

1					
0	01/02/2010	EMISSIONE	Bottarelli	Rossetti	Chiussi
Rev.	Data	Descrizione	Prep.	Contr.	Appr.
NUMERO E DATA ORDINE: SAP 3000031569 DEL 3/11/2009					

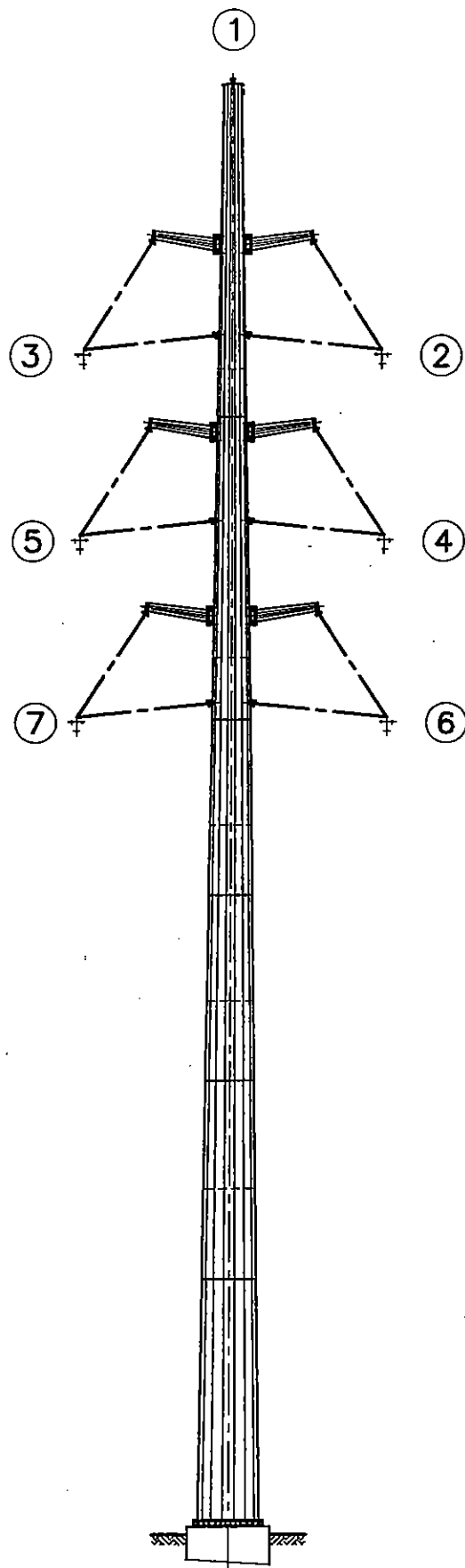


PALI ITALIA S.p.A. - Loc. Selciatella SNC
03012 ANAGNI FR (ITALY)
Ph. 39-0775-77841 Fax. 39-0775-769526
E-MAIL engineering @siderpali.it

REVISIONI						
	0	01/02/2010	EMISSIONE	SIDERPALI	P. BERARDI SRI - SVT-LIN	A. POSATI SRI-SVT-LIN
	N.	DATA	DESCRIZIONE	ELABORATO	VERIFICATO	APPROVATO
	TIPOLOGIA DELL'ELABORATO		CODIFICA DELL'ELABORATO			
RELAZIONE DI CALCOLO		P045DN5400				
PROGETTO		TITOLO				
TE-AR-05-003		LINEE 380 kV UNIFICATE TUBOLARI MONOSTELO DOPPIA TERNA – SOSTEGNO ND 30 RELAZIONE DI CALCOLO PALO Zona A e B				
RICAVATO DAL DOC. TERNA						
P045DN0000						
CLASSIFICAZIONE DI SICUREZZA						
NA						
NOME DEL FILE	SCALA CAD	FORMATO	SCALA	FOGLIO		
P045DN5400_00.pdf	1 unità = NA	A4	NA	00/--		

Questo documento contiene informazioni di proprietà Terna S.p.A. e deve essere utilizzato esclusivamente dal destinatario in relazione alle finalità per le quali è stato ricevuto. E' vietata qualsiasi forma di riproduzione o di divulgazione senza l'esplicito consenso di Terna S.p.A.

This document contains information proprietary to Terna S.p.A. and it will have to be used exclusively for the purposes for which it has been furnished. Whichever shape of spreading or reproduction without the written permission of Terna S.p.A. is prohibit.



RELAZIONE DI CALCOLO

PROGETTO ESECUTIVO
DI PALI MONOSTELO AUTOPORTANTI
PER LINEE ELETTRICHE COMPATTAE A 380 kV

SOSTEGNO TIPO NDT 30

TIPO DI SOSTEGNO

- Altezza fuori terra del sostegno in opera = 53.36 m
- Dispositivo di attacco alla fondazione : con piastra di base e tirafondi
- Numero dei tronchi costituenti il sostegno = 5
- Sezione poligonale a 16 lati

Pagina 1

05/05/2000

99-cei

EUT - 5400 - C



SIDERPALI S.P.A.

- INDICE GENERALE -

- Legenda	pg. 3
- Norme tecniche di progettazione	pg. 4
- Geometria del sostegno tubolare monostelo	pg. 4
- Qualità dei materiali adottati	pg. 4
- Note generali	pg. 5
- Tabella descrittiva delle sezioni	pg. 6
- Geometria delle masse	pg. 7
- Condizioni di carico	pg. 8+
- Verifica dei tirafondi	pg. 182
- Verifica della flangia di base	pg. 182
- Linea elastica	pg. 183
- Sforzi trasmessi alla fondazione	pg. 185
- Combinazioni più sfavorevoli	pg. 187

Pagina 2

05/05/2000

99-cei

EUT - 5400 - C

LEGENDA

- Tabella descrittiva delle sezioni

H = quota del nodo rispetto alla base del palo

Sp = spessore della sezione

Diam = diametro misurato in faccia ed in spigolo

l.FEM = lunghezza dell'elemento finito

b(0) = ampiezza della faccia calcolata secondo le CNR 10022

b = larghezza efficace della faccia

- Geometria delle masse

Sezione min = sezione minima efficace del poligono

W min = modulo d'inerzia minimo efficace del poligono

Jt = momento d'inerzia torsionale

- Tabella dei carichi

H = quota del punto di applicazione dei carichi trasmessi dal conduttore (o fune di guardia)

Eccentricità del conduttore = 1) per bracci a mensole rigide: distanza dall'asse palo. 2) per triangolo isolante: proiezione orizzontale della lunghezza del puntone isolato.

- Tabella delle azioni interne e degli sforzi in fondazione

Tx = Taglio in direzione trasversale

My = Momento in direzione trasversale

Ty = Taglio in direzione longitudinale

Mx = Momento in direzione longitudinale

Mt = Momento torcente

Sig. Amm. = Tensione ammissibile

% uso = Percentuale d'uso della sezione, data dal rapporto tra tensione di calcolo e tensione ammissibile.

Rt = Risultante dei tagli

Rm = Momento risultante

Pagina 3

05/05/2000

99-cei

EUT - 5400 - C

NORME TECNICHE DI PROGETTAZIONE

- **Generale:** Legge n. 339 del 28/06/86
- D.M. n. 28 del 21/03/88 recante: Norme tecniche per la disciplina della costruzione ed esercizio di linee elettriche aeree esterne
- Norme CEI 11 - 4
- D.M. del 09/01/1996: Norme tecniche e per le strutture metalliche.
- UNI EN 10025 : Prodotti laminati a caldo ..
- C.N.R.10011/88 : Costruzioni di acciaio: istruzioni per il calcolo l'esecuzione, il collaudo e la manutenzione.
- **Per la definizione delle tensioni ammesse nei tronchi pressopiegati:** C.N.R.10022 del 22/11/1984: Costruzioni di profilati di acciaio formati a freddo
- **Per i carichi esterni sulla struttura:** Specifica ENEL

GEOMETRIA SOSTEGNO TUBOLARE MONOSTELO

Sezione trasversale : POLIGONO REGOLARE DI 16 LATI

Tronco	Diametro testa [mm]	Diametro base [mm]	Lunghezza [mm]	Innesto [mm]	Spessore [mm]
1	560.0	905.9	12000.0	1495	6.00
2	848.8	1220.6	12900.0	2020	10.00
3	1140.3	1503.8	12610.0	2490	14.00
4	1402.0	1772.5	12855.0	2930	14.00
5	1658.0	2000.0	11930.0	0	14.00

N.B. I diametri sono riferiti al cerchio circoscritto

QUALITA' DEI MATERIALI ADOTTATI

Lamiere in acciaio tipo FE 510 (S 355) UNI EN 10025,

Flange in acciaio tipo FE 510 (S 355) UNI EN 10025,

Tirafondi in acciaio per bulloni classe 8.8 UNI EN 10228.

Pagina 4

05/05/2000

99-cei

EUT - 5400 - C

NOTE GENERALI

Pali di tipo autoportante a stelo unico, di forma conica costante, ottenuti da lamiera piegata a freddo e saldata nel senso longitudinale. La sezione trasversale forma un poligono regolare; i lati sono uniti da raccordi circolari realizzati in fase di presso-piegatura.

L'incastro nel blocco di fondazione è realizzato mediante piastra e tirafondi o con l'infissione diretta del tronco di base.

I pali sono costituiti da vari tronchi da unire sul luogo di installazione con il metodo di "sovrapposizione ad incastro". Le forze di innesto da applicare sono indicate nel disegno di insieme della struttura.

PRESSOPIEGATURA

La pressopiegatura della lamiera avviene nel rispetto dei raggi di curvatura minimi prescritti dalle norme UNI EN 10025.

CAMPO DI APPLICAZIONE

La presente relazione di calcolo contempla esclusivamente i componenti strutturali espressamente analizzati, tutti gli accessori, le mensole ed i relativi attacchi ecc. non sono esaminati nel presente documento.

METODO DI CALCOLO

Il calcolo delle sollecitazioni viene eseguito considerando i carichi statici specificati nei punti successivi. L'analisi viene condotta tenendo in considerazione degli effetti del II ordine. La soluzione viene ricercata adottando un modello di trave alla Eulero-Bernoulli ed un metodo solutivo alla Newton-Raphson. Le tabelle successive sono formulate in modo tale da consentire di testare manualmente la bontà dell'analisi condotta. La suddivisione dei tronchi per elementi finiti viene condotta a partire dalla testa di ogni tronco, in base al passo ottimale, fino alla sezione corrispondente alla testa del tratto di sovrapposizione. Il programma adottato è GAIA v. 04052000

TENSIONI

Il valore delle sollecitazioni massime viene determinato mediante la relazione dettata dal criterio di Von Mises nel punto ove le tensioni sono massime. Le tensioni ammesse lungo il fusto vengono calcolate secondo le CNR 10022 in base al rapporto lato-spessore della sezione in esame, adottando quindi il momento di inerzia e la sezione ridotta dedotta dal calcolo.

RIPARTIZIONE DEI CARICHI

Al fine di conservare una omogenea ripartizione degli elementi finiti lungo i tronchi, i carichi trasmessi da mensole, isolatori ecc.... vengono ripartiti fra i nodi dell'elemento interessato con il principio dell'equivalenza.

Pagina 5

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE SEZIONI

Tronco	Nodo	H [mm]	Sp. [mm]	Diam. faccia [mm]	Diam. spigolo [mm]	l. FEM [mm]	b(0) [mm]	b [mm]
1	1	53360	6.00	549.2	560.0	955	100.90	100.90
1	2	52405	6.00	576.2	587.5	955	106.27	106.27
1	3	51450	6.00	603.2	615.0	955	111.64	111.64
1	4	50495	6.00	630.2	642.6	955	117.01	117.01
1	5	49540	6.00	657.2	670.1	955	122.37	122.37
1	6	48585	6.00	684.2	697.6	955	127.74	127.74
1	7	47630	6.00	711.2	725.1	955	133.11	133.11
1	8	46675	6.00	738.2	752.7	955	138.48	138.48
1	9	45720	6.00	765.2	780.2	955	143.85	143.85
1	10	44765	6.00	792.2	807.7	955	149.22	149.22
1	11	43810	6.00	819.2	835.2	955	154.59	154.59
1	12	42855	6.00	846.2	862.8	955	159.96	159.96
2	13	41866	10.00	860.4	877.3	989	157.22	157.22
2	14	40877	10.00	888.4	905.8	989	162.78	162.78
2	15	39888	10.00	916.3	934.3	989	168.35	168.35
2	16	38899	10.00	944.3	962.8	989	173.91	173.91
2	17	37910	10.00	972.2	991.3	989	179.47	179.47
2	18	36920	10.00	1000.2	1019.8	989	185.03	185.03
2	19	35931	10.00	1028.2	1048.3	989	190.59	190.59
2	20	34942	10.00	1056.1	1076.8	989	196.15	196.15
2	21	33953	10.00	1084.1	1105.3	989	201.71	201.71
2	22	32964	10.00	1112.0	1133.8	989	207.27	207.27
2	23	31975	10.00	1140.0	1162.3	989	212.84	212.84
3	24	31055	14.00	1144.4	1166.8	920	208.15	208.15
3	25	30135	14.00	1170.4	1193.4	920	213.32	213.32
3	26	29215	14.00	1196.4	1219.9	920	218.49	218.49
3	27	28295	14.00	1222.4	1246.4	920	223.67	223.67
3	28	27375	14.00	1248.5	1272.9	920	228.84	228.84
3	29	26455	14.00	1274.5	1299.4	920	234.01	234.01
3	30	25535	14.00	1300.5	1325.9	920	239.18	239.18
3	31	24615	14.00	1326.5	1352.5	920	244.36	244.36
3	32	23695	14.00	1352.5	1379.0	920	249.53	249.53
3	33	22775	14.00	1378.5	1405.5	920	254.70	254.70
3	34	21855	14.00	1404.5	1432.0	920	259.88	259.88
4	35	20862	14.00	1403.1	1430.6	993	259.60	259.60
4	36	19870	14.00	1431.2	1459.2	993	265.18	265.18
4	37	18877	14.00	1459.2	1487.8	993	270.76	270.76
4	38	17885	14.00	1487.3	1516.4	993	276.35	276.35
4	39	16892	14.00	1515.3	1545.0	993	281.93	281.93
4	40	15900	14.00	1543.4	1573.6	993	287.51	287.51
4	41	14907	14.00	1571.4	1602.2	993	293.09	293.09
4	42	13915	14.00	1599.5	1630.8	993	298.67	298.67
4	43	12922	14.00	1627.6	1659.4	993	304.25	304.25
4	44	11930	14.00	1655.6	1688.0	993	309.83	309.83
5	45	10936	14.00	1654.1	1686.5	994	309.53	309.53
5	46	9942	14.00	1682.1	1715.0	994	315.09	315.09
5	47	8947	14.00	1710.0	1743.5	994	320.65	320.65
5	48	7953	14.00	1738.0	1772.0	994	326.21	326.21
5	49	6959	14.00	1765.9	1800.5	994	331.77	331.77
5	50	5965	14.00	1793.9	1829.0	994	337.33	337.33
5	51	4971	14.00	1821.8	1857.5	994	342.89	342.89
5	52	3977	14.00	1849.8	1886.0	994	348.45	348.45
5	53	2982	14.00	1877.7	1914.5	994	354.01	354.01
5	54	1988	14.00	1905.7	1943.0	994	359.57	359.57
5	55	994	14.00	1933.6	1971.5	994	365.13	365.13
5	56	-0	14.00	1961.6	2000.0	994	370.69	370.69

Pagina 6

05/05/2000

99-cei

EUT - 5400 - C

GEOMETRIA DELLE MASSE

Tronco	Nodo	Sezione min [mm ²]	W min [mm ³]	Jt [mm ⁴]
1	2	10889	1526677	903911120
1	3	11404	1675417	1037481117
1	4	11920	1831071	1183600808
1	5	12435	1993639	1342833670
1	6	12951	2163121	1515743180
1	7	13466	2339518	1702892818
1	8	13982	2522828	1904846060
1	9	14497	2713053	2122166384
1	10	15013	2910192	2355417268
1	11	15528	3114244	2605162189
1	12	16044	3325211	2871964625
2	13	27065	5652347	5009168399
2	14	27955	6032296	551559579
2	15	28845	6424606	6054977758
2	16	29735	6829277	6628466273
2	17	30624	7246308	7237068457
2	18	31514	7675701	7881827648
2	19	32404	8117454	8563787180
2	20	33294	8571568	9283990389
2	21	34184	9038043	10043480611
2	22	35074	9516879	10843301181
2	23	35963	10008076	11684495434
3	24	50368	13974018	16491881176
3	25	51527	14628288	17646748981
3	26	52685	15297529	18854309457
3	27	53844	15981743	20115738062
3	28	55003	16680928	21432210254
3	29	56161	17395086	22804901490
3	30	57320	18124215	24234987227
3	31	58479	18868317	25723642923
3	32	59638	19627390	27272044035
3	33	60796	20401436	28881366021
3	34	61955	21190453	30552784337
4	35	61894	21148560	30463262777
4	36	63144	22015694	32333751978
4	37	64394	22900253	34279281912
4	38	65644	23802236	36301328407
4	39	66894	24721644	38401367286
4	40	68144	25658477	40580874375
4	41	69394	26612734	42841325500
4	42	70644	27584417	45184196485
4	43	71894	28573524	47610963157
4	44	73144	29580056	50123101339
5	45	73079	29526700	49988866210
5	46	74324	30545819	52573224213
5	47	75569	31582232	55245152843
5	48	76814	32635937	58006111167
5	49	78060	33706935	60857558249
5	50	79305	34795225	63800953154
5	51	80550	35900808	66837754949
5	52	81796	37023683	69969422698
5	53	83041	38163851	73197415467
5	54	84286	39321311	76523192320
5	55	85531	40496064	79948212324
5	56	86777	41688110	83473934542

Pagina 7

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 1 " NDT - EDS - ZONA A - NORMALE - FRECCIA - 0.5 % "

Pressione trasversale del vento = 0.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	4200.00	0.00	0.00	0.00
2.00	43.82	41600.00	0.00	0.00	4.75
---	---	---	Ft = 52854	Fp = -28562	---
---	---	Pa = 44571	Ta = 28407	La = 0	---
---	---	Pb = -2971	Tb = -28407	Lb = 0	---
3.00	43.82	41600.00	0.00	0.00	-4.75
---	---	---	Ft = 52854	Fp = -28562	---
---	---	Pa = 44571	Ta = -28407	La = 0	---
---	---	Pb = -2971	Tb = 28407	Lb = 0	---
4.00	37.02	41600.00	0.00	0.00	4.75
---	---	---	Ft = 52854	Fp = -28562	---
---	---	Pa = 44571	Ta = 28407	La = 0	---
---	---	Pb = -2971	Tb = -28407	Lb = 0	---
5.00	37.02	41600.00	0.00	0.00	-4.75
---	---	---	Ft = 52854	Fp = -28562	---
---	---	Pa = 44571	Ta = -28407	La = 0	---
---	---	Pb = -2971	Tb = 28407	Lb = 0	---
6.00	30.22	41600.00	0.00	0.00	4.75
---	---	---	Ft = 52854	Fp = -28562	---
---	---	Pa = 44571	Ta = 28407	La = 0	---
---	---	Pb = -2971	Tb = -28407	Lb = 0	---
7.00	30.22	41600.00	0.00	0.00	-4.75
---	---	---	Ft = 52854	Fp = -28562	---
---	---	Pa = 44571	Ta = -28407	La = 0	---
---	---	Pb = -2971	Tb = 28407	Lb = 0	---

Pagina 8

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	5002	0	0	-0	0	0	215.80	0.00
3	5842	-0	0	0	0	0	215.80	0.00
4	6719	0	0	0	0	-0	215.80	0.00
5	7635	0	0	0	0	-0	215.80	0.00
6	8589	0	0	0	0	-0	215.80	0.00
7	55951	0	0	-0	-0	-0	215.80	0.02
8	103351	-0	0	-0	0	-0	215.80	0.04
9	104419	0	0	-0	0	-0	215.80	0.03
10	105524	0	0	-0	0	-0	215.80	0.03
11	103697	0	0	0	0	-0	215.80	0.03
12	104877	0	0	-0	0	-0	215.80	0.03
13	106941	0	0	-0	0	-0	215.80	0.03
14	155443	0	0	-0	0	-0	215.80	0.03
15	204014	0	0	0	0	-0	215.80	0.03
16	206282	0	0	0	0	-0	215.80	0.03
17	208617	0	0	0	0	-0	215.80	0.03
18	208050	0	0	0	0	-0	215.80	0.03
19	207551	0	0	0	0	-0	215.80	0.03
20	210090	0	0	0	0	-0	215.80	0.03
21	259068	0	0	-0	0	-0	215.80	0.04
22	308113	0	0	0	0	-0	215.80	0.04
23	318476	0	0	0	0	-0	215.80	0.04
24	322049	0	0	0	0	-0	215.80	0.04
25	322734	0	0	0	0	-0	215.80	0.03
26	323500	0	0	0	0	-0	215.80	0.03
27	327320	0	0	0	0	-0	215.80	0.03
28	331222	0	0	0	0	-0	215.80	0.03
29	335206	0	0	0	0	-0	215.80	0.03
30	339272	0	0	0	0	-0	215.80	0.03
31	343420	0	0	0	0	-0	215.80	0.03
32	347651	0	0	0	0	-0	215.80	0.03
33	351964	0	0	0	0	-0	215.80	0.03
34	368031	0	0	0	0	-0	215.80	0.03
35	372768	0	0	0	0	-0	215.80	0.03
36	377600	0	0	-0	0	-0	215.80	0.03
37	382528	0	0	0	0	-0	215.80	0.03
38	387552	0	0	0	0	-0	215.80	0.03
39	392671	0	0	0	0	-0	215.80	0.03
40	397886	0	0	0	0	-0	215.80	0.03
41	403197	0	0	0	0	-0	215.80	0.03
42	408603	0	0	0	0	-0	215.80	0.03
43	414105	0	0	0	0	-0	215.80	0.03
44	435945	0	0	0	0	-0	215.80	0.03
45	441547	0	0	0	0	-0	215.80	0.03
46	447244	0	0	0	0	-0	215.80	0.03
47	453037	0	0	0	0	-0	215.80	0.03
48	458926	0	0	0	0	-0	215.80	0.03
49	464909	0	0	0	0	-0	215.80	0.03
50	470989	0	0	0	0	-0	215.80	0.03
51	477163	0	0	0	0	-0	215.80	0.03
52	483434	0	0	0	0	-0	215.80	0.03
53	489799	0	0	0	0	-0	215.80	0.03
54	496260	0	0	0	0	-0	215.80	0.03
55	502817	0	0	0	0	-0	215.80	0.03
56	509469	0	0	0	0	-0	215.80	0.03

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 2 " NDT - CVS3 - ZONA A - NORMALE - FRECCIA - 1.5 % - 3 x 31.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	4250.00	1000.00	2200.00	0.00
2.00	43.82	40300.00	6250.00	0.00	4.75
---	---	---	Ft = 50372	Fp = -20937	---
---	---	Pa = 42478	Ta = 27073	La = 0	---
---	---	Pb = -2178	Tb = -20823	Lb = 0	---
3.00	43.82	40300.00	6250.00	0.00	-4.75
---	---	---	Ft = 52032	Fp = -34402	---
---	---	Pa = 43878	Ta = -27966	La = 0	---
---	---	Pb = -3578	Tb = 34216	Lb = 0	---
4.00	37.02	40300.00	6250.00	0.00	4.75
---	---	---	Ft = 50372	Fp = -20937	---
---	---	Pa = 42478	Ta = 27073	La = 0	---
---	---	Pb = -2178	Tb = -20823	Lb = 0	---
5.00	37.02	40300.00	6250.00	0.00	-4.75
---	---	---	Ft = 52032	Fp = -34402	---
---	---	Pa = 43878	Ta = -27966	La = 0	---
---	---	Pb = -3578	Tb = 34216	Lb = 0	---
6.00	30.22	40300.00	6250.00	0.00	4.75
---	---	---	Ft = 50372	Fp = -20937	---
---	---	Pa = 42478	Ta = 27073	La = 0	---
---	---	Pb = -2178	Tb = -20823	Lb = 0	---
7.00	30.22	40300.00	6250.00	0.00	-4.75
---	---	---	Ft = 52032	Fp = -34402	---
---	---	Pa = 43878	Ta = -27966	La = 0	---
---	---	Pb = -3578	Tb = 34216	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm²]	% Uso
2	5052	1097	1282757	2201	2518849	0	215.80	0.01
3	5892	1195	2481855	2201	4632310	0	215.80	0.02
4	6769	1297	3786913	2201	6747297	0	215.80	0.02
5	7685	1404	5202539	2201	8863711	0	215.80	0.03
6	8639	1515	6733325	2201	10981442	0	215.80	0.03
7	54608	156	7878488	2206	13184127	0	215.80	0.05
8	100616	939	6330535	2211	15464480	-0	215.80	0.07
9	101683	1063	8320088	2211	17738259	-0	215.80	0.07
10	102789	1191	10437167	2211	20005100	-0	215.80	0.07
11	101054	10654	19599616	2210	22260350	-0	215.80	0.08
12	102327	14849	35877331	2210	24508606	-0	215.80	0.10
13	104391	15049	52398126	2216	26923266	-0	215.80	0.11
14	151501	14924	68675678	2214	29299841	-0	215.80	0.09
15	198678	14475	80414482	2217	31727114	-0	215.80	0.10
16	200946	14631	96730243	2217	34145487	-0	215.80	0.11
17	203282	14793	113194703	2216	36554996	-0	215.80	0.11
18	202807	25935	138552094	2216	38952553	-0	215.80	0.12
19	202401	28518	169274416	2215	41338549	-0	215.80	0.13
20	204940	28693	199386738	2214	43716208	-0	215.80	0.15
21	252525	25426	227669767	2217	46127541	-0	215.80	0.16
22	300177	28218	255374491	2219	48568045	-0	215.80	0.17
23	310540	28409	285879343	2219	51002314	-0	215.80	0.18
24	314113	28648	315231770	2225	53339862	-0	215.80	0.19
25	314891	40763	352939514	2217	55582223	-0	215.80	0.15
26	315750	42342	394440083	2216	57815685	-0	215.80	0.15
27	319570	42531	435615798	2216	60042295	-0	215.80	0.16
28	323472	42724	476932101	2215	62262145	-0	215.80	0.17
29	327456	42922	518390271	2215	64475328	-0	215.80	0.17
30	331522	43124	559991839	2214	66681928	-0	215.80	0.18
31	335670	43330	601738547	2214	68882027	-0	215.80	0.18
32	339901	43540	643632321	2213	71075704	-0	215.80	0.19
33	344214	43754	685675245	2213	73263032	-0	215.80	0.19
34	360281	43976	727931380	2212	75449339	-0	215.80	0.19
35	365018	44214	773657700	2212	77797459	-0	215.80	0.20
36	369850	44456	819596033	2211	80141272	-0	215.80	0.21
37	374778	44701	865704127	2211	82476990	-0	215.80	0.21
38	379802	44950	911985361	2210	84804710	-0	215.80	0.21
39	384921	45204	958443156	2209	87124517	-0	215.80	0.21
40	390136	45463	1005081006	2209	89436487	-0	215.80	0.22
41	395447	45727	1051902470	2208	91740691	-0	215.80	0.22
42	400853	45996	1098911154	2208	94037194	-0	215.80	0.22
43	406355	46270	1146110706	2207	96326053	-0	215.80	0.22
44	428195	46552	1193554455	2207	98611178	-0	215.80	0.22
45	433797	46835	1241250888	2206	100890544	-0	215.80	0.22
46	439494	47120	1289159330	2206	103163462	-0	215.80	0.23
47	445287	47408	1337258630	2205	105428044	-0	215.80	0.23
48	451176	47702	1385552665	2205	107684344	-0	215.80	0.23
49	457159	48000	1434045274	2204	109932407	-0	215.80	0.23
50	463239	48304	1482740298	2203	112172273	-0	215.80	0.23
51	469413	48612	1531641571	2203	114403975	-0	215.80	0.23
52	475684	48926	1580752924	2202	116627543	-0	215.80	0.23
53	482049	49244	1630078174	2202	118843002	-0	215.80	0.23
54	488510	49567	1679621130	2201	121050370	-0	215.80	0.23
55	495067	49896	1729385587	2201	123249665	-0	215.80	0.23
56	501719	50229	1779375323	2200	125440897	-0	215.80	0.23

