0.00	78.54	2.23	33.02
122	2083.33	4	SLE Q	-22213.60	-98.07	-572.06	0.00	78.54	2.10	31.17
123	2142.86	4	SLE Q	-20923.00	-85.16	-496.72	0.00	78.54	1.96	29.06
124	2202.38	4	SLE Q	-19633.60	-68.20	-397.81	0.00	78.54	1.80	26.78
125	2261.90	4	SLE Q	-18345.20	-49.43	-288.33	0.00	78.54	1.64	24.43
126	2321.43	4	SLE Q	-17057.80	-31.05	-181.12	0.00	78.54	1.48	22.09
127	2380.95	4	SLE Q	-15771.30	-15.24	-88.90	0.00	78.54	1.33	19.86
128	2440.48	4	SLE Q	-14485.70	-4.17	-24.32	0.00	78.54	1.19	17.84
129	2500.00	4	SLE Q	-13200.80	0.00	0.00	0.00	78.54	1.07	16.09

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>

87	0.00	4	SLE Q	-60136.70	44636.30	7652.20	46.00	136.36	0.50	20.00	202.09	21.99	1210.52	915.33	0.27	0.09
88	59.52	4	SLE Q	-60926.80	47256.00	8101.31	46.00	136.36	0.50	20.00	203.00	21.99	1220.54	1001.60	0.29	0.10
89	119.05	4	SLE Q	-60826.00	48864.50	8377.05	46.00	136.36	0.50	20.00	203.69	21.99	1228.04	1061.89	0.31	0.11
90	178.57	4	SLE Q	-60727.00	49608.30	8504.58	46.00	136.36	0.50	20.00	204.00	21.99	1231.46	1090.50	0.32	0.11
91	238.09	4	SLE Q	-60630.00	49623.00	8507.10	46.00	136.36	0.50	20.00	204.03	21.99	1231.84	1092.23	0.32	0.11
92	297.62	4	SLE Q	-60534.80	49032.30	8405.83	46.00	136.36	0.50	20.00	203.84	21.99	1229.73	1071.60	0.31	0.11
93	357.14	4	SLE Q	-60441.60	47902.20	8212.09	46.00	136.36	0.50	20.00	203.43	21.99	1225.20	1031.14	0.30	0.10
94	416.67	4	SLE Q	-59088.00	46159.00	7913.24	46.00	136.36	0.50	20.00	203.15	21.99	1222.11	983.44	0.29	0.10
95	476.19	4	SLE Q	-57737.60	43897.90	7525.62	46.00	136.36	0.50	20.00	202.60	21.99	1216.09	916.82	0.27	0.09
96	535.71	4	SLE Q	-56390.30	41254.30	7072.41	46.00	136.36	0.50	20.00	201.78	21.99	1207.06	836.46	0.24	0.08
97	595.24	4	SLE Q	-55046.00	38345.80	6573.80	46.00	136.36	0.50	20.00	200.65	21.99	1194.69	746.97	0.22	0.07
98	654.76	4	SLE Q	-53704.70	35273.80	6047.14	46.00	136.36	0.50	20.00	199.17	21.99	1178.37	652.38	0.19	0.06
99	714.29	4	SLE Q	-52366.20	32124.10	5507.18	46.00	136.36	0.50	20.00	197.24	21.99	1157.20	556.27	0.16	0.05
100	773.81	4	SLE Q	-51030.60	28968.90	4966.27	46.00	136.36	0.50	20.00	194.75	21.99	1129.81	461.75	0.13	0.04
101	833.33	4	SLE Q	-49697.70	25867.30	4434.55	46.00	136.36	0.50	20.00	191.52	21.99	1094.23	371.61	0.11	0.04
102	892.86	4	SLE Q	-48367.40	22867.00	3920.19	46.00	136.36	0.50	20.00	203.16	18.85	1047.69	288.31	0.08	0.03
103	952.38	4	SLE Q	-47039.80	20005.30	3429.60	46.00	136.36	0.50	20.00	217.59	15.71	986.38	214.09	0.06	0.02
104	1011.90	4	SLE Q	-45714.70	17310.40	2967.61	46.00	136.36	0.50	20.00	206.76	15.71	901.30	150.84	0.04	0.02
105	1071.43	4	SLE Q	-44392.00	14802.70	2537.70	46.00	136.36	0.50	20.00	191.28	15.71	779.77	99.79	0.03	0.01
106	1130.95	4	SLE Q	-43071.70	12495.60	2142.17	46.00	136.36	0.50	20.00	186.98	12.57	596.76	60.98	0.02	0.01
107	1190.48	4	SLE Q	-41753.80	10396.40	1782.31	46.00	136.36	0.50	20.00	176.11	9.42	396.38	33.18	0.01	0.00
108	1250.00	4	SLE Q	-40438.00	8507.86	1458.54	46.00	136.36	0.50	20.00	221.17	3.14	202.90	14.10	0.00	0.00
130	0.00	3	SLE F	-60136.70	44636.30	7652.20	46.00	136.36	0.50	20.00	202.09	21.99	1210.52	915.33	0.27	0.09
131	59.52	3	SLE F	-60926.80	47256.00	8101.31	46.00	136.36	0.50	20.00	203.00	21.99	1220.54	1001.60	0.29	0.10
132	119.05	3	SLE F	-60826.00	48864.50	8377.05	46.00	136.36	0.50	20.00	203.69	21.99	1228.04	1061.89	0.31	0.11
133	178.57	3	SLE F	-60727.00	49608.30	8504.58	46.00	136.36	0.50	20.00	204.00	21.99	1231.46	1090.50	0.32	0.11
134	238.09	3	SLE F	-60630.00	49623.00	8507.10	46.00	136.36	0.50	20.00	204.03	21.99	1231.84	1092.23	0.32	0.11
135	297.62	3	SLE F	-60534.80	49032.30	8405.83	46.00	136.36	0.50	20.00	203.84	21.99	1229.73	1071.60	0.31	0.11
136	357.14	3	SLE F	-60441.60	47902.20	8212.09	46.00	136.36	0.50	20.00	203.43	21.99	1225.20	1031.14	0.30	0.10
137	416.67	3	SLE F	-59088.00	46159.00	7913.24	46.00	136.36	0.50	20.00	203.15	21.99	1222.11	983.44	0.29	0.10
138	476.19	3	SLE F	-57737.60	43897.90	7525.62	46.00	136.36	0.50	20.00	202.60	21.99	1216.09	916.82	0.27	0.09
139	535.71	3	SLE F	-56390.30	41254.30	7072.41	46.00	136.36	0.50	20.00	201.78	21.99	1207.06	836.46	0.24	0.08
140	595.24	3	SLE F	-55046.00	38345.80	6573.80	46.00	136.36	0.50	20.00	200.65	21.99	1194.69	746.97	0.22	0.07
141	654.76	3	SLE F	-53704.70	35273.80	6047.14	46.00	136.36	0.50	20.00	199.17	21.99	1178.37	652.38	0.19	0.06
142	714.29	3	SLE F	-52366.20	32124.10	5507.18	46.00	136.36	0.50	20.00	197.24	21.99	1157.20	556.27	0.16	0.05
143	773.81	3	SLE F	-51030.60	28968.90	4966.27	46.00	136.36	0.50	20.00	194.75	21.99	1129.81	461.75	0.13	0.04
144	833.33	3	SLE F	-49697.70	25867.30	4434.55	46.00	136.36	0.50	20.00	191.52	21.99	1094.23	371.61	0.11	0.04
145	892.86	3	SLE F	-48367.40	22867.00	3920.19	46.00	136.36	0.50	20.00	203.16	18.85	1047.69	288.31	0.08	0.03
146	952.38	3	SLE F	-47039.80	20005.30	3429.60	46.00	136.36	0.50	20.00	217.59	15.71	986.38	214.09	0.06	0.02
147	1011.90	3	SLE F	-45714.70	17310.40	2967.61	46.00	136.36	0.50	20.00	206.76	15.71	901.30	150.84	0.04	0.02
148	1071.43	3	SLE F	-44392.00	14802.70	2537.70	46.00	136.36	0.50	20.00	191.28	15.71	779.77	99.79	0.03	0.01
149	1130.95	3	SLE F	-43071.70	12495.60	2142.17	46.00	136.36	0.50	20.00	186.98	12.57	596.76	60.98	0.02	0.01
150	1190.48	3	SLE F	-41753.80	10396.40	1782.31	46.00	136.36	0.50	20.00	176.11	9.42	396.38	33.18	0.01	0.00
151	1250.00	3	SLE F	-40438.00	8507.86	1458.54	46.00	136.36	0.50	20.00	221.17	3.14	202.90	14.10	0.00	0.00

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
48	C.Rare - Sc min (max compr.),C.Rare - Sf max (max traz.),C.Rare - Sf min (max compr.)
67	C.Rare - Sc max (min. compr.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf max (max traz.),C.Q.Per. - Sf min (max compr.),C.Q.Per. - Wk Max
110	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 17

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 17 (-44)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	122467.00	7018.75	-918.56	59119.70	-17875.50
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	122467.00	7018.75	-918.56	59119.70	-17875.50

2	2	SLE R	RVN	90716.20	5199.08	-680.41	43792.40	-13241.10
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	90716.20	5199.08	-680.41	43792.40	-13241.10
3	3	SLE F	RVN	90716.20	5199.08	-680.41	43792.40	-13241.10
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	90716.20	5199.08	-680.41	43792.40	-13241.10
4	4	SLE Q	RVN	90716.20	5199.08	-680.41	43792.40	-13241.10
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	90716.20	5199.08	-680.41	43792.40	-13241.10

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-122467.00	-7018.75	918.56	-59119.70	17875.50
2	2	SLE R	1	-90716.20	-5199.08	680.41	-43792.40	13241.10
3	3	SLE F	1	-90716.20	-5199.08	680.41	-43792.40	13241.10
4	4	SLE Q	1	-90716.20	-5199.08	680.41	-43792.40	13241.10

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-122467.00	58878.80	17802.70	-122467.00	187601.00	57009.40	2-3	163.12	3.188
2	59.52	1	SLU	-122824.00	62188.80	18803.50	-122824.00	187729.00	57051.80	2-3	163.12	3.020
3	119.05	1	SLU	-121858.00	64187.50	19407.80	-121858.00	187382.00	56936.60	2-3	163.12	2.920
4	178.57	1	SLU	-120897.00	65066.20	19673.50	-120897.00	187034.00	56821.10	2-3	163.12	2.876
5	238.09	1	SLU	-119939.00	65001.00	19653.80	-119939.00	186688.00	56706.10	2-3	163.12	2.873
6	297.62	1	SLU	-118985.00	64153.10	19397.40	-118985.00	186344.00	56591.50	2-3	163.12	2.906
7	357.14	1	SLU	-118035.00	62609.10	18930.60	-118035.00	186000.00	56477.50	2-3	163.12	2.972
8	416.67	1	SLU	-115217.00	60275.00	18224.80	-115217.00	184981.00	56139.30	2-3	163.12	3.070
9	476.19	1	SLU	-112406.00	57275.30	17317.80	-112406.00	183964.00	55801.60	2-3	163.12	3.213
10	535.71	1	SLU	-109601.00	53785.40	16262.60	-109601.00	182943.00	55461.40	2-3	163.12	3.402
11	595.24	1	SLU	-106802.00	49958.10	15105.40	-106802.00	181914.00	55134.40	2-3	163.12	3.642
12	654.76	1	SLU	-104009.00	45924.50	13885.80	-104009.00	180886.00	54810.00	2-3	163.12	3.939
13	714.29	1	SLU	-101221.00	41796.20	12637.50	-101221.00	179855.00	54484.30	2-3	163.12	4.304
14	773.81	1	SLU	-98438.30	37666.10	11388.80	-98438.30	178824.00	54158.40	2-3	163.12	4.748
15	833.33	1	SLU	-95661.10	33610.80	10162.60	-95661.10	177794.00	53833.00	2-3	163.12	5.290
16	892.86	1	SLU	-92889.10	29691.70	8977.63	-92889.10	176765.00	53507.70	2-3	163.12	5.954
17	952.38	1	SLU	-90122.10	25956.90	7848.37	-90122.10	175733.00	53180.50	2-3	163.12	6.771
18	1011.90	1	SLU	-87359.90	22442.60	6785.79	-87359.90	174703.00	52854.10	2-3	163.12	7.785
19	1071.43	1	SLU	-84602.40	19174.80	5797.73	-84602.40	173673.00	52527.80	2-3	163.12	9.058
20	1130.95	1	SLU	-81849.40	16170.50	4889.33	-81849.40	172641.00	52200.40	2-3	163.12	10.676
21	1190.48	1	SLU	-79100.80	13438.90	4063.41	-79100.80	171609.00	51872.40	2-3	163.12	12.769
22	1250.00	1	SLU	-76356.40	10983.10	3320.86	-76356.40	170578.00	51544.90	2-3	163.12	15.530
23	1309.52	1	SLU	-73616.20	8800.52	2660.94	-73616.20	169548.00	51217.80	2-3	163.12	19.264
24	1369.05	1	SLU	-70879.90	6884.44	2081.59	-70879.90	168515.00	50888.50	2-3	163.12	24.475
25	1428.57	1	SLU	-68147.40	5224.54	1579.70	-68147.40	167483.00	50559.60	2-3	163.12	32.053
26	1488.10	1	SLU	-65418.50	3807.77	1151.32	-2571250.00	166451.00	50231.00	2-3	163.12	39.305
27	1547.62	1	SLU	-62693.20	2619.02	791.89	-2571250.00	165418.00	49901.80	2-3	163.12	41.013
28	1607.14	1	SLU	-59971.20	1641.67	496.38	-2571250.00	164384.00	49571.50	2-3	163.12	42.875
29	1666.67	1	SLU	-57252.50	858.04	259.44	-2571250.00	163351.00	49241.40	2-3	163.12	44.911
30	1726.19	1	SLU	-54536.80	249.81	75.53	-2571250.00	162318.00	48911.80	2-3	163.12	47.147
31	1785.71	1	SLU	-51824.00	-201.66	-60.97	-2571250.00	-161603.00	-47507.70	2-3	343.75	49.615
32	1845.24	1	SLU	-49114.10	-515.12	-155.75	-2571250.00	-160539.00	-47177.20	2-3	343.75	52.353
33	1904.76	1	SLU	-46406.70	-709.25	-214.45	-2571250.00	-159476.00	-46847.20	2-3	343.75	55.407
34	1964.29	1	SLU	-43701.90	-802.49	-242.64	-2571250.00	-158409.00	-46514.80	2-3	343.75	58.836
35	2023.81	1	SLU	-40999.30	-813.01	-245.82	-2571250.00	-157342.00	-46181.80	2-3	343.75	62.714
36	2083.33	1	SLU	-38299.00	-758.65	-229.39	-2571250.00	-156274.00	-45843.90	2-3	343.75	67.136
37	2142.86	1	SLU	-35600.80	-656.93	-198.63	-2571250.00	-155203.00	-45493.10	2-3	343.75	72.225
38	2202.38	1	SLU	-32904.40	-525.05	-158.75	-2571250.00	-154129.00	-45139.80	2-3	343.75	78.143
39	2261.90	1	SLU	-30209.80	-379.96	-114.89	-2571250.00	-152571.00	-46429.60	2-3	343.12	85.113
40	2321.43	1	SLU	-27516.90	-238.38	-72.08	-2571250.00	-151498.00	-46073.00	2-3	343.12	93.443
41	2380.95	1	SLU	-24825.40	-116.89	-35.34	-2571250.00	-150422.00	-45713.20	2-3	343.12	>100
42	2440.48	1	SLU	-22135.20	-31.96	-9.66	-2571250.00	-149346.00	-45353.70	2-3	343.12	>100
43	2500.00	1	SLU	-19446.20	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7018.75	-918.56	0.85	11.31	7078.60	1.00	32294.70	349210.00	32294.70	4.562
2	59.52	1	SLU	4561.75	-597.01	0.85	11.31	4600.65	1.00	32294.70	349261.00	32294.70	7.020
3	119.05	1	SLU	2450.34	-320.68	0.85	11.31	2471.23	1.00	32294.70	349123.00	32294.70	13.068

4	178.57	1	SLU	658.83	-86.22	0.85	11.31	664.45	1.00	32294.70	348985.00	32294.70	48.604
5	238.09	1	SLU	-838.99	109.80	0.85	11.31	846.14	1.00	32294.70	348848.00	32294.70	38.167
6	297.62	1	SLU	-2069.52	270.84	0.85	11.31	2087.17	1.00	32294.70	348711.00	32294.70	15.473
7	357.14	1	SLU	-3370.48	441.10	0.85	11.31	3399.22	1.00	32294.70	348575.00	32294.70	9.501
8	416.67	1	SLU	-4695.44	614.50	0.85	11.31	4735.48	1.00	32294.70	348172.00	32294.70	6.820
9	476.19	1	SLU	-5694.39	745.24	0.85	11.31	5742.94	1.00	32294.70	347769.00	32294.70	5.623
10	535.71	1	SLU	-6408.13	838.64	0.85	11.31	6462.77	1.00	32294.70	347367.00	32294.70	4.997
11	595.24	1	SLU	-6875.19	899.77	0.85	11.31	6933.82	1.00	32294.70	346966.00	32294.70	4.658
12	654.76	1	SLU	-7131.56	933.32	0.85	11.31	7192.37	1.00	32294.70	346566.00	32294.70	4.490
13	714.29	1	SLU	-7210.47	943.65	0.85	11.31	7271.95	1.00	32294.70	346167.00	32294.70	4.441
14	773.81	1	SLU	-7142.32	934.73	0.85	11.31	7203.22	1.00	32294.70	345768.00	32294.70	4.483
15	833.33	1	SLU	-6954.63	910.17	0.85	11.31	7013.94	1.00	32294.70	345371.00	32294.70	4.604
16	892.86	1	SLU	-6672.10	873.19	0.85	11.31	6729.00	1.00	32294.70	344973.00	32294.70	4.799
17	952.38	1	SLU	-6316.64	826.67	0.85	11.31	6370.50	1.00	32294.70	344577.00	32294.70	5.069
18	1011.90	1	SLU	-5907.49	773.13	0.85	11.31	5957.87	1.00	32294.70	344181.00	32294.70	5.421
19	1071.43	1	SLU	-5461.40	714.75	0.85	11.31	5507.97	1.00	32294.70	343786.00	32294.70	5.863
20	1130.95	1	SLU	-4992.76	653.41	0.85	11.31	5035.34	1.00	32294.70	343392.00	32294.70	6.414
21	1190.48	1	SLU	-4513.77	590.73	0.85	11.31	4552.27	1.00	32294.70	342998.00	32294.70	7.094
22	1250.00	1	SLU	-4034.67	528.02	0.85	11.31	4069.07	1.00	32294.70	342605.00	32294.70	7.937
23	1309.52	1	SLU	-3563.86	466.41	0.85	11.31	3594.25	1.00	32294.70	342213.00	32294.70	8.985
24	1369.05	1	SLU	-3108.18	406.77	0.85	11.31	3134.68	1.00	32294.70	341821.00	32294.70	10.302
25	1428.57	1	SLU	-2673.01	349.82	0.85	11.31	2695.81	1.00	32294.70	341429.00	32294.70	11.980
26	1488.10	1	SLU	-2262.53	296.10	0.85	11.31	2281.82	1.00	32294.70	341039.00	32294.70	14.153
27	1547.62	1	SLU	-1879.81	246.01	0.85	11.31	1895.84	1.00	32294.70	340648.00	32294.70	17.035
28	1607.14	1	SLU	-1527.07	199.85	0.85	11.31	1540.09	1.00	32294.70	340258.00	32294.70	20.969
29	1666.67	1	SLU	-1205.73	157.80	0.85	11.31	1216.01	1.00	32294.70	339869.00	32294.70	26.558
30	1726.19	1	SLU	-916.65	119.96	0.85	11.31	924.46	1.00	32294.70	339480.00	32294.70	34.934
31	1785.71	1	SLU	-660.17	86.40	0.85	11.31	665.80	1.00	32294.70	339091.00	32294.70	48.505
32	1845.24	1	SLU	-436.29	57.10	0.85	11.31	440.01	1.00	32294.70	338703.00	32294.70	73.396
33	1904.76	1	SLU	-244.73	32.03	0.85	11.31	246.82	1.00	32294.70	338315.00	32294.70	>100
34	1964.29	1	SLU	-85.06	11.13	0.85	11.31	85.79	1.00	32294.70	337928.00	32294.70	>100
35	2023.81	1	SLU	43.27	-5.66	0.85	11.31	43.64	1.00	32294.70	337541.00	32294.70	>100
36	2083.33	1	SLU	140.84	-18.43	0.85	11.31	142.04	1.00	32294.70	337154.00	32294.70	>100
37	2142.86	1	SLU	208.21	-27.25	0.85	11.31	209.99	1.00	32294.70	336768.00	32294.70	>100
38	2202.38	1	SLU	245.88	-32.18	0.85	11.31	247.98	1.00	32294.70	336381.00	32294.70	>100
39	2261.90	1	SLU	254.27	-33.28	0.85	11.31	256.43	1.00	32294.70	335995.00	32294.70	>100
40	2321.43	1	SLU	233.69	-30.58	0.85	11.31	235.69	1.00	32294.70	335610.00	32294.70	>100
41	2380.95	1	SLU	184.39	-24.13	0.85	11.31	185.96	1.00	32294.70	335224.00	32294.70	>100
42	2440.48	1	SLU	106.47	-13.93	0.85	11.31	107.38	1.00	32294.70	334839.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_F <daN/cmq>
44	0.00	2	SLE R	-90716.20	13187.20	43613.90	37.70	40.84	41.37	600.82
45	59.52	2	SLE R	-91293.80	13928.50	46065.80	40.84	37.70	44.04	676.44
46	119.05	2	SLE R	-90768.80	14376.20	47546.30	43.98	34.56	45.72	731.47
47	178.57	2	SLE R	-90246.60	14573.00	48197.10	43.98	34.56	46.48	758.88
48	238.09	2	SLE R	-89727.20	14558.40	48148.90	43.98	34.56	46.47	762.39
49	297.62	2	SLE R	-89210.70	14368.50	47520.80	43.98	34.56	45.81	745.95
50	357.14	2	SLE R	-88697.00	14022.60	46377.10	43.98	34.56	44.58	711.92
51	416.67	2	SLE R	-86625.30	13499.90	44648.20	40.84	37.70	42.82	673.39
52	476.19	2	SLE R	-84558.30	12828.00	42426.20	40.84	37.70	40.52	618.48
53	535.71	2	SLE R	-82495.80	12046.40	39841.10	37.70	40.84	37.82	552.22
54	595.24	2	SLE R	-80437.80	11189.20	37006.00	37.70	40.84	34.85	479.20
55	654.76	2	SLE R	-78384.00	10285.80	34018.20	37.70	40.84	31.74	432.88
56	714.29	2	SLE R	-76334.50	9361.15	30960.10	37.70	40.84	28.58	391.44
57	773.81	2	SLE R	-74289.00	8436.13	27900.80	37.70	40.84	25.47	350.54
58	833.33	2	SLE R	-72247.60	7527.86	24896.90	31.42	47.12	22.50	311.28
59	892.86	2	SLE R	-70210.00	6650.10	21993.90	31.42	47.12	19.74	274.64
60	952.38	2	SLE R	-68176.20	5813.61	19227.30	28.27	50.27	17.25	241.40
61	1011.90	2	SLE R	-66146.00	5026.51	16624.20	25.13	53.41	15.07	212.03
62	1071.43	2	SLE R	-64119.40	4294.62	14203.60	18.85	59.69	13.20	186.62
63	1130.95	2	SLE R	-62096.20	3621.73	11978.10	12.57	65.97	11.61	164.94
64	1190.48	2	SLE R	-60076.40	3009.94	9954.76	0.00	78.54	10.27	146.53
65	1250.00	2	SLE R	-58059.80	2459.90	8135.62	0.00	78.54	9.12	130.61
66	1309.52	2	SLE R	-56046.30	1971.07	6518.90	0.00	78.54	8.08	116.26
67	1369.05	2	SLE R	-54035.80	1541.92	5099.58	0.00	78.54	7.15	103.38
68	1428.57	2	SLE R	-52028.20	1170.15	3870.03	0.00	78.54	6.32	91.89
69	1488.10	2	SLE R	-50023.40	852.83	2820.57	0.00	78.54	5.59	81.73
70	1547.62	2	SLE R	-48021.20	586.59	1940.02	0.00	78.54	4.95	72.81
71	1607.14	2	SLE R	-46021.70	367.69	1216.05	0.00	78.54	4.40	65.05
72	1666.67	2	SLE R	-44024.60	192.18	635.58	0.00	78.54	3.92	58.35
73	1726.19	2	SLE R	-42029.90	55.95	185.05	0.00	78.54	3.52	52.61
74	1785.71	2	SLE R	-40037.40	-45.17	-149.38	0.00	78.54	3.34	49.91
75	1845.24	2	SLE R	-38047.10	-115.37	-381.57	0.00	78.54	3.30	49.18
76	1904.76	2	SLE R	-36058.80	-158.85	-525.37	0.00	78.54	3.21	47.81
77	1964.29	2	SLE R	-34072.50	-179.73	-594.43	0.00	78.54	3.09	45.89

78	2023.81	2	SLE R	-32088.00	-182.09	-602.23	0.00	78.54	2.93	43.53
79	2083.33	2	SLE R	-30105.20	-169.91	-561.96	0.00	78.54	2.75	40.82
80	2142.86	2	SLE R	-28124.00	-147.13	-486.61	0.00	78.54	2.55	37.85
81	2202.38	2	SLE R	-26144.30	-117.60	-388.93	0.00	78.54	2.34	34.72
82	2261.90	2	SLE R	-24166.00	-85.10	-281.45	0.00	78.54	2.12	31.52
83	2321.43	2	SLE R	-22189.10	-53.39	-176.58	0.00	78.54	1.90	28.35
84	2380.95	2	SLE R	-20213.30	-26.18	-86.59	0.00	78.54	1.69	25.28
85	2440.48	2	SLE R	-18238.60	-7.16	-23.67	0.00	78.54	1.50	22.41
86	2500.00	2	SLE R	-16264.90	0.00	0.00	0.00	78.54	1.32	19.83
87	0.00	4	SLE Q	-90716.20	13187.20	43613.90	37.70	40.84	41.37	600.82
88	59.52	4	SLE Q	-91293.80	13928.50	46065.80	40.84	37.70	44.04	676.44
89	119.05	4	SLE Q	-90768.80	14376.20	47546.30	43.98	34.56	45.72	731.47
90	178.57	4	SLE Q	-90246.60	14573.00	48197.10	43.98	34.56	46.48	758.88
91	238.09	4	SLE Q	-89727.20	14558.40	48148.90	43.98	34.56	46.47	762.39
92	297.62	4	SLE Q	-89210.70	14368.50	47520.80	43.98	34.56	45.81	745.95
93	357.14	4	SLE Q	-88697.00	14022.60	46377.10	43.98	34.56	44.58	711.92
94	416.67	4	SLE Q	-86625.30	13499.90	44648.20	40.84	37.70	42.82	673.39
95	476.19	4	SLE Q	-84558.30	12828.00	42426.20	40.84	37.70	40.52	618.48
96	535.71	4	SLE Q	-82495.80	12046.40	39841.10	37.70	40.84	37.82	552.22
97	595.24	4	SLE Q	-80437.80	11189.20	37006.00	37.70	40.84	34.85	479.20
98	654.76	4	SLE Q	-78384.00	10285.80	34018.20	37.70	40.84	31.74	432.88
99	714.29	4	SLE Q	-76334.50	9361.15	30960.10	37.70	40.84	28.58	391.44
100	773.81	4	SLE Q	-74289.00	8436.13	27900.80	37.70	40.84	25.47	350.54
101	833.33	4	SLE Q	-72247.60	7527.86	24896.90	31.42	47.12	22.50	311.28
102	892.86	4	SLE Q	-70210.00	6650.10	21993.90	31.42	47.12	19.74	274.64
103	952.38	4	SLE Q	-68176.20	5813.61	19227.30	28.27	50.27	17.25	241.40
104	1011.90	4	SLE Q	-66146.00	5026.51	16624.20	25.13	53.41	15.07	212.03
105	1071.43	4	SLE Q	-64119.40	4294.62	14203.60	18.85	59.69	13.20	186.62
106	1130.95	4	SLE Q	-62096.20	3621.73	11978.10	12.57	65.97	11.61	164.94
107	1190.48	4	SLE Q	-60076.40	3009.94	9954.76	0.00	78.54	10.27	146.53
108	1250.00	4	SLE Q	-58059.80	2459.90	8135.62	0.00	78.54	9.12	130.61
109	1309.52	4	SLE Q	-56046.30	1971.07	6518.90	0.00	78.54	8.08	116.26
110	1369.05	4	SLE Q	-54035.80	1541.92	5099.58	0.00	78.54	7.15	103.38
111	1428.57	4	SLE Q	-52028.20	1170.15	3870.03	0.00	78.54	6.32	91.89
112	1488.10	4	SLE Q	-50023.40	852.83	2820.57	0.00	78.54	5.59	81.73
113	1547.62	4	SLE Q	-48021.20	586.59	1940.02	0.00	78.54	4.95	72.81
114	1607.14	4	SLE Q	-46021.70	367.69	1216.05	0.00	78.54	4.40	65.05
115	1666.67	4	SLE Q	-44024.60	192.18	635.58	0.00	78.54	3.92	58.35
116	1726.19	4	SLE Q	-42029.90	55.95	185.05	0.00	78.54	3.52	52.61
117	1785.71	4	SLE Q	-40037.40	-45.17	-149.38	0.00	78.54	3.34	49.91
118	1845.24	4	SLE Q	-38047.10	-115.37	-381.57	0.00	78.54	3.30	49.18
119	1904.76	4	SLE Q	-36058.80	-158.85	-525.37	0.00	78.54	3.21	47.81
120	1964.29	4	SLE Q	-34072.50	-179.73	-594.43	0.00	78.54	3.09	45.89
121	2023.81	4	SLE Q	-32088.00	-182.09	-602.23	0.00	78.54	2.93	43.53
122	2083.33	4	SLE Q	-30105.20	-169.91	-561.96	0.00	78.54	2.75	40.82
123	2142.86	4	SLE Q	-28124.00	-147.13	-486.61	0.00	78.54	2.55	37.85
124	2202.38	4	SLE Q	-26144.30	-117.60	-388.93	0.00	78.54	2.34	34.72
125	2261.90	4	SLE Q	-24166.00	-85.10	-281.45	0.00	78.54	2.12	31.52
126	2321.43	4	SLE Q	-22189.10	-53.39	-176.58	0.00	78.54	1.90	28.35
127	2380.95	4	SLE Q	-20213.30	-26.18	-86.59	0.00	78.54	1.69	25.28
128	2440.48	4	SLE Q	-18238.60	-7.16	-23.67	0.00	78.54	1.50	22.41
129	2500.00	4	SLE Q	-16264.90	0.00	0.00	0.00	78.54	1.32	19.83

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-90716.20	43613.90	13187.20	46.00	136.36	0.50	20.00	203.64	18.85	1052.17	600.82	0.17	0.06
88	59.52	4	SLE Q	-91293.80	46065.80	13928.50	46.00	136.36	0.50	20.00	206.05	18.85	1074.92	676.44	0.20	0.07
89	119.05	4	SLE Q	-90768.80	47546.30	14376.20	46.00	136.36	0.50	20.00	207.77	18.85	1091.09	731.47	0.21	0.08
90	178.57	4	SLE Q	-90246.60	48197.10	14573.00	46.00	136.36	0.50	20.00	208.61	18.85	1099.00	758.88	0.22	0.08
91	238.09	4	SLE Q	-89727.20	48148.90	14558.40	46.00	136.36	0.50	20.00	208.81	18.85	1100.91	762.39	0.22	0.08
92	297.62	4	SLE Q	-89210.70	47520.80	14368.50	46.00	136.36	0.50	20.00	208.50	18.85	1097.97	745.95	0.22	0.08
93	357.14	4	SLE Q	-88697.00	46377.10	14022.60	46.00	136.36	0.50	20.00	207.69	18.85	1090.33	711.92	0.21	0.07
94	416.67	4	SLE Q	-86625.30	44648.20	13499.90	46.00	136.36	0.50	20.00	207.04	18.85	1084.25	673.39	0.20	0.07
95	476.19	4	SLE Q	-84558.30	42426.20	12828.00	46.00	136.36	0.50	20.00	205.78	18.85	1072.37	618.48	0.18	0.06
96	535.71	4	SLE Q	-82495.80	39841.10	12046.40	46.00	136.36	0.50	20.00	203.87	18.85	1054.39	552.22	0.16	0.06
97	595.24	4	SLE Q	-80437.80	37006.00	11189.20	46.00	136.36	0.50	20.00	201.23	18.85	1029.49	479.20	0.14	0.05
98	654.76	4	SLE Q	-78384.00	34018.20	10285.80	46.00	136.36	0.50	20.00	197.71	18.85	996.33	403.57	0.12	0.04
99	714.29	4	SLE Q	-76334.50	30960.10	9361.15	46.00	136.36	0.50	20.00	193.11	18.85	952.97	329.03	0.10	0.03
100	773.81	4	SLE Q	-74289.00	27900.80	8436.13	46.00	136.36	0.50	20.00	187.16	18.85	896.86	258.77	0.08	0.02
101	833.33	4	SLE Q	-72247.60	24896.90	7527.86	46.00	136.36	0.50	20.00	196.93	15.71	824.15	195.41	0.06	0.02
102	892.86	4	SLE Q	-70210.00	21993.90	6650.10	46.00	136.36	0.50	20.00	205.94	12.57	715.92	140.82	0.04	0.01
103	952.38	4	SLE Q	-68176.20	19227.30	5813.61	46.00	136.36	0.50	20.00	182.74	12.57	570.11	95.96	0.03	0.01
104	1011.90	4	SLE Q	-66146.00	16624.20	5026.51	46.00	136.36	0.50	20.00	158.17	12.57	415.76	60.66	0.02	0.00
105	1071.43	4	SLE Q	-64119.40	14203.60	4294.62	46.00	136.36	0.50	20.00	176.82	6.28	266.48	33.90	0.01	0.00
130	0.00	3	SLE F	-90716.20	43613.90	13187.20	46.00	136.36	0.50	20.00	203.64	18.85	1052.17	600.82	0.17	0.06
131	59.52	3	SLE F	-91293.80	46065.80	13928.50	46.00	136.36	0.50	20.00	206.05	18.85	1074.92	676.44	0.20	0.07

132	119.05	3	SLE F	-90768.80	47546.30	14376.20	46.00	136.36	0.50	20.00	207.77	18.85	1091.09	731.47	0.21	0.08
133	178.57	3	SLE F	-90246.60	48197.10	14573.00	46.00	136.36	0.50	20.00	208.61	18.85	1099.00	758.88	0.22	0.08
134	238.09	3	SLE F	-89727.20	48148.90	14558.40	46.00	136.36	0.50	20.00	208.81	18.85	1100.91	762.39	0.22	0.08
135	297.62	3	SLE F	-89210.70	47520.80	14368.50	46.00	136.36	0.50	20.00	208.50	18.85	1097.97	745.95	0.22	0.08
136	357.14	3	SLE F	-88697.00	46377.10	14022.60	46.00	136.36	0.50	20.00	207.69	18.85	1090.33	711.92	0.21	0.07
137	416.67	3	SLE F	-86625.30	44648.20	13499.90	46.00	136.36	0.50	20.00	207.04	18.85	1084.25	673.39	0.20	0.07
138	476.19	3	SLE F	-84558.30	42426.20	12828.00	46.00	136.36	0.50	20.00	205.78	18.85	1072.37	618.48	0.18	0.06
139	535.71	3	SLE F	-82495.80	39841.10	12046.40	46.00	136.36	0.50	20.00	203.87	18.85	1054.39	552.22	0.16	0.06
140	595.24	3	SLE F	-80437.80	37006.00	11189.20	46.00	136.36	0.50	20.00	201.23	18.85	1029.49	479.20	0.14	0.05
141	654.76	3	SLE F	-78384.00	34018.20	10285.80	46.00	136.36	0.50	20.00	197.71	18.85	996.33	403.57	0.12	0.04
142	714.29	3	SLE F	-76334.50	30960.10	9361.15	46.00	136.36	0.50	20.00	193.11	18.85	952.97	329.03	0.10	0.03
143	773.81	3	SLE F	-74289.00	27900.80	8436.13	46.00	136.36	0.50	20.00	187.16	18.85	896.86	258.77	0.08	0.02
144	833.33	3	SLE F	-72247.60	24896.90	7527.86	46.00	136.36	0.50	20.00	196.93	15.71	824.15	195.41	0.06	0.02
145	892.86	3	SLE F	-70210.00	21993.90	6650.10	46.00	136.36	0.50	20.00	205.94	12.57	715.92	140.82	0.04	0.01
146	952.38	3	SLE F	-68176.20	19227.30	5813.61	46.00	136.36	0.50	20.00	182.74	12.57	570.11	95.96	0.03	0.01
147	1011.90	3	SLE F	-66146.00	16624.20	5026.51	46.00	136.36	0.50	20.00	158.17	12.57	415.76	60.66	0.02	0.00
148	1071.43	3	SLE F	-64119.40	14203.60	4294.62	46.00	136.36	0.50	20.00	176.82	6.28	266.48	33.90	0.01	0.00

Verifiche principali

Caso	Tipo
5	SLU N cost - min. sic.
13	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
47	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
48	C.Rare - Sf max (max traz.)
65	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
91	C.Q.Per. - Sf max (max traz.),C.Q.Per. - Wk Max
108	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 18

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 18 (-78)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	166477.00	6757.23	-965.38	54140.50	-25200.60
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	166477.00	6757.23	-965.38	54140.50	-25200.60
2	2	SLE R	RVN	123316.00	5005.36	-715.09	40104.10	-18667.10
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	123316.00	5005.36	-715.09	40104.10	-18667.10
3	3	SLE F	RVN	123316.00	5005.36	-715.09	40104.10	-18667.10
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	123316.00	5005.36	-715.09	40104.10	-18667.10
4	4	SLE Q	RVN	123316.00	5005.36	-715.09	40104.10	-18667.10
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	123316.00	5005.36	-715.09	40104.10	-18667.10

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-166477.00	-6757.23	965.38	-54140.50	25200.60
2	2	SLE R	1	-123316.00	-5005.36	715.09	-40104.10	18667.10
3	3	SLE F	1	-123316.00	-5005.36	715.09	-40104.10	18667.10
4	4	SLE Q	1	-123316.00	-5005.36	715.09	-40104.10	18667.10

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-166477.00	53920.20	25098.00	-166477.00	192226.00	89633.60	2-3	155.00	3.566
2	59.52	1	SLU	-166528.00	56942.30	26504.70	-166528.00	192242.00	89641.30	2-3	155.00	3.377
3	119.05	1	SLU	-164952.00	58764.90	27353.10	-164952.00	191736.00	89403.50	2-3	155.00	3.264
4	178.57	1	SLU	-163382.00	59563.00	27724.60	-163382.00	191232.00	89166.40	2-3	155.00	3.212
5	238.09	1	SLU	-161816.00	59498.00	27694.30	-161816.00	190726.00	88928.70	2-3	155.00	3.207
6	297.62	1	SLU	-160255.00	58717.30	27330.90	-160255.00	190222.00	88691.50	2-3	155.00	3.241
7	357.14	1	SLU	-158700.00	57299.90	26671.20	-158700.00	189719.00	88454.90	2-3	155.00	3.312
8	416.67	1	SLU	-154849.00	55160.20	25675.20	-154849.00	188474.00	87869.10	2-3	155.00	3.418
9	476.19	1	SLU	-151007.00	52412.00	24396.00	-151007.00	187227.00	87282.20	2-3	155.00	3.573
10	535.71	1	SLU	-147172.00	49215.90	22908.30	-147172.00	185978.00	86694.50	2-3	155.00	3.780
11	595.24	1	SLU	-143346.00	45711.40	21277.10	-143346.00	184731.00	86107.50	2-3	155.00	4.042
12	654.76	1	SLU	-139527.00	42018.80	19558.30	-139527.00	183481.00	85518.50	2-3	155.00	4.368
13	714.29	1	SLU	-135716.00	38239.70	17799.30	-135716.00	182231.00	84929.70	2-3	155.00	4.767
14	773.81	1	SLU	-131912.00	34459.50	16039.70	-131912.00	180981.00	84341.00	2-3	155.00	5.253
15	833.33	1	SLU	-128115.00	30748.00	14312.20	-128115.00	179729.00	83750.60	2-3	155.00	5.846
16	892.86	1	SLU	-124325.00	27161.40	12642.70	-124325.00	178477.00	83160.80	2-3	155.00	6.572
17	952.38	1	SLU	-120542.00	23743.70	11051.90	-120542.00	177224.00	82570.10	2-3	155.00	7.465
18	1011.90	1	SLU	-116765.00	20527.90	9555.05	-116765.00	175970.00	81978.80	2-3	155.00	8.574
19	1071.43	1	SLU	-112994.00	17537.80	8163.27	-112994.00	174717.00	81387.90	2-3	155.00	9.964
20	1130.95	1	SLU	-109230.00	14789.00	6883.76	-109230.00	173462.00	80795.60	2-3	155.00	11.731
21	1190.48	1	SLU	-105471.00	12289.80	5720.49	-105471.00	172177.00	80237.00	2-3	155.00	14.013
22	1250.00	1	SLU	-101718.00	10043.00	4674.68	-101718.00	170831.00	79732.20	2-3	155.00	17.018
23	1309.52	1	SLU	-97970.20	8046.34	3745.30	-97970.20	169494.00	79102.90	2-3	155.00	21.075
24	1369.05	1	SLU	-94227.80	6293.55	2929.43	-94227.80	168156.00	78473.10	2-3	155.00	26.731
25	1428.57	1	SLU	-90490.50	4775.19	2222.69	-2571250.00	166814.00	77841.00	2-3	155.00	28.415
26	1488.10	1	SLU	-86758.10	3479.32	1619.51	-2571250.00	165470.00	77208.30	2-3	155.00	29.637
27	1547.62	1	SLU	-83030.30	2392.10	1113.44	-2571250.00	164124.00	76574.60	2-3	155.00	30.968
28	1607.14	1	SLU	-79307.00	1498.29	697.40	-2571250.00	162773.00	75938.50	2-3	155.00	32.422
29	1666.67	1	SLU	-75587.90	781.73	363.87	-2571250.00	161423.00	75302.90	2-3	155.00	34.017
30	1726.19	1	SLU	-71872.90	225.65	105.03	-2571250.00	160066.00	74663.70	2-3	155.00	35.775
31	1785.71	1	SLU	-68161.70	-187.02	-87.05	-2571250.00	-158674.00	-73896.60	2-3	335.00	37.723
32	1845.24	1	SLU	-64454.20	-473.45	-220.37	-2571250.00	-157343.00	-73269.10	2-3	335.00	39.893
33	1904.76	1	SLU	-60750.10	-650.71	-302.88	-2571250.00	-156010.00	-72640.80	2-3	335.00	42.325
34	1964.29	1	SLU	-57049.30	-735.69	-342.44	-2571250.00	-154676.00	-72012.60	2-3	335.00	45.071
35	2023.81	1	SLU	-53351.60	-745.01	-346.78	-2571250.00	-153339.00	-71382.60	2-3	335.00	48.194
36	2083.33	1	SLU	-49656.70	-695.01	-323.50	-2571250.00	-152002.00	-70752.40	2-3	335.00	51.781
37	2142.86	1	SLU	-45964.50	-601.71	-280.08	-2571250.00	-150663.00	-70121.90	2-3	335.00	55.940
38	2202.38	1	SLU	-42274.70	-480.85	-223.82	-2571250.00	-149321.00	-69490.10	2-3	335.00	60.822
39	2261.90	1	SLU	-38587.20	-347.94	-161.95	-2571250.00	-147979.00	-68858.00	2-3	335.00	66.635
40	2321.43	1	SLU	-34901.80	-218.28	-101.60	-2571250.00	-146635.00	-68225.40	2-3	335.00	73.671
41	2380.95	1	SLU	-31218.30	-107.02	-49.82	-2571250.00	-145277.00	-67606.00	2-3	335.00	82.364
42	2440.48	1	SLU	-27536.40	-29.26	-13.62	-2571250.00	-143831.00	-67091.40	2-3	335.00	93.376
43	2500.00	1	SLU	-23856.00	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6757.23	-965.38	0.85	11.31	6825.85	1.00	32294.70	355514.00	32294.70	4.731
2	59.52	1	SLU	4388.15	-626.92	0.85	11.31	4432.71	1.00	32294.70	355521.00	32294.70	7.286
3	119.05	1	SLU	2352.40	-336.08	0.85	11.31	2376.28	1.00	32294.70	355296.00	32294.70	13.590
4	178.57	1	SLU	625.21	-89.32	0.85	11.31	631.56	1.00	32294.70	355071.00	32294.70	51.135
5	238.09	1	SLU	-818.74	116.97	0.85	11.31	827.05	1.00	32294.70	354847.00	32294.70	39.048
6	297.62	1	SLU	-2004.90	286.43	0.85	11.31	2025.26	1.00	32294.70	354623.00	32294.70	15.946
7	357.14	1	SLU	-3258.78	465.57	0.85	11.31	3291.87	1.00	32294.70	354400.00	32294.70	9.810
8	416.67	1	SLU	-4535.64	647.99	0.85	11.31	4581.69	1.00	32294.70	353849.00	32294.70	7.049
9	476.19	1	SLU	-5498.13	785.49	0.85	11.31	5553.95	1.00	32294.70	353298.00	32294.70	5.815
10	535.71	1	SLU	-6185.61	883.71	0.85	11.31	6248.42	1.00	32294.70	352749.00	32294.70	5.168
11	595.24	1	SLU	-6635.25	947.95	0.85	11.31	6702.62	1.00	32294.70	352201.00	32294.70	4.818
12	654.76	1	SLU	-6881.74	983.16	0.85	11.31	6951.62	1.00	32294.70	351654.00	32294.70	4.646
13	714.29	1	SLU	-6957.16	993.94	0.85	11.31	7027.80	1.00	32294.70	351108.00	32294.70	4.595
14	773.81	1	SLU	-6890.81	984.46	0.85	11.31	6960.78	1.00	32294.70	350563.00	32294.70	4.640
15	833.33	1	SLU	-6709.25	958.52	0.85	11.31	6777.38	1.00	32294.70	350019.00	32294.70	4.765
16	892.86	1	SLU	-6436.28	919.52	0.85	11.31	6501.64	1.00	32294.70	349476.00	32294.70	4.967
17	952.38	1	SLU	-6093.03	870.49	0.85	11.31	6154.90	1.00	32294.70	348934.00	32294.70	5.247
18	1011.90	1	SLU	-5698.07	814.06	0.85	11.31	5755.92	1.00	32294.70	348393.00	32294.70	5.611
19	1071.43	1	SLU	-5267.53	752.55	0.85	11.31	5321.01	1.00	32294.70	347853.00	32294.70	6.069
20	1130.95	1	SLU	-4815.29	687.94	0.85	11.31	4864.18	1.00	32294.70	347314.00	32294.70	6.639
21	1190.48	1	SLU	-4353.12	621.91	0.85	11.31	4397.32	1.00	32294.70	346776.00	32294.70	7.344
22	1250.00	1	SLU	-3890.87	555.87	0.85	11.31	3930.38	1.00	32294.70	346238.00	32294.70	8.217
23	1309.52	1	SLU	-3436.67	490.98	0.85	11.31	3471.56	1.00	32294.70	345701.00	32294.70	9.303
24	1369.05	1	SLU	-2997.08	428.18	0.85	11.31	3027.51	1.00	32294.70	345165.00	32294.70	10.667
25	1428.57	1	SLU	-2577.31	368.21	0.85	11.31	2603.48	1.00	32294.70	344630.00	32294.70	12.405
26	1488.10	1	SLU	-2181.37	311.64	0.85	11.31	2203.52	1.00	32294.70	344095.00	32294.70	14.656
27	1547.62	1	SLU	-1812.23	258.91	0.85	11.31	1830.63	1.00	32294.70	343561.00	32294.70	17.641

28	1607.14	1	SLU	-1472.01	210.30	0.85	11.31	1486.96	1.00	32294.70	343028.00	32294.70	21.719
29	1666.67	1	SLU	-1162.11	166.03	0.85	11.31	1173.91	1.00	32294.70	342495.00	32294.70	27.510
30	1726.19	1	SLU	-883.32	126.20	0.85	11.31	892.29	1.00	32294.70	341963.00	32294.70	36.193
31	1785.71	1	SLU	-635.99	90.86	0.85	11.31	642.45	1.00	32294.70	341432.00	32294.70	50.268
32	1845.24	1	SLU	-420.11	60.02	0.85	11.31	424.37	1.00	32294.70	340900.00	32294.70	76.100
33	1904.76	1	SLU	-235.41	33.63	0.85	11.31	237.80	1.00	32294.70	340370.00	32294.70	>100
34	1964.29	1	SLU	-81.46	11.64	0.85	11.31	82.29	1.00	32294.70	339840.00	32294.70	>100
35	2023.81	1	SLU	42.25	-6.04	0.85	11.31	42.68	1.00	32294.70	339310.00	32294.70	>100
36	2083.33	1	SLU	136.30	-19.47	0.85	11.31	137.68	1.00	32294.70	338781.00	32294.70	>100
37	2142.86	1	SLU	201.21	-28.75	0.85	11.31	203.25	1.00	32294.70	338252.00	32294.70	>100
38	2202.38	1	SLU	237.47	-33.93	0.85	11.31	239.88	1.00	32294.70	337723.00	32294.70	>100
39	2261.90	1	SLU	245.50	-35.07	0.85	11.31	247.99	1.00	32294.70	337195.00	32294.70	>100
40	2321.43	1	SLU	225.59	-32.23	0.85	11.31	227.88	1.00	32294.70	336667.00	32294.70	>100
41	2380.95	1	SLU	177.97	-25.43	0.85	11.31	179.78	1.00	32294.70	336140.00	32294.70	>100
42	2440.48	1	SLU	102.75	-14.68	0.85	11.31	103.80	1.00	32294.70	335612.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-123316.00	18591.10	39940.90	34.56	43.98	37.85	524.03
45	59.52	2	SLE R	-123667.00	19633.10	42179.50	34.56	43.98	40.18	554.60
46	119.05	2	SLE R	-122690.00	20261.50	43529.60	34.56	43.98	41.67	573.72
47	178.57	2	SLE R	-121717.00	20536.70	44120.80	34.56	43.98	42.35	582.38
48	238.09	2	SLE R	-120747.00	20514.30	44072.60	34.56	43.98	42.35	582.04
49	297.62	2	SLE R	-119781.00	20245.10	43494.30	34.56	43.98	41.76	574.18
50	357.14	2	SLE R	-118819.00	19756.40	42444.30	34.56	43.98	40.67	559.67
51	416.67	2	SLE R	-115982.00	19018.70	40859.40	34.56	43.98	39.08	538.27
52	476.19	2	SLE R	-113151.00	18071.10	38823.70	34.56	43.98	37.01	510.65
53	535.71	2	SLE R	-110326.00	16969.10	36456.20	34.56	43.98	34.61	478.65
54	595.24	2	SLE R	-107507.00	15760.80	33860.30	34.56	43.98	32.01	443.96
55	654.76	2	SLE R	-104694.00	14487.60	31125.00	28.27	50.27	29.33	408.12
56	714.29	2	SLE R	-101887.00	13184.70	28325.70	28.27	50.27	26.67	372.42
57	773.81	2	SLE R	-99084.40	11881.30	25525.60	28.27	50.27	24.11	337.99
58	833.33	2	SLE R	-96287.60	10601.60	22776.30	21.99	56.55	21.72	305.65
59	892.86	2	SLE R	-93495.90	9364.98	20119.60	21.99	56.55	19.53	275.96
60	952.38	2	SLE R	-90709.20	8186.57	17587.90	15.71	62.83	17.57	249.15
61	1011.90	2	SLE R	-87927.40	7077.81	15205.90	9.42	69.11	15.83	225.24
62	1071.43	2	SLE R	-85150.40	6046.87	12991.00	0.00	78.54	14.29	203.99
63	1130.95	2	SLE R	-82377.90	5099.08	10954.80	0.00	78.54	12.90	184.87
64	1190.48	2	SLE R	-79609.80	4237.40	9103.55	0.00	78.54	11.63	167.23
65	1250.00	2	SLE R	-76846.00	3462.73	7439.27	0.00	78.54	10.46	151.03
66	1309.52	2	SLE R	-74086.30	2774.30	5960.25	0.00	78.54	9.40	136.27
67	1369.05	2	SLE R	-71330.60	2169.95	4661.89	0.00	78.54	8.44	122.90
68	1428.57	2	SLE R	-68578.70	1646.44	3537.18	0.00	78.54	7.58	110.88
69	1488.10	2	SLE R	-65830.40	1199.63	2577.27	0.00	78.54	6.81	100.13
70	1547.62	2	SLE R	-63085.80	824.77	1771.92	0.00	78.54	6.13	90.57
71	1607.14	2	SLE R	-60344.50	516.60	1109.85	0.00	78.54	5.53	82.13
72	1666.67	2	SLE R	-57606.40	269.53	579.06	0.00	78.54	5.01	74.70
73	1726.19	2	SLE R	-54871.40	77.80	167.15	0.00	78.54	4.55	68.19
74	1785.71	2	SLE R	-52139.40	-64.48	-138.53	0.00	78.54	4.32	64.65
75	1845.24	2	SLE R	-49410.20	-163.24	-350.70	0.00	78.54	4.21	62.97
76	1904.76	2	SLE R	-46683.60	-224.36	-482.00	0.00	78.54	4.07	60.66
77	1964.29	2	SLE R	-43959.50	-253.66	-544.95	0.00	78.54	3.88	57.83
78	2023.81	2	SLE R	-41237.80	-256.87	-551.86	0.00	78.54	3.66	54.56
79	2083.33	2	SLE R	-38518.30	-239.63	-514.82	0.00	78.54	3.42	50.96
80	2142.86	2	SLE R	-35800.80	-207.46	-445.71	0.00	78.54	3.16	47.11
81	2202.38	2	SLE R	-33085.30	-165.79	-356.19	0.00	78.54	2.89	43.10
82	2261.90	2	SLE R	-30371.50	-119.97	-257.73	0.00	78.54	2.61	39.03
83	2321.43	2	SLE R	-27659.40	-75.26	-161.69	0.00	78.54	2.34	34.98
84	2380.95	2	SLE R	-24948.80	-36.90	-79.28	0.00	78.54	2.07	31.03
85	2440.48	2	SLE R	-22239.50	-10.09	-21.67	0.00	78.54	1.82	27.28
86	2500.00	2	SLE R	-19531.40	0.00	0.00	0.00	78.54	1.59	23.81
87	0.00	4	SLE Q	-123316.00	18591.10	39940.90	34.56	43.98	37.85	524.03
88	59.52	4	SLE Q	-123667.00	19633.10	42179.50	34.56	43.98	40.18	554.60
89	119.05	4	SLE Q	-122690.00	20261.50	43529.60	34.56	43.98	41.67	573.72
90	178.57	4	SLE Q	-121717.00	20536.70	44120.80	34.56	43.98	42.35	582.38
91	238.09	4	SLE Q	-120747.00	20514.30	44072.60	34.56	43.98	42.35	582.04
92	297.62	4	SLE Q	-119781.00	20245.10	43494.30	34.56	43.98	41.76	574.18
93	357.14	4	SLE Q	-118819.00	19756.40	42444.30	34.56	43.98	40.67	559.67
94	416.67	4	SLE Q	-115982.00	19018.70	40859.40	34.56	43.98	39.08	538.27
95	476.19	4	SLE Q	-113151.00	18071.10	38823.70	34.56	43.98	37.01	510.65
96	535.71	4	SLE Q	-110326.00	16969.10	36456.20	34.56	43.98	34.61	478.65
97	595.24	4	SLE Q	-107507.00	15760.80	33860.30	34.56	43.98	32.01	443.96
98	654.76	4	SLE Q	-104694.00	14487.60	31125.00	28.27	50.27	29.33	408.12
99	714.29	4	SLE Q	-101887.00	13184.70	28325.70	28.27	50.27	26.67	372.42
100	773.81	4	SLE Q	-99084.40	11881.30	25525.60	28.27	50.27	24.11	337.99
101	833.33	4	SLE Q	-96287.60	10601.60	22776.30	21.99	56.55	21.72	305.65

102	892.86	4	SLE Q	-93495.90	9364.98	20119.60	21.99	56.55	19.53	275.96
103	952.38	4	SLE Q	-90709.20	8186.57	17587.90	15.71	62.83	17.57	249.15
104	1011.90	4	SLE Q	-87927.40	7077.81	15205.90	9.42	69.11	15.83	225.24
105	1071.43	4	SLE Q	-85150.40	6046.87	12991.00	0.00	78.54	14.29	203.99
106	1130.95	4	SLE Q	-82377.90	5099.08	10954.80	0.00	78.54	12.90	184.87
107	1190.48	4	SLE Q	-79609.80	4237.40	9103.55	0.00	78.54	11.63	167.23
108	1250.00	4	SLE Q	-76846.00	3462.73	7439.27	0.00	78.54	10.46	151.03
109	1309.52	4	SLE Q	-74086.30	2774.30	5960.25	0.00	78.54	9.40	136.27
110	1369.05	4	SLE Q	-71330.60	2169.95	4661.89	0.00	78.54	8.44	122.90
111	1428.57	4	SLE Q	-68578.70	1646.44	3537.18	0.00	78.54	7.58	110.88
112	1488.10	4	SLE Q	-65830.40	1199.63	2577.27	0.00	78.54	6.81	100.13
113	1547.62	4	SLE Q	-63085.80	824.77	1771.92	0.00	78.54	6.13	90.57
114	1607.14	4	SLE Q	-60344.50	516.60	1109.85	0.00	78.54	5.53	82.13
115	1666.67	4	SLE Q	-57606.40	269.53	579.06	0.00	78.54	5.01	74.70
116	1726.19	4	SLE Q	-54871.40	77.80	167.15	0.00	78.54	4.55	68.19
117	1785.71	4	SLE Q	-52139.40	-64.48	-138.53	0.00	78.54	4.32	64.65
118	1845.24	4	SLE Q	-49410.20	-163.24	-350.70	0.00	78.54	4.21	62.97
119	1904.76	4	SLE Q	-46683.60	-224.36	-482.00	0.00	78.54	4.07	60.66
120	1964.29	4	SLE Q	-43959.50	-253.66	-544.95	0.00	78.54	3.88	57.83
121	2023.81	4	SLE Q	-41237.80	-256.87	-551.86	0.00	78.54	3.66	54.56
122	2083.33	4	SLE Q	-38518.30	-239.63	-514.82	0.00	78.54	3.42	50.96
123	2142.86	4	SLE Q	-35800.80	-207.46	-445.71	0.00	78.54	3.16	47.11
124	2202.38	4	SLE Q	-33085.30	-165.79	-356.19	0.00	78.54	2.89	43.10
125	2261.90	4	SLE Q	-30371.50	-119.97	-257.73	0.00	78.54	2.61	39.03
126	2321.43	4	SLE Q	-27659.40	-75.26	-161.69	0.00	78.54	2.34	34.98
127	2380.95	4	SLE Q	-24948.80	-36.90	-79.28	0.00	78.54	2.07	31.03
128	2440.48	4	SLE Q	-22239.50	-10.09	-21.67	0.00	78.54	1.82	27.28
129	2500.00	4	SLE Q	-19531.40	0.00	0.00	0.00	78.54	1.59	23.81

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-123316.00	39940.90	18591.10	46.00	136.36	0.50	20.00	197.57	15.71	829.15	328.18	0.10	0.03
88	59.52	4	SLE Q	-123667.00	42179.50	19633.10	46.00	136.36	0.50	20.00	203.68	15.71	877.11	383.98	0.11	0.04
89	119.05	4	SLE Q	-122690.00	43529.60	20261.50	46.00	136.36	0.50	20.00	207.89	15.71	910.17	426.93	0.12	0.04
90	178.57	4	SLE Q	-121717.00	44120.80	20536.70	46.00	136.36	0.50	20.00	210.02	15.71	926.92	450.04	0.13	0.05
91	238.09	4	SLE Q	-120747.00	44072.60	20514.30	46.00	136.36	0.50	20.00	210.68	15.71	932.13	455.17	0.13	0.05
92	297.62	4	SLE Q	-119781.00	43494.30	20245.10	46.00	136.36	0.50	20.00	210.19	15.71	928.23	445.03	0.13	0.05
93	357.14	4	SLE Q	-118819.00	42444.30	19756.40	46.00	136.36	0.50	20.00	208.58	15.71	915.58	421.55	0.12	0.04
94	416.67	4	SLE Q	-115982.00	40859.40	19018.70	46.00	136.36	0.50	20.00	207.16	15.71	904.46	395.51	0.12	0.04
95	476.19	4	SLE Q	-113151.00	38823.70	18071.10	46.00	136.36	0.50	20.00	204.34	15.71	882.31	357.52	0.10	0.04
96	535.71	4	SLE Q	-110326.00	36456.20	16969.10	46.00	136.36	0.50	20.00	200.02	15.71	848.36	311.89	0.09	0.03
97	595.24	4	SLE Q	-107507.00	33860.30	15760.80	46.00	136.36	0.50	20.00	193.99	15.71	801.02	262.60	0.08	0.03
98	654.76	4	SLE Q	-104694.00	31125.00	14487.60	46.00	136.36	0.50	20.00	185.88	15.71	737.30	213.10	0.06	0.02
99	714.29	4	SLE Q	-101887.00	28325.70	13184.70	46.00	136.36	0.50	20.00	174.06	15.71	644.54	166.17	0.05	0.01
100	773.81	4	SLE Q	-99084.40	25525.60	11881.30	46.00	136.36	0.50	20.00	206.69	9.42	540.49	123.81	0.04	0.01
101	833.33	4	SLE Q	-96287.60	22776.30	10601.60	46.00	136.36	0.50	20.00	183.02	9.42	428.94	87.20	0.03	0.01
102	892.86	4	SLE Q	-93495.90	20119.60	9364.98	46.00	136.36	0.50	20.00	158.51	9.42	313.42	56.70	0.02	0.00
103	952.38	4	SLE Q	-90709.20	17587.90	8186.57	46.00	136.36	0.50	20.00	218.57	3.14	198.81	32.02	0.01	0.00
130	0.00	3	SLE F	-123316.00	39940.90	18591.10	46.00	136.36	0.50	20.00	197.57	15.71	829.15	328.18	0.10	0.03
131	59.52	3	SLE F	-123667.00	42179.50	19633.10	46.00	136.36	0.50	20.00	203.68	15.71	877.11	383.98	0.11	0.04
132	119.05	3	SLE F	-122690.00	43529.60	20261.50	46.00	136.36	0.50	20.00	207.89	15.71	910.17	426.93	0.12	0.04
133	178.57	3	SLE F	-121717.00	44120.80	20536.70	46.00	136.36	0.50	20.00	210.02	15.71	926.92	450.04	0.13	0.05
134	238.09	3	SLE F	-120747.00	44072.60	20514.30	46.00	136.36	0.50	20.00	210.68	15.71	932.13	455.17	0.13	0.05
135	297.62	3	SLE F	-119781.00	43494.30	20245.10	46.00	136.36	0.50	20.00	210.19	15.71	928.23	445.03	0.13	0.05
136	357.14	3	SLE F	-118819.00	42444.30	19756.40	46.00	136.36	0.50	20.00	208.58	15.71	915.58	421.55	0.12	0.04
137	416.67	3	SLE F	-115982.00	40859.40	19018.70	46.00	136.36	0.50	20.00	207.16	15.71	904.46	395.51	0.12	0.04
138	476.19	3	SLE F	-113151.00	38823.70	18071.10	46.00	136.36	0.50	20.00	204.34	15.71	882.31	357.52	0.10	0.04
139	535.71	3	SLE F	-110326.00	36456.20	16969.10	46.00	136.36	0.50	20.00	200.02	15.71	848.36	311.89	0.09	0.03
140	595.24	3	SLE F	-107507.00	33860.30	15760.80	46.00	136.36	0.50	20.00	193.99	15.71	801.02	262.60	0.08	0.03
141	654.76	3	SLE F	-104694.00	31125.00	14487.60	46.00	136.36	0.50	20.00	185.88	15.71	737.30	213.10	0.06	0.02
142	714.29	3	SLE F	-101887.00	28325.70	13184.70	46.00	136.36	0.50	20.00	174.06	15.71	644.54	166.17	0.05	0.01
143	773.81	3	SLE F	-99084.40	25525.60	11881.30	46.00	136.36	0.50	20.00	206.69	9.42	540.49	123.81	0.04	0.01
144	833.33	3	SLE F	-96287.60	22776.30	10601.60	46.00	136.36	0.50	20.00	183.02	9.42	428.94	87.20	0.03	0.01
145	892.86	3	SLE F	-93495.90	20119.60	9364.98	46.00	136.36	0.50	20.00	158.51	9.42	313.42	56.70	0.02	0.00
146	952.38	3	SLE F	-90709.20	17587.90	8186.57	46.00	136.36	0.50	20.00	218.57	3.14	198.81	32.02	0.01	0.00

Verifiche principali

Caso	Tipo
5	SLU N cost - min. sic.
13	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
47	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
48	C.Rare - Sf max (max traz.)
63	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
91	C.Q.Per. - Sf max (max traz.),C.Q.Per. - Wk Max
106	C.Q.Per. - Sc max (min. compr.)