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 3 " NDT - CVS3 - ZONA A - NORMALE - FRECCIA - 1.5 % - 2 x 40.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	4400.00	1000.00	2200.00	0.00
2.00	43.82	42950.00	5550.00	0.00	4.75
---	---	---	Ft = 53831	Fp = -23510	---
---	---	Pa = 45395	Ta = 28933	La = 0	---
---	---	Pb = -2445	Tb = -23383	Lb = 0	---
3.00	43.82	42950.00	5550.00	0.00	-4.75
---	---	---	Ft = 55306	Fp = -35468	---
---	---	Pa = 46639	Ta = -29725	La = 0	---
---	---	Pb = -3689	Tb = 35275	Lb = 0	---
4.00	37.02	42950.00	5550.00	0.00	4.75
---	---	---	Ft = 53831	Fp = -23510	---
---	---	Pa = 45395	Ta = 28933	La = 0	---
---	---	Pb = -2445	Tb = -23383	Lb = 0	---
5.00	37.02	42950.00	5550.00	0.00	-4.75
---	---	---	Ft = 55306	Fp = -35468	---
---	---	Pa = 46639	Ta = -29725	La = 0	---
---	---	Pb = -3689	Tb = 35275	Lb = 0	---
6.00	30.22	42950.00	5550.00	0.00	4.75
---	---	---	Ft = 53831	Fp = -23510	---
---	---	Pa = 45395	Ta = 28933	La = 0	---
---	---	Pb = -2445	Tb = -23383	Lb = 0	---
7.00	30.22	42950.00	5550.00	0.00	-4.75
---	---	---	Ft = 55306	Fp = -35468	---
---	---	Pa = 46639	Ta = -29725	La = 0	---
---	---	Pb = -3689	Tb = 35275	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	5202	1097	1280005	2201	2519239	0	215.80	0.01
3	6042	1195	2475651	2201	4633096	0	215.80	0.02
4	6919	1297	3776528	2201	6748484	-0	215.80	0.02
5	7835	1403	5187211	2201	8865300	-0	215.80	0.03
6	8789	1515	6712264	2201	10983436	0	215.80	0.03
7	57597	327	7950757	2207	13192430	-0	215.80	0.05
8	106444	1041	6853198	2212	15484532	-0	215.80	0.07
9	107512	1165	8909455	2212	17769562	-0	215.80	0.07
10	108617	1293	11091795	2212	20047134	-0	215.80	0.07
11	106694	9710	19540910	2212	22312254	-0	215.80	0.08
12	107777	13451	34320117	2211	24569582	-0	215.80	0.09
13	109841	13651	49394998	2218	26998740	-0	215.80	0.11
14	159790	13555	64256054	2215	29388032	-0	215.80	0.09
15	209807	13178	75141285	2220	31831596	-0	215.80	0.10
16	212074	13334	90105713	2219	34265546	-0	215.80	0.10
17	214410	13495	105217380	2218	36689930	-0	215.80	0.11
18	213746	23408	128239114	2218	39101433	-0	215.80	0.12
19	213151	25720	156038472	2217	41500481	-0	215.80	0.13
20	215690	25895	183312422	2216	43890550	-0	215.80	0.14
21	266114	23018	209012117	2219	46316696	-0	215.80	0.15
22	316606	25521	234246606	2222	48774100	-0	215.80	0.17
23	326969	25712	261984381	2221	51224399	-0	215.80	0.17
24	330542	25952	288730137	2228	53581217	-0	215.80	0.18
25	331130	36722	322844134	2219	55836831	-0	215.80	0.14
26	331800	38144	360339743	2218	58082848	-0	215.80	0.15
27	335620	38333	397562512	2218	60321472	-0	215.80	0.15
28	339522	38526	434926084	2217	62552812	-0	215.80	0.16
29	343506	38724	472431947	2216	64776970	-0	215.80	0.16
30	347572	38925	510081826	2216	66994047	-0	215.80	0.17
31	351720	39131	547877650	2215	69204137	-0	215.80	0.17
32	355951	39341	585821521	2215	71407332	-0	215.80	0.17
33	360264	39555	623915694	2214	73603716	-0	215.80	0.18
34	376331	39777	662219000	2214	75798675	-0	215.80	0.18
35	381068	40015	703684677	2213	78155469	-0	215.80	0.18
36	385900	40257	745362749	2213	80507625	-0	215.80	0.19
37	390828	40501	787213292	2212	82851170	-0	215.80	0.20
38	395852	40750	829239869	2211	85186215	-0	215.80	0.20
39	400971	41004	871446075	2211	87512859	-0	215.80	0.20
40	406186	41263	913835581	2210	89831194	-0	215.80	0.20
41	411497	41527	956412109	2209	92141304	-0	215.80	0.20
42	416903	41796	999179433	2209	94443267	-0	215.80	0.20
43	422405	42070	1042141359	2208	96737153	-0	215.80	0.20
44	444245	42352	1085347039	2208	99026914	-0	215.80	0.21
45	449847	42635	1128803887	2207	101310435	-0	215.80	0.21
46	455544	42920	1172476335	2206	103587172	-0	215.80	0.21
47	461337	43208	1216344717	2206	105855160	-0	215.80	0.21
48	467226	43502	1260413055	2205	108114464	-0	215.80	0.21
49	473209	43800	1304685336	2204	110365140	-0	215.80	0.21
50	479289	44104	1349165542	2204	112607240	-0	215.80	0.21
51	485463	44412	1393857654	2203	114840807	-0	215.80	0.21
52	491734	44725	1438765643	2203	117065881	-0	215.80	0.21
53	498099	45044	1483893469	2202	119282495	-0	215.80	0.21
54	504560	45367	1529245081	2201	121490678	-0	215.80	0.21
55	511117	45695	1574824415	2201	123690456	-0	215.80	0.21
56	517769	46029	1620635390	2200	125881848	-0	215.80	0.21

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 4 " NDT - MSA - ZONA A - NORMALE - RESISTENZA - 3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	5360.00	3800.00	6000.00	0.00
2.00	43.82	44590.00	24620.00	0.00	4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = 28691	La = 0	---
---	---	Pb = -426	Tb = -4071	Lb = 0	---
3.00	43.82	44590.00	24620.00	0.00	-4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = -32207	La = 0	---
---	---	Pb = -5943	Tb = 56827	Lb = 0	---
4.00	37.02	44590.00	24620.00	0.00	4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = 28691	La = 0	---
---	---	Pb = -426	Tb = -4071	Lb = 0	---
5.00	37.02	44590.00	24620.00	0.00	-4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = -32207	La = 0	---
---	---	Pb = -5943	Tb = 56827	Lb = 0	---
6.00	30.22	44590.00	24620.00	0.00	4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = 28691	La = 0	---
---	---	Pb = -426	Tb = -4071	Lb = 0	---
7.00	30.22	44590.00	24620.00	0.00	-4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = -32207	La = 0	---
---	---	Pb = -5943	Tb = 56827	Lb = 0	---

Pagina 14

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	6162	4195	4952485	6002	6876498	0	215.80	0.03
3	7002	4587	9608282	6002	12647348	0	215.80	0.05
4	7879	4997	14688898	6003	18422268	-0	215.80	0.07
5	8795	5426	20212788	6003	24200952	-0	215.80	0.08
6	9749	5873	26198357	6003	29983078	0	215.80	0.10
7	60315	567	30900261	6020	36023248	0	215.80	0.12
8	110918	3696	25226606	6037	42299489	-0	215.80	0.14
9	111986	4192	33493886	6037	48555365	-0	215.80	0.15
10	113091	4704	42269067	6036	54789777	-0	215.80	0.15
11	111051	41986	78787929	6034	60988501	-0	215.80	0.19
12	112017	58521	143326883	6033	67164370	-0	215.80	0.27
13	114081	59361	209141965	6053	73820510	-0	215.80	0.34
14	165787	58862	273920262	6046	80362424	-0	215.80	0.26
15	217561	57133	321034644	6058	87058499	-0	215.80	0.29
16	219829	57759	386174754	6056	93726958	-0	215.80	0.32
17	222164	58402	451895848	6055	100367945	-0	215.80	0.35
18	221384	102302	552629070	6052	106972025	-0	215.80	0.39
19	220671	112482	674476286	6050	113540430	-0	215.80	0.45
20	223210	113182	793913098	6048	120083077	-0	215.80	0.49
21	275391	100344	906320911	6056	126728214	-0	215.80	0.53
22	327640	111376	1016615232	6064	133462138	-0	215.80	0.57
23	338003	112138	1137921601	6062	140175038	-0	215.80	0.60
24	341576	113138	1254936349	6081	146639101	-0	215.80	0.63
25	342047	160816	1404488455	6056	152815810	-0	215.80	0.50
26	342600	167044	1568959319	6054	158965041	-0	215.80	0.53
27	346420	167798	1732137729	6052	165093088	-0	215.80	0.56
28	350322	168570	1895856788	6050	171200270	-0	215.80	0.58
29	354306	169358	2060121320	6048	177286896	-0	215.80	0.60
30	358372	170163	2224937252	6047	183353263	-0	215.80	0.62
31	362520	170985	2390311459	6045	189399656	-0	215.80	0.64
32	366751	171824	2556251630	6043	195426346	-0	215.80	0.66
33	371064	172679	2722766156	6041	201433592	-0	215.80	0.67
34	387131	173569	2890110696	6041	207436192	-0	215.80	0.69
35	391868	174519	3071168233	6038	213880193	-0	215.80	0.70
36	396700	175487	3253059311	6037	220310928	-0	215.80	0.74
37	401628	176462	3435602443	6035	226717196	-0	215.80	0.75
38	406652	177458	3618811586	6033	233099333	-0	215.80	0.76
39	411771	178473	3802700866	6031	239457639	-0	215.80	0.77
40	416986	179508	3987284736	6029	245792389	-0	215.80	0.78
41	422297	180564	4172577921	6027	252103841	-0	215.80	0.78
42	427703	181639	4358595361	6025	258392229	-0	215.80	0.79
43	433205	182734	4545352170	6023	264657772	-0	215.80	0.79
44	455045	183860	4733061408	6022	270911329	-0	215.80	0.80
45	460647	184991	4921749931	6020	277146963	-0	215.80	0.80
46	466344	186131	5111268289	6018	283363458	-0	215.80	0.83
47	472137	187285	5301526691	6016	289555308	-0	215.80	0.83
48	478026	188459	5492541270	6015	295722718	-0	215.80	0.84
49	484009	189652	5684327990	6013	301865862	-0	215.80	0.84
50	490089	190866	5876902812	6011	307984897	-0	215.80	0.84
51	496263	192100	6070281675	6009	314079964	-0	215.80	0.84
52	502534	193354	6264480490	6007	320151188	-0	215.80	0.84
53	508899	194628	6459515120	6006	326198681	-0	215.80	0.84
54	515360	195922	6655401381	6004	332222538	-0	215.80	0.84
55	521917	197236	6852155026	6002	338222844	-0	215.80	0.84
56	528569	198570	7049791744	6001	344199669	-0	215.80	0.84

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 5 " NDT - MSA - ZONA A - NORMALE - RESISTENZA - 3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	3800.00	6000.00	0.00
2.00	43.82	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
3.00	43.82	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
4.00	37.02	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
5.00	37.02	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
6.00	30.22	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
7.00	30.22	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	4171	4716092	6000	6844313	0	215.80	0.03
3	1642	4560	9131872	6000	12583002	0	215.80	0.05
4	2519	4967	13968850	6000	18326006	0	215.80	0.06
5	3435	5393	19245461	6000	24073176	0	215.80	0.08
6	4389	5836	24980072	6000	29824299	0	215.80	0.09
7	8560	3316	29379246	6000	35593776	0	215.80	0.10
8	12768	5024	27916440	6001	41379962	-0	215.80	0.10
9	13836	5522	33689122	6001	47167825	-0	215.80	0.11
10	14941	6039	39991884	6001	52956996	-0	215.80	0.12
11	14706	38411	70209497	6001	58741952	-0	215.80	0.15
12	17477	58124	131318320	6001	64533371	0	215.80	0.22
13	19541	58723	190553394	6001	70576732	0	215.80	0.29
14	24852	58814	249777254	6001	76591276	0	215.80	0.22
15	30231	58184	299662886	6001	82618646	0	215.80	0.24
16	32499	58825	358969872	6001	88648256	0	215.80	0.27
17	34834	59485	418990036	6001	94679755	0	215.80	0.30
18	35859	97857	509344883	6001	100709146	0	215.80	0.34
19	36951	111860	625006699	6001	106736455	0	215.80	0.39
20	39490	112579	737617402	6001	112764972	0	215.80	0.43
21	45276	106474	846418799	6001	118801504	0	215.80	0.47
22	51130	112319	953927147	6002	124844914	0	215.80	0.50
23	61493	113099	1067592836	6002	130903022	0	215.80	0.53
24	65066	113849	1174680575	6002	136579940	0	215.80	0.56
25	67342	155311	1312167478	6002	142212813	0	215.80	0.44
26	69700	166342	1469788313	6002	147844585	0	215.80	0.47
27	73520	167119	1625321069	6002	153477302	0	215.80	0.50
28	77422	167914	1781623700	6002	159110705	0	215.80	0.53
29	81406	168725	1938706439	6002	164744534	0	215.80	0.55
30	85472	169553	2096579447	6002	170378534	0	215.80	0.57
31	89620	170398	2255252821	6002	176012449	0	215.80	0.59
32	93851	171260	2414736594	6002	181646025	0	215.80	0.60
33	98164	172138	2575040748	6002	187279011	0	215.80	0.62
34	114231	173037	2736399314	6002	192923919	0	215.80	0.63
35	118968	174020	2911396938	6002	199009232	0	215.80	0.65
36	123800	175003	3087397562	6002	205094662	0	215.80	0.69
37	128728	176006	3264359561	6002	211176845	0	215.80	0.70
38	133752	177028	3442294969	6002	217255490	0	215.80	0.71
39	138871	178069	3621215793	6002	223330307	0	215.80	0.72
40	144086	179130	3801134018	6002	229401005	0	215.80	0.72
41	149397	180210	3982061612	6002	235467294	0	215.80	0.73
42	154803	181310	4164010527	6002	241528885	0	215.80	0.74
43	160305	182430	4346992689	6002	247585490	0	215.80	0.74
44	182145	183571	4531201881	6002	253646252	0	215.80	0.75
45	187747	184732	4716730887	6001	259708962	0	215.80	0.75
46	193444	185891	4903325876	6001	265766457	0	215.80	0.78
47	199237	187070	5090959163	6001	271816420	0	215.80	0.79
48	205126	188269	5279642560	6001	277858583	0	215.80	0.79
49	211109	189486	5469387848	6001	283892681	0	215.80	0.79
50	217189	190724	5660206791	6001	289918444	0	215.80	0.79
51	223363	191981	5852111134	6001	295935605	0	215.80	0.79
52	229634	193258	6045112601	6001	301943896	0	215.80	0.79
53	235999	194554	6239222896	6000	307943048	0	215.80	0.80
54	242460	195869	6434453702	6000	313932793	0	215.80	0.80
55	249017	197205	6630816678	6000	319912860	0	215.80	0.80
56	255669	198560	6828323464	6000	325882982	0	215.80	0.80

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 6 " NDT - MSA - ZONA B - NORMALE - RESISTENZA - 3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	5160.00	3800.00	5000.00	0.00
2.00	43.82	43840.00	24620.00	0.00	4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = 28179	La = 0	---
---	---	Pb = -372	Tb = -3559	Lb = 0	---
3.00	43.82	43840.00	24620.00	0.00	-4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = -31695	La = 0	---
---	---	Pb = -5889	Tb = 56315	Lb = 0	---
4.00	37.02	43840.00	24620.00	0.00	4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = 28179	La = 0	---
---	---	Pb = -372	Tb = -3559	Lb = 0	---
5.00	37.02	43840.00	24620.00	0.00	-4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = -31695	La = 0	---
---	---	Pb = -5889	Tb = 56315	Lb = 0	---
6.00	30.22	43840.00	24620.00	0.00	4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = 28179	La = 0	---
---	---	Pb = -372	Tb = -3559	Lb = 0	---
7.00	30.22	43840.00	24620.00	0.00	-4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = -31695	La = 0	---
---	---	Pb = -5889	Tb = 56315	Lb = 0	---

Pagina 18

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	5962	4194	4943011	5002	5729369	0	215.80	0.03
3	6802	4586	9589255	5002	10537372	0	215.80	0.05
4	7679	4996	14660241	5002	15348780	0	215.80	0.06
5	8595	5424	20174425	5002	20163344	0	215.80	0.08
6	9549	5871	26150217	5003	24980799	0	215.80	0.09
7	59311	558	30801840	5016	30009409	0	215.80	0.11
8	109111	3681	25037924	5030	35231169	-0	215.80	0.12
9	110179	4177	33215483	5029	40436318	-0	215.80	0.13
10	111284	4689	41901621	5029	45623953	-0	215.80	0.14
11	109297	41972	78334835	5028	50782450	-0	215.80	0.18
12	110317	58507	142791397	5027	55922457	-0	215.80	0.26
13	112381	59339	208469180	5043	61458777	-0	215.80	0.34
14	163283	58843	273126253	5037	66901448	-0	215.80	0.26
15	214254	57109	320083418	5047	72470241	-0	215.80	0.29
16	216522	57735	385069110	5045	78016513	-0	215.80	0.32
17	218857	58380	450638811	5044	83540380	-0	215.80	0.35
18	218130	102280	551226218	5042	89034127	-0	215.80	0.39
19	217471	112462	672933361	5040	94498757	-0	215.80	0.44
20	220010	113163	792233774	5039	99942368	-0	215.80	0.49
21	271387	100321	904476428	5045	105469816	-0	215.80	0.53
22	322833	111349	1014579105	5051	111069890	-0	215.80	0.57
23	333196	112112	1135699619	5050	116653040	-0	215.80	0.60
24	336769	113104	1252486120	5065	122026615	-0	215.80	0.63
25	337294	160792	1401878357	5046	127164831	-0	215.80	0.50
26	337900	167021	1566195499	5044	132280622	-0	215.80	0.53
27	341720	167777	1729224773	5042	137379129	-0	215.80	0.56
28	345622	168549	1892799390	5041	142460609	-0	215.80	0.58
29	349606	169338	2056924256	5039	147525309	-0	215.80	0.60
30	353672	170144	2221605361	5038	152573467	-0	215.80	0.62
31	357820	170967	2386849620	5036	157605313	-0	215.80	0.64
32	362051	171806	2552664749	5035	162621063	-0	215.80	0.66
33	366364	172663	2719059152	5033	167620924	-0	215.80	0.67
34	382431	173553	2886287986	5033	172617189	-0	215.80	0.69
35	387168	174503	3067228531	5031	177981276	-0	215.80	0.70
36	392000	175472	3249006036	5030	183334531	-0	215.80	0.74
37	396928	176448	3431441704	5028	188667751	-0	215.80	0.75
38	401952	177445	3614549431	5026	193981205	-0	215.80	0.76
39	407071	178461	3798343284	5025	199275131	-0	215.80	0.77
40	412286	179497	3982837651	5023	204549751	-0	215.80	0.78
41	417597	180553	4168047187	5022	209805269	-0	215.80	0.78
42	423003	181629	4353986758	5020	215041872	-0	215.80	0.79
43	428505	182725	4540671404	5019	220259731	-0	215.80	0.79
44	450345	183852	4728313753	5018	225467869	-0	215.80	0.80
45	455947	184984	4916941959	5016	230661399	-0	215.80	0.80
46	461644	186124	5106404564	5015	235839209	-0	215.80	0.83
47	467437	187279	5296612957	5013	240996764	-0	215.80	0.83
48	473326	188453	5487583172	5012	246134225	-0	215.80	0.84
49	479309	189648	5679331081	5010	251251732	-0	215.80	0.84
50	485389	190862	5871872554	5009	256349405	-0	215.80	0.84
51	491563	192097	6065223439	5007	261427358	-0	215.80	0.84
52	497834	193351	6259399556	5006	266485686	-0	215.80	0.84
53	504199	194626	6454416681	5005	271524476	-0	215.80	0.84
54	510660	195920	6650290540	5003	276543802	-0	215.80	0.84
55	517217	197235	6847036800	5002	281543728	-0	215.80	0.84
56	523869	198570	7044671064	5001	286524307	-0	215.80	0.84

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 7 " NDT - MSA - ZONA B - NORMALE - RESISTENZA - 3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	3800.00	5000.00	0.00
2.00	43.82	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
3.00	43.82	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
4.00	37.02	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
5.00	37.02	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
6.00	30.22	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
7.00	30.22	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---

Pagina 20

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	802	4171	4716092	5000	5703595	0	215.80	0.03
3	1642	4560	9131872	5000	10485835	0	215.80	0.04
4	2519	4967	13968850	5000	15271671	0	215.80	0.06
5	3435	5393	19245461	5000	20060980	0	215.80	0.07
6	4389	5836	24980072	5000	24853583	0	215.80	0.08
7	8560	3316	29379246	5000	29661480	0	215.80	0.09
8	12768	5024	27916440	5001	34483302	-0	215.80	0.09
9	13836	5522	33689122	5001	39306521	-0	215.80	0.10
10	14941	6039	39991884	5001	44130830	-0	215.80	0.11
11	14706	38411	70209497	5001	48951626	-0	215.80	0.14
12	17477	58124	131318320	5001	53777809	0	215.80	0.22
13	19541	58723	190553394	5001	58813943	0	215.80	0.28
14	24852	58814	249777254	5001	63826063	0	215.80	0.22
15	30231	58184	299662886	5001	68848872	0	215.80	0.24
16	32499	58825	358969872	5001	73873546	0	215.80	0.27
17	34834	59485	418990036	5001	78899796	0	215.80	0.29
18	35859	97857	509344883	5001	83924289	0	215.80	0.34
19	36951	111860	625006699	5001	88947045	0	215.80	0.39
20	39490	112579	737617402	5001	93970810	0	215.80	0.43
21	45276	106474	846418799	5001	99001253	0	215.80	0.47
22	51130	112319	953927147	5001	104037428	0	215.80	0.50
23	61493	113099	1067592836	5001	109085852	0	215.80	0.53
24	65066	113849	1174680575	5002	113816616	0	215.80	0.55
25	67342	155311	1312167478	5001	118510678	0	215.80	0.44
26	69700	166342	1469788313	5001	123203821	0	215.80	0.47
27	73520	167119	1625321069	5001	127897752	0	215.80	0.50
28	77422	167914	1781623700	5001	132592254	0	215.80	0.52
29	81406	168725	1938706439	5002	137287112	0	215.80	0.55
30	85472	169553	2096579447	5002	141982111	0	215.80	0.57
31	89620	170398	2255252821	5002	146677041	0	215.80	0.59
32	93851	171260	2414736594	5002	151371688	0	215.80	0.60
33	98164	172138	2575040748	5002	156065842	0	215.80	0.62
34	114231	173037	2736399314	5002	160769932	0	215.80	0.63
35	118968	174020	2911396938	5002	165841027	0	215.80	0.65
36	123800	175003	3087397562	5002	170912218	0	215.80	0.69
37	128728	176006	3264359561	5002	175980704	0	215.80	0.70
38	133752	177028	3442294969	5002	181046242	0	215.80	0.71
39	138871	178069	3621215793	5002	186108590	0	215.80	0.72
40	144086	179130	3801134018	5001	191167504	0	215.80	0.72
41	149397	180210	3982061612	5001	196222745	0	215.80	0.73
42	154803	181310	4164010527	5001	201274071	0	215.80	0.74
43	160305	182430	4346992689	5001	206321242	0	215.80	0.74
44	182145	183571	4531201881	5001	211371876	0	215.80	0.75
45	187747	184732	4716730887	5001	216424135	0	215.80	0.75
46	193444	185891	4903325876	5001	221472048	0	215.80	0.78
47	199237	187070	5090959163	5001	226513683	0	215.80	0.79
48	205126	188269	5279642560	5001	231548820	0	215.80	0.79
49	211109	189486	5469387848	5001	236577234	0	215.80	0.79
50	217189	190724	5660206791	5001	241598703	0	215.80	0.79
51	223363	191981	5852111134	5001	246613004	0	215.80	0.79
52	229634	193258	6045112601	5001	251619913	0	215.80	0.79
53	235999	194554	6239222896	5000	256619207	0	215.80	0.79
54	242460	195869	6434453702	5000	261610660	0	215.80	0.80
55	249017	197205	6630816678	5000	266594050	0	215.80	0.80
56	255669	198560	6828323464	5000	271569151	0	215.80	0.80

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 8 " NDT - MSB - ZONA B - NORMALE - RESISTENZA - 3 x 31.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	9060.00	2260.00	8000.00	0.00
2.00	43.82	60460.00	10140.00	0.00	4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = 40562	La = 0	---
---	---	Pb = -3181	Tb = -30422	Lb = 0	---
3.00	43.82	60460.00	10140.00	0.00	-4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = -42010	La = 0	---
---	---	Pb = -5454	Tb = 52150	Lb = 0	---
4.00	37.02	60460.00	10140.00	0.00	4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = 40562	La = 0	---
---	---	Pb = -3181	Tb = -30422	Lb = 0	---
5.00	37.02	60460.00	10140.00	0.00	-4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = -42010	La = 0	---
---	---	Pb = -5454	Tb = 52150	Lb = 0	---
6.00	30.22	60460.00	10140.00	0.00	4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = 40562	La = 0	---
---	---	Pb = -3181	Tb = -30422	Lb = 0	---
7.00	30.22	60460.00	10140.00	0.00	-4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = -42010	La = 0	---
---	---	Pb = -5454	Tb = 52150	Lb = 0	---

Pagina 22

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	9862	2375	2849829	8007	9201361	0	215.80	0.04
3	10702	2474	5389021	8007	16928366	0	215.80	0.06
4	11579	2577	8040375	8008	24660422	0	215.80	0.08
5	12495	2685	10808590	8008	32396969	0	215.80	0.09
6	13449	2798	13698363	8009	40137473	0	215.80	0.10
7	81018	608	16340910	8052	48360606	0	215.80	0.14
8	148625	1889	14981729	8094	57026473	-0	215.80	0.17
9	149692	2010	19279052	8093	65652941	-0	215.80	0.18
10	150798	2134	23696191	8091	74237883	-0	215.80	0.18
11	147624	17395	39424224	8087	82754209	-0	215.80	0.19
12	147457	24109	66574584	8083	91220527	-0	215.80	0.21
13	149521	24440	94606924	8132	100466187	-0	215.80	0.24
14	218230	24109	121982185	8114	109506495	-0	215.80	0.17
15	287008	23349	142283822	8145	118836953	-0	215.80	0.19
16	289275	23496	169878417	8140	128113164	-0	215.80	0.20
17	291611	23647	197576275	8136	137335485	-0	215.80	0.21
18	289697	41606	239533767	8129	146485935	-0	215.80	0.22
19	287851	45674	290022575	8123	155566996	-0	215.80	0.24
20	290390	45838	339368420	8118	164597819	-0	215.80	0.26
21	359574	40469	385935960	8139	173822062	-0	215.80	0.28
22	428827	44923	431726219	8157	183213884	-0	215.80	0.30
23	439190	45101	481870997	8152	192556402	-0	215.80	0.31
24	442763	45471	530568292	8198	201646358	-0	215.80	0.32
25	442100	64883	591995026	8137	210206024	-0	215.80	0.25
26	441520	67313	659398337	8131	218712051	-0	215.80	0.26
27	445340	67489	726111905	8126	227176565	-0	215.80	0.27
28	449242	67669	792887501	8121	235600324	-0	215.80	0.28
29	453226	67853	859724130	8116	243984073	-0	215.80	0.29
30	457292	68042	926621443	8112	252328539	-0	215.80	0.29
31	461440	68235	993579641	8107	260634424	-0	215.80	0.30
32	465671	68432	1060599403	8102	268902410	-0	215.80	0.31
33	469984	68634	1127681813	8098	277133152	-0	215.80	0.31
34	486051	68849	1194930864	8096	285347811	-0	215.80	0.32
35	490788	69069	1267472147	8089	294151426	-0	215.80	0.32
36	495620	69302	1340167445	8086	302929261	-0	215.80	0.34
37	500548	69532	1412918306	8081	311661766	-0	215.80	0.34
38	505572	69768	1485728177	8076	320349793	-0	215.80	0.34
39	510691	70008	1558600566	8071	328994107	-0	215.80	0.35
40	515906	70254	1631539164	8067	337595434	-0	215.80	0.35
41	521217	70504	1704547809	8062	346154458	-0	215.80	0.35
42	526623	70761	1777630459	8057	354671823	-0	215.80	0.35
43	532125	71022	1850791168	8053	363148139	-0	215.80	0.35
44	533965	71295	1924115425	8050	371598964	-0	215.80	0.35
45	539567	71563	1997596790	8045	380014166	-0	215.80	0.35
46	565264	71838	2071196491	8042	388395622	-0	215.80	0.37
47	571057	72114	2144866170	8037	396734138	-0	215.80	0.37
48	576946	72395	2218610493	8033	405030287	-0	215.80	0.37
49	582929	72681	2292434010	8029	413284580	-0	215.80	0.37
50	589009	72973	2366341265	8025	421497494	-0	215.80	0.37
51	595183	73270	2440336788	8021	429669472	-0	215.80	0.36
52	601454	73572	2514425086	8017	437800931	-0	215.80	0.36
53	607819	73880	2588610643	8013	445892256	-0	215.80	0.36
54	614280	74193	2662897908	8009	453943806	-0	215.80	0.36
55	620837	74511	2737291298	8005	461955913	-0	215.80	0.36
56	627489	74834	2811795189	8002	469928883	-0	215.80	0.36