134	C.Freq - Wk Max

Palo n. 19

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 19 (-126)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	212368.00	6475.78	-930.75	44827.10	-30893.40
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	212368.00	6475.78	-930.75	44827.10	-30893.40
2	2	SLE R	RVN	157310.00	4796.87	-689.44	33205.30	-22884.00
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	157310.00	4796.87	-689.44	33205.30	-22884.00
3	3	SLE F	RVN	157310.00	4796.87	-689.44	33205.30	-22884.00
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	157310.00	4796.87	-689.44	33205.30	-22884.00
4	4	SLE Q	RVN	157310.00	4796.87	-689.44	33205.30	-22884.00
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	157310.00	4796.87	-689.44	33205.30	-22884.00

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-212368.00	-6475.78	930.75	-44827.10	30893.40
2	2	SLE R	1	-157310.00	-4796.87	689.44	-33205.30	22884.00
3	3	SLE F	1	-157310.00	-4796.87	689.44	-33205.30	22884.00
4	4	SLE Q	1	-157310.00	-4796.87	689.44	-33205.30	22884.00

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-212368.00	44640.60	30764.90	-212368.00	188055.00	129102.00	2-3	145.62	4.207
2	59.52	1	SLU	-212100.00	47287.50	32589.00	-212100.00	187981.00	129054.00	2-3	145.62	3.970
3	119.05	1	SLU	-209888.00	48918.80	33713.30	-209888.00	187375.00	128658.00	2-3	145.62	3.826
4	178.57	1	SLU	-207682.00	49681.70	34239.10	-207682.00	186769.00	128262.00	2-3	145.62	3.755
5	238.09	1	SLU	-205483.00	49712.00	34259.90	-205483.00	186172.00	127829.00	2-3	145.62	3.741
6	297.62	1	SLU	-203290.00	49133.90	33861.50	-203290.00	184203.00	129295.00	2-3	145.00	3.771
7	357.14	1	SLU	-201103.00	48013.60	33089.40	-201103.00	183619.00	128828.00	2-3	145.00	3.847
8	416.67	1	SLU	-196175.00	46276.50	31892.30	-196175.00	182299.00	127770.00	2-3	145.00	3.961
9	476.19	1	SLU	-191257.00	44018.50	30336.10	-191257.00	180977.00	126711.00	2-3	145.00	4.133
10	535.71	1	SLU	-186349.00	41375.10	28514.40	-186349.00	179652.00	125647.00	2-3	145.00	4.363
11	595.24	1	SLU	-181452.00	38464.60	26508.60	-181452.00	178326.00	124581.00	2-3	145.00	4.657
12	654.76	1	SLU	-176564.00	35388.80	24388.80	-176564.00	176988.00	123517.00	2-3	145.00	5.022
13	714.29	1	SLU	-171686.00	32234.00	22214.70	-171686.00	175632.00	122462.00	2-3	145.00	5.469
14	773.81	1	SLU	-166816.00	29072.60	20035.90	-166816.00	174274.00	121404.00	2-3	145.00	6.015
15	833.33	1	SLU	-161956.00	25964.10	17893.60	-161956.00	172914.00	120343.00	2-3	145.00	6.681
16	892.86	1	SLU	-157105.00	22956.40	15820.80	-157105.00	171551.00	119279.00	2-3	145.00	7.494
17	952.38	1	SLU	-152261.00	20087.00	13843.30	-152261.00	170162.00	118232.00	2-3	145.00	8.494
18	1011.90	1	SLU	-147426.00	17384.40	11980.80	-147426.00	168657.00	117264.00	2-3	145.00	9.729
19	1071.43	1	SLU	-142599.00	14869.00	10247.30	-142599.00	167148.00	116294.00	2-3	145.00	11.276
20	1130.95	1	SLU	-137780.00	12554.50	8652.13	-137780.00	165633.00	115323.00	2-3	145.00	13.237
21	1190.48	1	SLU	-132968.00	10448.20	7200.57	-132968.00	164114.00	114351.00	2-3	145.00	15.764
22	1250.00	1	SLU	-128163.00	8552.92	5894.40	-128163.00	162590.00	113377.00	2-3	145.00	19.082
23	1309.52	1	SLU	-123365.00	6867.03	4732.54	-2571250.00	161061.00	112402.00	2-3	145.00	20.843
24	1369.05	1	SLU	-118574.00	5385.58	3711.57	-2571250.00	159527.00	111425.00	2-3	145.00	21.685
25	1428.57	1	SLU	-113789.00	4100.88	2826.19	-2571250.00	157989.00	110447.00	2-3	145.00	22.597

26	1488.10	1	SLU	-109010.00	3003.08	2069.63	-2571250.00	156445.00	109468.00	2-3	145.00	23.587
27	1547.62	1	SLU	-104237.00	2080.74	1433.98	-2571250.00	154899.00	108487.00	2-3	145.00	24.667
28	1607.14	1	SLU	-99469.10	1321.20	910.53	-2571250.00	153346.00	107505.00	2-3	145.00	25.850
29	1666.67	1	SLU	-94707.00	710.97	489.98	-2571250.00	151790.00	106521.00	2-3	145.00	27.149
30	1726.19	1	SLU	-89949.90	236.05	162.68	-2571250.00	151367.00	103855.00	2-3	145.62	28.585
31	1785.71	1	SLU	-85197.60	-117.84	-81.21	-2571250.00	-149203.00	-103960.00	2-3	325.00	30.180
32	1845.24	1	SLU	-80449.90	-365.08	-251.60	-2571250.00	-147764.00	-102796.00	2-3	325.00	31.961
33	1904.76	1	SLU	-75706.60	-519.98	-358.36	-2571250.00	-146324.00	-101625.00	2-3	325.00	33.963
34	1964.29	1	SLU	-70967.20	-596.73	-411.25	-2571250.00	-144793.00	-100523.00	2-3	325.00	36.231
35	2023.81	1	SLU	-66231.70	-609.28	-419.90	-2571250.00	-143195.00	-99463.00	2-3	325.00	38.822
36	2083.33	1	SLU	-61499.80	-571.37	-393.77	-2571250.00	-141592.00	-98400.80	2-3	325.00	41.809
37	2142.86	1	SLU	-56771.10	-496.45	-342.14	-2571250.00	-139984.00	-97335.50	2-3	325.00	45.291
38	2202.38	1	SLU	-52045.50	-397.79	-274.14	-2571250.00	-138369.00	-96267.50	2-3	325.00	49.404
39	2261.90	1	SLU	-47322.70	-288.42	-198.77	-2571250.00	-136728.00	-95211.30	2-3	325.00	54.334
40	2321.43	1	SLU	-42602.40	-181.23	-124.90	-2571250.00	-135077.00	-94154.70	2-3	325.00	60.355
41	2380.95	1	SLU	-37884.40	-88.98	-61.32	-2571250.00	-133422.00	-93096.00	2-3	325.00	67.871
42	2440.48	1	SLU	-33168.50	-24.35	-16.78	-2571250.00	-131760.00	-92035.50	2-3	325.00	77.521
43	2500.00	1	SLU	-28454.30	0.00	0.00	-2571250.00					90.364

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6475.78	-930.75	0.85	11.31	6542.33	1.00	32294.70	362088.00	32294.70	4.936
2	59.52	1	SLU	4268.64	-613.52	0.85	11.31	4312.50	1.00	32294.70	362049.00	32294.70	7.489
3	119.05	1	SLU	2370.00	-340.63	0.85	11.31	2394.35	1.00	32294.70	361732.00	32294.70	13.488
4	178.57	1	SLU	757.19	-108.83	0.85	11.31	764.97	1.00	32294.70	361416.00	32294.70	42.217
5	238.09	1	SLU	-593.02	85.23	0.85	11.31	599.11	1.00	32294.70	361101.00	32294.70	53.904
6	297.62	1	SLU	-1704.03	244.92	0.85	11.31	1721.54	1.00	32294.70	360787.00	32294.70	18.759
7	357.14	1	SLU	-2881.26	414.12	0.85	11.31	2910.87	1.00	32294.70	360474.00	32294.70	11.095
8	416.67	1	SLU	-4082.91	586.83	0.85	11.31	4124.86	1.00	32294.70	359768.00	32294.70	7.829
9	476.19	1	SLU	-4992.07	717.50	0.85	11.31	5043.37	1.00	32294.70	359064.00	32294.70	6.403
10	535.71	1	SLU	-5645.14	811.36	0.85	11.31	5703.15	1.00	32294.70	358361.00	32294.70	5.663
11	595.24	1	SLU	-6076.47	873.36	0.85	11.31	6138.91	1.00	32294.70	357659.00	32294.70	5.261
12	654.76	1	SLU	-6318.22	908.10	0.85	11.31	6383.15	1.00	32294.70	356959.00	32294.70	5.059
13	714.29	1	SLU	-6400.09	919.87	0.85	11.31	6465.85	1.00	32294.70	356260.00	32294.70	4.995
14	773.81	1	SLU	-6349.27	912.57	0.85	11.31	6414.52	1.00	32294.70	355563.00	32294.70	5.035
15	833.33	1	SLU	-6190.43	889.74	0.85	11.31	6254.04	1.00	32294.70	354867.00	32294.70	5.164
16	892.86	1	SLU	-5945.66	854.56	0.85	11.31	6006.76	1.00	32294.70	354172.00	32294.70	5.376
17	952.38	1	SLU	-5634.64	809.85	0.85	11.31	5692.54	1.00	32294.70	353478.00	32294.70	5.673
18	1011.90	1	SLU	-5274.64	758.11	0.85	11.31	5328.84	1.00	32294.70	352785.00	32294.70	6.060
19	1071.43	1	SLU	-4880.69	701.49	0.85	11.31	4930.85	1.00	32294.70	352094.00	32294.70	6.550
20	1130.95	1	SLU	-4465.75	641.85	0.85	11.31	4511.64	1.00	32294.70	351404.00	32294.70	7.158
21	1190.48	1	SLU	-4040.81	580.78	0.85	11.31	4082.33	1.00	32294.70	350714.00	32294.70	7.911
22	1250.00	1	SLU	-3615.08	519.59	0.85	11.31	3652.22	1.00	32294.70	350026.00	32294.70	8.842
23	1309.52	1	SLU	-3196.16	459.38	0.85	11.31	3229.01	1.00	32294.70	349339.00	32294.70	10.001
24	1369.05	1	SLU	-2790.24	401.04	0.85	11.31	2818.91	1.00	32294.70	348653.00	32294.70	11.457
25	1428.57	1	SLU	-2402.20	345.26	0.85	11.31	2426.88	1.00	32294.70	347967.00	32294.70	13.307
26	1488.10	1	SLU	-2035.81	292.60	0.85	11.31	2056.73	1.00	32294.70	347283.00	32294.70	15.702
27	1547.62	1	SLU	-1693.92	243.46	0.85	11.31	1711.33	1.00	32294.70	346599.00	32294.70	18.871
28	1607.14	1	SLU	-1378.54	198.13	0.85	11.31	1392.70	1.00	32294.70	345916.00	32294.70	23.189
29	1666.67	1	SLU	-1090.99	156.81	0.85	11.31	1102.20	1.00	32294.70	345234.00	32294.70	29.300
30	1726.19	1	SLU	-832.09	119.59	0.85	11.31	840.64	1.00	32294.70	344552.00	32294.70	38.417
31	1785.71	1	SLU	-602.17	86.55	0.85	11.31	608.36	1.00	32294.70	343872.00	32294.70	53.085
32	1845.24	1	SLU	-401.27	57.67	0.85	11.31	405.40	1.00	32294.70	343192.00	32294.70	79.662
33	1904.76	1	SLU	-229.18	32.94	0.85	11.31	231.53	1.00	32294.70	342512.00	32294.70	>100
34	1964.29	1	SLU	-85.51	12.29	0.85	11.31	86.39	1.00	32294.70	341833.00	32294.70	>100
35	2023.81	1	SLU	30.19	-4.34	0.85	11.31	30.50	1.00	32294.70	341155.00	32294.70	>100
36	2083.33	1	SLU	118.43	-17.02	0.85	11.31	119.65	1.00	32294.70	340477.00	32294.70	>100
37	2142.86	1	SLU	179.70	-25.83	0.85	11.31	181.54	1.00	32294.70	339800.00	32294.70	>100
38	2202.38	1	SLU	214.43	-30.82	0.85	11.31	216.63	1.00	32294.70	339123.00	32294.70	>100
39	2261.90	1	SLU	222.99	-32.05	0.85	11.31	225.28	1.00	32294.70	338447.00	32294.70	>100
40	2321.43	1	SLU	205.68	-29.56	0.85	11.31	207.79	1.00	32294.70	337770.00	32294.70	>100
41	2380.95	1	SLU	162.68	-23.38	0.85	11.31	164.35	1.00	32294.70	337095.00	32294.70	>100
42	2440.48	1	SLU	94.10	-13.53	0.85	11.31	95.07	1.00	32294.70	336419.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-157310.00	22788.80	33067.10	25.13	53.41	35.00	492.81
45	59.52	2	SLE R	-157425.00	24140.00	35027.80	25.13	53.41	36.78	516.61
46	119.05	2	SLE R	-155976.00	24972.80	36236.20	25.13	53.41	37.90	531.16
47	178.57	2	SLE R	-154532.00	25362.30	36801.30	28.27	50.27	38.42	537.91
48	238.09	2	SLE R	-153093.00	25377.70	36823.70	28.27	50.27	38.43	537.70
49	297.62	2	SLE R	-151659.00	25082.60	36395.50	28.27	50.27	37.98	531.56
50	357.14	2	SLE R	-150229.00	24510.70	35565.60	28.27	50.27	37.15	520.18
51	416.67	2	SLE R	-146594.00	23623.90	34278.90	25.13	53.41	35.83	502.07
52	476.19	2	SLE R	-142966.00	22471.20	32606.30	25.13	53.41	34.15	479.12

33	335.71	2	Sud	-123363.00	21121.80	30948.20	25.12	72.61	32.03	621.85
34	335.24	2	Sud	-122734.00	19639.00	28492.30	25.12	72.61	30.17	624.75
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
38	832.30	2	Sud	-1.7777.00	11719.10	17004.70	6.28	72.20	20.28	219.12
39	832.33	2	Sud	-1.4201.00	10234.20	14579.20	0.00	78.54	18.02	200.36
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
46	1220.33	2	Sud	-96631.10	6300.22	8333.50	0.00	78.54	11.32	171.70
47	1209.22	2	Sud	-92807.20	3501.38	5036.60	0.00	78.54	10.73	159.72
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
51	1607.14	2	Sud	-77279.40	874.47	978.68	0.00	78.54	8.72	133.16
52	1666.37	2	Sud	-7_781.70	332.36	226.66	0.00	78.54	8.16	90.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
57	1366.29	2	Sud	-34269.10	-304.63	-442.02	0.00	78.54	6.03	89.83
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
63	2261.90	2	Sud	-26962.20	-147.26	-213.65	0.00	78.54	3.12	49.76
64	2221.43	2	Sud	-22363.60	-90.32	-134.26	0.00	78.54	2.80	41.82
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
68	0.00	4	6FT	-1a.[illegible]	[illegible]	[illegible]	25.12	72.61	35.00	490.10
69	39.22	4	Sud	-137627.00	26140.00	35027.80	25.12	72.61	36.78	510.61
69	39.23	4	Sud	-133979.00	26072.80	36236.20	25.12	72.61	37.90	531.18
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
74	4_8.07	4	Sud	-146504.00	23823.30	34278.80	25.12	72.61	35.32	501.07
75	476.19	4	Sud	-142960.00	22671.20	32016.30	25.12	72.61	34.13	479.12
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80	773.81	4	Sud	-124034.00	16841.40	21233.30	15.71	62.83	23.62	339.74
81	803.33	4	Sud	-12_351.00	13214.30	18032.70	12.27	63.87	22.03	313.38
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
87	1220.33	4	Sud	-102520.00	6603.38	8249.50	0.00	78.54	14.26	201.67
88	1_30.41	4	Sud	-99971.00	5333.76	7729.61	0.00	78.54	12.90	183.01
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
93	1485.10	4	Sud	-80313.10	1533.06	2224.51	0.00	78.54	8.03	119.08
94	1347.02	4	Sud	-78704.10	1002.21	1241.20	0.00	78.54	7.37	109.24
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	1845.24	4	Sud	-6_251.30	-133.27	-270.63	0.00	78.54	5.13	70.98
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	2142.83	4	Sud	-42901.70	-213.46	-307.76	0.00	78.54	3.79	59.76
106	2202.31	4	Sud	-40322.30	-213.07	-294.60	0.00	78.54	3.46	51.67
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

129	2500.00	4	SLE Q	-22937.50	0.00	0.00	0.00	78.54	1.86	27.97

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-157310.00	33067.10	22788.80	46.00	136.36	0.50	20.00	172.80	9.42	380.76	129.33	0.04	0.01
88	59.52	4	SLE Q	-157425.00	35027.80	24140.00	46.00	136.36	0.50	20.00	164.16	12.57	453.42	162.03	0.05	0.01
89	119.05	4	SLE Q	-155976.00	36236.20	24972.80	46.00	136.36	0.50	20.00	173.34	12.57	511.05	188.59	0.05	0.02
90	178.57	4	SLE Q	-154532.00	36801.30	25362.30	46.00	136.36	0.50	20.00	178.71	12.57	544.79	204.31	0.06	0.02
91	238.09	4	SLE Q	-153093.00	36823.70	25377.70	46.00	136.36	0.50	20.00	180.89	12.57	558.49	209.70	0.06	0.02
92	297.62	4	SLE Q	-151659.00	36395.50	25082.60	46.00	136.36	0.50	20.00	180.38	12.57	555.34	206.06	0.06	0.02
93	357.14	4	SLE Q	-150229.00	35565.60	24510.70	46.00	136.36	0.50	20.00	177.42	12.57	536.70	194.47	0.06	0.02
94	416.67	4	SLE Q	-146594.00	34278.90	23623.90	46.00	136.36	0.50	20.00	174.74	12.57	519.87	181.50	0.05	0.02
95	476.19	4	SLE Q	-142966.00	32606.30	22471.20	46.00	136.36	0.50	20.00	169.38	12.57	486.21	161.50	0.05	0.01
96	535.71	4	SLE Q	-139346.00	30648.20	21121.80	46.00	136.36	0.50	20.00	161.75	12.57	438.26	137.18	0.04	0.01
97	595.24	4	SLE Q	-135734.00	28492.30	19636.00	46.00	136.36	0.50	20.00	172.44	9.42	379.06	110.96	0.03	0.01
98	654.76	4	SLE Q	-132129.00	26213.90	18065.80	46.00	136.36	0.50	20.00	191.24	6.28	311.76	84.81	0.02	0.01
99	714.29	4	SLE Q	-128531.00	23877.10	16455.30	46.00	136.36	0.50	20.00	168.28	6.28	239.64	60.15	0.02	0.01
130	0.00	3	SLE F	-157310.00	33067.10	22788.80	46.00	136.36	0.50	20.00	172.80	9.42	380.76	129.33	0.04	0.01
131	59.52	3	SLE F	-157425.00	35027.80	24140.00	46.00	136.36	0.50	20.00	164.16	12.57	453.42	162.03	0.05	0.01
132	119.05	3	SLE F	-155976.00	36236.20	24972.80	46.00	136.36	0.50	20.00	173.34	12.57	511.05	188.59	0.05	0.02
133	178.57	3	SLE F	-154532.00	36801.30	25362.30	46.00	136.36	0.50	20.00	178.71	12.57	544.79	204.31	0.06	0.02
134	238.09	3	SLE F	-153093.00	36823.70	25377.70	46.00	136.36	0.50	20.00	180.89	12.57	558.49	209.70	0.06	0.02
135	297.62	3	SLE F	-151659.00	36395.50	25082.60	46.00	136.36	0.50	20.00	180.38	12.57	555.34	206.06	0.06	0.02
136	357.14	3	SLE F	-150229.00	35565.60	24510.70	46.00	136.36	0.50	20.00	177.42	12.57	536.70	194.47	0.06	0.02
137	416.67	3	SLE F	-146594.00	34278.90	23623.90	46.00	136.36	0.50	20.00	174.74	12.57	519.87	181.50	0.05	0.02
138	476.19	3	SLE F	-142966.00	32606.30	22471.20	46.00	136.36	0.50	20.00	169.38	12.57	486.21	161.50	0.05	0.01
139	535.71	3	SLE F	-139346.00	30648.20	21121.80	46.00	136.36	0.50	20.00	161.75	12.57	438.26	137.18	0.04	0.01
140	595.24	3	SLE F	-135734.00	28492.30	19636.00	46.00	136.36	0.50	20.00	172.44	9.42	379.06	110.96	0.03	0.01
141	654.76	3	SLE F	-132129.00	26213.90	18065.80	46.00	136.36	0.50	20.00	191.24	6.28	311.76	84.81	0.02	0.01
142	714.29	3	SLE F	-128531.00	23877.10	16455.30	46.00	136.36	0.50	20.00	168.28	6.28	239.64	60.15	0.02	0.01

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
47	C.Rare - Sf min (max compr.)
48	C.Rare - Sc min (max compr.),C.Rare - Sf max (max traz.)
61	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sf min (max compr.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf max (max traz.),C.Q.Per. - Wk Max
104	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 20

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 20 (-142)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	253743.00	6222.70	-820.92	33060.30	-32330.90
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	253743.00	6222.70	-820.92	33060.30	-32330.90
2	2	SLE R	RVN	187958.00	4609.41	-608.09	24489.10	-23948.80
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	187958.00	4609.41	-608.09	24489.10	-23948.80
3	3	SLE F	RVN	187958.00	4609.41	-608.09	24489.10	-23948.80
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	187958.00	4609.41	-608.09	24489.10	-23948.80
4	4	SLE Q	RVN	187958.00	4609.41	-608.09	24489.10	-23948.80
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00

	4	SLE Q	TOT	187958.00	4609.41	-608.09	24489.10	-23948.80

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-253743.00	-6222.70	820.92	-33060.30	32330.90
2	2	SLE R	1	-187958.00	-4609.41	608.09	-24489.10	23948.80
3	3	SLE F	1	-187958.00	-4609.41	608.09	-24489.10	23948.80
4	4	SLE Q	1	-187958.00	-4609.41	608.09	-24489.10	23948.80

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-253743.00	32914.80	32188.60	-253743.00	172789.00	168767.00	2-3	135.62	5.246
2	59.52	1	SLU	-253187.00	35149.70	34374.30	-253187.00	172666.00	168641.00	2-3	135.62	4.909
3	119.05	1	SLU	-250401.00	36591.80	35784.50	-250401.00	172053.00	168010.00	2-3	135.62	4.699
4	178.57	1	SLU	-247622.00	37354.00	36529.90	-247622.00	171439.00	167378.00	2-3	135.62	4.586
5	238.09	1	SLU	-244852.00	37540.80	36712.60	-244852.00	170824.00	166745.00	2-3	135.62	4.546
6	297.62	1	SLU	-242088.00	37248.10	36426.40	-242088.00	170211.00	166113.00	2-3	135.62	4.565
7	357.14	1	SLU	-239333.00	36525.90	35720.10	-239333.00	169599.00	165483.00	2-3	135.62	4.638
8	416.67	1	SLU	-233433.00	35312.40	34533.40	-233433.00	168281.00	164123.00	2-3	135.62	4.759
9	476.19	1	SLU	-227546.00	33681.00	32938.00	-227546.00	166963.00	162763.00	2-3	135.62	4.950
10	535.71	1	SLU	-221670.00	31737.30	31037.20	-221670.00	165640.00	161395.00	2-3	135.62	5.210
11	595.24	1	SLU	-215807.00	29573.50	28921.10	-215807.00	164250.00	160057.00	2-3	135.62	5.544
12	654.76	1	SLU	-209955.00	27269.10	26667.50	-209955.00	162748.00	158769.00	2-3	135.62	5.961
13	714.29	1	SLU	-204115.00	24891.90	24342.80	-204115.00	161239.00	157477.00	2-3	135.62	6.473
14	773.81	1	SLU	-198285.00	22498.90	22002.50	-198285.00	159727.00	156183.00	2-3	135.62	7.099
15	833.33	1	SLU	-192466.00	20136.90	19692.70	-192466.00	158203.00	154884.00	2-3	135.62	7.861
16	892.86	1	SLU	-186658.00	17844.20	17450.50	-186658.00	156677.00	153584.00	2-3	135.62	8.790
17	952.38	1	SLU	-180859.00	15650.60	15305.40	-180859.00	155143.00	152281.00	2-3	135.62	9.931
18	1011.90	1	SLU	-175070.00	13579.20	13279.70	-175070.00	155278.00	149288.00	2-3	136.25	11.341
19	1071.43	1	SLU	-169291.00	11646.60	11389.70	-169291.00	153742.00	147949.00	2-3	136.25	13.098
20	1130.95	1	SLU	-163520.00	9864.18	9646.57	-163520.00	152200.00	146607.00	2-3	136.25	15.317
21	1190.48	1	SLU	-157759.00	8238.48	8056.73	-2571250.00	150652.00	145263.00	2-3	136.25	16.299
22	1250.00	1	SLU	-152005.00	6772.27	6622.87	-2571250.00	149125.00	143865.00	2-3	136.25	16.916
23	1309.52	1	SLU	-146260.00	5464.99	5344.43	-2571250.00	147655.00	142324.00	2-3	136.25	17.580
24	1369.05	1	SLU	-140523.00	4313.41	4218.25	-2571250.00	146183.00	140780.00	2-3	136.25	18.298
25	1428.57	1	SLU	-134794.00	3312.08	3239.02	-2571250.00	144705.00	139226.00	2-3	136.25	19.076
26	1488.10	1	SLU	-129071.00	2453.89	2399.75	-2571250.00	143224.00	137666.00	2-3	136.25	19.921
27	1547.62	1	SLU	-123356.00	1730.36	1692.19	-2571250.00	140210.00	137560.00	2-3	135.62	20.844
28	1607.14	1	SLU	-117647.00	1132.07	1107.10	-2571250.00	138727.00	135980.00	2-3	135.62	21.856
29	1666.67	1	SLU	-111944.00	648.91	634.60	-2571250.00	137241.00	134396.00	2-3	135.62	22.969
30	1726.19	1	SLU	-106248.00	270.31	264.35	-2571250.00	135750.00	132801.00	2-3	135.62	24.201
31	1785.71	1	SLU	-100557.00	-14.56	-14.23	-2571250.00	-134145.00	-131466.00	2-3	315.62	25.570
32	1845.24	1	SLU	-94871.30	-216.60	-211.83	-2571250.00	-132472.00	-130050.00	2-3	315.62	27.102
33	1904.76	1	SLU	-89190.90	-346.76	-339.11	-2571250.00	-132260.00	-127155.00	2-3	316.25	28.829
34	1964.29	1	SLU	-83515.30	-415.85	-406.67	-2571250.00	-130572.00	-125737.00	2-3	316.25	30.788
35	2023.81	1	SLU	-77844.10	-434.55	-424.96	-2571250.00	-128872.00	-124318.00	2-3	316.25	33.031
36	2083.33	1	SLU	-72177.20	-413.39	-404.27	-2571250.00	-127214.00	-122809.00	2-3	316.25	35.624
37	2142.86	1	SLU	-66514.10	-362.72	-354.72	-2571250.00	-125609.00	-121175.00	2-3	316.25	38.657
38	2202.38	1	SLU	-60854.60	-292.70	-286.25	-2571250.00	-123999.00	-119533.00	2-3	316.25	42.252
39	2261.90	1	SLU	-55198.30	-213.37	-208.67	-2571250.00	-122385.00	-117887.00	2-3	316.25	46.582
40	2321.43	1	SLU	-49545.10	-134.64	-131.67	-2571250.00	-120764.00	-116229.00	2-3	316.25	51.897
41	2380.95	1	SLU	-43894.40	-66.33	-64.87	-2571250.00	-119153.00	-114534.00	2-3	316.25	58.578
42	2440.48	1	SLU	-38246.20	-18.20	-17.80	-2571250.00	-116232.00	-114077.00	2-3	315.62	67.229
43	2500.00	1	SLU	-32599.90	0.00	0.00	-2571250.00					78.873

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6222.70	-820.92	0.85	11.31	6276.62	1.00	32294.70	368014.00	32294.70	5.145
2	59.52	1	SLU	4237.53	-559.03	0.85	11.31	4274.25	1.00	32294.70	367934.00	32294.70	7.556
3	119.05	1	SLU	2525.33	-333.15	0.85	11.31	2547.21	1.00	32294.70	367535.00	32294.70	12.678
4	178.57	1	SLU	1066.59	-140.71	0.85	11.31	1075.83	1.00	32294.70	367137.00	32294.70	30.018
5	238.09	1	SLU	-158.79	20.95	0.85	11.31	160.17	1.00	32294.70	366740.00	32294.70	>100
6	297.62	1	SLU	-1171.15	154.50	0.85	11.31	1181.30	1.00	32294.70	366345.00	32294.70	27.338
7	357.14	1	SLU	-2249.99	296.83	0.85	11.31	2269.49	1.00	32294.70	365950.00	32294.70	14.230
8	416.67	1	SLU	-3357.42	442.92	0.85	11.31	3386.51	1.00	32294.70	365105.00	32294.70	9.536
9	476.19	1	SLU	-4202.67	554.43	0.85	11.31	4239.08	1.00	32294.70	364262.00	32294.70	7.618
10	535.71	1	SLU	-4817.80	635.58	0.85	11.31	4859.54	1.00	32294.70	363420.00	32294.70	6.646
11	595.24	1	SLU	-5233.20	690.38	0.85	11.31	5278.54	1.00	32294.70	362580.00	32294.70	6.118
12	654.76	1	SLU	-5477.33	722.59	0.85	11.31	5524.79	1.00	32294.70	361742.00	32294.70	5.845
13	714.29	1	SLU	-5576.58	735.68	0.85	11.31	5624.90	1.00	32294.70	360905.00	32294.70	5.741

14	773.81	1	SLU	-5555.14	732.86	0.85	11.31	5603.27	1.00	32294.70	360070.00	32294.70	5.764
15	833.33	1	SLU	-5435.00	717.01	0.85	11.31	5482.09	1.00	32294.70	359237.00	32294.70	5.891
16	892.86	1	SLU	-5235.93	690.75	0.85	11.31	5281.29	1.00	32294.70	358405.00	32294.70	6.115
17	952.38	1	SLU	-4975.52	656.39	0.85	11.31	5018.63	1.00	32294.70	357574.00	32294.70	6.435
18	1011.90	1	SLU	-4669.29	615.99	0.85	11.31	4709.75	1.00	32294.70	356745.00	32294.70	6.857
19	1071.43	1	SLU	-4330.78	571.33	0.85	11.31	4368.31	1.00	32294.70	355917.00	32294.70	7.393
20	1130.95	1	SLU	-3971.67	523.96	0.85	11.31	4006.08	1.00	32294.70	355091.00	32294.70	8.061
21	1190.48	1	SLU	-3601.89	475.18	0.85	11.31	3633.10	1.00	32294.70	354265.00	32294.70	8.889
22	1250.00	1	SLU	-3229.83	426.09	0.85	11.31	3257.81	1.00	32294.70	353441.00	32294.70	9.913
23	1309.52	1	SLU	-2862.41	377.62	0.85	11.31	2887.21	1.00	32294.70	352618.00	32294.70	11.185
24	1369.05	1	SLU	-2505.28	330.51	0.85	11.31	2526.99	1.00	32294.70	351797.00	32294.70	12.780
25	1428.57	1	SLU	-2162.95	285.35	0.85	11.31	2181.69	1.00	32294.70	350976.00	32294.70	14.803
26	1488.10	1	SLU	-1838.93	242.60	0.85	11.31	1854.86	1.00	32294.70	350156.00	32294.70	17.411
27	1547.62	1	SLU	-1535.86	202.62	0.85	11.31	1549.17	1.00	32294.70	349337.00	32294.70	20.846
28	1607.14	1	SLU	-1255.66	165.65	0.85	11.31	1266.54	1.00	32294.70	348520.00	32294.70	25.498
29	1666.67	1	SLU	-999.63	131.88	0.85	11.31	1008.30	1.00	32294.70	347703.00	32294.70	32.029
30	1726.19	1	SLU	-768.59	101.39	0.85	11.31	775.25	1.00	32294.70	346887.00	32294.70	41.657
31	1785.71	1	SLU	-562.92	74.26	0.85	11.31	567.79	1.00	32294.70	346072.00	32294.70	56.877
32	1845.24	1	SLU	-382.73	50.49	0.85	11.31	386.05	1.00	32294.70	345257.00	32294.70	83.655
33	1904.76	1	SLU	-227.90	30.07	0.85	11.31	229.87	1.00	32294.70	344444.00	32294.70	>100
34	1964.29	1	SLU	-98.14	12.95	0.85	11.31	98.99	1.00	32294.70	343631.00	32294.70	>100
35	2023.81	1	SLU	6.91	-0.91	0.85	11.31	6.97	1.00	32294.70	342818.00	32294.70	>100
36	2083.33	1	SLU	87.65	-11.56	0.85	11.31	88.41	1.00	32294.70	342007.00	32294.70	>100
37	2142.86	1	SLU	144.50	-19.06	0.85	11.31	145.75	1.00	32294.70	341196.00	32294.70	>100
38	2202.38	1	SLU	177.83	-23.46	0.85	11.31	179.37	1.00	32294.70	340385.00	32294.70	>100
39	2261.90	1	SLU	187.94	-24.79	0.85	11.31	189.57	1.00	32294.70	339575.00	32294.70	>100
40	2321.43	1	SLU	175.08	-23.10	0.85	11.31	176.60	1.00	32294.70	338765.00	32294.70	>100
41	2380.95	1	SLU	139.41	-18.39	0.85	11.31	140.62	1.00	32294.70	337955.00	32294.70	>100
42	2440.48	1	SLU	81.04	-10.69	0.85	11.31	81.74	1.00	32294.70	337146.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-187958.00	23843.40	24381.30	6.28	72.26	32.80	469.82
45	59.52	2	SLE R	-187859.00	25462.40	26036.80	12.57	65.97	34.09	487.41
46	119.05	2	SLE R	-185985.00	26507.00	27105.00	15.71	62.83	34.83	497.32
47	178.57	2	SLE R	-184117.00	27059.20	27669.60	15.71	62.83	35.18	501.93
48	238.09	2	SLE R	-182255.00	27194.50	27808.00	18.85	59.69	35.19	501.73
49	297.62	2	SLE R	-180399.00	26982.50	27591.20	18.85	59.69	34.88	497.40
50	357.14	2	SLE R	-178548.00	26459.30	27056.20	18.85	59.69	34.31	489.35
51	416.67	2	SLE R	-174193.00	25580.30	26157.30	15.71	62.83	33.27	474.63
52	476.19	2	SLE R	-169847.00	24398.50	24948.90	15.71	62.83	31.97	456.40
53	535.71	2	SLE R	-165510.00	22990.50	23509.10	12.57	65.97	30.49	435.70
54	595.24	2	SLE R	-161182.00	21423.00	21906.30	12.57	65.97	28.90	413.49
55	654.76	2	SLE R	-156863.00	19753.70	20199.30	6.28	72.26	27.26	390.55
56	714.29	2	SLE R	-152552.00	18031.70	18438.50	0.00	78.54	25.61	367.48
57	773.81	2	SLE R	-148250.00	16298.20	16665.80	0.00	78.54	23.99	344.69
58	833.33	2	SLE R	-143955.00	14587.20	14916.20	0.00	78.54	22.39	322.25
59	892.86	2	SLE R	-139668.00	12926.30	13217.90	0.00	78.54	20.82	300.31
60	952.38	2	SLE R	-135389.00	11337.30	11593.10	0.00	78.54	19.31	279.11
61	1011.90	2	SLE R	-131117.00	9836.78	10058.70	0.00	78.54	17.86	258.81
62	1071.43	2	SLE R	-126852.00	8436.82	8627.14	0.00	78.54	16.49	239.53
63	1130.95	2	SLE R	-122593.00	7145.61	7306.80	0.00	78.54	15.20	221.35
64	1190.48	2	SLE R	-118341.00	5967.95	6102.58	0.00	78.54	13.99	204.32
65	1250.00	2	SLE R	-114096.00	4905.83	5016.49	0.00	78.54	12.87	188.46
66	1309.52	2	SLE R	-109857.00	3958.84	4048.14	0.00	78.54	11.83	173.76
67	1369.05	2	SLE R	-105623.00	3124.63	3195.12	0.00	78.54	10.87	160.21
68	1428.57	2	SLE R	-101396.00	2399.27	2453.40	0.00	78.54	10.00	147.76
69	1488.10	2	SLE R	-97173.40	1777.59	1817.69	0.00	78.54	9.20	136.36
70	1547.62	2	SLE R	-92956.40	1253.47	1281.75	0.00	78.54	8.47	125.94
71	1607.14	2	SLE R	-88744.30	820.07	838.57	0.00	78.54	7.81	116.45
72	1666.67	2	SLE R	-84537.00	470.07	480.67	0.00	78.54	7.22	107.80
73	1726.19	2	SLE R	-80334.20	195.81	200.23	0.00	78.54	6.67	99.92
74	1785.71	2	SLE R	-76135.70	-10.54	-10.78	0.00	78.54	6.20	92.93
75	1845.24	2	SLE R	-71941.30	-156.91	-160.45	0.00	78.54	5.96	89.29
76	1904.76	2	SLE R	-67750.80	-251.19	-256.86	0.00	78.54	5.69	85.12
77	1964.29	2	SLE R	-63563.90	-301.24	-308.03	0.00	78.54	5.39	80.52
78	2023.81	2	SLE R	-59380.40	-314.79	-321.89	0.00	78.54	5.06	75.56
79	2083.33	2	SLE R	-55200.10	-299.46	-306.22	0.00	78.54	4.71	70.31
80	2142.86	2	SLE R	-51022.80	-262.75	-268.68	0.00	78.54	4.34	64.85
81	2202.38	2	SLE R	-46848.10	-212.03	-216.82	0.00	78.54	3.96	59.25
82	2261.90	2	SLE R	-42676.10	-154.57	-158.05	0.00	78.54	3.58	53.58
83	2321.43	2	SLE R	-38506.20	-97.53	-99.73	0.00	78.54	3.20	47.93
84	2380.95	2	SLE R	-34338.50	-48.05	-49.13	0.00	78.54	2.83	42.35
85	2440.48	2	SLE R	-30172.60	-13.19	-13.48	0.00	78.54	2.46	36.92
86	2500.00	2	SLE R	-26008.30	0.00	0.00	0.00	78.54	2.11	31.71
87	0.00	4	SLE Q	-187958.00	23843.40	24381.30	6.28	72.26	32.80	469.82

88	59.52	4	SLE Q	-187859.00	25462.40	26036.80	12.57	65.97	34.09	487.41
89	119.05	4	SLE Q	-185985.00	26507.00	27105.00	15.71	62.83	34.83	497.32
90	178.57	4	SLE Q	-184117.00	27059.20	27669.60	15.71	62.83	35.18	501.93
91	238.09	4	SLE Q	-182255.00	27194.50	27808.00	18.85	59.69	35.19	501.73
92	297.62	4	SLE Q	-180399.00	26982.50	27591.20	18.85	59.69	34.88	497.40
93	357.14	4	SLE Q	-178548.00	26459.30	27056.20	18.85	59.69	34.31	489.35
94	416.67	4	SLE Q	-174193.00	25580.30	26157.30	15.71	62.83	33.27	474.63
95	476.19	4	SLE Q	-169847.00	24398.50	24948.90	15.71	62.83	31.97	456.40
96	535.71	4	SLE Q	-165510.00	22990.50	23509.10	12.57	65.97	30.49	435.70
97	595.24	4	SLE Q	-161182.00	21423.00	21906.30	12.57	65.97	28.90	413.49
98	654.76	4	SLE Q	-156863.00	19753.70	20199.30	6.28	72.26	27.26	390.55
99	714.29	4	SLE Q	-152552.00	18031.70	18438.50	0.00	78.54	25.61	367.48
100	773.81	4	SLE Q	-148250.00	16298.20	16665.80	0.00	78.54	23.99	344.69
101	833.33	4	SLE Q	-143955.00	14587.20	14916.20	0.00	78.54	22.39	322.25
102	892.86	4	SLE Q	-139668.00	12926.30	13217.90	0.00	78.54	20.82	300.31
103	952.38	4	SLE Q	-135389.00	11337.30	11593.10	0.00	78.54	19.31	279.11
104	1011.90	4	SLE Q	-131117.00	9836.78	10058.70	0.00	78.54	17.86	258.81
105	1071.43	4	SLE Q	-126852.00	8436.82	8627.14	0.00	78.54	16.49	239.53
106	1130.95	4	SLE Q	-122593.00	7145.61	7306.80	0.00	78.54	15.20	221.35
107	1190.48	4	SLE Q	-118341.00	5967.95	6102.58	0.00	78.54	13.99	204.32
108	1250.00	4	SLE Q	-114096.00	4905.83	5016.49	0.00	78.54	12.87	188.46
109	1309.52	4	SLE Q	-109857.00	3958.84	4048.14	0.00	78.54	11.83	173.76
110	1369.05	4	SLE Q	-105623.00	3124.63	3195.12	0.00	78.54	10.87	160.21
111	1428.57	4	SLE Q	-101396.00	2399.27	2453.40	0.00	78.54	10.00	147.76
112	1488.10	4	SLE Q	-97173.40	1777.59	1817.69	0.00	78.54	9.20	136.36
113	1547.62	4	SLE Q	-92956.40	1253.47	1281.75	0.00	78.54	8.47	125.94
114	1607.14	4	SLE Q	-88744.30	820.07	838.57	0.00	78.54	7.81	116.45
115	1666.67	4	SLE Q	-84537.00	470.07	480.67	0.00	78.54	7.22	107.80
116	1726.19	4	SLE Q	-80334.20	195.81	200.23	0.00	78.54	6.67	99.92
117	1785.71	4	SLE Q	-76135.70	-10.54	-10.78	0.00	78.54	6.20	92.93
118	1845.24	4	SLE Q	-71941.30	-156.91	-160.45	0.00	78.54	5.96	89.29
119	1904.76	4	SLE Q	-67750.80	-251.19	-256.86	0.00	78.54	5.69	85.12
120	1964.29	4	SLE Q	-63563.90	-301.24	-308.03	0.00	78.54	5.39	80.52
121	2023.81	4	SLE Q	-59380.40	-314.79	-321.89	0.00	78.54	5.06	75.56
122	2083.33	4	SLE Q	-55200.10	-299.46	-306.22	0.00	78.54	4.71	70.31
123	2142.86	4	SLE Q	-51022.80	-262.75	-268.68	0.00	78.54	4.34	64.85
124	2202.38	4	SLE Q	-46848.10	-212.03	-216.82	0.00	78.54	3.96	59.25
125	2261.90	4	SLE Q	-42676.10	-154.57	-158.05	0.00	78.54	3.58	53.58
126	2321.43	4	SLE Q	-38506.20	-97.53	-99.73	0.00	78.54	3.20	47.93
127	2380.95	4	SLE Q	-34338.50	-48.05	-49.13	0.00	78.54	2.83	42.35
128	2440.48	4	SLE Q	-30172.60	-13.19	-13.48	0.00	78.54	2.46	36.92
129	2500.00	4	SLE Q	-26008.30	0.00	0.00	0.00	78.54	2.11	31.71

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_{sl} <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
90	178.57	4	SLE Q	-184117.00	27669.60	27059.20	46.00	136.36	0.50	20.00	211.44	3.14	187.61	57.42	0.02	0.01
91	238.09	4	SLE Q	-182255.00	27808.00	27194.50	46.00	136.36	0.50	20.00	156.65	6.28	203.11	62.53	0.02	0.00
92	297.62	4	SLE Q	-180399.00	27591.20	26982.50	46.00	136.36	0.50	20.00	157.45	6.28	205.61	62.81	0.02	0.00
93	357.14	4	SLE Q	-178548.00	27056.20	26459.30	46.00	136.36	0.50	20.00	216.80	3.14	196.03	58.71	0.02	0.01
94	416.67	4	SLE Q	-174193.00	26157.30	25580.30	46.00	136.36	0.50	20.00	210.93	3.14	186.81	54.05	0.02	0.01
133	178.57	3	SLE F	-184117.00	27669.60	27059.20	46.00	136.36	0.50	20.00	211.44	3.14	187.61	57.42	0.02	0.01
134	238.09	3	SLE F	-182255.00	27808.00	27194.50	46.00	136.36	0.50	20.00	156.65	6.28	203.11	62.53	0.02	0.00
135	297.62	3	SLE F	-180399.00	27591.20	26982.50	46.00	136.36	0.50	20.00	157.45	6.28	205.61	62.81	0.02	0.00
136	357.14	3	SLE F	-178548.00	27056.20	26459.30	46.00	136.36	0.50	20.00	216.80	3.14	196.03	58.71	0.02	0.01
137	416.67	3	SLE F	-174193.00	26157.30	25580.30	46.00	136.36	0.50	20.00	210.93	3.14	186.81	54.05	0.02	0.01

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
47	C.Rare - Sf min (max compr.)
48	C.Rare - Sc min (max compr.)
49	C.Rare - Sf max (max traz.)
57	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sf min (max compr.)
91	C.Q.Per. - Sc min (max compr.)
92	C.Q.Per. - Sf max (max traz.)
93	C.Q.Per. - Wk Max
100	C.Q.Per. - Sc max (min. compr.)
136	C.Freq - Wk Max

Palo n. 21

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>

60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 21 (-154)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	287981.00	6007.07	-640.81	20770.30	-28669.60
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	287981.00	6007.07	-640.81	20770.30	-28669.60
2	2	SLE R	RVN	213319.00	4449.68	-474.67	15385.40	-21236.70
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	213319.00	4449.68	-474.67	15385.40	-21236.70
3	3	SLE F	RVN	213319.00	4449.68	-474.67	15385.40	-21236.70
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	213319.00	4449.68	-474.67	15385.40	-21236.70
4	4	SLE Q	RVN	213319.00	4449.68	-474.67	15385.40	-21236.70
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	213319.00	4449.68	-474.67	15385.40	-21236.70

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-287981.00	-6007.07	640.81	-20770.30	28669.60
2	2	SLE R	1	-213319.00	-4449.68	474.67	-15385.40	21236.70
3	3	SLE F	1	-213319.00	-4449.68	474.67	-15385.40	21236.70
4	4	SLE Q	1	-213319.00	-4449.68	474.67	-15385.40	21236.70

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-287981.00	20667.70	28527.90	-287981.00	149329.00	203596.00	2-3	126.25	7.167
2	59.52	1	SLU	-287187.00	22470.30	31016.10	-287187.00	149192.00	203408.00	2-3	126.25	6.586
3	119.05	1	SLU	-283926.00	23713.00	32731.40	-283926.00	148633.00	202626.00	2-3	126.25	6.217
4	178.57	1	SLU	-280674.00	24473.00	33780.50	-280674.00	148079.00	201839.00	2-3	126.25	6.001
5	238.09	1	SLU	-277430.00	24822.20	34262.50	-277430.00	147524.00	201050.00	2-3	126.25	5.894
6	297.62	1	SLU	-274195.00	24826.60	34268.60	-274195.00	146969.00	200261.00	2-3	126.25	5.870
7	357.14	1	SLU	-270969.00	24519.40	33844.50	-270969.00	146321.00	199499.00	2-3	126.25	5.920
8	416.67	1	SLU	-264265.00	23852.30	32923.70	-264265.00	144989.00	197830.00	2-3	126.25	6.033
9	476.19	1	SLU	-257575.00	22875.20	31575.00	-257575.00	143705.00	196070.00	2-3	126.25	6.235
10	535.71	1	SLU	-250899.00	21662.20	29900.70	-250899.00	142415.00	194301.00	2-3	126.25	6.525
11	595.24	1	SLU	-244237.00	20278.40	27990.60	-244237.00	141116.00	192521.00	2-3	126.25	6.906
12	654.76	1	SLU	-237587.00	18780.00	25922.30	-237587.00	139814.00	190735.00	2-3	126.25	7.388
13	714.29	1	SLU	-230951.00	17215.30	23762.60	-230951.00	138505.00	188941.00	2-3	126.25	7.984
14	773.81	1	SLU	-224326.00	15625.20	21567.70	-224326.00	137189.00	187136.00	2-3	126.25	8.712
15	833.33	1	SLU	-217714.00	14043.60	19384.50	-217714.00	135869.00	185325.00	2-3	126.25	9.600
16	892.86	1	SLU	-211113.00	12498.10	17251.40	-211113.00	134543.00	183507.00	2-3	126.25	10.681
17	952.38	1	SLU	-204524.00	11011.00	15198.70	-204524.00	133210.00	181678.00	2-3	126.25	12.003
18	1011.90	1	SLU	-197946.00	9599.42	13250.20	-2571250.00	131873.00	179844.00	2-3	126.25	12.990
19	1071.43	1	SLU	-191378.00	8276.07	11423.60	-2571250.00	130530.00	178002.00	2-3	126.25	13.435
20	1130.95	1	SLU	-184821.00	7049.93	9731.14	-2571250.00	129181.00	176151.00	2-3	126.25	13.912
21	1190.48	1	SLU	-178273.00	5926.66	8180.66	-2571250.00	127827.00	174295.00	2-3	126.25	14.423
22	1250.00	1	SLU	-171735.00	4909.10	6776.10	-2571250.00	126469.00	172431.00	2-3	126.25	14.972
23	1309.52	1	SLU	-165207.00	3997.73	5518.13	-2571250.00	125104.00	170559.00	2-3	126.25	15.564
24	1369.05	1	SLU	-158687.00	3191.10	4404.73	-2571250.00	123735.00	168681.00	2-3	126.25	16.203
25	1428.57	1	SLU	-152176.00	2486.15	3431.67	-2571250.00	122361.00	166796.00	2-3	126.25	16.897
26	1488.10	1	SLU	-145672.00	1878.54	2592.99	-2571250.00	120982.00	164904.00	2-3	126.25	17.651
27	1547.62	1	SLU	-139177.00	1362.98	1881.35	-2571250.00	119599.00	163007.00	2-3	126.25	18.475
28	1607.14	1	SLU	-132689.00	933.40	1288.39	-2571250.00	118211.00	161102.00	2-3	126.25	19.378
29	1666.67	1	SLU	-126208.00	583.19	804.99	-2571250.00	116818.00	159192.00	2-3	126.25	20.373
30	1726.19	1	SLU	-119734.00	305.39	421.54	-2571250.00	115422.00	157276.00	2-3	126.25	21.475
31	1785.71	1	SLU	-113267.00	92.80	128.09	-2571250.00	114020.00	155353.00	2-3	126.25	22.701
32	1845.24	1	SLU	-106805.00	-61.91	-85.46	-2571250.00	-112400.00	-153273.00	2-3	306.25	24.074

33	1904.76	1	SLU	-100349.00	-166.10	-229.27	-2571250.00	-110927.00	-151253.00	2-3	306.25	25.623
34	1964.29	1	SLU	-93899.00	-227.09	-313.46	-2571250.00	-109449.00	-149227.00	2-3	306.25	27.383
35	2023.81	1	SLU	-87453.60	-252.15	-348.05	-2571250.00	-107965.00	-147191.00	2-3	306.25	29.401
36	2083.33	1	SLU	-81012.90	-248.45	-342.94	-2571250.00	-106474.00	-145146.00	2-3	306.25	31.739
37	2142.86	1	SLU	-74576.60	-223.06	-307.90	-2571250.00	-104980.00	-143095.00	2-3	306.25	34.478
38	2202.38	1	SLU	-68144.30	-182.95	-252.52	-2571250.00	-103479.00	-141035.00	2-3	306.25	37.732
39	2261.90	1	SLU	-61715.60	-134.98	-186.32	-2571250.00	-101974.00	-138969.00	2-3	306.25	41.663
40	2321.43	1	SLU	-55290.20	-85.98	-118.67	-2571250.00	-100465.00	-136897.00	2-3	306.25	46.505
41	2380.95	1	SLU	-48867.80	-42.67	-58.90	-2571250.00	-98949.80	-134816.00	2-3	306.25	52.616
42	2440.48	1	SLU	-42448.00	-11.78	-16.26	-2571250.00	-97431.30	-132730.00	2-3	306.25	60.574
43	2500.00	1	SLU	-36030.50	0.00	0.00	-2571250.00					71.363

Stato limite ultimo – Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6007.07	-640.81	0.85	11.31	6041.15	1.00	32294.70	372918.00	32294.70	5.346
2	59.52	1	SLU	4297.61	-458.45	0.85	11.31	4321.99	1.00	32294.70	372805.00	32294.70	7.472
3	119.05	1	SLU	2815.86	-300.38	0.85	11.31	2831.84	1.00	32294.70	372337.00	32294.70	11.404
4	178.57	1	SLU	1546.46	-164.97	0.85	11.31	1555.24	1.00	32294.70	371872.00	32294.70	20.765
5	238.09	1	SLU	473.42	-50.50	0.85	11.31	476.10	1.00	32294.70	371407.00	32294.70	67.832
6	297.62	1	SLU	-419.66	44.77	0.85	11.31	422.04	1.00	32294.70	370944.00	32294.70	76.521
7	357.14	1	SLU	-1381.23	147.34	0.85	11.31	1389.07	1.00	32294.70	370481.00	32294.70	23.249
8	416.67	1	SLU	-2378.24	253.70	0.85	11.31	2391.73	1.00	32294.70	369521.00	32294.70	13.503
9	476.19	1	SLU	-3150.92	336.13	0.85	11.31	3168.80	1.00	32294.70	368563.00	32294.70	10.191
10	535.71	1	SLU	-3725.82	397.45	0.85	11.31	3746.96	1.00	32294.70	367607.00	32294.70	8.619
11	595.24	1	SLU	-4128.22	440.38	0.85	11.31	4151.64	1.00	32294.70	366652.00	32294.70	7.779
12	654.76	1	SLU	-4381.93	467.44	0.85	11.31	4406.79	1.00	32294.70	365700.00	32294.70	7.328
13	714.29	1	SLU	-4509.12	481.01	0.85	11.31	4534.70	1.00	32294.70	364749.00	32294.70	7.122
14	773.81	1	SLU	-4530.19	483.26	0.85	11.31	4555.89	1.00	32294.70	363800.00	32294.70	7.089
15	833.33	1	SLU	-4463.76	476.17	0.85	11.31	4489.09	1.00	32294.70	362853.00	32294.70	7.194
16	892.86	1	SLU	-4326.66	461.55	0.85	11.31	4351.21	1.00	32294.70	361908.00	32294.70	7.422
17	952.38	1	SLU	-4133.91	440.99	0.85	11.31	4157.37	1.00	32294.70	360964.00	32294.70	7.768
18	1011.90	1	SLU	-3898.84	415.91	0.85	11.31	3920.96	1.00	32294.70	360022.00	32294.70	8.236
19	1071.43	1	SLU	-3633.10	387.56	0.85	11.31	3653.71	1.00	32294.70	359081.00	32294.70	8.839
20	1130.95	1	SLU	-3346.81	357.02	0.85	11.31	3365.80	1.00	32294.70	358142.00	32294.70	9.595
21	1190.48	1	SLU	-3048.65	325.22	0.85	11.31	3065.95	1.00	32294.70	357204.00	32294.70	10.533
22	1250.00	1	SLU	-2745.94	292.92	0.85	11.31	2761.52	1.00	32294.70	356267.00	32294.70	11.695
23	1309.52	1	SLU	-2444.80	260.80	0.85	11.31	2458.67	1.00	32294.70	355332.00	32294.70	13.135
24	1369.05	1	SLU	-2150.25	229.38	0.85	11.31	2162.45	1.00	32294.70	354398.00	32294.70	14.934
25	1428.57	1	SLU	-1866.36	199.09	0.85	11.31	1876.95	1.00	32294.70	353466.00	32294.70	17.206
26	1488.10	1	SLU	-1596.32	170.29	0.85	11.31	1605.38	1.00	32294.70	352534.00	32294.70	20.117
27	1547.62	1	SLU	-1342.57	143.22	0.85	11.31	1350.19	1.00	32294.70	351604.00	32294.70	23.919
28	1607.14	1	SLU	-1106.94	118.08	0.85	11.31	1113.23	1.00	32294.70	350674.00	32294.70	29.010
29	1666.67	1	SLU	-890.71	95.02	0.85	11.31	895.76	1.00	32294.70	349746.00	32294.70	36.053
30	1726.19	1	SLU	-694.72	74.11	0.85	11.31	698.66	1.00	32294.70	348819.00	32294.70	46.224
31	1785.71	1	SLU	-519.44	55.41	0.85	11.31	522.39	1.00	32294.70	347892.00	32294.70	61.821
32	1845.24	1	SLU	-365.10	38.95	0.85	11.31	367.18	1.00	32294.70	346967.00	32294.70	87.954
33	1904.76	1	SLU	-231.70	24.72	0.85	11.31	233.01	1.00	32294.70	346042.00	32294.70	>100
34	1964.29	1	SLU	-119.09	12.70	0.85	11.31	119.76	1.00	32294.70	345118.00	32294.70	>100
35	2023.81	1	SLU	-27.03	2.88	0.85	11.31	27.19	1.00	32294.70	344195.00	32294.70	>100
36	2083.33	1	SLU	44.75	-4.77	0.85	11.31	45.00	1.00	32294.70	343272.00	32294.70	>100
37	2142.86	1	SLU	96.55	-10.30	0.85	11.31	97.09	1.00	32294.70	342350.00	32294.70	>100
38	2202.38	1	SLU	128.64	-13.72	0.85	11.31	129.37	1.00	32294.70	341429.00	32294.70	>100
39	2261.90	1	SLU	141.27	-15.07	0.85	11.31	142.07	1.00	32294.70	340508.00	32294.70	>100
40	2321.43	1	SLU	134.62	-14.36	0.85	11.31	135.38	1.00	32294.70	339588.00	32294.70	>100
41	2380.95	1	SLU	108.81	-11.61	0.85	11.31	109.42	1.00	32294.70	338668.00	32294.70	>100
42	2440.48	1	SLU	63.93	-6.82	0.85	11.31	64.29	1.00	32294.70	337748.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-213319.00	21131.80	15309.40	0.00	78.54	30.85	442.36
45	59.52	2	SLE R	-213044.00	22974.90	16644.70	0.00	78.54	32.00	457.92
46	119.05	2	SLE R	-210819.00	24245.50	17565.20	0.00	78.54	32.63	466.17
47	178.57	2	SLE R	-208600.00	25022.60	18128.20	0.00	78.54	32.95	470.17
48	238.09	2	SLE R	-206387.00	25379.60	18386.80	0.00	78.54	33.00	470.55
49	297.62	2	SLE R	-204181.00	25384.10	18390.10	0.00	78.54	32.82	467.90
50	357.14	2	SLE R	-201982.00	25070.00	18162.50	0.00	78.54	32.44	462.50
51	416.67	2	SLE R	-197031.00	24387.90	17668.40	0.00	78.54	31.60	450.59
52	476.19	2	SLE R	-192091.00	23388.90	16944.60	0.00	78.54	30.56	435.94
53	535.71	2	SLE R	-187161.00	22148.70	16046.10	0.00	78.54	29.37	419.24
54	595.24	2	SLE R	-182241.00	20733.70	15021.00	0.00	78.54	28.07	401.03
55	654.76	2	SLE R	-177331.00	19201.70	13911.10	0.00	78.54	26.69	381.83
56	714.29	2	SLE R	-172431.00	17601.90	12752.10	0.00	78.54	25.27	362.06
57	773.81	2	SLE R	-167539.00	15976.10	11574.20	0.00	78.54	23.83	342.07
58	833.33	2	SLE R	-162657.00	14358.90	10402.60	0.00	78.54	22.40	322.17
59	892.86	2	SLE R	-157784.00	12778.80	9257.87	0.00	78.54	20.99	302.60

60	952.38	2	SLE R	-152919.00	11258.30	8156.32	0.00	78.54	19.63	283.55
61	1011.90	2	SLE R	-148062.00	9814.99	7110.68	0.00	78.54	18.31	265.18
62	1071.43	2	SLE R	-143213.00	8461.92	6130.42	0.00	78.54	17.05	247.60
63	1130.95	2	SLE R	-138371.00	7208.25	5222.17	0.00	78.54	15.85	230.88
64	1190.48	2	SLE R	-133538.00	6059.75	4390.12	0.00	78.54	14.73	215.08
65	1250.00	2	SLE R	-128711.00	5019.34	3636.37	0.00	78.54	13.67	200.22
66	1309.52	2	SLE R	-123891.00	4087.51	2961.28	0.00	78.54	12.68	186.31
67	1369.05	2	SLE R	-119078.00	3262.76	2363.78	0.00	78.54	11.76	173.33
68	1428.57	2	SLE R	-114271.00	2541.98	1841.59	0.00	78.54	10.91	161.25
69	1488.10	2	SLE R	-109471.00	1920.73	1391.52	0.00	78.54	10.13	150.04
70	1547.62	2	SLE R	-104676.00	1393.59	1009.62	0.00	78.54	9.40	139.65
71	1607.14	2	SLE R	-99886.80	954.36	691.41	0.00	78.54	8.73	130.02
72	1666.67	2	SLE R	-95103.00	596.29	432.00	0.00	78.54	8.11	121.10
73	1726.19	2	SLE R	-90324.30	312.25	226.22	0.00	78.54	7.54	112.82
74	1785.71	2	SLE R	-85550.50	94.88	68.74	0.00	78.54	7.01	105.12
75	1845.24	2	SLE R	-80781.30	-63.30	-45.86	0.00	78.54	6.61	99.04
76	1904.76	2	SLE R	-76016.40	-169.83	-123.04	0.00	78.54	6.29	94.16
77	1964.29	2	SLE R	-71255.50	-232.19	-168.22	0.00	78.54	5.94	88.90
78	2023.81	2	SLE R	-66498.50	-257.82	-186.78	0.00	78.54	5.57	83.32
79	2083.33	2	SLE R	-61745.10	-254.03	-184.04	0.00	78.54	5.18	77.49
80	2142.86	2	SLE R	-56995.00	-228.07	-165.23	0.00	78.54	4.78	71.47
81	2202.38	2	SLE R	-52247.90	-187.06	-135.52	0.00	78.54	4.37	65.33
82	2261.90	2	SLE R	-47503.60	-138.01	-99.99	0.00	78.54	3.95	59.12
83	2321.43	2	SLE R	-42761.90	-87.91	-63.69	0.00	78.54	3.53	52.90
84	2380.95	2	SLE R	-38022.50	-43.63	-31.61	0.00	78.54	3.12	46.74
85	2440.48	2	SLE R	-33285.10	-12.05	-8.73	0.00	78.54	2.71	40.69
86	2500.00	2	SLE R	-28549.50	0.00	0.00	0.00	78.54	2.32	34.81
87	0.00	4	SLE Q	-213319.00	21131.80	15309.40	0.00	78.54	30.85	442.36
88	59.52	4	SLE Q	-213044.00	22974.90	16644.70	0.00	78.54	32.00	457.92
89	119.05	4	SLE Q	-210819.00	24245.50	17565.20	0.00	78.54	32.63	466.17
90	178.57	4	SLE Q	-208600.00	25022.60	18128.20	0.00	78.54	32.95	470.17
91	238.09	4	SLE Q	-206387.00	25379.60	18386.80	0.00	78.54	33.00	470.55
92	297.62	4	SLE Q	-204181.00	25384.10	18390.10	0.00	78.54	32.82	467.90
93	357.14	4	SLE Q	-201982.00	25070.00	18162.50	0.00	78.54	32.44	462.50
94	416.67	4	SLE Q	-197031.00	24387.90	17668.40	0.00	78.54	31.60	450.59
95	476.19	4	SLE Q	-192091.00	23388.90	16944.60	0.00	78.54	30.56	435.94
96	535.71	4	SLE Q	-187161.00	22148.70	16046.10	0.00	78.54	29.37	419.24
97	595.24	4	SLE Q	-182241.00	20733.70	15021.00	0.00	78.54	28.07	401.03
98	654.76	4	SLE Q	-177331.00	19201.70	13911.10	0.00	78.54	26.69	381.83
99	714.29	4	SLE Q	-172431.00	17601.90	12752.10	0.00	78.54	25.27	362.06
100	773.81	4	SLE Q	-167539.00	15976.10	11574.20	0.00	78.54	23.83	342.07
101	833.33	4	SLE Q	-162657.00	14358.90	10402.60	0.00	78.54	22.40	322.17
102	892.86	4	SLE Q	-157784.00	12778.80	9257.87	0.00	78.54	20.99	302.60
103	952.38	4	SLE Q	-152919.00	11258.30	8156.32	0.00	78.54	19.63	283.55
104	1011.90	4	SLE Q	-148062.00	9814.99	7110.68	0.00	78.54	18.31	265.18
105	1071.43	4	SLE Q	-143213.00	8461.92	6130.42	0.00	78.54	17.05	247.60
106	1130.95	4	SLE Q	-138371.00	7208.25	5222.17	0.00	78.54	15.85	230.88
107	1190.48	4	SLE Q	-133538.00	6059.75	4390.12	0.00	78.54	14.73	215.08
108	1250.00	4	SLE Q	-128711.00	5019.34	3636.37	0.00	78.54	13.67	200.22
109	1309.52	4	SLE Q	-123891.00	4087.51	2961.28	0.00	78.54	12.68	186.31
110	1369.05	4	SLE Q	-119078.00	3262.76	2363.78	0.00	78.54	11.76	173.33
111	1428.57	4	SLE Q	-114271.00	2541.98	1841.59	0.00	78.54	10.91	161.25
112	1488.10	4	SLE Q	-109471.00	1920.73	1391.52	0.00	78.54	10.13	150.04
113	1547.62	4	SLE Q	-104676.00	1393.59	1009.62	0.00	78.54	9.40	139.65
114	1607.14	4	SLE Q	-99886.80	954.36	691.41	0.00	78.54	8.73	130.02
115	1666.67	4	SLE Q	-95103.00	596.29	432.00	0.00	78.54	8.11	121.10
116	1726.19	4	SLE Q	-90324.30	312.25	226.22	0.00	78.54	7.54	112.82
117	1785.71	4	SLE Q	-85550.50	94.88	68.74	0.00	78.54	7.01	105.12
118	1845.24	4	SLE Q	-80781.30	-63.30	-45.86	0.00	78.54	6.61	99.04
119	1904.76	4	SLE Q	-76016.40	-169.83	-123.04	0.00	78.54	6.29	94.16
120	1964.29	4	SLE Q	-71255.50	-232.19	-168.22	0.00	78.54	5.94	88.90
121	2023.81	4	SLE Q	-66498.50	-257.82	-186.78	0.00	78.54	5.57	83.32
122	2083.33	4	SLE Q	-61745.10	-254.03	-184.04	0.00	78.54	5.18	77.49
123	2142.86	4	SLE Q	-56995.00	-228.07	-165.23	0.00	78.54	4.78	71.47
124	2202.38	4	SLE Q	-52247.90	-187.06	-135.52	0.00	78.54	4.37	65.33
125	2261.90	4	SLE Q	-47503.60	-138.01	-99.99	0.00	78.54	3.95	59.12
126	2321.43	4	SLE Q	-42761.90	-87.91	-63.69	0.00	78.54	3.53	52.90
127	2380.95	4	SLE Q	-38022.50	-43.63	-31.61	0.00	78.54	3.12	46.74
128	2440.48	4	SLE Q	-33285.10	-12.05	-8.73	0.00	78.54	2.71	40.69
129	2500.00	4	SLE Q	-28549.50	0.00	0.00	0.00	78.54	2.32	34.81

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
6	SLU N cost - min. sic.
48	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
49	C.Rare - Sc max (min. compr.)

51	C.Rare - Sf max (max traz.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
92	C.Q.Per. - Sc max (min. compr.)
94	C.Q.Per. - Sf max (max traz.)

Palo n. 22

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 22 (-162)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	312560.00	5856.31	-408.23	10688.80	-19675.30
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	312560.00	5856.31	-408.23	10688.80	-19675.30
2	2	SLE R	RVN	231526.00	4338.00	-302.39	7917.60	-14574.30
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	231526.00	4338.00	-302.39	7917.60	-14574.30
3	3	SLE F	RVN	231526.00	4338.00	-302.39	7917.60	-14574.30
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	231526.00	4338.00	-302.39	7917.60	-14574.30
4	4	SLE Q	RVN	231526.00	4338.00	-302.39	7917.60	-14574.30
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	231526.00	4338.00	-302.39	7917.60	-14574.30

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-312560.00	-5856.31	408.23	-10688.80	19675.30
2	2	SLE R	1	-231526.00	-4338.00	302.39	-7917.60	14574.30
3	3	SLE F	1	-231526.00	-4338.00	302.39	-7917.60	14574.30
4	4	SLE Q	1	-231526.00	-4338.00	302.39	-7917.60	14574.30

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-312560.00	10620.80	19550.20	-2571250.00	124920.00	227607.00	2-3	118.75	8.226
2	59.52	1	SLU	-311596.00	12086.30	22247.70	-2571250.00	124781.00	227353.00	2-3	118.75	8.252
3	119.05	1	SLU	-307993.00	13180.20	24261.30	-2571250.00	124259.00	226406.00	2-3	118.75	8.348
4	178.57	1	SLU	-304401.00	13950.80	25679.80	-2571250.00	123739.00	225461.00	2-3	118.75	8.447
5	238.09	1	SLU	-300818.00	14443.30	26586.40	-300818.00	123216.00	224513.00	2-3	118.75	8.464
6	297.62	1	SLU	-297244.00	14699.70	27058.40	-297244.00	122692.00	223564.00	2-3	118.75	8.282
7	357.14	1	SLU	-293680.00	14739.40	27131.40	-293680.00	122170.00	222617.00	2-3	118.75	8.224
8	416.67	1	SLU	-286399.00	14524.60	26736.10	-286399.00	121093.00	220665.00	2-3	118.75	8.273
9	476.19	1	SLU	-279133.00	14086.40	25929.40	-279133.00	120012.00	218706.00	2-3	118.75	8.454
10	535.71	1	SLU	-271882.00	13473.20	24800.70	-271882.00	118925.00	216739.00	2-3	118.75	8.759
11	595.24	1	SLU	-264646.00	12728.10	23429.10	-264646.00	117832.00	214760.00	2-3	118.75	9.187
12	654.76	1	SLU	-257424.00	11888.60	21883.90	-257424.00	116735.00	212773.00	2-3	118.75	9.745
13	714.29	1	SLU	-250216.00	10987.30	20224.90	-2571250.00	115633.00	210777.00	2-3	118.75	10.276
14	773.81	1	SLU	-243021.00	10052.10	18503.30	-2571250.00	114526.00	208773.00	2-3	118.75	10.580
15	833.33	1	SLU	-235839.00	9106.23	16762.20	-2571250.00	113415.00	206758.00	2-3	118.75	10.902
16	892.86	1	SLU	-228670.00	8169.22	15037.40	-2571250.00	112300.00	204735.00	2-3	118.75	11.244
17	952.38	1	SLU	-221513.00	7256.84	13358.00	-2571250.00	111182.00	202706.00	2-3	118.75	11.608
18	1011.90	1	SLU	-214368.00	6381.63	11746.90	-2571250.00	110059.00	200666.00	2-3	118.75	11.995
19	1071.43	1	SLU	-207235.00	5553.25	10222.10	-2571250.00	108931.00	198617.00	2-3	118.75	12.407
20	1130.95	1	SLU	-200113.00	4778.81	8796.57	-2571250.00	107802.00	196563.00	2-3	118.75	12.849
21	1190.48	1	SLU	-193001.00	4063.21	7479.33	-2571250.00	106668.00	194500.00	2-3	118.75	13.322
22	1250.00	1	SLU	-185900.00	3409.44	6275.91	-2571250.00	105553.00	192393.00	2-3	118.75	13.831

23	1309.52	1	SLU	-178808.00	2818.89	5188.86	-2571250.00	104337.00	190177.00	2-3	118.75	14.380
24	1369.05	1	SLU	-171727.00	2291.58	4218.21	-2571250.00	103114.00	187947.00	2-3	118.75	14.973
25	1428.57	1	SLU	-164654.00	1826.41	3361.96	-2571250.00	101883.00	185702.00	2-3	118.75	15.616
26	1488.10	1	SLU	-157590.00	1421.37	2616.38	-2571250.00	100646.00	183444.00	2-3	118.75	16.316
27	1547.62	1	SLU	-150535.00	1073.73	1976.46	-2571250.00	99402.70	181176.00	2-3	118.75	17.081
28	1607.14	1	SLU	-143488.00	780.18	1436.11	-2571250.00	98154.00	178896.00	2-3	118.75	17.920
29	1666.67	1	SLU	-136449.00	536.99	988.46	-2571250.00	96897.30	176600.00	2-3	118.75	18.844
30	1726.19	1	SLU	-129416.00	340.13	626.09	-2571250.00	95634.80	174293.00	2-3	118.75	19.868
31	1785.71	1	SLU	-122391.00	185.34	341.16	-2571250.00	94363.70	171977.00	2-3	118.75	21.008
32	1845.24	1	SLU	-115373.00	68.24	125.61	-2571250.00	93068.90	169628.00	2-3	118.75	22.287
33	1904.76	1	SLU	-108360.00	-15.63	-28.77	-2571250.00	-91885.80	-167506.00	2-3	298.75	23.729
34	1964.29	1	SLU	-101353.00	-70.76	-130.25	-2571250.00	-90642.00	-165150.00	2-3	298.75	25.369
35	2023.81	1	SLU	-94352.30	-101.62	-187.05	-2571250.00	-89315.70	-162725.00	2-3	298.75	27.252
36	2083.33	1	SLU	-87356.10	-112.66	-207.38	-2571250.00	-87981.60	-160286.00	2-3	298.75	29.434
37	2142.86	1	SLU	-80364.70	-108.29	-199.33	-2571250.00	-86640.40	-157835.00	2-3	298.75	31.995
38	2202.38	1	SLU	-73377.50	-92.87	-170.95	-2571250.00	-85292.20	-155370.00	2-3	298.75	35.041
39	2261.90	1	SLU	-66394.30	-70.72	-130.18	-2571250.00	-83936.50	-152893.00	2-3	298.75	38.727
40	2321.43	1	SLU	-59414.70	-46.12	-84.89	-2571250.00	-82571.80	-150401.00	2-3	298.75	43.276
41	2380.95	1	SLU	-52438.20	-23.31	-42.91	-2571250.00	-81200.30	-147897.00	2-3	298.75	49.034
42	2440.48	1	SLU	-45464.60	-6.53	-12.02	-2571250.00	-79821.90	-145382.00	2-3	298.75	56.555
43	2500.00	1	SLU	-38493.40	0.00	0.00	-2571250.00					66.797

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	5856.31	-408.23	0.85	11.31	5870.52	1.00	32294.70	376439.00	32294.70	5.501
2	59.52	1	SLU	4463.64	-311.15	0.85	11.31	4474.47	1.00	32294.70	376301.00	32294.70	7.218
3	119.05	1	SLU	3245.58	-226.24	0.85	11.31	3253.45	1.00	32294.70	375785.00	32294.70	9.926
4	178.57	1	SLU	2191.76	-152.78	0.85	11.31	2197.08	1.00	32294.70	375270.00	32294.70	14.699
5	238.09	1	SLU	1291.07	-90.00	0.85	11.31	1294.20	1.00	32294.70	374757.00	32294.70	24.953
6	297.62	1	SLU	531.87	-37.08	0.85	11.31	533.16	1.00	32294.70	374245.00	32294.70	60.572
7	357.14	1	SLU	-299.84	20.90	0.85	11.31	300.57	1.00	32294.70	373735.00	32294.70	>100
8	416.67	1	SLU	-1176.46	82.01	0.85	11.31	1179.32	1.00	32294.70	372692.00	32294.70	27.384
9	476.19	1	SLU	-1872.46	130.53	0.85	11.31	1877.01	1.00	32294.70	371651.00	32294.70	17.205
10	535.71	1	SLU	-2407.89	167.85	0.85	11.31	2413.73	1.00	32294.70	370612.00	32294.70	13.380
11	595.24	1	SLU	-2802.05	195.33	0.85	11.31	2808.85	1.00	32294.70	369576.00	32294.70	11.498
12	654.76	1	SLU	-3073.27	214.23	0.85	11.31	3080.73	1.00	32294.70	368541.00	32294.70	10.483
13	714.29	1	SLU	-3238.79	225.77	0.85	11.31	3246.65	1.00	32294.70	367509.00	32294.70	9.947
14	773.81	1	SLU	-3314.61	231.06	0.85	11.31	3322.66	1.00	32294.70	366478.00	32294.70	9.720
15	833.33	1	SLU	-3315.44	231.11	0.85	11.31	3323.49	1.00	32294.70	365450.00	32294.70	9.717
16	892.86	1	SLU	-3254.68	226.88	0.85	11.31	3262.58	1.00	32294.70	364423.00	32294.70	9.899
17	952.38	1	SLU	-3144.39	219.19	0.85	11.31	3152.02	1.00	32294.70	363398.00	32294.70	10.246
18	1011.90	1	SLU	-2995.35	208.80	0.85	11.31	3002.61	1.00	32294.70	362374.00	32294.70	10.755
19	1071.43	1	SLU	-2817.08	196.37	0.85	11.31	2823.91	1.00	32294.70	361352.00	32294.70	11.436
20	1130.95	1	SLU	-2617.91	182.49	0.85	11.31	2624.26	1.00	32294.70	360332.00	32294.70	12.306
21	1190.48	1	SLU	-2405.05	167.65	0.85	11.31	2410.89	1.00	32294.70	359313.00	32294.70	13.395
22	1250.00	1	SLU	-2184.66	152.29	0.85	11.31	2189.97	1.00	32294.70	358296.00	32294.70	14.747
23	1309.52	1	SLU	-1961.96	136.76	0.85	11.31	1966.72	1.00	32294.70	357280.00	32294.70	16.421
24	1369.05	1	SLU	-1741.27	121.38	0.85	11.31	1745.50	1.00	32294.70	356266.00	32294.70	18.502
25	1428.57	1	SLU	-1526.16	106.39	0.85	11.31	1529.86	1.00	32294.70	355253.00	32294.70	21.110
26	1488.10	1	SLU	-1319.48	91.98	0.85	11.31	1322.68	1.00	32294.70	354241.00	32294.70	24.416
27	1547.62	1	SLU	-1123.49	78.32	0.85	11.31	1126.21	1.00	32294.70	353231.00	32294.70	28.675
28	1607.14	1	SLU	-939.91	65.52	0.85	11.31	942.19	1.00	32294.70	352221.00	32294.70	34.276
29	1666.67	1	SLU	-770.03	53.68	0.85	11.31	771.90	1.00	32294.70	351213.00	32294.70	41.838
30	1726.19	1	SLU	-614.75	42.85	0.85	11.31	616.25	1.00	32294.70	350206.00	32294.70	52.406
31	1785.71	1	SLU	-474.68	33.09	0.85	11.31	475.83	1.00	32294.70	349199.00	32294.70	67.870
32	1845.24	1	SLU	-350.16	24.41	0.85	11.31	351.01	1.00	32294.70	348194.00	32294.70	92.004
33	1904.76	1	SLU	-241.37	16.83	0.85	11.31	241.96	1.00	32294.70	347190.00	32294.70	>100
34	1964.29	1	SLU	-148.33	10.34	0.85	11.31	148.69	1.00	32294.70	346186.00	32294.70	>100
35	2023.81	1	SLU	-70.96	4.95	0.85	11.31	71.13	1.00	32294.70	345183.00	32294.70	>100
36	2083.33	1	SLU	-9.15	0.64	0.85	11.31	9.17	1.00	32294.70	344181.00	32294.70	>100
37	2142.86	1	SLU	37.27	-2.60	0.85	11.31	37.37	1.00	32294.70	343179.00	32294.70	>100
38	2202.38	1	SLU	68.46	-4.77	0.85	11.31	68.63	1.00	32294.70	342179.00	32294.70	>100
39	2261.90	1	SLU	84.57	-5.90	0.85	11.31	84.77	1.00	32294.70	341178.00	32294.70	>100
40	2321.43	1	SLU	85.71	-5.97	0.85	11.31	85.91	1.00	32294.70	340179.00	32294.70	>100
41	2380.95	1	SLU	71.96	-5.02	0.85	11.31	72.14	1.00	32294.70	339179.00	32294.70	>100
42	2440.48	1	SLU	43.38	-3.02	0.85	11.31	43.49	1.00	32294.70	338180.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-231526.00	14481.60	7867.25	0.00	78.54	27.28	398.30
45	59.52	2	SLE R	-231125.00	16479.80	8952.79	0.00	78.54	28.41	413.82
46	119.05	2	SLE R	-228647.00	17971.30	9763.09	0.00	78.54	29.08	422.74
47	178.57	2	SLE R	-226176.00	19022.10	10333.90	0.00	78.54	29.49	428.15
48	238.09	2	SLE R	-223712.00	19693.60	10698.70	0.00	78.54	29.69	430.52
49	297.62	2	SLE R	-221255.00	20043.20	10888.70	0.00	78.54	29.69	430.33

30	237.14	2	Sud	-21890.00	20997.40	19418.10	0.00	78.54	20.22	427.77
31	416.07	2	Sud	-21627.00	19814.30	19729.00	0.00	78.54	28.61	418.87
32	478.14	1	EST	-20846.00	19026.80	19497.80	0.00	78.54	28.78	407.37
33	439.01	1	EST	-20704.00	18902.80	19480.14	0.00	78.54	27.47	444.30
34	445.24	2	EST	-19749.00	17954.40	18420.14	0.00	78.54	26.19	389.46
35	464.26	2	EST	-19705.00	16010.70	8890.17	0.00	78.54	25.09	363.44
36	716.29	2	Sud	-186701.00	16951.40	8138.77	0.00	78.54	23.82	347.65
37	773.31	2	Sud	-18_387.00	13710.10	7443.85	0.00	78.54	22.73	331.85
38	838.33	1	EST	-17608.00	12716.10	6791.85	0.00	78.54	21.56	314.76
39	896.36	1	EST	-17078.00	11716.80	6417.17	0.00	78.54	20.58	299.78
40	943.38	2	EST	-16_630.00	9894.10	5376.66	0.00	78.54	19.73	287.36
41	1017.40	2	EST	-16078.00	8971.66	4877.74	0.00	78.54	18.17	265.06
42	1071.43	2	Sud	-154856.00	7571.36	4112.52	0.00	78.54	17.02	248.39
43	1_20.45	2	Sud	-140609.00	6511.38	3539.80	0.00	78.54	15.97	234.72
44	1180.48	1	EST	-13777.00	5542.77	3009.79	0.00	78.54	14.48	212.10
45	1230.50	1	EST	-13306.00	4841.80	2632.57	0.00	78.54	14.03	205.98
46	1309.52	2	EST	-12_966.00	3847.10	2090.07	0.00	78.54	13.13	194.11
47	1348.55	2	EST	-12_372.00	3274.10	1769.17	0.00	78.54	12.57	181.44
48	1423.57	2	Sud	-123511.00	2690.36	1332.80	0.00	78.54	11.48	171.36
49	1483.10	2	Sud	-118209.00	1931.06	1032.87	0.00	78.54	10.73	159.78
50	1547.62	1	EST	-11308.00	1441.05	724.38	0.00	78.54	10.03	148.67
51	1607.64	1	EST	-10788.00	1044.38	477.97	0.00	78.54	9.08	140.08
52	1646.67	2	EST	-10468.00	892.14	293.77	0.00	78.54	8.53	131.02
53	1726.19	2	EST	-9_248.70	468.27	257.95	0.00	78.54	8.00	122.54
54	1785.71	2	Sud	-82309.40	221.71	137.29	0.00	78.54	7.03	114.37
55	1845.24	1	EST	-8_20.00	40.05	90.56	0.00	78.54	6.14	106.97
56	1887.26	1	EST	-8_90.70	21.37	71.58	0.00	78.54	5.61	100.09
57	1946.28	2	EST	-7_72.20	-96.28	-52.47	0.00	78.54	5.30	94.78
58	2027.31	2	EST	-7_60.10	-178.26	-52.57	0.00	78.54	5.90	88.47
59	2083.33	2	Sud	-66443.80	-113.61	-30.65	0.00	78.54	5.48	82.03
60	2142.35	2	Sud	-62_92.40	-147.68	-30.21	0.00	78.54	5.07	77.89
61	2202.38	1	EST	-6_60.70	-20.68	98.79	0.00	78.54	4.67	69.77
62	2261.40	1	EST	-6_96.70	-57.89	-54.79	0.00	78.54	4.20	62.97
63	2321.42	2	EST	-6_87.10	-61.08	-54.76	0.00	78.54	4.04	56.76
64	2380.44	2	EST	-60660.70	-91.38	-17.77	0.00	78.54	3.82	49.04
65	2440.48	2	Sud	-27518.60	-1.30	-4.86	0.00	78.54	2.10	41.28
66	2500.50	2	Sud	-20373.30	0.00	0.00	0.00	78.54	2.47	37.03
67	0.00	1	EST	-2_5.00	-1_1.60	-0.05	0.00	78.54	0.78	0.00
68	59.52	1	EST	-2_1.00	-1_2.80	8.79	0.00	78.54	0.87	7.80
69	118.54	2	EST	-2_0.60	-1_1.10	9.01	0.00	78.54	0.78	15.58
70	178.57	2	EST	-2_1.70	-1_2.10	10.79	0.00	78.54	0.84	23.38
71	238.59	4	Sud	-22_12.00	-1_3.60	-1.30	0.00	78.54	0.00	23.38
72	297.62	4	Sud	-22_25.00	-1_3.60	-1.30	0.00	78.54	0.00	23.38
73	357.64	1	EST	-2_80.00	-1_0.70	-1.18	0.00	78.54	0.00	23.38
74	416.67	1	EST	-2_34.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
75	476.19	2	EST	-2_06.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
76	535.21	2	EST	-2_04.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
77	595.24	4	Sud	-197359.00	-1_3.60	-1.30	0.00	78.54	0.00	23.38
78	654.76	4	Sud	-192921.00	-1_3.60	-1.30	0.00	78.54	0.00	23.38
79	714.29	1	EST	-18_01.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
80	773.81	1	EST	-18_82.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
81	833.33	2	EST	-17_08.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
82	892.36	2	EST	-17_09.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
83	952.38	4	Sud	-167503.00	9894.80	5273.66	0.00	78.54	19.03	211.00
84	1011.90	4	Sud	-160220.00	8701.46	4727.16	0.00	78.54	18.11	201.00
85	1071.43	1	EST	-15_90.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
86	1130.45	1	EST	-15_89.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
87	1190.48	2	EST	-14_22.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
88	1250.00	2	EST	-13_09.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
89	1309.52	4	Sud	-133983.00	3843.60	2038.07	0.00	78.54	13.12	194.13
90	1369.05	4	Sud	-128737.00	3124.60	1697.47	0.00	78.54	12.03	181.00
91	1428.57	1	EST	-12_80.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
92	1488.10	1	EST	-12_89.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
93	1547.62	2	EST	-11_96.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
94	1607.14	2	EST	-10_86.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
95	1666.67	4	Sud	-102681.00	731.10	397.77	0.00	78.54	8.77	131.07
96	1726.19	4	Sud	-97695.20	603.77	311.05	0.00	78.54	8.10	122.30
97	1785.71	1	EST	-9_80.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
98	1845.24	2	EST	-8_77.00	-1_0.60	-1.00	0.00	78.54	0.00	23.38
99	1904.76	2	EST	-8_96.20	-1_0.60	-1.00	0.00	78.54	0.00	23.38
100	1964.29	4	Sud	-76777.40	-96.48	-52.61	0.00	78.54	6.30	94.05
101	2023.81	4	Sud	-7_609.60	-131.36	-77.27	0.00	78.54	5.90	88.41
102	2083.33	1	EST	-6_70.80	-1_1.60	-1.00	0.00	78.54	0.00	23.38
103	2142.86	1	EST	-6_82.70	-1_1.60	-1.00	0.00	78.54	0.00	23.38
104	2202.38	2	EST	-6_78.20	-1_1.60	-1.00	0.00	78.54	0.00	23.38
105	2261.90	2	EST	-6_69.60	-1_1.60	-1.00	0.00	78.54	0.00	23.38

126	2321.43	4	SLE Q	-45817.10	-62.88	-34.16	0.00	78.54	3.76	56.36
127	2380.95	4	SLE Q	-40667.30	-31.78	-17.27	0.00	78.54	3.32	49.84
128	2440.48	4	SLE Q	-35519.60	-8.90	-4.84	0.00	78.54	2.89	43.38
129	2500.00	4	SLE Q	-30373.90	0.00	0.00	0.00	78.54	2.47	37.03

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
7	SLU N cost - min. sic.
48	C.Rare - Sf min (max compr.)
49	C.Rare - Sc min (max compr.)
86	C.Rare - Sc max (min. compr.),C.Rare - Sf max (max traz.)
91	C.Q.Per. - Sf min (max compr.)
92	C.Q.Per. - Sc min (max compr.)
129	C.Q.Per. - Sc max (min. compr.),C.Q.Per. - Sf max (max traz.)

Palo n. 23

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 23 (-166)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	325273.00	5774.99	-137.89	4780.05	-6966.63
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	325273.00	5774.99	-137.89	4780.05	-6966.63
2	2	SLE R	RVN	240943.00	4277.77	-102.14	3540.78	-5160.46
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	240943.00	4277.77	-102.14	3540.78	-5160.46
3	3	SLE F	RVN	240943.00	4277.77	-102.14	3540.78	-5160.46
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	240943.00	4277.77	-102.14	3540.78	-5160.46
4	4	SLE Q	RVN	240943.00	4277.77	-102.14	3540.78	-5160.46
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	240943.00	4277.77	-102.14	3540.78	-5160.46

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-325273.00	-5774.99	137.89	-4780.05	6966.63
2	2	SLE R	1	-240943.00	-4277.77	102.14	-3540.78	5160.46
3	3	SLE F	1	-240943.00	-4277.77	102.14	-3540.78	5160.46
4	4	SLE Q	1	-240943.00	-4277.77	102.14	-3540.78	5160.46

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-325273.00	4718.47	6876.88	-2571250.00	148613.00	217313.00	2-3	124.38	7.905
2	59.52	1	SLU	-324221.00	6481.42	9446.27	-2571250.00	148441.00	217070.00	2-3	124.38	7.931
3	119.05	1	SLU	-320442.00	7906.39	11523.10	-2571250.00	147821.00	216196.00	2-3	124.38	8.024
4	178.57	1	SLU	-316674.00	9032.49	13164.30	-2571250.00	147185.00	215322.00	2-3	124.38	8.120
5	238.09	1	SLU	-312915.00	9896.97	14424.20	-2571250.00	146544.00	214450.00	2-3	124.38	8.217
6	297.62	1	SLU	-309166.00	10535.00	15354.10	-2571250.00	145902.00	213578.00	2-3	124.38	8.317
7	357.14	1	SLU	-305427.00	10960.10	15973.60	-2571250.00	145259.00	212704.00	2-3	124.38	8.419
8	416.67	1	SLU	-297848.00	11128.70	16219.40	-2571250.00	143949.00	210926.00	2-3	124.38	8.633
9	476.19	1	SLU	-290284.00	11065.70	16127.60	-2571250.00	145043.00	207487.00	2-3	125.00	8.858
10	535.71	1	SLU	-282736.00	10814.20	15761.00	-2571250.00	143725.00	205677.00	2-3	125.00	9.094
11	595.24	1	SLU	-275203.00	10413.10	15176.50	-2571250.00	140244.00	205149.00	2-3	124.38	9.343

12	654.76	1	SLU	-267685.00	9896.94	14424.20	-2571250.00	139033.00	203154.00	2-3	124.38	9.606
13	714.29	1	SLU	-260181.00	9296.07	13548.40	-2571250.00	137816.00	201149.00	2-3	124.38	9.883
14	773.81	1	SLU	-252691.00	8636.94	12587.80	-2571250.00	136595.00	199129.00	2-3	124.38	10.175
15	833.33	1	SLU	-245214.00	7942.30	11575.40	-2571250.00	135195.00	197142.00	2-3	124.38	10.486
16	892.86	1	SLU	-237751.00	7231.43	10539.40	-2571250.00	133751.00	195135.00	2-3	124.38	10.815
17	952.38	1	SLU	-230301.00	6520.49	9503.21	-2571250.00	132309.00	193102.00	2-3	124.38	11.165
18	1011.90	1	SLU	-222863.00	5822.73	8486.26	-2571250.00	130857.00	191055.00	2-3	124.38	11.537
19	1071.43	1	SLU	-215437.00	5148.79	7504.05	-2571250.00	129397.00	188998.00	2-3	124.38	11.935
20	1130.95	1	SLU	-208022.00	4507.04	6568.74	-2571250.00	127931.00	186933.00	2-3	124.38	12.361
21	1190.48	1	SLU	-200618.00	3903.76	5689.49	-2571250.00	126457.00	184856.00	2-3	124.38	12.817
22	1250.00	1	SLU	-193226.00	3343.44	4872.86	-2571250.00	124973.00	182767.00	2-3	124.38	13.307
23	1309.52	1	SLU	-185844.00	2829.03	4123.14	-2571250.00	123482.00	180670.00	2-3	124.38	13.836
24	1369.05	1	SLU	-178471.00	2362.15	3442.68	-2571250.00	121985.00	178563.00	2-3	124.38	14.407
25	1428.57	1	SLU	-171108.00	1943.26	2832.19	-2571250.00	120480.00	176446.00	2-3	124.38	15.027
26	1488.10	1	SLU	-163755.00	1571.93	2290.99	-2571250.00	118967.00	174318.00	2-3	124.38	15.702
27	1547.62	1	SLU	-156410.00	1246.92	1817.31	-2571250.00	119396.00	170811.00	2-3	125.00	16.439
28	1607.14	1	SLU	-149074.00	966.38	1408.43	-2571250.00	117862.00	168672.00	2-3	125.00	17.248
29	1666.67	1	SLU	-141745.00	727.95	1060.94	-2571250.00	116321.00	166523.00	2-3	125.00	18.140
30	1726.19	1	SLU	-134424.00	528.91	770.85	-2571250.00	114774.00	164365.00	2-3	125.00	19.128
31	1785.71	1	SLU	-127111.00	366.22	533.75	-2571250.00	113221.00	162199.00	2-3	125.00	20.228
32	1845.24	1	SLU	-119804.00	236.66	344.92	-2571250.00	111663.00	160026.00	2-3	125.00	21.462
33	1904.76	1	SLU	-112504.00	136.85	199.45	-2571250.00	110097.00	157843.00	2-3	125.00	22.855
34	1964.29	1	SLU	-105209.00	63.31	92.27	-2571250.00	108672.00	155468.00	2-3	125.00	24.439
35	2023.81	1	SLU	-97920.50	12.52	18.24	-2571250.00	105567.00	154155.00	2-3	124.38	26.259
36	2083.33	1	SLU	-90637.00	-19.08	-27.81	-2571250.00	-103642.00	-151818.00	2-3	304.38	28.369
37	2142.86	1	SLU	-83358.50	-35.04	-51.07	-2571250.00	-101991.00	-149495.00	2-3	304.38	30.846
38	2202.38	1	SLU	-76084.40	-38.90	-56.70	-2571250.00	-102007.00	-145977.00	2-3	305.00	33.795
39	2261.90	1	SLU	-68814.30	-34.21	-49.86	-2571250.00	-100328.00	-143640.00	2-3	305.00	37.365
40	2321.43	1	SLU	-61548.00	-24.48	-35.67	-2571250.00	-98642.60	-141296.00	2-3	305.00	41.776
41	2380.95	1	SLU	-54285.00	-13.20	-19.24	-2571250.00	-96949.40	-138943.00	2-3	305.00	47.366
42	2440.48	1	SLU	-47024.80	-3.88	-5.66	-2571250.00	-95247.00	-136581.00	2-3	305.00	54.678
43	2500.00	1	SLU	-39767.20	0.00	0.00	-2571250.00					64.657

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	5774.99	-137.89	0.85	11.31	5776.64	1.00	32294.70	378260.00	32294.70	5.591
2	59.52	1	SLU	4712.07	-112.51	0.85	11.31	4713.41	1.00	32294.70	378109.00	32294.70	6.852
3	119.05	1	SLU	3767.63	-89.96	0.85	11.31	3768.70	1.00	32294.70	377568.00	32294.70	8.569
4	178.57	1	SLU	2936.67	-70.12	0.85	11.31	2937.50	1.00	32294.70	377028.00	32294.70	10.994
5	238.09	1	SLU	2213.30	-52.85	0.85	11.31	2213.94	1.00	32294.70	376490.00	32294.70	14.587
6	297.62	1	SLU	1590.97	-37.99	0.85	11.31	1591.43	1.00	32294.70	375953.00	32294.70	20.293
7	357.14	1	SLU	890.63	-21.27	0.85	11.31	890.89	1.00	32294.70	375417.00	32294.70	36.250
8	416.67	1	SLU	134.26	-3.21	0.85	11.31	134.30	1.00	32294.70	374332.00	32294.70	>100
9	476.19	1	SLU	-487.15	11.63	0.85	11.31	487.29	1.00	32294.70	373248.00	32294.70	66.275
10	535.71	1	SLU	-986.76	23.56	0.85	11.31	987.04	1.00	32294.70	372167.00	32294.70	32.719
11	595.24	1	SLU	-1377.54	32.89	0.85	11.31	1377.93	1.00	32294.70	371088.00	32294.70	23.437
12	654.76	1	SLU	-1672.06	39.92	0.85	11.31	1672.54	1.00	32294.70	370011.00	32294.70	19.309
13	714.29	1	SLU	-1882.35	44.94	0.85	11.31	1882.89	1.00	32294.70	368936.00	32294.70	17.152
14	773.81	1	SLU	-2019.77	48.23	0.85	11.31	2020.35	1.00	32294.70	367863.00	32294.70	15.985
15	833.33	1	SLU	-2094.93	50.02	0.85	11.31	2095.52	1.00	32294.70	366792.00	32294.70	15.411
16	892.86	1	SLU	-2117.62	50.56	0.85	11.31	2118.23	1.00	32294.70	365723.00	32294.70	15.246
17	952.38	1	SLU	-2096.83	50.07	0.85	11.31	2097.43	1.00	32294.70	364656.00	32294.70	15.397
18	1011.90	1	SLU	-2040.68	48.72	0.85	11.31	2041.26	1.00	32294.70	363591.00	32294.70	15.821
19	1071.43	1	SLU	-1956.46	46.71	0.85	11.31	1957.02	1.00	32294.70	362527.00	32294.70	16.502
20	1130.95	1	SLU	-1850.65	44.19	0.85	11.31	1851.17	1.00	32294.70	361465.00	32294.70	17.445
21	1190.48	1	SLU	-1728.95	41.28	0.85	11.31	1729.44	1.00	32294.70	360405.00	32294.70	18.674
22	1250.00	1	SLU	-1596.32	38.11	0.85	11.31	1596.77	1.00	32294.70	359346.00	32294.70	20.225
23	1309.52	1	SLU	-1457.03	34.79	0.85	11.31	1457.45	1.00	32294.70	358288.00	32294.70	22.158
24	1369.05	1	SLU	-1314.74	31.39	0.85	11.31	1315.11	1.00	32294.70	357232.00	32294.70	24.557
25	1428.57	1	SLU	-1172.48	27.99	0.85	11.31	1172.82	1.00	32294.70	356178.00	32294.70	27.536
26	1488.10	1	SLU	-1032.81	24.66	0.85	11.31	1033.10	1.00	32294.70	355124.00	32294.70	31.260
27	1547.62	1	SLU	-897.77	21.44	0.85	11.31	898.03	1.00	32294.70	354072.00	32294.70	35.962
28	1607.14	1	SLU	-769.04	18.36	0.85	11.31	769.26	1.00	32294.70	353021.00	32294.70	41.982
29	1666.67	1	SLU	-647.90	15.47	0.85	11.31	648.09	1.00	32294.70	351972.00	32294.70	49.831
30	1726.19	1	SLU	-535.36	12.78	0.85	11.31	535.51	1.00	32294.70	350923.00	32294.70	60.307
31	1785.71	1	SLU	-432.13	10.32	0.85	11.31	432.26	1.00	32294.70	349875.00	32294.70	74.712
32	1845.24	1	SLU	-338.76	8.09	0.85	11.31	338.85	1.00	32294.70	348829.00	32294.70	95.306
33	1904.76	1	SLU	-255.57	6.10	0.85	11.31	255.64	1.00	32294.70	347783.00	32294.70	>100
34	1964.29	1	SLU	-182.79	4.36	0.85	11.31	182.84	1.00	32294.70	346738.00	32294.70	>100
35	2023.81	1	SLU	-120.53	2.88	0.85	11.31	120.57	1.00	32294.70	345694.00	32294.70	>100
36	2083.33	1	SLU	-68.83	1.64	0.85	11.31	68.85	1.00	32294.70	344651.00	32294.70	>100
37	2142.86	1	SLU	-27.67	0.66	0.85	11.31	27.68	1.00	32294.70	343608.00	32294.70	>100
38	2202.38	1	SLU	2.97	-0.07	0.85	11.31	2.97	1.00	32294.70	342566.00	32294.70	>100
39	2261.90	1	SLU	23.15	-0.55	0.85	11.31	23.16	1.00	32294.70	341525.00	32294.70	>100
40	2321.43	1	SLU	32.91	-0.79	0.85	11.31	32.92	1.00	32294.70	340484.00	32294.70	>100
41	2380.95	1	SLU	32.30	-0.77	0.85	11.31	32.30	1.00	32294.70	339444.00	32294.70	>100

42	2440.48	1	SLU	21.32	-0.51	0.85	11.31	21.33	1.00	32294.70	338404.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_F <daN/cmq>
44	0.00	2	SLE R	-240943.00	5093.98	3495.16	0.00	78.54	22.78	337.04
45	59.52	2	SLE R	-240477.00	6997.24	4801.05	0.00	78.54	23.94	352.64
46	119.05	2	SLE R	-237868.00	8535.62	5856.59	0.00	78.54	24.69	362.53
47	178.57	2	SLE R	-235267.00	9751.33	6690.73	0.00	78.54	25.24	369.69
48	238.09	2	SLE R	-232673.00	10684.60	7331.09	0.00	78.54	25.62	374.45
49	297.62	2	SLE R	-230086.00	11373.40	7803.69	0.00	78.54	25.84	377.15
50	357.14	2	SLE R	-227506.00	11832.30	8118.58	0.00	78.54	25.92	377.91
51	416.67	2	SLE R	-221907.00	12014.40	8243.51	0.00	78.54	25.58	372.63
52	476.19	2	SLE R	-216320.00	11946.30	8196.81	0.00	78.54	25.08	365.24
53	535.71	2	SLE R	-210744.00	11674.80	8010.52	0.00	78.54	24.46	356.13
54	595.24	2	SLE R	-205179.00	11241.80	7713.42	0.00	78.54	23.73	345.67
55	654.76	2	SLE R	-199626.00	10684.60	7331.07	0.00	78.54	22.93	334.16
56	714.29	2	SLE R	-194083.00	10035.90	6885.98	0.00	78.54	22.07	321.89
57	773.81	2	SLE R	-188550.00	9324.30	6397.73	0.00	78.54	21.18	309.10
58	833.33	2	SLE R	-183028.00	8574.38	5883.18	0.00	78.54	20.26	296.00
59	892.86	2	SLE R	-177515.00	7806.94	5356.62	0.00	78.54	19.33	282.76
60	952.38	2	SLE R	-172012.00	7039.42	4829.99	0.00	78.54	18.40	269.53
61	1011.90	2	SLE R	-166518.00	6286.12	4313.13	0.00	78.54	17.48	256.43
62	1071.43	2	SLE R	-161034.00	5558.56	3813.92	0.00	78.54	16.58	243.56
63	1130.95	2	SLE R	-155557.00	4865.73	3338.55	0.00	78.54	15.70	231.00
64	1190.48	2	SLE R	-150090.00	4214.44	2891.67	0.00	78.54	14.84	218.80
65	1250.00	2	SLE R	-144630.00	3609.53	2476.62	0.00	78.54	14.02	207.00
66	1309.52	2	SLE R	-139178.00	3054.18	2095.58	0.00	78.54	13.23	195.64
67	1369.05	2	SLE R	-133733.00	2550.14	1749.74	0.00	78.54	12.47	184.72
68	1428.57	2	SLE R	-128296.00	2097.92	1439.45	0.00	78.54	11.74	174.25
69	1488.10	2	SLE R	-122865.00	1697.03	1164.39	0.00	78.54	11.05	164.22
70	1547.62	2	SLE R	-117441.00	1346.15	923.64	0.00	78.54	10.39	154.62
71	1607.14	2	SLE R	-112023.00	1043.28	715.83	0.00	78.54	9.76	145.45
72	1666.67	2	SLE R	-106612.00	785.88	539.22	0.00	78.54	9.16	136.66
73	1726.19	2	SLE R	-101206.00	571.00	391.78	0.00	78.54	8.58	128.25
74	1785.71	2	SLE R	-95805.30	395.37	271.27	0.00	78.54	8.04	120.17
75	1845.24	2	SLE R	-90409.90	255.50	175.31	0.00	78.54	7.51	112.40
76	1904.76	2	SLE R	-85019.40	147.74	101.37	0.00	78.54	7.00	104.92
77	1964.29	2	SLE R	-79633.50	68.35	46.90	0.00	78.54	6.52	97.67
78	2023.81	2	SLE R	-74251.80	13.51	9.27	0.00	78.54	6.04	90.65
79	2083.33	2	SLE R	-68874.10	-20.60	-14.13	0.00	78.54	5.61	84.15
80	2142.86	2	SLE R	-63500.10	-37.83	-25.95	0.00	78.54	5.19	77.74
81	2202.38	2	SLE R	-58129.50	-42.00	-28.82	0.00	78.54	4.75	71.23
82	2261.90	2	SLE R	-52762.00	-36.93	-25.34	0.00	78.54	4.31	64.64
83	2321.43	2	SLE R	-47397.30	-26.42	-18.13	0.00	78.54	3.87	58.01
84	2380.95	2	SLE R	-42035.20	-14.25	-9.78	0.00	78.54	3.43	51.37
85	2440.48	2	SLE R	-36675.30	-4.19	-2.88	0.00	78.54	2.98	44.75
86	2500.00	2	SLE R	-31317.50	0.00	0.00	0.00	78.54	2.55	38.18
87	0.00	4	SLE Q	-240943.00	5093.98	3495.16	0.00	78.54	22.78	337.04
88	59.52	4	SLE Q	-240477.00	6997.24	4801.05	0.00	78.54	23.94	352.64
89	119.05	4	SLE Q	-237868.00	8535.62	5856.59	0.00	78.54	24.69	362.53
90	178.57	4	SLE Q	-235267.00	9751.33	6690.73	0.00	78.54	25.24	369.69
91	238.09	4	SLE Q	-232673.00	10684.60	7331.09	0.00	78.54	25.62	374.45
92	297.62	4	SLE Q	-230086.00	11373.40	7803.69	0.00	78.54	25.84	377.15
93	357.14	4	SLE Q	-227506.00	11832.30	8118.58	0.00	78.54	25.92	377.91
94	416.67	4	SLE Q	-221907.00	12014.40	8243.51	0.00	78.54	25.58	372.63
95	476.19	4	SLE Q	-216320.00	11946.30	8196.81	0.00	78.54	25.08	365.24
96	535.71	4	SLE Q	-210744.00	11674.80	8010.52	0.00	78.54	24.46	356.13
97	595.24	4	SLE Q	-205179.00	11241.80	7713.42	0.00	78.54	23.73	345.67
98	654.76	4	SLE Q	-199626.00	10684.60	7331.07	0.00	78.54	22.93	334.16
99	714.29	4	SLE Q	-194083.00	10035.90	6885.98	0.00	78.54	22.07	321.89
100	773.81	4	SLE Q	-188550.00	9324.30	6397.73	0.00	78.54	21.18	309.10
101	833.33	4	SLE Q	-183028.00	8574.38	5883.18	0.00	78.54	20.26	296.00
102	892.86	4	SLE Q	-177515.00	7806.94	5356.62	0.00	78.54	19.33	282.76
103	952.38	4	SLE Q	-172012.00	7039.42	4829.99	0.00	78.54	18.40	269.53
104	1011.90	4	SLE Q	-166518.00	6286.12	4313.13	0.00	78.54	17.48	256.43
105	1071.43	4	SLE Q	-161034.00	5558.56	3813.92	0.00	78.54	16.58	243.56
106	1130.95	4	SLE Q	-155557.00	4865.73	3338.55	0.00	78.54	15.70	231.00
107	1190.48	4	SLE Q	-150090.00	4214.44	2891.67	0.00	78.54	14.84	218.80
108	1250.00	4	SLE Q	-144630.00	3609.53	2476.62	0.00	78.54	14.02	207.00
109	1309.52	4	SLE Q	-139178.00	3054.18	2095.58	0.00	78.54	13.23	195.64
110	1369.05	4	SLE Q	-133733.00	2550.14	1749.74	0.00	78.54	12.47	184.72
111	1428.57	4	SLE Q	-128296.00	2097.92	1439.45	0.00	78.54	11.74	174.25
112	1488.10	4	SLE Q	-122865.00	1697.03	1164.39	0.00	78.54	11.05	164.22
113	1547.62	4	SLE Q	-117441.00	1346.15	923.64	0.00	78.54	10.39	154.62
114	1607.14	4	SLE Q	-112023.00	1043.28	715.83	0.00	78.54	9.76	145.45
115	1666.67	4	SLE Q	-106612.00	785.88	539.22	0.00	78.54	9.16	136.66

116	1726.19	4	SLE Q	-101206.00	571.00	391.78	0.00	78.54	8.58	128.25
117	1785.71	4	SLE Q	-95805.30	395.37	271.27	0.00	78.54	8.04	120.17
118	1845.24	4	SLE Q	-90409.90	255.50	175.31	0.00	78.54	7.51	112.40
119	1904.76	4	SLE Q	-85019.40	147.74	101.37	0.00	78.54	7.00	104.92
120	1964.29	4	SLE Q	-79633.50	68.35	46.90	0.00	78.54	6.52	97.67
121	2023.81	4	SLE Q	-74251.80	13.51	9.27	0.00	78.54	6.04	90.65
122	2083.33	4	SLE Q	-68874.10	-20.60	-14.13	0.00	78.54	5.61	84.15
123	2142.86	4	SLE Q	-63500.10	-37.83	-25.95	0.00	78.54	5.19	77.74
124	2202.38	4	SLE Q	-58129.50	-42.00	-28.82	0.00	78.54	4.75	71.23
125	2261.90	4	SLE Q	-52762.00	-36.93	-25.34	0.00	78.54	4.31	64.64
126	2321.43	4	SLE Q	-47397.30	-26.42	-18.13	0.00	78.54	3.87	58.01
127	2380.95	4	SLE Q	-42035.20	-14.25	-9.78	0.00	78.54	3.43	51.37
128	2440.48	4	SLE Q	-36675.30	-4.19	-2.88	0.00	78.54	2.98	44.75
129	2500.00	4	SLE Q	-31317.50	0.00	0.00	0.00	78.54	2.55	38.18

Verifiche principali

Caso	Tipo
1	SLU N cost - min. sic.,SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
50	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
86	C.Rare - Sc max (min. compr.),C.Rare - Sf max (max traz.)
93	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
129	C.Q.Per. - Sc max (min. compr.),C.Q.Per. - Sf max (max traz.)

Palo n. 24

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 24 (-167)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	325212.00	5775.78	139.45	4784.90	7112.64
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	325212.00	5775.78	139.45	4784.90	7112.64
2	2	SLE R	RVN	240898.00	4278.35	103.30	3544.37	5268.62
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	240898.00	4278.35	103.30	3544.37	5268.62
3	3	SLE F	RVN	240898.00	4278.35	103.30	3544.37	5268.62
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	240898.00	4278.35	103.30	3544.37	5268.62
4	4	SLE Q	RVN	240898.00	4278.35	103.30	3544.37	5268.62
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	240898.00	4278.35	103.30	3544.37	5268.62

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-325212.00	-5775.78	-139.45	-4784.90	-7112.64
2	2	SLE R	1	-240898.00	-4278.35	-103.30	-3544.37	-5268.62
3	3	SLE F	1	-240898.00	-4278.35	-103.30	-3544.37	-5268.62
4	4	SLE Q	1	-240898.00	-4278.35	-103.30	-3544.37	-5268.62

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-325212.00	4723.98	-7022.09	-2571250.00	146611.00	-218744.00	2-3	236.25	7.906
2	59.52	1	SLU	-324159.00	6463.07	-9607.19	-2571250.00	146433.00	-218489.00	2-3	236.25	7.932
3	119.05	1	SLU	-320382.00	7867.81	-11695.30	-2571250.00	145794.00	-217576.00	2-3	236.25	8.026
4	178.57	1	SLU	-316614.00	8976.95	-13344.00	-2571250.00	145150.00	-216656.00	2-3	236.25	8.121

5	238.09	1	SLU	-312856.00	9827.38	-14608.20	-2571250.00	144507.00	-215739.00	2-3	236.25	8.219
6	297.62	1	SLU	-309108.00	10453.90	-15539.50	-2571250.00	143863.00	-214820.00	2-3	236.25	8.318
7	357.14	1	SLU	-305370.00	10870.00	-16158.00	-2571250.00	143217.00	-213899.00	2-3	236.25	8.420
8	416.67	1	SLU	-297792.00	11032.70	-16399.90	-2571250.00	141901.00	-212023.00	2-3	236.25	8.634
9	476.19	1	SLU	-290230.00	10966.50	-16301.50	-2571250.00	140578.00	-210138.00	2-3	236.25	8.859
10	535.71	1	SLU	-282683.00	10714.30	-15926.50	-2571250.00	139244.00	-208241.00	2-3	236.25	9.096
11	595.24	1	SLU	-275151.00	10314.30	-15332.00	-2571250.00	137903.00	-206335.00	2-3	236.25	9.345
12	654.76	1	SLU	-267635.00	9800.89	-14568.80	-2571250.00	136556.00	-204421.00	2-3	236.25	9.607
13	714.29	1	SLU	-260132.00	9203.99	-13681.50	-2571250.00	135201.00	-202498.00	2-3	236.25	9.884
14	773.81	1	SLU	-252644.00	8549.77	-12709.00	-2571250.00	133837.00	-200563.00	2-3	236.25	10.177
15	833.33	1	SLU	-245169.00	7860.72	-11684.80	-2571250.00	132467.00	-198621.00	2-3	236.25	10.488
16	892.86	1	SLU	-237707.00	7155.89	-10637.10	-2571250.00	131091.00	-196672.00	2-3	236.25	10.817
17	952.38	1	SLU	-230258.00	6451.25	-9589.62	-2571250.00	129707.00	-194713.00	2-3	236.25	11.167
18	1011.90	1	SLU	-222821.00	5759.87	-8561.90	-2571250.00	128315.00	-192745.00	2-3	236.25	11.540
19	1071.43	1	SLU	-215397.00	5092.28	-7569.55	-2571250.00	126919.00	-190770.00	2-3	236.25	11.937
20	1130.95	1	SLU	-207983.00	4456.72	-6624.81	-2571250.00	125561.00	-188729.00	2-3	236.25	12.363
21	1190.48	1	SLU	-200581.00	3859.39	-5736.89	-2571250.00	124297.00	-186541.00	2-3	236.25	12.819
22	1250.00	1	SLU	-193190.00	3304.71	-4912.37	-2571250.00	123031.00	-184341.00	2-3	236.25	13.309
23	1309.52	1	SLU	-185809.00	2795.58	-4155.56	-2571250.00	121761.00	-182129.00	2-3	236.25	13.838
24	1369.05	1	SLU	-178438.00	2333.57	-3468.79	-2571250.00	120487.00	-179905.00	2-3	236.25	14.410
25	1428.57	1	SLU	-171077.00	1919.14	-2852.76	-2571250.00	119212.00	-177665.00	2-3	236.25	15.030
26	1488.10	1	SLU	-163725.00	1551.84	-2306.77	-2571250.00	117891.00	-175423.00	2-3	236.25	15.705
27	1547.62	1	SLU	-156381.00	1230.42	-1829.00	-2571250.00	116524.00	-173182.00	2-3	236.25	16.442
28	1607.14	1	SLU	-149046.00	953.05	-1416.69	-2571250.00	114944.00	-170985.00	2-3	236.25	17.251
29	1666.67	1	SLU	-141719.00	717.39	-1066.38	-2571250.00	113353.00	-168774.00	2-3	236.25	18.143
30	1726.19	1	SLU	-134400.00	520.71	-774.03	-2571250.00	111752.00	-166551.00	2-3	236.25	19.131
31	1785.71	1	SLU	-127088.00	360.03	-535.18	-2571250.00	110142.00	-164318.00	2-3	236.25	20.232
32	1845.24	1	SLU	-119782.00	232.13	-345.05	-2571250.00	108524.00	-162075.00	2-3	236.25	21.466
33	1904.76	1	SLU	-112483.00	133.66	-198.68	-2571250.00	106895.00	-159821.00	2-3	236.25	22.859
34	1964.29	1	SLU	-105190.00	61.18	-90.94	-2571250.00	105254.00	-157557.00	2-3	236.25	24.444
35	2023.81	1	SLU	-97903.10	11.19	-16.63	-2571250.00	103604.00	-155283.00	2-3	236.25	26.263
36	2083.33	1	SLU	-90621.10	-19.82	29.47	-2571250.00	-102482.00	152802.00	2-3	56.25	28.374
37	2142.86	1	SLU	-83343.90	-35.38	52.60	-2571250.00	-101096.00	150336.00	2-3	56.25	30.851
38	2202.38	1	SLU	-76071.20	-39.00	57.98	-2571250.00	-99644.60	147876.00	2-3	56.25	33.800
39	2261.90	1	SLU	-68802.60	-34.19	50.82	-2571250.00	-97969.20	145470.00	2-3	56.25	37.371
40	2321.43	1	SLU	-61537.60	-24.41	36.29	-2571250.00	-96282.00	143051.00	2-3	56.25	41.783
41	2380.95	1	SLU	-54276.00	-13.15	19.55	-2571250.00	-94583.40	140622.00	2-3	56.25	47.374
42	2440.48	1	SLU	-47017.30	-3.86	5.74	-2571250.00	-92870.00	138179.00	2-3	56.25	54.687
43	2500.00	1	SLU	-39761.00	0.00	0.00	-2571250.00					64.668

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	5775.78	139.45	0.85	11.31	5777.46	1.00	32294.70	378251.00	32294.70	5.590
2	59.52	1	SLU	4709.91	113.72	0.85	11.31	4711.29	1.00	32294.70	378100.00	32294.70	6.855
3	119.05	1	SLU	3763.03	90.86	0.85	11.31	3764.13	1.00	32294.70	377559.00	32294.70	8.580
4	178.57	1	SLU	2930.09	70.75	0.85	11.31	2930.94	1.00	32294.70	377020.00	32294.70	11.019
5	238.09	1	SLU	2205.14	53.24	0.85	11.31	2205.78	1.00	32294.70	376481.00	32294.70	14.641
6	297.62	1	SLU	1581.59	38.19	0.85	11.31	1582.05	1.00	32294.70	375945.00	32294.70	20.413
7	357.14	1	SLU	880.07	21.25	0.85	11.31	880.33	1.00	32294.70	375409.00	32294.70	36.685
8	416.67	1	SLU	122.63	2.96	0.85	11.31	122.66	1.00	32294.70	374324.00	32294.70	>100
9	476.19	1	SLU	-499.45	-12.06	0.85	11.31	499.60	1.00	32294.70	373240.00	32294.70	64.642
10	535.71	1	SLU	-999.39	-24.13	0.85	11.31	999.68	1.00	32294.70	372159.00	32294.70	32.305
11	595.24	1	SLU	-1390.20	-33.57	0.85	11.31	1390.61	1.00	32294.70	371081.00	32294.70	23.224
12	654.76	1	SLU	-1684.52	-40.67	0.85	11.31	1685.01	1.00	32294.70	370004.00	32294.70	19.166
13	714.29	1	SLU	-1894.42	-45.74	0.85	11.31	1894.97	1.00	32294.70	368929.00	32294.70	17.042
14	773.81	1	SLU	-2031.29	-49.04	0.85	11.31	2031.88	1.00	32294.70	367857.00	32294.70	15.894
15	833.33	1	SLU	-2105.79	-50.84	0.85	11.31	2106.40	1.00	32294.70	366786.00	32294.70	15.332
16	892.86	1	SLU	-2127.74	-51.37	0.85	11.31	2128.36	1.00	32294.70	365717.00	32294.70	15.174
17	952.38	1	SLU	-2106.16	-50.85	0.85	11.31	2106.77	1.00	32294.70	364650.00	32294.70	15.329
18	1011.90	1	SLU	-2049.18	-49.48	0.85	11.31	2049.77	1.00	32294.70	363585.00	32294.70	15.755
19	1071.43	1	SLU	-1964.12	-47.42	0.85	11.31	1964.69	1.00	32294.70	362521.00	32294.70	16.438
20	1130.95	1	SLU	-1857.48	-44.85	0.85	11.31	1858.02	1.00	32294.70	361460.00	32294.70	17.381
21	1190.48	1	SLU	-1734.97	-41.89	0.85	11.31	1735.47	1.00	32294.70	360399.00	32294.70	18.609
22	1250.00	1	SLU	-1601.56	-38.67	0.85	11.31	1602.02	1.00	32294.70	359341.00	32294.70	20.159
23	1309.52	1	SLU	-1461.53	-35.29	0.85	11.31	1461.96	1.00	32294.70	358283.00	32294.70	22.090
24	1369.05	1	SLU	-1318.54	-31.84	0.85	11.31	1318.92	1.00	32294.70	357227.00	32294.70	24.486
25	1428.57	1	SLU	-1175.64	-28.39	0.85	11.31	1175.98	1.00	32294.70	356173.00	32294.70	27.462
26	1488.10	1	SLU	-1035.36	-25.00	0.85	11.31	1035.66	1.00	32294.70	355120.00	32294.70	31.183
27	1547.62	1	SLU	-899.78	-21.73	0.85	11.31	900.05	1.00	32294.70	354068.00	32294.70	35.881
28	1607.14	1	SLU	-770.56	-18.61	0.85	11.31	770.79	1.00	32294.70	353017.00	32294.70	41.898
29	1666.67	1	SLU	-648.99	-15.67	0.85	11.31	649.18	1.00	32294.70	351968.00	32294.70	49.747
30	1726.19	1	SLU	-536.07	-12.94	0.85	11.31	536.22	1.00	32294.70	350919.00	32294.70	60.226
31	1785.71	1	SLU	-432.52	-10.44	0.85	11.31	432.64	1.00	32294.70	349872.00	32294.70	74.645
32	1845.24	1	SLU	-338.86	-8.18	0.85	11.31	338.96	1.00	32294.70	348826.00	32294.70	95.276
33	1904.76	1	SLU	-255.45	-6.17	0.85	11.31	255.52	1.00	32294.70	347780.00	32294.70	>100
34	1964.29	1	SLU	-182.49	-4.41	0.85	11.31	182.54	1.00	32294.70	346736.00	32294.70	>100