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 9 " NDT - MSB - ZONA B - NORMALE - RESISTENZA - 3 x 31.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	2260.00	8000.00	0.00
2.00	43.82	0.00	10140.00	0.00	4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 10140	Lb = 0	---
3.00	43.82	0.00	10140.00	0.00	-4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = -724	La = 0	---
---	---	Pb = -1136	Tb = 10864	Lb = 0	---
4.00	37.02	0.00	10140.00	0.00	4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 10140	Lb = 0	---
5.00	37.02	0.00	10140.00	0.00	-4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = -724	La = 0	---
---	---	Pb = -1136	Tb = 10864	Lb = 0	---
6.00	30.22	0.00	10140.00	0.00	4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 10140	Lb = 0	---
7.00	30.22	0.00	10140.00	0.00	-4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = -724	La = 0	---
---	---	Pb = -1136	Tb = 10864	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm²]	% Uso
2	802	2353	2676923	8000	9125748	0	215.80	0.03
3	1642	2450	5041081	8000	16777325	0	215.80	0.05
4	2519	2551	7515340	8000	24434652	0	215.80	0.07
5	3435	2657	10104429	8000	32097531	-0	215.80	0.09
6	4389	2768	12813044	8000	39765677	0	215.80	0.10
7	7748	1655	14886621	8000	47453291	0	215.80	0.11
8	11146	2280	14458059	8001	55158639	-0	215.80	0.12
9	12214	2404	16931870	8001	62866693	-0	215.80	0.12
10	13319	2533	19543517	8001	70576970	-0	215.80	0.13
11	13894	15779	31933707	8001	78286151	-0	215.80	0.14
12	17477	23809	56971704	8001	86007985	0	215.80	0.16
13	19541	23959	81132764	8002	94065697	0	215.80	0.18
14	24041	23899	105183291	8001	102081535	0	215.80	0.12
15	28609	23538	125274447	8001	110111305	0	215.80	0.13
16	30876	23698	149142423	8002	118144374	0	215.80	0.14
17	33212	23863	173197560	8002	126180268	0	215.80	0.15
18	35047	39557	209648199	8002	134216514	0	215.80	0.16
19	36951	45211	256420069	8002	142252844	0	215.80	0.18
20	39490	45390	301818953	8002	150290787	0	215.80	0.20
21	44465	42755	345518038	8002	158336976	0	215.80	0.21
22	49508	45040	388551177	8002	166390163	0	215.80	0.22
23	59871	45235	433992402	8002	174463196	0	215.80	0.24
24	63444	45423	476694743	8003	182027081	0	215.80	0.24
25	66531	62379	531829123	8002	189535680	0	215.80	0.19
26	69700	66799	595150102	8002	197044624	0	215.80	0.20
27	73520	66993	657493967	8002	204554830	0	215.80	0.22
28	77422	67191	720035316	8002	212065950	0	215.80	0.22
29	81406	67393	782775888	8002	219577641	0	215.80	0.23
30	85472	67599	845717397	8002	227089560	0	215.80	0.24
31	89620	67810	908861536	8002	234601368	0	215.80	0.25
32	93851	68025	972209975	8002	242112725	0	215.80	0.25
33	98164	68244	1035764371	8002	249623297	0	215.80	0.26
34	114231	68468	1099615390	8003	257149758	0	215.80	0.27
35	118968	68713	1168719954	8003	265263424	0	215.80	0.27
36	123800	68959	1238078080	8003	273377247	0	215.80	0.29
37	128728	69208	1307670353	8003	281486744	0	215.80	0.29
38	133752	69463	1377498687	8002	289591528	0	215.80	0.29
39	138871	69722	1447564988	8002	297691211	0	215.80	0.30
40	144086	69987	1517871163	8002	305785405	0	215.80	0.30
41	149397	70256	1588419114	8002	313873724	0	215.80	0.30
42	154803	70530	1659210745	8002	321955782	0	215.80	0.30
43	160305	70809	1730247954	8002	330031196	0	215.80	0.31
44	182145	71094	1801604495	8002	338112151	0	215.80	0.31
45	187747	71383	1873311241	8002	346195708	0	215.80	0.31
46	193444	71672	1945270473	8002	354272318	0	215.80	0.32
47	199237	71965	2017468473	8002	362338887	0	215.80	0.32
48	205126	72264	2089907133	8002	370395063	0	215.80	0.32
49	211109	72567	2162588339	8001	378440488	0	215.80	0.32
50	217189	72875	2235513974	8001	386474807	0	215.80	0.32
51	223363	73188	2308685921	8001	394497661	0	215.80	0.32
52	229634	73506	2382106060	8001	402508693	0	215.80	0.33
53	235999	73829	2455776268	8001	410507544	0	215.80	0.33
54	242460	74157	2529698416	8000	418493857	0	215.80	0.32
55	249017	74489	2603874376	8000	426467273	0	215.80	0.32
56	255669	74827	2678306014	8000	434427432	0	215.80	0.32

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 10 " NDT - MSA - ZONA A - NORMALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	5510.00	3800.00	6000.00	0.00
2.00	43.82	46220.00	21760.00	0.00	4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = 30008	La = 0	---
---	---	Pb = -863	Tb = -8248	Lb = 0	---
3.00	43.82	46220.00	21760.00	0.00	-4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = -33116	La = 0	---
---	---	Pb = -5739	Tb = 54876	Lb = 0	---
4.00	37.02	46220.00	21760.00	0.00	4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = 30008	La = 0	---
---	---	Pb = -863	Tb = -8248	Lb = 0	---
5.00	37.02	46220.00	21760.00	0.00	-4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = -33116	La = 0	---
---	---	Pb = -5739	Tb = 54876	Lb = 0	---
6.00	30.22	46220.00	21760.00	0.00	4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = 30008	La = 0	---
---	---	Pb = -863	Tb = -8248	Lb = 0	---
7.00	30.22	46220.00	21760.00	0.00	-4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = -33116	La = 0	---
---	---	Pb = -5739	Tb = 54876	Lb = 0	---

Pagina 26

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	6312	4194	4935899	6002	6877534	0	215.80	0.03
3	7152	4586	9572077	6003	12649425	0	215.80	0.05
4	8029	4996	14629909	6003	18425386	0	215.80	0.07
5	8945	5424	20127720	6003	24205106	0	215.80	0.08
6	9899	5871	26083787	6003	29988262	0	215.80	0.10
7	62211	1253	31089086	6022	36039604	0	215.80	0.12
8	114561	4092	27106552	6040	42336370	-0	215.80	0.14
9	115629	4587	35497910	6039	48611912	-0	215.80	0.15
10	116734	5099	44392074	6039	54865088	-0	215.80	0.16
11	114577	38111	77854418	6037	61081088	-0	215.80	0.19
12	115427	52788	136134262	6036	67272851	-0	215.80	0.26
13	117491	53619	195813585	6057	73954400	-0	215.80	0.33
14	170943	53242	254597547	6049	80518490	-0	215.80	0.25
15	224464	51799	297952313	6062	87242898	-0	215.80	0.28
16	226731	52425	357303585	6060	93938457	-0	215.80	0.30
17	229067	53069	417234759	6058	100605323	-0	215.80	0.33
18	228170	91945	508171855	6056	107233673	-0	215.80	0.37
19	227341	101021	617833207	6053	113824800	-0	215.80	0.41
20	229880	101722	725435877	6051	120389049	-0	215.80	0.45
21	283807	90470	826998834	6060	127059931	-0	215.80	0.49
22	337803	100317	926861657	6068	133823195	-0	215.80	0.53
23	348166	101079	1036533637	6066	140563925	-0	215.80	0.56
24	351739	102069	1142493929	6087	147061443	-0	215.80	0.58
25	352094	144268	1277079616	6060	153261159	-0	215.80	0.46
26	352530	149858	1424914764	6058	159432187	-0	215.80	0.49
27	356350	150613	1571677933	6056	165581092	-0	215.80	0.51
28	360252	151385	1718990808	6054	171708216	-0	215.80	0.53
29	364236	152174	1866859232	6052	177813893	-0	215.80	0.55
30	368302	152980	2015290060	6050	183898443	-0	215.80	0.57
31	372450	153802	2164291020	6048	189962174	-0	215.80	0.59
32	376681	154641	2313870589	6046	196005380	-0	215.80	0.60
33	380994	155498	2464037887	6044	202028339	-0	215.80	0.61
34	397061	156387	2615026360	6043	208045951	-0	215.80	0.63
35	401798	157338	2778467835	6040	214504998	-0	215.80	0.64
36	406630	158306	2942750437	6039	220950206	-0	215.80	0.68
37	411558	159283	3107706984	6037	227370047	-0	215.80	0.69
38	416582	160279	3273352089	6035	233764886	-0	215.80	0.69
39	421701	161295	3439700504	6033	240135047	-0	215.80	0.70
40	426916	162332	3606767280	6031	246480831	-0	215.80	0.71
41	432227	163388	3774567709	6029	252802519	-0	215.80	0.71
42	437633	164464	3943117280	6027	259100371	-0	215.80	0.72
43	443135	165560	4112431635	6025	265374623	-0	215.80	0.72
44	464975	166687	4282706021	6023	271636214	-0	215.80	0.73
45	470577	167819	4453965205	6021	277879048	-0	215.80	0.73
46	476274	168960	4626077029	6019	284102158	-0	215.80	0.76
47	482067	170114	4798959869	6017	290299906	-0	215.80	0.76
48	487956	171289	4972630287	6015	296472519	-0	215.80	0.76
49	493939	172484	5147104681	6013	302620188	-0	215.80	0.76
50	500019	173699	5322399441	6012	308743091	-0	215.80	0.76
51	506193	174934	5498530932	6010	314841386	-0	215.80	0.76
52	512464	176189	5675515486	6008	320915216	-0	215.80	0.76
53	518829	177464	5853369389	6006	326964709	-0	215.80	0.76
54	525290	178759	6032108875	6004	332989976	-0	215.80	0.76
55	531847	180074	6211750118	6003	338991118	-0	215.80	0.76
56	538499	181409	6392309228	6001	344968220	-0	215.80	0.76

Pagina 27

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 11 " NDT - MSA - ZONA A - NORMALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	3800.00	6000.00	0.00
2.00	43.82	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
3.00	43.82	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
4.00	37.02	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
5.00	37.02	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
6.00	30.22	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
7.00	30.22	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---

Pagina 28

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	4171	4713344	6000	6844313	0	215.80	0.03
3	1642	4560	9123512	6000	12583000	-0	215.80	0.05
4	2519	4967	13951895	6000	18326002	-0	215.80	0.06
5	3435	5392	19216809	6000	24073171	0	215.80	0.08
6	4389	5836	24936503	6000	29824291	0	215.80	0.09
7	8399	3662	29525388	6000	35593024	0	215.80	0.10
8	12448	5227	28984676	6001	41377792	-0	215.80	0.10
9	13516	5725	34894842	6001	47164307	-0	215.80	0.11
10	14621	6242	41331402	6001	52952200	-0	215.80	0.12
11	14545	34915	68968733	6001	58736549	-0	215.80	0.15
12	17477	52403	123977097	6001	64527959	0	215.80	0.21
13	19541	53001	177443783	6001	70571305	0	215.80	0.27
14	24692	53152	230958183	6001	76585322	0	215.80	0.20
15	29911	52667	276288821	6001	82611696	0	215.80	0.23
16	32178	53307	330021080	6001	88640355	0	215.80	0.25
17	34514	53967	384460580	6001	94670950	0	215.80	0.27
18	35698	87961	465793978	6001	100699905	0	215.80	0.31
19	36951	100419	569579661	6001	106727201	0	215.80	0.36
20	39490	101137	670751996	6001	112755706	0	215.80	0.39
21	45116	95827	768640440	6001	118791866	0	215.80	0.43
22	50810	101081	865471240	6002	124834580	0	215.80	0.46
23	61173	101861	967838451	6002	130892030	0	215.80	0.48
24	64746	102610	1064348210	6002	136568156	0	215.80	0.51
25	67182	139342	1187799784	6002	142200748	0	215.80	0.40
26	69700	149179	1329131591	6002	147832507	0	215.80	0.43
27	73520	149957	1468701722	6002	153465212	0	215.80	0.45
28	77422	150751	1609037865	6002	159098602	0	215.80	0.48
29	81406	151562	1750150794	6002	164732419	0	215.80	0.50
30	85472	152390	1892051217	6002	170366407	0	215.80	0.51
31	89620	153235	2034749779	6002	176000310	0	215.80	0.53
32	93851	154097	2178257067	6002	181633875	0	215.80	0.54
33	98164	154976	2322583621	6002	187266849	0	215.80	0.56
34	114231	155874	2467942294	6002	192911745	0	215.80	0.57
35	118968	156857	2625684464	6002	198997046	0	215.80	0.58
36	123800	157841	2784427140	6002	205082463	0	215.80	0.62
37	128728	158843	2944134638	6002	211164634	0	215.80	0.63
38	133752	159865	3104819724	6002	217243269	0	215.80	0.64
39	138871	160906	3266495133	6002	223318075	0	215.80	0.65
40	144086	161967	3429173581	6002	229388762	0	215.80	0.65
41	149397	163048	3592867762	6002	235455041	0	215.80	0.66
42	154803	164148	3757590351	6002	241516623	0	215.80	0.67
43	160305	165268	3923353999	6002	247573219	0	215.80	0.67
44	182145	166409	4090335713	6002	253633972	0	215.80	0.68
45	187747	167569	4258622428	6001	259696673	0	215.80	0.68
46	193444	168729	4427983795	6001	265754161	0	215.80	0.71
47	199237	169908	4598396644	6001	271804117	0	215.80	0.71
48	205126	171107	4769873497	6001	277846274	0	215.80	0.71
49	211109	172325	4942426844	6001	283880366	0	215.80	0.72
50	217189	173562	5116069157	6001	289906124	0	215.80	0.72
51	223363	174820	5290812886	6001	295923281	0	215.80	0.72
52	229634	176097	5466670459	6001	301931569	0	215.80	0.72
53	235999	177393	5643654282	6000	307930719	0	215.80	0.72
54	242460	178709	5821776739	6000	313920461	0	215.80	0.72
55	249017	180044	6001050188	6000	319900527	0	215.80	0.72
56	255669	181400	6181486966	6000	325870649	0	215.80	0.72

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 12 " NDT - MSA - ZONA B - NORMALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	5430.00	3800.00	6000.00	0.00
2.00	43.82	45620.00	21760.00	0.00	4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = 29598	La = 0	---
---	---	Pb = -820	Tb = -7838	Lb = 0	---
3.00	43.82	45620.00	21760.00	0.00	-4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = -32706	La = 0	---
---	---	Pb = -5696	Tb = 54466	Lb = 0	---
4.00	37.02	45620.00	21760.00	0.00	4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = 29598	La = 0	---
---	---	Pb = -820	Tb = -7838	Lb = 0	---
5.00	37.02	45620.00	21760.00	0.00	-4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = -32706	La = 0	---
---	---	Pb = -5696	Tb = 54466	Lb = 0	---
6.00	30.22	45620.00	21760.00	0.00	4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = 29598	La = 0	---
---	---	Pb = -820	Tb = -7838	Lb = 0	---
7.00	30.22	45620.00	21760.00	0.00	-4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = -32706	La = 0	---
---	---	Pb = -5696	Tb = 54466	Lb = 0	---

Pagina 30

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	6232	4194	4932142	6002	6877003	0	215.80	0.03
3	7072	4585	9564499	6003	12648364	0	215.80	0.05
4	7949	4995	14618444	6003	18423797	-0	215.80	0.07
5	8865	5424	20112302	6003	24202995	-0	215.80	0.08
6	9819	5870	26064350	6003	29985635	0	215.80	0.10
7	61488	1247	31036058	6021	36032713	0	215.80	0.12
8	113195	4081	26990747	6039	42321757	-0	215.80	0.14
9	114263	4577	35319717	6038	48589901	-0	215.80	0.15
10	115368	5088	44151990	6038	54836018	-0	215.80	0.16
11	113254	38101	77554919	6036	61045515	-0	215.80	0.19
12	114147	52778	135777719	6035	67231293	-0	215.80	0.26
13	116211	53604	195362019	6056	73903274	-0	215.80	0.32
14	169020	53228	254060695	6048	80459061	-0	215.80	0.25
15	221898	51782	297303929	6060	87172890	-0	215.80	0.27
16	224166	52408	356545681	6059	93858330	-0	215.80	0.30
17	226501	53052	416369510	6057	100515534	-0	215.80	0.33
18	225647	91929	507203289	6054	107134821	-0	215.80	0.37
19	224861	101006	616765464	6052	113717461	-0	215.80	0.41
20	227400	101707	724271580	6050	120273643	-0	215.80	0.45
21	280685	90453	825716998	6059	126934928	-0	215.80	0.49
22	334037	100297	925442956	6066	133687267	-0	215.80	0.52
23	344400	101060	1034982237	6065	140417634	-0	215.80	0.55
24	347973	102044	1140779595	6085	146902695	-0	215.80	0.58
25	348371	144251	1275251206	6059	153093845	-0	215.80	0.46
26	348850	149841	1422976704	6056	159256755	-0	215.80	0.48
27	352670	150597	1569633507	6054	165397894	-0	215.80	0.51
28	356572	151370	1716843377	6052	171517592	-0	215.80	0.53
29	360556	152159	1864612213	6050	177616175	-0	215.80	0.55
30	364622	152965	2012946911	6048	183693955	-0	215.80	0.57
31	368770	153789	2161855227	6047	189751230	-0	215.80	0.58
32	373001	154629	2311345657	6045	195788286	-0	215.80	0.60
33	377314	155485	2461427328	6043	201805394	-0	215.80	0.61
34	393381	156375	2612333330	6042	207817416	-0	215.80	0.63
35	398118	157326	2775691421	6040	214270861	-0	215.80	0.64
36	402950	158295	2939893081	6038	220710681	-0	215.80	0.68
37	407878	159272	3104773041	6036	227125468	-0	215.80	0.69
38	412902	160269	3270345872	6034	233515578	-0	215.80	0.69
39	418021	161286	3436626283	6032	239881325	-0	215.80	0.70
40	423236	162323	3603629278	6030	246223002	-0	215.80	0.71
41	428547	163380	3771370098	6028	252540879	-0	215.80	0.71
42	433953	164457	3939864181	6026	258835207	-0	215.80	0.72
43	439455	165554	4109127113	6024	265106217	-0	215.80	0.72
44	461295	166681	4279353836	6023	271364817	-0	215.80	0.73
45	466897	167813	4450570040	6021	277604970	-0	215.80	0.73
46	472594	168954	4622642137	6019	283825617	-0	215.80	0.76
47	478387	170110	4795489341	6017	290021170	-0	215.80	0.76
48	484276	171285	4969128145	6015	296191846	-0	215.80	0.76
49	490259	172481	5143574883	6013	302337831	-0	215.80	0.76
50	496339	173696	5318845879	6011	308459294	-0	215.80	0.76
51	502513	174932	5494957432	6009	314556387	-0	215.80	0.76
52	508784	176187	5671925811	6008	320629247	-0	215.80	0.76
53	515149	177463	5849767238	6006	326677995	-0	215.80	0.76
54	521610	178758	6028497886	6004	332702738	-0	215.80	0.76
55	528167	180074	6208133866	6002	338703569	-0	215.80	0.76
56	534819	181409	6388691227	6001	344680567	-0	215.80	0.76

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 13 " NDT - MSA - ZONA B - NORMALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	3800.00	6000.00	0.00
2.00	43.82	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
3.00	43.82	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
4.00	37.02	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
5.00	37.02	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
6.00	30.22	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
7.00	30.22	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---

Pagina 32

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	4171	4713344	6000	6844313	0	215.80	0.03
3	1642	4560	9123512	6000	12583000	-0	215.80	0.05
4	2519	4967	13951895	6000	18326002	-0	215.80	0.06
5	3435	5392	19216809	6000	24073171	0	215.80	0.08
6	4389	5836	24936503	6000	29824291	0	215.80	0.09
7	8399	3662	29525388	6000	35593024	0	215.80	0.10
8	12448	5227	28984676	6001	41377792	-0	215.80	0.10
9	13516	5725	34894842	6001	47164307	-0	215.80	0.11
10	14621	6242	41331402	6001	52952200	-0	215.80	0.12
11	14545	34915	68968733	6001	58736549	-0	215.80	0.15
12	17477	52403	123977097	6001	64527959	0	215.80	0.21
13	19541	53001	177443783	6001	70571305	0	215.80	0.27
14	24692	53152	230958183	6001	76585322	0	215.80	0.20
15	29911	52667	276288821	6001	82611696	0	215.80	0.23
16	32178	53307	330021080	6001	88640355	0	215.80	0.25
17	34514	53967	384460580	6001	94670950	0	215.80	0.27
18	35698	87961	465793978	6001	100699905	0	215.80	0.31
19	36951	100419	569579661	6001	106727201	0	215.80	0.36
20	39490	101137	670751996	6001	112755706	0	215.80	0.39
21	45116	95827	768640440	6001	118791866	0	215.80	0.43
22	50810	101081	865471240	6002	124834580	0	215.80	0.46
23	61173	101861	967838451	6002	130892030	0	215.80	0.48
24	64746	102610	1064348210	6002	136568156	0	215.80	0.51
25	67182	139342	1187799784	6002	142200748	0	215.80	0.40
26	69700	149179	1329131591	6002	147832507	0	215.80	0.43
27	73520	149957	1468701722	6002	153465212	0	215.80	0.45
28	77422	150751	1609037865	6002	159098602	0	215.80	0.48
29	81406	151562	1750150794	6002	164732419	0	215.80	0.50
30	85472	152390	1892051217	6002	170366407	0	215.80	0.51
31	89620	153235	2034749779	6002	176000310	0	215.80	0.53
32	93851	154097	2178257067	6002	181633875	0	215.80	0.54
33	98164	154976	2322583621	6002	187266849	0	215.80	0.56
34	114231	155874	2467942294	6002	192911745	0	215.80	0.57
35	118968	156857	2625684464	6002	198997046	0	215.80	0.58
36	123800	157841	2784427140	6002	205082463	0	215.80	0.62
37	128728	158843	2944134638	6002	211164634	0	215.80	0.63
38	133752	159865	3104819724	6002	217243269	0	215.80	0.64
39	138871	160906	3266495133	6002	223318075	0	215.80	0.65
40	144086	161967	3429173581	6002	229388762	0	215.80	0.65
41	149397	163048	3592867762	6002	235455041	0	215.80	0.66
42	154803	164148	3757590351	6002	241516623	0	215.80	0.67
43	160305	165268	3923353999	6002	247573219	0	215.80	0.67
44	182145	166409	4090335713	6002	253633972	0	215.80	0.68
45	187747	167569	4258622428	6001	259696673	0	215.80	0.68
46	193444	168729	4427983795	6001	265754161	0	215.80	0.71
47	199237	169908	4598396644	6001	271804117	0	215.80	0.71
48	205126	171107	4769873497	6001	277846274	0	215.80	0.71
49	211109	172325	4942426844	6001	283880366	0	215.80	0.72
50	217189	173562	5116069157	6001	289906124	0	215.80	0.72
51	223363	174820	5290812886	6001	295923281	0	215.80	0.72
52	229634	176097	5466670459	6001	301931569	0	215.80	0.72
53	235999	177393	5643654282	6000	307930719	0	215.80	0.72
54	242460	178709	5821776739	6000	313920461	0	215.80	0.72
55	249017	180044	6001050188	6000	319900527	0	215.80	0.72
56	255669	181400	6181486966	6000	325870649	0	215.80	0.72

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 14 " NDT - MSB - ZONA B - NORMALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	9360.00	2260.00	8000.00	0.00
2.00	43.82	59930.00	8120.00	0.00	4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = 40344	La = 0	---
---	---	Pb = -3370	Tb = -32224	Lb = 0	---
3.00	43.82	59930.00	8120.00	0.00	-4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = -41504	La = 0	---
---	---	Pb = -5189	Tb = 49624	Lb = 0	---
4.00	37.02	59930.00	8120.00	0.00	4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = 40344	La = 0	---
---	---	Pb = -3370	Tb = -32224	Lb = 0	---
5.00	37.02	59930.00	8120.00	0.00	-4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = -41504	La = 0	---
---	---	Pb = -5189	Tb = 49624	Lb = 0	---
6.00	30.22	59930.00	8120.00	0.00	4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = 40344	La = 0	---
---	---	Pb = -3370	Tb = -32224	Lb = 0	---
7.00	30.22	59930.00	8120.00	0.00	-4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = -41504	La = 0	---
---	---	Pb = -5189	Tb = 49624	Lb = 0	---

Pagina 34

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	10162	2372	2825118	8007	9203768	0	215.80	0.04
3	11002	2470	5337147	8007	16933138	0	215.80	0.06
4	11879	2573	7958781	8008	24667498	-0	215.80	0.08
5	12795	2681	10694613	8008	32406275	-0	215.80	0.09
6	13749	2793	13549234	8009	40148924	-0	215.80	0.10
7	80750	1066	16265216	8052	48369549	-0	215.80	0.14
8	147789	2118	15834286	8093	57028574	-0	215.80	0.17
9	148857	2239	19954203	8092	65648451	-0	215.80	0.18
10	149962	2364	24191916	8090	74227074	-0	215.80	0.18
11	146826	14611	37507802	8086	82737620	-0	215.80	0.19
12	146697	20015	59993770	8082	91198658	-0	215.80	0.21
13	148761	20313	83285954	8131	100435835	-0	215.80	0.22
14	216902	20076	106060936	8112	109467798	-0	215.80	0.16
15	285112	19500	123226656	8143	118786988	-0	215.80	0.18
16	287380	19649	146260427	8138	128052402	-0	215.80	0.19
17	289715	19803	169405755	8134	137264395	-0	215.80	0.19
18	287839	34217	203998304	8127	146405172	-0	215.80	0.20
19	286031	37510	245452000	8121	155477189	-0	215.80	0.22
20	288570	37676	286022312	8116	164499403	-0	215.80	0.23
21	357186	33414	324421707	8137	173713040	-0	215.80	0.25
22	425871	37020	362251630	8155	183092514	-0	215.80	0.27
23	436234	37201	403604434	8150	192423316	-0	215.80	0.28
24	439807	37538	443788354	8195	201499180	-0	215.80	0.28
25	439183	53115	494150357	8135	210049164	-0	215.80	0.22
26	438640	55098	549329122	8129	218546029	-0	215.80	0.23
27	442460	55277	603988148	8124	227001774	-0	215.80	0.23
28	446362	55461	658730233	8120	235417150	-0	215.80	0.24
29	450346	55648	713555365	8115	243792891	-0	215.80	0.25
30	454412	55840	768464041	8110	252129715	-0	215.80	0.25
31	458560	56036	823457197	8105	260428315	-0	215.80	0.26
32	462791	56236	878536146	8101	268689363	-0	215.80	0.26
33	467104	56441	933702521	8096	276913505	-0	215.80	0.27
34	483171	56658	989043082	8094	285121865	-0	215.80	0.27
35	487908	56883	1048782166	8088	293919168	-0	215.80	0.27
36	492740	57118	1108691352	8085	302690932	-0	215.80	0.29
37	497668	57352	1168690551	8080	311417747	-0	215.80	0.29
38	502692	57590	1228783471	8075	320100452	-0	215.80	0.29
39	507811	57834	1288973860	8070	328739801	-0	215.80	0.29
40	513026	58083	1349265611	8066	337336508	-0	215.80	0.30
41	518337	58338	1409662728	8061	345891248	-0	215.80	0.30
42	523743	58597	1470169310	8057	354404657	-0	215.80	0.30
43	529245	58862	1530789527	8052	362877331	-0	215.80	0.30
44	551085	59137	1591594950	8050	371324802	-0	215.80	0.30
45	556687	59409	1652581609	8045	379736998	-0	215.80	0.30
46	562384	59686	1713716788	8041	388115695	-0	215.80	0.31
47	568177	59965	1774961477	8037	396451752	-0	215.80	0.31
48	574066	60250	1836320328	8032	404745733	-0	215.80	0.31
49	580049	60540	1897797891	8028	412998142	-0	215.80	0.31
50	586129	60834	1959398711	8024	421209445	-0	215.80	0.31
51	592303	61135	2021127317	8020	429380081	-0	215.80	0.31
52	598574	61440	2082988217	8016	437510456	-0	215.80	0.31
53	604939	61750	2144985897	8013	445600950	-0	215.80	0.31
54	611400	62066	2207124813	8009	453651915	-0	215.80	0.31
55	617957	62387	2269409394	8005	461663674	-0	215.80	0.31
56	624609	62712	2331844031	8002	469636530	-0	215.80	0.31

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 15 " NDT - MSB - ZONA B - NORMALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: normale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	2260.00	8000.00	0.00
2.00	43.82	0.00	8120.00	0.00	4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 8120	Lb = 0	---
3.00	43.82	0.00	8120.00	0.00	-4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = -580	La = 0	---
---	---	Pb = -910	Tb = 8700	Lb = 0	---
4.00	37.02	0.00	8120.00	0.00	4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 8120	Lb = 0	---
5.00	37.02	0.00	8120.00	0.00	-4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = -580	La = 0	---
---	---	Pb = -910	Tb = 8700	Lb = 0	---
6.00	30.22	0.00	8120.00	0.00	4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 8120	Lb = 0	---
7.00	30.22	0.00	8120.00	0.00	-4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = -580	La = 0	---
---	---	Pb = -910	Tb = 8700	Lb = 0	---

Pagina 36

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	802	2352	2674986	8000	9125747	0	215.80	0.03
3	1642	2449	5035188	8000	16777324	-0	215.80	0.05
4	2519	2551	7503388	8000	24434649	0	215.80	0.07
5	3435	2657	10084232	8000	32097526	0	215.80	0.09
6	4389	2768	12782332	8000	39765669	0	215.80	0.10
7	7635	1899	14994265	8000	47452583	0	215.80	0.11
8	10920	2424	15225652	8001	55156598	-0	215.80	0.12
9	11987	2548	17805228	8001	62863384	-0	215.80	0.12
10	13093	2677	20520014	8001	70572459	-0	215.80	0.13
11	13781	13311	31092101	8001	78281071	-0	215.80	0.14
12	17477	19768	51821448	8001	86002896	0	215.80	0.15
13	19541	19918	71908449	8002	94060594	0	215.80	0.17
14	23928	19900	91930807	8001	102075937	0	215.80	0.12
15	28382	19642	108813392	8001	110104769	0	215.80	0.12
16	30650	19801	128752448	8001	118136945	0	215.80	0.13
17	32986	19966	148874338	8002	126171988	0	215.80	0.14
18	34934	32567	178957333	8002	134207824	0	215.80	0.15
19	36951	37130	217341261	8002	142244143	0	215.80	0.16
20	39490	37309	254661395	8002	150282073	0	215.80	0.17
21	44352	35236	290656614	8002	158327911	0	215.80	0.19
22	49282	37102	326155728	8002	166380444	0	215.80	0.19
23	59645	37297	363624164	8002	174452858	0	215.80	0.20
24	63218	37485	398864288	8003	182015999	0	215.80	0.21
25	66418	51100	444088834	8002	189524333	0	215.80	0.17
26	69700	54677	495905079	8002	197033265	0	215.80	0.18
27	73520	54871	546974745	8002	204543459	0	215.80	0.18
28	77422	55069	598239166	8002	212054568	0	215.80	0.19
29	81406	55271	649700462	8002	219566247	0	215.80	0.20
30	85472	55478	701360734	8002	227078155	0	215.80	0.20
31	89620	55688	753222060	8002	234589952	0	215.80	0.21
32	93851	55903	805286504	8002	242101299	0	215.80	0.21
33	98164	56122	857556114	8002	249611860	0	215.80	0.22
34	114231	56346	910106611	8003	257138310	0	215.80	0.22
35	118968	56591	967023860	8003	265251964	0	215.80	0.23
36	123800	56837	1024192909	8003	273365775	0	215.80	0.24
37	128728	57086	1081598536	8003	281475261	0	215.80	0.24
38	133752	57341	1139243169	8002	289580034	0	215.80	0.25
39	138871	57601	1197129233	8002	297679706	0	215.80	0.25
40	144086	57865	1255259148	8002	305773890	0	215.80	0.25
41	149397	58134	1313635329	8002	313862200	0	215.80	0.25
42	154803	58408	1372260191	8002	321944250	0	215.80	0.26
43	160305	58687	1431136144	8002	330019655	0	215.80	0.26
44	182145	58972	1490325101	8002	338100602	0	215.80	0.26
45	187747	59261	1549853793	8002	346184152	0	215.80	0.26
46	193444	59550	1609641091	8002	354260754	0	215.80	0.27
47	199237	59844	1669676461	8002	362327317	0	215.80	0.27
48	205126	60143	1729962299	8002	370383487	0	215.80	0.27
49	211109	60446	1790500991	8001	378428907	0	215.80	0.27
50	217189	60754	1851294921	8001	386463221	0	215.80	0.27
51	223363	61068	1912346469	8001	394486071	0	215.80	0.27
52	229634	61386	1973658011	8001	402497099	0	215.80	0.27
53	235999	61709	2035231921	8001	410495949	0	215.80	0.27
54	242460	62036	2097070566	8000	418482260	0	215.80	0.27
55	249017	62369	2159176309	8000	426455675	0	215.80	0.27
56	255669	62707	2221551511	8000	434415834	0	215.80	0.27