35	2023.81	1	SLU	-120.09	-2.90	0.85	11.31	120.13	1.00	32294.70	345692.00	32294.70	>100
36	2083.33	1	SLU	-68.30	-1.65	0.85	11.31	68.32	1.00	32294.70	344649.00	32294.70	>100
37	2142.86	1	SLU	-27.10	-0.65	0.85	11.31	27.10	1.00	32294.70	343606.00	32294.70	>100
38	2202.38	1	SLU	3.55	0.09	0.85	11.31	3.55	1.00	32294.70	342564.00	32294.70	>100
39	2261.90	1	SLU	23.70	0.57	0.85	11.31	23.70	1.00	32294.70	341523.00	32294.70	>100
40	2321.43	1	SLU	33.38	0.81	0.85	11.31	33.39	1.00	32294.70	340483.00	32294.70	>100
41	2380.95	1	SLU	32.65	0.79	0.85	11.31	32.66	1.00	32294.70	339443.00	32294.70	>100
42	2440.48	1	SLU	21.52	0.52	0.85	11.31	21.52	1.00	32294.70	338403.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_F <daN/cmq>
44	0.00	2	SLE R	-240898.00	-5201.55	3499.25	0.00	78.54	22.82	337.81
45	59.52	2	SLE R	-240431.00	-7116.44	4787.46	0.00	78.54	23.98	353.48
46	119.05	2	SLE R	-237823.00	-8663.19	5828.01	0.00	78.54	24.73	363.42
47	178.57	2	SLE R	-235222.00	-9884.46	6649.59	0.00	78.54	25.28	370.60
48	238.09	2	SLE R	-232629.00	-10820.90	7279.54	0.00	78.54	25.65	375.38
49	297.62	2	SLE R	-230043.00	-11510.70	7743.65	0.00	78.54	25.87	378.07
50	357.14	2	SLE R	-227464.00	-11968.90	8051.86	0.00	78.54	25.95	378.81
51	416.67	2	SLE R	-221866.00	-12148.00	8172.38	0.00	78.54	25.61	373.50
52	476.19	2	SLE R	-216279.00	-12075.20	8123.35	0.00	78.54	25.11	366.08
53	535.71	2	SLE R	-210705.00	-11797.40	7936.49	0.00	78.54	24.48	356.92
54	595.24	2	SLE R	-205141.00	-11357.00	7640.24	0.00	78.54	23.75	346.41
55	654.76	2	SLE R	-199589.00	-10791.70	7259.92	0.00	78.54	22.95	334.84
56	714.29	2	SLE R	-194047.00	-10134.50	6817.77	0.00	78.54	22.09	322.51
57	773.81	2	SLE R	-188515.00	-9414.10	6333.17	0.00	78.54	21.19	309.66
58	833.33	2	SLE R	-182994.00	-8655.38	5822.75	0.00	78.54	20.27	296.50
59	892.86	2	SLE R	-177483.00	-7879.30	5300.66	0.00	78.54	19.34	283.20
60	952.38	2	SLE R	-171981.00	-7103.42	4778.70	0.00	78.54	18.41	269.91
61	1011.90	2	SLE R	-166488.00	-6342.15	4266.57	0.00	78.54	17.49	256.76
62	1071.43	2	SLE R	-161004.00	-5607.08	3772.06	0.00	78.54	16.58	243.84
63	1130.95	2	SLE R	-155529.00	-4907.26	3301.27	0.00	78.54	15.70	231.23
64	1190.48	2	SLE R	-150062.00	-4249.54	2858.81	0.00	78.54	14.85	218.99
65	1250.00	2	SLE R	-144603.00	-3638.79	2447.93	0.00	78.54	14.02	207.16
66	1309.52	2	SLE R	-139152.00	-3078.19	2070.80	0.00	78.54	13.23	195.76
67	1369.05	2	SLE R	-133709.00	-2569.47	1728.57	0.00	78.54	12.47	184.81
68	1428.57	2	SLE R	-128272.00	-2113.15	1421.59	0.00	78.54	11.74	174.31
69	1488.10	2	SLE R	-122843.00	-1708.72	1149.51	0.00	78.54	11.05	164.26
70	1547.62	2	SLE R	-117420.00	-1354.81	911.42	0.00	78.54	10.39	154.65
71	1607.14	2	SLE R	-112003.00	-1049.40	705.97	0.00	78.54	9.76	145.46
72	1666.67	2	SLE R	-106593.00	-789.91	531.40	0.00	78.54	9.16	136.66
73	1726.19	2	SLE R	-101188.00	-573.36	385.71	0.00	78.54	8.58	128.23
74	1785.71	2	SLE R	-95788.30	-396.43	266.69	0.00	78.54	8.03	120.15
75	1845.24	2	SLE R	-90394.00	-255.59	171.95	0.00	78.54	7.51	112.38
76	1904.76	2	SLE R	-85004.50	-147.17	99.01	0.00	78.54	7.00	104.89
77	1964.29	2	SLE R	-79619.60	-67.36	45.32	0.00	78.54	6.51	97.65
78	2023.81	2	SLE R	-74238.90	-12.32	8.29	0.00	78.54	6.04	90.62
79	2083.33	2	SLE R	-68862.30	21.83	-14.68	0.00	78.54	5.61	84.14
80	2142.86	2	SLE R	-63489.30	38.96	-26.21	0.00	78.54	5.18	77.74
81	2202.38	2	SLE R	-58119.70	42.95	-28.89	0.00	78.54	4.75	71.22
82	2261.90	2	SLE R	-52753.30	37.64	-25.32	0.00	78.54	4.31	64.64
83	2321.43	2	SLE R	-47389.60	26.88	-18.08	0.00	78.54	3.87	58.01
84	2380.95	2	SLE R	-42028.60	14.48	-9.74	0.00	78.54	3.43	51.37
85	2440.48	2	SLE R	-36669.70	4.25	-2.86	0.00	78.54	2.98	44.75
86	2500.00	2	SLE R	-31312.90	0.00	0.00	0.00	78.54	2.55	38.18
87	0.00	4	SLE Q	-240898.00	-5201.55	3499.25	0.00	78.54	22.82	337.81
88	59.52	4	SLE Q	-240431.00	-7116.44	4787.46	0.00	78.54	23.98	353.48
89	119.05	4	SLE Q	-237823.00	-8663.19	5828.01	0.00	78.54	24.73	363.42
90	178.57	4	SLE Q	-235222.00	-9884.46	6649.59	0.00	78.54	25.28	370.60
91	238.09	4	SLE Q	-232629.00	-10820.90	7279.54	0.00	78.54	25.65	375.38
92	297.62	4	SLE Q	-230043.00	-11510.70	7743.65	0.00	78.54	25.87	378.07
93	357.14	4	SLE Q	-227464.00	-11968.90	8051.86	0.00	78.54	25.95	378.81
94	416.67	4	SLE Q	-221866.00	-12148.00	8172.38	0.00	78.54	25.61	373.50
95	476.19	4	SLE Q	-216279.00	-12075.20	8123.35	0.00	78.54	25.11	366.08
96	535.71	4	SLE Q	-210705.00	-11797.40	7936.49	0.00	78.54	24.48	356.92
97	595.24	4	SLE Q	-205141.00	-11357.00	7640.24	0.00	78.54	23.75	346.41
98	654.76	4	SLE Q	-199589.00	-10791.70	7259.92	0.00	78.54	22.95	334.84
99	714.29	4	SLE Q	-194047.00	-10134.50	6817.77	0.00	78.54	22.09	322.51
100	773.81	4	SLE Q	-188515.00	-9414.10	6333.17	0.00	78.54	21.19	309.66
101	833.33	4	SLE Q	-182994.00	-8655.38	5822.75	0.00	78.54	20.27	296.50
102	892.86	4	SLE Q	-177483.00	-7879.30	5300.66	0.00	78.54	19.34	283.20
103	952.38	4	SLE Q	-171981.00	-7103.42	4778.70	0.00	78.54	18.41	269.91
104	1011.90	4	SLE Q	-166488.00	-6342.15	4266.57	0.00	78.54	17.49	256.76
105	1071.43	4	SLE Q	-161004.00	-5607.08	3772.06	0.00	78.54	16.58	243.84
106	1130.95	4	SLE Q	-155529.00	-4907.26	3301.27	0.00	78.54	15.70	231.23
107	1190.48	4	SLE Q	-150062.00	-4249.54	2858.81	0.00	78.54	14.85	218.99
108	1250.00	4	SLE Q	-144603.00	-3638.79	2447.93	0.00	78.54	14.02	207.16

109	1309.52	4	SLE Q	-139152.00	-3078.19	2070.80	0.00	78.54	13.23	195.76
110	1369.05	4	SLE Q	-133709.00	-2569.47	1728.57	0.00	78.54	12.47	184.81
111	1428.57	4	SLE Q	-128272.00	-2113.15	1421.59	0.00	78.54	11.74	174.31
112	1488.10	4	SLE Q	-122843.00	-1708.72	1149.51	0.00	78.54	11.05	164.26
113	1547.62	4	SLE Q	-117420.00	-1354.81	911.42	0.00	78.54	10.39	154.65
114	1607.14	4	SLE Q	-112003.00	-1049.40	705.97	0.00	78.54	9.76	145.46
115	1666.67	4	SLE Q	-106593.00	-789.91	531.40	0.00	78.54	9.16	136.66
116	1726.19	4	SLE Q	-101188.00	-573.36	385.71	0.00	78.54	8.58	128.23
117	1785.71	4	SLE Q	-95788.30	-396.43	266.69	0.00	78.54	8.03	120.15
118	1845.24	4	SLE Q	-90394.00	-255.59	171.95	0.00	78.54	7.51	112.38
119	1904.76	4	SLE Q	-85004.50	-147.17	99.01	0.00	78.54	7.00	104.89
120	1964.29	4	SLE Q	-79619.60	-67.36	45.32	0.00	78.54	6.51	97.65
121	2023.81	4	SLE Q	-74238.90	-12.32	8.29	0.00	78.54	6.04	90.62
122	2083.33	4	SLE Q	-68862.30	21.83	-14.68	0.00	78.54	5.61	84.14
123	2142.86	4	SLE Q	-63489.30	38.96	-26.21	0.00	78.54	5.18	77.74
124	2202.38	4	SLE Q	-58119.70	42.95	-28.89	0.00	78.54	4.75	71.22
125	2261.90	4	SLE Q	-52753.30	37.64	-25.32	0.00	78.54	4.31	64.64
126	2321.43	4	SLE Q	-47389.60	26.88	-18.08	0.00	78.54	3.87	58.01
127	2380.95	4	SLE Q	-42028.60	14.48	-9.74	0.00	78.54	3.43	51.37
128	2440.48	4	SLE Q	-36669.70	4.25	-2.86	0.00	78.54	2.98	44.75
129	2500.00	4	SLE Q	-31312.90	0.00	0.00	0.00	78.54	2.55	38.18

Verifiche principali

Caso	Tipo
1	SLU N cost - min. sic.,SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
50	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
86	C.Rare - Sc max (min. compr.),C.Rare - Sf max (max traz.)
93	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
129	C.Q.Per. - Sc max (min. compr.),C.Q.Per. - Sf max (max traz.)

Palo n. 25

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 25 (-163)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	312389.00	5857.57	408.31	10679.60	19788.80
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	312389.00	5857.57	408.31	10679.60	19788.80
2	2	SLE R	RVN	231400.00	4338.94	302.46	7910.80	14658.40
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	231400.00	4338.94	302.46	7910.80	14658.40
3	3	SLE F	RVN	231400.00	4338.94	302.46	7910.80	14658.40
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	231400.00	4338.94	302.46	7910.80	14658.40
4	4	SLE Q	RVN	231400.00	4338.94	302.46	7910.80	14658.40
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	231400.00	4338.94	302.46	7910.80	14658.40

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-312389.00	-5857.57	-408.31	-10679.60	-19788.80
2	2	SLE R	1	-231400.00	-4338.94	-302.46	-7910.80	-14658.40
3	3	SLE F	1	-231400.00	-4338.94	-302.46	-7910.80	-14658.40
4	4	SLE Q	1	-231400.00	-4338.94	-302.46	-7910.80	-14658.40

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-312389.00	10611.90	-19663.30	-2571250.00	124958.00	-227696.00	2-3	241.25	8.231
2	59.52	1	SLU	-311426.00	12069.90	-22364.90	-2571250.00	124825.00	-227454.00	2-3	241.25	8.256
3	119.05	1	SLU	-307826.00	13157.60	-24380.40	-2571250.00	124326.00	-226549.00	2-3	241.25	8.353
4	178.57	1	SLU	-304236.00	13923.10	-25799.00	-2571250.00	123829.00	-225646.00	2-3	241.25	8.451
5	238.09	1	SLU	-300656.00	14411.60	-26704.10	-300656.00	123330.00	-224741.00	2-3	241.25	8.448
6	297.62	1	SLU	-297084.00	14664.90	-27173.40	-297084.00	122830.00	-223836.00	2-3	241.25	8.269
7	357.14	1	SLU	-293523.00	14702.30	-27242.70	-293523.00	122332.00	-222932.00	2-3	241.25	8.214
8	416.67	1	SLU	-286245.00	14486.20	-26842.30	-286245.00	121306.00	-221073.00	2-3	241.25	8.267
9	476.19	1	SLU	-278984.00	14047.60	-26029.50	-278984.00	120276.00	-219208.00	2-3	241.25	8.453
10	535.71	1	SLU	-271737.00	13434.80	-24894.10	-271737.00	119233.00	-217248.00	2-3	241.25	8.761
11	595.24	1	SLU	-264505.00	12690.70	-23515.30	-264505.00	118093.00	-215209.00	2-3	241.25	9.187
12	654.76	1	SLU	-257286.00	11852.70	-21962.60	-257286.00	116956.00	-213150.00	2-3	241.25	9.742
13	714.29	1	SLU	-250082.00	10953.40	-20296.10	-2571250.00	115814.00	-211081.00	2-3	241.25	10.282
14	773.81	1	SLU	-242891.00	10020.30	-18567.10	-2571250.00	114666.00	-209001.00	2-3	241.25	10.586
15	833.33	1	SLU	-235714.00	9076.73	-16818.80	-2571250.00	113510.00	-206906.00	2-3	241.25	10.908
16	892.86	1	SLU	-228548.00	8142.16	-15087.10	-2571250.00	112350.00	-204801.00	2-3	241.25	11.250
17	952.38	1	SLU	-221395.00	7232.26	-13401.10	-2571250.00	111186.00	-202687.00	2-3	241.25	11.614
18	1011.90	1	SLU	-214254.00	6359.53	-11783.90	-2571250.00	110015.00	-200560.00	2-3	241.25	12.001
19	1071.43	1	SLU	-207125.00	5533.56	-10253.40	-2571250.00	108839.00	-198421.00	2-3	241.25	12.414
20	1130.95	1	SLU	-200006.00	4761.44	-8822.73	-2571250.00	107658.00	-196274.00	2-3	241.25	12.856
21	1190.48	1	SLU	-192899.00	4048.03	-7500.83	-2571250.00	106473.00	-194117.00	2-3	241.25	13.329
22	1250.00	1	SLU	-185801.00	3396.33	-6293.25	-2571250.00	105281.00	-191947.00	2-3	241.25	13.839
23	1309.52	1	SLU	-178714.00	2807.69	-5202.52	-2571250.00	104085.00	-189768.00	2-3	241.25	14.387
24	1369.05	1	SLU	-171636.00	2282.12	-4228.67	-2571250.00	102885.00	-187581.00	2-3	241.25	14.981
25	1428.57	1	SLU	-164567.00	1818.53	-3369.66	-2571250.00	101679.00	-185383.00	2-3	241.25	15.624
26	1488.10	1	SLU	-157508.00	1414.91	-2621.76	-2571250.00	100468.00	-183175.00	2-3	241.25	16.325
27	1547.62	1	SLU	-150456.00	1068.51	-1979.91	-2571250.00	99254.10	-180959.00	2-3	241.25	17.090
28	1607.14	1	SLU	-143413.00	776.05	-1437.99	-2571250.00	98035.30	-178735.00	2-3	241.25	17.929
29	1666.67	1	SLU	-136377.00	533.80	-989.10	-2571250.00	96811.20	-176501.00	2-3	241.25	18.854
30	1726.19	1	SLU	-129349.00	337.73	-625.79	-2571250.00	95583.60	-174259.00	2-3	241.25	19.878
31	1785.71	1	SLU	-122328.00	183.59	-340.19	-2571250.00	94352.30	-172011.00	2-3	241.25	21.019
32	1845.24	1	SLU	-115313.00	67.03	-124.20	-2571250.00	93115.70	-169753.00	2-3	241.25	22.298
33	1904.76	1	SLU	-108304.00	-16.42	30.43	-2571250.00	-91762.00	167241.00	2-3	61.25	23.741
34	1964.29	1	SLU	-101302.00	-71.23	131.98	-2571250.00	-90461.40	164864.00	2-3	61.25	25.382
35	2023.81	1	SLU	-94304.40	-101.86	188.73	-2571250.00	-89155.30	162478.00	2-3	61.25	27.265
36	2083.33	1	SLU	-87312.10	-112.74	208.90	-2571250.00	-87843.70	160082.00	2-3	61.25	29.449
37	2142.86	1	SLU	-80324.50	-108.27	200.62	-2571250.00	-86525.90	157675.00	2-3	61.25	32.011
38	2202.38	1	SLU	-73341.20	-92.81	171.97	-2571250.00	-85203.60	155260.00	2-3	61.25	35.059
39	2261.90	1	SLU	-66361.90	-70.64	130.90	-2571250.00	-83876.60	152837.00	2-3	61.25	38.746
40	2321.43	1	SLU	-59386.10	-46.05	85.34	-2571250.00	-82543.00	150403.00	2-3	61.25	43.297
41	2380.95	1	SLU	-52413.40	-23.27	43.12	-2571250.00	-81205.10	147962.00	2-3	61.25	49.057
42	2440.48	1	SLU	-45443.60	-6.52	12.08	-2571250.00	-79862.90	145514.00	2-3	61.25	56.581
43	2500.00	1	SLU	-38476.30	0.00	0.00	-2571250.00					66.827

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	5857.57	408.31	0.85	11.31	5871.78	1.00	32294.70	376415.00	32294.70	5.500
2	59.52	1	SLU	4462.53	311.07	0.85	11.31	4473.36	1.00	32294.70	376277.00	32294.70	7.219
3	119.05	1	SLU	3242.50	226.03	0.85	11.31	3250.37	1.00	32294.70	375761.00	32294.70	9.936
4	178.57	1	SLU	2187.07	152.46	0.85	11.31	2192.38	1.00	32294.70	375247.00	32294.70	14.730
5	238.09	1	SLU	1285.09	89.58	0.85	11.31	1288.21	1.00	32294.70	374734.00	32294.70	25.070
6	297.62	1	SLU	524.89	36.59	0.85	11.31	526.16	1.00	32294.70	374222.00	32294.70	61.378
7	357.14	1	SLU	-307.81	-21.46	0.85	11.31	308.55	1.00	32294.70	373712.00	32294.70	>100
8	416.67	1	SLU	-1185.34	-82.63	0.85	11.31	1188.21	1.00	32294.70	372670.00	32294.70	27.179
9	476.19	1	SLU	-1881.92	-131.18	0.85	11.31	1886.49	1.00	32294.70	371630.00	32294.70	17.119
10	535.71	1	SLU	-2417.65	-168.53	0.85	11.31	2423.52	1.00	32294.70	370592.00	32294.70	13.326
11	595.24	1	SLU	-2811.88	-196.01	0.85	11.31	2818.70	1.00	32294.70	369556.00	32294.70	11.457
12	654.76	1	SLU	-3082.98	-214.91	0.85	11.31	3090.46	1.00	32294.70	368522.00	32294.70	10.450
13	714.29	1	SLU	-3248.22	-226.43	0.85	11.31	3256.10	1.00	32294.70	367490.00	32294.70	9.918
14	773.81	1	SLU	-3323.64	-231.68	0.85	11.31	3331.71	1.00	32294.70	366460.00	32294.70	9.693
15	833.33	1	SLU	-3323.98	-231.71	0.85	11.31	3332.04	1.00	32294.70	365432.00	32294.70	9.692
16	892.86	1	SLU	-3262.65	-227.43	0.85	11.31	3270.57	1.00	32294.70	364405.00	32294.70	9.874
17	952.38	1	SLU	-3151.75	-219.70	0.85	11.31	3159.40	1.00	32294.70	363381.00	32294.70	10.222
18	1011.90	1	SLU	-3002.07	-209.27	0.85	11.31	3009.35	1.00	32294.70	362358.00	32294.70	10.731
19	1071.43	1	SLU	-2823.15	-196.79	0.85	11.31	2830.00	1.00	32294.70	361337.00	32294.70	11.412
20	1130.95	1	SLU	-2623.34	-182.87	0.85	11.31	2629.70	1.00	32294.70	360317.00	32294.70	12.281
21	1190.48	1	SLU	-2409.85	-167.98	0.85	11.31	2415.69	1.00	32294.70	359299.00	32294.70	13.369
22	1250.00	1	SLU	-2188.85	-152.58	0.85	11.31	2194.16	1.00	32294.70	358282.00	32294.70	14.719
23	1309.52	1	SLU	-1965.56	-137.01	0.85	11.31	1970.33	1.00	32294.70	357267.00	32294.70	16.390
24	1369.05	1	SLU	-1744.33	-121.59	0.85	11.31	1748.56	1.00	32294.70	356253.00	32294.70	18.469
25	1428.57	1	SLU	-1528.70	-106.56	0.85	11.31	1532.41	1.00	32294.70	355241.00	32294.70	21.075
26	1488.10	1	SLU	-1321.55	-92.12	0.85	11.31	1324.76	1.00	32294.70	354229.00	32294.70	24.378
27	1547.62	1	SLU	-1125.13	-78.43	0.85	11.31	1127.86	1.00	32294.70	353219.00	32294.70	28.634

28	1607.14	1	SLU	-941.16	-65.61	0.85	11.31	943.45	1.00	32294.70	352210.00	32294.70	34.231
29	1666.67	1	SLU	-770.94	-53.74	0.85	11.31	772.81	1.00	32294.70	351203.00	32294.70	41.789
30	1726.19	1	SLU	-615.36	-42.90	0.85	11.31	616.85	1.00	32294.70	350196.00	32294.70	52.354
31	1785.71	1	SLU	-475.02	-33.11	0.85	11.31	476.18	1.00	32294.70	349190.00	32294.70	67.821
32	1845.24	1	SLU	-350.28	-24.42	0.85	11.31	351.13	1.00	32294.70	348185.00	32294.70	91.973
33	1904.76	1	SLU	-241.31	-16.82	0.85	11.31	241.89	1.00	32294.70	347182.00	32294.70	>100
34	1964.29	1	SLU	-148.12	-10.32	0.85	11.31	148.47	1.00	32294.70	346178.00	32294.70	>100
35	2023.81	1	SLU	-70.64	-4.92	0.85	11.31	70.81	1.00	32294.70	345176.00	32294.70	>100
36	2083.33	1	SLU	-8.75	-0.61	0.85	11.31	8.77	1.00	32294.70	344175.00	32294.70	>100
37	2142.86	1	SLU	37.71	2.63	0.85	11.31	37.80	1.00	32294.70	343174.00	32294.70	>100
38	2202.38	1	SLU	68.91	4.80	0.85	11.31	69.08	1.00	32294.70	342173.00	32294.70	>100
39	2261.90	1	SLU	84.99	5.92	0.85	11.31	85.19	1.00	32294.70	341174.00	32294.70	>100
40	2321.43	1	SLU	86.07	6.00	0.85	11.31	86.28	1.00	32294.70	340175.00	32294.70	>100
41	2380.95	1	SLU	72.23	5.04	0.85	11.31	72.41	1.00	32294.70	339176.00	32294.70	>100
42	2440.48	1	SLU	43.54	3.03	0.85	11.31	43.64	1.00	32294.70	338177.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-231400.00	-14565.40	7860.63	0.00	78.54	27.30	397.83
45	59.52	2	SLE R	-230999.00	-16566.60	8940.64	0.00	78.54	28.43	413.24
46	119.05	2	SLE R	-228523.00	-18059.60	9746.36	0.00	78.54	29.10	422.08
47	178.57	2	SLE R	-226054.00	-19110.30	10313.40	0.00	78.54	29.51	427.42
48	238.09	2	SLE R	-223591.00	-19780.80	10675.30	0.00	78.54	29.71	429.74
49	297.62	2	SLE R	-221136.00	-20128.40	10862.90	0.00	78.54	29.71	429.51
50	357.14	2	SLE R	-218688.00	-20179.70	10890.60	0.00	78.54	29.54	426.93
51	416.67	2	SLE R	-213313.00	-19883.20	10730.50	0.00	78.54	28.93	418.02
52	476.19	2	SLE R	-207949.00	-19281.10	10405.60	0.00	78.54	28.14	406.70
53	535.71	2	SLE R	-202596.00	-18440.00	9951.69	0.00	78.54	27.22	393.49
54	595.24	2	SLE R	-197254.00	-17418.70	9400.51	0.00	78.54	26.19	378.87
55	654.76	2	SLE R	-191923.00	-16268.60	8779.81	0.00	78.54	25.08	363.23
56	714.29	2	SLE R	-186602.00	-15034.10	8113.60	0.00	78.54	23.93	346.94
57	773.81	2	SLE R	-181291.00	-13753.40	7422.41	0.00	78.54	22.75	330.29
58	833.33	2	SLE R	-175990.00	-12458.40	6723.51	0.00	78.54	21.57	313.54
59	892.86	2	SLE R	-170698.00	-11175.60	6031.23	0.00	78.54	20.39	296.90
60	952.38	2	SLE R	-165416.00	-9926.71	5357.23	0.00	78.54	19.23	280.54
61	1011.90	2	SLE R	-160142.00	-8728.83	4710.76	0.00	78.54	18.11	264.59
62	1071.43	2	SLE R	-154877.00	-7595.14	4098.93	0.00	78.54	17.02	249.16
63	1130.95	2	SLE R	-149620.00	-6535.35	3526.99	0.00	78.54	15.97	234.34
64	1190.48	2	SLE R	-144371.00	-5556.17	2998.54	0.00	78.54	14.97	220.16
65	1250.00	2	SLE R	-139130.00	-4661.66	2515.80	0.00	78.54	14.03	206.66
66	1309.52	2	SLE R	-133896.00	-3853.72	2079.77	0.00	78.54	13.13	193.86
67	1369.05	2	SLE R	-128670.00	-3132.35	1690.46	0.00	78.54	12.28	181.76
68	1428.57	2	SLE R	-123450.00	-2496.05	1347.06	0.00	78.54	11.49	170.34
69	1488.10	2	SLE R	-118238.00	-1942.05	1048.08	0.00	78.54	10.74	159.59
70	1547.62	2	SLE R	-113031.00	-1466.60	791.49	0.00	78.54	10.04	149.46
71	1607.14	2	SLE R	-107830.00	-1065.17	574.85	0.00	78.54	9.39	139.93
72	1666.67	2	SLE R	-102636.00	-732.67	395.40	0.00	78.54	8.77	130.96
73	1726.19	2	SLE R	-97446.50	-463.55	250.17	0.00	78.54	8.19	122.49
74	1785.71	2	SLE R	-92262.50	-251.99	136.00	0.00	78.54	7.65	114.49
75	1845.24	2	SLE R	-87083.40	-92.00	49.65	0.00	78.54	7.13	106.91
76	1904.76	2	SLE R	-81909.00	22.54	-12.17	0.00	78.54	6.67	100.05
77	1964.29	2	SLE R	-76739.00	97.77	-52.76	0.00	78.54	6.29	94.35
78	2023.81	2	SLE R	-71573.20	139.80	-75.45	0.00	78.54	5.90	88.38
79	2083.33	2	SLE R	-66411.10	154.74	-83.51	0.00	78.54	5.49	82.21
80	2142.86	2	SLE R	-61252.70	148.61	-80.20	0.00	78.54	5.07	75.87
81	2202.38	2	SLE R	-56097.50	127.38	-68.75	0.00	78.54	4.63	69.42
82	2261.90	2	SLE R	-50945.30	96.96	-52.33	0.00	78.54	4.20	62.89
83	2321.43	2	SLE R	-45795.90	63.21	-34.11	0.00	78.54	3.76	56.34
84	2380.95	2	SLE R	-40648.90	31.94	-17.24	0.00	78.54	3.32	49.82
85	2440.48	2	SLE R	-35504.10	8.95	-4.83	0.00	78.54	2.89	43.36
86	2500.00	2	SLE R	-30361.20	0.00	0.00	0.00	78.54	2.47	37.02
87	0.00	4	SLE Q	-231400.00	-14565.40	7860.63	0.00	78.54	27.30	397.83
88	59.52	4	SLE Q	-230999.00	-16566.60	8940.64	0.00	78.54	28.43	413.24
89	119.05	4	SLE Q	-228523.00	-18059.60	9746.36	0.00	78.54	29.10	422.08
90	178.57	4	SLE Q	-226054.00	-19110.30	10313.40	0.00	78.54	29.51	427.42
91	238.09	4	SLE Q	-223591.00	-19780.80	10675.30	0.00	78.54	29.71	429.74
92	297.62	4	SLE Q	-221136.00	-20128.40	10862.90	0.00	78.54	29.71	429.51
93	357.14	4	SLE Q	-218688.00	-20179.70	10890.60	0.00	78.54	29.54	426.93
94	416.67	4	SLE Q	-213313.00	-19883.20	10730.50	0.00	78.54	28.93	418.02
95	476.19	4	SLE Q	-207949.00	-19281.10	10405.60	0.00	78.54	28.14	406.70
96	535.71	4	SLE Q	-202596.00	-18440.00	9951.69	0.00	78.54	27.22	393.49
97	595.24	4	SLE Q	-197254.00	-17418.70	9400.51	0.00	78.54	26.19	378.87
98	654.76	4	SLE Q	-191923.00	-16268.60	8779.81	0.00	78.54	25.08	363.23
99	714.29	4	SLE Q	-186602.00	-15034.10	8113.60	0.00	78.54	23.93	346.94
100	773.81	4	SLE Q	-181291.00	-13753.40	7422.41	0.00	78.54	22.75	330.29
101	833.33	4	SLE Q	-175990.00	-12458.40	6723.51	0.00	78.54	21.57	313.54

102	892.86	4	SLE Q	-170698.00	-11175.60	6031.23	0.00	78.54	20.39	296.90
103	952.38	4	SLE Q	-165416.00	-9926.71	5357.23	0.00	78.54	19.23	280.54
104	1011.90	4	SLE Q	-160142.00	-8728.83	4710.76	0.00	78.54	18.11	264.59
105	1071.43	4	SLE Q	-154877.00	-7595.14	4098.93	0.00	78.54	17.02	249.16
106	1130.95	4	SLE Q	-149620.00	-6535.35	3526.99	0.00	78.54	15.97	234.34
107	1190.48	4	SLE Q	-144371.00	-5556.17	2998.54	0.00	78.54	14.97	220.16
108	1250.00	4	SLE Q	-139130.00	-4661.66	2515.80	0.00	78.54	14.03	206.66
109	1309.52	4	SLE Q	-133896.00	-3853.72	2079.77	0.00	78.54	13.13	193.86
110	1369.05	4	SLE Q	-128670.00	-3132.35	1690.46	0.00	78.54	12.28	181.76
111	1428.57	4	SLE Q	-123450.00	-2496.05	1347.06	0.00	78.54	11.49	170.34
112	1488.10	4	SLE Q	-118238.00	-1942.05	1048.08	0.00	78.54	10.74	159.59
113	1547.62	4	SLE Q	-113031.00	-1466.60	791.49	0.00	78.54	10.04	149.46
114	1607.14	4	SLE Q	-107830.00	-1065.17	574.85	0.00	78.54	9.39	139.93
115	1666.67	4	SLE Q	-102636.00	-732.67	395.40	0.00	78.54	8.77	130.96
116	1726.19	4	SLE Q	-97446.50	-463.55	250.17	0.00	78.54	8.19	122.49
117	1785.71	4	SLE Q	-92262.50	-251.99	136.00	0.00	78.54	7.65	114.49
118	1845.24	4	SLE Q	-87083.40	-92.00	49.65	0.00	78.54	7.13	106.91
119	1904.76	4	SLE Q	-81909.00	22.54	-12.17	0.00	78.54	6.67	100.05
120	1964.29	4	SLE Q	-76739.00	97.77	-52.76	0.00	78.54	6.29	94.35
121	2023.81	4	SLE Q	-71573.20	139.80	-75.45	0.00	78.54	5.90	88.38
122	2083.33	4	SLE Q	-66411.10	154.74	-83.51	0.00	78.54	5.49	82.21
123	2142.86	4	SLE Q	-61252.70	148.61	-80.20	0.00	78.54	5.07	75.87
124	2202.38	4	SLE Q	-56097.50	127.38	-68.75	0.00	78.54	4.63	69.42
125	2261.90	4	SLE Q	-50945.30	96.96	-52.33	0.00	78.54	4.20	62.89
126	2321.43	4	SLE Q	-45795.90	63.21	-34.11	0.00	78.54	3.76	56.34
127	2380.95	4	SLE Q	-40648.90	31.94	-17.24	0.00	78.54	3.32	49.82
128	2440.48	4	SLE Q	-35504.10	8.95	-4.83	0.00	78.54	2.89	43.36
129	2500.00	4	SLE Q	-30361.20	0.00	0.00	0.00	78.54	2.47	37.02

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
7	SLU N cost - min. sic.
48	C.Rare - Sf min (max compr.)
49	C.Rare - Sc min (max compr.)
86	C.Rare - Sc max (min. compr.),C.Rare - Sf max (max traz.)
91	C.Q.Per. - Sf min (max compr.)
92	C.Q.Per. - Sc min (max compr.)
129	C.Q.Per. - Sc max (min. compr.),C.Q.Per. - Sf max (max traz.)

Palo n. 26

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 26 (-155)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	287771.00	6009.55	641.18	20713.80	28716.10
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	287771.00	6009.55	641.18	20713.80	28716.10
2	2	SLE R	RVN	213163.00	4451.52	474.95	15343.50	21271.20
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	213163.00	4451.52	474.95	15343.50	21271.20
3	3	SLE F	RVN	213163.00	4451.52	474.95	15343.50	21271.20
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	213163.00	4451.52	474.95	15343.50	21271.20
4	4	SLE Q	RVN	213163.00	4451.52	474.95	15343.50	21271.20
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	213163.00	4451.52	474.95	15343.50	21271.20

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-287771.00	-6009.55	-641.18	-20713.80	-28716.10
2	2	SLE R	1	-213163.00	-4451.52	-474.95	-15343.50	-21271.20
3	3	SLE F	1	-213163.00	-4451.52	-474.95	-15343.50	-21271.20
4	4	SLE Q	1	-213163.00	-4451.52	-474.95	-15343.50	-21271.20

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-287771.00	20611.40	-28574.10	-287771.00	148994.00	-203222.00	2-3	233.75	7.152
2	59.52	1	SLU	-286978.00	22409.60	-31067.10	-286978.00	148851.00	-203025.00	2-3	233.75	6.572
3	119.05	1	SLU	-283720.00	23649.40	-32785.80	-283720.00	148260.00	-202216.00	2-3	233.75	6.203
4	178.57	1	SLU	-280471.00	24407.80	-33837.20	-280471.00	147671.00	-201407.00	2-3	233.75	5.986
5	238.09	1	SLU	-277230.00	24756.30	-34320.40	-277230.00	147078.00	-200595.00	2-3	233.75	5.878
6	297.62	1	SLU	-273998.00	24761.00	-34326.90	-273998.00	146487.00	-199784.00	2-3	233.75	5.853
7	357.14	1	SLU	-270775.00	24454.80	-33902.40	-270775.00	145897.00	-198975.00	2-3	233.75	5.902
8	416.67	1	SLU	-264076.00	23789.70	-32980.30	-264076.00	144661.00	-197279.00	2-3	233.75	6.016
9	476.19	1	SLU	-257391.00	22815.30	-31629.50	-257391.00	143421.00	-195578.00	2-3	233.75	6.219
10	535.71	1	SLU	-250720.00	21605.60	-29952.50	-250720.00	142178.00	-193872.00	2-3	233.75	6.510
11	595.24	1	SLU	-244062.00	20225.50	-28039.20	-244062.00	140927.00	-192157.00	2-3	233.75	6.893
12	654.76	1	SLU	-237418.00	18731.10	-25967.50	-237418.00	139674.00	-190437.00	2-3	233.75	7.376
13	714.29	1	SLU	-230786.00	17170.60	-23804.10	-230786.00	138416.00	-188711.00	2-3	233.75	7.974
14	773.81	1	SLU	-224167.00	15584.70	-21605.50	-224167.00	137152.00	-186977.00	2-3	233.75	8.704
15	833.33	1	SLU	-217559.00	14007.30	-19418.70	-217559.00	135886.00	-185239.00	2-3	233.75	9.595
16	892.86	1	SLU	-210963.00	12465.90	-17281.80	-210963.00	134615.00	-183495.00	2-3	233.75	10.680
17	952.38	1	SLU	-204379.00	10982.70	-15225.60	-204379.00	133341.00	-181747.00	2-3	233.75	12.007
18	1011.90	1	SLU	-197806.00	9574.77	-13273.80	-2571250.00	132061.00	-179989.00	2-3	233.75	12.999
19	1071.43	1	SLU	-191243.00	8254.88	-11444.00	-2571250.00	130777.00	-178227.00	2-3	233.75	13.445
20	1130.95	1	SLU	-184690.00	7031.93	-9748.56	-2571250.00	129477.00	-176465.00	2-3	233.75	13.922
21	1190.48	1	SLU	-178148.00	5911.57	-8195.38	-2571250.00	127999.00	-174733.00	2-3	233.75	14.433
22	1250.00	1	SLU	-171614.00	4896.64	-6788.35	-2571250.00	126614.00	-172835.00	2-3	233.75	14.983
23	1309.52	1	SLU	-165090.00	3987.64	-5528.17	-2571250.00	125222.00	-170930.00	2-3	233.75	15.575
24	1369.05	1	SLU	-158575.00	3183.08	-4412.80	-2571250.00	123825.00	-169016.00	2-3	233.75	16.215
25	1428.57	1	SLU	-152069.00	2479.94	-3438.01	-2571250.00	122420.00	-167091.00	2-3	233.75	16.908
26	1488.10	1	SLU	-145571.00	1873.90	-2597.84	-2571250.00	121007.00	-165157.00	2-3	233.75	17.663
27	1547.62	1	SLU	-139080.00	1359.66	-1884.93	-2571250.00	119589.00	-163214.00	2-3	233.75	18.488
28	1607.14	1	SLU	-132597.00	931.17	-1290.91	-2571250.00	118170.00	-161255.00	2-3	233.75	19.392
29	1666.67	1	SLU	-126121.00	581.85	-806.64	-2571250.00	116760.00	-159258.00	2-3	233.75	20.387
30	1726.19	1	SLU	-119652.00	304.75	-422.49	-2571250.00	115311.00	-157263.00	2-3	233.75	21.489
31	1785.71	1	SLU	-113189.00	92.69	-128.50	-2571250.00	113851.00	-155262.00	2-3	233.75	22.716
32	1845.24	1	SLU	-106732.00	-61.64	85.45	-2571250.00	-112599.00	153403.00	2-3	53.75	24.091
33	1904.76	1	SLU	-100281.00	-165.57	229.54	-2571250.00	-111110.00	151502.00	2-3	53.75	25.640
34	1964.29	1	SLU	-93835.30	-226.43	313.90	-2571250.00	-109538.00	149543.00	2-3	53.75	27.402
35	2023.81	1	SLU	-87394.70	-251.44	348.57	-2571250.00	-108029.00	147477.00	2-3	53.75	29.421
36	2083.33	1	SLU	-80958.70	-247.76	343.48	-2571250.00	-106514.00	145402.00	2-3	53.75	31.760
37	2142.86	1	SLU	-74527.10	-222.45	308.39	-2571250.00	-104990.00	143314.00	2-3	53.75	34.501
38	2202.38	1	SLU	-68099.60	-182.45	252.93	-2571250.00	-103458.00	141216.00	2-3	53.75	37.757
39	2261.90	1	SLU	-61675.60	-134.62	186.62	-2571250.00	-101919.00	139108.00	2-3	53.75	41.690
40	2321.43	1	SLU	-55255.00	-85.74	118.87	-2571250.00	-100374.00	136990.00	2-3	53.75	46.534
41	2380.95	1	SLU	-48837.30	-42.56	59.00	-2571250.00	-98820.20	134859.00	2-3	53.75	52.649
42	2440.48	1	SLU	-42422.30	-11.75	16.29	-2571250.00	-97260.10	132720.00	2-3	53.75	60.611
43	2500.00	1	SLU	-36009.50	0.00	0.00	-2571250.00					71.405

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6009.55	641.18	0.85	11.31	6043.66	1.00	32294.70	372888.00	32294.70	5.344
2	59.52	1	SLU	4299.62	458.74	0.85	11.31	4324.02	1.00	32294.70	372775.00	32294.70	7.469
3	119.05	1	SLU	2817.44	300.60	0.85	11.31	2833.44	1.00	32294.70	372308.00	32294.70	11.398
4	178.57	1	SLU	1547.68	165.13	0.85	11.31	1556.46	1.00	32294.70	371843.00	32294.70	20.749
5	238.09	1	SLU	474.31	50.61	0.85	11.31	477.00	1.00	32294.70	371378.00	32294.70	67.703
6	297.62	1	SLU	-419.04	-44.71	0.85	11.31	421.41	1.00	32294.70	370915.00	32294.70	76.634
7	357.14	1	SLU	-1380.92	-147.34	0.85	11.31	1388.76	1.00	32294.70	370454.00	32294.70	23.254
8	416.67	1	SLU	-2378.26	-253.75	0.85	11.31	2391.76	1.00	32294.70	369494.00	32294.70	13.502
9	476.19	1	SLU	-3151.21	-336.21	0.85	11.31	3169.09	1.00	32294.70	368537.00	32294.70	10.191
10	535.71	1	SLU	-3726.32	-397.57	0.85	11.31	3747.47	1.00	32294.70	367581.00	32294.70	8.618
11	595.24	1	SLU	-4128.89	-440.53	0.85	11.31	4152.33	1.00	32294.70	366627.00	32294.70	7.778
12	654.76	1	SLU	-4382.73	-467.61	0.85	11.31	4407.60	1.00	32294.70	365676.00	32294.70	7.327
13	714.29	1	SLU	-4510.00	-481.19	0.85	11.31	4535.60	1.00	32294.70	364726.00	32294.70	7.120
14	773.81	1	SLU	-4531.13	-483.44	0.85	11.31	4556.84	1.00	32294.70	363778.00	32294.70	7.087
15	833.33	1	SLU	-4464.73	-476.36	0.85	11.31	4490.07	1.00	32294.70	362831.00	32294.70	7.192
16	892.86	1	SLU	-4327.63	-461.73	0.85	11.31	4352.19	1.00	32294.70	361886.00	32294.70	7.420

17	952.38	1	SLU	-4134.87	-441.16	0.85	11.31	4158.34	1.00	32294.70	360943.00	32294.70	7.766
18	1011.90	1	SLU	-3899.77	-416.08	0.85	11.31	3921.90	1.00	32294.70	360002.00	32294.70	8.234
19	1071.43	1	SLU	-3633.99	-387.72	0.85	11.31	3654.61	1.00	32294.70	359062.00	32294.70	8.837
20	1130.95	1	SLU	-3347.65	-357.17	0.85	11.31	3366.65	1.00	32294.70	358123.00	32294.70	9.593
21	1190.48	1	SLU	-3049.43	-325.35	0.85	11.31	3066.74	1.00	32294.70	357186.00	32294.70	10.531
22	1250.00	1	SLU	-2746.65	-293.05	0.85	11.31	2762.24	1.00	32294.70	356250.00	32294.70	11.691
23	1309.52	1	SLU	-2445.45	-260.91	0.85	11.31	2459.33	1.00	32294.70	355316.00	32294.70	13.132
24	1369.05	1	SLU	-2150.84	-229.48	0.85	11.31	2163.05	1.00	32294.70	354382.00	32294.70	14.930
25	1428.57	1	SLU	-1866.89	-199.19	0.85	11.31	1877.48	1.00	32294.70	353450.00	32294.70	17.201
26	1488.10	1	SLU	-1596.78	-170.37	0.85	11.31	1605.84	1.00	32294.70	352520.00	32294.70	20.111
27	1547.62	1	SLU	-1342.97	-143.29	0.85	11.31	1350.59	1.00	32294.70	351590.00	32294.70	23.912
28	1607.14	1	SLU	-1107.28	-118.14	0.85	11.31	1113.57	1.00	32294.70	350661.00	32294.70	29.001
29	1666.67	1	SLU	-891.00	-95.06	0.85	11.31	896.05	1.00	32294.70	349734.00	32294.70	36.041
30	1726.19	1	SLU	-694.95	-74.15	0.85	11.31	698.89	1.00	32294.70	348807.00	32294.70	46.208
31	1785.71	1	SLU	-519.63	-55.44	0.85	11.31	522.58	1.00	32294.70	347881.00	32294.70	61.799
32	1845.24	1	SLU	-365.25	-38.97	0.85	11.31	367.32	1.00	32294.70	346956.00	32294.70	87.919
33	1904.76	1	SLU	-231.81	-24.73	0.85	11.31	233.12	1.00	32294.70	346032.00	32294.70	>100
34	1964.29	1	SLU	-119.17	-12.71	0.85	11.31	119.84	1.00	32294.70	345109.00	32294.70	>100
35	2023.81	1	SLU	-27.08	-2.89	0.85	11.31	27.24	1.00	32294.70	344186.00	32294.70	>100
36	2083.33	1	SLU	44.72	4.77	0.85	11.31	44.97	1.00	32294.70	343265.00	32294.70	>100
37	2142.86	1	SLU	96.54	10.30	0.85	11.31	97.09	1.00	32294.70	342343.00	32294.70	>100
38	2202.38	1	SLU	128.65	13.73	0.85	11.31	129.38	1.00	32294.70	341423.00	32294.70	>100
39	2261.90	1	SLU	141.28	15.07	0.85	11.31	142.08	1.00	32294.70	340502.00	32294.70	>100
40	2321.43	1	SLU	134.63	14.36	0.85	11.31	135.40	1.00	32294.70	339583.00	32294.70	>100
41	2380.95	1	SLU	108.82	11.61	0.85	11.31	109.44	1.00	32294.70	338664.00	32294.70	>100
42	2440.48	1	SLU	63.94	6.82	0.85	11.31	64.30	1.00	32294.70	337745.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-213163.00	-21166.00	15267.70	0.00	78.54	30.83	443.61
45	59.52	2	SLE R	-212890.00	-23012.70	16599.70	0.00	78.54	31.99	459.30
46	119.05	2	SLE R	-210666.00	-24285.80	17518.10	0.00	78.54	32.62	467.64
47	178.57	2	SLE R	-208450.00	-25064.60	18079.80	0.00	78.54	32.94	471.70
48	238.09	2	SLE R	-206239.00	-25422.50	18338.00	0.00	78.54	32.99	472.11
49	297.62	2	SLE R	-204035.00	-25427.30	18341.50	0.00	78.54	32.81	469.47
50	357.14	2	SLE R	-201838.00	-25112.90	18114.70	0.00	78.54	32.43	464.06
51	416.67	2	SLE R	-196891.00	-24429.80	17622.00	0.00	78.54	31.59	452.10
52	476.19	2	SLE R	-191954.00	-23429.20	16900.20	0.00	78.54	30.56	437.39
53	535.71	2	SLE R	-187028.00	-22187.00	16004.20	0.00	78.54	29.36	420.61
54	595.24	2	SLE R	-182112.00	-20769.80	14981.90	0.00	78.54	28.06	402.31
55	654.76	2	SLE R	-177206.00	-19235.20	13874.90	0.00	78.54	26.68	383.01
56	714.29	2	SLE R	-172309.00	-17632.70	12719.00	0.00	78.54	25.26	363.13
57	773.81	2	SLE R	-167421.00	-16004.10	11544.20	0.00	78.54	23.82	343.04
58	833.33	2	SLE R	-162542.00	-14384.20	10375.70	0.00	78.54	22.39	323.03
59	892.86	2	SLE R	-157672.00	-12801.30	9233.99	0.00	78.54	20.99	303.35
60	952.38	2	SLE R	-152811.00	-11278.20	8135.32	0.00	78.54	19.62	284.20
61	1011.90	2	SLE R	-147958.00	-9832.42	7092.42	0.00	78.54	18.30	265.74
62	1071.43	2	SLE R	-143112.00	-8477.01	6114.72	0.00	78.54	17.04	248.06
63	1130.95	2	SLE R	-138275.00	-7221.16	5208.84	0.00	78.54	15.85	231.27
64	1190.48	2	SLE R	-133444.00	-6070.65	4378.94	0.00	78.54	14.72	215.39
65	1250.00	2	SLE R	-128621.00	-5028.41	3627.14	0.00	78.54	13.66	200.47
66	1309.52	2	SLE R	-123805.00	-4094.94	2953.80	0.00	78.54	12.68	186.49
67	1369.05	2	SLE R	-118995.00	-3268.74	2357.84	0.00	78.54	11.76	173.46
68	1428.57	2	SLE R	-114192.00	-2546.68	1836.99	0.00	78.54	10.91	161.33
69	1488.10	2	SLE R	-109395.00	-1924.33	1388.07	0.00	78.54	10.12	150.08
70	1547.62	2	SLE R	-104604.00	-1396.25	1007.15	0.00	78.54	9.39	139.66
71	1607.14	2	SLE R	-99818.40	-956.23	689.75	0.00	78.54	8.72	130.00
72	1666.67	2	SLE R	-95038.20	-597.51	431.00	0.00	78.54	8.11	121.06
73	1726.19	2	SLE R	-90263.00	-312.95	225.74	0.00	78.54	7.54	112.77
74	1785.71	2	SLE R	-85492.80	-95.18	68.66	0.00	78.54	7.01	105.06
75	1845.24	2	SLE R	-80727.00	63.30	-45.66	0.00	78.54	6.60	98.97
76	1904.76	2	SLE R	-75965.70	170.03	-122.65	0.00	78.54	6.28	94.09
77	1964.29	2	SLE R	-71208.40	232.52	-167.72	0.00	78.54	5.94	88.82
78	2023.81	2	SLE R	-66454.90	258.20	-186.25	0.00	78.54	5.57	83.25
79	2083.33	2	SLE R	-61705.00	254.43	-183.53	0.00	78.54	5.18	77.43
80	2142.86	2	SLE R	-56958.30	228.43	-164.78	0.00	78.54	4.78	71.41
81	2202.38	2	SLE R	-52214.80	187.36	-135.15	0.00	78.54	4.36	65.28
82	2261.90	2	SLE R	-47474.00	138.24	-99.72	0.00	78.54	3.95	59.07
83	2321.43	2	SLE R	-42735.80	88.05	-63.51	0.00	78.54	3.53	52.86
84	2380.95	2	SLE R	-37999.90	43.70	-31.52	0.00	78.54	3.12	46.71
85	2440.48	2	SLE R	-33266.00	12.07	-8.70	0.00	78.54	2.71	40.66
86	2500.00	2	SLE R	-28533.90	0.00	0.00	0.00	78.54	2.32	34.79
87	0.00	4	SLE Q	-213163.00	-21166.00	15267.70	0.00	78.54	30.83	443.61
88	59.52	4	SLE Q	-212890.00	-23012.70	16599.70	0.00	78.54	31.99	459.30
89	119.05	4	SLE Q	-210666.00	-24285.80	17518.10	0.00	78.54	32.62	467.64
90	178.57	4	SLE Q	-208450.00	-25064.60	18079.80	0.00	78.54	32.94	471.70

91	238.09	4	SLE Q	-206239.00	-25422.50	18338.00	0.00	78.54	32.99	472.11
92	297.62	4	SLE Q	-204035.00	-25427.30	18341.50	0.00	78.54	32.81	469.47
93	357.14	4	SLE Q	-201838.00	-25112.90	18114.70	0.00	78.54	32.43	464.06
94	416.67	4	SLE Q	-196891.00	-24429.80	17622.00	0.00	78.54	31.59	452.10
95	476.19	4	SLE Q	-191954.00	-23429.20	16900.20	0.00	78.54	30.56	437.39
96	535.71	4	SLE Q	-187028.00	-22187.00	16004.20	0.00	78.54	29.36	420.61
97	595.24	4	SLE Q	-182112.00	-20769.80	14981.90	0.00	78.54	28.06	402.31
98	654.76	4	SLE Q	-177206.00	-19235.20	13874.90	0.00	78.54	26.68	383.01
99	714.29	4	SLE Q	-172309.00	-17632.70	12719.00	0.00	78.54	25.26	363.13
100	773.81	4	SLE Q	-167421.00	-16004.10	11544.20	0.00	78.54	23.82	343.04
101	833.33	4	SLE Q	-162542.00	-14384.20	10375.70	0.00	78.54	22.39	323.03
102	892.86	4	SLE Q	-157672.00	-12801.30	9233.99	0.00	78.54	20.99	303.35
103	952.38	4	SLE Q	-152811.00	-11278.20	8135.32	0.00	78.54	19.62	284.20
104	1011.90	4	SLE Q	-147958.00	-9832.42	7092.42	0.00	78.54	18.30	265.74
105	1071.43	4	SLE Q	-143112.00	-8477.01	6114.72	0.00	78.54	17.04	248.06
106	1130.95	4	SLE Q	-138275.00	-7221.16	5208.84	0.00	78.54	15.85	231.27
107	1190.48	4	SLE Q	-133444.00	-6070.65	4378.94	0.00	78.54	14.72	215.39
108	1250.00	4	SLE Q	-128621.00	-5028.41	3627.14	0.00	78.54	13.66	200.47
109	1309.52	4	SLE Q	-123805.00	-4094.94	2953.80	0.00	78.54	12.68	186.49
110	1369.05	4	SLE Q	-118995.00	-3268.74	2357.84	0.00	78.54	11.76	173.46
111	1428.57	4	SLE Q	-114192.00	-2546.68	1836.99	0.00	78.54	10.91	161.33
112	1488.10	4	SLE Q	-109395.00	-1924.33	1388.07	0.00	78.54	10.12	150.08
113	1547.62	4	SLE Q	-104604.00	-1396.25	1007.15	0.00	78.54	9.39	139.66
114	1607.14	4	SLE Q	-99818.40	-956.23	689.75	0.00	78.54	8.72	130.00
115	1666.67	4	SLE Q	-95038.20	-597.51	431.00	0.00	78.54	8.11	121.06
116	1726.19	4	SLE Q	-90263.00	-312.95	225.74	0.00	78.54	7.54	112.77
117	1785.71	4	SLE Q	-85492.80	-95.18	68.66	0.00	78.54	7.01	105.06
118	1845.24	4	SLE Q	-80727.00	63.30	-45.66	0.00	78.54	6.60	98.97
119	1904.76	4	SLE Q	-75965.70	170.03	-122.65	0.00	78.54	6.28	94.09
120	1964.29	4	SLE Q	-71208.40	232.52	-167.72	0.00	78.54	5.94	88.82
121	2023.81	4	SLE Q	-66454.90	258.20	-186.25	0.00	78.54	5.57	83.25
122	2083.33	4	SLE Q	-61705.00	254.43	-183.53	0.00	78.54	5.18	77.43
123	2142.86	4	SLE Q	-56958.30	228.43	-164.78	0.00	78.54	4.78	71.41
124	2202.38	4	SLE Q	-52214.80	187.36	-135.15	0.00	78.54	4.36	65.28
125	2261.90	4	SLE Q	-47474.00	138.24	-99.72	0.00	78.54	3.95	59.07
126	2321.43	4	SLE Q	-42735.80	88.05	-63.51	0.00	78.54	3.53	52.86
127	2380.95	4	SLE Q	-37999.90	43.70	-31.52	0.00	78.54	3.12	46.71
128	2440.48	4	SLE Q	-33266.00	12.07	-8.70	0.00	78.54	2.71	40.66
129	2500.00	4	SLE Q	-28533.90	0.00	0.00	0.00	78.54	2.32	34.79

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
6	SLU N cost - min. sic.
48	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
49	C.Rare - Sc max (min. compr.)
51	C.Rare - Sf max (max traz.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
92	C.Q.Per. - Sc max (min. compr.)
94	C.Q.Per. - Sf max (max traz.)