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 16 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2680.00	1900.00	29500.00	0.00
2.00	43.82	44590.00	24620.00	0.00	4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = 28691	La = 0	---
---	---	Pb = -426	Tb = -4071	Lb = 0	---
3.00	43.82	44590.00	24620.00	0.00	-4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = -32207	La = 0	---
---	---	Pb = -5943	Tb = 56827	Lb = 0	---
4.00	37.02	44590.00	24620.00	0.00	4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = 28691	La = 0	---
---	---	Pb = -426	Tb = -4071	Lb = 0	---
5.00	37.02	44590.00	24620.00	0.00	-4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = -32207	La = 0	---
---	---	Pb = -5943	Tb = 56827	Lb = 0	---
6.00	30.22	38990.00	21280.00	54500.00	4.75
---	---	---	Ft = 63513	Fp = 10192	---
---	---	Pa = 40015	Ta = 14210	La = 47231	---
---	---	Pb = -1025	Tb = 7070	Lb = 7269	---
7.00	30.22	44590.00	24620.00	0.00	-4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = -32207	La = 0	---
---	---	Pb = -5943	Tb = 56827	Lb = 0	---

Pagina 38

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	3482	2283	2658662	29509	33760348	0	345.28	0.07
3	4322	2675	5369863	29511	62092671	-0	345.28	0.12
4	5199	3085	8503705	29513	90453964	-0	345.28	0.16
5	6115	3513	12078747	29515	118843445	-0	345.28	0.19
6	7069	3959	16113500	29517	147260135	0	345.28	0.22
7	57635	-1365	18709581	29641	177365004	0	345.28	0.25
8	108238	1748	10783153	29763	209048901	0	345.28	0.28
9	109306	2244	16804475	29761	240641991	-0	345.28	0.30
10	110411	2756	23341052	29758	272138544	0	345.28	0.31
11	108371	40041	57637821	29746	303442480	0	345.28	0.33
12	109337	56577	119963300	29741	334641052	0	345.28	0.35
13	111401	57391	183235005	29887	368804892	0	345.28	0.38
14	163107	56906	245605459	29836	402279170	0	345.28	0.26
15	214881	55164	290194483	29929	436936948	-0	345.28	0.27
16	217149	55792	352819407	29919	471471186	0	345.28	0.29
17	219484	56437	416035576	29909	505882477	0	345.28	0.30
18	218704	100339	514281558	29892	540098356	0	345.28	0.32
19	217991	110522	633658919	29875	574125193	0	345.28	0.34
20	220530	111224	750635986	29863	608037854	0	345.28	0.36
21	270210	85405	851531281	32252	644384885	0	345.28	0.38
22	319959	94908	934278334	77211	731368280	138483131	345.28	0.41
23	330322	95673	1038477074	77202	813602228	138483131	345.28	0.43
24	333895	96647	1139311799	77349	892017792	138483131	345.28	0.45
25	334067	150941	1277606372	82210	971784584	138483131	345.28	0.35
26	334320	161728	1437616357	84414	1054972809	143464000	345.28	0.37
27	338140	162486	1595232251	84400	1137466423	143464000	345.28	0.39
28	342042	163260	1753412777	84387	1219832055	143464000	345.28	0.41
29	346026	164051	1912162740	84374	1302066192	143464000	345.28	0.42
30	350092	164858	2071488016	84360	1384165765	143464000	345.28	0.43
31	354240	165683	2231395398	84347	1466128073	143464000	345.28	0.44
32	358471	166524	2391892471	84334	1547950733	143464000	345.28	0.46
33	362784	167382	2552987504	84321	1629631624	143464000	345.28	0.46
34	378851	168273	2714923289	84317	1711304228	143464000	345.28	0.47
35	383588	169226	2890184346	84298	1799155763	143464000	345.28	0.48
36	388420	170196	3066295081	84289	1886916102	143464000	345.28	0.51
37	393348	171174	3243087717	84273	1974479043	143464000	345.28	0.52
38	398372	172172	3420575901	84258	2061843455	143464000	345.28	0.52
39	403491	173191	3598773471	84243	2149008194	143464000	345.28	0.53
40	408706	174229	3777694600	84228	2235972206	143464000	345.28	0.53
41	414017	175287	3957353732	84213	2322734511	143464000	345.28	0.54
42	419423	176365	4137765538	84198	2409294175	143464000	345.28	0.54
43	424925	177462	4318944870	84184	2495650300	143464000	345.28	0.54
44	446765	178590	4501095163	84176	2581907003	143464000	345.28	0.54
45	452367	179724	4684249877	84159	2668045722	143464000	345.28	0.55
46	458064	180866	4868257716	84147	2754009456	143464000	345.28	0.57
47	463857	182023	5053035436	84131	2839742536	143464000	345.28	0.57
48	469746	183199	5238598873	84117	2925244530	143464000	345.28	0.57
49	475729	184395	5424963725	84102	3010514876	143464000	345.28	0.57
50	481809	185611	5612145697	84088	3095552978	143464000	345.28	0.57
51	487983	186848	5800160489	84073	3180358200	143464000	345.28	0.57
52	494254	188104	5989023782	84060	3264929866	143464000	345.28	0.57
53	500619	189380	6178751224	84046	3349267252	143464000	345.28	0.57
54	507080	190677	6369358426	84033	3433369590	143464000	345.28	0.57
55	513637	191993	6560860947	84019	3517236064	143464000	345.28	0.57
56	520289	193329	6753274296	84006	3600865807	143464000	345.28	0.56

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 17 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	1900.00	29500.00	0.00
2.00	43.82	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
3.00	43.82	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
4.00	37.02	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
5.00	37.02	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
6.00	30.22	0.00	21280.00	54500.00	4.75
---	---	---	Ft = 21149	Fp = 42956	---
---	---	Pa = 10270	Ta = 238	La = 18487	---
---	---	Pb = -10270	Tb = 21042	Lb = 36013	---
7.00	30.22	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---

Pagina 40

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Usa
2	802	2271	2548729	29500	33656131	0	345.28	0.07
3	1642	2660	5147266	29501	61881405	0	345.28	0.12
4	2519	3067	8165638	29501	90133240	0	345.28	0.16
5	3435	3493	11622328	29501	118411118	0	345.28	0.19
6	4389	3936	15535769	29502	146714201	0	345.28	0.22
7	8560	1416	18107983	29503	175132830	0	345.28	0.24
8	12768	3124	14812943	29505	203659063	0	345.28	0.26
9	13836	3622	18752865	29505	232199876	0	345.28	0.27
10	14941	4138	23222459	29505	260753663	0	345.28	0.28
11	14706	36511	51608237	29505	289285146	0	345.28	0.30
12	17477	56224	110883190	29506	317864963	0	345.28	0.32
13	19541	56823	168204685	29510	347777193	0	345.28	0.34
14	24852	56914	225524056	29508	377503585	0	345.28	0.23
15	30231	56284	273501165	29509	407326272	0	345.28	0.24
16	32499	56925	330898927	29510	437173762	0	345.28	0.25
17	34834	57585	389009281	29510	467044716	0	345.28	0.26
18	35859	95957	477454989	29510	496911317	0	345.28	0.28
19	36951	109960	591208331	29510	526774086	0	345.28	0.30
20	39490	110679	701910189	29510	556658128	-0	345.28	0.32
21	50411	129747	826199656	30423	587320582	0	345.28	0.35
22	61400	110661	950803107	48002	637644870	54204864	345.28	0.37
23	71763	111441	1063079923	48004	686256787	54204864	345.28	0.39
24	75336	112193	1168948053	48010	731880492	54204864	345.28	0.41
25	72477	131394	1285840509	73013	795169778	54204864	345.28	0.32
26	69700	161102	1442620340	84014	876213539	78881536	345.28	0.34
27	73520	161879	1593287566	84015	954450418	78881536	345.28	0.36
28	77422	162674	1744723371	84015	1032704930	78881536	345.28	0.37
29	81406	163485	1896938145	84015	1110974300	78881536	345.28	0.39
30	85472	164313	2049942203	84015	1189255730	78881536	345.28	0.40
31	89620	165158	2203745797	84015	1267546411	78881536	345.28	0.41
32	93851	166020	2358359121	84015	1345843516	78881536	345.28	0.42
33	98164	166898	2513792317	84015	1424144210	78881536	345.28	0.43
34	114231	167797	2670273828	84017	1502561911	78881536	345.28	0.44
35	118968	168780	2840011237	84017	1587128383	78881536	345.28	0.45
36	123800	169763	3010750755	84017	1671705623	78881536	345.28	0.48
37	128728	170766	3182452349	84016	1756262091	78881536	345.28	0.48
38	133752	171787	3355128272	84016	1840794139	78881536	345.28	0.49
39	138871	172829	3528790744	84016	1925298123	78881536	345.28	0.50
40	144086	173890	3703451970	84015	2009770410	78881536	345.28	0.50
41	149397	174970	3879124134	84014	2094207374	78881536	345.28	0.50
42	154803	176070	4055819399	84014	2178605401	78881536	345.28	0.51
43	160305	177190	4233549911	84013	2262960885	78881536	345.28	0.51
44	182145	178331	4412504891	84014	2347362200	78881536	345.28	0.51
45	187747	179491	4592774605	84013	2431829852	78881536	345.28	0.52
46	193444	180651	4774112574	84012	2516250899	78881536	345.28	0.54
47	199237	181830	4956492365	84011	2600601825	78881536	345.28	0.54
48	205126	183028	5139926002	84010	2684879120	78881536	345.28	0.54
49	211109	184246	5324425480	84009	2769079276	78881536	345.28	0.54
50	217189	185484	5510002776	84008	2853198790	78881536	345.28	0.54
51	223363	186741	5696669846	84007	2937234168	78881536	345.28	0.54
52	229634	188017	5884438626	84005	3021181923	78881536	345.28	0.54
53	235999	189314	6073321029	84004	3105038574	78881536	345.28	0.54
54	242460	190629	6263328950	84003	3188800646	78881536	345.28	0.54
55	249017	191965	6454474256	84002	3272464670	78881536	345.28	0.54
56	255669	193320	6646768795	84001	3356027183	78881536	345.28	0.54

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 18 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2680.00	1900.00	29500.00	0.00
2.00	43.82	44590.00	24620.00	0.00	4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = 28691	La = 0	---
---	---	Pb = -426	Tb = -4071	Lb = 0	---
3.00	43.82	44590.00	24620.00	0.00	-4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = -32207	La = 0	---
---	---	Pb = -5943	Tb = 56827	Lb = 0	---
4.00	37.02	38990.00	21280.00	54500.00	4.75
---	---	---	Ft = 63513	Fp = 10192	---
---	---	Pa = 40015	Ta = 14210	La = 47231	---
---	---	Pb = -1025	Tb = 7070	Lb = 7269	---
5.00	37.02	44590.00	24620.00	0.00	-4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = -32207	La = 0	---
---	---	Pb = -5943	Tb = 56827	Lb = 0	---
6.00	30.22	44590.00	24620.00	0.00	4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = 28691	La = 0	---
---	---	Pb = -426	Tb = -4071	Lb = 0	---
7.00	30.22	44590.00	24620.00	0.00	-4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = -32207	La = 0	---
---	---	Pb = -5943	Tb = 56827	Lb = 0	---

Pagina 42

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	3482	2283	2655241	29511	33783292	0	345.28	0.07
3	4322	2674	5362204	29513	62144028	-0	345.28	0.12
4	5199	3084	8490960	29516	90539429	0	345.28	0.16
5	6115	3512	12060032	29518	118968941	0	345.28	0.19
6	7069	3959	16087898	29521	147431811	-0	345.28	0.22
7	57635	-1370	18627942	29671	177912453	-0	345.28	0.25
8	108238	1738	10596541	29818	210300269	0	345.28	0.28
9	109306	2234	16512218	29816	242601801	0	345.28	0.30
10	110411	2747	22942526	29812	274811001	0	345.28	0.32
11	108371	40032	57135485	29798	306811118	0	345.28	0.33
12	109337	56568	119356769	29792	338708473	0	345.28	0.35
13	111401	57376	182449765	29968	374070878	0	345.28	0.38
14	160606	55967	243960217	29912	408540434	0	345.28	0.26
15	209880	40652	257916020	77238	491578926	133861324	345.28	0.29
16	212148	41281	305842569	77226	574063327	133861324	345.28	0.31
17	214483	41927	354378104	77214	656405427	133861324	345.28	0.34
18	213403	92144	442687353	81937	742147313	133861324	345.28	0.37
19	212391	107154	559689012	84441	831849062	138223498	345.28	0.40
20	214930	107857	673055704	84427	920702412	138223498	345.28	0.43
21	267111	95008	779298938	84507	1010658155	138223498	345.28	0.45
22	319360	106031	883348616	84578	1101597155	138223498	345.28	0.48
23	329723	106796	998440407	84567	1192415757	138223498	345.28	0.50
24	333296	107765	1109379471	84743	1279169635	138223498	345.28	0.52
25	333767	155483	1253234200	84519	1363091456	138223498	345.28	0.40
26	334320	161715	1412041486	84497	1446775314	138223498	345.28	0.42
27	338140	162473	1569584140	84481	1530281633	138223498	345.28	0.43
28	342042	163247	1727695095	84465	1613609098	138223498	345.28	0.45
29	346026	164039	1886378981	84449	1696756706	138223498	345.28	0.46
30	350092	164847	2045641503	84432	1779723696	138223498	345.28	0.47
31	354240	165672	2205489304	84416	1862509495	138223498	345.28	0.48
32	358471	166514	2365929827	84400	1945113684	138223498	345.28	0.49
33	362784	167372	2526971210	84384	2027535959	138223498	345.28	0.50
34	378851	168263	2688854508	84380	2109933830	138223498	345.28	0.50
35	383588	169217	2864063064	84356	2198510719	138223498	345.28	0.51
36	388420	170187	3040123403	84346	2286967288	138223498	345.28	0.54
37	393348	171166	3216868873	84327	2375181838	138223498	345.28	0.54
38	398372	172165	3394312985	84308	2463155067	138223498	345.28	0.55
39	403491	173184	3572469459	84290	2550887493	138223498	345.28	0.55
40	408706	174222	3751352355	84272	2638379603	138223498	345.28	0.55
41	414017	175281	3930976016	84254	2725631834	138223498	345.28	0.56
42	419423	176359	4111355018	84237	2812644571	138223498	345.28	0.56
43	424925	177457	4292504124	84219	2899418134	138223498	345.28	0.56
44	446765	178585	4474625643	84210	2986072225	138223498	345.28	0.56
45	452367	179720	4657754537	84189	3072567504	138223498	345.28	0.56
46	458064	180862	4841738622	84175	3158859252	138223498	345.28	0.59
47	463857	182019	5026495133	84157	3244885223	138223498	345.28	0.59
48	469746	183196	5212039831	84139	3330645995	138223498	345.28	0.59
49	475729	184392	5398388346	84121	3416141924	138223498	345.28	0.58
50	481809	185609	5585556323	84104	3501373268	138223498	345.28	0.58
51	487983	186846	5773559406	84087	3586340188	138223498	345.28	0.58
52	494254	188102	5962413220	84071	3671042745	138223498	345.28	0.58
53	500619	189379	6152133364	84055	3755480908	138223498	345.28	0.58
54	507080	190676	6342735401	84039	3839654548	138223498	345.28	0.58
55	513637	191992	6534234851	84023	3923563447	138223498	345.28	0.58
56	520289	193329	6726647178	84008	4007207297	138223498	345.28	0.58

Pagina 43

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 19 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	1900.00	29500.00	0.00
2.00	43.82	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
3.00	43.82	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
4.00	37.02	0.00	21280.00	54500.00	4.75
---	---	---	Ft = 21149	Fp = 42956	---
---	---	Pa = 10270	Ta = 238	La = 18487	---
---	---	Pb = -10270	Tb = 21042	Lb = 36013	---
5.00	37.02	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
6.00	30.22	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
7.00	30.22	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---

Pagina 44

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	2271	2548725	29500	33660138	0	345.28	0.07
3	1642	2660	5147252	29501	61893597	0	345.28	0.12
4	2519	3067	8165610	29501	90157967	0	345.28	0.16
5	3435	3493	11622280	29502	118452904	0	345.28	0.19
6	4389	3936	15535697	29502	146777740	0	345.28	0.22
7	8560	1416	18107862	29504	175238722	0	345.28	0.24
8	12768	3124	14812750	29506	203828025	0	345.28	0.26
9	13836	3622	18752594	29506	232437064	0	345.28	0.27
10	14941	4139	23222104	29506	261064403	0	345.28	0.28
11	14706	36511	51607799	29506	289668154	0	345.28	0.30
12	17477	56224	110882654	29507	318333712	0	345.28	0.32
13	19541	56823	168203963	29513	348407952	0	345.28	0.34
14	29987	58796	226945060	29516	378402870	0	345.28	0.23
15	40501	56527	307939882	48002	427101382	52395803	345.28	0.26
16	42768	57168	365919375	48003	475660388	52395803	345.28	0.27
17	45104	57828	424602991	48003	524244304	52395803	345.28	0.29
18	40993	77458	496717550	71507	590800759	52395803	345.28	0.31
19	36951	106621	610452661	84012	678125794	74007278	345.28	0.35
20	39490	107339	717840719	84013	762094615	74007278	345.28	0.38
21	45276	101234	821414604	84014	846153933	74007278	345.28	0.40
22	51130	107079	923690944	84015	930294159	74007278	345.28	0.42
23	61493	107859	1032116387	84017	1014593334	74007278	345.28	0.45
24	65066	108609	1134308544	84024	1093436082	74007278	345.28	0.46
25	67342	150071	1266919749	84017	1171851408	74007278	345.28	0.36
26	69700	161102	1419664541	84017	1250264677	74007278	345.28	0.38
27	73520	161879	1570319946	84018	1328696091	74007278	345.28	0.39
28	77422	162674	1721744084	84018	1407142621	74007278	345.28	0.41
29	81406	163485	1873947359	84018	1485601227	74007278	345.28	0.42
30	85472	164313	2026940102	84018	1564068864	74007278	345.28	0.43
31	89620	165158	2180732581	84018	1642542482	74007278	345.28	0.44
32	93851	166020	2335335002	84018	1721019028	74007278	345.28	0.45
33	98164	166898	2490757520	84018	1799495449	74007278	345.28	0.46
34	114231	167797	2647227404	84021	1878104506	74007278	345.28	0.47
35	118968	168780	2816952865	84020	1962867628	74007278	345.28	0.47
36	123800	169763	2987680607	84020	2047638657	74007278	345.28	0.50
37	128728	170765	3159370896	84020	2132381184	74007278	345.28	0.51
38	133752	171787	3332035991	84019	2217091428	74007278	345.28	0.51
39	138871	172829	3505688122	84019	2301765611	74007278	345.28	0.52
40	144086	173890	3680339500	84018	2386399964	74007278	345.28	0.52
41	149397	174970	3856002319	84017	2470990726	74007278	345.28	0.52
42	154803	176070	4032688750	84017	2555534146	74007278	345.28	0.53
43	160305	177190	4210410945	84016	2640026482	74007278	345.28	0.53
44	182145	178331	4389357374	84016	2724568525	74007278	345.28	0.53
45	187747	179491	4569619281	84015	2809164671	74007278	345.28	0.53
46	193444	180651	4750949945	84014	2893705946	74007278	345.28	0.55
47	199237	181830	4933323103	84013	2978166031	74007278	345.28	0.55
48	205126	183028	5116750784	84012	3062541350	74007278	345.28	0.55
49	211109	184246	5301244987	84011	3146828320	74007278	345.28	0.56
50	217189	185484	5486817693	84009	3231023364	74007278	345.28	0.56
51	223363	186741	5673480865	84008	3315122907	74007278	345.28	0.56
52	229634	188017	5861246441	84006	3399123376	74007278	345.28	0.55
53	235999	189314	6050126343	84005	3483021203	74007278	345.28	0.55
54	242460	190629	6240132468	84004	3566812824	74007278	345.28	0.55
55	249017	191965	6431276691	84002	3650494674	74007278	345.28	0.55
56	255669	193320	6623570865	84001	3734063196	74007278	345.28	0.55

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 20 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	5360.00	3800.00	6000.00	0.00
2.00	43.82	38990.00	21280.00	54500.00	4.75
---	---	---	Ft = 63513	Fp = 10192	---
---	---	Pa = 40015	Ta = 14210	La = 47231	---
---	---	Pb = -1025	Tb = 7070	Lb = 7269	---
3.00	43.82	44590.00	24620.00	0.00	-4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = -32207	La = 0	---
---	---	Pb = -5943	Tb = 56827	Lb = 0	---
4.00	37.02	38990.00	21280.00	54500.00	4.75
---	---	---	Ft = 63513	Fp = 10192	---
---	---	Pa = 40015	Ta = 14210	La = 47231	---
---	---	Pb = -1025	Tb = 7070	Lb = 7269	---
5.00	37.02	44590.00	24620.00	0.00	-4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = -32207	La = 0	---
---	---	Pb = -5943	Tb = 56827	Lb = 0	---
6.00	30.22	44590.00	24620.00	0.00	4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = 28691	La = 0	---
---	---	Pb = -426	Tb = -4071	Lb = 0	---
7.00	30.22	44590.00	24620.00	0.00	-4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = -32207	La = 0	---
---	---	Pb = -5943	Tb = 56827	Lb = 0	---

Pagina 46

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	6162	4191	4910596	6024	7141831	0	345.28	0.02
3	7002	4583	9518909	6027	13213458	0	345.28	0.03
4	7879	4992	14546212	6030	19326079	0	345.28	0.04
5	8795	5420	20010725	6034	25480866	0	345.28	0.05
6	9749	5866	25930624	6037	31678970	0	345.28	0.06
7	57814	-5002	26568089	6688	40468893	0	345.28	0.08
8	105917	-10870	-6598199	53630	98662236	129677566	345.28	0.15
9	106985	-10374	-13059878	53628	154496093	129677566	345.28	0.20
10	108090	-9861	-18994224	53623	210291349	129677566	345.28	0.25
11	105750	32651	6551583	57577	268748933	129677566	345.28	0.29
12	106417	55101	68465053	60865	331991770	133381833	345.28	0.34
13	108481	55892	129606747	61087	399628558	133381833	345.28	0.39
14	157686	54494	189299228	61018	466230060	133381833	345.28	0.27
15	206960	39173	201372339	108375	581864577	267243157	345.28	0.32
16	209228	39802	247435682	108361	696931656	267243157	345.28	0.35
17	211563	40450	294126770	108346	811835118	267243157	345.28	0.39
18	210483	90669	380614546	113064	930078444	267243157	345.28	0.42
19	209471	105680	495816604	115563	1052217963	271605330	345.28	0.46
20	212010	106384	607400319	115545	1173472624	271605330	345.28	0.49
21	264191	93531	711819782	115650	1296199148	271605330	345.28	0.52
22	316440	104550	814012002	115742	1420243083	271605330	345.28	0.55
23	326803	105317	927261378	115729	1544144824	271605330	345.28	0.58
24	330376	106273	1036370772	115956	1662399651	271605330	345.28	0.59
25	330847	154007	1178550273	115667	1776939466	271605330	345.28	0.46
26	331400	160240	1335697575	115640	1891172399	271605330	345.28	0.48
27	335220	160999	1491592709	115620	2005177960	271605330	345.28	0.49
28	339122	161775	1648068356	115599	2118953690	271605330	345.28	0.50
29	343106	162568	1805128900	115578	2232497604	271605330	345.28	0.52
30	347172	163377	1962779809	115558	2345808085	271605330	345.28	0.53
31	351320	164203	2121027495	115537	2458883818	271605330	345.28	0.54
32	355551	165046	2279879180	115517	2571723726	271605330	345.28	0.55
33	359864	165906	2439342791	115496	2684326927	271605330	345.28	0.55
34	375931	166798	2599653277	115491	2796903143	271605330	345.28	0.56
35	380668	167753	2773182286	115460	2917938337	271605330	345.28	0.57
36	385500	168724	2947570818	115447	3038817710	271605330	345.28	0.60
37	390428	169704	3122657863	115423	3159379643	271605330	345.28	0.60
38	395452	170704	3298456658	115399	3279624587	271605330	345.28	0.61
39	400571	171724	3474980671	115375	3399552790	271605330	345.28	0.61
40	405786	172764	3652243726	115352	3519164487	271605330	345.28	0.61
41	411097	173824	3830259941	115329	3638459875	271605330	345.28	0.61
42	416503	174903	4009043679	115306	3757439103	271605330	345.28	0.62
43	422005	176003	4188609501	115284	3876102253	271605330	345.28	0.62
44	443845	177132	4369155395	115272	3994609315	271605330	345.28	0.62
45	449447	178268	4550720454	115245	4112911916	271605330	345.28	0.62
46	455144	179411	4733150510	115226	4230944931	271605330	345.28	0.64
47	460937	180569	4916365403	115203	4348625252	271605330	345.28	0.64
48	466826	181747	5100380701	115180	4465953361	271605330	345.28	0.64
49	472809	182945	5285211862	115157	4582929465	271605330	345.28	0.64
50	478889	184162	5470874365	115135	4699553651	271605330	345.28	0.64
51	485063	185400	5657383698	115113	4815825889	271605330	345.28	0.64
52	491334	186658	5844755341	115092	4931746029	271605330	345.28	0.63
53	497699	187936	6033004756	115071	5047313804	271605330	345.28	0.63
54	504160	189233	6222147377	115050	5162528831	271605330	345.28	0.63
55	510717	190551	6412198601	115030	5277390614	271605330	345.28	0.63
56	517369	191888	6603173780	115010	5391898545	271605330	345.28	0.63

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 21 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	3800.00	6000.00	0.00
2.00	43.82	0.00	21280.00	54500.00	4.75
---	---	---	Ft = 21149	Fp = 42956	---
---	---	Pa = 10270	Ta = 238	La = 18487	---
---	---	Pb = -10270	Tb = 21042	Lb = 36013	---
3.00	43.82	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
4.00	37.02	0.00	21280.00	54500.00	4.75
---	---	---	Ft = 21149	Fp = 42956	---
---	---	Pa = 10270	Ta = 238	La = 18487	---
---	---	Pb = -10270	Tb = 21042	Lb = 36013	---
5.00	37.02	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
6.00	30.22	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
7.00	30.22	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---