Palo n. 27

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 27 (-143)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	253546.00	6224.89	820.64	32975.90	32425.90
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	253546.00	6224.89	820.64	32975.90	32425.90
2	2	SLE R	RVN	187812.00	4611.03	607.88	24426.60	24019.20
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	187812.00	4611.03	607.88	24426.60	24019.20

3	3	SLE F	RVN	187812.00	4611.03	607.88	24426.60	24019.20
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	187812.00	4611.03	607.88	24426.60	24019.20
4	4	SLE Q	RVN	187812.00	4611.03	607.88	24426.60	24019.20
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	187812.00	4611.03	607.88	24426.60	24019.20

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-253546.00	-6224.89	-820.64	-32975.90	-32425.90
2	2	SLE R	1	-187812.00	-4611.03	-607.88	-24426.60	-24019.20
3	3	SLE F	1	-187812.00	-4611.03	-607.88	-24426.60	-24019.20
4	4	SLE Q	1	-187812.00	-4611.03	-607.88	-24426.60	-24019.20

Da 0 a -25

Stato limite ultimo – Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-253546.00	32830.80	-32283.20	-253546.00	172466.00	-169357.00	2-3	224.38	5.250
2	59.52	1	SLU	-252992.00	35060.50	-34475.70	-252992.00	172335.00	-169241.00	2-3	224.38	4.912
3	119.05	1	SLU	-250208.00	36499.30	-35890.50	-250208.00	171676.00	-168660.00	2-3	224.38	4.701
4	178.57	1	SLU	-247432.00	37259.90	-36638.40	-247432.00	171017.00	-168079.00	2-3	224.38	4.589
5	238.09	1	SLU	-244664.00	37446.60	-36822.00	-244664.00	170387.00	-167429.00	2-3	224.38	4.549
6	297.62	1	SLU	-241904.00	37154.90	-36535.10	-241904.00	169763.00	-166769.00	2-3	224.38	4.567
7	357.14	1	SLU	-239151.00	36434.70	-35826.90	-239151.00	169140.00	-166111.00	2-3	224.38	4.639
8	416.67	1	SLU	-233256.00	35224.40	-34636.90	-233256.00	167798.00	-164687.00	2-3	224.38	4.759
9	476.19	1	SLU	-227373.00	33597.20	-33036.90	-227373.00	166453.00	-163260.00	2-3	224.38	4.948
10	535.71	1	SLU	-221503.00	31658.50	-31130.50	-221503.00	165103.00	-161826.00	2-3	224.38	5.207
11	595.24	1	SLU	-215644.00	29500.20	-29008.10	-215644.00	162111.00	-162183.00	2-3	225.00	5.543
12	654.76	1	SLU	-209797.00	27201.60	-26747.90	-209797.00	160727.00	-160747.00	2-3	225.00	5.959
13	714.29	1	SLU	-203961.00	24830.40	-24416.20	-203961.00	159338.00	-159303.00	2-3	225.00	6.470
14	773.81	1	SLU	-198136.00	22443.30	-22069.00	-198136.00	157947.00	-157857.00	2-3	225.00	7.095
15	833.33	1	SLU	-192321.00	20087.30	-19752.20	-192321.00	156549.00	-156402.00	2-3	225.00	7.855
16	892.86	1	SLU	-186517.00	17800.30	-17503.40	-186517.00	155149.00	-154945.00	2-3	225.00	8.783
17	952.38	1	SLU	-180723.00	15612.20	-15351.80	-180723.00	153744.00	-153483.00	2-3	225.00	9.922
18	1011.90	1	SLU	-174939.00	13545.90	-13320.00	-174939.00	152335.00	-152015.00	2-3	225.00	11.328
19	1071.43	1	SLU	-169164.00	11618.10	-11424.30	-169164.00	150924.00	-150544.00	2-3	225.00	13.083
20	1130.95	1	SLU	-163398.00	9840.08	-9675.95	-163398.00	149508.00	-149066.00	2-3	225.00	15.298
21	1190.48	1	SLU	-157641.00	8218.40	-8081.32	-2571250.00	148090.00	-147586.00	2-3	225.00	16.311
22	1250.00	1	SLU	-151892.00	6755.81	-6643.13	-2571250.00	146667.00	-146099.00	2-3	225.00	16.928
23	1309.52	1	SLU	-146152.00	5451.76	-5360.83	-2571250.00	145241.00	-144609.00	2-3	225.00	17.593
24	1369.05	1	SLU	-140419.00	4303.01	-4231.23	-2571250.00	143812.00	-143114.00	2-3	225.00	18.311
25	1428.57	1	SLU	-134694.00	3304.14	-3249.03	-2571250.00	142380.00	-141615.00	2-3	225.00	19.090
26	1488.10	1	SLU	-128976.00	2448.05	-2407.22	-2571250.00	140945.00	-140113.00	2-3	225.00	19.936
27	1547.62	1	SLU	-123265.00	1726.29	-1697.50	-2571250.00	139341.00	-138693.00	2-3	225.00	20.860
28	1607.14	1	SLU	-117560.00	1129.46	-1110.62	-2571250.00	137710.00	-137284.00	2-3	225.00	21.872
29	1666.67	1	SLU	-111862.00	647.48	-636.67	-2571250.00	136066.00	-135872.00	2-3	225.00	22.986
30	1726.19	1	SLU	-106170.00	269.79	-265.29	-2571250.00	134417.00	-134458.00	2-3	225.00	24.218
31	1785.71	1	SLU	-100484.00	-14.39	14.15	-2571250.00	-132875.00	132701.00	2-3	45.00	25.589
32	1845.24	1	SLU	-94802.70	-215.96	212.36	-2571250.00	-131383.00	131089.00	2-3	45.00	27.122
33	1904.76	1	SLU	-89126.80	-345.81	340.04	-2571250.00	-129888.00	129473.00	2-3	45.00	28.849
34	1964.29	1	SLU	-83455.60	-414.74	407.82	-2571250.00	-128382.00	127855.00	2-3	45.00	30.810
35	2023.81	1	SLU	-77789.00	-433.42	426.19	-2571250.00	-126844.00	126243.00	2-3	45.00	33.054
36	2083.33	1	SLU	-72126.50	-412.32	405.45	-2571250.00	-125304.00	124628.00	2-3	45.00	35.649
37	2142.86	1	SLU	-66467.80	-361.79	355.75	-2571250.00	-123759.00	123005.00	2-3	45.00	38.684
38	2202.38	1	SLU	-60812.70	-291.95	287.08	-2571250.00	-122212.00	121380.00	2-3	45.00	42.281
39	2261.90	1	SLU	-55160.90	-212.83	209.28	-2571250.00	-120660.00	119747.00	2-3	45.00	46.614
40	2321.43	1	SLU	-49512.10	-134.30	132.06	-2571250.00	-119020.00	118162.00	2-3	45.00	51.932
41	2380.95	1	SLU	-43865.90	-66.16	65.06	-2571250.00	-117253.00	116641.00	2-3	45.00	58.616
42	2440.48	1	SLU	-38222.00	-18.16	17.86	-2571250.00	-115475.00	115118.00	2-3	45.00	67.271
43	2500.00	1	SLU	-32580.20	0.00	0.00	-2571250.00					78.921

Stato limite ultimo – Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6224.89	820.64	0.85	11.31	6278.75	1.00	32294.70	367986.00	32294.70	5.144
2	59.52	1	SLU	4239.23	558.87	0.85	11.31	4275.91	1.00	32294.70	367906.00	32294.70	7.553
3	119.05	1	SLU	2526.60	333.09	0.85	11.31	2548.47	1.00	32294.70	367508.00	32294.70	12.672
4	178.57	1	SLU	1067.49	140.73	0.85	11.31	1076.73	1.00	32294.70	367110.00	32294.70	29.993
5	238.09	1	SLU	-158.20	-20.86	0.85	11.31	159.57	1.00	32294.70	366714.00	32294.70	>100
6	297.62	1	SLU	-1170.83	-154.35	0.85	11.31	1180.96	1.00	32294.70	366318.00	32294.70	27.346
7	357.14	1	SLU	-2249.97	-296.62	0.85	11.31	2269.43	1.00	32294.70	365924.00	32294.70	14.230

8	416.67	1	SLU	-3357.71	-442.66	0.85	11.31	3386.76	1.00	32294.70	365080.00	32294.70	9.536
9	476.19	1	SLU	-4203.21	-554.12	0.85	11.31	4239.58	1.00	32294.70	364237.00	32294.70	7.617
10	535.71	1	SLU	-4818.54	-635.24	0.85	11.31	4860.23	1.00	32294.70	363396.00	32294.70	6.645
11	595.24	1	SLU	-5234.08	-690.02	0.85	11.31	5279.37	1.00	32294.70	362557.00	32294.70	6.117
12	654.76	1	SLU	-5478.32	-722.22	0.85	11.31	5525.72	1.00	32294.70	361719.00	32294.70	5.844
13	714.29	1	SLU	-5577.63	-735.32	0.85	11.31	5625.89	1.00	32294.70	360883.00	32294.70	5.740
14	773.81	1	SLU	-5556.23	-732.49	0.85	11.31	5604.31	1.00	32294.70	360049.00	32294.70	5.762
15	833.33	1	SLU	-5436.10	-716.66	0.85	11.31	5483.14	1.00	32294.70	359216.00	32294.70	5.890
16	892.86	1	SLU	-5237.01	-690.41	0.85	11.31	5282.33	1.00	32294.70	358385.00	32294.70	6.114
17	952.38	1	SLU	-4976.57	-656.08	0.85	11.31	5019.63	1.00	32294.70	357555.00	32294.70	6.434
18	1011.90	1	SLU	-4670.30	-615.70	0.85	11.31	4710.71	1.00	32294.70	356726.00	32294.70	6.856
19	1071.43	1	SLU	-4331.74	-571.07	0.85	11.31	4369.22	1.00	32294.70	355899.00	32294.70	7.391
20	1130.95	1	SLU	-3972.56	-523.71	0.85	11.31	4006.93	1.00	32294.70	355073.00	32294.70	8.060
21	1190.48	1	SLU	-3602.71	-474.96	0.85	11.31	3633.89	1.00	32294.70	354248.00	32294.70	8.887
22	1250.00	1	SLU	-3230.58	-425.90	0.85	11.31	3258.53	1.00	32294.70	353425.00	32294.70	9.911
23	1309.52	1	SLU	-2863.08	-377.45	0.85	11.31	2887.86	1.00	32294.70	352603.00	32294.70	11.183
24	1369.05	1	SLU	-2505.88	-330.36	0.85	11.31	2527.56	1.00	32294.70	351782.00	32294.70	12.777
25	1428.57	1	SLU	-2163.48	-285.22	0.85	11.31	2182.20	1.00	32294.70	350962.00	32294.70	14.799
26	1488.10	1	SLU	-1839.39	-242.49	0.85	11.31	1855.30	1.00	32294.70	350143.00	32294.70	17.407
27	1547.62	1	SLU	-1536.25	-202.53	0.85	11.31	1549.55	1.00	32294.70	349324.00	32294.70	20.841
28	1607.14	1	SLU	-1255.99	-165.58	0.85	11.31	1266.86	1.00	32294.70	348507.00	32294.70	25.492
29	1666.67	1	SLU	-999.91	-131.82	0.85	11.31	1008.56	1.00	32294.70	347691.00	32294.70	32.021
30	1726.19	1	SLU	-768.81	-101.35	0.85	11.31	775.46	1.00	32294.70	346876.00	32294.70	41.646
31	1785.71	1	SLU	-563.09	-74.23	0.85	11.31	567.96	1.00	32294.70	346061.00	32294.70	56.861
32	1845.24	1	SLU	-382.86	-50.47	0.85	11.31	386.17	1.00	32294.70	345248.00	32294.70	83.628
33	1904.76	1	SLU	-227.99	-30.06	0.85	11.31	229.96	1.00	32294.70	344435.00	32294.70	>100
34	1964.29	1	SLU	-98.20	-12.95	0.85	11.31	99.05	1.00	32294.70	343622.00	32294.70	>100
35	2023.81	1	SLU	6.87	0.91	0.85	11.31	6.93	1.00	32294.70	342811.00	32294.70	>100
36	2083.33	1	SLU	87.64	11.55	0.85	11.31	88.40	1.00	32294.70	341999.00	32294.70	>100
37	2142.86	1	SLU	144.51	19.05	0.85	11.31	145.76	1.00	32294.70	341189.00	32294.70	>100
38	2202.38	1	SLU	177.85	23.45	0.85	11.31	179.38	1.00	32294.70	340379.00	32294.70	>100
39	2261.90	1	SLU	187.96	24.78	0.85	11.31	189.59	1.00	32294.70	339569.00	32294.70	>100
40	2321.43	1	SLU	175.10	23.08	0.85	11.31	176.62	1.00	32294.70	338760.00	32294.70	>100
41	2380.95	1	SLU	139.44	18.38	0.85	11.31	140.64	1.00	32294.70	337951.00	32294.70	>100
42	2440.48	1	SLU	81.05	10.69	0.85	11.31	81.76	1.00	32294.70	337143.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mx <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-187812.00	-23913.50	24319.10	9.42	69.11	32.79	469.02
45	59.52	2	SLE R	-187715.00	-25537.60	25970.70	12.57	65.97	34.07	486.57
46	119.05	2	SLE R	-185843.00	-26585.60	27036.50	15.71	62.83	34.82	496.47
47	178.57	2	SLE R	-183977.00	-27139.60	27599.90	15.71	62.83	35.17	501.06
48	238.09	2	SLE R	-182117.00	-27275.50	27738.20	15.71	62.83	35.17	500.87
49	297.62	2	SLE R	-180262.00	-27063.10	27522.10	15.71	62.83	34.87	496.55
50	357.14	2	SLE R	-178413.00	-26538.50	26988.60	15.71	62.83	34.30	488.51
51	416.67	2	SLE R	-174061.00	-25656.90	26092.20	15.71	62.83	33.26	473.82
52	476.19	2	SLE R	-169719.00	-24471.70	24886.80	15.71	62.83	31.96	455.63
53	535.71	2	SLE R	-165386.00	-23059.60	23450.70	15.71	62.83	30.48	434.97
54	595.24	2	SLE R	-161061.00	-21487.50	21852.00	9.42	69.11	28.89	412.80
55	654.76	2	SLE R	-156746.00	-19813.20	20149.30	9.42	69.11	27.25	389.90
56	714.29	2	SLE R	-152438.00	-18086.10	18392.90	0.00	78.54	25.60	366.88
57	773.81	2	SLE R	-148139.00	-16347.40	16624.70	0.00	78.54	23.98	344.14
58	833.33	2	SLE R	-143848.00	-14631.30	14879.50	0.00	78.54	22.37	321.74
59	892.86	2	SLE R	-139564.00	-12965.50	13185.40	0.00	78.54	20.81	299.86
60	952.38	2	SLE R	-135288.00	-11371.70	11564.60	0.00	78.54	19.30	278.70
61	1011.90	2	SLE R	-131019.00	-9866.65	10034.00	0.00	78.54	17.85	258.44
62	1071.43	2	SLE R	-126758.00	-8462.48	8606.03	0.00	78.54	16.48	239.20
63	1130.95	2	SLE R	-122503.00	-7167.37	7288.95	0.00	78.54	15.19	221.06
64	1190.48	2	SLE R	-118254.00	-5986.16	6087.71	0.00	78.54	13.98	204.06
65	1250.00	2	SLE R	-114012.00	-4920.83	5004.31	0.00	78.54	12.86	188.23
66	1309.52	2	SLE R	-109776.00	-3970.98	4038.34	0.00	78.54	11.82	173.56
67	1369.05	2	SLE R	-105546.00	-3134.25	3187.41	0.00	78.54	10.87	160.04
68	1428.57	2	SLE R	-101322.00	-2406.69	2447.51	0.00	78.54	9.99	147.61
69	1488.10	2	SLE R	-97102.80	-1783.12	1813.37	0.00	78.54	9.19	136.23
70	1547.62	2	SLE R	-92889.10	-1257.40	1278.73	0.00	78.54	8.47	125.83
71	1607.14	2	SLE R	-88680.30	-822.68	836.64	0.00	78.54	7.81	116.35
72	1666.67	2	SLE R	-84476.30	-471.61	479.61	0.00	78.54	7.21	107.72
73	1726.19	2	SLE R	-80276.80	-196.51	199.84	0.00	78.54	6.67	99.84
74	1785.71	2	SLE R	-76081.70	10.48	-10.66	0.00	78.54	6.19	92.87
75	1845.24	2	SLE R	-71890.60	157.30	-159.97	0.00	78.54	5.96	89.23
76	1904.76	2	SLE R	-67703.30	251.88	-256.15	0.00	78.54	5.69	85.07
77	1964.29	2	SLE R	-63519.70	302.09	-307.21	0.00	78.54	5.38	80.48
78	2023.81	2	SLE R	-59339.50	315.69	-321.05	0.00	78.54	5.05	75.52
79	2083.33	2	SLE R	-55162.50	300.33	-305.43	0.00	78.54	4.70	70.27
80	2142.86	2	SLE R	-50988.50	263.52	-267.99	0.00	78.54	4.34	64.81
81	2202.38	2	SLE R	-46817.10	212.66	-216.26	0.00	78.54	3.96	59.21

82	2261.90	2	SLE R	-42648.30	155.02	-157.65	0.00	78.54	3.58	53.55
83	2321.43	2	SLE R	-38481.80	97.82	-99.48	0.00	78.54	3.20	47.90
84	2380.95	2	SLE R	-34317.40	48.19	-49.01	0.00	78.54	2.82	42.32
85	2440.48	2	SLE R	-30154.70	13.23	-13.45	0.00	78.54	2.46	36.90
86	2500.00	2	SLE R	-25993.70	0.00	0.00	0.00	78.54	2.11	31.69
87	0.00	4	SLE Q	-187812.00	-23913.50	24319.10	9.42	69.11	32.79	469.02
88	59.52	4	SLE Q	-187715.00	-25537.60	25970.70	12.57	65.97	34.07	486.57
89	119.05	4	SLE Q	-185843.00	-26585.60	27036.50	15.71	62.83	34.82	496.47
90	178.57	4	SLE Q	-183977.00	-27139.60	27599.90	15.71	62.83	35.17	501.06
91	238.09	4	SLE Q	-182117.00	-27275.50	27738.20	15.71	62.83	35.17	500.87
92	297.62	4	SLE Q	-180262.00	-27063.10	27522.10	15.71	62.83	34.87	496.55
93	357.14	4	SLE Q	-178413.00	-26538.50	26988.60	15.71	62.83	34.30	488.51
94	416.67	4	SLE Q	-174061.00	-25656.90	26092.20	15.71	62.83	33.26	473.82
95	476.19	4	SLE Q	-169719.00	-24471.70	24886.80	15.71	62.83	31.96	455.63
96	535.71	4	SLE Q	-165386.00	-23059.60	23450.70	15.71	62.83	30.48	434.97
97	595.24	4	SLE Q	-161061.00	-21487.50	21852.00	9.42	69.11	28.89	412.80
98	654.76	4	SLE Q	-156746.00	-19813.20	20149.30	9.42	69.11	27.25	389.90
99	714.29	4	SLE Q	-152438.00	-18086.10	18392.90	0.00	78.54	25.60	366.88
100	773.81	4	SLE Q	-148139.00	-16347.40	16624.70	0.00	78.54	23.98	344.14
101	833.33	4	SLE Q	-143848.00	-14631.30	14879.50	0.00	78.54	22.37	321.74
102	892.86	4	SLE Q	-139564.00	-12965.50	13185.40	0.00	78.54	20.81	299.86
103	952.38	4	SLE Q	-135288.00	-11371.70	11564.60	0.00	78.54	19.30	278.70
104	1011.90	4	SLE Q	-131019.00	-9866.65	10034.00	0.00	78.54	17.85	258.44
105	1071.43	4	SLE Q	-126758.00	-8462.48	8606.03	0.00	78.54	16.48	239.20
106	1130.95	4	SLE Q	-122503.00	-7167.37	7288.95	0.00	78.54	15.19	221.06
107	1190.48	4	SLE Q	-118254.00	-5986.16	6087.71	0.00	78.54	13.98	204.06
108	1250.00	4	SLE Q	-114012.00	-4920.83	5004.31	0.00	78.54	12.86	188.23
109	1309.52	4	SLE Q	-109776.00	-3970.98	4038.34	0.00	78.54	11.82	173.56
110	1369.05	4	SLE Q	-105546.00	-3134.25	3187.41	0.00	78.54	10.87	160.04
111	1428.57	4	SLE Q	-101322.00	-2406.69	2447.51	0.00	78.54	9.99	147.61
112	1488.10	4	SLE Q	-97102.80	-1783.12	1813.37	0.00	78.54	9.19	136.23
113	1547.62	4	SLE Q	-92889.10	-1257.40	1278.73	0.00	78.54	8.47	125.83
114	1607.14	4	SLE Q	-88680.30	-822.68	836.64	0.00	78.54	7.81	116.35
115	1666.67	4	SLE Q	-84476.30	-471.61	479.61	0.00	78.54	7.21	107.72
116	1726.19	4	SLE Q	-80276.80	-196.51	199.84	0.00	78.54	6.67	99.84
117	1785.71	4	SLE Q	-76081.70	10.48	-10.66	0.00	78.54	6.19	92.87
118	1845.24	4	SLE Q	-71890.60	157.30	-159.97	0.00	78.54	5.96	89.23
119	1904.76	4	SLE Q	-67703.30	251.88	-256.15	0.00	78.54	5.69	85.07
120	1964.29	4	SLE Q	-63519.70	302.09	-307.21	0.00	78.54	5.38	80.48
121	2023.81	4	SLE Q	-59339.50	315.69	-321.05	0.00	78.54	5.05	75.52
122	2083.33	4	SLE Q	-55162.50	300.33	-305.43	0.00	78.54	4.70	70.27
123	2142.86	4	SLE Q	-50988.50	263.52	-267.99	0.00	78.54	4.34	64.81
124	2202.38	4	SLE Q	-46817.10	212.66	-216.26	0.00	78.54	3.96	59.21
125	2261.90	4	SLE Q	-42648.30	155.02	-157.65	0.00	78.54	3.58	53.55
126	2321.43	4	SLE Q	-38481.80	97.82	-99.48	0.00	78.54	3.20	47.90
127	2380.95	4	SLE Q	-34317.40	48.19	-49.01	0.00	78.54	2.82	42.32
128	2440.48	4	SLE Q	-30154.70	13.23	-13.45	0.00	78.54	2.46	36.90
129	2500.00	4	SLE Q	-25993.70	0.00	0.00	0.00	78.54	2.11	31.69

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ϵ_{sm}	Wk <mm>
90	178.57	4	SLE Q	-183977.00	27599.90	-27139.60	46.00	136.36	0.50	20.00	212.54	3.14	189.34	58.47	0.02	0.01
91	238.09	4	SLE Q	-182117.00	27738.20	-27275.50	46.00	136.36	0.50	20.00	222.45	3.14	204.91	63.59	0.02	0.01
92	297.62	4	SLE Q	-180262.00	27522.10	-27063.10	46.00	136.36	0.50	20.00	224.06	3.14	207.44	63.87	0.02	0.01
93	357.14	4	SLE Q	-178413.00	26988.60	-26538.50	46.00	136.36	0.50	20.00	217.93	3.14	197.81	59.75	0.02	0.01
94	416.67	4	SLE Q	-174061.00	26092.20	-25656.90	46.00	136.36	0.50	20.00	212.04	3.14	188.56	55.05	0.02	0.01
95	476.19	4	SLE Q	-169719.00	24886.80	-24471.70	46.00	136.36	0.50	20.00	198.30	3.14	166.98	46.30	0.01	0.00
133	178.57	3	SLE F	-183977.00	27599.90	-27139.60	46.00	136.36	0.50	20.00	212.54	3.14	189.34	58.47	0.02	0.01
134	238.09	3	SLE F	-182117.00	27738.20	-27275.50	46.00	136.36	0.50	20.00	222.45	3.14	204.91	63.59	0.02	0.01
135	297.62	3	SLE F	-180262.00	27522.10	-27063.10	46.00	136.36	0.50	20.00	224.06	3.14	207.44	63.87	0.02	0.01
136	357.14	3	SLE F	-178413.00	26988.60	-26538.50	46.00	136.36	0.50	20.00	217.93	3.14	197.81	59.75	0.02	0.01
137	416.67	3	SLE F	-174061.00	26092.20	-25656.90	46.00	136.36	0.50	20.00	212.04	3.14	188.56	55.05	0.02	0.01
138	476.19	3	SLE F	-169719.00	24886.80	-24471.70	46.00	136.36	0.50	20.00	198.30	3.14	166.98	46.30	0.01	0.00

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
47	C.Rare - Sf min (max compr.)
48	C.Rare - Sc min (max compr.)
49	C.Rare - Sf max (max traz.)
57	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sf min (max compr.)
91	C.Q.Per. - Sc min (max compr.)
92	C.Q.Per. - Sf max (max traz.),C.Q.Per. - Wk Max
100	C.Q.Per. - Sc max (min. compr.)

135	C.Freq - Wk Max

Palo n. 28

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 28 (-127)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	212189.00	6476.40	929.59	44873.60	30881.60
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	212189.00	6476.40	929.59	44873.60	30881.60
2	2	SLE R	RVN	157177.00	4797.33	688.59	33239.70	22875.20
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	157177.00	4797.33	688.59	33239.70	22875.20
3	3	SLE F	RVN	157177.00	4797.33	688.59	33239.70	22875.20
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	157177.00	4797.33	688.59	33239.70	22875.20
4	4	SLE Q	RVN	157177.00	4797.33	688.59	33239.70	22875.20
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	157177.00	4797.33	688.59	33239.70	22875.20

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-212189.00	-6476.40	-929.59	-44873.60	-30881.60
2	2	SLE R	1	-157177.00	-4797.33	-688.59	-33239.70	-22875.20
3	3	SLE F	1	-157177.00	-4797.33	-688.59	-33239.70	-22875.20
4	4	SLE Q	1	-157177.00	-4797.33	-688.59	-33239.70	-22875.20

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-212189.00	44686.90	-30753.10	-212189.00	186851.00	-130640.00	2-3	215.00	4.203
2	59.52	1	SLU	-211922.00	47335.00	-32575.50	-211922.00	186776.00	-130590.00	2-3	215.00	3.966
3	119.05	1	SLU	-209712.00	48966.70	-33698.50	-209712.00	186147.00	-130173.00	2-3	215.00	3.821
4	178.57	1	SLU	-207509.00	49729.40	-34223.30	-207509.00	185516.00	-129755.00	2-3	215.00	3.750
5	238.09	1	SLU	-205312.00	49758.80	-34243.50	-205312.00	184887.00	-129338.00	2-3	215.00	3.735
6	297.62	1	SLU	-203122.00	49179.40	-33844.80	-203122.00	184261.00	-128924.00	2-3	215.00	3.767
7	357.14	1	SLU	-200938.00	48057.30	-33072.60	-200938.00	183633.00	-128507.00	2-3	215.00	3.842
8	416.67	1	SLU	-196013.00	46318.20	-31875.70	-196013.00	182211.00	-127567.00	2-3	215.00	3.956
9	476.19	1	SLU	-191100.00	44057.60	-30320.00	-191100.00	180790.00	-126627.00	2-3	215.00	4.127
10	535.71	1	SLU	-186196.00	41411.40	-28499.00	-186196.00	179362.00	-125684.00	2-3	215.00	4.357
11	595.24	1	SLU	-181303.00	38498.00	-26494.00	-181303.00	177933.00	-124741.00	2-3	215.00	4.650
12	654.76	1	SLU	-176419.00	35419.20	-24375.20	-176419.00	177837.00	-121795.00	2-3	214.38	5.013
13	714.29	1	SLU	-171545.00	32261.40	-22202.00	-171545.00	176397.00	-120855.00	2-3	214.38	5.460
14	773.81	1	SLU	-166680.00	29097.10	-20024.30	-166680.00	174953.00	-119913.00	2-3	214.38	6.005
15	833.33	1	SLU	-161824.00	25985.70	-17883.10	-161824.00	173506.00	-118970.00	2-3	214.38	6.669
16	892.86	1	SLU	-156976.00	22975.20	-15811.30	-156976.00	172056.00	-118025.00	2-3	214.38	7.481
17	952.38	1	SLU	-152137.00	20103.30	-13834.90	-152137.00	170602.00	-117080.00	2-3	214.38	8.479
18	1011.90	1	SLU	-147307.00	17398.30	-11973.40	-147307.00	169146.00	-116134.00	2-3	214.38	9.715
19	1071.43	1	SLU	-142484.00	14880.80	-10240.80	-142484.00	167686.00	-115187.00	2-3	214.38	11.262
20	1130.95	1	SLU	-137668.00	12564.20	-8646.58	-137668.00	166223.00	-114239.00	2-3	214.38	13.224
21	1190.48	1	SLU	-132860.00	10456.20	-7195.85	-132860.00	164757.00	-113290.00	2-3	214.38	15.753
22	1250.00	1	SLU	-128060.00	8559.30	-5890.43	-128060.00	163289.00	-112340.00	2-3	214.38	19.076
23	1309.52	1	SLU	-123266.00	6872.00	-4729.25	-2571250.00	161816.00	-111389.00	2-3	214.38	20.859
24	1369.05	1	SLU	-118478.00	5389.33	-3708.89	-2571250.00	160390.00	-110283.00	2-3	214.38	21.702
25	1428.57	1	SLU	-113698.00	4103.58	-2824.05	-2571250.00	158964.00	-109157.00	2-3	214.38	22.615

26	1488.10	1	SLU	-108923.00	3004.91	-2067.95	-2571250.00	157536.00	-108029.00	2-3	214.38	23.606
27	1547.62	1	SLU	-104154.00	2081.85	-1432.71	-2571250.00	154909.00	-108553.00	2-3	215.00	24.687
28	1607.14	1	SLU	-99390.30	1321.72	-909.60	-2571250.00	153481.00	-107408.00	2-3	215.00	25.870
29	1666.67	1	SLU	-94632.20	711.04	-489.33	-2571250.00	152050.00	-106257.00	2-3	215.00	27.171
30	1726.19	1	SLU	-89879.20	235.78	-162.26	-2571250.00	150617.00	-105103.00	2-3	215.00	28.608
31	1785.71	1	SLU	-85131.00	-118.35	81.45	-2571250.00	-149783.00	102830.00	2-3	34.38	30.203
32	1845.24	1	SLU	-80387.40	-365.74	251.70	-2571250.00	-148217.00	101818.00	2-3	34.38	31.986
33	1904.76	1	SLU	-75648.10	-520.72	358.35	-2571250.00	-146649.00	100804.00	2-3	34.38	33.990
34	1964.29	1	SLU	-70912.80	-597.48	411.18	-2571250.00	-145076.00	99788.40	2-3	34.38	36.259
35	2023.81	1	SLU	-66181.40	-609.99	419.79	-2571250.00	-143500.00	98770.50	2-3	34.38	38.852
36	2083.33	1	SLU	-61453.50	-572.00	393.65	-2571250.00	-141921.00	97751.00	2-3	34.38	41.841
37	2142.86	1	SLU	-56728.90	-496.99	342.02	-2571250.00	-140337.00	96729.40	2-3	34.38	45.325
38	2202.38	1	SLU	-52007.30	-398.21	274.04	-2571250.00	-138751.00	95706.40	2-3	34.38	49.440
39	2261.90	1	SLU	-47288.50	-288.72	198.69	-2571250.00	-137160.00	94681.40	2-3	34.38	54.374
40	2321.43	1	SLU	-42572.30	-181.41	124.85	-2571250.00	-135621.00	93496.40	2-3	34.38	60.397
41	2380.95	1	SLU	-37858.40	-89.06	61.29	-2571250.00	-134088.00	92276.00	2-3	34.38	67.918
42	2440.48	1	SLU	-33146.40	-24.37	16.77	-2571250.00	-132553.00	91053.30	2-3	34.38	77.572
43	2500.00	1	SLU	-28436.30	0.00	0.00	-2571250.00					90.421

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6476.40	929.59	0.85	11.31	6542.77	1.00	32294.70	362062.00	32294.70	4.936
2	59.52	1	SLU	4268.41	612.67	0.85	11.31	4312.16	1.00	32294.70	362024.00	32294.70	7.489
3	119.05	1	SLU	2369.07	340.05	0.85	11.31	2393.35	1.00	32294.70	361707.00	32294.70	13.493
4	178.57	1	SLU	755.69	108.47	0.85	11.31	763.43	1.00	32294.70	361392.00	32294.70	42.302
5	238.09	1	SLU	-594.98	-85.40	0.85	11.31	601.08	1.00	32294.70	361077.00	32294.70	53.728
6	297.62	1	SLU	-1706.35	-244.92	0.85	11.31	1723.84	1.00	32294.70	360763.00	32294.70	18.734
7	357.14	1	SLU	-2883.94	-413.95	0.85	11.31	2913.50	1.00	32294.70	360450.00	32294.70	11.085
8	416.67	1	SLU	-4085.92	-586.47	0.85	11.31	4127.80	1.00	32294.70	359745.00	32294.70	7.824
9	476.19	1	SLU	-4995.31	-717.00	0.85	11.31	5046.50	1.00	32294.70	359041.00	32294.70	6.399
10	535.71	1	SLU	-5648.49	-810.76	0.85	11.31	5706.38	1.00	32294.70	358339.00	32294.70	5.659
11	595.24	1	SLU	-6079.86	-872.67	0.85	11.31	6142.17	1.00	32294.70	357638.00	32294.70	5.258
12	654.76	1	SLU	-6321.58	-907.37	0.85	11.31	6386.36	1.00	32294.70	356938.00	32294.70	5.057
13	714.29	1	SLU	-6403.36	-919.11	0.85	11.31	6468.98	1.00	32294.70	356240.00	32294.70	4.992
14	773.81	1	SLU	-6352.41	-911.79	0.85	11.31	6417.51	1.00	32294.70	355543.00	32294.70	5.032
15	833.33	1	SLU	-6193.40	-888.97	0.85	11.31	6256.87	1.00	32294.70	354848.00	32294.70	5.161
16	892.86	1	SLU	-5948.44	-853.81	0.85	11.31	6009.41	1.00	32294.70	354153.00	32294.70	5.374
17	952.38	1	SLU	-5637.21	-809.14	0.85	11.31	5694.98	1.00	32294.70	353460.00	32294.70	5.671
18	1011.90	1	SLU	-5276.99	-757.43	0.85	11.31	5331.07	1.00	32294.70	352768.00	32294.70	6.058
19	1071.43	1	SLU	-4882.82	-700.86	0.85	11.31	4932.87	1.00	32294.70	352077.00	32294.70	6.547
20	1130.95	1	SLU	-4467.66	-641.27	0.85	11.31	4513.45	1.00	32294.70	351388.00	32294.70	7.155
21	1190.48	1	SLU	-4042.50	-580.24	0.85	11.31	4083.93	1.00	32294.70	350699.00	32294.70	7.908
22	1250.00	1	SLU	-3616.55	-519.10	0.85	11.31	3653.62	1.00	32294.70	350011.00	32294.70	8.839
23	1309.52	1	SLU	-3197.44	-458.94	0.85	11.31	3230.21	1.00	32294.70	349325.00	32294.70	9.998
24	1369.05	1	SLU	-2791.32	-400.65	0.85	11.31	2819.93	1.00	32294.70	348639.00	32294.70	11.452
25	1428.57	1	SLU	-2403.10	-344.93	0.85	11.31	2427.73	1.00	32294.70	347954.00	32294.70	13.303
26	1488.10	1	SLU	-2036.55	-292.32	0.85	11.31	2057.42	1.00	32294.70	347270.00	32294.70	15.697
27	1547.62	1	SLU	-1694.51	-243.22	0.85	11.31	1711.88	1.00	32294.70	346587.00	32294.70	18.865
28	1607.14	1	SLU	-1378.99	-197.93	0.85	11.31	1393.12	1.00	32294.70	345905.00	32294.70	23.182
29	1666.67	1	SLU	-1091.32	-156.64	0.85	11.31	1102.51	1.00	32294.70	345223.00	32294.70	29.292
30	1726.19	1	SLU	-832.31	-119.47	0.85	11.31	840.84	1.00	32294.70	344542.00	32294.70	38.408
31	1785.71	1	SLU	-602.30	-86.45	0.85	11.31	608.48	1.00	32294.70	343862.00	32294.70	53.075
32	1845.24	1	SLU	-401.33	-57.60	0.85	11.31	405.44	1.00	32294.70	343183.00	32294.70	79.654
33	1904.76	1	SLU	-229.17	-32.89	0.85	11.31	231.51	1.00	32294.70	342504.00	32294.70	>100
34	1964.29	1	SLU	-85.45	-12.26	0.85	11.31	86.32	1.00	32294.70	341826.00	32294.70	>100
35	2023.81	1	SLU	30.29	4.35	0.85	11.31	30.61	1.00	32294.70	341148.00	32294.70	>100
36	2083.33	1	SLU	118.56	17.02	0.85	11.31	119.78	1.00	32294.70	340471.00	32294.70	>100
37	2142.86	1	SLU	179.84	25.81	0.85	11.31	181.69	1.00	32294.70	339794.00	32294.70	>100
38	2202.38	1	SLU	214.58	30.80	0.85	11.31	216.78	1.00	32294.70	339118.00	32294.70	>100
39	2261.90	1	SLU	223.14	32.03	0.85	11.31	225.42	1.00	32294.70	338442.00	32294.70	>100
40	2321.43	1	SLU	205.80	29.54	0.85	11.31	207.91	1.00	32294.70	337766.00	32294.70	>100
41	2380.95	1	SLU	162.77	23.36	0.85	11.31	164.44	1.00	32294.70	337091.00	32294.70	>100
42	2440.48	1	SLU	94.15	13.51	0.85	11.31	95.12	1.00	32294.70	336416.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-157177.00	-22780.10	33101.40	21.99	56.55	35.01	491.95
45	59.52	2	SLE R	-157293.00	-24130.00	35063.00	25.13	53.41	36.80	515.70
46	119.05	2	SLE R	-155846.00	-24961.80	36271.70	28.27	50.27	37.91	530.20
47	178.57	2	SLE R	-154404.00	-25350.60	36836.60	28.27	50.27	38.44	536.92
48	238.09	2	SLE R	-152967.00	-25365.60	36858.40	28.27	50.27	38.44	536.69
49	297.62	2	SLE R	-151534.00	-25070.20	36429.20	28.27	50.27	38.00	530.57
50	357.14	2	SLE R	-150107.00	-24498.20	35598.00	28.27	50.27	37.16	519.20
51	416.67	2	SLE R	-146474.00	-23611.60	34309.70	28.27	50.27	35.84	501.13
52	476.19	2	SLE R	-142850.00	-22459.30	32635.20	28.27	50.27	34.16	478.22

33	335.71	2	Sud	-109233.00	-21110.30	30373.10	25.12	33.41	30.24	422.04
34	335.24	2	Sud	-109624.00	-19023.20	28117.10	21.99	36.33	30.17	422.06
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
38	832.10	2	Sud	-1.7682.00	-11712.10	170.8.70	1.14	75.40	20.27	210.60
39	832.38	2	Sud	-1.4113.00	-10048.10	1410.1.30	0.00	78.14	18.62	207.88
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
44	1607.14	2	Sud	-77221.00	-872.78	979.30	0.00	78.14	6.72	100.05
45	1666.37	2	Sud	-7.713.00	-382.67	226.69	0.00	78.14	6.16	8.02
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
49	1066.29	2	Sud	-34223.00	304.58	-442.58	0.00	78.14	4.69	69.89
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
54	2261.90	2	Sud	-26810.00	147.18	-210.87	0.00	78.14	3.13	46.72
55	2321.43	2	Sud	-27341.00	90.68	-124.38	0.00	78.14	2.78	41.50
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
59	0.00	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
60	39.22	4	Sud	-137203.00	-26130.00	32062.90	25.12	33.41	30.80	210.70
61	40.01	4	Sud	-137963.00	-26961.80	33071.70	25.27	30.07	37.31	230.20
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
65	41.07	4	Sud	-144674.00	-23011.80	34303.70	25.27	30.07	32.84	201.13
66	476.19	4	Sud	-142850.00	-22413.30	32023.20	25.27	30.07	34.16	478.22
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
69	773.81	4	Sud	-124831.00	-14132.80	21133.60	12.71	62.33	23.03	333.12
70	803.33	4	Sud	-12.257.00	-13246.80	19248.70	12.27	65.97	22.03	312.01
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
75	1139.92	4	Sud	-102664.00	-6404.87	9306.83	0.00	78.14	14.03	203.36
76	1139.41	4	Sud	-99809.40	-5230.28	7747.32	0.00	78.14	12.08	187.73
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
82	1485.10	4	Sud	-82261.70	-1131.82	2223.80	0.00	78.14	3.08	113.23
83	1347.02	4	Sud	-78732.70	-1016.27	1742.11	0.00	78.14	2.77	103.12
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
88	1845.24	4	Sud	-6.211.30	136.66	-270.92	0.00	78.14	3.13	76.05
89	1304.73	4	Sud	-37719.10	233.45	-383.72	0.00	78.14	4.93	72.67
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
93	1842.83	4	Sud	-42774.40	222.35	-368.14	0.00	78.14	3.78	26.52
94	2202.31	4	Sud	-40284.60	202.00	-294.97	0.00	78.14	3.46	21.65
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

129	2500.00	4	SLE Q	-22924.20	0.00	0.00	0.00	78.54	1.86	27.95						

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-157177.00	33101.40	-22780.10	46.00	136.36	0.50	20.00	173.19	9.42	382.58	130.96	0.04	0.01
88	59.52	4	SLE Q	-157293.00	35063.00	-24130.00	46.00	136.36	0.50	20.00	188.62	9.42	455.31	163.83	0.05	0.02
89	119.05	4	SLE Q	-155846.00	36271.70	-24961.80	46.00	136.36	0.50	20.00	173.64	12.57	512.94	190.51	0.06	0.02
90	178.57	4	SLE Q	-154404.00	36836.60	-25350.60	46.00	136.36	0.50	20.00	179.00	12.57	546.66	206.29	0.06	0.02
91	238.09	4	SLE Q	-152967.00	36858.40	-25365.60	46.00	136.36	0.50	20.00	181.18	12.57	560.33	211.68	0.06	0.02
92	297.62	4	SLE Q	-151534.00	36429.20	-25070.20	46.00	136.36	0.50	20.00	180.67	12.57	557.16	208.00	0.06	0.02
93	357.14	4	SLE Q	-150107.00	35598.00	-24498.20	46.00	136.36	0.50	20.00	177.70	12.57	538.48	196.33	0.06	0.02
94	416.67	4	SLE Q	-146474.00	34309.70	-23611.60	46.00	136.36	0.50	20.00	175.02	12.57	521.63	183.26	0.05	0.02
95	476.19	4	SLE Q	-142850.00	32635.20	-22459.30	46.00	136.36	0.50	20.00	195.54	9.42	487.94	163.13	0.05	0.02
96	535.71	4	SLE Q	-139233.00	30675.10	-21110.30	46.00	136.36	0.50	20.00	185.36	9.42	439.94	138.66	0.04	0.01
97	595.24	4	SLE Q	-135624.00	28517.10	-19625.20	46.00	136.36	0.50	20.00	172.77	9.42	380.62	112.28	0.03	0.01
98	654.76	4	SLE Q	-132022.00	26236.40	-18055.70	46.00	136.36	0.50	20.00	158.46	9.42	313.20	85.96	0.03	0.01
99	714.29	4	SLE Q	-128427.00	23897.30	-16445.90	46.00	136.36	0.50	20.00	168.69	6.28	240.94	61.15	0.02	0.01
130	0.00	3	SLE F	-157177.00	33101.40	-22780.10	46.00	136.36	0.50	20.00	173.19	9.42	382.58	130.96	0.04	0.01
131	59.52	3	SLE F	-157293.00	35063.00	-24130.00	46.00	136.36	0.50	20.00	188.62	9.42	455.31	163.83	0.05	0.02
132	119.05	3	SLE F	-155846.00	36271.70	-24961.80	46.00	136.36	0.50	20.00	173.64	12.57	512.94	190.51	0.06	0.02
133	178.57	3	SLE F	-154404.00	36836.60	-25350.60	46.00	136.36	0.50	20.00	179.00	12.57	546.66	206.29	0.06	0.02
134	238.09	3	SLE F	-152967.00	36858.40	-25365.60	46.00	136.36	0.50	20.00	181.18	12.57	560.33	211.68	0.06	0.02
135	297.62	3	SLE F	-151534.00	36429.20	-25070.20	46.00	136.36	0.50	20.00	180.67	12.57	557.16	208.00	0.06	0.02
136	357.14	3	SLE F	-150107.00	35598.00	-24498.20	46.00	136.36	0.50	20.00	177.70	12.57	538.48	196.33	0.06	0.02
137	416.67	3	SLE F	-146474.00	34309.70	-23611.60	46.00	136.36	0.50	20.00	175.02	12.57	521.63	183.26	0.05	0.02
138	476.19	3	SLE F	-142850.00	32635.20	-22459.30	46.00	136.36	0.50	20.00	195.54	9.42	487.94	163.13	0.05	0.02
139	535.71	3	SLE F	-139233.00	30675.10	-21110.30	46.00	136.36	0.50	20.00	185.36	9.42	439.94	138.66	0.04	0.01
140	595.24	3	SLE F	-135624.00	28517.10	-19625.20	46.00	136.36	0.50	20.00	172.77	9.42	380.62	112.28	0.03	0.01
141	654.76	3	SLE F	-132022.00	26236.40	-18055.70	46.00	136.36	0.50	20.00	158.46	9.42	313.20	85.96	0.03	0.01
142	714.29	3	SLE F	-128427.00	23897.30	-16445.90	46.00	136.36	0.50	20.00	168.69	6.28	240.94	61.15	0.02	0.01

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
47	C.Rare - Sf min (max compr.)
48	C.Rare - Sc min (max compr.),C.Rare - Sf max (max traz.)
61	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sf min (max compr.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf max (max traz.),C.Q.Per. - Wk Max
104	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 29

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 29 (-81)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	166267.00	6757.66	963.45	54146.30	25252.60
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	166267.00	6757.66	963.45	54146.30	25252.60
2	2	SLE R	RVN	123161.00	5005.68	713.67	40108.40	18705.60
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	123161.00	5005.68	713.67	40108.40	18705.60
3	3	SLE F	RVN	123161.00	5005.68	713.67	40108.40	18705.60
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	123161.00	5005.68	713.67	40108.40	18705.60
4	4	SLE Q	RVN	123161.00	5005.68	713.67	40108.40	18705.60
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00

	4	SLE Q	TOT	123161.00	5005.68	713.67	40108.40	18705.60

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-166267.00	-6757.66	-963.45	-54146.30	-25252.60
2	2	SLE R	1	-123161.00	-5005.68	-713.67	-40108.40	-18705.60
3	3	SLE F	1	-123161.00	-5005.68	-713.67	-40108.40	-18705.60
4	4	SLE Q	1	-123161.00	-5005.68	-713.67	-40108.40	-18705.60

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-166267.00	53926.00	-25149.80	-166267.00	192445.00	-89846.80	2-3	205.00	3.569
2	59.52	1	SLU	-166320.00	56947.00	-26558.70	-166320.00	192462.00	-89854.90	2-3	205.00	3.380
3	119.05	1	SLU	-164747.00	58768.50	-27408.20	-164747.00	191946.00	-89612.80	2-3	205.00	3.267
4	178.57	1	SLU	-163179.00	59565.70	-27780.00	-163179.00	191432.00	-89371.40	2-3	205.00	3.214
5	238.09	1	SLU	-161616.00	59499.80	-27749.30	-161616.00	190917.00	-89129.60	2-3	205.00	3.209
6	297.62	1	SLU	-160059.00	58718.30	-27384.80	-160059.00	190402.00	-88887.70	2-3	205.00	3.243
7	357.14	1	SLU	-158506.00	57300.20	-26723.40	-158506.00	189889.00	-88646.60	2-3	205.00	3.315
8	416.67	1	SLU	-154660.00	55160.00	-25725.30	-154660.00	188616.00	-88049.00	2-3	205.00	3.420
9	476.19	1	SLU	-150823.00	52411.30	-24443.40	-150823.00	187340.00	-87449.30	2-3	205.00	3.575
10	535.71	1	SLU	-146993.00	49214.80	-22952.60	-146993.00	186063.00	-86848.90	2-3	205.00	3.781
11	595.24	1	SLU	-143172.00	45710.10	-21318.10	-143172.00	184785.00	-86248.30	2-3	205.00	4.043
12	654.76	1	SLU	-139358.00	42017.20	-19595.80	-139358.00	183503.00	-85645.10	2-3	205.00	4.368
13	714.29	1	SLU	-135551.00	38238.00	-17833.30	-135551.00	182222.00	-85042.70	2-3	205.00	4.766
14	773.81	1	SLU	-131752.00	34457.70	-16070.20	-131752.00	180936.00	-84437.60	2-3	205.00	5.252
15	833.33	1	SLU	-127960.00	30746.20	-14339.30	-127960.00	179651.00	-83832.50	2-3	205.00	5.844
16	892.86	1	SLU	-124175.00	27159.60	-12666.60	-124175.00	178364.00	-83215.00	2-3	205.00	6.568
17	952.38	1	SLU	-120397.00	23741.80	-11072.60	-120397.00	177076.00	-82582.30	2-3	205.00	7.458
18	1011.90	1	SLU	-116625.00	20526.20	-9572.91	-116625.00	175779.00	-81960.30	2-3	205.00	8.563
19	1071.43	1	SLU	-112859.00	17536.20	-8178.45	-112859.00	174469.00	-81343.10	2-3	205.00	9.949
20	1130.95	1	SLU	-109099.00	14787.40	-6896.48	-109099.00	173159.00	-80725.90	2-3	205.00	11.709
21	1190.48	1	SLU	-105345.00	12288.30	-5730.99	-105345.00	171849.00	-80108.40	2-3	205.00	13.984
22	1250.00	1	SLU	-101597.00	10041.70	-4683.19	-101597.00	170535.00	-79488.80	2-3	205.00	16.981
23	1309.52	1	SLU	-97854.00	8045.11	-3752.05	-97854.00	169224.00	-78870.90	2-3	205.00	21.032
24	1369.05	1	SLU	-94116.50	6292.44	-2934.64	-94116.50	167905.00	-78248.70	2-3	205.00	26.680
25	1428.57	1	SLU	-90384.00	4774.20	-2226.57	-2571250.00	166586.00	-77627.20	2-3	205.00	28.448
26	1488.10	1	SLU	-86656.30	3478.45	-1622.26	-2571250.00	165269.00	-77006.00	2-3	205.00	29.672
27	1547.62	1	SLU	-82933.30	2391.33	-1115.26	-2571250.00	163946.00	-76382.20	2-3	205.00	31.004
28	1607.14	1	SLU	-79214.70	1497.63	-698.46	-2571250.00	162623.00	-75758.70	2-3	205.00	32.459
29	1666.67	1	SLU	-75500.40	781.17	-364.32	-2571250.00	161300.00	-75134.60	2-3	205.00	34.056
30	1726.19	1	SLU	-71790.20	225.18	-105.02	-2571250.00	159973.00	-74508.90	2-3	205.00	35.816
31	1785.71	1	SLU	-68083.80	-187.42	87.41	-2571250.00	-158680.00	74011.40	2-3	25.00	37.766
32	1845.24	1	SLU	-64381.00	-473.77	220.96	-2571250.00	-157320.00	73371.40	2-3	25.00	39.938
33	1904.76	1	SLU	-60681.70	-650.97	303.60	-2571250.00	-155957.00	72730.10	2-3	25.00	42.373
34	1964.29	1	SLU	-56985.60	-735.89	343.20	-2571250.00	-154594.00	72088.50	2-3	25.00	45.121
35	2023.81	1	SLU	-53292.60	-745.17	347.53	-2571250.00	-153224.00	71444.10	2-3	25.00	48.248
36	2083.33	1	SLU	-49602.50	-695.13	324.19	-2571250.00	-151854.00	70799.90	2-3	25.00	51.837
37	2142.86	1	SLU	-45915.00	-601.79	280.66	-2571250.00	-150479.00	70153.60	2-3	25.00	56.000
38	2202.38	1	SLU	-42230.00	-480.91	224.28	-2571250.00	-149102.00	69506.40	2-3	25.00	60.887
39	2261.90	1	SLU	-38547.30	-347.97	162.29	-2571250.00	-147724.00	68858.50	2-3	25.00	66.704
40	2321.43	1	SLU	-34866.60	-218.29	101.81	-2571250.00	-146340.00	68208.60	2-3	25.00	73.745
41	2380.95	1	SLU	-31187.80	-107.03	49.92	-2571250.00	-144955.00	67558.50	2-3	25.00	82.444
42	2440.48	1	SLU	-27510.70	-29.26	13.65	-2571250.00	-143566.00	66906.60	2-3	25.00	93.464
43	2500.00	1	SLU	-23835.00	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	6757.66	963.45	0.85	11.31	6826.00	1.00	32294.70	355484.00	32294.70	4.731
2	59.52	1	SLU	4387.84	625.58	0.85	11.31	4432.21	1.00	32294.70	355492.00	32294.70	7.286
3	119.05	1	SLU	2351.48	335.25	0.85	11.31	2375.26	1.00	32294.70	355266.00	32294.70	13.596
4	178.57	1	SLU	623.78	88.93	0.85	11.31	630.09	1.00	32294.70	355042.00	32294.70	51.254
5	238.09	1	SLU	-820.56	-116.99	0.85	11.31	828.86	1.00	32294.70	354818.00	32294.70	38.963
6	297.62	1	SLU	-2007.04	-286.15	0.85	11.31	2027.33	1.00	32294.70	354595.00	32294.70	15.930
7	357.14	1	SLU	-3261.23	-464.96	0.85	11.31	3294.20	1.00	32294.70	354372.00	32294.70	9.803
8	416.67	1	SLU	-4538.37	-647.04	0.85	11.31	4584.26	1.00	32294.70	353822.00	32294.70	7.045
9	476.19	1	SLU	-5501.04	-784.29	0.85	11.31	5556.67	1.00	32294.70	353272.00	32294.70	5.812
10	535.71	1	SLU	-6188.62	-882.32	0.85	11.31	6251.20	1.00	32294.70	352723.00	32294.70	5.166
11	595.24	1	SLU	-6638.28	-946.43	0.85	11.31	6705.41	1.00	32294.70	352176.00	32294.70	4.816
12	654.76	1	SLU	-6884.74	-981.57	0.85	11.31	6954.36	1.00	32294.70	351630.00	32294.70	4.644
13	714.29	1	SLU	-6960.08	-992.31	0.85	11.31	7030.46	1.00	32294.70	351084.00	32294.70	4.594

14	773.81	1	SLU	-6893.61	-982.83	0.85	11.31	6963.32	1.00	32294.70	350540.00	32294.70	4.638
15	833.33	1	SLU	-6711.90	-956.92	0.85	11.31	6779.77	1.00	32294.70	349997.00	32294.70	4.763
16	892.86	1	SLU	-6438.75	-917.98	0.85	11.31	6503.86	1.00	32294.70	349455.00	32294.70	4.965
17	952.38	1	SLU	-6095.31	-869.02	0.85	11.31	6156.95	1.00	32294.70	348914.00	32294.70	5.245
18	1011.90	1	SLU	-5700.15	-812.68	0.85	11.31	5757.79	1.00	32294.70	348373.00	32294.70	5.609
19	1071.43	1	SLU	-5269.41	-751.27	0.85	11.31	5322.70	1.00	32294.70	347834.00	32294.70	6.067
20	1130.95	1	SLU	-4816.97	-686.76	0.85	11.31	4865.68	1.00	32294.70	347295.00	32294.70	6.637
21	1190.48	1	SLU	-4354.60	-620.84	0.85	11.31	4398.64	1.00	32294.70	346758.00	32294.70	7.342
22	1250.00	1	SLU	-3892.17	-554.91	0.85	11.31	3931.53	1.00	32294.70	346221.00	32294.70	8.214
23	1309.52	1	SLU	-3437.79	-490.13	0.85	11.31	3472.55	1.00	32294.70	345685.00	32294.70	9.300
24	1369.05	1	SLU	-2998.03	-427.43	0.85	11.31	3028.35	1.00	32294.70	345149.00	32294.70	10.664
25	1428.57	1	SLU	-2578.10	-367.56	0.85	11.31	2604.17	1.00	32294.70	344615.00	32294.70	12.401
26	1488.10	1	SLU	-2182.01	-311.09	0.85	11.31	2204.08	1.00	32294.70	344081.00	32294.70	14.652
27	1547.62	1	SLU	-1812.74	-258.44	0.85	11.31	1831.07	1.00	32294.70	343547.00	32294.70	17.637
28	1607.14	1	SLU	-1472.41	-209.92	0.85	11.31	1487.30	1.00	32294.70	343015.00	32294.70	21.714
29	1666.67	1	SLU	-1162.39	-165.72	0.85	11.31	1174.15	1.00	32294.70	342483.00	32294.70	27.505
30	1726.19	1	SLU	-883.51	-125.96	0.85	11.31	892.45	1.00	32294.70	341951.00	32294.70	36.187
31	1785.71	1	SLU	-636.10	-90.69	0.85	11.31	642.53	1.00	32294.70	341420.00	32294.70	50.262
32	1845.24	1	SLU	-420.15	-59.90	0.85	11.31	424.39	1.00	32294.70	340890.00	32294.70	76.096
33	1904.76	1	SLU	-235.39	-33.56	0.85	11.31	237.77	1.00	32294.70	340360.00	32294.70	>100
34	1964.29	1	SLU	-81.40	-11.61	0.85	11.31	82.22	1.00	32294.70	339831.00	32294.70	>100
35	2023.81	1	SLU	42.35	6.04	0.85	11.31	42.78	1.00	32294.70	339302.00	32294.70	>100
36	2083.33	1	SLU	136.42	19.45	0.85	11.31	137.80	1.00	32294.70	338773.00	32294.70	>100
37	2142.86	1	SLU	201.34	28.71	0.85	11.31	203.38	1.00	32294.70	338245.00	32294.70	>100
38	2202.38	1	SLU	237.61	33.88	0.85	11.31	240.01	1.00	32294.70	337717.00	32294.70	>100
39	2261.90	1	SLU	245.63	35.02	0.85	11.31	248.11	1.00	32294.70	337190.00	32294.70	>100
40	2321.43	1	SLU	225.70	32.18	0.85	11.31	227.99	1.00	32294.70	336662.00	32294.70	>100
41	2380.95	1	SLU	178.05	25.39	0.85	11.31	179.85	1.00	32294.70	336135.00	32294.70	>100
42	2440.48	1	SLU	102.80	14.66	0.85	11.31	103.84	1.00	32294.70	335609.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-123161.00	-18629.50	39945.20	31.42	47.12	37.87	527.45
45	59.52	2	SLE R	-123513.00	-19673.10	42182.90	37.70	40.84	40.20	558.37
46	119.05	2	SLE R	-122538.00	-20302.40	43532.20	37.70	40.84	41.69	577.72
47	178.57	2	SLE R	-121567.00	-20577.80	44122.70	37.70	40.84	42.38	586.50
48	238.09	2	SLE R	-120599.00	-20555.00	44073.90	37.70	40.84	42.37	586.17
49	297.62	2	SLE R	-119636.00	-20285.00	43495.00	37.70	40.84	41.78	578.23
50	357.14	2	SLE R	-118676.00	-19795.10	42444.60	37.70	40.84	40.69	563.56
51	416.67	2	SLE R	-115842.00	-19055.80	40859.20	37.70	40.84	39.10	541.97
52	476.19	2	SLE R	-113015.00	-18106.20	38823.20	37.70	40.84	37.03	514.07
53	535.71	2	SLE R	-110194.00	-17001.90	36455.40	31.42	47.12	34.63	481.76
54	595.24	2	SLE R	-107378.00	-15791.20	33859.30	31.42	47.12	32.02	446.73
55	654.76	2	SLE R	-104569.00	-14515.40	31123.80	31.42	47.12	29.34	410.53
56	714.29	2	SLE R	-101765.00	-13209.80	28324.40	31.42	47.12	26.68	374.49
57	773.81	2	SLE R	-98966.10	-11903.90	25524.20	25.13	53.41	24.11	339.73
58	833.33	2	SLE R	-96172.90	-10621.70	22774.90	25.13	53.41	21.72	307.11
59	892.86	2	SLE R	-93384.80	-9382.64	20118.20	18.85	59.69	19.53	277.16
60	952.38	2	SLE R	-90601.80	-8201.95	17586.50	18.85	59.69	17.57	250.13
61	1011.90	2	SLE R	-87823.60	-7091.04	15204.60	12.57	65.97	15.82	226.04
62	1071.43	2	SLE R	-85050.10	-6058.11	12989.80	0.00	78.54	14.28	204.64
63	1130.95	2	SLE R	-82281.10	-5108.51	10953.60	0.00	78.54	12.90	185.40
64	1190.48	2	SLE R	-79516.60	-4245.18	9102.47	0.00	78.54	11.62	167.65
65	1250.00	2	SLE R	-76756.40	-3469.03	7438.27	0.00	78.54	10.46	151.36
66	1309.52	2	SLE R	-74000.20	-2779.30	5959.34	0.00	78.54	9.39	136.51
67	1369.05	2	SLE R	-71248.10	-2173.81	4661.07	0.00	78.54	8.43	123.07
68	1428.57	2	SLE R	-68499.70	-1649.31	3536.45	0.00	78.54	7.57	110.99
69	1488.10	2	SLE R	-65755.00	-1201.68	2576.63	0.00	78.54	6.81	100.19
70	1547.62	2	SLE R	-63013.90	-826.12	1771.36	0.00	78.54	6.13	90.59
71	1607.14	2	SLE R	-60276.10	-517.38	1109.36	0.00	78.54	5.53	82.11
72	1666.67	2	SLE R	-57541.60	-269.87	578.64	0.00	78.54	5.01	74.65
73	1726.19	2	SLE R	-54810.20	-77.79	166.80	0.00	78.54	4.55	68.12
74	1785.71	2	SLE R	-52081.70	64.75	-138.83	0.00	78.54	4.31	64.57
75	1845.24	2	SLE R	-49356.00	163.67	-350.94	0.00	78.54	4.21	62.88
76	1904.76	2	SLE R	-46632.90	224.88	-482.20	0.00	78.54	4.06	60.57
77	1964.29	2	SLE R	-43912.30	254.22	-545.11	0.00	78.54	3.88	57.74
78	2023.81	2	SLE R	-41194.10	257.43	-551.98	0.00	78.54	3.66	54.48
79	2083.33	2	SLE R	-38478.10	240.14	-514.91	0.00	78.54	3.42	50.88
80	2142.86	2	SLE R	-35764.20	207.90	-445.77	0.00	78.54	3.16	47.04
81	2202.38	2	SLE R	-33052.20	166.14	-356.23	0.00	78.54	2.89	43.04
82	2261.90	2	SLE R	-30341.90	120.21	-257.76	0.00	78.54	2.61	38.98
83	2321.43	2	SLE R	-27633.30	75.41	-161.70	0.00	78.54	2.34	34.94
84	2380.95	2	SLE R	-24926.20	36.98	-79.28	0.00	78.54	2.07	31.00
85	2440.48	2	SLE R	-22220.40	10.11	-21.67	0.00	78.54	1.82	27.26
86	2500.00	2	SLE R	-19515.80	0.00	0.00	0.00	78.54	1.59	23.79
87	0.00	4	SLE Q	-123161.00	-18629.50	39945.20	31.42	47.12	37.87	527.45

88	59.52	4	SLE Q	-123513.00	-19673.10	42182.90	37.70	40.84	40.20	558.37
89	119.05	4	SLE Q	-122538.00	-20302.40	43532.20	37.70	40.84	41.69	577.72
90	178.57	4	SLE Q	-121567.00	-20577.80	44122.70	37.70	40.84	42.38	586.50
91	238.09	4	SLE Q	-120599.00	-20555.00	44073.90	37.70	40.84	42.37	586.17
92	297.62	4	SLE Q	-119636.00	-20285.00	43495.00	37.70	40.84	41.78	578.23
93	357.14	4	SLE Q	-118676.00	-19795.10	42444.60	37.70	40.84	40.69	563.56
94	416.67	4	SLE Q	-115842.00	-19055.80	40859.20	37.70	40.84	39.10	541.97
95	476.19	4	SLE Q	-113015.00	-18106.20	38823.20	37.70	40.84	37.03	514.07
96	535.71	4	SLE Q	-110194.00	-17001.90	36455.40	31.42	47.12	34.63	481.76
97	595.24	4	SLE Q	-107378.00	-15791.20	33859.30	31.42	47.12	32.02	446.73
98	654.76	4	SLE Q	-104569.00	-14515.40	31123.80	31.42	47.12	29.34	410.53
99	714.29	4	SLE Q	-101765.00	-13209.80	28324.40	31.42	47.12	26.68	374.49
100	773.81	4	SLE Q	-98966.10	-11903.90	25524.20	25.13	53.41	24.11	339.73
101	833.33	4	SLE Q	-96172.90	-10621.70	22774.90	25.13	53.41	21.72	307.11
102	892.86	4	SLE Q	-93384.80	-9382.64	20118.20	18.85	59.69	19.53	277.16
103	952.38	4	SLE Q	-90601.80	-8201.95	17586.50	18.85	59.69	17.57	250.13
104	1011.90	4	SLE Q	-87823.60	-7091.04	15204.60	12.57	65.97	15.82	226.04
105	1071.43	4	SLE Q	-85050.10	-6058.11	12989.80	0.00	78.54	14.28	204.64
106	1130.95	4	SLE Q	-82281.10	-5108.51	10953.60	0.00	78.54	12.90	185.40
107	1190.48	4	SLE Q	-79516.60	-4245.18	9102.47	0.00	78.54	11.62	167.65
108	1250.00	4	SLE Q	-76756.40	-3469.03	7438.27	0.00	78.54	10.46	151.36
109	1309.52	4	SLE Q	-74000.20	-2779.30	5959.34	0.00	78.54	9.39	136.51
110	1369.05	4	SLE Q	-71248.10	-2173.81	4661.07	0.00	78.54	8.43	123.07
111	1428.57	4	SLE Q	-68499.70	-1649.31	3536.45	0.00	78.54	7.57	110.99
112	1488.10	4	SLE Q	-65755.00	-1201.68	2576.63	0.00	78.54	6.81	100.19
113	1547.62	4	SLE Q	-63013.90	-826.12	1771.36	0.00	78.54	6.13	90.59
114	1607.14	4	SLE Q	-60276.10	-517.38	1109.36	0.00	78.54	5.53	82.11
115	1666.67	4	SLE Q	-57541.60	-269.87	578.64	0.00	78.54	5.01	74.65
116	1726.19	4	SLE Q	-54810.20	-77.79	166.80	0.00	78.54	4.55	68.12
117	1785.71	4	SLE Q	-52081.70	64.75	-138.83	0.00	78.54	4.31	64.57
118	1845.24	4	SLE Q	-49356.00	163.67	-350.94	0.00	78.54	4.21	62.88
119	1904.76	4	SLE Q	-46632.90	224.88	-482.20	0.00	78.54	4.06	60.57
120	1964.29	4	SLE Q	-43912.30	254.22	-545.11	0.00	78.54	3.88	57.74
121	2023.81	4	SLE Q	-41194.10	257.43	-551.98	0.00	78.54	3.66	54.48
122	2083.33	4	SLE Q	-38478.10	240.14	-514.91	0.00	78.54	3.42	50.88
123	2142.86	4	SLE Q	-35764.20	207.90	-445.77	0.00	78.54	3.16	47.04
124	2202.38	4	SLE Q	-33052.20	166.14	-356.23	0.00	78.54	2.89	43.04
125	2261.90	4	SLE Q	-30341.90	120.21	-257.76	0.00	78.54	2.61	38.98
126	2321.43	4	SLE Q	-27633.30	75.41	-161.70	0.00	78.54	2.34	34.94
127	2380.95	4	SLE Q	-24926.20	36.98	-79.28	0.00	78.54	2.07	31.00
128	2440.48	4	SLE Q	-22220.40	10.11	-21.67	0.00	78.54	1.82	27.26
129	2500.00	4	SLE Q	-19515.80	0.00	0.00	0.00	78.54	1.59	23.79

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-123161.00	39945.20	-18629.50	46.00	136.36	0.50	20.00	180.17	18.85	831.00	326.29	0.10	0.03
88	59.52	4	SLE Q	-123513.00	42182.90	-19673.10	46.00	136.36	0.50	20.00	185.24	18.85	878.77	381.88	0.11	0.04
89	119.05	4	SLE Q	-122538.00	43532.20	-20302.40	46.00	136.36	0.50	20.00	188.73	18.85	911.68	424.67	0.12	0.04
90	178.57	4	SLE Q	-121567.00	44122.70	-20577.80	46.00	136.36	0.50	20.00	190.50	18.85	928.35	447.67	0.13	0.04
91	238.09	4	SLE Q	-120599.00	44073.90	-20555.00	46.00	136.36	0.50	20.00	191.05	18.85	933.53	452.76	0.13	0.04
92	297.62	4	SLE Q	-119636.00	43495.00	-20285.00	46.00	136.36	0.50	20.00	190.64	18.85	929.62	442.65	0.13	0.04
93	357.14	4	SLE Q	-118676.00	42444.60	-19795.10	46.00	136.36	0.50	20.00	189.30	18.85	917.00	419.23	0.12	0.04
94	416.67	4	SLE Q	-115842.00	40859.20	-19055.80	46.00	136.36	0.50	20.00	188.12	18.85	905.91	393.30	0.11	0.04
95	476.19	4	SLE Q	-113015.00	38823.20	-18106.20	46.00	136.36	0.50	20.00	185.78	18.85	883.82	355.44	0.10	0.03
96	535.71	4	SLE Q	-110194.00	36455.40	-17001.90	46.00	136.36	0.50	20.00	182.19	18.85	849.98	309.98	0.09	0.03
97	595.24	4	SLE Q	-107378.00	33859.30	-15791.20	46.00	136.36	0.50	20.00	219.77	12.57	802.78	260.87	0.08	0.03
98	654.76	4	SLE Q	-104569.00	31123.80	-14515.40	46.00	136.36	0.50	20.00	209.69	12.57	739.46	211.56	0.06	0.02
99	714.29	4	SLE Q	-101765.00	28324.40	-13209.80	46.00	136.36	0.50	20.00	194.95	12.57	646.88	164.80	0.05	0.02
100	773.81	4	SLE Q	-98966.10	25524.20	-11903.90	46.00	136.36	0.50	20.00	178.38	12.57	542.74	122.60	0.04	0.01
101	833.33	4	SLE Q	-96172.90	22774.90	-10621.70	46.00	136.36	0.50	20.00	160.61	12.57	431.06	86.14	0.03	0.01
102	892.86	4	SLE Q	-93384.80	20118.20	-9382.64	46.00	136.36	0.50	20.00	192.39	6.28	315.37	55.77	0.02	0.01
103	952.38	4	SLE Q	-90601.80	17586.50	-8201.95	46.00	136.36	0.50	20.00	155.81	6.28	200.47	31.21	0.01	0.00
130	0.00	3	SLE F	-123161.00	39945.20	-18629.50	46.00	136.36	0.50	20.00	180.17	18.85	831.00	326.29	0.10	0.03
131	59.52	3	SLE F	-123513.00	42182.90	-19673.10	46.00	136.36	0.50	20.00	185.24	18.85	878.77	381.88	0.11	0.04
132	119.05	3	SLE F	-122538.00	43532.20	-20302.40	46.00	136.36	0.50	20.00	188.73	18.85	911.68	424.67	0.12	0.04
133	178.57	3	SLE F	-121567.00	44122.70	-20577.80	46.00	136.36	0.50	20.00	190.50	18.85	928.35	447.67	0.13	0.04
134	238.09	3	SLE F	-120599.00	44073.90	-20555.00	46.00	136.36	0.50	20.00	191.05	18.85	933.53	452.76	0.13	0.04
135	297.62	3	SLE F	-119636.00	43495.00	-20285.00	46.00	136.36	0.50	20.00	190.64	18.85	929.62	442.65	0.13	0.04
136	357.14	3	SLE F	-118676.00	42444.60	-19795.10	46.00	136.36	0.50	20.00	189.30	18.85	917.00	419.23	0.12	0.04
137	416.67	3	SLE F	-115842.00	40859.20	-19055.80	46.00	136.36	0.50	20.00	188.12	18.85	905.91	393.30	0.11	0.04
138	476.19	3	SLE F	-113015.00	38823.20	-18106.20	46.00	136.36	0.50	20.00	185.78	18.85	883.82	355.44	0.10	0.03
139	535.71	3	SLE F	-110194.00	36455.40	-17001.90	46.00	136.36	0.50	20.00	182.19	18.85	849.98	309.98	0.09	0.03
140	595.24	3	SLE F	-107378.00	33859.30	-15791.20	46.00	136.36	0.50	20.00	219.77	12.57	802.78	260.87	0.08	0.03
141	654.76	3	SLE F	-104569.00	31123.80	-14515.40	46.00	136.36	0.50	20.00	209.69	12.57	739.46	211.56	0.06	0.02
142	714.29	3	SLE F	-101765.00	28324.40	-13209.80	46.00	136.36	0.50	20.00	194.95	12.57	646.88	164.80	0.05	0.02
143	773.81	3	SLE F	-98966.10	25524.20	-11903.90	46.00	136.36	0.50	20.00	178.38	12.57	542.74	122.60	0.04	0.01

144	833.33	3	SLE F	-96172.90	22774.90	-10621.70	46.00	136.36	0.50	20.00	160.61	12.57	431.06	86.14	0.03	0.01
145	892.86	3	SLE F	-93384.80	20118.20	-9382.64	46.00	136.36	0.50	20.00	192.39	6.28	315.37	55.77	0.02	0.01
146	952.38	3	SLE F	-90601.80	17586.50	-8201.95	46.00	136.36	0.50	20.00	155.81	6.28	200.47	31.21	0.01	0.00

Verifiche principali

Caso	Tipo
5	SLU N cost - min. sic.
13	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
47	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
48	C.Rare - Sf max (max traz.)
63	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
91	C.Q.Per. - Sf max (max traz.),C.Q.Per. - Wk Max
106	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 30

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 30 (-45)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	122242.00	7017.10	919.22	59193.90	17945.20
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	122242.00	7017.10	919.22	59193.90	17945.20
2	2	SLE R	RVN	90549.90	5197.85	680.90	43847.30	13292.70
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	90549.90	5197.85	680.90	43847.30	13292.70
3	3	SLE F	RVN	90549.90	5197.85	680.90	43847.30	13292.70
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	90549.90	5197.85	680.90	43847.30	13292.70
4	4	SLE Q	RVN	90549.90	5197.85	680.90	43847.30	13292.70
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	90549.90	5197.85	680.90	43847.30	13292.70

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-122242.00	-7017.10	-919.22	-59193.90	-17945.20
2	2	SLE R	1	-90549.90	-5197.85	-680.90	-43847.30	-13292.70
3	3	SLE F	1	-90549.90	-5197.85	-680.90	-43847.30	-13292.70
4	4	SLE Q	1	-90549.90	-5197.85	-680.90	-43847.30	-13292.70

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-122242.00	58952.90	-17872.10	-122242.00	187689.00	-56570.80	2-3	196.88	3.182
2	59.52	1	SLU	-122601.00	62260.80	-18874.90	-122601.00	187814.00	-56610.50	2-3	196.88	3.015
3	119.05	1	SLU	-121638.00	64256.70	-19480.00	-121638.00	187478.00	-56504.00	2-3	196.88	2.916
4	178.57	1	SLU	-120680.00	65131.90	-19745.30	-120680.00	187144.00	-56397.90	2-3	196.88	2.872
5	238.09	1	SLU	-119725.00	65062.90	-19724.40	-119725.00	186811.00	-56292.30	2-3	196.88	2.870
6	297.62	1	SLU	-118774.00	64211.10	-19466.20	-118774.00	186477.00	-56186.40	2-3	196.88	2.903
7	357.14	1	SLU	-117827.00	62662.80	-18996.80	-117827.00	186145.00	-56081.00	2-3	196.88	2.969
8	416.67	1	SLU	-115015.00	60324.30	-18287.80	-115015.00	185159.00	-55767.90	2-3	196.88	3.068
9	476.19	1	SLU	-112209.00	57320.00	-17377.10	-112209.00	184160.00	-55477.50	2-3	196.88	3.211
10	535.71	1	SLU	-109409.00	53825.60	-16317.70	-109409.00	183119.00	-55251.20	2-3	196.88	3.401
11	595.24	1	SLU	-106616.00	49993.90	-15156.10	-106616.00	182074.00	-55028.20	2-3	196.88	3.641

12	654.76	1	SLU	-103827.00	45956.10	-13932.00	-103827.00	181030.00	-54804.60	2-3	196.88	3.939
13	714.29	1	SLU	-101045.00	41823.60	-12679.20	-101045.00	179989.00	-54580.40	2-3	196.88	4.304
14	773.81	1	SLU	-98267.40	37689.80	-11426.00	-98267.40	178944.00	-54358.80	2-3	196.88	4.749
15	833.33	1	SLU	-95495.50	33630.90	-10195.50	-95495.50	177898.00	-54138.00	2-3	196.88	5.291
16	892.86	1	SLU	-92728.70	29708.60	-9006.42	-92728.70	176855.00	-53916.50	2-3	196.88	5.956
17	952.38	1	SLU	-89966.80	25970.80	-7873.28	-89966.80	175811.00	-53695.40	2-3	196.88	6.774
18	1011.90	1	SLU	-87209.80	22453.90	-6807.09	-87209.80	175279.00	-51537.20	2-3	196.25	7.787
19	1071.43	1	SLU	-84457.50	19183.70	-5815.71	-84457.50	174232.00	-51322.90	2-3	196.25	9.061
20	1130.95	1	SLU	-81709.60	16177.30	-4904.28	-81709.60	173185.00	-51080.50	2-3	196.25	10.681
21	1190.48	1	SLU	-78966.20	13443.90	-4075.64	-78966.20	172132.00	-50757.20	2-3	196.25	12.775
22	1250.00	1	SLU	-76227.00	10986.50	-3330.65	-76227.00	171080.00	-50433.90	2-3	196.25	15.536
23	1309.52	1	SLU	-73491.90	8802.62	-2668.59	-73491.90	170028.00	-50111.20	2-3	196.25	19.271
24	1369.05	1	SLU	-70760.70	6885.45	-2087.39	-70760.70	168974.00	-49786.60	2-3	196.25	24.483
25	1428.57	1	SLU	-68033.40	5224.67	-1583.90	-68033.40	167918.00	-49461.10	2-3	196.25	32.064
26	1488.10	1	SLU	-65309.60	3807.21	-1154.19	-2571250.00	166864.00	-49136.00	2-3	196.25	39.370
27	1547.62	1	SLU	-62589.40	2617.94	-793.65	-2571250.00	165808.00	-48810.30	2-3	196.25	41.081
28	1607.14	1	SLU	-59872.60	1640.21	-497.24	-2571250.00	164749.00	-48482.40	2-3	196.25	42.945
29	1666.67	1	SLU	-57158.90	856.33	-259.61	-2571250.00	163691.00	-48155.00	2-3	196.25	44.984
30	1726.19	1	SLU	-54448.30	247.98	-75.18	-2571250.00	162633.00	-47827.80	2-3	196.25	47.224
31	1785.71	1	SLU	-51740.70	-203.53	61.70	-2571250.00	-161252.00	48570.30	2-3	16.88	49.695
32	1845.24	1	SLU	-49035.80	-516.95	156.72	-2571250.00	-160218.00	48239.40	2-3	16.88	52.436
33	1904.76	1	SLU	-46333.50	-710.96	215.53	-2571250.00	-159185.00	47908.70	2-3	16.88	55.494
34	1964.29	1	SLU	-43633.70	-804.04	243.75	-2571250.00	-158152.00	47578.10	2-3	16.88	58.928
35	2023.81	1	SLU	-40936.30	-814.36	246.88	-2571250.00	-157117.00	47245.60	2-3	16.88	62.811
36	2083.33	1	SLU	-38241.10	-759.78	230.33	-2571250.00	-156082.00	46913.30	2-3	16.88	67.238
37	2142.86	1	SLU	-35547.90	-657.83	199.43	-2571250.00	-155006.00	46647.40	2-3	16.88	72.332
38	2202.38	1	SLU	-32856.60	-525.73	159.38	-2571250.00	-153910.00	46411.70	2-3	16.88	78.257
39	2261.90	1	SLU	-30167.10	-380.42	115.33	-2571250.00	-152811.00	46178.00	2-3	16.88	85.234
40	2321.43	1	SLU	-27479.20	-238.66	72.35	-2571250.00	-151712.00	45943.30	2-3	16.88	93.571
41	2380.95	1	SLU	-24792.80	-117.02	35.48	-2571250.00	-150613.00	45707.50	2-3	16.88	>100
42	2440.48	1	SLU	-22107.70	-31.99	9.70	-2571250.00	-149508.00	45476.50	2-3	16.88	>100
43	2500.00	1	SLU	-19423.70	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7017.10	919.22	0.85	11.31	7077.05	1.00	32294.70	349178.00	32294.70	4.563
2	59.52	1	SLU	4558.30	597.12	0.85	11.31	4597.25	1.00	32294.70	349229.00	32294.70	7.025
3	119.05	1	SLU	2445.42	320.34	0.85	11.31	2466.31	1.00	32294.70	349091.00	32294.70	13.094
4	178.57	1	SLU	652.75	85.51	0.85	11.31	658.32	1.00	32294.70	348954.00	32294.70	49.056
5	238.09	1	SLU	-845.99	-110.82	0.85	11.31	853.21	1.00	32294.70	348817.00	32294.70	37.851
6	297.62	1	SLU	-2077.20	-272.11	0.85	11.31	2094.94	1.00	32294.70	348681.00	32294.70	15.416
7	357.14	1	SLU	-3378.76	-442.61	0.85	11.31	3407.63	1.00	32294.70	348546.00	32294.70	9.477
8	416.67	1	SLU	-4704.23	-616.24	0.85	11.31	4744.42	1.00	32294.70	348143.00	32294.70	6.807
9	476.19	1	SLU	-5703.44	-747.13	0.85	11.31	5752.17	1.00	32294.70	347741.00	32294.70	5.614
10	535.71	1	SLU	-6417.24	-840.64	0.85	11.31	6472.06	1.00	32294.70	347340.00	32294.70	4.990
11	595.24	1	SLU	-6884.17	-901.81	0.85	11.31	6942.99	1.00	32294.70	346940.00	32294.70	4.651
12	654.76	1	SLU	-7140.27	-935.36	0.85	11.31	7201.28	1.00	32294.70	346540.00	32294.70	4.485
13	714.29	1	SLU	-7218.80	-945.64	0.85	11.31	7280.48	1.00	32294.70	346142.00	32294.70	4.436
14	773.81	1	SLU	-7150.19	-936.65	0.85	11.31	7211.27	1.00	32294.70	345744.00	32294.70	4.478
15	833.33	1	SLU	-6961.98	-912.00	0.85	11.31	7021.46	1.00	32294.70	345347.00	32294.70	4.599
16	892.86	1	SLU	-6678.88	-874.91	0.85	11.31	6735.95	1.00	32294.70	344951.00	32294.70	4.794
17	952.38	1	SLU	-6322.83	-828.27	0.85	11.31	6376.85	1.00	32294.70	344555.00	32294.70	5.064
18	1011.90	1	SLU	-5913.08	-774.60	0.85	11.31	5963.60	1.00	32294.70	344160.00	32294.70	5.415
19	1071.43	1	SLU	-5466.40	-716.08	0.85	11.31	5513.10	1.00	32294.70	343766.00	32294.70	5.858
20	1130.95	1	SLU	-4997.18	-654.62	0.85	11.31	5039.87	1.00	32294.70	343372.00	32294.70	6.408
21	1190.48	1	SLU	-4517.63	-591.80	0.85	11.31	4556.22	1.00	32294.70	342979.00	32294.70	7.088
22	1250.00	1	SLU	-4037.99	-528.97	0.85	11.31	4072.48	1.00	32294.70	342587.00	32294.70	7.930
23	1309.52	1	SLU	-3566.68	-467.23	0.85	11.31	3597.15	1.00	32294.70	342195.00	32294.70	8.978
24	1369.05	1	SLU	-3110.52	-407.47	0.85	11.31	3137.10	1.00	32294.70	341804.00	32294.70	10.294
25	1428.57	1	SLU	-2674.93	-350.41	0.85	11.31	2697.78	1.00	32294.70	341413.00	32294.70	11.971
26	1488.10	1	SLU	-2264.05	-296.58	0.85	11.31	2283.39	1.00	32294.70	341023.00	32294.70	14.143
27	1547.62	1	SLU	-1880.98	-246.40	0.85	11.31	1897.05	1.00	32294.70	340633.00	32294.70	17.024
28	1607.14	1	SLU	-1527.91	-200.15	0.85	11.31	1540.97	1.00	32294.70	340244.00	32294.70	20.957
29	1666.67	1	SLU	-1206.30	-158.02	0.85	11.31	1216.61	1.00	32294.70	339855.00	32294.70	26.545
30	1726.19	1	SLU	-916.97	-120.12	0.85	11.31	924.81	1.00	32294.70	339467.00	32294.70	34.921
31	1785.71	1	SLU	-660.29	-86.50	0.85	11.31	665.93	1.00	32294.70	339079.00	32294.70	48.496
32	1845.24	1	SLU	-436.23	-57.15	0.85	11.31	439.96	1.00	32294.70	338692.00	32294.70	73.404
33	1904.76	1	SLU	-244.54	-32.03	0.85	11.31	246.63	1.00	32294.70	338305.00	32294.70	>100
34	1964.29	1	SLU	-84.76	-11.10	0.85	11.31	85.48	1.00	32294.70	337918.00	32294.70	>100
35	2023.81	1	SLU	43.65	5.72	0.85	11.31	44.02	1.00	32294.70	337532.00	32294.70	>100
36	2083.33	1	SLU	141.27	18.51	0.85	11.31	142.48	1.00	32294.70	337146.00	32294.70	>100
37	2142.86	1	SLU	208.66	27.33	0.85	11.31	210.44	1.00	32294.70	336760.00	32294.70	>100
38	2202.38	1	SLU	246.31	32.27	0.85	11.31	248.42	1.00	32294.70	336374.00	32294.70	>100
39	2261.90	1	SLU	254.67	33.36	0.85	11.31	256.84	1.00	32294.70	335989.00	32294.70	>100
40	2321.43	1	SLU	234.03	30.66	0.85	11.31	236.03	1.00	32294.70	335604.00	32294.70	>100
41	2380.95	1	SLU	184.64	24.19	0.85	11.31	186.22	1.00	32294.70	335219.00	32294.70	>100

42	2440.48	1	SLU	106.61	13.97	0.85	11.31	107.52	1.00	32294.70	334835.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-90549.90	-13238.60	43668.80	40.84	37.70	41.46	607.54
45	59.52	2	SLE R	-91128.60	-13981.40	46119.10	40.84	37.70	44.12	683.53
46	119.05	2	SLE R	-90605.90	-14429.60	47597.50	40.84	37.70	45.80	738.78
47	178.57	2	SLE R	-90086.00	-14626.20	48245.90	40.84	37.70	46.56	766.23
48	238.09	2	SLE R	-89568.90	-14610.70	48194.80	40.84	37.70	46.54	769.64
49	297.62	2	SLE R	-89054.70	-14419.40	47563.80	40.84	37.70	45.88	752.98
50	357.14	2	SLE R	-88543.20	-14071.70	46416.90	40.84	37.70	44.65	718.64
51	416.67	2	SLE R	-86475.50	-13546.50	44684.70	40.84	37.70	42.89	679.75
52	476.19	2	SLE R	-84412.40	-12871.90	42459.30	40.84	37.70	40.58	624.40
53	535.71	2	SLE R	-82353.80	-12087.20	39870.80	40.84	37.70	37.87	557.62
54	595.24	2	SLE R	-80299.60	-11226.70	37032.50	40.84	37.70	34.90	484.04
55	654.76	2	SLE R	-78249.80	-10320.00	34041.50	40.84	37.70	31.78	431.12
56	714.29	2	SLE R	-76204.10	-9392.01	30980.50	37.70	40.84	28.61	389.93
57	773.81	2	SLE R	-74162.50	-8463.70	27918.40	34.56	43.98	25.50	349.25
58	833.33	2	SLE R	-72124.90	-7552.23	24911.80	34.56	43.98	22.52	310.19
59	892.86	2	SLE R	-70091.20	-6671.42	22006.40	31.42	47.12	19.76	273.72
60	952.38	2	SLE R	-68061.20	-5832.06	19237.60	28.27	50.27	17.27	240.62
61	1011.90	2	SLE R	-66034.90	-5042.29	16632.50	25.13	53.41	15.08	211.35
62	1071.43	2	SLE R	-64012.10	-4307.93	14210.20	21.99	56.55	13.20	186.02
63	1130.95	2	SLE R	-61992.70	-3632.80	11983.20	15.71	62.83	11.61	164.42
64	1190.48	2	SLE R	-59976.70	-3018.99	9958.44	3.14	75.40	10.27	146.06
65	1250.00	2	SLE R	-57963.90	-2467.15	8138.14	0.00	78.54	9.11	130.20
66	1309.52	2	SLE R	-55954.20	-1976.74	6520.46	0.00	78.54	8.07	115.92
67	1369.05	2	SLE R	-53947.50	-1546.21	5100.34	0.00	78.54	7.14	103.08
68	1428.57	2	SLE R	-51943.70	-1173.26	3870.13	0.00	78.54	6.31	91.64
69	1488.10	2	SLE R	-49942.70	-854.96	2820.16	0.00	78.54	5.58	81.52
70	1547.62	2	SLE R	-47944.40	-587.89	1939.21	0.00	78.54	4.95	72.64
71	1607.14	2	SLE R	-45948.60	-368.33	1214.97	0.00	78.54	4.39	64.91
72	1666.67	2	SLE R	-43955.30	-192.30	634.32	0.00	78.54	3.92	58.23
73	1726.19	2	SLE R	-41964.40	-55.69	183.69	0.00	78.54	3.51	52.51
74	1785.71	2	SLE R	-39975.70	45.70	-150.76	0.00	78.54	3.33	49.85
75	1845.24	2	SLE R	-37989.10	116.09	-382.92	0.00	78.54	3.29	49.13
76	1904.76	2	SLE R	-36004.60	159.66	-526.64	0.00	78.54	3.21	47.77
77	1964.29	2	SLE R	-34022.00	180.56	-595.58	0.00	78.54	3.09	45.86
78	2023.81	2	SLE R	-32041.30	182.87	-603.23	0.00	78.54	2.93	43.50
79	2083.33	2	SLE R	-30062.20	170.62	-562.80	0.00	78.54	2.75	40.79
80	2142.86	2	SLE R	-28084.80	147.72	-487.28	0.00	78.54	2.55	37.83
81	2202.38	2	SLE R	-26108.90	118.06	-389.43	0.00	78.54	2.33	34.70
82	2261.90	2	SLE R	-24134.40	85.43	-281.80	0.00	78.54	2.11	31.50
83	2321.43	2	SLE R	-22161.20	53.59	-176.79	0.00	78.54	1.90	28.32
84	2380.95	2	SLE R	-20189.10	26.28	-86.68	0.00	78.54	1.69	25.25
85	2440.48	2	SLE R	-18218.20	7.18	-23.70	0.00	78.54	1.49	22.39
86	2500.00	2	SLE R	-16248.20	0.00	0.00	0.00	78.54	1.32	19.81
87	0.00	4	SLE Q	-90549.90	-13238.60	43668.80	40.84	37.70	41.46	607.54
88	59.52	4	SLE Q	-91128.60	-13981.40	46119.10	40.84	37.70	44.12	683.53
89	119.05	4	SLE Q	-90605.90	-14429.60	47597.50	40.84	37.70	45.80	738.78
90	178.57	4	SLE Q	-90086.00	-14626.20	48245.90	40.84	37.70	46.56	766.23
91	238.09	4	SLE Q	-89568.90	-14610.70	48194.80	40.84	37.70	46.54	769.64
92	297.62	4	SLE Q	-89054.70	-14419.40	47563.80	40.84	37.70	45.88	752.98
93	357.14	4	SLE Q	-88543.20	-14071.70	46416.90	40.84	37.70	44.65	718.64
94	416.67	4	SLE Q	-86475.50	-13546.50	44684.70	40.84	37.70	42.89	679.75
95	476.19	4	SLE Q	-84412.40	-12871.90	42459.30	40.84	37.70	40.58	624.40
96	535.71	4	SLE Q	-82353.80	-12087.20	39870.80	40.84	37.70	37.87	557.62
97	595.24	4	SLE Q	-80299.60	-11226.70	37032.50	40.84	37.70	34.90	484.04
98	654.76	4	SLE Q	-78249.80	-10320.00	34041.50	40.84	37.70	31.78	431.12
99	714.29	4	SLE Q	-76204.10	-9392.01	30980.50	37.70	40.84	28.61	389.93
100	773.81	4	SLE Q	-74162.50	-8463.70	27918.40	34.56	43.98	25.50	349.25
101	833.33	4	SLE Q	-72124.90	-7552.23	24911.80	34.56	43.98	22.52	310.19
102	892.86	4	SLE Q	-70091.20	-6671.42	22006.40	31.42	47.12	19.76	273.72
103	952.38	4	SLE Q	-68061.20	-5832.06	19237.60	28.27	50.27	17.27	240.62
104	1011.90	4	SLE Q	-66034.90	-5042.29	16632.50	25.13	53.41	15.08	211.35
105	1071.43	4	SLE Q	-64012.10	-4307.93	14210.20	21.99	56.55	13.20	186.02
106	1130.95	4	SLE Q	-61992.70	-3632.80	11983.20	15.71	62.83	11.61	164.42
107	1190.48	4	SLE Q	-59976.70	-3018.99	9958.44	3.14	75.40	10.27	146.06
108	1250.00	4	SLE Q	-57963.90	-2467.15	8138.14	0.00	78.54	9.11	130.20
109	1309.52	4	SLE Q	-55954.20	-1976.74	6520.46	0.00	78.54	8.07	115.92
110	1369.05	4	SLE Q	-53947.50	-1546.21	5100.34	0.00	78.54	7.14	103.08
111	1428.57	4	SLE Q	-51943.70	-1173.26	3870.13	0.00	78.54	6.31	91.64
112	1488.10	4	SLE Q	-49942.70	-854.96	2820.16	0.00	78.54	5.58	81.52
113	1547.62	4	SLE Q	-47944.40	-587.89	1939.21	0.00	78.54	4.95	72.64
114	1607.14	4	SLE Q	-45948.60	-368.33	1214.97	0.00	78.54	4.39	64.91
115	1666.67	4	SLE Q	-43955.30	-192.30	634.32	0.00	78.54	3.92	58.23

116	1726.19	4	SLE Q	-41964.40	-55.69	183.69	0.00	78.54	3.51	52.51
117	1785.71	4	SLE Q	-39975.70	45.70	-150.76	0.00	78.54	3.33	49.85
118	1845.24	4	SLE Q	-37989.10	116.09	-382.92	0.00	78.54	3.29	49.13
119	1904.76	4	SLE Q	-36004.60	159.66	-526.64	0.00	78.54	3.21	47.77
120	1964.29	4	SLE Q	-34022.00	180.56	-595.58	0.00	78.54	3.09	45.86
121	2023.81	4	SLE Q	-32041.30	182.87	-603.23	0.00	78.54	2.93	43.50
122	2083.33	4	SLE Q	-30062.20	170.62	-562.80	0.00	78.54	2.75	40.79
123	2142.86	4	SLE Q	-28084.80	147.72	-487.28	0.00	78.54	2.55	37.83
124	2202.38	4	SLE Q	-26108.90	118.06	-389.43	0.00	78.54	2.33	34.70
125	2261.90	4	SLE Q	-24134.40	85.43	-281.80	0.00	78.54	2.11	31.50
126	2321.43	4	SLE Q	-22161.20	53.59	-176.79	0.00	78.54	1.90	28.32
127	2380.95	4	SLE Q	-20189.10	26.28	-86.68	0.00	78.54	1.69	25.25
128	2440.48	4	SLE Q	-18218.20	7.18	-23.70	0.00	78.54	1.49	22.39
129	2500.00	4	SLE Q	-16248.20	0.00	0.00	0.00	78.54	1.32	19.81

Stato limite d'esercizio – Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-90549.90	43668.80	-13238.60	46.00	136.36	0.50	20.00	203.81	18.85	1053.77	607.54	0.18	0.06
88	59.52	4	SLE Q	-91128.60	46119.10	-13981.40	46.00	136.36	0.50	20.00	189.89	21.99	1076.32	683.53	0.20	0.06
89	119.05	4	SLE Q	-90605.90	47597.50	-14429.60	46.00	136.36	0.50	20.00	191.34	21.99	1092.35	738.78	0.22	0.07
90	178.57	4	SLE Q	-90086.00	48245.90	-14626.20	46.00	136.36	0.50	20.00	192.06	21.99	1100.18	766.23	0.22	0.07
91	238.09	4	SLE Q	-89568.90	48194.80	-14610.70	46.00	136.36	0.50	20.00	192.23	21.99	1102.05	769.64	0.22	0.07
92	297.62	4	SLE Q	-89054.70	47563.80	-14419.40	46.00	136.36	0.50	20.00	191.96	21.99	1099.09	752.98	0.22	0.07
93	357.14	4	SLE Q	-88543.20	46416.90	-14071.70	46.00	136.36	0.50	20.00	191.27	21.99	1091.48	718.64	0.21	0.07
94	416.67	4	SLE Q	-86475.50	44684.70	-13546.50	46.00	136.36	0.50	20.00	190.71	21.99	1085.41	679.75	0.20	0.06
95	476.19	4	SLE Q	-84412.40	42459.30	-12871.90	46.00	136.36	0.50	20.00	189.64	21.99	1073.57	624.40	0.18	0.06
96	535.71	4	SLE Q	-82353.80	39870.80	-12087.20	46.00	136.36	0.50	20.00	204.01	18.85	1055.67	557.62	0.16	0.06
97	595.24	4	SLE Q	-80299.60	37032.50	-11226.70	46.00	136.36	0.50	20.00	201.38	18.85	1030.89	484.04	0.14	0.05
98	654.76	4	SLE Q	-78249.80	34041.50	-10320.00	46.00	136.36	0.50	20.00	219.05	15.71	997.87	407.83	0.12	0.04
99	714.29	4	SLE Q	-76204.10	30980.50	-9392.01	46.00	136.36	0.50	20.00	213.56	15.71	954.70	332.70	0.10	0.04
100	773.81	4	SLE Q	-74162.50	27918.40	-8463.70	46.00	136.36	0.50	20.00	206.44	15.71	898.81	261.85	0.08	0.03
101	833.33	4	SLE Q	-72124.90	24911.80	-7552.23	46.00	136.36	0.50	20.00	197.23	15.71	826.49	197.93	0.06	0.02
102	892.86	4	SLE Q	-70091.20	22006.40	-6671.42	46.00	136.36	0.50	20.00	183.57	15.71	719.20	142.83	0.04	0.01
103	952.38	4	SLE Q	-68061.20	19237.60	-5832.06	46.00	136.36	0.50	20.00	183.27	12.57	573.46	97.53	0.03	0.01
104	1011.90	4	SLE Q	-66034.90	16632.50	-5042.29	46.00	136.36	0.50	20.00	180.87	9.42	418.78	61.87	0.02	0.01
105	1071.43	4	SLE Q	-64012.10	14210.20	-4307.93	46.00	136.36	0.50	20.00	177.63	6.28	269.00	34.83	0.01	0.00
130	0.00	3	SLE F	-90549.90	43668.80	-13238.60	46.00	136.36	0.50	20.00	203.81	18.85	1053.77	607.54	0.18	0.06
131	59.52	3	SLE F	-91128.60	46119.10	-13981.40	46.00	136.36	0.50	20.00	189.89	21.99	1076.32	683.53	0.20	0.06
132	119.05	3	SLE F	-90605.90	47597.50	-14429.60	46.00	136.36	0.50	20.00	191.34	21.99	1092.35	738.78	0.22	0.07
133	178.57	3	SLE F	-90086.00	48245.90	-14626.20	46.00	136.36	0.50	20.00	192.06	21.99	1100.18	766.23	0.22	0.07
134	238.09	3	SLE F	-89568.90	48194.80	-14610.70	46.00	136.36	0.50	20.00	192.23	21.99	1102.05	769.64	0.22	0.07
135	297.62	3	SLE F	-89054.70	47563.80	-14419.40	46.00	136.36	0.50	20.00	191.96	21.99	1099.09	752.98	0.22	0.07
136	357.14	3	SLE F	-88543.20	46416.90	-14071.70	46.00	136.36	0.50	20.00	191.27	21.99	1091.48	718.64	0.21	0.07
137	416.67	3	SLE F	-86475.50	44684.70	-13546.50	46.00	136.36	0.50	20.00	190.71	21.99	1085.41	679.75	0.20	0.06
138	476.19	3	SLE F	-84412.40	42459.30	-12871.90	46.00	136.36	0.50	20.00	189.64	21.99	1073.57	624.40	0.18	0.06
139	535.71	3	SLE F	-82353.80	39870.80	-12087.20	46.00	136.36	0.50	20.00	204.01	18.85	1055.67	557.62	0.16	0.06
140	595.24	3	SLE F	-80299.60	37032.50	-11226.70	46.00	136.36	0.50	20.00	201.38	18.85	1030.89	484.04	0.14	0.05
141	654.76	3	SLE F	-78249.80	34041.50	-10320.00	46.00	136.36	0.50	20.00	219.05	15.71	997.87	407.83	0.12	0.04
142	714.29	3	SLE F	-76204.10	30980.50	-9392.01	46.00	136.36	0.50	20.00	213.56	15.71	954.70	332.70	0.10	0.04
143	773.81	3	SLE F	-74162.50	27918.40	-8463.70	46.00	136.36	0.50	20.00	206.44	15.71	898.81	261.85	0.08	0.03
144	833.33	3	SLE F	-72124.90	24911.80	-7552.23	46.00	136.36	0.50	20.00	197.23	15.71	826.49	197.93	0.06	0.02
145	892.86	3	SLE F	-70091.20	22006.40	-6671.42	46.00	136.36	0.50	20.00	183.57	15.71	719.20	142.83	0.04	0.01
146	952.38	3	SLE F	-68061.20	19237.60	-5832.06	46.00	136.36	0.50	20.00	183.27	12.57	573.46	97.53	0.03	0.01
147	1011.90	3	SLE F	-66034.90	16632.50	-5042.29	46.00	136.36	0.50	20.00	180.87	9.42	418.78	61.87	0.02	0.01
148	1071.43	3	SLE F	-64012.10	14210.20	-4307.93	46.00	136.36	0.50	20.00	177.63	6.28	269.00	34.83	0.01	0.00

Verifiche principali

Caso	Tipo
5	SLU N cost - min. sic.
13	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
47	C.Rare - Sc min (max compr.),C.Rare - Sf min (max compr.)
48	C.Rare - Sf max (max traz.)
65	C.Rare - Sc max (min. compr.)
90	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf min (max compr.)
91	C.Q.Per. - Sf max (max traz.),C.Q.Per. - Wk Max
108	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 31

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti

effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 31 (-28)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	80635.20	7265.62	800.64	60527.60	10374.60
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	80635.20	7265.62	800.64	60527.60	10374.60
2	2	SLE R	RVN	59729.80	5381.94	593.07	44835.20	7684.90
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	59729.80	5381.94	593.07	44835.20	7684.90
3	3	SLE F	RVN	59729.80	5381.94	593.07	44835.20	7684.90
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	59729.80	5381.94	593.07	44835.20	7684.90
4	4	SLE Q	RVN	59729.80	5381.94	593.07	44835.20	7684.90
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	59729.80	5381.94	593.07	44835.20	7684.90

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-80635.20	-7265.62	-800.64	-60527.60	-10374.60
2	2	SLE R	1	-59729.80	-5381.94	-593.07	-44835.20	-7684.90
3	3	SLE F	1	-59729.80	-5381.94	-593.07	-44835.20	-7684.90
4	4	SLE Q	1	-59729.80	-5381.94	-593.07	-44835.20	-7684.90

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-80635.20	60276.80	-10331.60	-80635.20	177270.00	-31113.90	2-3	190.00	2.943
2	59.52	1	SLU	-81282.80	63812.70	-10937.70	-81282.80	177521.00	-31160.50	2-3	190.00	2.784
3	119.05	1	SLU	-80897.60	65983.30	-11309.70	-80897.60	177372.00	-31132.80	2-3	190.00	2.690
4	178.57	1	SLU	-80515.00	66986.50	-11481.70	-80515.00	177224.00	-31105.20	2-3	190.00	2.647
5	238.09	1	SLU	-80134.80	67005.30	-11484.90	-80134.80	177077.00	-31077.90	2-3	190.00	2.645
6	297.62	1	SLU	-79757.20	66206.80	-11348.10	-79757.20	176931.00	-31050.70	2-3	190.00	2.674
7	357.14	1	SLU	-79382.10	64680.10	-11086.40	-79382.10	176786.00	-31023.60	2-3	190.00	2.735
8	416.67	1	SLU	-77547.20	62325.60	-10682.80	-77547.20	176076.00	-30891.50	2-3	190.00	2.827
9	476.19	1	SLU	-75716.40	59272.10	-10159.40	-75716.40	175367.00	-30759.70	2-3	190.00	2.961
10	535.71	1	SLU	-73889.70	55702.10	-9547.52	-73889.70	174659.00	-30627.90	2-3	190.00	3.138
11	595.24	1	SLU	-72067.00	51774.60	-8874.33	-72067.00	173950.00	-30495.50	2-3	190.00	3.362
12	654.76	1	SLU	-70248.10	47626.30	-8163.30	-70248.10	173242.00	-30363.40	2-3	190.00	3.640
13	714.29	1	SLU	-68433.00	43373.40	-7434.33	-68433.00	172536.00	-30231.60	2-3	190.00	3.980
14	773.81	1	SLU	-66621.50	39113.00	-6704.09	-66621.50	171830.00	-30100.10	2-3	190.00	4.396
15	833.33	1	SLU	-64813.60	34925.00	-5986.26	-64813.60	171126.00	-29968.80	2-3	190.00	4.903
16	892.86	1	SLU	-63009.30	30873.90	-5291.88	-63009.30	170421.00	-29837.00	2-3	190.00	5.523
17	952.38	1	SLU	-61208.20	27009.90	-4629.58	-61208.20	169716.00	-29705.10	2-3	190.00	6.287
18	1011.90	1	SLU	-59410.50	23371.30	-4005.91	-59410.50	169013.00	-29573.50	2-3	190.00	7.236
19	1071.43	1	SLU	-57616.00	19985.30	-3425.55	-57616.00	168310.00	-29442.10	2-3	190.00	8.427
20	1130.95	1	SLU	-55824.50	16870.20	-2891.61	-55824.50	167608.00	-29310.90	2-3	190.00	9.941
21	1190.48	1	SLU	-54036.00	14036.00	-2405.82	-54036.00	166907.00	-29179.90	2-3	190.00	11.898
22	1250.00	1	SLU	-52250.50	11486.10	-1968.75	-52250.50	166205.00	-29048.10	2-3	190.00	14.478
23	1309.52	1	SLU	-50467.70	9218.33	-1580.05	-50467.70	165504.00	-28916.50	2-3	190.00	17.964
24	1369.05	1	SLU	-48687.70	7225.94	-1238.55	-48687.70	164803.00	-28785.10	2-3	190.00	22.820
25	1428.57	1	SLU	-46910.20	5498.51	-942.46	-46910.20	164103.00	-28653.80	2-3	190.00	29.861
26	1488.10	1	SLU	-45135.30	4022.76	-689.51	-45135.30	163404.00	-28522.80	2-3	190.00	40.641
27	1547.62	1	SLU	-43362.80	2783.19	-477.05	-43362.80	162705.00	-28391.60	2-3	190.00	58.490
28	1607.14	1	SLU	-41592.60	1762.74	-302.14	-2571250.00	162005.00	-28259.90	2-3	190.00	61.820
29	1666.67	1	SLU	-39824.70	943.24	-161.67	-2571250.00	161306.00	-28128.30	2-3	190.00	64.564
30	1726.19	1	SLU	-38058.90	305.79	-52.41	-2571250.00	160584.00	-28048.80	2-3	190.00	67.560
31	1785.71	1	SLU	-36295.10	-168.84	28.94	-2571250.00	-159568.00	28255.10	2-3	10.00	70.843
32	1845.24	1	SLU	-34533.30	-500.02	85.71	-2571250.00	-158847.00	28121.40	2-3	10.00	74.457
33	1904.76	1	SLU	-32773.30	-707.04	121.19	-2571250.00	-158127.00	27987.80	2-3	10.00	78.456
34	1964.29	1	SLU	-31015.10	-808.99	138.66	-2571250.00	-157408.00	27854.40	2-3	10.00	82.903
35	2023.81	1	SLU	-29258.50	-824.67	141.35	-2571250.00	-156690.00	27721.20	2-3	10.00	87.880

36	2083.33	1	SLU	-27503.60	-772.56	132.42	-2571250.00	-155970.00	27587.50	2-3	10.00	93.488
37	2142.86	1	SLU	-25750.10	-670.79	114.98	-2571250.00	-155248.00	27453.10	2-3	10.00	99.854
38	2202.38	1	SLU	-23997.90	-537.21	92.08	-2571250.00	-154528.00	27318.90	2-3	10.00	>100
39	2261.90	1	SLU	-22247.10	-389.35	66.74	-2571250.00	-153807.00	27184.70	2-3	10.00	>100
40	2321.43	1	SLU	-20497.50	-244.57	41.92	-2571250.00	-153087.00	27050.60	2-3	10.00	>100
41	2380.95	1	SLU	-18748.90	-120.05	20.58	-2571250.00	-152366.00	26916.60	2-3	10.00	>100
42	2440.48	1	SLU	-17001.40	-32.85	5.63	-2571250.00	-151644.00	26781.40	2-3	10.00	>100
43	2500.00	1	SLU	-15254.80	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7265.62	800.64	0.85	11.31	7309.60	1.00	32294.70	343218.00	32294.70	4.418
2	59.52	1	SLU	4776.01	526.29	0.85	11.31	4804.92	1.00	32294.70	343311.00	32294.70	6.721
3	119.05	1	SLU	2634.82	290.35	0.85	11.31	2650.77	1.00	32294.70	343256.00	32294.70	12.183
4	178.57	1	SLU	816.40	89.96	0.85	11.31	821.34	1.00	32294.70	343201.00	32294.70	39.319
5	238.09	1	SLU	-705.53	-77.75	0.85	11.31	709.80	1.00	32294.70	343147.00	32294.70	45.498
6	297.62	1	SLU	-1957.45	-215.70	0.85	11.31	1969.30	1.00	32294.70	343092.00	32294.70	16.399
7	357.14	1	SLU	-3283.39	-361.81	0.85	11.31	3303.26	1.00	32294.70	343039.00	32294.70	9.777
8	416.67	1	SLU	-4636.22	-510.89	0.85	11.31	4664.28	1.00	32294.70	342776.00	32294.70	6.924
9	476.19	1	SLU	-5659.05	-623.60	0.85	11.31	5693.30	1.00	32294.70	342514.00	32294.70	5.672
10	535.71	1	SLU	-6392.97	-704.48	0.85	11.31	6431.67	1.00	32294.70	342252.00	32294.70	5.021
11	595.24	1	SLU	-6876.83	-757.80	0.85	11.31	6918.46	1.00	32294.70	341991.00	32294.70	4.668
12	654.76	1	SLU	-7146.90	-787.56	0.85	11.31	7190.17	1.00	32294.70	341730.00	32294.70	4.492
13	714.29	1	SLU	-7236.75	-797.46	0.85	11.31	7280.55	1.00	32294.70	341470.00	32294.70	4.436
14	773.81	1	SLU	-7177.06	-790.88	0.85	11.31	7220.50	1.00	32294.70	341211.00	32294.70	4.473
15	833.33	1	SLU	-6995.66	-770.89	0.85	11.31	7038.01	1.00	32294.70	340952.00	32294.70	4.589
16	892.86	1	SLU	-6717.51	-740.24	0.85	11.31	6758.18	1.00	32294.70	340693.00	32294.70	4.779
17	952.38	1	SLU	-6364.79	-701.37	0.85	11.31	6403.32	1.00	32294.70	340436.00	32294.70	5.043
18	1011.90	1	SLU	-5957.00	-656.43	0.85	11.31	5993.06	1.00	32294.70	340178.00	32294.70	5.389
19	1071.43	1	SLU	-5511.09	-607.30	0.85	11.31	5544.45	1.00	32294.70	339921.00	32294.70	5.825
20	1130.95	1	SLU	-5041.67	-555.57	0.85	11.31	5072.19	1.00	32294.70	339664.00	32294.70	6.367
21	1190.48	1	SLU	-4561.13	-502.62	0.85	11.31	4588.74	1.00	32294.70	339408.00	32294.70	7.038
22	1250.00	1	SLU	-4079.85	-449.58	0.85	11.31	4104.55	1.00	32294.70	339152.00	32294.70	7.868
23	1309.52	1	SLU	-3606.41	-397.41	0.85	11.31	3628.24	1.00	32294.70	338897.00	32294.70	8.901
24	1369.05	1	SLU	-3147.76	-346.87	0.85	11.31	3166.81	1.00	32294.70	338642.00	32294.70	10.198
25	1428.57	1	SLU	-2709.40	-298.56	0.85	11.31	2725.80	1.00	32294.70	338387.00	32294.70	11.848
26	1488.10	1	SLU	-2295.59	-252.96	0.85	11.31	2309.48	1.00	32294.70	338133.00	32294.70	13.983
27	1547.62	1	SLU	-1909.51	-210.42	0.85	11.31	1921.07	1.00	32294.70	337879.00	32294.70	16.811
28	1607.14	1	SLU	-1553.42	-171.18	0.85	11.31	1562.82	1.00	32294.70	337626.00	32294.70	20.664
29	1666.67	1	SLU	-1228.82	-135.41	0.85	11.31	1236.26	1.00	32294.70	337373.00	32294.70	26.123
30	1726.19	1	SLU	-936.60	-103.21	0.85	11.31	942.27	1.00	32294.70	337120.00	32294.70	34.273
31	1785.71	1	SLU	-677.15	-74.62	0.85	11.31	681.25	1.00	32294.70	336867.00	32294.70	47.405
32	1845.24	1	SLU	-450.50	-49.64	0.85	11.31	453.22	1.00	32294.70	336615.00	32294.70	71.256
33	1904.76	1	SLU	-256.38	-28.25	0.85	11.31	257.94	1.00	32294.70	336363.00	32294.70	>100
34	1964.29	1	SLU	-94.38	-10.40	0.85	11.31	94.95	1.00	32294.70	336111.00	32294.70	>100
35	2023.81	1	SLU	36.03	3.97	0.85	11.31	36.25	1.00	32294.70	335859.00	32294.70	>100
36	2083.33	1	SLU	135.43	14.92	0.85	11.31	136.25	1.00	32294.70	335608.00	32294.70	>100
37	2142.86	1	SLU	204.37	22.52	0.85	11.31	205.60	1.00	32294.70	335356.00	32294.70	>100
38	2202.38	1	SLU	243.34	26.81	0.85	11.31	244.81	1.00	32294.70	335106.00	32294.70	>100
39	2261.90	1	SLU	252.77	27.85	0.85	11.31	254.30	1.00	32294.70	334855.00	32294.70	>100
40	2321.43	1	SLU	232.97	25.67	0.85	11.31	234.38	1.00	32294.70	334604.00	32294.70	>100
41	2380.95	1	SLU	184.17	20.29	0.85	11.31	185.29	1.00	32294.70	334354.00	32294.70	>100
42	2440.48	1	SLU	106.50	11.74	0.85	11.31	107.14	1.00	32294.70	334103.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_C <daN/cmq>	σ_F <daN/cmq>
44	0.00	2	SLE R	-59729.80	-7653.06	44649.50	43.98	34.56	42.91	916.46
45	59.52	2	SLE R	-60522.70	-8102.00	47268.70	43.98	34.56	45.61	1002.42
46	119.05	2	SLE R	-60427.50	-8377.59	48876.50	43.98	34.56	47.31	1062.45
47	178.57	2	SLE R	-60334.20	-8504.97	49619.70	43.98	34.56	48.09	1090.89
48	238.09	2	SLE R	-60242.70	-8507.36	49633.60	43.98	34.56	48.11	1092.52
49	297.62	2	SLE R	-60153.20	-8405.97	49042.10	43.98	34.56	47.50	1071.86
50	357.14	2	SLE R	-60065.50	-8212.13	47911.20	43.98	34.56	46.32	1031.42
51	416.67	2	SLE R	-58721.50	-7913.19	46167.10	43.98	34.56	44.58	983.74
52	476.19	2	SLE R	-57380.70	-7525.50	43905.20	43.98	34.56	42.29	917.21
53	535.71	2	SLE R	-56042.90	-7072.24	41260.80	43.98	34.56	39.60	836.97
54	595.24	2	SLE R	-54708.10	-6573.58	38351.50	43.98	34.56	36.62	747.61
55	654.76	2	SLE R	-53376.30	-6046.89	35278.70	43.98	34.56	33.47	653.16
56	714.29	2	SLE R	-52047.30	-5506.91	32128.40	43.98	34.56	30.23	557.16
57	773.81	2	SLE R	-50721.10	-4965.99	28972.60	43.98	34.56	26.98	462.73
58	833.33	2	SLE R	-49397.60	-4434.27	25870.40	40.84	37.70	23.79	372.62
59	892.86	2	SLE R	-48076.80	-3919.91	22869.50	37.70	40.84	20.72	289.30
60	952.38	2	SLE R	-46758.50	-3429.32	20007.30	37.70	40.84	17.83	246.22
61	1011.90	2	SLE R	-45442.80	-2967.34	17312.00	37.70	40.84	15.18	211.01
62	1071.43	2	SLE R	-44129.50	-2537.45	14804.00	31.42	47.12	12.82	179.51

63	1130.95	2	SLE R	-42818.60	-2141.93	12496.50	28.27	50.27	10.81	152.31
64	1190.48	2	SLE R	-41509.90	-1782.09	10397.00	25.13	53.41	9.14	129.62
65	1250.00	2	SLE R	-40203.50	-1458.34	8508.22	18.85	59.69	7.79	111.16
66	1309.52	2	SLE R	-38899.30	-1170.41	6828.39	6.28	72.26	6.72	96.30
67	1369.05	2	SLE R	-37597.10	-917.44	5352.55	0.00	78.54	5.84	84.06
68	1428.57	2	SLE R	-36297.00	-698.12	4072.97	0.00	78.54	5.07	73.34
69	1488.10	2	SLE R	-34998.80	-510.75	2979.82	0.00	78.54	4.39	63.95
70	1547.62	2	SLE R	-33702.40	-353.37	2061.62	0.00	78.54	3.81	55.81
71	1607.14	2	SLE R	-32407.90	-223.81	1305.74	0.00	78.54	3.31	48.84
72	1666.67	2	SLE R	-31115.10	-119.76	698.69	0.00	78.54	2.89	42.93
73	1726.19	2	SLE R	-29824.00	-38.82	226.51	0.00	78.54	2.54	37.98
74	1785.71	2	SLE R	-28534.50	21.44	-125.07	0.00	78.54	2.38	35.68
75	1845.24	2	SLE R	-27246.50	63.49	-370.39	0.00	78.54	2.41	35.85
76	1904.76	2	SLE R	-25960.00	89.77	-523.73	0.00	78.54	2.38	35.37
77	1964.29	2	SLE R	-24674.90	102.71	-599.25	0.00	78.54	2.32	34.34
78	2023.81	2	SLE R	-23391.10	104.70	-610.87	0.00	78.54	2.22	32.86
79	2083.33	2	SLE R	-22108.50	98.09	-572.27	0.00	78.54	2.09	31.02
80	2142.86	2	SLE R	-20827.20	85.17	-496.88	0.00	78.54	1.95	28.92
81	2202.38	2	SLE R	-19546.90	68.21	-397.93	0.00	78.54	1.80	26.66
82	2261.90	2	SLE R	-18267.70	49.43	-288.41	0.00	78.54	1.63	24.32
83	2321.43	2	SLE R	-16989.50	31.05	-181.16	0.00	78.54	1.48	22.00
84	2380.95	2	SLE R	-15712.20	15.24	-88.92	0.00	78.54	1.32	19.79
85	2440.48	2	SLE R	-14435.70	4.17	-24.33	0.00	78.54	1.19	17.77
86	2500.00	2	SLE R	-13160.10	0.00	0.00	0.00	78.54	1.07	16.05
87	0.00	4	SLE Q	-59729.80	-7653.06	44649.50	43.98	34.56	42.91	916.46
88	59.52	4	SLE Q	-60522.70	-8102.00	47268.70	43.98	34.56	45.61	1002.42
89	119.05	4	SLE Q	-60427.50	-8377.59	48876.50	43.98	34.56	47.31	1062.45
90	178.57	4	SLE Q	-60334.20	-8504.97	49619.70	43.98	34.56	48.09	1090.89
91	238.09	4	SLE Q	-60242.70	-8507.36	49633.60	43.98	34.56	48.11	1092.52
92	297.62	4	SLE Q	-60153.20	-8405.97	49042.10	43.98	34.56	47.50	1071.86
93	357.14	4	SLE Q	-60065.50	-8212.13	47911.20	43.98	34.56	46.32	1031.42
94	416.67	4	SLE Q	-58721.50	-7913.19	46167.10	43.98	34.56	44.58	983.74
95	476.19	4	SLE Q	-57380.70	-7525.50	43905.20	43.98	34.56	42.29	917.21
96	535.71	4	SLE Q	-56042.90	-7072.24	41260.80	43.98	34.56	39.60	836.97
97	595.24	4	SLE Q	-54708.10	-6573.58	38351.50	43.98	34.56	36.62	747.61
98	654.76	4	SLE Q	-53376.30	-6046.89	35278.70	43.98	34.56	33.47	653.16
99	714.29	4	SLE Q	-52047.30	-5506.91	32128.40	43.98	34.56	30.23	557.16
100	773.81	4	SLE Q	-50721.10	-4965.99	28972.60	43.98	34.56	26.98	462.73
101	833.33	4	SLE Q	-49397.60	-4434.27	25870.40	40.84	37.70	23.79	372.62
102	892.86	4	SLE Q	-48076.80	-3919.91	22869.50	37.70	40.84	20.72	289.30
103	952.38	4	SLE Q	-46758.50	-3429.32	20007.30	37.70	40.84	17.83	246.22
104	1011.90	4	SLE Q	-45442.80	-2967.34	17312.00	37.70	40.84	15.18	211.01
105	1071.43	4	SLE Q	-44129.50	-2537.45	14804.00	31.42	47.12	12.82	179.51
106	1130.95	4	SLE Q	-42818.60	-2141.93	12496.50	28.27	50.27	10.81	152.31
107	1190.48	4	SLE Q	-41509.90	-1782.09	10397.00	25.13	53.41	9.14	129.62
108	1250.00	4	SLE Q	-40203.50	-1458.34	8508.22	18.85	59.69	7.79	111.16
109	1309.52	4	SLE Q	-38899.30	-1170.41	6828.39	6.28	72.26	6.72	96.30
110	1369.05	4	SLE Q	-37597.10	-917.44	5352.55	0.00	78.54	5.84	84.06
111	1428.57	4	SLE Q	-36297.00	-698.12	4072.97	0.00	78.54	5.07	73.34
112	1488.10	4	SLE Q	-34998.80	-510.75	2979.82	0.00	78.54	4.39	63.95
113	1547.62	4	SLE Q	-33702.40	-353.37	2061.62	0.00	78.54	3.81	55.81
114	1607.14	4	SLE Q	-32407.90	-223.81	1305.74	0.00	78.54	3.31	48.84
115	1666.67	4	SLE Q	-31115.10	-119.76	698.69	0.00	78.54	2.89	42.93
116	1726.19	4	SLE Q	-29824.00	-38.82	226.51	0.00	78.54	2.54	37.98
117	1785.71	4	SLE Q	-28534.50	21.44	-125.07	0.00	78.54	2.38	35.68
118	1845.24	4	SLE Q	-27246.50	63.49	-370.39	0.00	78.54	2.41	35.85
119	1904.76	4	SLE Q	-25960.00	89.77	-523.73	0.00	78.54	2.38	35.37
120	1964.29	4	SLE Q	-24674.90	102.71	-599.25	0.00	78.54	2.32	34.34
121	2023.81	4	SLE Q	-23391.10	104.70	-610.87	0.00	78.54	2.22	32.86
122	2083.33	4	SLE Q	-22108.50	98.09	-572.27	0.00	78.54	2.09	31.02
123	2142.86	4	SLE Q	-20827.20	85.17	-496.88	0.00	78.54	1.95	28.92
124	2202.38	4	SLE Q	-19546.90	68.21	-397.93	0.00	78.54	1.80	26.66
125	2261.90	4	SLE Q	-18267.70	49.43	-288.41	0.00	78.54	1.63	24.32
126	2321.43	4	SLE Q	-16989.50	31.05	-181.16	0.00	78.54	1.48	22.00
127	2380.95	4	SLE Q	-15712.20	15.24	-88.92	0.00	78.54	1.32	19.79
128	2440.48	4	SLE Q	-14435.70	4.17	-24.33	0.00	78.54	1.19	17.77
129	2500.00	4	SLE Q	-13160.10	0.00	0.00	0.00	78.54	1.07	16.05

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-59729.80	44649.50	-7653.06	46.00	136.36	0.50	20.00	202.24	21.99	1212.19	916.46	0.27	0.09
88	59.52	4	SLE Q	-60522.70	47268.70	-8102.00	46.00	136.36	0.50	20.00	203.14	21.99	1222.06	1002.42	0.29	0.10
89	119.05	4	SLE Q	-60427.50	48876.50	-8377.59	46.00	136.36	0.50	20.00	203.81	21.99	1229.45	1062.45	0.31	0.11
90	178.57	4	SLE Q	-60334.20	49619.70	-8504.97	46.00	136.36	0.50	20.00	204.12	21.99	1232.81	1090.89	0.32	0.11
91	238.09	4	SLE Q	-60242.70	49633.60	-8507.36	46.00	136.36	0.50	20.00	204.15	21.99	1233.17	1092.52	0.32	0.11
92	297.62	4	SLE Q	-60153.20	49042.10	-8405.97	46.00	136.36	0.50	20.00	203.96	21.99	1231.07	1071.86	0.31	0.11

93	357.14	4	SLE Q	-60065.50	47911.20	-8212.13	46.00	136.36	0.50	20.00	203.55	21.99	1226.56	1031.42	0.30	0.10
94	416.67	4	SLE Q	-58721.50	46167.10	-7913.19	46.00	136.36	0.50	20.00	203.27	21.99	1223.49	983.74	0.29	0.10
95	476.19	4	SLE Q	-57380.70	43905.20	-7525.50	46.00	136.36	0.50	20.00	202.73	21.99	1217.53	917.21	0.27	0.09
96	535.71	4	SLE Q	-56042.90	41260.80	-7072.24	46.00	136.36	0.50	20.00	220.24	18.85	1208.59	836.97	0.24	0.09
97	595.24	4	SLE Q	-54708.10	38351.50	-6573.58	46.00	136.36	0.50	20.00	218.94	18.85	1196.35	747.61	0.22	0.08
98	654.76	4	SLE Q	-53376.30	35278.70	-6046.89	46.00	136.36	0.50	20.00	217.22	18.85	1180.20	653.16	0.19	0.07
99	714.29	4	SLE Q	-52047.30	32128.40	-5506.91	46.00	136.36	0.50	20.00	215.00	18.85	1159.25	557.16	0.16	0.06
100	773.81	4	SLE Q	-50721.10	28972.60	-4965.99	46.00	136.36	0.50	20.00	212.12	18.85	1132.15	462.73	0.13	0.05
101	833.33	4	SLE Q	-49397.60	25870.40	-4434.27	46.00	136.36	0.50	20.00	208.39	18.85	1096.96	372.62	0.11	0.04
102	892.86	4	SLE Q	-48076.80	22869.50	-3919.91	46.00	136.36	0.50	20.00	203.50	18.85	1050.91	289.30	0.08	0.03
103	952.38	4	SLE Q	-46758.50	20007.30	-3429.32	46.00	136.36	0.50	20.00	197.07	18.85	990.23	214.99	0.06	0.02
104	1011.90	4	SLE Q	-45442.80	17312.00	-2967.34	46.00	136.36	0.50	20.00	188.17	18.85	906.36	151.57	0.04	0.01
105	1071.43	4	SLE Q	-44129.50	14804.00	-2537.45	46.00	136.36	0.50	20.00	217.13	12.57	786.19	100.32	0.03	0.01
106	1130.95	4	SLE Q	-42818.60	12496.50	-2141.93	46.00	136.36	0.50	20.00	188.28	12.57	604.95	61.31	0.02	0.01
107	1190.48	4	SLE Q	-41509.90	10397.00	-1782.09	46.00	136.36	0.50	20.00	177.68	9.42	403.74	33.34	0.01	0.00
108	1250.00	4	SLE Q	-40203.50	8508.22	-1458.34	46.00	136.36	0.50	20.00	158.53	6.28	209.00	14.17	0.00	0.00
130	0.00	3	SLE F	-59729.80	44649.50	-7653.06	46.00	136.36	0.50	20.00	202.24	21.99	1212.19	916.46	0.27	0.09
131	59.52	3	SLE F	-60522.70	47268.70	-8102.00	46.00	136.36	0.50	20.00	203.14	21.99	1222.06	1002.42	0.29	0.10
132	119.05	3	SLE F	-60427.50	48876.50	-8377.59	46.00	136.36	0.50	20.00	203.81	21.99	1229.45	1062.45	0.31	0.11
133	178.57	3	SLE F	-60334.20	49619.70	-8504.97	46.00	136.36	0.50	20.00	204.12	21.99	1232.81	1090.89	0.32	0.11
134	238.09	3	SLE F	-60242.70	49633.60	-8507.36	46.00	136.36	0.50	20.00	204.15	21.99	1233.17	1092.52	0.32	0.11
135	297.62	3	SLE F	-60153.20	49042.10	-8405.97	46.00	136.36	0.50	20.00	203.96	21.99	1231.07	1071.86	0.31	0.11
136	357.14	3	SLE F	-60065.50	47911.20	-8212.13	46.00	136.36	0.50	20.00	203.55	21.99	1226.56	1031.42	0.30	0.10
137	416.67	3	SLE F	-58721.50	46167.10	-7913.19	46.00	136.36	0.50	20.00	203.27	21.99	1223.49	983.74	0.29	0.10
138	476.19	3	SLE F	-57380.70	43905.20	-7525.50	46.00	136.36	0.50	20.00	202.73	21.99	1217.53	917.21	0.27	0.09
139	535.71	3	SLE F	-56042.90	41260.80	-7072.24	46.00	136.36	0.50	20.00	220.24	18.85	1208.59	836.97	0.24	0.09
140	595.24	3	SLE F	-54708.10	38351.50	-6573.58	46.00	136.36	0.50	20.00	218.94	18.85	1196.35	747.61	0.22	0.08
141	654.76	3	SLE F	-53376.30	35278.70	-6046.89	46.00	136.36	0.50	20.00	217.22	18.85	1180.20	653.16	0.19	0.07
142	714.29	3	SLE F	-52047.30	32128.40	-5506.91	46.00	136.36	0.50	20.00	215.00	18.85	1159.25	557.16	0.16	0.06
143	773.81	3	SLE F	-50721.10	28972.60	-4965.99	46.00	136.36	0.50	20.00	212.12	18.85	1132.15	462.73	0.13	0.05
144	833.33	3	SLE F	-49397.60	25870.40	-4434.27	46.00	136.36	0.50	20.00	208.39	18.85	1096.96	372.62	0.11	0.04
145	892.86	3	SLE F	-48076.80	22869.50	-3919.91	46.00	136.36	0.50	20.00	203.50	18.85	1050.91	289.30	0.08	0.03
146	952.38	3	SLE F	-46758.50	20007.30	-3429.32	46.00	136.36	0.50	20.00	197.07	18.85	990.23	214.99	0.06	0.02
147	1011.90	3	SLE F	-45442.80	17312.00	-2967.34	46.00	136.36	0.50	20.00	188.17	18.85	906.36	151.57	0.04	0.01
148	1071.43	3	SLE F	-44129.50	14804.00	-2537.45	46.00	136.36	0.50	20.00	217.13	12.57	786.19	100.32	0.03	0.01
149	1130.95	3	SLE F	-42818.60	12496.50	-2141.93	46.00	136.36	0.50	20.00	188.28	12.57	604.95	61.31	0.02	0.01
150	1190.48	3	SLE F	-41509.90	10397.00	-1782.09	46.00	136.36	0.50	20.00	177.68	9.42	403.74	33.34	0.01	0.00
151	1250.00	3	SLE F	-40203.50	8508.22	-1458.34	46.00	136.36	0.50	20.00	158.53	6.28	209.00	14.17	0.00	0.00