Pagina 48

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	802	4171	4716340	6001	6869998	0	345.28	0.02
3	1642	4560	9132627	6001	12661154	0	345.28	0.03
4	2519	4967	13970383	6002	18484509	0	345.28	0.04
5	3435	5393	19248052	6002	24341022	0	345.28	0.05
6	4389	5837	24984010	6003	30231587	0	345.28	0.06
7	13694	14367	36720669	6192	36576940	0	345.28	0.07
8	23038	5269	60585996	24501	61709834	50758203	345.28	0.11
9	24106	5768	66962637	24502	85954810	50758203	345.28	0.13
10	25211	6284	73863300	24502	110227897	50758203	345.28	0.15
11	19840	21928	91007817	44180	148549049	50758203	345.28	0.18
12	17477	54785	151147395	60510	210938906	69110215	345.28	0.24
13	19541	55384	207064770	60517	271881144	69110215	345.28	0.30
14	29987	57357	264397402	60520	332737839	69110215	345.28	0.22
15	40501	55089	343986307	79008	412371327	121506018	345.28	0.26
16	42768	55729	400558128	79008	491881257	121506018	345.28	0.29
17	45104	56389	457832407	79008	571430305	121506018	345.28	0.31
18	40993	76020	528534212	102512	668921105	121506018	345.28	0.34
19	36951	105182	640853807	115016	787149507	143117492	345.28	0.39
20	39490	105900	746825427	115017	902032797	143117492	345.28	0.42
21	45276	99795	848982484	115019	1017036245	143117492	345.28	0.45
22	51130	105640	949841431	115020	1132147817	143117492	345.28	0.48
23	61493	106420	1056849262	115023	1247468943	143117492	345.28	0.50
24	65066	107171	1157723755	115032	1355299366	143117492	345.28	0.52
25	67342	148632	1289014494	115023	1462577163	143117492	345.28	0.41
26	69700	159663	1440438145	115023	1569854444	143117492	345.28	0.43
27	73520	160440	1589771835	115024	1677157412	143117492	345.28	0.44
28	77422	161235	1739873704	115024	1784482024	143117492	345.28	0.46
29	81406	162046	1890754176	115024	1891824217	143117492	345.28	0.47
30	85472	162874	2042423607	115024	1999179917	143117492	345.28	0.48
31	89620	163719	2194892286	115024	2106545038	143117492	345.28	0.49
32	93851	164581	2348170448	115024	2213915487	143117492	345.28	0.50
33	98164	165459	2502268273	115024	2321287165	143117492	345.28	0.51
34	114231	166358	2657413024	115027	2428834535	143117492	345.28	0.52
35	118968	167341	2825708475	115026	2544805115	143117492	345.28	0.53
36	123800	168324	2995005737	115027	2660787599	143117492	345.28	0.55
37	128728	169326	3165265126	115026	2776733977	143117492	345.28	0.56
38	133752	170348	3336498952	115025	2892639125	143117492	345.28	0.56
39	138871	171389	3508719494	115025	3008497920	143117492	345.28	0.57
40	144086	172450	3681939012	115024	3124305252	143117492	345.28	0.57
41	149397	173531	3856169747	115023	3240056026	143117492	345.28	0.57
42	154803	174631	4031423921	115022	3355745156	143117492	345.28	0.58
43	160305	175750	4207713733	115021	3471367571	143117492	345.28	0.58
44	182145	176892	4385227381	115022	3587056576	143117492	345.28	0.58
45	187747	178052	4564054143	115020	3702824263	143117492	345.28	0.58
46	193444	179212	4743949634	115019	3818519949	143117492	345.28	0.61
47	199237	180390	4924887711	115017	3934108655	143117492	345.28	0.61
48	205126	181589	5106880459	115016	4049585513	143117492	345.28	0.61
49	211109	182807	5289939928	115014	4164945645	143117492	345.28	0.61
50	217189	184044	5474078153	115012	4280184182	143117492	345.28	0.61
51	223363	185301	5659307145	115010	4395296259	143117492	345.28	0.60
52	229634	186578	5845638898	115009	4510277020	143117492	345.28	0.60
53	235999	187874	6033085383	115007	4625121610	143117492	345.28	0.60
54	242460	189189	6221658546	115005	4739825184	143117492	345.28	0.60
55	249017	190525	6411370315	115003	4854382898	143117492	345.28	0.60
56	255669	191880	6602232590	115001	4968789917	143117492	345.28	0.60

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 22 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2580.00	1900.00	27500.00	0.00
2.00	43.82	43840.00	24620.00	0.00	4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = 28179	La = 0	---
---	---	Pb = -372	Tb = -3559	Lb = 0	---
3.00	43.82	43840.00	24620.00	0.00	-4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = -31695	La = 0	---
---	---	Pb = -5889	Tb = 56315	Lb = 0	---
4.00	37.02	43840.00	24620.00	0.00	4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = 28179	La = 0	---
---	---	Pb = -372	Tb = -3559	Lb = 0	---
5.00	37.02	43840.00	24620.00	0.00	-4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = -31695	La = 0	---
---	---	Pb = -5889	Tb = 56315	Lb = 0	---
6.00	30.22	38370.00	21280.00	52000.00	4.75
---	---	---	Ft = 61595	Fp = 9674	---
---	---	Pa = 39272	Ta = 14466	La = 45193	---
---	---	Pb = -902	Tb = 6814	Lb = 6807	---
7.00	30.22	43840.00	24620.00	0.00	-4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = -31695	La = 0	---
---	---	Pb = -5889	Tb = 56315	Lb = 0	---

Pagina 50

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	3382	2283	2654389	27508	31468409	0	345.28	0.07
3	4222	2674	5361259	27510	57876934	-0	345.28	0.11
4	5099	3084	8490713	27512	84312627	0	345.28	0.15
5	6015	3512	12061309	27514	110774779	0	345.28	0.18
6	6969	3959	16091557	27516	137262490	0	345.28	0.20
7	56731	-1371	18647630	27629	165304610	-0	345.28	0.24
8	106531	1735	10646029	27739	194801055	0	345.28	0.26
9	107599	2231	16592526	27737	224214871	-0	345.28	0.28
10	108704	2744	23054746	27735	253540817	0	345.28	0.29
11	106717	40029	57280031	27724	282690468	0	345.28	0.31
12	107737	56566	119536893	27719	311745420	0	345.28	0.33
13	109801	57373	182694249	27852	343548691	0	345.28	0.36
14	160703	56890	244961738	27805	374714807	0	345.28	0.25
15	211674	55144	289415899	27890	406973619	0	345.28	0.26
16	213942	55772	351908432	27882	439120300	0	345.28	0.28
17	216277	56418	414994906	27872	471155391	0	345.28	0.29
18	215550	100320	513116172	27857	503012055	-0	345.28	0.31
19	214891	110505	632373966	27841	534696114	-0	345.28	0.33
20	217430	111207	749234806	27831	566276576	-0	345.28	0.35
21	266338	85573	850118182	30113	600159195	-0	345.28	0.37
22	315313	95654	933649142	73130	682468720	132506987	345.28	0.40
23	325676	96419	1038450240	73122	760239685	132506987	345.28	0.42
24	329249	97386	1139797953	73256	834364595	132506987	345.28	0.44
25	329509	151288	1278393359	77814	909780567	132506987	345.28	0.34
26	329850	161709	1438184996	79877	988404487	137171437	345.28	0.36
27	333670	162467	1595675234	79865	1066380555	137171437	345.28	0.38
28	337572	163242	1753733818	79853	1144239317	137171437	345.28	0.40
29	341556	164034	1912365661	79841	1221977399	137171437	345.28	0.41
30	345622	164842	2071576720	79829	1299591839	137171437	345.28	0.42
31	349770	165667	2231373854	79817	1377080025	137171437	345.28	0.44
32	354001	166509	2391764695	79805	1454439642	137171437	345.28	0.45
33	358314	167368	2552757546	79793	1531668623	137171437	345.28	0.46
34	374381	168259	2714594944	79790	1608892475	137171437	345.28	0.47
35	379118	169213	2889756407	79772	1691963782	137171437	345.28	0.48
36	383950	170183	3065770350	79764	1774951292	137171437	345.28	0.50
37	388878	171162	3242471296	79750	1857756145	137171437	345.28	0.51
38	393902	172161	3419872863	79736	1940377173	137171437	345.28	0.51
39	399021	173180	3597988853	79722	2022813204	137171437	345.28	0.52
40	404236	174219	3776833399	79708	2105063156	137171437	345.28	0.52
41	409547	175278	3956420900	79695	2187126012	137171437	345.28	0.53
42	414953	176356	4136765975	79682	2269000806	137171437	345.28	0.53
43	420455	177455	4317883422	79668	2350686606	137171437	345.28	0.53
44	442295	178583	4499976418	79661	2432281367	137171437	345.28	0.54
45	447897	179718	4683079431	79645	2513768606	137171437	345.28	0.54
46	453594	180860	4867039454	79634	2595093126	137171437	345.28	0.56
47	459387	182017	5051774259	79621	2676202938	137171437	345.28	0.56
48	465276	183194	5237299605	79607	2757097551	137171437	345.28	0.56
49	471259	184391	5423631116	79594	2837776356	137171437	345.28	0.56
50	477339	185608	5610784427	79580	2918238712	137171437	345.28	0.56
51	483513	186845	5798775164	79567	2998483946	137171437	345.28	0.56
52	489784	188102	5987618934	79555	3078511344	137171437	345.28	0.56
53	496149	189378	6177331313	79542	3158320156	137171437	345.28	0.56
54	502610	190675	6367927839	79530	3237909586	137171437	345.28	0.56
55	509167	191992	6559424002	79518	3317278799	137171437	345.28	0.56
56	515819	193329	6751835237	79506	3396426913	137171437	345.28	0.56

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 23 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	1900.00	27500.00	0.00
2.00	43.82	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
3.00	43.82	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
4.00	37.02	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
5.00	37.02	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
6.00	30.22	0.00	21280.00	52000.00	4.75
---	---	---	Ft = 19715	Fp = 41757	---
---	---	Pa = 9708	Ta = 421	La = 17154	---
---	---	Pb = -9708	Tb = 20859	Lb = 34846	---
7.00	30.22	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---

Pagina 52

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	802	2271	2548720	27500	31374453	0	345.28	0.07
3	1642	2660	5147237	27501	57686341	-0	345.28	0.11
4	2519	3067	8165579	27501	84023091	0	345.28	0.15
5	3435	3493	11622228	27501	110384224	-0	345.28	0.18
6	4389	3936	15535618	27502	136768963	-0	345.28	0.20
7	8560	1416	18107730	27503	163261896	-0	345.28	0.22
8	12768	3124	14812540	27504	189855623	-0	345.28	0.24
9	13836	3622	18752300	27505	216463063	0	345.28	0.25
10	14941	4138	23221718	27505	243082722	0	345.28	0.26
11	14706	36510	51607323	27505	269681559	0	345.28	0.28
12	17477	56224	110882072	27505	296325768	0	345.28	0.30
13	19541	56823	168203181	27510	324213842	0	345.28	0.32
14	24852	56914	225522252	27507	351927836	0	345.28	0.22
15	30231	56284	273498995	27509	379732230	-0	345.28	0.23
16	32499	56925	330896366	27509	407560008	0	345.28	0.24
17	34834	57585	389006300	27509	435409929	0	345.28	0.25
18	35859	95957	477451577	27509	463255907	0	345.28	0.27
19	36951	109960	591204475	27509	491098434	-0	345.28	0.29
20	39490	110679	701905860	27510	518961086	-0	345.28	0.31
21	50130	128381	825250207	28357	547543438	0	345.28	0.34
22	60838	110844	949027169	44667	594367049	50294828	345.28	0.36
23	71202	111624	1061467946	44669	639603899	50294828	345.28	0.38
24	74774	112375	1167483565	44675	682061588	50294828	345.28	0.40
25	72196	132531	1285392982	68868	741632737	50294828	345.28	0.31
26	69700	161102	1441922802	79514	818389003	74172232	345.28	0.33
27	73520	161879	1592589629	79514	892428936	74172232	345.28	0.35
28	77422	162674	1744025041	79514	966485630	74172232	345.28	0.37
29	81406	163485	1896239426	79514	1040556466	74172232	345.28	0.38
30	85472	164313	2049243102	79514	1114638807	74172232	345.28	0.39
31	89620	165158	2203046321	79514	1188729997	74172232	345.28	0.40
32	93851	166020	2357659277	79514	1262827369	74172232	345.28	0.42
33	98164	166898	2513092113	79514	1336928248	74172232	345.28	0.42
34	114231	167797	2669573231	79516	1411139407	74172232	345.28	0.43
35	118968	168780	2839310238	79516	1491169785	74172232	345.28	0.44
36	123800	169763	3010049358	79516	1571210438	74172232	345.28	0.47
37	128728	170766	3181750571	79515	1651231656	74172232	345.28	0.48
38	133752	171787	3354426127	79515	1731229994	74172232	345.28	0.48
39	138871	172829	3528088251	79515	1811202004	74172232	345.28	0.49
40	144086	173890	3702749145	79514	1891144253	74172232	345.28	0.49
41	149397	174970	3878420993	79514	1971053314	74172232	345.28	0.50
42	154803	176070	4055115960	79513	2050925769	74172232	345.28	0.50
43	160305	177190	4232846191	79512	2130758208	74172232	345.28	0.50
44	182145	178331	4411800882	79513	2210633911	74172232	345.28	0.51
45	187747	179491	4592070333	79512	2290572755	74172232	345.28	0.51
46	193444	180651	4773408056	79511	2370467732	74172232	345.28	0.53
47	199237	181830	4955787622	79510	2450296668	74172232	345.28	0.53
48	205126	183028	5139221058	79509	2530056243	74172232	345.28	0.53
49	211109	184246	5323720358	79508	2609743139	74172232	345.28	0.53
50	217189	185484	5509297500	79507	2689354043	74172232	345.28	0.53
51	223363	186741	5695964438	79506	2768885650	74172232	345.28	0.54
52	229634	188017	5883733110	79505	2848334664	74172232	345.28	0.54
53	235999	189314	6072615429	79504	2927697791	74172232	345.28	0.54
54	242460	190629	6262623288	79503	3006971745	74172232	345.28	0.54
55	249017	191965	6453768558	79502	3086153247	74172232	345.28	0.54
56	255669	193320	6646063085	79501	3165239021	74172232	345.28	0.54

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 24 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2580.00	1900.00	27500.00	0.00
2.00	43.82	43840.00	24620.00	0.00	4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = 28179	La = 0	---
---	---	Pb = -372	Tb = -3559	Lb = 0	---
3.00	43.82	43840.00	24620.00	0.00	-4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = -31695	La = 0	---
---	---	Pb = -5889	Tb = 56315	Lb = 0	---
4.00	37.02	38370.00	21280.00	52000.00	4.75
---	---	---	Ft = 61595	Fp = 9674	---
---	---	Pa = 39272	Ta = 14466	La = 45193	---
---	---	Pb = -902	Tb = 6814	Lb = 6807	---
5.00	37.02	43840.00	24620.00	0.00	-4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = -31695	La = 0	---
---	---	Pb = -5889	Tb = 56315	Lb = 0	---
6.00	30.22	43840.00	24620.00	0.00	4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = 28179	La = 0	---
---	---	Pb = -372	Tb = -3559	Lb = 0	---
7.00	30.22	43840.00	24620.00	0.00	-4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = -31695	La = 0	---
---	---	Pb = -5889	Tb = 56315	Lb = 0	---

Pagina 54

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	3382	2282	2651165	27509	31489634	0	345.28	0.07
3	4222	2674	5354020	27512	57924593	-0	345.28	0.11
4	5099	3083	8478636	27514	84392146	-0	345.28	0.15
5	6015	3512	12043536	27517	110891801	0	345.28	0.18
6	6969	3958	16067198	27519	137422875	-0	345.28	0.20
7	56731	-1376	18569767	27656	165817283	0	345.28	0.24
8	106531	1725	10467948	27790	195973605	0	345.28	0.27
9	107599	2222	16313566	27788	226051665	0	345.28	0.28
10	108704	2735	22674290	27785	256045937	0	345.28	0.30
11	106717	40020	56800400	27772	285848643	-0	345.28	0.31
12	107737	56557	118957650	27766	315559552	0	345.28	0.33
13	109801	57358	181944099	27928	348488322	0	345.28	0.36
14	158233	55963	243367378	27876	380589737	-0	345.28	0.25
15	206734	41401	258160304	73155	459120398	128084631	345.28	0.27
16	209002	42030	306725368	73145	537127192	128084631	345.28	0.30
17	211337	42677	355901261	73134	615004316	128084631	345.28	0.32
18	210345	92504	444569403	77558	696070682	128084631	345.28	0.35
19	209421	107138	561365088	79903	780850513	132169689	345.28	0.38
20	211960	107841	674624435	79891	864838957	132169689	345.28	0.41
21	263337	94989	780734729	79964	949849574	132169689	345.28	0.44
22	314783	106009	884627572	80028	1035772169	132169689	345.28	0.46
23	325146	106775	999566707	80018	1121587206	132169689	345.28	0.48
24	328719	107737	1110317422	80180	1203526518	132169689	345.28	0.50
25	329244	155464	1254039832	79974	1282837166	132169689	345.28	0.39
26	329850	161696	1412719617	79955	1361928284	132169689	345.28	0.41
27	333670	162455	1570138259	79940	1440855735	132169689	345.28	0.42
28	337572	163230	1728128828	79926	1519618199	132169689	345.28	0.44
29	341556	164022	1886696061	79911	1598214650	132169689	345.28	0.45
30	345622	164831	2045845755	79896	1676644287	132169689	345.28	0.46
31	349770	165657	2205584618	79881	1754906487	132169689	345.28	0.47
32	354001	166499	2365920145	79867	1833000772	132169689	345.28	0.48
33	358314	167359	2526860512	79852	1910926773	132169689	345.28	0.48
34	374381	168250	2688646538	79849	1988832842	132169689	345.28	0.49
35	379118	169205	2863756609	79827	2072586535	132169689	345.28	0.50
36	383950	170175	3039721214	79817	2156229118	132169689	345.28	0.53
37	388878	171155	3216375979	79800	2239647139	132169689	345.28	0.53
38	393902	172154	3393734388	79783	2322841142	132169689	345.28	0.54
39	399021	173174	3571810129	79766	2405811512	132169689	345.28	0.54
40	404236	174213	3750617226	79750	2488558601	132169689	345.28	0.54
41	409547	175272	3930169979	79733	2571082723	132169689	345.28	0.55
42	414953	176351	4110482914	79717	2653384141	132169689	345.28	0.55
43	420455	177450	4291570744	79701	2735463060	132169689	345.28	0.55
44	442295	178579	4473635529	79693	2817432251	132169689	345.28	0.55
45	447897	179714	4656713227	79674	2899255491	132169689	345.28	0.55
46	453594	180856	4840649957	79661	2980889146	132169689	345.28	0.58
47	459387	182014	5025363961	79644	3062275027	132169689	345.28	0.58
48	465276	183191	5210870926	79628	3143413583	132169689	345.28	0.58
49	471259	184388	5397186412	79612	3224305063	132169689	345.28	0.58
50	477339	185606	5584325994	79596	3304949626	132169689	345.28	0.58
51	483513	186843	5772305241	79580	3385347339	132169689	345.28	0.57
52	489784	188100	5961139709	79565	3465498183	132169689	345.28	0.57
53	496149	189377	6150844926	79550	3545402048	132169689	345.28	0.57
54	502610	190674	6341436384	79536	3625058740	132169689	345.28	0.57
55	509167	191991	6532929530	79521	3704467979	132169689	345.28	0.57
56	515819	193329	6725339763	79507	3783629403	132169689	345.28	0.57

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 25 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	1900.00	27500.00	0.00
2.00	43.82	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
3.00	43.82	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
4.00	37.02	0.00	21280.00	52000.00	4.75
---	---	---	Ft = 19715	Fp = 41757	---
---	---	Pa = 9708	Ta = 421	La = 17154	---
---	---	Pb = -9708	Tb = 20859	Lb = 34846	---
5.00	37.02	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
6.00	30.22	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
7.00	30.22	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Us0
2	802	2271	2548708	27500	31378264	0	345.28	0.07
3	1642	2660	5147200	27501	57697936	0	345.28	0.11
4	2519	3067	8165506	27501	84046608	0	345.28	0.15
5	3435	3493	11622104	27501	110423965	0	345.28	0.18
6	4389	3936	15535429	27502	136829393	0	345.28	0.20
7	8560	1416	18107416	27504	163362607	0	345.28	0.22
8	12768	3124	14812038	27505	190016318	0	345.28	0.24
9	13836	3622	18751596	27506	216688646	0	345.28	0.25
10	14941	4139	23220796	27506	243378257	0	345.28	0.26
11	14706	36511	51606187	27506	270045826	0	345.28	0.28
12	17477	56224	110880681	27507	296771580	0	345.28	0.30
13	19541	56823	168201308	27512	324813737	0	345.28	0.32
14	29706	58693	226864086	27515	352774359	0	345.28	0.22
15	39939	56710	306248833	44668	398085986	48616263	345.28	0.25
16	42207	57350	364389378	44668	443269168	48616263	345.28	0.26
17	44543	58010	423234463	44668	488476477	48616263	345.28	0.28
18	40713	78418	496244234	67411	551084832	48616263	345.28	0.30
19	36951	106621	609763345	79512	633799037	69527749	345.28	0.34
20	39490	107339	717150999	79512	713265275	69527749	345.28	0.36
21	45276	101234	820724459	79513	792816947	69527749	345.28	0.39
22	51130	107079	923000359	79514	872445040	69527749	345.28	0.41
23	61493	107859	1031425318	79516	952223105	69527749	345.28	0.43
24	65066	108609	1133616880	79523	1026835868	69527749	345.28	0.45
25	67342	150071	1266227667	79516	1101045976	69527749	345.28	0.35
26	69700	161102	1418972052	79516	1175254269	69527749	345.28	0.37
27	73520	161879	1569627056	79517	1249479784	69527749	345.28	0.38
28	77422	162674	1721050798	79517	1323719659	69527749	345.28	0.40
29	81406	163485	1873253683	79517	1397971024	69527749	345.28	0.41
30	85472	164313	2026246043	79517	1472231002	69527749	345.28	0.42
31	89620	165158	2180038144	79517	1546496711	69527749	345.28	0.43
32	93851	166020	2334640195	79517	1620765267	69527749	345.28	0.44
33	98164	166898	2490062351	79517	1695033786	69527749	345.28	0.45
34	114231	167797	2646531840	79519	1769427497	69527749	345.28	0.46
35	118968	168780	2816256895	79519	1849645475	69527749	345.28	0.47
36	123800	169763	2986984239	79519	1929870999	69527749	345.28	0.49
37	128728	170765	3158674144	79518	2010069715	69527749	345.28	0.50
38	133752	171787	3331338871	79518	2090238048	69527749	345.28	0.50
39	138871	172829	3504990651	79517	2170372425	69527749	345.28	0.51
40	144086	173890	3679641695	79517	2250469282	69527749	345.28	0.51
41	149397	174970	3855304197	79516	2330525063	69527749	345.28	0.51
42	154803	176070	4031990328	79516	2410536220	69527749	345.28	0.52
43	160305	177190	4209712241	79515	2490499215	69527749	345.28	0.52
44	182145	178331	4388658380	79515	2570509170	69527749	345.28	0.52
45	187747	179491	4568920022	79514	2650570594	69527749	345.28	0.52
46	193444	180651	4750250438	79513	2730580267	69527749	345.28	0.55
47	199237	181830	4932623371	79512	2810513339	69527749	345.28	0.55
48	205126	183028	5116050849	79511	2890366426	69527749	345.28	0.55
49	211109	184246	5300544874	79510	2970136142	69527749	345.28	0.55
50	217189	185484	5486117425	79509	3049819100	69527749	345.28	0.55
51	223363	186741	5672780463	79507	3129411919	69527749	345.28	0.55
52	229634	188017	5860545931	79506	3208911221	69527749	345.28	0.55
53	235999	189314	6049425748	79505	3288313630	69527749	345.28	0.55
54	242460	190629	6239431812	79503	3367615773	69527749	345.28	0.55
55	249017	191965	6430575998	79502	3446814281	69527749	345.28	0.55
56	255669	193320	6622870160	79501	3525905787	69527749	345.28	0.55

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 26 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	5160.00	3800.00	5000.00	0.00
2.00	43.82	38370.00	21280.00	52000.00	4.75
---	---	---	Ft = 61595	Fp = 9674	---
---	---	Pa = 39272	Ta = 14466	La = 45193	---
---	---	Pb = -902	Tb = 6814	Lb = 6807	---
3.00	43.82	43840.00	24620.00	0.00	-4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = -31695	La = 0	---
---	---	Pb = -5889	Tb = 56315	Lb = 0	---
4.00	37.02	38370.00	21280.00	52000.00	4.75
---	---	---	Ft = 61595	Fp = 9674	---
---	---	Pa = 39272	Ta = 14466	La = 45193	---
---	---	Pb = -902	Tb = 6814	Lb = 6807	---
5.00	37.02	43840.00	24620.00	0.00	-4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = -31695	La = 0	---
---	---	Pb = -5889	Tb = 56315	Lb = 0	---
6.00	30.22	43840.00	24620.00	0.00	4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = 28179	La = 0	---
---	---	Pb = -372	Tb = -3559	Lb = 0	---
7.00	30.22	43840.00	24620.00	0.00	-4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = -31695	La = 0	---
---	---	Pb = -5889	Tb = 56315	Lb = 0	---

Pagina 58

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	5962	4190	4903739	5022	5973837	0	345.28	0.02
3	6802	4582	9505286	5024	11060081	-0	345.28	0.03
4	7679	4991	14525922	5028	16184915	0	345.28	0.04
5	8595	5419	19983879	5031	21349496	0	345.28	0.05
6	9549	5865	25897339	5034	26554963	0	345.28	0.06
7	56841	-4934	26552052	5649	34165822	0	345.28	0.07
8	104171	-10113	-5748811	50557	88976824	124081420	345.28	0.13
9	105239	-9616	-11530907	50555	141533569	124081420	345.28	0.18
10	106344	-9103	-16786168	50551	194057346	124081420	345.28	0.23
11	104092	33089	9217644	54254	249080565	124081420	345.28	0.27
12	104847	55091	70977890	57333	308591694	127550366	345.28	0.31
13	106911	55877	132034789	57337	372205801	127550366	345.28	0.36
14	155343	54492	191657351	57474	434858909	127550366	345.28	0.26
15	203844	39924	204588361	102782	544374561	255634997	345.28	0.30
16	206112	40553	251309702	102769	653354371	255634997	345.28	0.34
17	208447	41202	298659419	102755	762185061	255634997	345.28	0.37
18	207455	91030	385522918	107175	874149751	255634997	345.28	0.40
19	206531	105665	500534502	109515	989769109	259720054	345.28	0.44
20	209070	106370	612025410	109499	1104563366	259720054	345.28	0.47
21	260447	93514	716328596	109595	1220724918	259720054	345.28	0.50
22	311893	104530	818382365	109679	1338110617	259720054	345.28	0.53
23	322256	105297	931496497	109667	1455369570	259720054	345.28	0.55
24	325829	106247	1040438231	109876	1567238858	259720054	345.28	0.57
25	326354	153990	1182499544	109611	1675653558	259720054	345.28	0.44
26	326960	160223	1339532677	109587	1783784639	259720054	345.28	0.46
27	330780	160983	1495316490	109568	1891705748	259720054	345.28	0.47
28	334682	161760	1651683831	109549	1999414475	259720054	345.28	0.49
29	338666	162553	1808639216	109530	2106908850	259720054	345.28	0.50
30	342732	163363	1966188226	109511	2214187251	259720054	345.28	0.51
31	346880	164190	2124337365	109493	2321248336	259720054	345.28	0.52
32	351111	165033	2283093927	109474	2428090992	259720054	345.28	0.53
33	355424	165894	2442465894	109455	2534714282	259720054	345.28	0.54
34	371491	166786	2602688194	109451	2641316105	259720054	345.28	0.54
35	376228	167742	2776127810	109423	2755935038	259720054	345.28	0.55
36	381060	168713	2950429339	109410	2870409828	259720054	345.28	0.58
37	385988	169694	3125433854	109388	2984589542	259720054	345.28	0.59
38	391012	170695	3301154586	109366	3098474463	259720054	345.28	0.59
39	396131	171715	3477604993	109345	3212064692	259720054	345.28	0.59
40	401346	172756	3654798877	109323	3325360321	259720054	345.28	0.60
41	406657	173816	3832750331	109302	3438361410	259720054	345.28	0.60
42	412063	174896	4011473685	109282	3551067972	259720054	345.28	0.60
43	417565	175996	4190983463	109261	3663479966	259720054	345.28	0.60
44	439405	177126	4371477548	109250	3775748388	259720054	345.28	0.60
45	445007	178262	4552995824	109225	3887828676	259720054	345.28	0.60
46	450704	179406	4735382584	109208	3999657400	259720054	345.28	0.63
47	456497	180564	4918558592	109187	4111156728	259720054	345.28	0.63
48	462386	181743	5102539355	109166	4222326996	259720054	345.28	0.63
49	468369	182941	5287340271	109145	4333168286	259720054	345.28	0.62
50	474449	184159	5472976761	109125	4443680570	259720054	345.28	0.62
51	480623	185398	5659464251	109105	4553863715	259720054	345.28	0.62
52	486894	186656	5846818158	109085	4663717474	259720054	345.28	0.62
53	493259	187934	6035053885	109065	4773241496	259720054	345.28	0.62
54	499720	189232	6224186801	109046	4882435322	259720054	345.28	0.62
55	506277	190550	6414232242	109028	4991298387	259720054	345.28	0.62
56	512929	191888	6605205499	109009	5099830025	259720054	345.28	0.61

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 27 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	3800.00	5000.00	0.00
2.00	43.82	0.00	21280.00	52000.00	4.75
---	---	---	Ft = 19715	Fp = 41757	---
---	---	Pa = 9708	Ta = 421	La = 17154	---
---	---	Pb = -9708	Tb = 20859	Lb = 34846	---
3.00	43.82	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
4.00	37.02	0.00	21280.00	52000.00	4.75
---	---	---	Ft = 19715	Fp = 41757	---
---	---	Pa = 9708	Ta = 421	La = 17154	---
---	---	Pb = -9708	Tb = 20859	Lb = 34846	---
5.00	37.02	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---
6.00	30.22	0.00	24620.00	0.00	4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 24620	Lb = 0	---
7.00	30.22	0.00	24620.00	0.00	-4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = -1758	La = 0	---
---	---	Pb = -2758	Tb = 26378	Lb = 0	---