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
48	C.Rare - Sc min (max compr.),C.Rare - Sf max (max traz.),C.Rare - Sf min (max compr.)
67	C.Rare - Sc max (min. compr.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf max (max traz.),C.Q.Per. - Sf min (max compr.),C.Q.Per. - Wk Max
110	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 32

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 32 (-16)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	46634.90	7464.38	623.03	59187.90	4732.68
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	46634.90	7464.38	623.03	59187.90	4732.68
2	2	SLE R	RVN	34544.40	5529.17	461.50	43842.90	3505.69
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	34544.40	5529.17	461.50	43842.90	3505.69
3	3	SLE F	RVN	34544.40	5529.17	461.50	43842.90	3505.69

	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	34544.40	5529.17	461.50	43842.90	3505.69
4	4	SLE Q	RVN	34544.40	5529.17	461.50	43842.90	3505.69
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	34544.40	5529.17	461.50	43842.90	3505.69

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-46634.90	-7464.38	-623.03	-59187.90	-4732.68
2	2	SLE R	1	-34544.40	-5529.17	-461.50	-43842.90	-3505.69
3	3	SLE F	1	-34544.40	-5529.17	-461.50	-43842.90	-3505.69
4	4	SLE Q	1	-34544.40	-5529.17	-461.50	-43842.90	-3505.69

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-46634.90	58936.20	-4712.55	-46634.90	165723.00	-14208.90	2-3	185.00	2.813
2	59.52	1	SLU	-47518.90	62625.50	-5007.55	-47518.90	166086.00	-14235.80	2-3	185.00	2.653
3	119.05	1	SLU	-47605.30	64943.70	-5192.91	-47605.30	166122.00	-14238.40	2-3	185.00	2.559
4	178.57	1	SLU	-47693.20	66088.30	-5284.43	-47693.20	166158.00	-14241.10	2-3	185.00	2.515
5	238.09	1	SLU	-47782.60	66241.40	-5296.67	-47782.60	166194.00	-14243.80	2-3	185.00	2.510
6	297.62	1	SLU	-47873.50	65570.00	-5242.99	-47873.50	166232.00	-14246.60	2-3	185.00	2.536
7	357.14	1	SLU	-47965.90	64162.20	-5130.42	-47965.90	166270.00	-14249.40	2-3	185.00	2.593
8	416.67	1	SLU	-46929.40	61915.20	-4950.75	-46929.40	165844.00	-14217.80	2-3	185.00	2.680
9	476.19	1	SLU	-45895.40	58957.10	-4714.22	-45895.40	165419.00	-14186.30	2-3	185.00	2.807
10	535.71	1	SLU	-44863.90	55470.90	-4435.46	-44863.90	164995.00	-14154.90	2-3	185.00	2.976
11	595.24	1	SLU	-43834.80	51616.10	-4127.23	-43834.80	164572.00	-14123.50	2-3	185.00	3.190
12	654.76	1	SLU	-42808.00	47530.20	-3800.52	-42808.00	164150.00	-14092.10	2-3	185.00	3.455
13	714.29	1	SLU	-41783.50	43330.00	-3464.67	-41783.50	163727.00	-14061.50	2-3	185.00	3.780
14	773.81	1	SLU	-40761.30	39113.50	-3127.52	-40761.30	163304.00	-14030.90	2-3	185.00	4.177
15	833.33	1	SLU	-39741.20	34961.40	-2795.52	-39741.20	162883.00	-14000.30	2-3	185.00	4.661
16	892.86	1	SLU	-38723.30	30938.90	-2473.88	-38723.30	162462.00	-13969.80	2-3	185.00	5.254
17	952.38	1	SLU	-37707.50	27097.10	-2166.69	-37707.50	162041.00	-13939.20	2-3	185.00	5.983
18	1011.90	1	SLU	-36693.60	23474.90	-1877.06	-36693.60	161622.00	-13908.70	2-3	185.00	6.888
19	1071.43	1	SLU	-35681.80	20100.50	-1607.24	-35681.80	161203.00	-13878.30	2-3	185.00	8.024
20	1130.95	1	SLU	-34671.80	16992.50	-1358.72	-34671.80	160785.00	-13847.80	2-3	185.00	9.467
21	1190.48	1	SLU	-33663.80	14161.80	-1132.38	-33663.80	160368.00	-13817.40	2-3	185.00	11.330
22	1250.00	1	SLU	-32657.50	11612.30	-928.52	-32657.50	159949.00	-13787.80	2-3	185.00	13.781
23	1309.52	1	SLU	-31653.00	9342.34	-747.01	-31653.00	159531.00	-13758.20	2-3	185.00	17.085
24	1369.05	1	SLU	-30650.10	7345.72	-587.37	-30650.10	159113.00	-13730.80	2-3	185.00	21.672
25	1428.57	1	SLU	-29649.00	5612.42	-448.77	-29649.00	158693.00	-13707.00	2-3	185.00	28.290
26	1488.10	1	SLU	-28649.40	4129.55	-330.20	-28649.40	158274.00	-13683.30	2-3	185.00	38.348
27	1547.62	1	SLU	-27651.30	2881.96	-230.44	-27651.30	157855.00	-13659.40	2-3	185.00	54.803
28	1607.14	1	SLU	-26654.70	1852.87	-148.16	-26654.70	157438.00	-13635.60	2-3	185.00	85.016
29	1666.67	1	SLU	-25659.60	1024.38	-81.91	-2571250.00	157020.00	-13611.70	2-3	185.00	>100
30	1726.19	1	SLU	-24665.80	377.83	-30.21	-2571250.00	156603.00	-13587.90	2-3	185.00	>100
31	1785.71	1	SLU	-23673.40	-105.84	8.46	-2571250.00	-156368.00	13524.80	2-3	5.00	>100
32	1845.24	1	SLU	-22682.20	-445.84	35.65	-2571250.00	-155958.00	13454.90	2-3	5.00	>100
33	1904.76	1	SLU	-21692.30	-661.31	52.88	-2571250.00	-155549.00	13385.30	2-3	5.00	>100
34	1964.29	1	SLU	-20703.50	-771.23	61.67	-2571250.00	-155139.00	13313.60	2-3	5.00	>100
35	2023.81	1	SLU	-19715.80	-794.30	63.51	-2571250.00	-154730.00	13241.80	2-3	5.00	>100
36	2083.33	1	SLU	-18729.20	-748.91	59.88	-2571250.00	-154322.00	13170.20	2-3	5.00	>100
37	2142.86	1	SLU	-17743.50	-653.15	52.23	-2571250.00	-153914.00	13098.90	2-3	5.00	>100
38	2202.38	1	SLU	-16758.90	-524.77	41.96	-2571250.00	-153502.00	13027.20	2-3	5.00	>100
39	2261.90	1	SLU	-15775.10	-381.27	30.49	-2571250.00	-153094.00	12956.10	2-3	5.00	>100
40	2321.43	1	SLU	-14792.20	-239.97	19.19	-2571250.00	-152686.00	12885.20	2-3	5.00	>100
41	2380.95	1	SLU	-13810.10	-117.97	9.43	-2571250.00	-152263.00	12852.40	2-3	5.00	>100
42	2440.48	1	SLU	-12828.70	-32.32	2.58	-2571250.00	-151840.00	12821.60	2-3	5.00	>100
43	2500.00	1	SLU	-11848.00	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7464.38	623.03	0.85	11.31	7490.34	1.00	32294.70	338348.00	32294.70	4.312
2	59.52	1	SLU	4987.57	416.30	0.85	11.31	5004.91	1.00	32294.70	338475.00	32294.70	6.453
3	119.05	1	SLU	2854.72	238.27	0.85	11.31	2864.64	1.00	32294.70	338487.00	32294.70	11.274
4	178.57	1	SLU	1040.82	86.87	0.85	11.31	1044.44	1.00	32294.70	338500.00	32294.70	30.921
5	238.09	1	SLU	-479.79	-40.05	0.85	11.31	481.46	1.00	32294.70	338512.00	32294.70	67.076
6	297.62	1	SLU	-1733.03	-144.65	0.85	11.31	1739.06	1.00	32294.70	338525.00	32294.70	18.570
7	357.14	1	SLU	-3064.02	-255.74	0.85	11.31	3074.67	1.00	32294.70	338539.00	32294.70	10.504
8	416.67	1	SLU	-4425.68	-369.40	0.85	11.31	4441.07	1.00	32294.70	338390.00	32294.70	7.272

9	476.19	1	SLU	-5459.57	-455.69	0.85	11.31	5478.56	1.00	32294.70	338242.00	32294.70	5.895
10	535.71	1	SLU	-6206.18	-518.01	0.85	11.31	6227.76	1.00	32294.70	338094.00	32294.70	5.186
11	595.24	1	SLU	-6703.82	-559.55	0.85	11.31	6727.13	1.00	32294.70	337947.00	32294.70	4.801
12	654.76	1	SLU	-6988.34	-583.29	0.85	11.31	7012.64	1.00	32294.70	337800.00	32294.70	4.605
13	714.29	1	SLU	-7092.90	-592.02	0.85	11.31	7117.57	1.00	32294.70	337653.00	32294.70	4.537
14	773.81	1	SLU	-7047.91	-588.27	0.85	11.31	7072.42	1.00	32294.70	337507.00	32294.70	4.566
15	833.33	1	SLU	-6880.93	-574.33	0.85	11.31	6904.85	1.00	32294.70	337361.00	32294.70	4.677
16	892.86	1	SLU	-6616.70	-552.27	0.85	11.31	6639.71	1.00	32294.70	337215.00	32294.70	4.864
17	952.38	1	SLU	-6277.26	-523.94	0.85	11.31	6299.09	1.00	32294.70	337069.00	32294.70	5.127
18	1011.90	1	SLU	-5881.98	-490.95	0.85	11.31	5902.43	1.00	32294.70	336924.00	32294.70	5.471
19	1071.43	1	SLU	-5447.75	-454.71	0.85	11.31	5466.69	1.00	32294.70	336779.00	32294.70	5.908
20	1130.95	1	SLU	-4989.09	-416.42	0.85	11.31	5006.44	1.00	32294.70	336634.00	32294.70	6.451
21	1190.48	1	SLU	-4518.39	-377.14	0.85	11.31	4534.10	1.00	32294.70	336490.00	32294.70	7.123
22	1250.00	1	SLU	-4046.02	-337.71	0.85	11.31	4060.09	1.00	32294.70	336346.00	32294.70	7.954
23	1309.52	1	SLU	-3580.57	-298.86	0.85	11.31	3593.02	1.00	32294.70	336202.00	32294.70	8.988
24	1369.05	1	SLU	-3129.00	-261.17	0.85	11.31	3139.88	1.00	32294.70	336058.00	32294.70	10.285
25	1428.57	1	SLU	-2696.86	-225.10	0.85	11.31	2706.24	1.00	32294.70	335915.00	32294.70	11.933
26	1488.10	1	SLU	-2288.45	-191.01	0.85	11.31	2296.40	1.00	32294.70	335772.00	32294.70	14.063
27	1547.62	1	SLU	-1906.98	-159.17	0.85	11.31	1913.61	1.00	32294.70	335629.00	32294.70	16.876
28	1607.14	1	SLU	-1554.78	-129.77	0.85	11.31	1560.19	1.00	32294.70	335486.00	32294.70	20.699
29	1666.67	1	SLU	-1233.39	-102.95	0.85	11.31	1237.68	1.00	32294.70	335344.00	32294.70	26.093
30	1726.19	1	SLU	-943.76	-78.77	0.85	11.31	947.04	1.00	32294.70	335201.00	32294.70	34.101
31	1785.71	1	SLU	-686.31	-57.28	0.85	11.31	688.69	1.00	32294.70	335059.00	32294.70	46.893
32	1845.24	1	SLU	-461.12	-38.49	0.85	11.31	462.72	1.00	32294.70	334917.00	32294.70	69.793
33	1904.76	1	SLU	-267.97	-22.37	0.85	11.31	268.90	1.00	32294.70	334775.00	32294.70	>100
34	1964.29	1	SLU	-106.48	-8.89	0.85	11.31	106.86	1.00	32294.70	334634.00	32294.70	>100
35	2023.81	1	SLU	23.84	1.99	0.85	11.31	23.92	1.00	32294.70	334492.00	32294.70	>100
36	2083.33	1	SLU	123.55	10.31	0.85	11.31	123.98	1.00	32294.70	334351.00	32294.70	>100
37	2142.86	1	SLU	193.16	16.12	0.85	11.31	193.84	1.00	32294.70	334210.00	32294.70	>100
38	2202.38	1	SLU	233.17	19.46	0.85	11.31	233.99	1.00	32294.70	334069.00	32294.70	>100
39	2261.90	1	SLU	243.98	20.36	0.85	11.31	244.83	1.00	32294.70	333928.00	32294.70	>100
40	2321.43	1	SLU	225.89	18.85	0.85	11.31	226.68	1.00	32294.70	333787.00	32294.70	>100
41	2380.95	1	SLU	179.13	14.95	0.85	11.31	179.75	1.00	32294.70	333646.00	32294.70	>100
42	2440.48	1	SLU	103.81	8.67	0.85	11.31	104.18	1.00	32294.70	333506.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-34544.40	-3490.78	43656.40	47.12	31.42	43.31	1182.42
45	59.52	2	SLE R	-35512.40	-3709.29	46389.30	47.12	31.42	46.08	1272.34
46	119.05	2	SLE R	-35766.50	-3846.60	48106.50	47.12	31.42	47.83	1333.61
47	178.57	2	SLE R	-36021.80	-3914.39	48954.30	47.12	31.42	48.70	1362.14
48	238.09	2	SLE R	-36278.10	-3923.46	49067.70	47.12	31.42	48.80	1362.98
49	297.62	2	SLE R	-36535.70	-3883.69	48570.30	47.12	31.42	48.28	1340.79
50	357.14	2	SLE R	-36794.30	-3800.31	47527.60	47.12	31.42	47.19	1298.09
51	416.67	2	SLE R	-36041.70	-3667.22	45863.10	47.12	31.42	45.51	1245.50
52	476.19	2	SLE R	-35291.10	-3492.01	43671.90	47.12	31.42	43.29	1173.10
53	535.71	2	SLE R	-34542.30	-3285.53	41089.50	47.12	31.42	40.66	1086.06
54	595.24	2	SLE R	-33795.40	-3057.21	38234.10	47.12	31.42	37.75	988.89
55	654.76	2	SLE R	-33050.30	-2815.20	35207.50	47.12	31.42	34.65	885.50
56	714.29	2	SLE R	-32306.90	-2566.43	32096.30	47.12	31.42	31.46	779.27
57	773.81	2	SLE R	-31565.30	-2316.68	28973.00	47.12	31.42	28.25	673.05
58	833.33	2	SLE R	-30825.40	-2070.76	25897.40	47.12	31.42	25.08	569.25
59	892.86	2	SLE R	-30087.20	-1832.50	22917.70	47.12	31.42	22.00	469.93
60	952.38	2	SLE R	-29350.60	-1604.95	20071.90	43.98	34.56	19.04	376.82
61	1011.90	2	SLE R	-28615.50	-1390.41	17388.80	40.84	37.70	16.25	291.47
62	1071.43	2	SLE R	-27882.00	-1190.55	14889.20	40.84	37.70	13.66	215.35
63	1130.95	2	SLE R	-27149.90	-1006.46	12587.00	40.84	37.70	11.29	153.32
64	1190.48	2	SLE R	-26419.40	-838.80	10490.20	34.56	43.98	9.19	126.06
65	1250.00	2	SLE R	-25690.20	-687.79	8601.68	34.56	43.98	7.40	102.67
66	1309.52	2	SLE R	-24962.40	-553.34	6920.25	28.27	50.27	5.97	83.66
67	1369.05	2	SLE R	-24236.00	-435.08	5441.27	21.99	56.55	4.88	68.98
68	1428.57	2	SLE R	-23510.80	-332.42	4157.35	6.28	72.26	4.07	57.91
69	1488.10	2	SLE R	-22786.90	-244.59	3058.92	0.00	78.54	3.44	49.26
70	1547.62	2	SLE R	-22064.30	-170.70	2134.78	0.00	78.54	2.90	41.89
71	1607.14	2	SLE R	-21342.80	-109.75	1372.50	0.00	78.54	2.45	35.66
72	1666.67	2	SLE R	-20622.50	-60.67	758.80	0.00	78.54	2.07	30.47
73	1726.19	2	SLE R	-19903.30	-22.38	279.87	0.00	78.54	1.76	26.23
74	1785.71	2	SLE R	-19185.10	6.27	-78.40	0.00	78.54	1.60	23.94
75	1845.24	2	SLE R	-18468.00	26.41	-330.25	0.00	78.54	1.67	24.85
76	1904.76	2	SLE R	-17751.80	39.17	-489.86	0.00	78.54	1.70	25.10
77	1964.29	2	SLE R	-17036.60	45.68	-571.28	0.00	78.54	1.68	24.81
78	2023.81	2	SLE R	-16322.40	47.05	-588.37	0.00	78.54	1.63	24.06
79	2083.33	2	SLE R	-15609.00	44.36	-554.75	0.00	78.54	1.56	22.95
80	2142.86	2	SLE R	-14896.40	38.69	-483.81	0.00	78.54	1.46	21.58
81	2202.38	2	SLE R	-14184.70	31.08	-388.72	0.00	78.54	1.35	20.04
82	2261.90	2	SLE R	-13473.70	22.58	-282.43	0.00	78.54	1.24	18.42

83	2321.43	2	SLE R	-12763.40	14.21	-177.75	0.00	78.54	1.13	16.82
84	2380.95	2	SLE R	-12053.80	6.99	-87.38	0.00	78.54	1.02	15.31
85	2440.48	2	SLE R	-11344.80	1.91	-23.94	0.00	78.54	0.93	14.00
86	2500.00	2	SLE R	-10636.50	0.00	0.00	0.00	78.54	0.86	12.97
87	0.00	4	SLE Q	-34544.40	-3490.78	43656.40	47.12	31.42	43.31	1182.42
88	59.52	4	SLE Q	-35512.40	-3709.29	46389.30	47.12	31.42	46.08	1272.34
89	119.05	4	SLE Q	-35766.50	-3846.60	48106.50	47.12	31.42	47.83	1333.61
90	178.57	4	SLE Q	-36021.80	-3914.39	48954.30	47.12	31.42	48.70	1362.14
91	238.09	4	SLE Q	-36278.10	-3923.46	49067.70	47.12	31.42	48.80	1362.98
92	297.62	4	SLE Q	-36535.70	-3883.69	48570.30	47.12	31.42	48.28	1340.79
93	357.14	4	SLE Q	-36794.30	-3800.31	47527.60	47.12	31.42	47.19	1298.09
94	416.67	4	SLE Q	-36041.70	-3667.22	45863.10	47.12	31.42	45.51	1245.50
95	476.19	4	SLE Q	-35291.10	-3492.01	43671.90	47.12	31.42	43.29	1173.10
96	535.71	4	SLE Q	-34542.30	-3285.53	41089.50	47.12	31.42	40.66	1086.06
97	595.24	4	SLE Q	-33795.40	-3057.21	38234.10	47.12	31.42	37.75	988.89
98	654.76	4	SLE Q	-33050.30	-2815.20	35207.50	47.12	31.42	34.65	885.50
99	714.29	4	SLE Q	-32306.90	-2566.43	32096.30	47.12	31.42	31.46	779.27
100	773.81	4	SLE Q	-31565.30	-2316.68	28973.00	47.12	31.42	28.25	673.05
101	833.33	4	SLE Q	-30825.40	-2070.76	25897.40	47.12	31.42	25.08	569.25
102	892.86	4	SLE Q	-30087.20	-1832.50	22917.70	47.12	31.42	22.00	469.93
103	952.38	4	SLE Q	-29350.60	-1604.95	20071.90	43.98	34.56	19.04	376.82
104	1011.90	4	SLE Q	-28615.50	-1390.41	17388.80	40.84	37.70	16.25	291.47
105	1071.43	4	SLE Q	-27882.00	-1190.55	14889.20	40.84	37.70	13.66	215.35
106	1130.95	4	SLE Q	-27149.90	-1006.46	12587.00	40.84	37.70	11.29	153.32
107	1190.48	4	SLE Q	-26419.40	-838.80	10490.20	34.56	43.98	9.19	126.06
108	1250.00	4	SLE Q	-25690.20	-687.79	8601.68	34.56	43.98	7.40	102.67
109	1309.52	4	SLE Q	-24962.40	-553.34	6920.25	28.27	50.27	5.97	83.66
110	1369.05	4	SLE Q	-24236.00	-435.08	5441.27	21.99	56.55	4.88	68.98
111	1428.57	4	SLE Q	-23510.80	-332.42	4157.35	6.28	72.26	4.07	57.91
112	1488.10	4	SLE Q	-22786.90	-244.59	3058.92	0.00	78.54	3.44	49.26
113	1547.62	4	SLE Q	-22064.30	-170.70	2134.78	0.00	78.54	2.90	41.89
114	1607.14	4	SLE Q	-21342.80	-109.75	1372.50	0.00	78.54	2.45	35.66
115	1666.67	4	SLE Q	-20622.50	-60.67	758.80	0.00	78.54	2.07	30.47
116	1726.19	4	SLE Q	-19903.30	-22.38	279.87	0.00	78.54	1.76	26.23
117	1785.71	4	SLE Q	-19185.10	6.27	-78.40	0.00	78.54	1.60	23.94
118	1845.24	4	SLE Q	-18468.00	26.41	-330.25	0.00	78.54	1.67	24.85
119	1904.76	4	SLE Q	-17751.80	39.17	-489.86	0.00	78.54	1.70	25.10
120	1964.29	4	SLE Q	-17036.60	45.68	-571.28	0.00	78.54	1.68	24.81
121	2023.81	4	SLE Q	-16322.40	47.05	-588.37	0.00	78.54	1.63	24.06
122	2083.33	4	SLE Q	-15609.00	44.36	-554.75	0.00	78.54	1.56	22.95
123	2142.86	4	SLE Q	-14896.40	38.69	-483.81	0.00	78.54	1.46	21.58
124	2202.38	4	SLE Q	-14184.70	31.08	-388.72	0.00	78.54	1.35	20.04
125	2261.90	4	SLE Q	-13473.70	22.58	-282.43	0.00	78.54	1.24	18.42
126	2321.43	4	SLE Q	-12763.40	14.21	-177.75	0.00	78.54	1.13	16.82
127	2380.95	4	SLE Q	-12053.80	6.99	-87.38	0.00	78.54	1.02	15.31
128	2440.48	4	SLE Q	-11344.80	1.91	-23.94	0.00	78.54	0.93	14.00
129	2500.00	4	SLE Q	-10636.50	0.00	0.00	0.00	78.54	0.86	12.97

Stato limite d'esercizio - Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-34544.40	43656.40	-3490.78	46.00	136.36	0.50	20.00	208.75	21.99	1283.77	1182.42	0.34	0.12
88	59.52	4	SLE Q	-35512.40	46389.30	-3709.29	46.00	136.36	0.50	20.00	209.08	21.99	1287.34	1272.34	0.37	0.13
89	119.05	4	SLE Q	-35766.50	48106.50	-3846.60	46.00	136.36	0.50	20.00	209.35	21.99	1290.37	1333.61	0.39	0.14
90	178.57	4	SLE Q	-36021.80	48954.30	-3914.39	46.00	136.36	0.50	20.00	209.45	21.99	1291.42	1362.14	0.40	0.14
91	238.09	4	SLE Q	-36278.10	49067.70	-3923.46	46.00	136.36	0.50	20.00	209.41	21.99	1290.94	1362.98	0.40	0.14
92	297.62	4	SLE Q	-36535.70	48570.30	-3883.69	46.00	136.36	0.50	20.00	209.25	21.99	1289.18	1340.79	0.39	0.14
93	357.14	4	SLE Q	-36794.30	47527.60	-3800.31	46.00	136.36	0.50	20.00	208.97	21.99	1286.15	1298.09	0.38	0.13
94	416.67	4	SLE Q	-36041.70	45863.10	-3667.22	46.00	136.36	0.50	20.00	208.82	21.99	1284.52	1245.50	0.36	0.13
95	476.19	4	SLE Q	-35291.10	43671.90	-3492.01	46.00	136.36	0.50	20.00	208.54	21.99	1281.41	1173.10	0.34	0.12
96	535.71	4	SLE Q	-34542.30	41089.50	-3285.53	46.00	136.36	0.50	20.00	208.12	21.99	1276.80	1086.06	0.32	0.11
97	595.24	4	SLE Q	-33795.40	38234.10	-3057.21	46.00	136.36	0.50	20.00	207.55	21.99	1270.58	988.89	0.29	0.10
98	654.76	4	SLE Q	-33050.30	35207.50	-2815.20	46.00	136.36	0.50	20.00	206.82	21.99	1262.53	885.50	0.26	0.09
99	714.29	4	SLE Q	-32306.90	32096.30	-2566.43	46.00	136.36	0.50	20.00	205.89	21.99	1252.31	779.27	0.23	0.08
100	773.81	4	SLE Q	-31565.30	28973.00	-2316.68	46.00	136.36	0.50	20.00	204.72	21.99	1239.40	673.05	0.20	0.07
101	833.33	4	SLE Q	-30825.40	25897.40	-2070.76	46.00	136.36	0.50	20.00	203.23	21.99	1223.06	569.25	0.17	0.06
102	892.86	4	SLE Q	-30087.20	22917.70	-1832.50	46.00	136.36	0.50	20.00	201.32	21.99	1202.06	469.93	0.14	0.05
103	952.38	4	SLE Q	-29350.60	20071.90	-1604.95	46.00	136.36	0.50	20.00	198.82	21.99	1174.58	376.82	0.11	0.04
104	1011.90	4	SLE Q	-28615.50	17388.80	-1390.41	46.00	136.36	0.50	20.00	195.48	21.99	1137.87	291.47	0.08	0.03
105	1071.43	4	SLE Q	-27882.00	14889.20	-1190.55	46.00	136.36	0.50	20.00	190.92	21.99	1087.68	215.35	0.06	0.02
106	1130.95	4	SLE Q	-27149.90	12587.00	-1006.46	46.00	136.36	0.50	20.00	199.94	18.85	1017.31	149.93	0.04	0.01
107	1190.48	4	SLE Q	-26419.40	10490.20	-838.80	46.00	136.36	0.50	20.00	208.50	15.71	915.00	96.65	0.03	0.01
108	1250.00	4	SLE Q	-25690.20	8601.68	-687.79	46.00	136.36	0.50	20.00	188.28	15.71	756.19	56.45	0.02	0.01
109	1309.52	4	SLE Q	-24962.40	6920.25	-553.34	46.00	136.36	0.50	20.00	198.13	9.42	500.15	28.83	0.01	0.00
110	1369.05	4	SLE Q	-24236.00	5441.27	-435.08	46.00	136.36	0.50	20.00	169.67	6.28	244.00	11.39	0.00	0.00
130	0.00	3	SLE F	-34544.40	43656.40	-3490.78	46.00	136.36	0.50	20.00	208.75	21.99	1283.77	1182.42	0.34	0.12
131	59.52	3	SLE F	-35512.40	46389.30	-3709.29	46.00	136.36	0.50	20.00	209.08	21.99	1287.34	1272.34	0.37	0.13

132	119.05	3	SLE F	-35766.50	48106.50	-3846.60	46.00	136.36	0.50	20.00	209.35	21.99	1290.37	1333.61	0.39	0.14
133	178.57	3	SLE F	-36021.80	48954.30	-3914.39	46.00	136.36	0.50	20.00	209.45	21.99	1291.42	1362.14	0.40	0.14
134	238.09	3	SLE F	-36278.10	49067.70	-3923.46	46.00	136.36	0.50	20.00	209.41	21.99	1290.94	1362.98	0.40	0.14
135	297.62	3	SLE F	-36535.70	48570.30	-3883.69	46.00	136.36	0.50	20.00	209.25	21.99	1289.18	1340.79	0.39	0.14
136	357.14	3	SLE F	-36794.30	47527.60	-3800.31	46.00	136.36	0.50	20.00	208.97	21.99	1286.15	1298.09	0.38	0.13
137	416.67	3	SLE F	-36041.70	45863.10	-3667.22	46.00	136.36	0.50	20.00	208.82	21.99	1284.52	1245.50	0.36	0.13
138	476.19	3	SLE F	-35291.10	43671.90	-3492.01	46.00	136.36	0.50	20.00	208.54	21.99	1281.41	1173.10	0.34	0.12
139	535.71	3	SLE F	-34542.30	41089.50	-3285.53	46.00	136.36	0.50	20.00	208.12	21.99	1276.80	1086.06	0.32	0.11
140	595.24	3	SLE F	-33795.40	38234.10	-3057.21	46.00	136.36	0.50	20.00	207.55	21.99	1270.58	988.89	0.29	0.10
141	654.76	3	SLE F	-33050.30	35207.50	-2815.20	46.00	136.36	0.50	20.00	206.82	21.99	1262.53	885.50	0.26	0.09
142	714.29	3	SLE F	-32306.90	32096.30	-2566.43	46.00	136.36	0.50	20.00	205.89	21.99	1252.31	779.27	0.23	0.08
143	773.81	3	SLE F	-31565.30	28973.00	-2316.68	46.00	136.36	0.50	20.00	204.72	21.99	1239.40	673.05	0.20	0.07
144	833.33	3	SLE F	-30825.40	25897.40	-2070.76	46.00	136.36	0.50	20.00	203.23	21.99	1223.06	569.25	0.17	0.06
145	892.86	3	SLE F	-30087.20	22917.70	-1832.50	46.00	136.36	0.50	20.00	201.32	21.99	1202.06	469.93	0.14	0.05
146	952.38	3	SLE F	-29350.60	20071.90	-1604.95	46.00	136.36	0.50	20.00	198.82	21.99	1174.58	376.82	0.11	0.04
147	1011.90	3	SLE F	-28615.50	17388.80	-1390.41	46.00	136.36	0.50	20.00	195.48	21.99	1137.87	291.47	0.08	0.03
148	1071.43	3	SLE F	-27882.00	14889.20	-1190.55	46.00	136.36	0.50	20.00	190.92	21.99	1087.68	215.35	0.06	0.02
149	1130.95	3	SLE F	-27149.90	12587.00	-1006.46	46.00	136.36	0.50	20.00	199.94	18.85	1017.31	149.93	0.04	0.01
150	1190.48	3	SLE F	-26419.40	10490.20	-838.80	46.00	136.36	0.50	20.00	208.50	15.71	915.00	96.65	0.03	0.01
151	1250.00	3	SLE F	-25690.20	8601.68	-687.79	46.00	136.36	0.50	20.00	188.28	15.71	756.19	56.45	0.02	0.01
152	1309.52	3	SLE F	-24962.40	6920.25	-553.34	46.00	136.36	0.50	20.00	198.13	9.42	500.15	28.83	0.01	0.00
153	1369.05	3	SLE F	-24236.00	5441.27	-435.08	46.00	136.36	0.50	20.00	169.67	6.28	244.00	11.39	0.00	0.00

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
48	C.Rare - Sc min (max compr.),C.Rare - Sf max (max traz.),C.Rare - Sf min (max compr.)
69	C.Rare - Sc max (min. compr.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf max (max traz.),C.Q.Per. - Sf min (max compr.),C.Q.Per. - Wk Max
112	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Palo n. 33

Caratteristiche del palo e dei materiali utilizzati

R <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
60.00	6.00	C30/37	307.10	20.59	174.02	13.73	B450C	4300.00	3913.04

Le sollecitazioni nei pali vengono calcolate oltre che per l'effetto delle reazioni vincolari anche considerando i seguenti effetti

Azioni ed effetti comuni

Az	N <daN>	Mx <daNm>	My <daNm>	Mz <daNm>
PP	0.00	0.00	0.00	
SVR	0.00			

Azioni ed effetti - Plinto/Palo n. 33 (-8)

Caso	CC	TCC	Az	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	RVN	22207.30	7608.59	392.10	56863.60	1420.21
	1	SLU	TAG				0.00	0.00
	1	SLU	ECC				0.00	0.00
	1	SLU	TOT	22207.30	7608.59	392.10	56863.60	1420.21
2	2	SLE R	RVN	16449.90	5636.00	290.44	42121.10	1052.01
	2	SLE R	TAG				0.00	0.00
	2	SLE R	ECC				0.00	0.00
	2	SLE R	TOT	16449.90	5636.00	290.44	42121.10	1052.01
3	3	SLE F	RVN	16449.90	5636.00	290.44	42121.10	1052.01
	3	SLE F	TAG				0.00	0.00
	3	SLE F	ECC				0.00	0.00
	3	SLE F	TOT	16449.90	5636.00	290.44	42121.10	1052.01
4	4	SLE Q	RVN	16449.90	5636.00	290.44	42121.10	1052.01
	4	SLE Q	TAG				0.00	0.00
	4	SLE Q	ECC				0.00	0.00
	4	SLE Q	TOT	16449.90	5636.00	290.44	42121.10	1052.01

Sollecitazioni nei pali

Caso	CC	TCC	Palo	N <daN>	Tx <daN>	Ty <daN>	Mx <daNm>	My <daNm>
1	1	SLU	1	-22207.30	-7608.59	-392.10	-56863.60	-1420.21
2	2	SLE R	1	-16449.90	-5636.00	-290.44	-42121.10	-1052.01
3	3	SLE F	1	-16449.90	-5636.00	-290.44	-42121.10	-1052.01
4	4	SLE Q	1	-16449.90	-5636.00	-290.44	-42121.10	-1052.01

Da 0 a -25

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1	0.00	1	SLU	-22207.30	56614.80	-1414.00	-22207.30	156076.00	-3387.27	2-3	181.25	2.757
2	59.52	1	SLU	-23261.10	60402.80	-1508.61	-23261.10	156519.00	-3415.44	2-3	181.25	2.591
3	119.05	1	SLU	-23686.30	62835.70	-1569.37	-23686.30	156698.00	-3426.84	2-3	181.25	2.494
4	178.57	1	SLU	-24112.30	64107.10	-1601.13	-24112.30	156878.00	-3438.27	2-3	181.25	2.447
5	238.09	1	SLU	-24539.10	64395.80	-1608.34	-24539.10	157057.00	-3449.73	2-3	181.25	2.439
6	297.62	1	SLU	-24966.60	63865.90	-1595.10	-24966.60	157237.00	-3461.23	2-3	181.25	2.462
7	357.14	1	SLU	-25394.90	62603.00	-1563.56	-25394.90	157417.00	-3472.77	2-3	181.25	2.514
8	416.67	1	SLU	-24932.00	60502.40	-1511.10	-24932.00	157222.00	-3460.30	2-3	181.25	2.598
9	476.19	1	SLU	-24470.40	57689.70	-1440.85	-24470.40	157028.00	-3447.89	2-3	181.25	2.722
10	535.71	1	SLU	-24010.20	54345.40	-1357.32	-24010.20	156835.00	-3435.53	2-3	181.25	2.886
11	595.24	1	SLU	-23551.30	50627.10	-1264.45	-23551.30	156641.00	-3423.22	2-3	181.25	3.094
12	654.76	1	SLU	-23093.60	46670.60	-1165.64	-23093.60	156449.00	-3410.96	2-3	181.25	3.352
13	714.29	1	SLU	-22637.10	42591.90	-1063.77	-22637.10	156257.00	-3398.75	2-3	181.25	3.668
14	773.81	1	SLU	-22181.90	38488.10	-961.27	-22181.90	156065.00	-3386.59	2-3	181.25	4.055
15	833.33	1	SLU	-21727.80	34439.30	-860.15	-21727.80	155874.00	-3374.47	2-3	181.25	4.526
16	892.86	1	SLU	-21275.00	30510.60	-762.03	-21275.00	155683.00	-3362.41	2-3	181.25	5.102
17	952.38	1	SLU	-20823.20	26753.10	-668.18	-20823.20	155493.00	-3350.38	2-3	181.25	5.812
18	1011.90	1	SLU	-20372.60	23205.80	-579.58	-20372.60	155303.00	-3338.41	2-3	181.25	6.692
19	1071.43	1	SLU	-19923.10	19897.10	-496.95	-19923.10	155114.00	-3326.48	2-3	181.25	7.795
20	1130.95	1	SLU	-19474.60	16846.30	-420.75	-19474.60	154925.00	-3314.60	2-3	181.25	9.196
21	1190.48	1	SLU	-19027.20	14064.40	-351.27	-19027.20	154737.00	-3302.76	2-3	181.25	11.001
22	1250.00	1	SLU	-18580.80	11556.10	-288.62	-18580.80	154549.00	-3290.97	2-3	181.25	13.373
23	1309.52	1	SLU	-18135.40	9320.29	-232.78	-18135.40	154361.00	-3279.16	2-3	181.25	16.560
24	1369.05	1	SLU	-17691.00	7351.28	-183.60	-17691.00	154173.00	-3267.17	2-3	181.25	20.971
25	1428.57	1	SLU	-17247.50	5639.69	-140.86	-17247.50	153986.00	-3254.83	2-3	181.25	27.302
26	1488.10	1	SLU	-16805.00	4173.23	-104.23	-16805.00	153799.00	-3242.52	2-3	181.25	36.850
27	1547.62	1	SLU	-16363.30	2937.36	-73.36	-16363.30	153612.00	-3230.26	2-3	181.25	52.291
28	1607.14	1	SLU	-15922.60	1915.87	-47.85	-15922.60	153425.00	-3218.05	2-3	181.25	80.074
29	1666.67	1	SLU	-15482.60	1091.41	-27.26	-15482.60	153239.00	-3205.86	2-3	181.25	>100
30	1726.19	1	SLU	-15043.60	445.84	-11.14	-2571250.00	153053.00	-3193.72	2-3	181.25	>100
31	1785.71	1	SLU	-14605.30	-39.39	0.98	-2571250.00	-152975.00	3603.97	2-3	1.25	>100
32	1845.24	1	SLU	-14167.80	-383.01	9.57	-2571250.00	-152790.00	3614.24	2-3	1.25	>100
33	1904.76	1	SLU	-13731.00	-603.71	15.08	-2571250.00	-152605.00	3624.45	2-3	1.25	>100
34	1964.29	1	SLU	-13295.00	-720.06	17.98	-2571250.00	-152421.00	3634.63	2-3	1.25	>100
35	2023.81	1	SLU	-12859.80	-750.36	18.74	-2571250.00	-152237.00	3644.77	2-3	1.25	>100
36	2083.33	1	SLU	-12425.20	-712.62	17.80	-2571250.00	-152053.00	3654.86	2-3	1.25	>100
37	2142.86	1	SLU	-11991.20	-624.55	15.60	-2571250.00	-151869.00	3664.90	2-3	1.25	>100
38	2202.38	1	SLU	-11557.90	-503.58	12.58	-2571250.00	-151686.00	3674.91	2-3	1.25	>100
39	2261.90	1	SLU	-11125.30	-366.87	9.16	-2571250.00	-151503.00	3684.88	2-3	1.25	>100
40	2321.43	1	SLU	-10693.20	-231.39	5.78	-2571250.00	-151320.00	3694.80	2-3	1.25	>100
41	2380.95	1	SLU	-10261.70	-113.95	2.85	-2571250.00	-151138.00	3704.69	2-3	1.25	>100
42	2440.48	1	SLU	-9830.76	-31.26	0.78	-2571250.00	-150955.00	3714.54	2-3	1.25	>100
43	2500.00	1	SLU	-9400.35	0.00	0.00	-2571250.00					>100

Stato limite ultimo - Verifiche a taglio

Caso	X <cm>	CC	TCC	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	1	SLU	7608.59	392.10	0.85	11.31	7618.69	1.00	32294.70	334849.00	32294.70	4.239
2	59.52	1	SLU	5164.12	266.13	0.85	11.31	5170.97	1.00	32294.70	335000.00	32294.70	6.245
3	119.05	1	SLU	3056.38	157.51	0.85	11.31	3060.44	1.00	32294.70	335061.00	32294.70	10.552
4	178.57	1	SLU	1261.23	65.00	0.85	11.31	1262.90	1.00	32294.70	335122.00	32294.70	25.572
5	238.09	1	SLU	-246.18	-12.69	0.85	11.31	246.51	1.00	32294.70	335183.00	32294.70	>100
6	297.62	1	SLU	-1491.00	-76.84	0.85	11.31	1492.98	1.00	32294.70	335244.00	32294.70	21.631
7	357.14	1	SLU	-2816.74	-145.16	0.85	11.31	2820.48	1.00	32294.70	335306.00	32294.70	11.450
8	416.67	1	SLU	-4176.79	-215.25	0.85	11.31	4182.33	1.00	32294.70	335239.00	32294.70	7.722
9	476.19	1	SLU	-5213.88	-268.69	0.85	11.31	5220.80	1.00	32294.70	335173.00	32294.70	6.186
10	535.71	1	SLU	-5967.58	-307.53	0.85	11.31	5975.50	1.00	32294.70	335107.00	32294.70	5.405
11	595.24	1	SLU	-6475.38	-333.70	0.85	11.31	6483.97	1.00	32294.70	335042.00	32294.70	4.981
12	654.76	1	SLU	-6772.39	-349.01	0.85	11.31	6781.37	1.00	32294.70	334976.00	32294.70	4.762
13	714.29	1	SLU	-6891.13	-355.13	0.85	11.31	6900.28	1.00	32294.70	334911.00	32294.70	4.680
14	773.81	1	SLU	-6861.46	-353.60	0.85	11.31	6870.56	1.00	32294.70	334845.00	32294.70	4.700
15	833.33	1	SLU	-6710.45	-345.82	0.85	11.31	6719.35	1.00	32294.70	334780.00	32294.70	4.806
16	892.86	1	SLU	-6462.46	-333.04	0.85	11.31	6471.04	1.00	32294.70	334716.00	32294.70	4.991
17	952.38	1	SLU	-6139.19	-316.38	0.85	11.31	6147.34	1.00	32294.70	334651.00	32294.70	5.253
18	1011.90	1	SLU	-5759.74	-296.82	0.85	11.31	5767.38	1.00	32294.70	334586.00	32294.70	5.600
19	1071.43	1	SLU	-5340.77	-275.23	0.85	11.31	5347.86	1.00	32294.70	334522.00	32294.70	6.039
20	1130.95	1	SLU	-4896.66	-252.34	0.85	11.31	4903.16	1.00	32294.70	334458.00	32294.70	6.587
21	1190.48	1	SLU	-4439.65	-228.79	0.85	11.31	4445.54	1.00	32294.70	334394.00	32294.70	7.265
22	1250.00	1	SLU	-3980.04	-205.11	0.85	11.31	3985.32	1.00	32294.70	334330.00	32294.70	8.103
23	1309.52	1	SLU	-3526.34	-181.73	0.85	11.31	3531.02	1.00	32294.70	334266.00	32294.70	9.146
24	1369.05	1	SLU	-3085.51	-159.01	0.85	11.31	3089.60	1.00	32294.70	334202.00	32294.70	10.453
25	1428.57	1	SLU	-2663.07	-137.24	0.85	11.31	2666.60	1.00	32294.70	334139.00	32294.70	12.111

26	1488.10	1	SLU	-2263.33	-116.64	0.85	11.31	2266.34	1.00	32294.70	334075.00	32294.70	14.250
27	1547.62	1	SLU	-1889.54	-97.38	0.85	11.31	1892.05	1.00	32294.70	334012.00	32294.70	17.069
28	1607.14	1	SLU	-1544.05	-79.57	0.85	11.31	1546.10	1.00	32294.70	333949.00	32294.70	20.888
29	1666.67	1	SLU	-1228.43	-63.31	0.85	11.31	1230.07	1.00	32294.70	333886.00	32294.70	26.255
30	1726.19	1	SLU	-943.68	-48.63	0.85	11.31	944.93	1.00	32294.70	333823.00	32294.70	34.177
31	1785.71	1	SLU	-690.28	-35.57	0.85	11.31	691.19	1.00	32294.70	333760.00	32294.70	46.723
32	1845.24	1	SLU	-468.33	-24.14	0.85	11.31	468.95	1.00	32294.70	333697.00	32294.70	68.865
33	1904.76	1	SLU	-277.68	-14.31	0.85	11.31	278.05	1.00	32294.70	333635.00	32294.70	>100
34	1964.29	1	SLU	-117.98	-6.08	0.85	11.31	118.14	1.00	32294.70	333572.00	32294.70	>100
35	2023.81	1	SLU	11.24	0.58	0.85	11.31	11.26	1.00	32294.70	333510.00	32294.70	>100
36	2083.33	1	SLU	110.48	5.69	0.85	11.31	110.63	1.00	32294.70	333448.00	32294.70	>100
37	2142.86	1	SLU	180.25	9.29	0.85	11.31	180.49	1.00	32294.70	333386.00	32294.70	>100
38	2202.38	1	SLU	221.00	11.39	0.85	11.31	221.30	1.00	32294.70	333324.00	32294.70	>100
39	2261.90	1	SLU	233.13	12.01	0.85	11.31	233.44	1.00	32294.70	333262.00	32294.70	>100
40	2321.43	1	SLU	216.93	11.18	0.85	11.31	217.22	1.00	32294.70	333200.00	32294.70	>100
41	2380.95	1	SLU	172.60	8.89	0.85	11.31	172.83	1.00	32294.70	333138.00	32294.70	>100
42	2440.48	1	SLU	100.28	5.17	0.85	11.31	100.41	1.00	32294.70	333076.00	32294.70	>100

Verifiche stato limite d'esercizio

Caso	X <cm>	CC	TCC	N <daN>	Mz <daNm>	My <daNm>	AfT <cmq>	AfC <cmq>	σ_c <daN/cmq>	σ_f <daN/cmq>
44	0.00	2	SLE R	-16449.90	-1047.41	41936.90	50.27	28.27	42.31	1359.62
45	59.52	2	SLE R	-17543.60	-1117.49	44742.80	50.27	28.27	45.15	1450.68
46	119.05	2	SLE R	-18048.70	-1162.50	46545.00	50.27	28.27	46.97	1511.94
47	178.57	2	SLE R	-18554.40	-1186.02	47486.80	50.27	28.27	47.92	1540.56
48	238.09	2	SLE R	-19060.70	-1191.36	47700.60	50.27	28.27	48.12	1541.58
49	297.62	2	SLE R	-19567.50	-1181.56	47308.10	50.27	28.27	47.71	1519.59
50	357.14	2	SLE R	-20075.00	-1158.19	46372.60	50.27	28.27	46.74	1477.05
51	416.67	2	SLE R	-19747.30	-1119.33	44816.60	50.27	28.27	45.16	1422.66
52	476.19	2	SLE R	-19420.70	-1067.30	42733.10	50.27	28.27	43.04	1348.28
53	535.71	2	SLE R	-19095.10	-1005.42	40255.90	50.27	28.27	40.52	1258.99
54	595.24	2	SLE R	-18770.50	-936.63	37501.50	50.27	28.27	37.72	1159.22
55	654.76	2	SLE R	-18447.00	-863.44	34570.90	50.27	28.27	34.73	1052.83
56	714.29	2	SLE R	-18124.40	-787.98	31549.60	50.27	28.27	31.65	943.09
57	773.81	2	SLE R	-17802.80	-712.05	28509.70	47.12	31.42	28.54	832.74
58	833.33	2	SLE R	-17482.20	-637.15	25510.60	47.12	31.42	25.47	724.09
59	892.86	2	SLE R	-17162.50	-564.47	22600.40	47.12	31.42	22.49	619.01
60	952.38	2	SLE R	-16843.70	-494.95	19817.10	47.12	31.42	19.62	519.00
61	1011.90	2	SLE R	-16525.80	-429.32	17189.50	47.12	31.42	16.91	425.27
62	1071.43	2	SLE R	-16208.80	-368.11	14738.60	47.12	31.42	14.37	338.77
63	1130.95	2	SLE R	-15892.70	-311.67	12478.70	47.12	31.42	12.02	260.30
64	1190.48	2	SLE R	-15577.50	-260.20	10418.10	43.98	34.56	9.86	190.58
65	1250.00	2	SLE R	-15263.00	-213.79	8560.09	40.84	37.70	7.91	130.46
66	1309.52	2	SLE R	-14949.40	-172.43	6903.92	40.84	37.70	6.19	83.97
67	1369.05	2	SLE R	-14636.60	-136.00	5445.39	34.56	43.98	4.73	65.09
68	1428.57	2	SLE R	-14324.60	-104.34	4177.55	28.27	50.27	3.59	50.14
69	1488.10	2	SLE R	-14013.30	-77.21	3091.28	18.85	59.69	2.79	39.38
70	1547.62	2	SLE R	-13702.80	-54.34	2175.82	0.00	78.54	2.24	31.97
71	1607.14	2	SLE R	-13393.00	-35.44	1419.16	0.00	78.54	1.82	26.28
72	1666.67	2	SLE R	-13084.00	-20.19	808.45	0.00	78.54	1.48	21.62
73	1726.19	2	SLE R	-12775.60	-8.25	330.25	0.00	78.54	1.21	17.89
74	1785.71	2	SLE R	-12468.00	0.73	-29.18	0.00	78.54	1.03	15.41
75	1845.24	2	SLE R	-12161.00	7.09	-283.71	0.00	78.54	1.14	16.82
76	1904.76	2	SLE R	-11854.60	11.17	-447.19	0.00	78.54	1.20	17.60
77	1964.29	2	SLE R	-11548.90	13.32	-533.38	0.00	78.54	1.21	17.83
78	2023.81	2	SLE R	-11243.80	13.88	-555.82	0.00	78.54	1.20	17.62
79	2083.33	2	SLE R	-10939.30	13.18	-527.87	0.00	78.54	1.16	17.05
80	2142.86	2	SLE R	-10635.40	11.55	-462.63	0.00	78.54	1.10	16.22
81	2202.38	2	SLE R	-10332.10	9.32	-373.02	0.00	78.54	1.03	15.22
82	2261.90	2	SLE R	-10029.30	6.79	-271.76	0.00	78.54	0.96	14.14
83	2321.43	2	SLE R	-9727.10	4.28	-171.40	0.00	78.54	0.88	13.07
84	2380.95	2	SLE R	-9425.39	2.11	-84.41	0.00	78.54	0.81	12.09
85	2440.48	2	SLE R	-9124.17	0.58	-23.16	0.00	78.54	0.75	11.29
86	2500.00	2	SLE R	-8823.46	0.00	0.00	0.00	78.54	0.72	10.76
87	0.00	4	SLE Q	-16449.90	-1047.41	41936.90	50.27	28.27	42.31	1359.62
88	59.52	4	SLE Q	-17543.60	-1117.49	44742.80	50.27	28.27	45.15	1450.68
89	119.05	4	SLE Q	-18048.70	-1162.50	46545.00	50.27	28.27	46.97	1511.94
90	178.57	4	SLE Q	-18554.40	-1186.02	47486.80	50.27	28.27	47.92	1540.56
91	238.09	4	SLE Q	-19060.70	-1191.36	47700.60	50.27	28.27	48.12	1541.58
92	297.62	4	SLE Q	-19567.50	-1181.56	47308.10	50.27	28.27	47.71	1519.59
93	357.14	4	SLE Q	-20075.00	-1158.19	46372.60	50.27	28.27	46.74	1477.05
94	416.67	4	SLE Q	-19747.30	-1119.33	44816.60	50.27	28.27	45.16	1422.66
95	476.19	4	SLE Q	-19420.70	-1067.30	42733.10	50.27	28.27	43.04	1348.28
96	535.71	4	SLE Q	-19095.10	-1005.42	40255.90	50.27	28.27	40.52	1258.99
97	595.24	4	SLE Q	-18770.50	-936.63	37501.50	50.27	28.27	37.72	1159.22
98	654.76	4	SLE Q	-18447.00	-863.44	34570.90	50.27	28.27	34.73	1052.83
99	714.29	4	SLE Q	-18124.40	-787.98	31549.60	50.27	28.27	31.65	943.09

100	773.81	4	SLE Q	-17802.80	-712.05	28509.70	47.12	31.42	28.54	832.74
101	833.33	4	SLE Q	-17482.20	-637.15	25510.60	47.12	31.42	25.47	724.09
102	892.86	4	SLE Q	-17162.50	-564.47	22600.40	47.12	31.42	22.49	619.01
103	952.38	4	SLE Q	-16843.70	-494.95	19817.10	47.12	31.42	19.62	519.00
104	1011.90	4	SLE Q	-16525.80	-429.32	17189.50	47.12	31.42	16.91	425.27
105	1071.43	4	SLE Q	-16208.80	-368.11	14738.60	47.12	31.42	14.37	338.77
106	1130.95	4	SLE Q	-15892.70	-311.67	12478.70	47.12	31.42	12.02	260.30
107	1190.48	4	SLE Q	-15577.50	-260.20	10418.10	43.98	34.56	9.86	190.58
108	1250.00	4	SLE Q	-15263.00	-213.79	8560.09	40.84	37.70	7.91	130.46
109	1309.52	4	SLE Q	-14949.40	-172.43	6903.92	40.84	37.70	6.19	83.97
110	1369.05	4	SLE Q	-14636.60	-136.00	5445.39	34.56	43.98	4.73	65.09
111	1428.57	4	SLE Q	-14324.60	-104.34	4177.55	28.27	50.27	3.59	50.14
112	1488.10	4	SLE Q	-14013.30	-77.21	3091.28	18.85	59.69	2.79	39.38
113	1547.62	4	SLE Q	-13702.80	-54.34	2175.82	0.00	78.54	2.24	31.97
114	1607.14	4	SLE Q	-13393.00	-35.44	1419.16	0.00	78.54	1.82	26.28
115	1666.67	4	SLE Q	-13084.00	-20.19	808.45	0.00	78.54	1.48	21.62
116	1726.19	4	SLE Q	-12775.60	-8.25	330.25	0.00	78.54	1.21	17.89
117	1785.71	4	SLE Q	-12468.00	0.73	-29.18	0.00	78.54	1.03	15.41
118	1845.24	4	SLE Q	-12161.00	7.09	-283.71	0.00	78.54	1.14	16.82
119	1904.76	4	SLE Q	-11854.60	11.17	-447.19	0.00	78.54	1.20	17.60
120	1964.29	4	SLE Q	-11548.90	13.32	-533.38	0.00	78.54	1.21	17.83
121	2023.81	4	SLE Q	-11243.80	13.88	-555.82	0.00	78.54	1.20	17.62
122	2083.33	4	SLE Q	-10939.30	13.18	-527.87	0.00	78.54	1.16	17.05
123	2142.86	4	SLE Q	-10635.40	11.55	-462.63	0.00	78.54	1.10	16.22
124	2202.38	4	SLE Q	-10332.10	9.32	-373.02	0.00	78.54	1.03	15.22
125	2261.90	4	SLE Q	-10029.30	6.79	-271.76	0.00	78.54	0.96	14.14
126	2321.43	4	SLE Q	-9727.10	4.28	-171.40	0.00	78.54	0.88	13.07
127	2380.95	4	SLE Q	-9425.39	2.11	-84.41	0.00	78.54	0.81	12.09
128	2440.48	4	SLE Q	-9124.17	0.58	-23.16	0.00	78.54	0.75	11.29
129	2500.00	4	SLE Q	-8823.46	0.00	0.00	0.00	78.54	0.72	10.76

Stato limite d'esercizio – Verifiche a fessurazione

Caso	X <cm>	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	c <mm>	s <mm>	K_2	Φ_{eq}	Δ_{sm} <mm>	A_s <cmq>	$A_{c\ eff}$ <cmq>	σ_s <daN/cmq>	ε_{sm}	Wk <mm>
87	0.00	4	SLE Q	-16449.90	41936.90	-1047.41	46.00	136.36	0.50	20.00	213.20	21.99	1332.71	1359.62	0.40	0.14
88	59.52	4	SLE Q	-17543.60	44742.80	-1117.49	46.00	136.36	0.50	20.00	213.21	21.99	1332.72	1450.68	0.42	0.15
89	119.05	4	SLE Q	-18048.70	46545.00	-1162.50	46.00	136.36	0.50	20.00	213.25	21.99	1333.25	1511.94	0.44	0.16
90	178.57	4	SLE Q	-18554.40	47486.80	-1186.02	46.00	136.36	0.50	20.00	213.22	21.99	1332.89	1540.56	0.45	0.16
91	238.09	4	SLE Q	-19060.70	47700.60	-1191.36	46.00	136.36	0.50	20.00	213.12	21.99	1331.82	1541.58	0.45	0.16
92	297.62	4	SLE Q	-19567.50	47308.10	-1181.56	46.00	136.36	0.50	20.00	212.97	21.99	1330.11	1519.59	0.44	0.16
93	357.14	4	SLE Q	-20075.00	46372.60	-1158.19	46.00	136.36	0.50	20.00	212.75	21.99	1327.75	1477.05	0.43	0.16
94	416.67	4	SLE Q	-19747.30	44816.60	-1119.33	46.00	136.36	0.50	20.00	212.67	21.99	1326.80	1422.66	0.41	0.15
95	476.19	4	SLE Q	-19420.70	42733.10	-1067.30	46.00	136.36	0.50	20.00	212.51	21.99	1325.08	1348.28	0.39	0.14
96	535.71	4	SLE Q	-19095.10	40255.90	-1005.42	46.00	136.36	0.50	20.00	212.28	21.99	1322.60	1258.99	0.37	0.13
97	595.24	4	SLE Q	-18770.50	37501.50	-936.63	46.00	136.36	0.50	20.00	211.99	21.99	1319.30	1159.22	0.34	0.12
98	654.76	4	SLE Q	-18447.00	34570.90	-863.44	46.00	136.36	0.50	20.00	211.60	21.99	1315.09	1052.83	0.31	0.11
99	714.29	4	SLE Q	-18124.40	31549.60	-787.98	46.00	136.36	0.50	20.00	211.12	21.99	1309.79	943.09	0.27	0.10
100	773.81	4	SLE Q	-17802.80	28509.70	-712.05	46.00	136.36	0.50	20.00	210.52	21.99	1303.18	832.74	0.24	0.09
101	833.33	4	SLE Q	-17482.20	25510.60	-637.15	46.00	136.36	0.50	20.00	209.77	21.99	1294.93	724.09	0.21	0.08
102	892.86	4	SLE Q	-17162.50	22600.40	-564.47	46.00	136.36	0.50	20.00	208.83	21.99	1284.57	619.01	0.18	0.06
103	952.38	4	SLE Q	-16843.70	19817.10	-494.95	46.00	136.36	0.50	20.00	207.63	21.99	1271.43	519.00	0.15	0.05
104	1011.90	4	SLE Q	-16525.80	17189.50	-429.32	46.00	136.36	0.50	20.00	206.09	21.99	1254.49	425.27	0.12	0.04
105	1071.43	4	SLE Q	-16208.80	14738.60	-368.11	46.00	136.36	0.50	20.00	204.07	21.99	1232.30	338.77	0.10	0.03
106	1130.95	4	SLE Q	-15892.70	12478.70	-311.67	46.00	136.36	0.50	20.00	201.36	21.99	1202.51	260.30	0.08	0.03
107	1190.48	4	SLE Q	-15577.50	10418.10	-260.20	46.00	136.36	0.50	20.00	197.61	21.99	1161.24	190.58	0.06	0.02
108	1250.00	4	SLE Q	-15263.00	8560.09	-213.79	46.00	136.36	0.50	20.00	192.16	21.99	1101.37	130.46	0.04	0.01
109	1309.52	4	SLE Q	-14949.40	6903.92	-172.43	46.00	136.36	0.50	20.00	198.91	18.85	1007.58	81.11	0.02	0.01
110	1369.05	4	SLE Q	-14636.60	5445.39	-136.00	46.00	136.36	0.50	20.00	200.73	15.71	853.99	43.99	0.01	0.00
111	1428.57	4	SLE Q	-14324.60	4177.55	-104.34	46.00	136.36	0.50	20.00	180.59	12.57	556.63	19.64	0.01	0.00
112	1488.10	4	SLE Q	-14013.30	3091.28	-77.21	46.00	136.36	0.50	20.00	230.07	3.14	216.88	5.90	0.00	0.00
130	0.00	3	SLE F	-16449.90	41936.90	-1047.41	46.00	136.36	0.50	20.00	213.20	21.99	1332.71	1359.62	0.40	0.14
131	59.52	3	SLE F	-17543.60	44742.80	-1117.49	46.00	136.36	0.50	20.00	213.21	21.99	1332.72	1450.68	0.42	0.15
132	119.05	3	SLE F	-18048.70	46545.00	-1162.50	46.00	136.36	0.50	20.00	213.25	21.99	1333.25	1511.94	0.44	0.16
133	178.57	3	SLE F	-18554.40	47486.80	-1186.02	46.00	136.36	0.50	20.00	213.22	21.99	1332.89	1540.56	0.45	0.16
134	238.09	3	SLE F	-19060.70	47700.60	-1191.36	46.00	136.36	0.50	20.00	213.12	21.99	1331.82	1541.58	0.45	0.16
135	297.62	3	SLE F	-19567.50	47308.10	-1181.56	46.00	136.36	0.50	20.00	212.97	21.99	1330.11	1519.59	0.44	0.16
136	357.14	3	SLE F	-20075.00	46372.60	-1158.19	46.00	136.36	0.50	20.00	212.75	21.99	1327.75	1477.05	0.43	0.16
137	416.67	3	SLE F	-19747.30	44816.60	-1119.33	46.00	136.36	0.50	20.00	212.67	21.99	1326.80	1422.66	0.41	0.15
138	476.19	3	SLE F	-19420.70	42733.10	-1067.30	46.00	136.36	0.50	20.00	212.51	21.99	1325.08	1348.28	0.39	0.14
139	535.71	3	SLE F	-19095.10	40255.90	-1005.42	46.00	136.36	0.50	20.00	212.28	21.99	1322.60	1258.99	0.37	0.13
140	595.24	3	SLE F	-18770.50	37501.50	-936.63	46.00	136.36	0.50	20.00	211.99	21.99	1319.30	1159.22	0.34	0.12
141	654.76	3	SLE F	-18447.00	34570.90	-863.44	46.00	136.36	0.50	20.00	211.60	21.99	1315.09	1052.83	0.31	0.11
142	714.29	3	SLE F	-18124.40	31549.60	-787.98	46.00	136.36	0.50	20.00	211.12	21.99	1309.79	943.09	0.27	0.10
143	773.81	3	SLE F	-17802.80	28509.70	-712.05	46.00	136.36	0.50	20.00	210.52	21.99	1303.18	832.74	0.24	0.09
144	833.33	3	SLE F	-17482.20	25510.60	-637.15	46.00	136.36	0.50	20.00	209.77	21.99	1294.93	724.09	0.21	0.08
145	892.86	3	SLE F	-17162.50	22600.40	-564.47	46.00	136.36	0.50	20.00	208.83	21.99	1284.57	619.01	0.18	0.06
146	952.38	3	SLE F	-16843.70	19817.10	-494.95	46.00	136.36	0.50	20.00	207.63	21.99	1271.43	519.00	0.15	0.05

147	1011.90	3	SLE F	-16525.80	17189.50	-429.32	46.00	136.36	0.50	20.00	206.09	21.99	1254.49	425.27	0.12	0.04
148	1071.43	3	SLE F	-16208.80	14738.60	-368.11	46.00	136.36	0.50	20.00	204.07	21.99	1232.30	338.77	0.10	0.03
149	1130.95	3	SLE F	-15892.70	12478.70	-311.67	46.00	136.36	0.50	20.00	201.36	21.99	1202.51	260.30	0.08	0.03
150	1190.48	3	SLE F	-15577.50	10418.10	-260.20	46.00	136.36	0.50	20.00	197.61	21.99	1161.24	190.58	0.06	0.02
151	1250.00	3	SLE F	-15263.00	8560.09	-213.79	46.00	136.36	0.50	20.00	192.16	21.99	1101.37	130.46	0.04	0.01
152	1309.52	3	SLE F	-14949.40	6903.92	-172.43	46.00	136.36	0.50	20.00	198.91	18.85	1007.58	81.11	0.02	0.01
153	1369.05	3	SLE F	-14636.60	5445.39	-136.00	46.00	136.36	0.50	20.00	200.73	15.71	853.99	43.99	0.01	0.00
154	1428.57	3	SLE F	-14324.60	4177.55	-104.34	46.00	136.36	0.50	20.00	180.59	12.57	556.63	19.64	0.01	0.00
155	1488.10	3	SLE F	-14013.30	3091.28	-77.21	46.00	136.36	0.50	20.00	230.07	3.14	216.88	5.90	0.00	0.00

Verifiche principali

Caso	Tipo
1	SLU Taglio - min. sic. c.a.,SLU Taglio - min. sic. acciaio
5	SLU N cost - min. sic.
48	C.Rare - Sc min (max compr.),C.Rare - Sf max (max traz.),C.Rare - Sf min (max compr.)
71	C.Rare - Sc max (min. compr.)
91	C.Q.Per. - Sc min (max compr.),C.Q.Per. - Sf max (max traz.),C.Q.Per. - Sf min (max compr.),C.Q.Per. - Wk Max
114	C.Q.Per. - Sc max (min. compr.)
134	C.Freq - Wk Max

Verifiche sezioni aste

Simbologia

Δ_{sm} = Distanza media tra le fessure
Φ_{eq} = Diametro equivalente delle barre
α = Angolo asse neutro a rottura
ε_{sm} = Deformazione unitaria media dell'armatura (*1000)
σ_s = Tensione nell'acciaio nella sezione fessurata
$A_{c\ eff}$ = Area di calcestruzzo efficace
A_s = Area complessiva dei ferri nell'area di calcestruzzo efficace
Asw = Area armatura trasversale
B = Base
CC = Numero della combinazione delle condizioni di carico elementari
Caso = Caso di verifica
Cf = Copriferro
Cls = Tipo di calcestruzzo
Fcd = Resistenza di calcolo a compressione del calcestruzzo
Fck = Resistenza caratteristica cilindrica a compressione del calcestruzzo
Fctd = Resistenza di calcolo a trazione del calcestruzzo
Fctk = Resistenza caratteristica a trazione del calcestruzzo
Fyd = Resistenza di calcolo dell'acciaio
Fyk = Tensione caratteristica di snervamento dell'acciaio
H = Altezza
K_2 = Coefficiente per distribuzione deformazioni
M'ydy = Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Y
M'ydz = Momento resistente massimo in campo sostanzialmente elastico intorno all'asse Z
MRdy = Momento resistente allo stato limite ultimo intorno all'asse Y
MRdz = Momento resistente allo stato limite ultimo intorno all'asse Z
My = Momento flettente intorno all'asse Y
Mz = Momento flettente intorno all'asse Z
N = Sforzo normale
Nu = Sforzo normale ultimo
Rott. = Tipo di rottura
1-2 = Rott. acciaio: $\varepsilon_Y=\varepsilon_{Yd}$, $\varepsilon_C<\varepsilon_{Cu}$
2-3 = Rott. cls: $\varepsilon_Y<\varepsilon_{Yd}$, $\varepsilon_C=\varepsilon_{Cu}$
3-4 = Rott. cls: $\varepsilon_{C0}<\varepsilon_C<\varepsilon_{Cu}$
Sez. = Numero della sezione
Sic. = Sicurezza
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
Tipo = Tipo di verifica effettuata
Tp = Tipo di acciaio
Ty = Taglio in dir. Y
Tz = Taglio in dir. Z
VRcd = Taglio ultimo lato calcestruzzo
VRsd = Taglio ultimo lato armatura
Vrdu = Taglio ultimo resistente
Vsdu = Taglio agente nella direzione del momento ultimo
Wk = Ampiezza caratteristica delle fessure
bw = Larghezza membratura resistente al taglio
c = Ricoprimento dell'armatura
ctgθ = Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
s = Distanza massima tra le barre

SEZIONE N.10

Sezione: Rettangolare - Dati geometrici della sezione

Base <m>	=	2.58
Altezza <m>	=	2.60

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
10	R	258.00	260.00	3.00	C40/50	415.00	25.17	235.17	16.78	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1		SLV	0.00	1152480.00	0.00	0.00	1179210.00	19.52	1-2	179.79	1.023

Stato limite ultimo - Verifiche a taglio

Caso	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	0.00	2.58	40.21	0.00	2.50	913262.00	2428570.00	913262.00	---

Verifiche principali

Caso	Tipo
1	SLU N cost - min. sic.