Pagina 60

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	4171	4716282	5000	5728015	0	345.28	0.02
3	1642	4560	9132450	5001	10560138	0	345.28	0.03
4	2519	4967	13970023	5001	15422369	0	345.28	0.04
5	3435	5393	19247444	5002	20315636	0	345.28	0.05
6	4389	5837	24983087	5003	25240814	-0	345.28	0.05
7	13414	13765	36319111	5178	30581207	0	345.28	0.07
8	22477	5452	58995442	22166	53347656	47096790	345.28	0.10
9	23544	5950	65524778	22167	75291222	47096790	345.28	0.12
10	24650	6466	72578449	22167	97261963	47096790	345.28	0.13
11	19560	22818	90473762	41208	132841605	47096790	345.28	0.16
12	17477	54785	150448683	57009	191722642	64854387	345.28	0.23
13	19541	55384	206364740	57016	249136773	64854387	345.28	0.29
14	29706	57254	263618376	57019	306462074	64854387	345.28	0.21
15	39939	55271	341596300	74172	381205751	113470649	345.28	0.25
16	42207	55912	398328325	74173	455836228	113470649	345.28	0.28
17	44543	56572	455763277	74173	530504448	113470649	345.28	0.30
18	40713	76979	527359705	96916	622546610	113470649	345.28	0.33
19	36951	105181	639462875	109015	734667244	134382136	345.28	0.37
20	39490	105900	745433673	109016	843550508	134382136	345.28	0.41
21	45276	99795	847589868	109017	952547353	134382136	345.28	0.43
22	51130	105640	948447923	109019	1061646462	134382136	345.28	0.46
23	61493	106420	1055454773	109022	1170943526	134382136	345.28	0.48
24	65066	107171	1156328055	109030	1273139005	134382136	345.28	0.50
25	67342	148632	1287617947	109022	1374813379	134382136	345.28	0.39
26	69700	159663	1439040774	109022	1476487453	134382136	345.28	0.41
27	73520	160440	1588373650	109022	1578185945	134382136	345.28	0.43
28	77422	161235	1738474715	109022	1679905028	134382136	345.28	0.44
29	81406	162046	1889354396	109023	1781640863	134382136	345.28	0.46
30	85472	162874	2041023048	109023	1883389595	134382136	345.28	0.47
31	89620	163719	2193490962	109023	1985147357	134382136	345.28	0.48
32	93851	164580	2346768373	109023	2086910279	134382136	345.28	0.49
33	98164	165459	2500865463	109023	2188674482	134382136	345.28	0.50
34	114231	166357	2656009413	109026	2290604721	134382136	345.28	0.50
35	118968	167341	2824304042	109025	2400518536	134382136	345.28	0.51
36	123800	168324	2993600493	109025	2510443721	134382136	345.28	0.54
37	128728	169326	3163859103	109024	2620334927	134382136	345.28	0.55
38	133752	170348	3335092183	109024	2730187297	134382136	345.28	0.55
39	138871	171389	3507312013	109023	2839995982	134382136	345.28	0.56
40	144086	172450	3680530853	109022	2949756144	134382136	345.28	0.56
41	149397	173531	3854760945	109021	3059462954	134382136	345.28	0.56
42	154803	174631	4030014510	109021	3169111600	134382136	345.28	0.56
43	160305	175750	4206303750	109020	3278697277	134382136	345.28	0.57
44	182145	176892	4383816809	109020	3388345949	134382136	345.28	0.57
45	187747	178052	4562643034	109019	3498069580	134382136	345.28	0.57
46	193444	179212	4742538022	109018	3607725222	134382136	345.28	0.59
47	199237	180390	4923475642	109016	3717279813	134382136	345.28	0.59
48	205126	181589	5105467980	109015	3826728736	134382136	345.28	0.59
49	211109	182807	5288527086	109013	3936067374	134382136	345.28	0.59
50	217189	184044	5472664994	109011	4045291112	134382136	345.28	0.59
51	223363	185301	5657893718	109010	4154395343	134382136	345.28	0.59
52	229634	186578	5844225251	109008	4263375465	134382136	345.28	0.59
53	235999	187874	6031671563	109006	4372226881	134382136	345.28	0.59
54	242460	189189	6220244603	109005	4480944999	134382136	345.28	0.59
55	249017	190525	6409956297	109003	4589525234	134382136	345.28	0.59
56	255669	191880	6600818547	109001	4697963004	134382136	345.28	0.59

Pagina 61

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 28 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	4530.00	1130.00	36000.00	0.00
2.00	43.82	60460.00	10140.00	0.00	4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = 40562	La = 0	---
---	---	Pb = -3181	Tb = -30422	Lb = 0	---
3.00	43.82	60460.00	10140.00	0.00	-4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = -42010	La = 0	---
---	---	Pb = -5454	Tb = 52150	Lb = 0	---
4.00	37.02	60460.00	10140.00	0.00	4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = 40562	La = 0	---
---	---	Pb = -3181	Tb = -30422	Lb = 0	---
5.00	37.02	60460.00	10140.00	0.00	-4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = -42010	La = 0	---
---	---	Pb = -5454	Tb = 52150	Lb = 0	---
6.00	30.22	52220.00	8640.00	63000.00	4.75
---	---	---	Ft = 87143	Fp = -8213	---
---	---	Pa = 51046	Ta = 13824	La = 69261	---
---	---	Pb = 1174	Tb = -5184	Lb = -6261	---
7.00	30.22	60460.00	10140.00	0.00	-4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = -42010	La = 0	---
---	---	Pb = -5454	Tb = 52150	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	5332	1232	1459081	36023	41295843	0	345.28	0.09
3	6172	1331	2814315	36027	75968516	-0	345.28	0.15
4	7049	1434	4279523	36030	110676975	0	345.28	0.19
5	7965	1542	5859458	36034	145419979	0	345.28	0.23
6	8919	1654	7558861	36038	180196145	0	345.28	0.26
7	76488	-563	8803895	36326	217877857	0	345.28	0.31
8	144095	691	5847205	36609	258283602	0	345.28	0.35
9	145162	813	8552886	36603	298525039	0	345.28	0.37
10	146268	938	11384877	36594	338591511	0	345.28	0.39
11	143094	16202	25547003	36565	378314387	0	345.28	0.40
12	142927	22919	51142385	36546	417808671	0	345.28	0.42
13	144991	23214	77260808	36873	461809505	0	345.28	0.43
14	213700	22899	102852102	36762	504698660	0	345.28	0.29
15	282478	22119	121195618	36976	549626024	0	345.28	0.30
16	284745	22269	146841401	36951	594319474	0	345.28	0.30
17	287081	22422	172599877	36924	638779867	0	345.28	0.31
18	285167	40386	212638525	36882	682880071	0	345.28	0.31
19	283321	44458	261228669	36840	726631529	-0	345.28	0.32
20	285860	44625	308685032	36811	770165833	-0	345.28	0.32
21	348747	7059	331106732	40357	817403255	-0	345.28	0.33
22	411701	16931	322844215	106324	939012247	203075170	345.28	0.35
23	422064	17113	344251926	106295	1053561063	203075170	345.28	0.37
24	425637	17446	365888703	106613	1163228721	203075170	345.28	0.39
25	427153	62821	420785042	101858	1265967468	203075170	345.28	0.30
26	428750	64583	485030968	99909	1365332893	198785246	345.28	0.31
27	432570	64762	548468164	99877	1464952473	198785246	345.28	0.32
28	436472	64946	612003242	99845	1564330444	198785246	345.28	0.33
29	440456	65134	675634182	99813	1663463375	198785246	345.28	0.33
30	444522	65326	739359654	99782	1762348519	198785246	345.28	0.34
31	448670	65523	803178931	99750	1860983698	198785246	345.28	0.35
32	452901	65724	867091800	99719	1959367214	198785246	345.28	0.35
33	457214	65929	931098503	99689	2057497767	198785246	345.28	0.36
34	473281	66146	995289238	99675	2155546316	198785246	345.28	0.36
35	478018	66371	1064577758	99631	2260888863	198785246	345.28	0.36
36	482850	66607	1134042366	99611	2366062960	198785246	345.28	0.38
37	487778	66841	1203598833	99576	2470903031	198785246	345.28	0.38
38	492802	67080	1273249612	99542	2575409914	198785246	345.28	0.39
39	497921	67324	1342997298	99508	2679584305	198785246	345.28	0.39
40	503136	67573	1412844720	99475	2783427000	198785246	345.28	0.39
41	508447	67827	1482794902	99443	2886938862	198785246	345.28	0.39
42	513853	68087	1552851032	99411	2990120787	198785246	345.28	0.39
43	519355	68352	1623016435	99380	3092973685	198785246	345.28	0.39
44	541195	68627	1693366917	99361	3195630573	198785246	345.28	0.39
45	546797	68899	1763906270	99324	3298047515	198785246	345.28	0.39
46	552494	69176	1834589084	99299	3400187758	198785246	345.28	0.40
47	558287	69456	1905373274	99267	3501968708	198785246	345.28	0.40
48	564176	69740	1976262846	99236	3603391927	198785246	345.28	0.40
49	570159	70030	2047261747	99206	3704458684	198785246	345.28	0.40
50	576239	70325	2118373951	99177	3805170156	198785246	345.28	0.40
51	582413	70625	2189603446	99148	3905527429	198785246	345.28	0.39
52	588684	70930	2260954233	99120	4005531486	198785246	345.28	0.39
53	595049	71240	2332430311	99092	4105183211	198785246	345.28	0.39
54	601510	71556	2404035676	99065	4204483384	198785246	345.28	0.39
55	608067	71877	2475774314	99039	4303432682	198785246	345.28	0.39
56	614719	72202	2547650198	99013	4402031675	198785246	345.28	0.38

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 29 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	1130.00	36000.00	0.00
2.00	43.82	0.00	10140.00	0.00	4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 10140	Lb = 0	---
3.00	43.82	0.00	10140.00	0.00	-4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = -724	La = 0	---
---	---	Pb = -1136	Tb = 10864	Lb = 0	---
4.00	37.02	0.00	10140.00	0.00	4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 10140	Lb = 0	---
5.00	37.02	0.00	10140.00	0.00	-4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = -724	La = 0	---
---	---	Pb = -1136	Tb = 10864	Lb = 0	---
6.00	30.22	0.00	8640.00	63000.00	4.75
---	---	---	Ft = 32853	Fp = 37714	---
---	---	Pa = 12651	Ta = -4487	La = 29985	---
---	---	Pb = -12651	Tb = 13127	Lb = 33015	---
7.00	30.22	0.00	10140.00	0.00	-4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = -724	La = 0	---
---	---	Pb = -1136	Tb = 10864	Lb = 0	---

Pagina 64

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	1223	1387979	36000	41071791	0	345.28	0.09
3	1642	1320	2671492	36001	75515996	0	345.28	0.14
4	2519	1421	4064368	36001	109992509	0	345.28	0.19
5	3435	1527	5571366	36001	144500695	0	345.28	0.23
6	4389	1638	7197227	36002	179039525	-0	345.28	0.26
7	7748	525	8185584	36003	213690495	-0	345.28	0.29
8	11146	1150	6669581	36005	248445994	-0	345.28	0.31
9	12214	1274	8055659	36005	283221319	0	345.28	0.33
10	13319	1403	9579349	36005	318014545	0	345.28	0.34
11	13894	14649	20881784	36006	352806868	0	345.28	0.35
12	17477	22679	44830536	36007	387681959	0	345.28	0.37
13	19541	22829	67856212	36012	424181336	0	345.28	0.38
14	24041	22769	90776585	36009	460433029	0	345.28	0.24
15	28609	22408	109736012	36010	496781371	0	345.28	0.25
16	30876	22568	132471985	36011	533161193	0	345.28	0.25
17	33212	22733	155394917	36011	569570827	0	345.28	0.25
18	35047	38427	190713455	36012	605995357	0	345.28	0.26
19	36951	44081	236353371	36012	642434048	0	345.28	0.26
20	39490	44260	280620288	36012	678898467	0	345.28	0.27
21	50791	72400	344345013	37492	716566703	0	345.28	0.27
22	62159	39424	404230033	66003	786071210	87918671	345.28	0.29
23	72522	39619	444239131	66006	852744756	87918671	345.28	0.30
24	76095	39808	481922607	66013	915258045	87918671	345.28	0.31
25	72857	34480	512059464	88932	993813780	87918671	345.28	0.24
26	69700	64169	578474189	99017	1088618635	110540783	345.28	0.25
27	73520	64363	638374429	99018	1180855313	110540783	345.28	0.26
28	77422	64561	698471524	99018	1273112399	110540783	345.28	0.27
29	81406	64763	758767292	99018	1365386581	110540783	345.28	0.28
30	85472	64969	819263527	99018	1457674527	110540783	345.28	0.28
31	89620	65180	879962002	99018	1549972889	110540783	345.28	0.29
32	93851	65395	940864470	99018	1642278303	110540783	345.28	0.30
33	98164	65614	1001972669	99018	1734587395	110540783	345.28	0.30
34	114231	65838	1063374305	99020	1827036711	110540783	345.28	0.31
35	118968	66083	1129837131	99020	1926733581	110540783	345.28	0.31
36	123800	66329	1196553096	99020	2026442716	110540783	345.28	0.33
37	128728	66578	1263503622	99020	2126126220	110540783	345.28	0.33
38	133752	66833	1330690733	99019	2225779774	110540783	345.28	0.33
39	138871	67092	1398116447	99019	2325399064	110540783	345.28	0.34
40	144086	67357	1465782778	99018	2424979787	110540783	345.28	0.34
41	149397	67626	1533691740	99017	2524517651	110540783	345.28	0.34
42	154803	67900	1601845344	99017	2624008374	110540783	345.28	0.34
43	160305	68179	1670245597	99016	2723447686	110540783	345.28	0.34
44	182145	68464	1738963867	99016	2822941591	110540783	345.28	0.34
45	187747	68753	1808029890	99015	2922511860	110540783	345.28	0.34
46	193444	69042	1877349607	99014	3022025972	110540783	345.28	0.36
47	199237	69335	1946909950	99013	3121455795	110540783	345.28	0.36
48	205126	69634	2016712918	99012	3220797183	110540783	345.28	0.36
49	211109	69937	2086760505	99011	3320045990	110540783	345.28	0.36
50	217189	70245	2157054702	99009	3419198077	110540783	345.28	0.36
51	223363	70558	2227597499	99008	3518249315	110540783	345.28	0.35
52	229634	70876	2298390882	99007	3617195579	110540783	345.28	0.35
53	235999	71199	2369436833	99005	3716032755	110540783	345.28	0.35
54	242460	71527	2440737333	99004	3814756734	110540783	345.28	0.35
55	249017	71859	2512294355	99002	3913363413	110540783	345.28	0.35
56	255669	72197	2584109874	99001	4011848696	110540783	345.28	0.35

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 30 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	4530.00	1130.00	36000.00	0.00
2.00	43.82	60460.00	10140.00	0.00	4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = 40562	La = 0	---
---	---	Pb = -3181	Tb = -30422	Lb = 0	---
3.00	43.82	60460.00	10140.00	0.00	-4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = -42010	La = 0	---
---	---	Pb = -5454	Tb = 52150	Lb = 0	---
4.00	37.02	52220.00	8640.00	63000.00	4.75
---	---	---	Ft = 87143	Fp = -8213	---
---	---	Pa = 51046	Ta = 13824	La = 69261	---
---	---	Pb = 1174	Tb = -5184	Lb = -6261	---
5.00	37.02	60460.00	10140.00	0.00	-4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = -42010	La = 0	---
---	---	Pb = -5454	Tb = 52150	Lb = 0	---
6.00	30.22	60460.00	10140.00	0.00	4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = 40562	La = 0	---
---	---	Pb = -3181	Tb = -30422	Lb = 0	---
7.00	30.22	60460.00	10140.00	0.00	-4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = -42010	La = 0	---
---	---	Pb = -5454	Tb = 52150	Lb = 0	---

Pagina 66

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	5332	1232	1451442	36028	41341118	0	345.28	0.09
3	6172	1330	2797856	36032	76066072	-0	345.28	0.15
4	7049	1433	4253011	36037	110834112	0	345.28	0.19
5	7965	1540	5821613	36041	145644288	0	345.28	0.23
6	8919	1653	7508353	36046	180495507	0	345.28	0.26
7	76488	-573	8645024	36392	218819488	0	345.28	0.31
8	144095	672	5484781	36731	260431678	0	345.28	0.35
9	145162	795	7986248	36724	301883472	0	345.28	0.38
10	146268	920	10613528	36713	343163230	0	345.28	0.40
11	143094	16185	24576576	36678	384065988	0	345.28	0.41
12	142927	22902	49974411	36656	424731054	0	345.28	0.42
13	144991	23187	75755999	37048	470728132	0	345.28	0.44
14	207402	20556	99434233	36905	515151951	0	345.28	0.29
15	269882	-4666	50771397	106379	631035287	196297635	345.28	0.33
16	272150	-4514	49456709	106351	746047061	196297635	345.28	0.36
17	274485	-4359	48298675	106320	860785160	196297635	345.28	0.39
18	274749	37040	80524196	102193	972000555	196297635	345.28	0.42
19	275081	42925	128154436	99978	1079198767	192540581	345.28	0.44
20	277620	43094	173867452	99944	1186668796	192540581	345.28	0.45
21	346804	37707	216669357	100126	1296006160	192540581	345.28	0.47
22	416057	42146	258584729	100286	1407003773	192540581	345.28	0.49
23	426420	42330	304910862	100251	1517689626	192540581	345.28	0.51
24	429993	42658	349728463	100634	1624347743	192540581	345.28	0.52
25	429330	62126	407729264	100136	1726303809	192540581	345.28	0.39
26	428750	64562	471756332	100086	1827829686	192540581	345.28	0.40
27	432570	64742	535133825	100047	1929031549	192540581	345.28	0.40
28	436472	64927	598612277	100008	2029909589	192540581	345.28	0.41
29	440456	65116	662189518	99970	2130464502	192540581	345.28	0.41
30	444522	65309	725864079	99932	2230697348	192540581	345.28	0.41
31	448670	65507	789635100	99894	2330609478	192540581	345.28	0.42
32	452901	65708	853502251	99857	2430202459	192540581	345.28	0.42
33	457214	65914	917465659	99820	2529478016	192540581	345.28	0.42
34	473281	66132	981614382	99804	2628637329	192540581	345.28	0.42
35	478018	66358	1050860954	99751	2735088493	192540581	345.28	0.42
36	482850	66594	1120285375	99726	2841324477	192540581	345.28	0.44
37	487778	66829	1189804305	99685	2947156291	192540581	345.28	0.44
38	492802	67068	1259420079	99644	3052587830	192540581	345.28	0.44
39	497921	67313	1329135187	99604	3157622574	192540581	345.28	0.44
40	503136	67563	1398952363	99564	3262263901	192540581	345.28	0.44
41	508447	67818	1468874541	99526	3366515067	192540581	345.28	0.44
42	513853	68079	1538904826	99488	3470379198	192540581	345.28	0.43
43	519355	68344	1609046466	99451	3573859273	192540581	345.28	0.43
44	541195	68620	1679374518	99428	3677108013	192540581	345.28	0.43
45	546797	68893	1749893787	99384	3780054933	192540581	345.28	0.43
46	552494	69170	1820558156	99354	3882681753	192540581	345.28	0.44
47	558287	69450	1891325910	99317	3984896300	192540581	345.28	0.44
48	564176	69736	1962200989	99280	4086701843	192540581	345.28	0.44
49	570159	70026	2033187281	99244	4188101210	192540581	345.28	0.43
50	576239	70321	2104288704	99209	4289097035	192540581	345.28	0.43
51	582413	70622	2175509197	99175	4389691764	192540581	345.28	0.43
52	588684	70928	2246852710	99142	4489887653	192540581	345.28	0.43
53	595049	71239	2318323199	99109	4589686777	192540581	345.28	0.42
54	601510	71555	2389924619	99077	4689091030	192540581	345.28	0.42
55	608067	71876	2461660914	99046	4788102133	192540581	345.28	0.42
56	614719	72202	2533536021	99015	4886721635	192540581	345.28	0.41

Pagina 67

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 31 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	1130.00	36000.00	0.00
2.00	43.82	0.00	10140.00	0.00	4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 10140	Lb = 0	---
3.00	43.82	0.00	10140.00	0.00	-4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = -724	La = 0	---
---	---	Pb = -1136	Tb = 10864	Lb = 0	---
4.00	37.02	0.00	8640.00	63000.00	4.75
---	---	---	Ft = 32853	Fp = 37714	---
---	---	Pa = 12651	Ta = -4487	La = 29985	---
---	---	Pb = -12651	Tb = 13127	Lb = 33015	---
5.00	37.02	0.00	10140.00	0.00	-4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = -724	La = 0	---
---	---	Pb = -1136	Tb = 10864	Lb = 0	---
6.00	30.22	0.00	10140.00	0.00	4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 10140	Lb = 0	---
7.00	30.22	0.00	10140.00	0.00	-4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = -724	La = 0	---
---	---	Pb = -1136	Tb = 10864	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	1223	1388021	36000	41076620	0	345.28	0.09
3	1642	1320	2671619	36001	75530688	-0	345.28	0.14
4	2519	1421	4064627	36001	110022307	0	345.28	0.19
5	3435	1527	5571803	36002	144551049	0	345.28	0.23
6	4389	1638	7197892	36002	179116093	0	345.28	0.26
7	7748	525	8186650	36004	213813264	0	345.28	0.29
8	11146	1150	6671223	36006	248635110	0	345.28	0.31
9	12214	1274	8057931	36006	283483014	0	345.28	0.33
10	13319	1403	9582308	36007	318355255	0	345.28	0.34
11	13894	14649	20885457	36007	353229871	0	345.28	0.35
12	17477	22679	44835106	36008	388208302	0	345.28	0.37
13	19541	22829	67862478	36015	424902951	0	345.28	0.38
14	30366	25083	92401558	36022	461514975	0	345.28	0.24
15	41260	17924	147003475	66004	528371117	84984428	345.28	0.27
16	43528	18083	165470874	66005	594988461	84984428	345.28	0.28
17	45863	18248	184119909	66005	661634006	84984428	345.28	0.30
18	41373	15682	198188471	87551	744702910	84984428	345.28	0.31
19	36951	42581	247091369	99015	846761570	104796548	345.28	0.34
20	39490	42760	289867902	99015	945749705	104796548	345.28	0.36
21	44465	40125	330942562	99016	1044824668	104796548	345.28	0.37
22	49508	42410	371349378	99017	1143976565	104796548	345.28	0.39
23	59871	42605	414160005	99020	1243320279	104796548	345.28	0.40
24	63444	42793	454404624	99028	1336231854	104796548	345.28	0.41
25	66531	59749	507091099	99021	1428659170	104796548	345.28	0.32
26	69700	64169	567963687	99021	1521099716	104796548	345.28	0.33
27	73520	64362	627858517	99021	1613561364	104796548	345.28	0.33
28	77422	64561	687950271	99021	1706040508	104796548	345.28	0.34
29	81406	64763	748240776	99022	1798533533	104796548	345.28	0.34
30	85472	64969	808731833	99022	1891036817	104796548	345.28	0.35
31	89620	65180	869425220	99022	1983546737	104796548	345.28	0.35
32	93851	65395	930322698	99022	2076059665	104796548	345.28	0.35
33	98164	65614	991426010	99022	2168571976	104796548	345.28	0.36
34	114231	65838	1052822324	99024	2261242587	104796548	345.28	0.36
35	118968	66083	1119279681	99024	2361166872	104796548	345.28	0.36
36	123800	66328	1185990256	99024	2461100114	104796548	345.28	0.38
37	128728	66578	1252935608	99023	2560998786	104796548	345.28	0.38
38	133752	66833	1320117764	99023	2660858415	104796548	345.28	0.38
39	138871	67092	1387538744	99022	2760674531	104796548	345.28	0.38
40	144086	67357	1455200568	99021	2860442675	104796548	345.28	0.38
41	149397	67626	1523105253	99021	2960158397	104796548	345.28	0.38
42	154803	67900	1591254813	99020	3059817260	104796548	345.28	0.38
43	160305	68179	1659651261	99019	3159414836	104796548	345.28	0.38
44	182145	68464	1728365616	99020	3259071486	104796548	345.28	0.38
45	187747	68753	1797428066	99018	3358790350	104796548	345.28	0.38
46	193444	69042	1866744440	99017	3458443500	104796548	345.28	0.39
47	199237	69335	1936301747	99016	3557999560	104796548	345.28	0.39
48	205126	69634	2006101988	99014	3657454307	104796548	345.28	0.39
49	211109	69937	2076147161	99013	3756803511	104796548	345.28	0.39
50	217189	70245	2146439258	99011	3856042945	104796548	345.28	0.39
51	223363	70558	2216980270	99009	3955168385	104796548	345.28	0.39
52	229634	70876	2287772187	99008	4054175611	104796548	345.28	0.38
53	235999	71199	2358816993	99006	4153060405	104796548	345.28	0.38
54	242460	71527	2430116671	99004	4251818555	104796548	345.28	0.38
55	249017	71859	2501673198	99003	4350445849	104796548	345.28	0.38
56	255669	72197	2573488549	99001	4448938082	104796548	345.28	0.38

Pagina 69

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 32 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	9060.00	2260.00	8000.00	0.00
2.00	43.82	52220.00	8640.00	63000.00	4.75
---	---	---	Ft = 87143	Fp = -8213	---
---	---	Pa = 51046	Ta = 13824	La = 69261	---
---	---	Pb = 1174	Tb = -5184	Lb = -6261	---
3.00	43.82	60460.00	10140.00	0.00	-4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = -42010	La = 0	---
---	---	Pb = -5454	Tb = 52150	Lb = 0	---
4.00	37.02	52220.00	8640.00	63000.00	4.75
---	---	---	Ft = 87143	Fp = -8213	---
---	---	Pa = 51046	Ta = 13824	La = 69261	---
---	---	Pb = 1174	Tb = -5184	Lb = -6261	---
5.00	37.02	60460.00	10140.00	0.00	-4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = -42010	La = 0	---
---	---	Pb = -5454	Tb = 52150	Lb = 0	---
6.00	30.22	60460.00	10140.00	0.00	4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = 40562	La = 0	---
---	---	Pb = -3181	Tb = -30422	Lb = 0	---
7.00	30.22	60460.00	10140.00	0.00	-4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = -42010	La = 0	---
---	---	Pb = -5454	Tb = 52150	Lb = 0	---

Pagina 70

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	9862	2366	2748315	8066	9753788	0	345.28	0.02
3	10702	2464	5177618	8072	18078783	-0	345.28	0.04
4	11579	2566	7710363	8077	26456282	0	345.28	0.05
5	12495	2673	10350902	8083	34887610	0	345.28	0.06
6	13449	2785	13103583	8089	43374114	0	345.28	0.07
7	74720	-13288	5941760	9175	56127921	0	345.28	0.09
8	136029	-25003	-54168185	78141	141781301	190162466	345.28	0.22
9	137097	-24880	-76948918	78133	223940382	190162466	345.28	0.30
10	138202	-24753	-99553085	78120	305997618	190162466	345.28	0.37
11	137206	10575	-95621059	74670	385315783	190162466	345.28	0.42
12	139217	22478	-69467985	71817	460320395	186972055	345.28	0.46
13	141281	22732	-44965691	72307	543679970	186972055	345.28	0.50
14	203692	20116	-22366930	72133	625175390	186972055	345.28	0.34
15	266172	-5121	-72247308	141675	778869313	383269690	345.28	0.40
16	268440	-4967	-74725137	141640	931644617	383269690	345.28	0.45
17	270775	-4809	-76995769	141602	1084088875	383269690	345.28	0.49
18	271039	36594	-45830604	137465	1232919698	383269690	345.28	0.52
19	271371	42483	787803	135240	1377637203	379512637	345.28	0.54
20	273910	42654	45529839	135198	1522549419	379512637	345.28	0.57
21	343094	37256	87273639	135433	1669936940	379512637	345.28	0.59
22	412347	41685	128061090	135641	1819531285	379512637	345.28	0.62
23	422710	41872	173299841	135598	1968738138	379512637	345.28	0.64
24	426283	42174	216920792	136088	2112377470	379512637	345.28	0.65
25	425620	61677	273996756	135452	2249881271	379512637	345.28	0.49
26	425040	64117	337132282	135388	2386829724	379512637	345.28	0.50
27	428860	64301	399644913	135339	2523362051	379512637	345.28	0.51
28	432762	64488	462283988	135290	2659477593	379512637	345.28	0.51
29	436746	64680	525046222	135242	2795176427	379512637	345.28	0.52
30	440812	64876	587929107	135193	2930459177	379512637	345.28	0.52
31	444960	65076	650930820	135146	3065326906	379512637	345.28	0.52
32	449191	65281	714050130	135098	3199781015	379512637	345.28	0.53
33	453504	65489	777286325	135051	3333823168	379512637	345.28	0.53
34	469571	65708	840719037	135031	3467719208	379512637	345.28	0.53
35	474308	65938	909222508	134963	3611484910	379512637	345.28	0.53
36	479140	66176	977918691	134932	3754972117	379512637	345.28	0.55
37	484068	66414	1046732321	134879	3897931894	379512637	345.28	0.55
38	489092	66656	1115664844	134826	4040368772	379512637	345.28	0.55
39	494211	66904	1184717951	134775	4182286781	379512637	345.28	0.55
40	499426	67157	1253893625	134725	4323689859	379512637	345.28	0.55
41	504737	67414	1323194102	134676	4464581815	379512637	345.28	0.55
42	510143	67677	1392621834	134627	4604966316	379512637	345.28	0.54
43	515645	67945	1462179460	134580	4744846864	379512637	345.28	0.54
44	537485	68222	1531935776	134550	4884425876	379512637	345.28	0.54
45	543087	68498	1601903731	134494	5023614201	379512637	345.28	0.54
46	548784	68778	1672031498	134455	5162381756	379512637	345.28	0.55
47	554577	69060	1742280753	134407	5300606607	379512637	345.28	0.55
48	560466	69348	1812654914	134360	5438292712	379512637	345.28	0.55
49	566449	69640	1883157397	134315	5575443473	379512637	345.28	0.54
50	572529	69938	1953791677	134270	5712062054	379512637	345.28	0.54
51	578703	70241	2024561275	134226	5848151386	379512637	345.28	0.54
52	584974	70549	2095469751	134183	5983714164	379512637	345.28	0.53
53	591339	70862	2166520695	134140	6118752856	379512637	345.28	0.53
54	597800	71180	2237717714	134099	6253269704	379512637	345.28	0.52
55	604357	71503	2309064432	134059	6387266731	379512637	345.28	0.52
56	611009	71831	2380564477	134020	6520745745	379512637	345.28	0.52

Pagina 71

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 33 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	2260.00	8000.00	0.00
2.00	43.82	0.00	8640.00	63000.00	4.75
---	---	---	Ft = 32853	Fp = 37714	---
---	---	Pa = 12651	Ta = -4487	La = 29985	---
---	---	Pb = -12651	Tb = 13127	Lb = 33015	---
3.00	43.82	0.00	10140.00	0.00	-4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = -724	La = 0	---
---	---	Pb = -1136	Tb = 10864	Lb = 0	---
4.00	37.02	0.00	8640.00	63000.00	4.75
---	---	---	Ft = 32853	Fp = 37714	---
---	---	Pa = 12651	Ta = -4487	La = 29985	---
---	---	Pb = -12651	Tb = 13127	Lb = 33015	---
5.00	37.02	0.00	10140.00	0.00	-4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = -724	La = 0	---
---	---	Pb = -1136	Tb = 10864	Lb = 0	---
6.00	30.22	0.00	10140.00	0.00	4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 10140	Lb = 0	---
7.00	30.22	0.00	10140.00	0.00	-4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = -724	La = 0	---
---	---	Pb = -1136	Tb = 10864	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	2353	2677447	8001	9156832	0	345.28	0.02
3	1642	2450	5042676	8001	16871907	0	345.28	0.03
4	2519	2551	7518575	8002	24626478	0	345.28	0.05
5	3435	2657	10109895	8003	32421687	0	345.28	0.05
6	4389	2768	12821356	8003	40258588	0	345.28	0.06
7	14074	15219	23767975	8308	48716453	0	345.28	0.08
8	23797	-2204	49468195	38003	87531207	82328289	345.28	0.13
9	24865	-2079	47851956	38004	124892215	82328289	345.28	0.16
10	25970	-1951	46368923	38004	162284847	82328289	345.28	0.19
11	20220	-5268	40885990	56042	212476504	82328289	345.28	0.22
12	17477	22309	68060014	71012	284686996	99152327	345.28	0.28
13	19541	22460	90737425	71021	356247421	99152327	345.28	0.32
14	30366	24714	114923813	71027	427718830	99152327	345.28	0.23
15	41260	17555	169175964	101011	529523000	184136755	345.28	0.27
16	43528	17714	187292752	101011	631105858	184136755	345.28	0.30
17	45863	17879	205590358	101012	732732410	184136755	345.28	0.33
18	41373	15313	219304737	122557	850742114	184136755	345.28	0.36
19	36951	42211	267851122	134020	987701558	203948875	345.28	0.39
20	39490	42391	310270758	134020	1121602806	203948875	345.28	0.42
21	44465	39756	350988610	134022	1255618964	203948875	345.28	0.44
22	49508	42040	391038593	134023	1389737595	203948875	345.28	0.47
23	59871	42235	433493128	134027	1524106619	203948875	345.28	0.49
24	63444	42424	473409261	134037	1649746940	203948875	345.28	0.50
25	66531	59380	525763633	134027	1774766133	203948875	345.28	0.39
26	69700	63799	586303829	134028	1899804776	203948875	345.28	0.40
27	73520	63993	645866038	134028	2024872924	203948875	345.28	0.41
28	77422	64191	705624939	134029	2149965814	203948875	345.28	0.41
29	81406	64393	765582354	134029	2275078665	203948875	345.28	0.42
30	85472	64600	825740081	134029	2400206679	203948875	345.28	0.43
31	89620	64811	886099896	134029	2525345051	203948875	345.28	0.43
32	93851	65025	946663557	134029	2650488968	203948875	345.28	0.44
33	98164	65244	1007432808	134029	2775633615	203948875	345.28	0.44
34	114231	65469	1068495509	134032	2900985942	203948875	345.28	0.44
35	118968	65714	1134592496	134032	3036154143	203948875	345.28	0.45
36	123800	65959	1200942478	134032	3171335673	203948875	345.28	0.47
37	128728	66209	1267526850	134031	3306473667	203948875	345.28	0.47
38	133752	66463	1334347649	134030	3441562129	203948875	345.28	0.47
39	138871	66723	1401406904	134029	3576595063	203948875	345.28	0.47
40	144086	66987	1468706640	134028	3711566491	203948875	345.28	0.47
41	149397	67256	1536248882	134027	3846470450	203948875	345.28	0.47
42	154803	67530	1604035653	134026	3981300987	203948875	345.28	0.47
43	160305	67809	1672068973	134025	4116052169	203948875	345.28	0.47
44	182145	68094	1740420238	134026	4250881677	203948875	345.28	0.47
45	187747	68383	1809118550	134024	4385800549	203948875	345.28	0.47
46	193444	68672	1878070483	134022	4520633956	203948875	345.28	0.49
47	199237	68965	1947262974	134021	4655340613	203948875	345.28	0.49
48	205126	69264	2016698038	134019	4789914830	203948875	345.28	0.48
49	211109	69567	2086377682	134017	4924350914	203948875	345.28	0.48
50	217189	69875	2156303909	134015	5058643174	203948875	345.28	0.48
51	223363	70188	2226478722	134012	5192785927	203948875	345.28	0.48
52	229634	70506	2296904119	134010	5326773498	203948875	345.28	0.48
53	235999	70829	2367582095	134008	5460600215	203948875	345.28	0.47
54	242460	71157	2438514642	134006	5594260413	203948875	345.28	0.47
55	249017	71489	2509703749	134003	5727748432	203948875	345.28	0.47
56	255669	71827	2581151397	134001	5861058619	203948875	345.28	0.47

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 34 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2680.00	-1900.00	29500.00	0.00
2.00	43.82	44590.00	-24620.00	0.00	4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = 32207	La = 0	---
---	---	Pb = -5943	Tb = -56827	Lb = 0	---
3.00	43.82	44590.00	-24620.00	0.00	-4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = -28691	La = 0	---
---	---	Pb = -426	Tb = 4071	Lb = 0	---
4.00	37.02	44590.00	-24620.00	0.00	4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = 32207	La = 0	---
---	---	Pb = -5943	Tb = -56827	Lb = 0	---
5.00	37.02	44590.00	-24620.00	0.00	-4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = -28691	La = 0	---
---	---	Pb = -426	Tb = 4071	Lb = 0	---
6.00	30.22	38990.00	-21280.00	54500.00	4.75
---	---	---	Ft = 82796	Fp = -24270	---
---	---	Pa = 30444	Ta = -13427	La = 75816	---
---	---	Pb = 8546	Tb = -7853	Lb = -21316	---
7.00	30.22	44590.00	-24620.00	0.00	-4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = -28691	La = 0	---
---	---	Pb = -426	Tb = 4071	Lb = 0	---

Pagina 74

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	3482	-2139	-2519644	29377	33629922	0	345.28	0.07
3	4322	-2496	-5058816	29349	61802312	0	345.28	0.12
4	5199	-2871	-7986400	29322	89974694	0	345.28	0.16
5	6115	-3262	-11319776	29296	118147072	0	345.28	0.19
6	7069	-3671	-15076328	29271	146319451	0	345.28	0.22
7	57635	3706	-15414042	27692	174487716	0	345.28	0.25
8	108238	2635	-3264200	26223	202655643	0	345.28	0.27
9	109306	2169	-5036511	26314	230827828	0	345.28	0.29
10	110411	1686	-7301519	26408	259000124	0	345.28	0.30
11	108371	-35698	-37429184	26589	287172790	0	345.28	0.31
12	109337	-52227	-95585839	26688	315345254	0	345.28	0.33
13	111401	-50234	-151767205	25027	344515921	0	345.28	0.35
14	163107	-50571	-207881362	25643	373701626	0	345.28	0.24
15	214881	-46925	-244343379	24576	402876978	0	345.28	0.25
16	217149	-47584	-298890899	24680	432055316	0	345.28	0.26
17	219484	-48272	-354090789	24782	461233673	0	345.28	0.27
18	218704	-92343	-444506771	24948	490412216	0	345.28	0.29
19	217991	-102709	-556253452	25107	519590759	-0	345.28	0.31
20	220530	-103496	-665705912	25198	548769133	-0	345.28	0.33
21	262666	-140840	-801740330	28274	580468314	0	345.28	0.36
22	304871	-144863	-984689270	99749	692178831	222294281	345.28	0.41
23	315234	-145620	-1138045652	99770	796343697	222294281	345.28	0.45
24	318807	-143183	-1281366662	97948	893229423	222294281	345.28	0.48
25	326523	-132734	-1412137226	85196	979393507	222294281	345.28	0.37
26	334320	-151966	-1564383322	78736	1054999626	207688512	345.28	0.39
27	338140	-152911	-1713287579	78859	1132279392	207688512	345.28	0.41
28	342042	-153884	-1862922422	78986	1209559201	207688512	345.28	0.42
29	346026	-154882	-2013303376	79115	1286839048	207688512	345.28	0.43
30	350092	-155906	-2164445969	79247	1364118927	207688512	345.28	0.44
31	354240	-156955	-2316365733	79382	1441398833	207688512	345.28	0.45
32	358471	-158028	-2469078197	79519	1518678763	207688512	345.28	0.46
33	362784	-159124	-2622598896	79657	1595958714	207688512	345.28	0.47
34	378851	-160004	-2776942590	79664	1673238216	207688512	345.28	0.48
35	383588	-161380	-2944423214	79898	1756606014	207688512	345.28	0.49
36	388420	-162483	-3112880732	79980	1839974500	207688512	345.28	0.51
37	393348	-163783	-3282336188	80159	1923344550	207688512	345.28	0.52
38	398372	-165108	-3452806501	80339	2006714612	207688512	345.28	0.52
39	403491	-166457	-3624311176	80520	2090084685	207688512	345.28	0.53
40	408706	-167831	-3796869720	80702	2173454766	207688512	345.28	0.53
41	414017	-169229	-3970501638	80885	2256824854	207688512	345.28	0.53
42	419423	-170651	-4145226439	81069	2340194948	207688512	345.28	0.54
43	424925	-172097	-4321063631	81254	2423565046	207688512	345.28	0.54
44	446765	-173389	-4498031492	81344	2506934460	207688512	345.28	0.54
45	452367	-174982	-4676453545	81584	2590444850	207688512	345.28	0.54
46	458064	-176426	-4856026884	81743	2673953604	207688512	345.28	0.56
47	463857	-177988	-5036776470	81953	2757463747	207688512	345.28	0.56
48	469746	-179573	-5218719304	82165	2840973890	207688512	345.28	0.56
49	475729	-181182	-5401874885	82377	2924484032	207688512	345.28	0.56
50	481809	-182814	-5586262715	82590	3007994173	207688512	345.28	0.56
51	487983	-184470	-5771902294	82804	3091504313	207688512	345.28	0.56
52	494254	-186149	-5958813125	83018	3175014451	207688512	345.28	0.56
53	500619	-187853	-6147014707	83234	3258524587	207688512	345.28	0.56
54	507080	-189580	-6336526543	83451	3342034721	207688512	345.28	0.56
55	513637	-191331	-6527368134	83669	3425544853	207688512	345.28	0.56
56	520289	-193106	-6719558981	83889	3509054982	207688512	345.28	0.56

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 35 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-1900.00	29500.00	0.00
2.00	43.82	0.00	-24620.00	0.00	4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = 1758	La = 0	---
---	---	Pb = -2758	Tb = -26378	Lb = 0	---
3.00	43.82	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---
4.00	37.02	0.00	-24620.00	0.00	4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = 1758	La = 0	---
---	---	Pb = -2758	Tb = -26378	Lb = 0	---
5.00	37.02	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---
6.00	30.22	0.00	-21280.00	54500.00	4.75
---	---	---	Ft = 48077	Fp = 14880	---
---	---	Pa = 8087	Ta = -21906	La = 42025	---
---	---	Pb = -8087	Tb = 626	Lb = 12475	---
7.00	30.22	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-2241	-2519648	29473	33629982	0	345.28	0.07
3	1642	-2598	-5058825	29445	61802429	-0	345.28	0.12
4	2519	-2973	-7986413	29417	89974852	0	345.28	0.16
5	3435	-3364	-11319794	29389	118147260	0	345.28	0.19
6	4389	-3773	-15076349	29363	146319659	0	345.28	0.21
7	8560	-1099	-17343937	29241	174491790	0	345.28	0.24
8	12768	-2653	-13596384	29128	202663896	0	345.28	0.25
9	13836	-3114	-17047747	29113	230836276	0	345.28	0.27
10	14941	-3592	-20991812	29099	259008664	0	345.28	0.28
11	14706	-35975	-48862550	29122	287181182	0	345.28	0.29
12	17477	-55592	-107529719	29071	315353442	0	345.28	0.31
13	19541	-55681	-163714571	28752	344530154	0	345.28	0.34
14	24852	-56036	-220161251	28941	373709880	0	345.28	0.22
15	30231	-55230	-267089819	28842	402887777	0	345.28	0.24
16	32499	-55808	-323377087	28816	432065870	0	345.28	0.25
17	34834	-56407	-380316565	28791	461243967	0	345.28	0.26
18	35859	-94765	-467578393	28795	490422144	0	345.28	0.27
19	36951	-108757	-580136272	28798	519600321	-0	345.28	0.30
20	39490	-109422	-689589843	28775	548778427	-0	345.28	0.32
21	47940	-91199	-786930934	30720	579354642	-0	345.28	0.33
22	56459	-132381	-907186312	70559	654282043	123218694	345.28	0.36
23	66822	-132908	-1040552535	70423	725026027	123218694	345.28	0.39
24	70395	-132886	-1165283409	69999	790827984	123218694	345.28	0.41
25	70006	-166653	-1316449617	79117	862915798	123218694	345.28	0.33
26	69700	-159234	-1463134102	82966	941175146	131766857	345.28	0.35
27	73520	-159965	-1612038793	82945	1018454967	131766857	345.28	0.37
28	77422	-160719	-1761673975	82927	1095734795	131766857	345.28	0.38
29	81406	-161495	-1912055189	82912	1173014629	131766857	345.28	0.39
30	85472	-162294	-2063197975	82900	1250294468	131766857	345.28	0.41
31	89620	-163115	-2215117871	82891	1327574312	131766857	345.28	0.42
32	93851	-163959	-2367830418	82885	1404854161	131766857	345.28	0.43
33	98164	-164825	-2521351155	82882	1482134016	131766857	345.28	0.44
34	114231	-165480	-2675694880	82754	1559413441	131766857	345.28	0.45
35	118968	-166517	-2843178031	82787	1642782666	131766857	345.28	0.45
36	123800	-167474	-3011637249	82777	1726152058	131766857	345.28	0.48
37	128728	-168510	-3181092562	82798	1809521905	131766857	345.28	0.49
38	133752	-169573	-3351562704	82824	1892891759	131766857	345.28	0.49
39	138871	-170663	-3523067187	82853	1976261619	131766857	345.28	0.50
40	144086	-171779	-3695625521	82886	2059631484	131766857	345.28	0.50
41	149397	-172923	-3869257215	82922	2143001355	131766857	345.28	0.51
42	154803	-174093	-4043981780	82962	2226371230	131766857	345.28	0.51
43	160305	-175290	-4219818727	83005	2309741110	131766857	345.28	0.51
44	182145	-176339	-4396786364	82959	2393110340	131766857	345.28	0.51
45	187747	-177640	-4575207870	83035	2476620350	131766857	345.28	0.52
46	193444	-178886	-4754782402	83083	2560129707	131766857	345.28	0.54
47	199237	-180197	-4935531695	83153	2643639618	131766857	345.28	0.54
48	205126	-181535	-5117474234	83228	2727149533	131766857	345.28	0.54
49	211109	-182900	-5300629521	83305	2810659451	131766857	345.28	0.54
50	217189	-184292	-5485017059	83387	2894169372	131766857	345.28	0.54
51	223363	-185712	-5670656348	83471	2977679296	131766857	345.28	0.54
52	229634	-187158	-5857566890	83560	3061189223	131766857	345.28	0.54
53	235999	-188632	-6045768187	83651	3144699153	131766857	345.28	0.54
54	242460	-190132	-6235279742	83746	3228209085	131766857	345.28	0.54
55	249017	-191660	-6426121055	83845	3311719019	131766857	345.28	0.54
56	255669	-193216	-6618311628	83947	3395228955	131766857	345.28	0.54

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 36 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2680.00	-1900.00	29500.00	0.00
2.00	43.82	44590.00	-24620.00	0.00	4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = 32207	La = 0	---
---	---	Pb = -5943	Tb = -56827	Lb = 0	---
3.00	43.82	44590.00	-24620.00	0.00	-4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = -28691	La = 0	---
---	---	Pb = -426	Tb = 4071	Lb = 0	---
4.00	37.02	38990.00	-21280.00	54500.00	4.75
---	---	---	Ft = 82796	Fp = -24270	---
---	---	Pa = 30444	Ta = -13427	La = 75816	---
---	---	Pb = 8546	Tb = -7853	Lb = -21316	---
5.00	37.02	44590.00	-24620.00	0.00	-4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = -28691	La = 0	---
---	---	Pb = -426	Tb = 4071	Lb = 0	---
6.00	30.22	44590.00	-24620.00	0.00	4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = 32207	La = 0	---
---	---	Pb = -5943	Tb = -56827	Lb = 0	---
7.00	30.22	44590.00	-24620.00	0.00	-4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = -28691	La = 0	---
---	---	Pb = -426	Tb = 4071	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	3482	-2134	-2519644	29353	33629922	0	345.28	0.07
3	4322	-2490	-5058816	29320	61802312	-0	345.28	0.12
4	5199	-2863	-7986400	29287	89974694	0	345.28	0.16
5	6115	-3253	-11319776	29255	118147072	0	345.28	0.19
6	7069	-3660	-15076328	29224	146319451	0	345.28	0.22
7	57635	3795	-15414042	27309	174487716	0	345.28	0.25
8	108238	2801	-3264200	25504	202655643	0	345.28	0.27
9	109306	2337	-5036511	25589	230827828	0	345.28	0.29
10	110411	1855	-7301519	25676	259000124	0	345.28	0.30
11	108371	-35532	-37429184	25872	287172790	0	345.28	0.31
12	109337	-52060	-95585839	25965	315345254	0	345.28	0.33
13	111401	-49956	-151767205	23824	344515921	0	345.28	0.35
14	153062	-54382	-210317880	24888	373715090	0	345.28	0.24
15	194792	-92986	-355756554	99570	478561403	214875317	345.28	0.31
16	197060	-93670	-455439874	99671	582726268	214875317	345.28	0.35
17	199395	-94394	-555775707	99792	686891449	214875317	345.28	0.39
18	205859	-83152	-645641982	85908	780339630	214875317	345.28	0.42
19	212391	-99457	-754607284	78553	861420524	202083795	345.28	0.45
20	214930	-100291	-860756591	78716	944503731	202083795	345.28	0.48
21	267111	-85894	-958256470	77718	1027582699	202083795	345.28	0.50
22	319360	-95486	-1052144213	76831	1110661748	202083795	345.28	0.52
23	329723	-96279	-1157061544	76951	1193744576	202083795	345.28	0.53
24	333296	-93737	-1255326867	74728	1271019278	202083795	345.28	0.54
25	333767	-145534	-1390187493	77503	1348314466	202083795	345.28	0.42
26	334320	-152031	-1540206435	77739	1425594656	202083795	345.28	0.43
27	338140	-152973	-1689110675	77915	1502874691	202083795	345.28	0.45
28	342042	-153942	-1838745502	78091	1580154749	202083795	345.28	0.46
29	346026	-154938	-1989126441	78267	1657434824	202083795	345.28	0.47
30	350092	-155959	-2140269020	78444	1734714914	202083795	345.28	0.48
31	354240	-157005	-2292188771	78620	1811995016	202083795	345.28	0.48
32	358471	-158075	-2444901224	78797	1889275127	202083795	345.28	0.49
33	362784	-159168	-2598421911	78974	1966555246	202083795	345.28	0.50
34	378851	-160047	-2752765602	78997	2043834798	202083795	345.28	0.50
35	383588	-161421	-2920246247	79281	2127202284	202083795	345.28	0.51
36	388420	-162522	-3088703774	79388	2210570631	202083795	345.28	0.54
37	393348	-163819	-3258159219	79605	2293940861	202083795	345.28	0.54
38	398372	-165142	-3428629521	79822	2377311091	202083795	345.28	0.55
39	403491	-166489	-3600134185	80039	2460681320	202083795	345.28	0.55
40	408706	-167860	-3772692719	80255	2544051546	202083795	345.28	0.55
41	414017	-169256	-3946324629	80471	2627421770	202083795	345.28	0.55
42	419423	-170676	-4121049422	80687	2710791990	202083795	345.28	0.55
43	424925	-172120	-4296886606	80902	2794162206	202083795	345.28	0.56
44	446765	-173411	-4473854466	81009	2877531628	202083795	345.28	0.56
45	452367	-175001	-4652276509	81284	2961042167	202083795	345.28	0.56
46	458064	-176444	-4831849854	81467	3044550831	202083795	345.28	0.58
47	463857	-178004	-5012599434	81707	3128061079	202083795	345.28	0.58
48	469746	-179587	-5194542261	81947	3211571320	202083795	345.28	0.58
49	475729	-181194	-5377697836	82187	3295081554	202083795	345.28	0.58
50	481809	-182824	-5562085660	82428	3378591783	202083795	345.28	0.58
51	487983	-184479	-5747725234	82668	3462102004	202083795	345.28	0.58
52	494254	-186156	-5934636060	82909	3545612220	202083795	345.28	0.58
53	500619	-187858	-6122837637	83150	3629122430	202083795	345.28	0.57
54	507080	-189584	-6312349469	83392	3712632633	202083795	345.28	0.57
55	513637	-191333	-6503191055	83634	3796142831	202083795	345.28	0.57
56	520289	-193107	-6695381898	83877	3879653023	202083795	345.28	0.57

Pagina 79

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 37 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-1900.00	29500.00	0.00
2.00	43.82	0.00	-24620.00	0.00	4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = 1758	La = 0	---
---	---	Pb = -2758	Tb = -26378	Lb = 0	---
3.00	43.82	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---
4.00	37.02	0.00	-21280.00	54500.00	4.75
---	---	---	Ft = 48077	Fp = 14880	---
---	---	Pa = 8087	Ta = -21906	La = 42025	---
---	---	Pb = -8087	Tb = 626	Lb = 12475	---
5.00	37.02	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---
6.00	30.22	0.00	-24620.00	0.00	4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = 1758	La = 0	---
---	---	Pb = -2758	Tb = -26378	Lb = 0	---
7.00	30.22	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-2240	-2519648	29468	33629982	0	345.28	0.07
3	1642	-2598	-5058825	29435	61802429	-0	345.28	0.12
4	2519	-2972	-7986413	29402	89974852	0	345.28	0.16
5	3435	-3363	-11319794	29370	118147260	0	345.28	0.19
6	4389	-3772	-15076349	29338	146319659	0	345.28	0.21
7	8560	-1097	-17343937	29193	174491790	0	345.28	0.24
8	12768	-2650	-13596384	29056	202663896	0	345.28	0.25
9	13836	-3110	-17047747	29034	230836276	0	345.28	0.27
10	14941	-3588	-20991812	29014	259008664	0	345.28	0.28
11	14706	-35970	-48862550	29039	287181182	0	345.28	0.29
12	17477	-55587	-107529719	28972	315353442	0	345.28	0.31
13	19541	-55672	-163714571	28572	344530154	0	345.28	0.34
14	27516	-54967	-219521063	28737	373716852	0	345.28	0.23
15	35559	-78700	-273244792	70551	444839626	119106330	345.28	0.25
16	37827	-79281	-352937919	70519	515583946	119106330	345.28	0.29
17	40163	-79884	-433283268	70490	586328285	119106330	345.28	0.31
18	38523	-109221	-538119602	78709	663345162	119106330	345.28	0.35
19	36951	-105414	-642954615	83113	747600400	126592689	345.28	0.38
20	39490	-106082	-749104639	83089	830683772	126592689	345.28	0.40
21	45276	-99832	-851296350	82998	913766907	126592689	345.28	0.43
22	51130	-105543	-952056252	82917	996850048	126592689	345.28	0.45
23	61493	-106069	-1058713033	82756	1079932849	126592689	345.28	0.47
24	65066	-106103	-1158600293	82284	1157211648	126592689	345.28	0.48
25	67342	-148230	-1289520500	82755	1234494208	126592689	345.28	0.37
26	69700	-159246	-1440557947	82759	1311774109	126592689	345.28	0.39
27	73520	-159978	-1589462637	82740	1389053945	126592689	345.28	0.40
28	77422	-160731	-1739097819	82725	1466333787	126592689	345.28	0.42
29	81406	-161507	-1889479032	82713	1543613635	126592689	345.28	0.43
30	85472	-162306	-2040621817	82704	1620893488	126592689	345.28	0.44
31	89620	-163127	-2192541712	82698	1698173346	126592689	345.28	0.45
32	93851	-163970	-2345254258	82696	1775453209	126592689	345.28	0.46
33	98164	-164836	-2498774995	82697	1852733077	126592689	345.28	0.46
34	114231	-165493	-2653118725	82553	1930012410	126592689	345.28	0.47
35	118968	-166528	-2820601884	82595	2013381509	126592689	345.28	0.48
36	123800	-167486	-2989061107	82588	2096750825	126592689	345.28	0.51
37	128728	-168521	-3158516418	82617	2180120698	126592689	345.28	0.51
38	133752	-169584	-3328986559	82651	2263490577	126592689	345.28	0.52
39	138871	-170673	-3500491040	82688	2346860460	126592689	345.28	0.52
40	144086	-171789	-3673049372	82728	2430230349	126592689	345.28	0.52
41	149397	-172932	-3846681065	82772	2513600242	126592689	345.28	0.53
42	154803	-174102	-4021405629	82820	2596970138	126592689	345.28	0.53
43	160305	-175298	-4197242574	82872	2680340039	126592689	345.28	0.53
44	182145	-176347	-4374210216	82823	2763709185	126592689	345.28	0.53
45	187747	-177648	-4552631720	82911	2847219237	126592689	345.28	0.53
46	193444	-178893	-4732206256	82966	2930728536	126592689	345.28	0.55
47	199237	-180204	-4912955547	83048	3014238472	126592689	345.28	0.55
48	205126	-181541	-5094898085	83133	3097748411	126592689	345.28	0.55
49	211109	-182905	-5278053371	83221	3181258352	126592689	345.28	0.55
50	217189	-184297	-5462440907	83314	3264768295	126592689	345.28	0.55
51	223363	-185715	-5648080194	83409	3348278240	126592689	345.28	0.55
52	229634	-187161	-5834990735	83509	3431788187	126592689	345.28	0.55
53	235999	-188634	-6023192032	83611	3515298136	126592689	345.28	0.55
54	242460	-190134	-6212703585	83718	3598808086	126592689	345.28	0.55
55	249017	-191661	-6403544897	83828	3682318039	126592689	345.28	0.55
56	255669	-193216	-6595735469	83941	3765827992	126592689	345.28	0.55

Pagina 81

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 38 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	5360.00	-3800.00	6000.00	0.00
2.00	43.82	38990.00	-21280.00	54500.00	4.75
---	---	---	Ft = 82796	Fp = -24270	---
---	---	Pa = 30444	Ta = -13427	La = 75816	---
---	---	Pb = 8546	Tb = -7853	Lb = -21316	---
3.00	43.82	44590.00	-24620.00	0.00	-4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = -28691	La = 0	---
---	---	Pb = -426	Tb = 4071	Lb = 0	---
4.00	37.02	38990.00	-21280.00	54500.00	4.75
---	---	---	Ft = 82796	Fp = -24270	---
---	---	Pa = 30444	Ta = -13427	La = 75816	---
---	---	Pb = 8546	Tb = -7853	Lb = -21316	---
5.00	37.02	44590.00	-24620.00	0.00	-4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = -28691	La = 0	---
---	---	Pb = -426	Tb = 4071	Lb = 0	---
6.00	30.22	44590.00	-24620.00	0.00	4.75
---	---	---	Ft = 59924	Fp = -57137	---
---	---	Pa = 50533	Ta = 32207	La = 0	---
---	---	Pb = -5943	Tb = -56827	Lb = 0	---
7.00	30.22	44590.00	-24620.00	0.00	-4.75
---	---	---	Ft = 53381	Fp = -4093	---
---	---	Pa = 45016	Ta = -28691	La = 0	---
---	---	Pb = -426	Tb = 4071	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	6162	-3868	-4685631	5694	6839972	0	345.28	0.02
3	7002	-4217	-9039287	5654	12569938	-0	345.28	0.03
4	7879	-4582	-13781356	5612	18299906	0	345.28	0.04
5	8795	-4964	-18929219	5569	24029875	0	345.28	0.05
6	9749	-5363	-24500259	5525	29759846	0	345.28	0.06
7	50270	-19973	-40913334	4318	35972469	0	345.28	0.08
8	90829	-44575	-124749994	77451	117865952	208159514	345.28	0.23
9	91897	-45089	-171916525	77463	195997240	208159514	345.28	0.32
10	93002	-45635	-219576013	77504	274129021	208159514	345.28	0.39
11	98206	-35191	-258700690	65734	343828095	208159514	345.28	0.45
12	106417	-50106	-313724714	55843	399226628	197297221	345.28	0.49
13	108481	-47793	-368477751	53001	459056387	197297221	345.28	0.53
14	150142	-52375	-425609678	54350	518918971	197297221	345.28	0.36
15	191872	-90869	-569623302	128633	654425717	412172538	345.28	0.44
16	194140	-91615	-667882887	128769	789251989	412172538	345.28	0.49
17	196475	-92395	-766794918	128929	924078654	412172538	345.28	0.53
18	202939	-81190	-855237235	115049	1048188264	412172538	345.28	0.56
19	209471	-97531	-962778551	107704	1159930628	399381016	345.28	0.59
20	212010	-98409	-1067503924	107919	1273675470	399381016	345.28	0.61
21	264191	-83938	-1163578932	106556	1387414593	399381016	345.28	0.63
22	316440	-93475	-1256041916	105344	1501153815	399381016	345.28	0.65
23	326803	-94307	-1359535231	105499	1614898139	399381016	345.28	0.67
24	330376	-91635	-1456475299	102499	1720690998	399381016	345.28	0.68
25	330847	-143651	-1590013645	106238	1826511357	399381016	345.28	0.52
26	331400	-150182	-1738707997	106555	1932311595	399381016	345.28	0.53
27	335220	-151150	-1886287602	106790	2038111627	399381016	345.28	0.54
28	339122	-152143	-2034597779	107025	2143911690	399381016	345.28	0.55
29	343106	-153161	-2183654056	107262	2249711778	399381016	345.28	0.56
30	347172	-154203	-2333471962	107498	2355511886	399381016	345.28	0.57
31	351320	-155269	-2484067029	107735	2461312012	399381016	345.28	0.58
32	355551	-156357	-2635454789	107973	2567112151	399381016	345.28	0.58
33	359864	-157468	-2787650775	108210	2672912301	399381016	345.28	0.59
34	375931	-158353	-2940669703	108238	2778711683	399381016	345.28	0.59
35	380668	-159748	-3106721031	108620	2892845780	399381016	345.28	0.60
36	385500	-160861	-3273749321	108764	3006981038	399381016	345.28	0.63
37	390428	-162175	-3441775668	109057	3121118839	399381016	345.28	0.63
38	395452	-163513	-3610816865	109349	3235256640	399381016	345.28	0.63
39	400571	-164875	-3780892417	109641	3349394440	399381016	345.28	0.63
40	405786	-166260	-3952021831	109933	3463532238	399381016	345.28	0.63
41	411097	-167669	-4124224615	110224	3577670032	399381016	345.28	0.63
42	416503	-169101	-4297520277	110515	3691807822	399381016	345.28	0.63
43	422005	-170557	-4471928326	110806	3805945607	399381016	345.28	0.63
44	443845	-171853	-4647466997	110949	3920082311	399381016	345.28	0.63
45	449447	-173457	-4824457515	111321	4034412201	399381016	345.28	0.63
46	455144	-174909	-5002599241	111569	4148739552	399381016	345.28	0.66
47	460937	-176480	-5181917276	111894	4263069048	399381016	345.28	0.65
48	466826	-178074	-5362428554	112219	4377398535	399381016	345.28	0.65
49	472809	-179690	-5544152578	112544	4491728013	399381016	345.28	0.65
50	478889	-181330	-5727108847	112869	4606057484	399381016	345.28	0.65
51	485063	-182994	-5911316863	113194	4720386946	399381016	345.28	0.65
52	491334	-184680	-6096796128	113521	4834716400	399381016	345.28	0.65
53	497699	-186390	-6283566143	113847	4949045845	399381016	345.28	0.64
54	504160	-188124	-6471646409	114175	5063375283	399381016	345.28	0.64
55	510717	-189882	-6661056429	114504	5177704714	399381016	345.28	0.64
56	517369	-191663	-6851815703	114833	5292034136	399381016	345.28	0.64