SEZIONE N.2

Sezione: Rettangolare - Dati geometrici della sezione

Base <m>	=	1.20
Altezza <m>	=	1.50

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
2	R	120.00	150.00	3.00	C40/50	415.00	25.17	235.17	16.78	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1		SLU	0.00	118798.00	0.00	0.00	176901.00	0.00	1-2	180.00	1.489

Stato limite ultimo - Verifiche a taglio

Caso	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	0.00	1.20	40.21	0.00	2.50	520445.00	643708.00	520445.00	---

Verifiche principali

Caso	Tipo
1	SLU N cost - min. sic.

SEZIONE N.3

Sezione: Rettangolare - Dati geometrici della sezione

Base <m>	=	2.58
Altezza <m>	=	1.50

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
3	R	258.00	150.00	3.00	C40/50	415.00	25.17	235.17	16.78	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1		SLU	0.00	777000.00	0.00	0.00	822417.00	-4.17	1-2	179.75	1.058

Stato limite ultimo - Verifiche a taglio

Caso	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	0.00	2.58	20.11	0.00	2.50	262187.00	1394430.00	262187.00	---

Verifiche principali

Caso	Tipo
1	SLU N cost - min. sic.

SEZIONE N.4

Sezione: Rettangolare - Dati geometrici della sezione

Base <m>	=	1.20
Altezza <m>	=	1.50

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
4	R	120.00	150.00	3.00	C40/50	415.00	25.17	235.17	16.78	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1		SLU	0.00	284471.00	0.00	0.00	304398.00	-0.28	1-2	179.63	1.070

Stato limite ultimo - Verifiche a taglio

Caso	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	0.00	1.20	20.11	0.00	2.50	261556.00	647021.00	261556.00	---

Verifiche principali

Caso	Tipo
1	SLU N cost - min. sic.

SEZIONE N.5

Sezione: Rettangolare - Dati geometrici della sezione

Base <m>	=	1.14
Altezza <m>	=	2.60

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
5	R	114.00	260.00	3.00	C40/50	415.00	25.17	235.17	16.78	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1		SLU	0.00	1531750.00	0.00	0.00	1573580.00	-0.00	1-2	180.00	1.027

Stato limite ultimo - Verifiche a taglio

Caso	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	0.00	1.14	40.21	0.00	2.50	909893.00	1069120.00	909893.00	---

Verifiche principali

Caso	Tipo
1	SLU N cost - min. sic.

SEZIONE N.6

Sezione: Rettangolare - Dati geometrici della sezione

Base <m>	=	1.00
Altezza <m>	=	2.60

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
6	R	100.00	260.00	3.00	C40/50	415.00	25.17	235.17	16.78	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1		SLU	0.00	995994.00	0.00	0.00	1024820.00	0.00	1-2	180.00	1.029

Stato limite ultimo - Verifiche a taglio

Caso	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	0.00	1.00	40.21	0.00	2.50	909893.00	937828.00	909893.00	---

Verifiche principali

Caso	Tipo
1	SLU N cost - min. sic.

SEZIONE N.7

Sezione: Rettangolare - Dati geometrici della sezione

Base <m>	=	1.14
Altezza <m>	=	3.50

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
7	R	114.00	350.00	3.00	C40/50	415.00	25.17	235.17	16.78	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1		SLU	0.00	1531750.00	0.00	0.00	1615800.00	0.00	1-2	180.00	1.055

Stato limite ultimo - Verifiche a taglio

Caso	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	0.00	1.14	40.21	0.00	2.50	1228530.00	1443530.00	1228530.00	---

Verifiche principali

Caso	Tipo
1	SLU N cost - min. sic.

SEZIONE N.8

Sezione: Rettangolare - Dati geometrici della sezione

Base <m>	=	0.67
Altezza <m>	=	3.50

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
8	R	67.00	350.00	3.00	C40/50	415.00	25.17	235.17	16.78	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1		SLU	0.00	2133810.00	0.00	0.00	2166050.00	-22.97	1-2	180.39	1.015

Stato limite ultimo - Verifiche a taglio

Caso	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	0.00	0.67	7.85	0.00	2.50	240244.00	849455.00	240244.00	---

Verifiche principali

Caso	Tipo
1	SLU N cost - min. sic.

SEZIONE N.9

Sezione: Rettangolare - Dati geometrici della sezione

Base <m>	=	1.00
Altezza <m>	=	3.50

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>
9	R	100.00	350.00	3.00	C40/50	415.00	25.17	235.17	16.78	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1		SLU	0.00	1963830.00	0.00	0.00	2008400.00	3.22	1-2	179.13	1.023

Stato limite ultimo - Verifiche a taglio

Caso	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	0.00	1.00	20.11	0.00	2.50	616800.00	1271620.00	616800.00	---

Verifiche principali

Caso	Tipo
1	SLU N cost - min. sic.

SEZIONE.1 BIS

Sezione: Rettangolare - Dati geometrici della sezione

Base <m>	=	3.19
Altezza <m>	=	1.50

Caratteristiche delle sezioni e dei materiali utilizzati

Sez.	Tipo	B <cm>	H <cm>	Cf <cm>	Cls	Fck <daN/cmq>	Fctk <daN/cmq>	Fcd <daN/cmq>	Fctd <daN/cmq>	Tp	Fyk <daN/cmq>	Fyd <daN/cmq>

1	R	319.00	150.00	3.00	C40/50	415.00	25.17	235.17	16.78	B450C	4500.00	3913.04

Stato limite ultimo - Verifiche a flessione/pressoflessione

Caso	CC	TCC	N <daN>	My <daNm>	Mz <daNm>	Nu <daN>	MRdy <daNm>	MRdz <daNm>	Rott.	α <grad>	Sic.
1		SLV	0.00	296794.00	0.00	0.00	388399.00	12.35	1-2	179.74	1.309

Stato limite ultimo - Verifiche a taglio

Caso	Ty <daN>	Tz <daN>	bw <m>	Asw <cmq>	Vsdu <daN>	ctgθ	VRsd <daN>	VRcd <daN>	Vrdu <daN>	Sic.
1	0.00	0.00	3.19	20.11	0.00	2.50	262800.00	1728160.00	262800.00	---

Verifiche principali

Caso	Tipo
1	SLU N cost - min. sic.

Computo armature, cls e acciaio nelle sezioni

Sezione	ø10 <daN>	ø16 <daN>	ø20 <daN>	ø26 <daN>	ø30 <daN>	Peso <daN>	Vol. <mc>	ρ <daN/mc>
Sezione 10 (SEZIONE ATTACCO POST. DEL PALO POSTERIORE: 258X260) - Soll. man.	--	138.48	44.39	145.87	--	328.75	6.71	49.01
Sezione 2 (Sezione attacco testa pali ext concentr. 120x150) - Soll. man.	--	73.14	49.32	--	--	122.46	1.80	68.04
Sezione 3 (Sezione attacco pali int. radiale 258x150) - Soll. man.	--	102.18	--	--	233.05	335.23	3.87	86.62
Sezione 4 (Sezione attacco pali int. concentr. 120x150) - Soll. man.	--	73.14	29.59	--	55.49	158.22	1.80	87.90
Sezione 5 (Sezione attacco al nucleo radiale 114x260) - Soll. man.	--	106.60	--	83.36	177.56	367.52	2.96	123.99
Sezione 6 (Sezione attacco al nucleo concentrica 100x260) - Soll. man.	--	103.66	--	75.02	88.78	267.46	2.60	102.87
Sezione 7 (Sezione attacco al nucleo concentrica H=350 114x350) - Soll. man.	--	135.01	--	50.01	144.27	329.29	3.99	82.53
Sezione 8 (Sezione attacco al nucleo radiale H=350: 67x350) - Soll. man.	9.60	65.74	--	50.01	210.86	336.21	2.35	143.37
Sezione 9 (Sezione attacco al nucleo,concentrica H=350: 100x350) - Soll. man.	--	132.06	--	75.02	166.47	373.55	3.50	106.73
Sezione 1 (Sezione d'attacco pali ext radiale 319x150) - Soll. man.	--	115.02	24.66	83.36	--	223.04	4.79	46.61
Peso totale ferri	9.60	1045.03	147.97	562.65	1076.47	2841.73	34.36	82.70

Computo armature, cls e acciaio nei plinti/pali

Plinto/Palo	ø12 <daN>	ø20 <daN>	Peso <daN>	Vol. <mc>	ρ <daN/mc>
Palo 1	391.99	1584.50	1976.49	28.27	69.90
Palo 2	391.99	1584.50	1976.49	28.27	69.90
Palo 3	391.99	1584.50	1976.49	28.27	69.90
Palo 4	391.99	1584.50	1976.49	28.27	69.90
Palo 5	391.99	1584.50	1976.49	28.27	69.90
Palo 6	391.99	1584.50	1976.49	28.27	69.90
Palo 7	391.99	1584.50	1976.49	28.27	69.90
Palo 8	391.99	1584.50	1976.49	28.27	69.90
Palo 9	391.99	1584.50	1976.49	28.27	69.90
Palo 10	391.99	1584.50	1976.49	28.27	69.90
Palo 11	391.99	1584.50	1976.49	28.27	69.90
Palo 12	391.99	1584.50	1976.49	28.27	69.90
Palo 13	391.99	1584.50	1976.49	28.27	69.90
Palo 14	391.99	1584.50	1976.49	28.27	69.90
Palo 15	391.99	1584.50	1976.49	28.27	69.90
Palo 16	391.99	1584.50	1976.49	28.27	69.90
Palo 17	391.99	1584.50	1976.49	28.27	69.90
Palo 18	391.99	1584.50	1976.49	28.27	69.90
Palo 19	391.99	1584.50	1976.49	28.27	69.90
Palo 20	391.99	1584.50	1976.49	28.27	69.90
Palo 21	391.99	1584.50	1976.49	28.27	69.90
Palo 22	391.99	1584.50	1976.49	28.27	69.90
Palo 23	391.99	1584.50	1976.49	28.27	69.90
Palo 24	391.99	1584.50	1976.49	28.27	69.90
Palo 25	391.99	1584.50	1976.49	28.27	69.90
Palo 26	391.99	1584.50	1976.49	28.27	69.90
Palo 27	391.99	1584.50	1976.49	28.27	69.90
Palo 28	391.99	1584.50	1976.49	28.27	69.90
Palo 29	391.99	1584.50	1976.49	28.27	69.90
Palo 30	391.99	1584.50	1976.49	28.27	69.90
Palo 31	391.99	1584.50	1976.49	28.27	69.90
Palo 32	391.99	1584.50	1976.49	28.27	69.90
Palo 33	391.99	1584.50	1976.49	28.27	69.90
Peso totale ferri	12935.60	52288.60	65224.20	933.05	69.90

Computo armature, cls e acciaio nelle solette/platee

Elem.	ø12 <daN>	ø14 <daN>	ø16 <daN>	Peso <daN>	Vol. <mc>	ρ <daN/mc>
Armatura soletta a quota 0.00	807.65	1315.55	16705.90	18829.10	917.77	20.52

Criteri di analisi geotecnica e progetto delle fondazioni

Fondazioni profonde

Generali	
Generali	
Calcolo capacità portante per carichi verticali	Secondo formule statiche
Considera capacità portante	Entrambe
Condizioni di calcolo per terreni coesivi	Sia drenate che non drenate
Calcolo della profondità critica	No
Effettua calcolo elasto-plastico per cedimenti	Sì
Effettua calcolo elasto-plastico per spostamenti orizzontali	Sì
Rapporto di elasticità trazione/compressione pari a	1.00
Fattori di correlazione	1.70
Considera fattori di correlazione anche per carichi orizzontali	No
Considera peso del palo	No
Divisore del raggio del palo per lunghezza conci	1.00
Max numero conci palo	50.00
Attrito laterale limite da prove in sito	
Correlato con prove CPT	No
Correlato con prove SPT	No
Fattore di riduzione attrito laterale per pali trivellati	No
Pressione limite alla base da prove in sito	
Correlata con prove CPT	No
Correlata con prove SPT	No
Fattore di riduzione pressione limite alla base per pali trivellati	No
Spostamenti orizzontali	
Spostamenti orizzontali	Risposta elastica in funzione della stratigrafia

Specifici	1
Attrito laterale limite	
Calcolo dell'attrito laterale limite	Sì
-Condizioni non drenate	
-Calcolo di α	
-Pari a	
-A.G.I. (1984)	x
-A.P.I. (1984)	
-Viggiani (1999)	
-Olson e Dennis (1982)	
-Stas e Kulhavy (1984)	
-Skempton (1986)	
-Reese e O'Neill (1989)	
-Metodo di Bustamente e Doix (1985) per micropali	No
-Iniezioni ripetute	x
-Unica iniezione	
-Condizioni drenate	
-Calcolo di β	
-Pari a	0.25
-Reese e O'Neill (1989)	
-Calcolato	
-Calcolo di k	
-Pari a	
-Dal rapporto con k_0 pari a	0.00
-Fleming (1985)	
-Calcolo di δ	
-Pari a <grad>	
-Dal rapporto con ϕ' pari a	0.00
-Calcolo di a' dal rapporto con c'	1.00
Calcolo dell'attrito laterale limite per trazione	
-Considera i risultati del calcolo per l'attrito laterale limite percompressione con un fattore di riduzione pari a	0.66
-Sowa (1970)	No
-Bowles (1991)	No
Considera l'effetto dell'attrito negativo	No
-Coefficiente di Lambe	

Pressione limite alla base	
Calcolo della pressione limite alla base	Si
-Terzaghi (1943)	x
-Meyerhof (1963)	
-Hansen (1970)	
-Vesic (1975)	
-Brinch Hansen (1970)	
-Brinch Hansen (1970)	
-Stagg e Zienkiewicz (1968)	
-Relazione generale, coefficienti di capacità portante	
-Fondazioni nastriformi	
N_q	
N_γ	
-Fondazioni rettangolari	
N_γ	
-Fattore di riduzione per carichi eccentrici	No
Cedimenti	
Proprietà elastiche terreno	
-Calcolo della profondità del substrato	
-Coefficiente di influenza	4.00
-Peso di <dati/mq>	
Proprietà elastiche della fondazione	
Calcolo della rigidezza del pozzetto	Si
-Peso di <dati/mq>	
Spostamenti orizzontali	
Proprietà elastiche	
-Vesic (1961)	
-Broms (1964)	
Gibbs (1968)	
Chen (1988)	
-Peso di <dati/mq>	
-Fattore di riduzione	
-Coefficiente effetto tridimensionale	2.00
Resistenza limite	
Calcolo dei parametri plastici	Si
Coefficiente effetto tridimensionale per calcolo	3.00
-Coefficiente effetto tridimensionale per cedimenti	2.00
-Peso di <dati/mq>	

Geotecnica

Elenco unità geotecniche

1 ARGILLE BRECCIATE DI COLORE NOCCIOLA:
Criterio di rottura: Coulomb

Pesi:
- Peso specifico terreno non saturo: γ = 1947.00 daN/mc
  Peso specifico terreno saturo: γ_{sat} = 2050.00 daN/mc

Parametri plastici:
  Angolo di attrito efficace: ϕ' = 24.18 gradi
- Coesione efficace: c' = 2100.00 dan/mq
- Coesione non drenata: c_u = 8710.00 daN/mc

Condizioni drenate:
  Angolo di attrito per K_0: K_0 = 1.00
- Coeff. di spinta a riposo: K_0 = 0.06

Parametri elastici:
- Modulo di Young normale: E = 1175000.00 daN/mq
  Modulo elastico tangenziale: G = 470000.00 daN/mq
- Esponente del parametro tensionale: n_j = 0.00
- Coeff. di Poisson: ν = 0.35
- Modulo edometrico: E_{ed} = 5000000.00 daN/mc
- Modulo elastico non drenato: E_u = 346200.00 dan/mq

2 ARGILLE BRECCIATE GRIGIO-AZZURRE:
Criterio di rottura: Coulomb

Pesi:
- Peso specifico terreno non saturo: γ = 1947.00 daN/mc
  Peso specifico terreno saturo: γ_{sat} = 2050.00 daN/mc

Parametri plastici:
- Angolo di attrito efficace: ϕ' = 22.03 gradi
- Coesione efficace: c' = 2470.00 daN/mq
  Coesione non drenata: c_u = 11030.00 daN/mc

Condizioni drenate:

- Grado di sovraconsolidazione: OCR = 1.00
- Coeff. di spinta a riposo: κ_0 = 0.66

Parametri elastici:
- Modulo elastico normale: E = 533200.00 daN/mq
- Modulo elastico tangenziale: G = 359900.00 daN/mq
- Esponente del parametro tensionale: k_j = 0.00
- Coeff. di Poisson: v = 0.35
- Modulo edometrico: E_{ed} = 855800.00 daN/mq
- Modulo elastico non drenato: E_u = 592400.00 daN/mq

Elenco colonne stratigrafiche

Colonna stratigrafica numero 1
Posizione: X=0.00 <m> Y=0.00 <m> Z=1.00 <m>
Falda non presente

Simbologia
ϕ' = Angolo di attrito efficace
γ = Peso specifico del terreno naturale
γ_{sat} = Peso specifico del terreno saturo
κ_0 = Coeff. di spinta a riposo
Class. = Classificazione
Coes. = Coesivo
Crit. = Criterio di progetto
D_r = Densità relativa
I_p = Indice di plasticità
OCR = Grado di sovraconsolidazione
St. = Strato
Unità geotecnica = Unità geotecnica
c_u = Coesione non drenata
c' = Coesione efficace
z = Profondità della superficie superiore dello strato

St.	z <m>	Unità geotecnica	Class.	γ <daN/mc>	γ_{sat} <daN/mc>	D_r	I_p	ϕ' <grad>	c' <daN/mq>	c_u <daN/mq>	OCR	κ_0	Crit.
1	0.00	1 ARGILLE BRECCIATE DI COLORE NOCCIOLA	Coes.	1947.00	2030.00			19.18	3190.00	6110.00	1.00	0.66	1
2	4.50	2 ARGILLE BRECCIATE GRIGIO-AZZURRE	Coes.	1997.00	2130.00			22.23	4710.00	13090.00	1.00	0.66	1

Simbologia
v = Coeff. di Poisson
Crit. = Criterio di progetto
E = Modulo elastico normale
E_{ed} = Modulo edometrico
E_u = Modulo elastico non drenato
G = Modulo elastico tangenziale
St. = Strato
k_j = Esponente del parametro tensionale
z = Profondità della superficie superiore dello strato

St.	z <m>	E <daN/mq>	G <daN/mq>	k_j	v	E_{ed} <daN/mq>	E_u <daN/mq>	Crit.
1	0.00	311500.00	210300.00	0.00	0.35	500000.00	346200.00	1
2	4.50	533200.00	359900.00	0.00	0.35	855800.00	592400.00	1

Strati Commenti Pressioni litostatiche

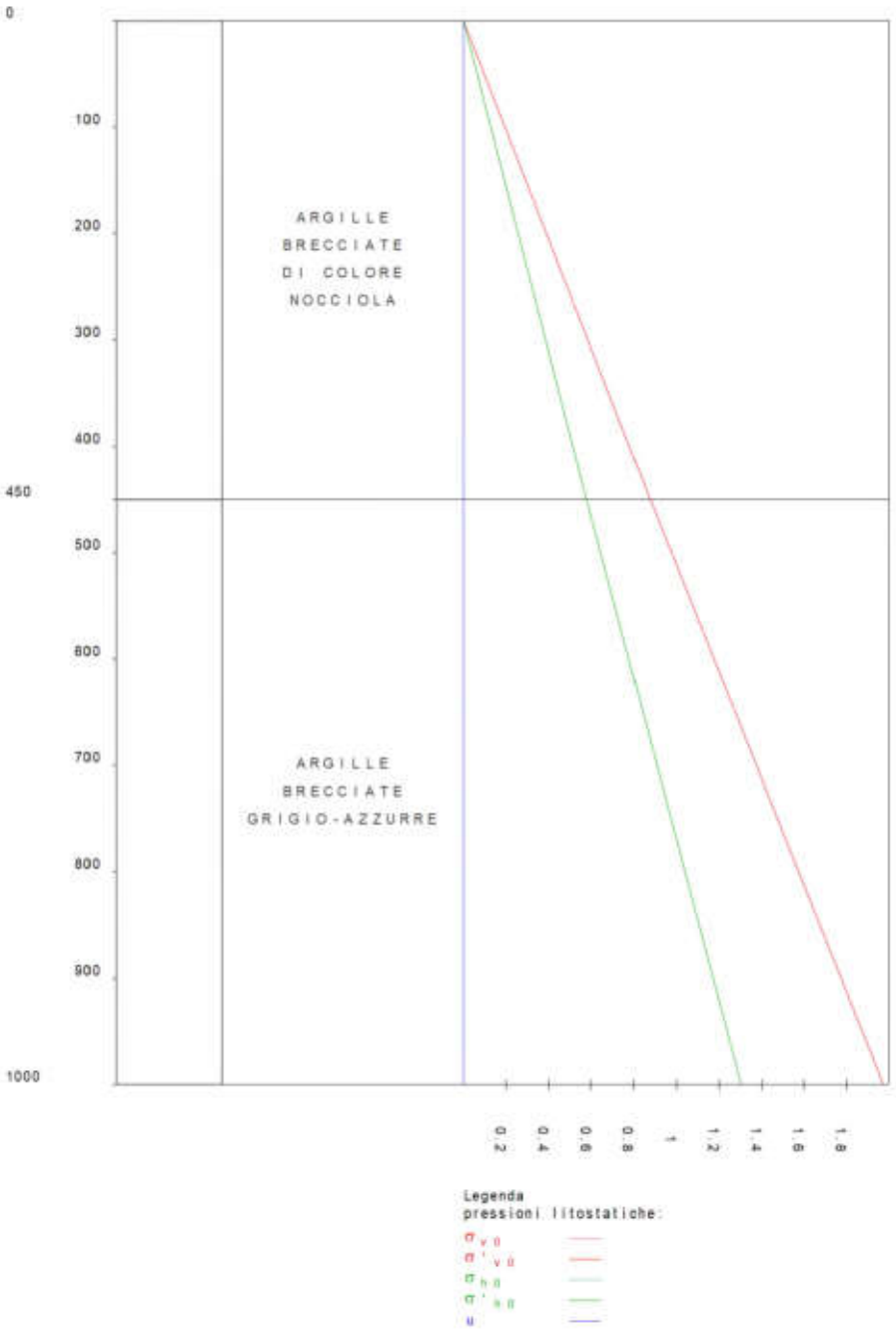


Figura numero 1: Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA

Le verifiche degli elementi di fondazione sono state effettuate utilizzando l'approccio 2.

Coefficienti parziali per le azioni, per verifiche in condizioni statiche:
Permanenti strutturali, sicurezza a favore γ_A = 1.00;
Permanenti strutturali, sicurezza a sfavore γ_A = 1.30;
Permanenti non strutturali, sicurezza a favore γ_A = 0.00;
Permanenti non strutturali, sicurezza a sfavore γ_A = 1.50;
Variabili, sicurezza a favore γ_A = 0.00;
Variabili, sicurezza a sfavore γ_A = 1.50.

I coefficienti parziali per le azioni sono posti pari all'unità per le verifiche in condizioni sismiche.

Tali coefficienti sono comunque desumibili dalla tabella delle combinazioni delle CCE (Parametri di calcolo).

Coefficienti parziali per i parametri geotecnici:
Tangente dell'angolo di attrito γ_M = 1.00;
Coesione efficace γ_M = 1.00;
Coesione non drenata γ_M = 1.00;

Coefficienti parziali per la resistenza delle fondazioni superficiali:
Capacità portante γ_R = 2.30;
Scorrimento γ_R = 1.10;
Coefficienti parziali per la resistenza delle fondazioni profonde:

Per pali infissi:
Resistenza alla base $\gamma_{R,b}$ = 1.15;
Resistenza laterale in compressione $\gamma_{R,s}$ = 1.15;
Resistenza laterale in trazione $\gamma_{R,t}$ = 1.25;
Per pali trivellati:
Resistenza alla base $\gamma_{R,b}$ = 1.35;
Resistenza laterale in compressione $\gamma_{R,s}$ = 1.15;
Resistenza laterale in trazione $\gamma_{R,t}$ = 1.25;
Per pali ad elica continua:
Resistenza alla base $\gamma_{R,b}$ = 1.30;
Resistenza laterale in compressione $\gamma_{R,s}$ = 1.15;
Resistenza laterale in trazione $\gamma_{R,t}$ = 1.25;
Fattore di correlazione per la determinazione della resistenza caratteristica desumibile dai criteri di progetto.

Fondazioni profonde

Simbologia
σ_h = Pressione limite per carichi orizzontali
τ_s = Attrito laterale limite per compressione
CC = Numero della combinazione delle condizioni di carico elementari
Caso = Caso di verifica
Ced = Cedimento calcolato
D = Profondità della testa del palo
Dp = Diametro pali
Lp = Lunghezza pali
M = Momento flettente
N = Sforzo normale
QP_{lim} = Resistenza di progetto alla base del palo
QS_{lim} = Resistenza laterale di progetto per compressione
Sic.O = Sicurezza a rottura orizzontale
Sic.V = Sicurezza a rottura verticale
Sps = Spostamento
T = Taglio in testa
Wp = Peso del palo
Zp = Profondità del tratto di integrazione
k_h = Risposta elastica per carichi orizzontali
k_p = Risposta elastica alla base del palo
k_s = Risposta elastica laterale per compressione
q_p = Pressione limite alla base del palo

Verifiche capacità portante e cedimenti

Palo n. 1

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-128741.00	0.91	6.53	7086.36	65401.70	0.74	>1
3	2	-95363.70	0.67	--	5249.16	48445.70	0.55	--
5	3	-95363.70	0.67	--	5249.16	48445.70	0.55	--
7	4	-95363.70	0.67	--	5249.16	48445.70	0.55	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-128741.00	0.91	2.41	7086.36	65401.70	0.74	>1
4	2	-95363.70	0.67	--	5249.16	48445.70	0.55	--
6	3	-95363.70	0.67	--	5249.16	48445.70	0.55	--
8	4	-95363.70	0.67	--	5249.16	48445.70	0.55	--

Palo n. 2

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-204703.00	1.45	4.11	6687.11	60353.10	0.69	>1
3	2	-151632.00	1.07	--	4953.41	44706.00	0.51	--
5	3	-151632.00	1.07	--	4953.41	44706.00	0.51	--
7	4	-151632.00	1.07	--	4953.41	44706.00	0.51	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-204703.00	1.45	1.52	6687.11	60353.10	0.69	>1
4	2	-151632.00	1.07	--	4953.41	44706.00	0.51	--
6	3	-151632.00	1.07	--	4953.41	44706.00	0.51	--
8	4	-151632.00	1.07	--	4953.41	44706.00	0.51	--

Palo n. 3

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89

26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_a <daN/cmq>	k_a <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-274379.00	1.94	3.07	6293.40	44922.90	0.57	>1
3	2	-203244.00	1.44	--	4661.78	33276.20	0.42	--
5	3	-203244.00	1.44	--	4661.78	33276.20	0.42	--
7	4	-203244.00	1.44	--	4661.78	33276.20	0.42	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-274379.00	1.94	1.13	6293.40	44922.90	0.57	>1
4	2	-203244.00	1.44	--	4661.78	33276.20	0.42	--
6	3	-203244.00	1.44	--	4661.78	33276.20	0.42	--
8	4	-203244.00	1.44	--	4661.78	33276.20	0.42	--

Palo n. 4

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_a <daN/cmq>	k_a <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_a <daN/cmq>	k_a <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-315710.00	2.23	2.66	6046.37	23929.60	0.42	>1
3	2	-233859.00	1.65	--	4478.79	17725.60	0.31	--
5	3	-233859.00	1.65	--	4478.79	17725.60	0.31	--
7	4	-233859.00	1.65	--	4478.79	17725.60	0.31	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-315710.00	2.23	<1	6046.37	23929.60	0.42	>1
4	2	-233859.00	1.65	--	4478.79	17725.60	0.31	--
6	3	-233859.00	1.65	--	4478.79	17725.60	0.31	--
8	4	-233859.00	1.65	--	4478.79	17725.60	0.31	--

Palo n. 5

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-315619.00	2.23	2.67	6042.40	23993.40	0.42	>1
3	2	-233792.00	1.65	--	4475.85	17772.90	0.31	--
5	3	-233792.00	1.65	--	4475.85	17772.90	0.31	--
7	4	-233792.00	1.65	--	4475.85	17772.90	0.31	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-315619.00	2.23	<1	6042.40	23993.40	0.42	>1
4	2	-233792.00	1.65	--	4475.85	17772.90	0.31	--
6	3	-233792.00	1.65	--	4475.85	17772.90	0.31	--
8	4	-233792.00	1.65	--	4475.85	17772.90	0.31	--

Palo n. 6

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-274241.00	1.94	3.07	6295.05	44648.90	0.57	>1
3	2	-203142.00	1.44	--	4663.00	33073.30	0.42	--
5	3	-203142.00	1.44	--	4663.00	33073.30	0.42	--
7	4	-203142.00	1.44	--	4663.00	33073.30	0.42	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-274241.00	1.94	1.13	6295.05	44648.90	0.57	>1
4	2	-203142.00	1.44	--	4663.00	33073.30	0.42	--
6	3	-203142.00	1.44	--	4663.00	33073.30	0.42	--
8	4	-203142.00	1.44	--	4663.00	33073.30	0.42	--

Palo n. 7

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-204511.00	1.45	4.11	6688.75	60395.30	0.69	>1
3	2	-151490.00	1.07	--	4954.63	44737.20	0.51	--
5	3	-151490.00	1.07	--	4954.63	44737.20	0.51	--
7	4	-151490.00	1.07	--	4954.63	44737.20	0.51	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-204511.00	1.45	1.52	6688.75	60395.30	0.69	>1
4	2	-151490.00	1.07	--	4954.63	44737.20	0.51	--
6	3	-151490.00	1.07	--	4954.63	44737.20	0.51	--

8	4	-151490.00	1.07	--	4954.63	44737.20	0.51	--

Palo n. 8

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-128535.00	0.91	6.55	7082.39	65411.00	0.74	>1
3	2	-95211.30	0.67	--	5246.21	48452.60	0.55	--
5	3	-95211.30	0.67	--	5246.21	48452.60	0.55	--
7	4	-95211.30	0.67	--	5246.21	48452.60	0.55	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-128535.00	0.91	2.41	7082.39	65411.00	0.74	>1
4	2	-95211.30	0.67	--	5246.21	48452.60	0.55	--
6	3	-95211.30	0.67	--	5246.21	48452.60	0.55	--
8	4	-95211.30	0.67	--	5246.21	48452.60	0.55	--

Palo n. 9

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89

26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-70710.80	0.50	11.90	7364.87	62472.80	0.73	>1
3	2	-52378.40	0.37	--	5455.46	46276.10	0.54	--
5	3	-52378.40	0.37	--	5455.46	46276.10	0.54	--
7	4	-52378.40	0.37	--	5455.46	46276.10	0.54	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-70710.80	0.50	4.39	7364.87	62472.80	0.73	>1
4	2	-52378.40	0.37	--	5455.46	46276.10	0.54	--
6	3	-52378.40	0.37	--	5455.46	46276.10	0.54	--
8	4	-52378.40	0.37	--	5455.46	46276.10	0.54	--

Palo n. 10

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-49182.60	0.35	17.11	7463.04	59871.30	0.72	>1
3	2	-36431.60	0.26	--	5528.18	44349.10	0.53	--
5	3	-36431.60	0.26	--	5528.18	44349.10	0.53	--
7	4	-36431.60	0.26	--	5528.18	44349.10	0.53	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-49182.60	0.35	6.31	7463.04	59871.30	0.72	>1
4	2	-36431.60	0.26	--	5528.18	44349.10	0.53	--
6	3	-36431.60	0.26	--	5528.18	44349.10	0.53	--
8	4	-36431.60	0.26	--	5528.18	44349.10	0.53	--

Palo n. 11

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00

Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-70857.90	0.50	11.87	7366.75	62507.80	0.73	>1
3	2	-52487.40	0.37	--	5456.85	46302.10	0.54	--
5	3	-52487.40	0.37	--	5456.85	46302.10	0.54	--
7	4	-52487.40	0.37	--	5456.85	46302.10	0.54	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-70857.90	0.50	4.38	7366.75	62507.80	0.73	>1
4	2	-52487.40	0.37	--	5456.85	46302.10	0.54	--
6	3	-52487.40	0.37	--	5456.85	46302.10	0.54	--
8	4	-52487.40	0.37	--	5456.85	46302.10	0.54	--

Palo n. 12

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-9426.53	0.07	89.25	7685.04	55211.00	0.70	>1
3	2	-6982.62	0.05	--	5692.63	40897.00	0.52	--
5	3	-6982.62	0.05	--	5692.63	40897.00	0.52	--
7	4	-6982.62	0.05	--	5692.63	40897.00	0.52	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-9426.53	0.07	32.93	7685.04	55211.00	0.70	>1
4	2	-6982.62	0.05	--	5692.63	40897.00	0.52	--
6	3	-6982.62	0.05	--	5692.63	40897.00	0.52	--
8	4	-6982.62	0.05	--	5692.63	40897.00	0.52	--

Palo n. 13

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-9469.03	0.07	88.85	7683.96	55220.60	0.70	>1
3	2	-7014.10	0.05	--	5691.82	40904.10	0.52	--
5	3	-7014.10	0.05	--	5691.82	40904.10	0.52	--
7	4	-7014.10	0.05	--	5691.82	40904.10	0.52	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-9469.03	0.07	32.78	7683.96	55220.60	0.70	>1
4	2	-7014.10	0.05	--	5691.82	40904.10	0.52	--
6	3	-7014.10	0.05	--	5691.82	40904.10	0.52	--
8	4	-7014.10	0.05	--	5691.82	40904.10	0.52	--

Palo n. 14

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52

4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-22330.90	0.16	37.67	7621.21	56900.50	0.71	>1
3	2	-16541.40	0.12	--	5645.34	42148.50	0.52	--
5	3	-16541.40	0.12	--	5645.34	42148.50	0.52	--
7	4	-16541.40	0.12	--	5645.34	42148.50	0.52	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-22330.90	0.16	13.90	7621.21	56900.50	0.71	>1
4	2	-16541.40	0.12	--	5645.34	42148.50	0.52	--
6	3	-16541.40	0.12	--	5645.34	42148.50	0.52	--
8	4	-16541.40	0.12	--	5645.34	42148.50	0.52	--

Palo n. 15

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-46827.10	0.33	17.97	7490.69	59399.20	0.72	>1
3	2	-34686.80	0.25	--	5548.66	43999.40	0.53	--
5	3	-34686.80	0.25	--	5548.66	43999.40	0.53	--

7	4	-34686.80	0.25	--	5548.66	43999.40	0.53	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-46827.10	0.33	6.63	7490.69	59399.20	0.72	>1
4	2	-34686.80	0.25	--	5548.66	43999.40	0.53	--
6	3	-34686.80	0.25	--	5548.66	43999.40	0.53	--
8	4	-34686.80	0.25	--	5548.66	43999.40	0.53	--

Palo n. 16

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-81184.60	0.57	10.36	7310.74	61392.50	0.72	>1
3	2	-60136.70	0.43	--	5415.36	45475.90	0.54	--
5	3	-60136.70	0.43	--	5415.36	45475.90	0.54	--
7	4	-60136.70	0.43	--	5415.36	45475.90	0.54	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-81184.60	0.57	3.82	7310.74	61392.50	0.72	>1
4	2	-60136.70	0.43	--	5415.36	45475.90	0.54	--
6	3	-60136.70	0.43	--	5415.36	45475.90	0.54	--
8	4	-60136.70	0.43	--	5415.36	45475.90	0.54	--

Palo n. 17

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>

k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_a <daN/cmq>	k_a <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-122467.00	0.87	6.87	7078.60	61763.00	0.72	>1
3	2	-90716.20	0.64	--	5243.41	45750.40	0.53	--
5	3	-90716.20	0.64	--	5243.41	45750.40	0.53	--
7	4	-90716.20	0.64	--	5243.41	45750.40	0.53	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-122467.00	0.87	2.53	7078.60	61763.00	0.72	>1
4	2	-90716.20	0.64	--	5243.41	45750.40	0.53	--
6	3	-90716.20	0.64	--	5243.41	45750.40	0.53	--
8	4	-90716.20	0.64	--	5243.41	45750.40	0.53	--

Palo n. 18

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_a <daN/cmq>	k_a <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_a <daN/cmq>	k_a <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-166477.00	1.18	5.05	6825.85	59718.20	0.69	>1
3	2	-123316.00	0.87	--	5056.18	44235.70	0.51	--
5	3	-123316.00	0.87	--	5056.18	44235.70	0.51	--
7	4	-123316.00	0.87	--	5056.18	44235.70	0.51	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-166477.00	1.18	1.86	6825.85	59718.20	0.69	>1

4	2	-123316.00	0.87	--	5056.18	44235.70	0.51	--
6	3	-123316.00	0.87	--	5056.18	44235.70	0.51	--
8	4	-123316.00	0.87	--	5056.18	44235.70	0.51	--

Palo n. 19

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-212368.00	1.50	3.96	6542.33	54441.50	0.64	>1
3	2	-157310.00	1.11	--	4846.17	40327.00	0.48	--
5	3	-157310.00	1.11	--	4846.17	40327.00	0.48	--
7	4	-157310.00	1.11	--	4846.17	40327.00	0.48	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-212368.00	1.50	1.46	6542.33	54441.50	0.64	>1
4	2	-157310.00	1.11	--	4846.17	40327.00	0.48	--
6	3	-157310.00	1.11	--	4846.17	40327.00	0.48	--
8	4	-157310.00	1.11	--	4846.17	40327.00	0.48	--

Palo n. 20

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>

1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-253743.00	1.79	3.32	6276.62	46241.50	0.58	>1
3	2	-187958.00	1.33	--	4649.35	34252.90	0.43	--
5	3	-187958.00	1.33	--	4649.35	34252.90	0.43	--
7	4	-187958.00	1.33	--	4649.35	34252.90	0.43	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-253743.00	1.79	1.22	6276.62	46241.50	0.58	>1
4	2	-187958.00	1.33	--	4649.35	34252.90	0.43	--
6	3	-187958.00	1.33	--	4649.35	34252.90	0.43	--
8	4	-187958.00	1.33	--	4649.35	34252.90	0.43	--

Palo n. 21

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-287981.00	2.04	2.92	6041.15	35402.70	0.50	>1
3	2	-213319.00	1.51	--	4474.93	26224.20	0.37	--
5	3	-213319.00	1.51	--	4474.93	26224.20	0.37	--
7	4	-213319.00	1.51	--	4474.93	26224.20	0.37	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-287981.00	2.04	1.08	6041.15	35402.70	0.50	>1
4	2	-213319.00	1.51	--	4474.93	26224.20	0.37	--
6	3	-213319.00	1.51	--	4474.93	26224.20	0.37	--
8	4	-213319.00	1.51	--	4474.93	26224.20	0.37	--

Palo n. 22

Tipo palo=Trivellato

Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-312560.00	2.21	2.69	5870.52	22391.20	0.40	>1
3	2	-231526.00	1.64	--	4348.53	16586.10	0.30	--
5	3	-231526.00	1.64	--	4348.53	16586.10	0.30	--
7	4	-231526.00	1.64	--	4348.53	16586.10	0.30	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-312560.00	2.21	<1	5870.52	22391.20	0.40	>1
4	2	-231526.00	1.64	--	4348.53	16586.10	0.30	--
6	3	-231526.00	1.64	--	4348.53	16586.10	0.30	--
8	4	-231526.00	1.64	--	4348.53	16586.10	0.30	--

Palo n. 23

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>

k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-325273.00	2.30	2.59	5776.64	8448.83	0.30	>1
3	2	-240943.00	1.70	--	4278.99	6258.39	0.22	--
5	3	-240943.00	1.70	--	4278.99	6258.39	0.22	--
7	4	-240943.00	1.70	--	4278.99	6258.39	0.22	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-325273.00	2.30	<1	5776.64	8448.83	0.30	>1
4	2	-240943.00	1.70	--	4278.99	6258.39	0.22	--
6	3	-240943.00	1.70	--	4278.99	6258.39	0.22	--
8	4	-240943.00	1.70	--	4278.99	6258.39	0.22	--

Palo n. 24

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-325212.00	2.30	2.59	5777.46	8572.34	0.30	>1
3	2	-240898.00	1.70	--	4279.60	6349.88	0.23	--
5	3	-240898.00	1.70	--	4279.60	6349.88	0.23	--
7	4	-240898.00	1.70	--	4279.60	6349.88	0.23	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-325212.00	2.30	<1	5777.46	8572.34	0.30	>1
4	2	-240898.00	1.70	--	4279.60	6349.88	0.23	--
6	3	-240898.00	1.70	--	4279.60	6349.88	0.23	--
8	4	-240898.00	1.70	--	4279.60	6349.88	0.23	--

Palo n. 25

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-312389.00	2.21	2.69	5871.78	22486.70	0.40	>1
3	2	-231400.00	1.64	--	4349.47	16656.80	0.30	--
5	3	-231400.00	1.64	--	4349.47	16656.80	0.30	--
7	4	-231400.00	1.64	--	4349.47	16656.80	0.30	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-312389.00	2.21	<1	5871.78	22486.70	0.40	>1
4	2	-231400.00	1.64	--	4349.47	16656.80	0.30	--
6	3	-231400.00	1.64	--	4349.47	16656.80	0.30	--
8	4	-231400.00	1.64	--	4349.47	16656.80	0.30	--

Palo n. 26

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O

1	1	-287771.00	2.03	2.92	6043.66	35407.20	0.50	>1
3	2	-213163.00	1.51	--	4476.78	26227.60	0.37	--
5	3	-213163.00	1.51	--	4476.78	26227.60	0.37	--
7	4	-213163.00	1.51	--	4476.78	26227.60	0.37	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-287771.00	2.03	1.08	6043.66	35407.20	0.50	>1
4	2	-213163.00	1.51	--	4476.78	26227.60	0.37	--
6	3	-213163.00	1.51	--	4476.78	26227.60	0.37	--
8	4	-213163.00	1.51	--	4476.78	26227.60	0.37	--

Palo n. 27

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-253546.00	1.79	3.32	6278.75	46247.70	0.58	>1
3	2	-187812.00	1.33	--	4650.92	34257.60	0.43	--
5	3	-187812.00	1.33	--	4650.92	34257.60	0.43	--
7	4	-187812.00	1.33	--	4650.92	34257.60	0.43	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-253546.00	1.79	1.22	6278.75	46247.70	0.58	>1
4	2	-187812.00	1.33	--	4650.92	34257.60	0.43	--
6	3	-187812.00	1.33	--	4650.92	34257.60	0.43	--
8	4	-187812.00	1.33	--	4650.92	34257.60	0.43	--

Palo n. 28

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-212189.00	1.50	3.96	6542.77	54473.00	0.65	>1
3	2	-157177.00	1.11	--	4846.50	40350.40	0.48	--
5	3	-157177.00	1.11	--	4846.50	40350.40	0.48	--
7	4	-157177.00	1.11	--	4846.50	40350.40	0.48	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-212189.00	1.50	1.46	6542.77	54473.00	0.65	>1
4	2	-157177.00	1.11	--	4846.50	40350.40	0.48	--
6	3	-157177.00	1.11	--	4846.50	40350.40	0.48	--
8	4	-157177.00	1.11	--	4846.50	40350.40	0.48	--

Palo n. 29

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-166267.00	1.18	5.06	6826.00	59745.40	0.69	>1
3	2	-123161.00	0.87	--	5056.29	44255.90	0.51	--
5	3	-123161.00	0.87	--	5056.29	44255.90	0.51	--
7	4	-123161.00	0.87	--	5056.29	44255.90	0.51	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-166267.00	1.18	1.87	6826.00	59745.40	0.69	>1
4	2	-123161.00	0.87	--	5056.29	44255.90	0.51	--
6	3	-123161.00	0.87	--	5056.29	44255.90	0.51	--
8	4	-123161.00	0.87	--	5056.29	44255.90	0.51	--

Palo n. 30

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_a <daN/cmq>	k_a <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_a <daN/cmq>	k_a <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-122242.00	0.86	6.88	7077.05	61854.20	0.72	>1
3	2	-90549.90	0.64	--	5242.26	45818.00	0.53	--
5	3	-90549.90	0.64	--	5242.26	45818.00	0.53	--
7	4	-90549.90	0.64	--	5242.26	45818.00	0.53	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-122242.00	0.86	2.54	7077.05	61854.20	0.72	>1
4	2	-90549.90	0.64	--	5242.26	45818.00	0.53	--
6	3	-90549.90	0.64	--	5242.26	45818.00	0.53	--
8	4	-90549.90	0.64	--	5242.26	45818.00	0.53	--

Palo n. 31

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_a <daN/cmq>	k_a <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_a <daN/cmq>	k_a <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-80635.20	0.57	10.43	7309.60	61410.20	0.72	>1
3	2	-59729.80	0.42	--	5414.52	45489.10	0.54	--
5	3	-59729.80	0.42	--	5414.52	45489.10	0.54	--
7	4	-59729.80	0.42	--	5414.52	45489.10	0.54	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-80635.20	0.57	3.85	7309.60	61410.20	0.72	>1
4	2	-59729.80	0.42	--	5414.52	45489.10	0.54	--
6	3	-59729.80	0.42	--	5414.52	45489.10	0.54	--
8	4	-59729.80	0.42	--	5414.52	45489.10	0.54	--

Palo n. 32

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_a <daN/cmq>	k_a <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_a <daN/cmq>	k_a <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-46634.90	0.33	18.04	7490.34	59376.80	0.72	>1
3	2	-34544.40	0.24	--	5548.40	43982.80	0.53	--
5	3	-34544.40	0.24	--	5548.40	43982.80	0.53	--
7	4	-34544.40	0.24	--	5548.40	43982.80	0.53	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-46634.90	0.33	6.66	7490.34	59376.80	0.72	>1
4	2	-34544.40	0.24	--	5548.40	43982.80	0.53	--
6	3	-34544.40	0.24	--	5548.40	43982.80	0.53	--
8	4	-34544.40	0.24	--	5548.40	43982.80	0.53	--

Palo n. 33

Tipo palo=Trivellato
Rotazione testa libera
Coefficiente di efficienza=1.00
Dp=1.200000 <m> Lp=25.000000 <m> Wp=70685.80 <daN> D=1.00 <m>
Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA
Verifiche in condizioni drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.75	0.52
4.50	0.69	0.15	11.44	0.89
26.00	1.76	0.15	40.00	0.89

QS_{lim}=1054060.00 <daN>
q_p=61.31 <daN/cmq>
QP_{lim}=693364.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni non drenate

Zp <m>	τ_s <daN/cmq>	k_s <daN/cmc>	σ_h <daN/cmq>	k_h <daN/cmc>
1.00	0.37	0.09	4.89	0.52
4.50	0.52	0.15	10.47	0.89
26.00	0.52	0.15	10.47	0.89

QS_{lim}=472754.00 <daN>
q_p=13.92 <daN/cmq>
QP_{lim}=157422.00 <daN>
k_p=1.17 <daN/cmc>

Verifiche in condizioni drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
1	1	-22207.30	0.16	37.88	7618.69	56881.30	0.71	>1
3	2	-16449.90	0.12	--	5643.47	42134.30	0.52	--
5	3	-16449.90	0.12	--	5643.47	42134.30	0.52	--
7	4	-16449.90	0.12	--	5643.47	42134.30	0.52	--

Verifiche in condizioni non drenate

Caso	CC	N <daN>	Ced <cm>	Sic.V	T <daN>	M <daNm>	Sps <cm>	Sic.O
2	1	-22207.30	0.16	13.98	7618.69	56881.30	0.71	>1
4	2	-16449.90	0.12	--	5643.47	42134.30	0.52	--
6	3	-16449.90	0.12	--	5643.47	42134.30	0.52	--
8	4	-16449.90	0.12	--	5643.47	42134.30	0.52	--

Sintesi

Tipo di normativa: stati limite D.M. 18
Tipo di calcolo: statico

Dati generali della struttura
- Sito di costruzione: sconosciuto
- Edificio esistente: No
- Tipo di opera: Grande opera
- Vita nominale V_N: 100.00
- Classe d'uso: Classe III
- Coefficiente d'uso CU: 1.50
- Periodo di riferimento VR: 150.00

Condizioni di carico elementari

Simbologia
CCE = Numero della condizione di carico elementare
Comm. = Commento
Dir. = Direzione del vento
Jpx = Moltiplicatore del momento d'inerzia intorno all'asse X
Jpy = Moltiplicatore del momento d'inerzia intorno all'asse Y
Jpz = Moltiplicatore del momento d'inerzia intorno all'asse Z
Mx = Moltiplicatore della massa in dir. X
My = Moltiplicatore della massa in dir. Y
Mz = Moltiplicatore della massa in dir. Z
Sic. = Contributo alla sicurezza
S = a sfavore
Tipo = Tipologia di pressione vento
M = Massimizzata
E = Esterna
I = Interna

Tipo CCE = Tipo di CCE per calcolo agli stati limite
Var. = Tipo di variabilità
B = di base
s = Coeff. di riduzione (T.A. o S.L. D.M. 96)

CCE	Comm.	Tipo CCE	Sic.	Var.	s	Dir. <grad>	Tipo	Mx	My	Mz	Jpx	Jpy	Jpz
1		1	S	--	1.00	--	--	1.00	1.00	0.00	0.00	0.00	1.00

Materiali

Cemento armato
Elenco dei criteri di progetto e delle loro principali caratteristiche meccaniche utilizzate:
Sezioni generiche: 3 Solo normativa generica
Solette/Platee: 3

Calcestruzzo

Tipo di calcestruzzo: C40/50
Rck calcestruzzo (Rck calcestruzzo): 500.00 <daN/cmq>
Resistenza caratteristica cilindrica a compressione del calcestruzzo (Fck): 415.00 <daN/cmq>
Resistenza caratteristica a trazione del calcestruzzo (Fctk): 25.17 <daN/cmq>
α_{cc}: 0.85
γ_c: 1.50
Resistenza di calcolo a compressione del calcestruzzo (Fcd): 235.17 <daN/cmq>
Resistenza di calcolo a trazione del calcestruzzo (Fctd): 16.78 <daN/cmq>

Acciaio

Tipo di acciaio: B450C
Tensione caratteristica di snervamento dell'acciaio (Fyk): 4500.00 <daN/cmq>
γ_s: 1.15
Resistenza di calcolo dell'acciaio (Fyd): 3913.04 <daN/cmq>

Plinti/Pali: 3

Calcestruzzo

Tipo di calcestruzzo: C30/37
Rck calcestruzzo (Rck calcestruzzo): 370.00 <daN/cmq>
Resistenza caratteristica cilindrica a compressione del calcestruzzo (Fck): 307.10 <daN/cmq>
Resistenza caratteristica a trazione del calcestruzzo (Fctk): 20.59 <daN/cmq>
α_{cc}: 0.85
γ_c: 1.50
Resistenza di calcolo a compressione del calcestruzzo (Fcd): 174.02 <daN/cmq>
Resistenza di calcolo a trazione del calcestruzzo (Fctd): 13.73 <daN/cmq>

Acciaio

Tipo di acciaio: B450C
Tensione caratteristica di snervamento dell'acciaio (Fyk): 4500.00 <daN/cmq>
γ_s: 1.15
Resistenza di calcolo dell'acciaio (Fyd): 3913.04 <daN/cmq>

Prove in sito

Elenco colonne stratigrafiche

Simbologia
ϕ' = Angolo di attrito efficace
γ = Peso specifico del terreno naturale
γ_{sat} = Peso specifico del terreno saturo
Class. = Classificazione
Coes. = Coesivo
E = Modulo elastico normale
E_{ed} = Modulo edometrico
G = Modulo elastico tangenziale
Spess. = Spessore
St. = Strato
Unità geotecnica = Unità geotecnica
c_u = Coesione non drenata
c' = Coesione efficace
z = Profondità della superficie superiore dello strato

Colonna stratigrafica numero 1 COLONNA STRATIGRAFICA

St.	z <m>	Spess. <cm>	Unità geotecnica	Class.	γ <daN/mc>	γ_{sat} <daN/mc>	ϕ' <grad>	c' <daN/mq>	c_u <daN/mq>	E <daN/mq>	G <daN/mq>	E_{ed} <daN/mq>
1	0.00	4.50	1 ARGILLE BRECCIATE DI COLORE NOCCIOLA	Coes.	1947.00	2030.00	19.18	3190.00	6110.00	311500.00	210300.00	500000.00
2	4.50	--	2 ARGILLE BRECCIATE GRIGIO-AZZURRE	Coes.	1997.00	2130.00	22.23	4710.00	13090.00	533200.00	359900.00	855800.00

Le verifiche degli elementi di fondazione sono state effettuate utilizzando l'approccio 2 - Combinazione 1.
Coefficienti parziali per le azioni, per verifiche in condizioni statiche:
Permanenti strutturali, sicurezza a favore γ_A = 1.00;
Permanenti strutturali, sicurezza a sfavore γ_A = 1.30;
Permanenti non strutturali, sicurezza a favore γ_A = 0.00;

Permanenti non strutturali, sicurezza a sfavore γ_A = 1.50;
Variabili, sicurezza a favore γ_A = 0.00;
Variabili, sicurezza a sfavore γ_A = 1.50.

I coefficienti parziali per le azioni sono posti pari all'unità per le verifiche in condizioni sismiche.

Tali coefficienti sono comunque desumibili dalla tabella delle combinazioni delle CCE (Parametri di calcolo).

Coefficienti parziali per i parametri geotecnici:
Tangente dell'angolo di attrito γ_M = 1.00;
Coesione efficace γ_M = 1.00;
Coesione non drenata γ_M = 1.00;

Coefficienti parziali per la resistenza delle fondazioni superficiali:
Capacità portante γ_R = 2.30;
Scorrimento γ_R = 1.10;
Coefficienti parziali per la resistenza delle fondazioni profonde:
Per pali infissi:
Resistenza alla base γ_R,b = 1.15;
Resistenza laterale in compressione γ_R,s = 1.15;
Resistenza laterale in trazione γ_R,t = 1.25;
Per pali trivellati:
Resistenza alla base γ_R,b = 1.35;
Resistenza laterale in compressione γ_R,s = 1.15;
Resistenza laterale in trazione γ_R,t = 1.25;
Per pali ad elica continua:
Resistenza alla base γ_R,b = 1.30;
Resistenza laterale in compressione γ_R,s = 1.15;
Resistenza laterale in trazione γ_R,t = 1.25;
Fattore di correlazione per la determinazione della resistenza caratteristica desumibile dai criteri di progetto.

Minimo coefficiente di sicurezza

Simbologia
CC = Numero della combinazione delle condizioni di carico elementari
Elem. = Elemento
Sic. = Sicurezza
TCC = Tipo di combinazione di carico
SLU = Stato limite ultimo
SLE R = Stato limite d'esercizio, combinazione rara
SLE F = Stato limite d'esercizio, combinazione frequente
SLE Q = Stato limite d'esercizio, combinazione quasi permanente
TV = Tipo di verifica
PRFL = Flessione e pressoflessione
TAG = Taglio o altre rotture fragili
NOD = Nodi in c.a. e collegamenti in acciaio
STAB = Stabilità
CP = Capacità portante
RNP = Resistenza nel piano
RFP = Resistenza fuori piano
CIN = Cinematismi
CON = Connessioni

Tabella elementi e minimo coefficiente di sicurezza

Elem.	CC	TCC	TV	Sic.
Platea a quota 0	1	SLU	PRFL	0.030
Platea a quota 0	1	SLU	TAG	0.074
Plinto/Palo n. 12	2	SLE R	PRFL	2.112
Plinto/Palo n. 12	1	SLU	TAG	4.202
Sezione SEZIONE N.8		SLU	PRFL	1.015
Sezione SEZIONE N.10		SLV	TAG	>100.0

Minimo coefficiente di sicurezza:0.030