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 39 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-3800.00	6000.00	0.00
2.00	43.82	0.00	-21280.00	54500.00	4.75
---	---	---	Ft = 48077	Fp = 14880	---
---	---	Pa = 8087	Ta = -21906	La = 42025	---
---	---	Pb = -8087	Tb = 626	Lb = 12475	---
3.00	43.82	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---
4.00	37.02	0.00	-21280.00	54500.00	4.75
---	---	---	Ft = 48077	Fp = 14880	---
---	---	Pa = 8087	Ta = -21906	La = 42025	---
---	---	Pb = -8087	Tb = 626	Lb = 12475	---
5.00	37.02	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---
6.00	30.22	0.00	-24620.00	0.00	4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = 1758	La = 0	---
---	---	Pb = -2758	Tb = -26378	Lb = 0	---
7.00	30.22	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-4138	-4685647	5966	6839996	0	345.28	0.02
3	1642	-4492	-9039321	5930	12569985	-0	345.28	0.03
4	2519	-4864	-13781404	5893	18299970	0	345.28	0.04
5	3435	-5253	-18929278	5855	24029951	0	345.28	0.05
6	4389	-5658	-24500327	5816	29759931	0	345.28	0.06
7	11224	2631	-25027852	5950	35757718	0	345.28	0.06
8	18097	-27966	-34049568	47278	83706623	115383731	345.28	0.12
9	19164	-28426	-61914513	47244	129570062	115383731	345.28	0.17
10	20270	-28905	-90272180	47212	175433535	115383731	345.28	0.21
11	17370	-54303	-138133377	54160	226232669	115383731	345.28	0.27
12	17477	-54112	-191051285	59830	285401347	121740990	345.28	0.32
13	19541	-54178	-245811525	59309	345239768	121740990	345.28	0.37
14	27516	-53487	-300194109	59509	405088092	121740990	345.28	0.26
15	35559	-77214	-352493492	101260	506872507	240847320	345.28	0.30
16	37827	-77796	-430762349	101213	608278496	240847320	345.28	0.34
17	40163	-78402	-509683427	101172	709684513	240847320	345.28	0.37
18	38523	-107745	-613095523	109410	817363143	240847320	345.28	0.41
19	36951	-103943	-716506290	113835	932280156	248333679	345.28	0.45
20	39490	-104613	-821232033	113800	1046025241	248333679	345.28	0.48
21	45276	-98362	-921999444	113678	1159770030	248333679	345.28	0.50
22	51130	-104072	-1021335049	113569	1273514822	248333679	345.28	0.53
23	61493	-104596	-1126567513	113354	1387259175	248333679	345.28	0.55
24	65066	-104621	-1225129929	112726	1493057598	248333679	345.28	0.56
25	67342	-146761	-1354725506	113348	1598860877	248333679	345.28	0.44
26	69700	-157779	-1504438164	113352	1704660733	248333679	345.28	0.45
27	73520	-158511	-1652018060	113326	1810460505	248333679	345.28	0.47
28	77422	-159266	-1800328447	113304	1916260286	248333679	345.28	0.48
29	81406	-160043	-1949384866	113287	2022060073	248333679	345.28	0.49
30	85472	-160842	-2099202857	113274	2127859869	248333679	345.28	0.50
31	89620	-161664	-2249797958	113265	2233659671	248333679	345.28	0.51
32	93851	-162508	-2401185710	113261	2339459481	248333679	345.28	0.52
33	98164	-163375	-2553381652	113261	2445259296	248333679	345.28	0.53
34	114231	-164031	-2706400572	113069	2551058406	248333679	345.28	0.53
35	118968	-165068	-2872454517	113124	2665194703	248333679	345.28	0.54
36	123800	-166026	-3039484534	113113	2779331285	248333679	345.28	0.57
37	128728	-167063	-3207510653	113152	2893468605	248333679	345.28	0.57
38	133752	-168126	-3376551602	113195	3007605933	248333679	345.28	0.58
39	138871	-169217	-3546626890	113244	3121743268	248333679	345.28	0.58
40	144086	-170334	-3717756030	113298	3235880609	248333679	345.28	0.58
41	149397	-171478	-3889958530	113356	3350017957	248333679	345.28	0.59
42	154803	-172649	-4063253900	113420	3464155311	248333679	345.28	0.59
43	160305	-173847	-4237661652	113489	3578292670	248333679	345.28	0.59
44	182145	-174895	-4413200089	113422	3692429021	248333679	345.28	0.59
45	187747	-176198	-4590190002	113540	3806758248	248333679	345.28	0.59
46	193444	-177444	-4768332936	113613	3921086470	248333679	345.28	0.61
47	199237	-178755	-4947650634	113722	4035415543	248333679	345.28	0.61
48	205126	-180094	-5128161578	113836	4149744620	248333679	345.28	0.61
49	211109	-181459	-5309885271	113955	4264073700	248333679	345.28	0.61
50	217189	-182852	-5492841213	114078	4378402783	248333679	345.28	0.61
51	223363	-184271	-5677048906	114207	4492731869	248333679	345.28	0.61
52	229634	-185718	-5862527853	114340	4607060959	248333679	345.28	0.61
53	235999	-187191	-6049297555	114478	4721390051	248333679	345.28	0.61
54	242460	-188692	-6237377513	114621	4835719145	248333679	345.28	0.61
55	249017	-190220	-6426787230	114769	4950048242	248333679	345.28	0.61
56	255669	-191776	-6617546208	114921	5064377341	248333679	345.28	0.60

Pagina 85

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 40 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2580.00	-1900.00	27500.00	0.00
2.00	43.82	43840.00	-24620.00	0.00	4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = 31695	La = 0	---
---	---	Pb = -5889	Tb = -56315	Lb = 0	---
3.00	43.82	43840.00	-24620.00	0.00	-4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = -28179	La = 0	---
---	---	Pb = -372	Tb = 3559	Lb = 0	---
4.00	37.02	43840.00	-24620.00	0.00	4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = 31695	La = 0	---
---	---	Pb = -5889	Tb = -56315	Lb = 0	---
5.00	37.02	43840.00	-24620.00	0.00	-4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = -28179	La = 0	---
---	---	Pb = -372	Tb = 3559	Lb = 0	---
6.00	30.22	38370.00	-21280.00	52000.00	4.75
---	---	---	Ft = 80696	Fp = -24941	---
---	---	Pa = 29552	Ta = -13263	La = 73909	---
---	---	Pb = 8818	Tb = -8017	Lb = -21909	---
7.00	30.22	43840.00	-24620.00	0.00	-4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = -28179	La = 0	---
---	---	Pb = -372	Tb = 3559	Lb = 0	---

Pagina 86

05/05/2000

99-cei

EUT - 5400 - C



SIDERPALI S.P.A.

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	3382	-2143	-2519644	27388	31349930	0	345.28	0.07
3	4222	-2500	-5058817	27362	57612329	-0	345.28	0.11
4	5099	-2875	-7986400	27336	83874720	0	345.28	0.15
5	6015	-3266	-11319777	27311	110137108	0	345.28	0.18
6	6969	-3675	-15076329	27288	136399495	0	345.28	0.20
7	56731	3671	-15414049	25828	162658110	0	345.28	0.23
8	106531	2569	-3264202	24469	188916415	0	345.28	0.26
9	107599	2104	-5036514	24552	215178625	0	345.28	0.27
10	108704	1621	-7301523	24637	241440936	0	345.28	0.28
11	106717	-35761	-37429196	24803	267703586	0	345.28	0.29
12	107737	-52288	-95585874	24892	293966047	0	345.28	0.31
13	109801	-50332	-151767301	23349	321159140	0	345.28	0.33
14	160703	-50660	-207881436	23920	348366057	0	345.28	0.23
15	211674	-47043	-244343485	22930	375563459	0	345.28	0.24
16	213942	-47700	-298891020	23024	402763601	0	345.28	0.25
17	216277	-48386	-354090921	23117	429963760	0	345.28	0.26
18	215550	-92454	-444506916	23268	457164090	0	345.28	0.28
19	214891	-102816	-556253617	23414	484364419	-0	345.28	0.30
20	217430	-103601	-665706096	23496	511564594	0	345.28	0.32
21	258719	-141153	-801865641	26527	541222319	-0	345.28	0.35
22	300076	-144340	-984235625	96233	648879661	216705116	345.28	0.40
23	310439	-145093	-1136922430	96249	749180969	216705116	345.28	0.44
24	314012	-142705	-1279620710	94551	842473234	216705116	345.28	0.47
25	321890	-132244	-1409740950	81240	924743845	216705116	345.28	0.37
26	329850	-152094	-1562131535	74591	996163367	201692491	345.28	0.39
27	333670	-153035	-1711035798	74705	1069303144	201692491	345.28	0.40
28	337572	-154004	-1860670645	74822	1142442963	201692491	345.28	0.41
29	341556	-154998	-2011051602	74942	1215582816	201692491	345.28	0.43
30	345622	-156018	-2162194198	75064	1288722699	201692491	345.28	0.44
31	349770	-157063	-2314113962	75189	1361862609	201692491	345.28	0.45
32	354001	-158131	-2466826427	75316	1435002540	201692491	345.28	0.46
33	358314	-159223	-2620347125	75445	1508142491	201692491	345.28	0.46
34	374381	-160099	-2774690819	75449	1581282018	201692491	345.28	0.47
35	379118	-161470	-2942171487	75667	1660183708	201692491	345.28	0.48
36	383950	-162570	-3110629035	75743	1739086040	201692491	345.28	0.51
37	388878	-163866	-3280084488	75909	1817989833	201692491	345.28	0.51
38	393902	-165186	-3450554797	76077	1896893638	201692491	345.28	0.52
39	399021	-166530	-3622059468	76246	1975797452	201692491	345.28	0.52
40	404236	-167900	-3794618007	76415	2054701275	201692491	345.28	0.52
41	409547	-169293	-3968249921	76586	2133605104	201692491	345.28	0.53
42	414953	-170711	-4142974717	76758	2212508939	201692491	345.28	0.53
43	420455	-172153	-4318811904	76931	2291412777	201692491	345.28	0.53
44	442295	-173440	-4495779761	77014	2370315970	201692491	345.28	0.53
45	447897	-175028	-4674201804	77238	2449352582	201692491	345.28	0.53
46	453594	-176469	-4853775163	77386	2528387663	201692491	345.28	0.55
47	459387	-178026	-5034524744	77583	2607424044	201692491	345.28	0.56
48	465276	-179607	-5216467572	77781	2686460425	201692491	345.28	0.56
49	471259	-181211	-5399623148	77979	2765496805	201692491	345.28	0.56
50	477339	-182839	-5584010973	78179	2844533185	201692491	345.28	0.56
51	483513	-184491	-5769650547	78379	2923569563	201692491	345.28	0.56
52	489784	-186167	-5956561372	78580	3002605940	201692491	345.28	0.56
53	496149	-187866	-6144762949	78782	3081642315	201692491	345.28	0.56
54	502610	-189589	-6334274780	78986	3160678688	201692491	345.28	0.55
55	509167	-191336	-6525116366	79190	3239715060	201692491	345.28	0.55
56	515819	-193108	-6717307208	79396	3318751429	201692491	345.28	0.55

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 41 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-1900.00	27500.00	0.00
2.00	43.82	0.00	-24620.00	0.00	4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = 1758	La = 0	---
---	---	Pb = -2758	Tb = -26378	Lb = 0	---
3.00	43.82	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---
4.00	37.02	0.00	-24620.00	0.00	4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = 1758	La = 0	---
---	---	Pb = -2758	Tb = -26378	Lb = 0	---
5.00	37.02	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---
6.00	30.22	0.00	-21280.00	52000.00	4.75
---	---	---	Ft = 46642	Fp = 13682	---
---	---	Pa = 7525	Ta = -21723	La = 40583	---
---	---	Pb = -7525	Tb = 443	Lb = 11417	---
7.00	30.22	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-2241	-2519648	27474	31349983	0	345.28	0.07
3	1642	-2598	-5058825	27448	57612433	-0	345.28	0.11
4	2519	-2973	-7986413	27422	83874862	0	345.28	0.15
5	3435	-3364	-11319794	27396	110137276	0	345.28	0.18
6	4389	-3773	-15076349	27371	136399682	0	345.28	0.20
7	8560	-1099	-17343937	27258	162661838	0	345.28	0.22
8	12768	-2653	-13596384	27151	188923971	0	345.28	0.24
9	13836	-3114	-17047747	27137	215186359	0	345.28	0.25
10	14941	-3592	-20991812	27124	241448754	0	345.28	0.26
11	14706	-35974	-48862550	27145	267711272	0	345.28	0.27
12	17477	-55592	-107529719	27097	293973548	0	345.28	0.29
13	19541	-55680	-163714571	26798	321172177	0	345.28	0.32
14	24852	-56036	-220161251	26975	348373617	0	345.28	0.21
15	30231	-55229	-267089819	26882	375573352	0	345.28	0.22
16	32499	-55807	-323377087	26857	402773268	0	345.28	0.24
17	34834	-56406	-380316565	26834	429973190	0	345.28	0.25
18	35859	-94765	-467578393	26837	457173185	0	345.28	0.26
19	36951	-108756	-580136272	26839	484373181	-0	345.28	0.29
20	39490	-109421	-689589843	26818	511573110	-0	345.28	0.31
21	47660	-92573	-787866829	28703	540123190	-0	345.28	0.33
22	55897	-132215	-908931263	67181	611502398	118990035	345.28	0.36
23	66260	-132741	-1042116611	67054	678841745	118990035	345.28	0.38
24	69833	-132724	-1166679251	66656	741476916	118990035	345.28	0.41
25	69726	-165524	-1316820911	75006	809864996	118990035	345.28	0.32
26	69700	-159233	-1463754990	78526	883901292	126813391	345.28	0.34
27	73520	-159965	-1612659680	78506	957041123	126813391	345.28	0.36
28	77422	-160719	-1762294863	78488	1030180960	126813391	345.28	0.37
29	81406	-161495	-1912676077	78474	1103320802	126813391	345.28	0.39
30	85472	-162293	-2063818862	78462	1176460649	126813391	345.28	0.40
31	89620	-163115	-2215738759	78454	1249600501	126813391	345.28	0.41
32	93851	-163958	-2368451306	78448	1322740359	126813391	345.28	0.42
33	98164	-164825	-2521972043	78445	1395880221	126813391	345.28	0.43
34	114231	-165480	-2676315767	78325	1469019678	126813391	345.28	0.44
35	118968	-166516	-2843798919	78355	1547922697	126813391	345.28	0.45
36	123800	-167474	-3012258137	78346	1626825873	126813391	345.28	0.47
37	128728	-168510	-3181713449	78366	1705729478	126813391	345.28	0.48
38	133752	-169573	-3352183592	78390	1784633089	126813391	345.28	0.49
39	138871	-170662	-3523688074	78418	1863536706	126813391	345.28	0.49
40	144086	-171779	-3696246408	78448	1942440328	126813391	345.28	0.50
41	149397	-172922	-3869878102	78482	2021343955	126813391	345.28	0.50
42	154803	-174093	-4044602667	78520	2100247587	126813391	345.28	0.50
43	160305	-175290	-4220439614	78561	2179151223	126813391	345.28	0.51
44	182145	-176339	-4397407251	78517	2258054245	126813391	345.28	0.51
45	187747	-177640	-4575828757	78589	2337090505	126813391	345.28	0.51
46	193444	-178886	-4755403289	78634	2416126147	126813391	345.28	0.53
47	199237	-180197	-4936152582	78701	2495162313	126813391	345.28	0.53
48	205126	-181535	-5118095121	78771	2574198481	126813391	345.28	0.53
49	211109	-182900	-5301250409	78844	2653234654	126813391	345.28	0.53
50	217189	-184292	-5485637946	78921	2732270829	126813391	345.28	0.53
51	223363	-185712	-567127235	79001	2811307006	126813391	345.28	0.54
52	229634	-187158	-5858187777	79084	2890343187	126813391	345.28	0.54
53	235999	-188632	-6046389075	79171	2969379370	126813391	345.28	0.54
54	242460	-190132	-6235900629	79261	3048415555	126813391	345.28	0.54
55	249017	-191660	-6426741942	79354	3127451742	126813391	345.28	0.53
56	255669	-193216	-6618932516	79450	3206487932	126813391	345.28	0.53

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 42 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2580.00	-1900.00	27500.00	0.00
2.00	43.82	43840.00	-24620.00	0.00	4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = 31695	La = 0	---
---	---	Pb = -5889	Tb = -56315	Lb = 0	---
3.00	43.82	43840.00	-24620.00	0.00	-4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = -28179	La = 0	---
---	---	Pb = -372	Tb = 3559	Lb = 0	---
4.00	37.02	38370.00	-21280.00	52000.00	4.75
---	---	---	Ft = 80696	Fp = -24941	---
---	---	Pa = 29552	Ta = -13263	La = 73909	---
---	---	Pb = 8818	Tb = -8017	Lb = -21909	---
5.00	37.02	43840.00	-24620.00	0.00	-4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = -28179	La = 0	---
---	---	Pb = -372	Tb = 3559	Lb = 0	---
6.00	30.22	43840.00	-24620.00	0.00	4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = 31695	La = 0	---
---	---	Pb = -5889	Tb = -56315	Lb = 0	---
7.00	30.22	43840.00	-24620.00	0.00	-4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = -28179	La = 0	---
---	---	Pb = -372	Tb = 3559	Lb = 0	---

Pagina 90

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	3382	-2138	-2519644	27366	31349930	0	345.28	0.07
3	4222	-2494	-5058817	27334	57612329	-0	345.28	0.11
4	5099	-2867	-7986400	27303	83874720	0	345.28	0.15
5	6015	-3257	-11319777	27273	110137108	0	345.28	0.18
6	6969	-3664	-15076329	27243	136399495	0	345.28	0.20
7	56731	3758	-15414049	25465	162658110	0	345.28	0.23
8	106531	2731	-3264202	23789	188916415	0	345.28	0.26
9	107599	2267	-5036514	23865	215178625	0	345.28	0.27
10	108704	1785	-7301523	23945	241440936	0	345.28	0.28
11	106717	-35600	-37429196	24125	267703586	0	345.28	0.29
12	107737	-52125	-95585874	24208	293966047	0	345.28	0.31
13	109801	-50062	-151767301	22210	321159140	0	345.28	0.33
14	150615	-54495	-210328472	23207	348379159	0	345.28	0.22
15	191497	-92437	-355369194	96064	449344921	209472688	345.28	0.29
16	193765	-93119	-454382942	96156	549646229	209472688	345.28	0.34
17	196100	-93841	-554049195	96267	649947837	209472688	345.28	0.38
18	202726	-82684	-643269432	81986	739233908	209472688	345.28	0.41
19	209421	-99563	-752375355	74415	815808171	196324847	345.28	0.44
20	211960	-100394	-858524670	74567	894440495	196324847	345.28	0.46
21	263337	-86021	-956024630	73637	973068871	196324847	345.28	0.48
22	314783	-95634	-1049912448	72811	1051697322	196324847	345.28	0.50
23	325146	-96423	-1154829785	72919	1130329283	196324847	345.28	0.52
24	328719	-93926	-1253095188	70843	1203464332	196324847	345.28	0.53
25	329244	-145666	-1387955585	73433	1276618514	196324847	345.28	0.41
26	329850	-152158	-1537974532	73653	1349758688	196324847	345.28	0.42
27	333670	-153096	-1686878778	73816	1422898719	196324847	345.28	0.44
28	337572	-154061	-1836513609	73979	1496038770	196324847	345.28	0.45
29	341556	-155053	-1986894552	74143	1569178838	196324847	345.28	0.46
30	345622	-156070	-2138037134	74307	1642318920	196324847	345.28	0.47
31	349770	-157112	-2289956886	74472	1715459013	196324847	345.28	0.47
32	354001	-158178	-2442669339	74636	1788599114	196324847	345.28	0.48
33	358314	-159267	-2596190026	74801	1861739223	196324847	345.28	0.49
34	374381	-160142	-2750533717	74820	1934878796	196324847	345.28	0.50
35	379118	-161510	-2918014406	75085	2013780190	196324847	345.28	0.50
36	383950	-162609	-3086471962	75184	2092682391	196324847	345.28	0.53
37	388878	-163901	-3255927403	75387	2171586354	196324847	345.28	0.53
38	393902	-165219	-3426397702	75590	2250490316	196324847	345.28	0.54
39	399021	-166561	-3597902363	75792	2329394277	196324847	345.28	0.54
40	404236	-167928	-3770460892	75994	2408298236	196324847	345.28	0.54
41	409547	-169320	-3944092797	76196	2487202193	196324847	345.28	0.54
42	414953	-170736	-4118817586	76397	2566106147	196324847	345.28	0.55
43	420455	-172175	-4294654765	76599	2645010096	196324847	345.28	0.55
44	442295	-173462	-4471622621	76697	2723913295	196324847	345.28	0.55
45	447897	-175047	-4650044655	76954	2802950047	196324847	345.28	0.55
46	453594	-176487	-4829618020	77126	2881985043	196324847	345.28	0.57
47	459387	-178042	-5010367594	77351	2961021522	196324847	345.28	0.57
48	465276	-179621	-5192310416	77576	3040057996	196324847	345.28	0.57
49	471259	-181224	-5375465986	77800	3119094463	196324847	345.28	0.57
50	477339	-182850	-5559853805	78025	3198130925	196324847	345.28	0.57
51	483513	-184500	-5745493374	78251	3277167381	196324847	345.28	0.57
52	489784	-186174	-5932404194	78476	3356203831	196324847	345.28	0.57
53	496149	-187872	-6120605766	78703	3435240275	196324847	345.28	0.57
54	502610	-189593	-6310117593	78929	3514276714	196324847	345.28	0.57
55	509167	-191339	-6500959174	79157	3593313147	196324847	345.28	0.56
56	515819	-193109	-6693150012	79385	3672349575	196324847	345.28	0.56

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 43 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-1900.00	27500.00	0.00
2.00	43.82	0.00	-24620.00	0.00	4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = 1758	La = 0	---
---	---	Pb = -2758	Tb = -26378	Lb = 0	---
3.00	43.82	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---
4.00	37.02	0.00	-21280.00	52000.00	4.75
---	---	---	Ft = 46642	Fp = 13682	---
---	---	Pa = 7525	Ta = -21723	La = 40583	---
---	---	Pb = -7525	Tb = 443	Lb = 11417	---
5.00	37.02	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---
6.00	30.22	0.00	-24620.00	0.00	4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = 1758	La = 0	---
---	---	Pb = -2758	Tb = -26378	Lb = 0	---
7.00	30.22	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---

Pagina 92

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-2240	-2519648	27470	31349983	0	345.28	0.07
3	1642	-2598	-5058825	27439	57612433	-0	345.28	0.11
4	2519	-2972	-7986413	27408	83874862	0	345.28	0.15
5	3435	-3363	-11319794	27378	110137276	0	345.28	0.18
6	4389	-3772	-15076349	27348	136399682	0	345.28	0.20
7	8560	-1096	-17343937	27211	162661838	0	345.28	0.22
8	12768	-2649	-13596384	27082	188923971	0	345.28	0.24
9	13836	-3110	-17047747	27062	215186359	0	345.28	0.25
10	14941	-3587	-20991812	27043	241448754	0	345.28	0.26
11	14706	-35970	-48862550	27066	267711272	0	345.28	0.27
12	17477	-55587	-107529719	27003	293973548	0	345.28	0.29
13	19541	-55671	-163714571	26625	321172177	0	345.28	0.32
14	27235	-55079	-219588898	26788	348380370	0	345.28	0.21
15	34998	-78536	-274902477	67179	416085526	115018800	345.28	0.24
16	37266	-79117	-354414731	67148	483425189	115018800	345.28	0.27
17	39601	-79720	-434579206	67120	550764869	115018800	345.28	0.30
18	38242	-108270	-538510612	74636	623845222	115018800	345.28	0.33
19	36951	-105414	-643561198	78663	703550190	121870383	345.28	0.36
20	39490	-106082	-749711221	78640	782182666	121870383	345.28	0.39
21	45276	-99832	-851902932	78554	860814920	121870383	345.28	0.41
22	51130	-105542	-952662835	78477	939447179	121870383	345.28	0.43
23	61493	-106069	-1059319615	78325	1018079117	121870383	345.28	0.45
24	65066	-106103	-1159206874	77879	1091217984	121870383	345.28	0.47
25	67342	-148229	-1290127083	78324	1164360397	121870383	345.28	0.36
26	69700	-159246	-1441164531	78327	1237500303	121870383	345.28	0.38
27	73520	-159977	-1590069220	78310	1310640148	121870383	345.28	0.39
28	77422	-160731	-1739704402	78295	1383779998	121870383	345.28	0.41
29	81406	-161507	-1890085615	78284	1456919854	121870383	345.28	0.42
30	85472	-162305	-2041228400	78275	1530059714	121870383	345.28	0.43
31	89620	-163126	-2193148296	78270	1603199580	121870383	345.28	0.44
32	93851	-163970	-2345860842	78268	1676339450	121870383	345.28	0.45
33	98164	-164836	-2499381578	78269	1749479325	121870383	345.28	0.45
34	114231	-165492	-2653725308	78133	1822618695	121870383	345.28	0.46
35	118968	-166528	-2821208467	78172	1901521593	121870383	345.28	0.47
36	123800	-167485	-2989667690	78166	1980424697	121870383	345.28	0.50
37	128728	-168521	-3159123001	78193	2059328326	121870383	345.28	0.50
38	133752	-169583	-3329593142	78225	2138231961	121870383	345.28	0.51
39	138871	-170673	-3501097623	78260	2217135601	121870383	345.28	0.51
40	144086	-171789	-3673655955	78298	2296039245	121870383	345.28	0.51
41	149397	-172931	-3847287648	78340	2374942893	121870383	345.28	0.52
42	154803	-174101	-4022012212	78385	2453846545	121870383	345.28	0.52
43	160305	-175298	-4197849158	78434	2532750201	121870383	345.28	0.52
44	182145	-176347	-4374816799	78387	2611653144	121870383	345.28	0.52
45	187747	-177648	-4553238303	78471	2690689442	121870383	345.28	0.53
46	193444	-178893	-4732812839	78523	2769725030	121870383	345.28	0.55
47	199237	-180204	-4913562130	78600	2848761219	121870383	345.28	0.55
48	205126	-181541	-5095504668	78680	2927797411	121870383	345.28	0.55
49	211109	-182905	-5278659954	78764	3006833604	121870383	345.28	0.55
50	217189	-184297	-5463047490	78851	3085869800	121870383	345.28	0.55
51	223363	-185715	-5648686778	78942	3164905998	121870383	345.28	0.55
52	229634	-187161	-5835597319	79036	3243942198	121870383	345.28	0.55
53	235999	-188634	-6023798615	79133	3322978399	121870383	345.28	0.55
54	242460	-190134	-6213310168	79233	3402014602	121870383	345.28	0.55
55	249017	-191661	-6404151480	79337	3481050807	121870383	345.28	0.55
56	255669	-193216	-6596342053	79445	3560087013	121870383	345.28	0.54

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 44 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	5160.00	-3800.00	5000.00	0.00
2.00	43.82	38370.00	-21280.00	52000.00	4.75
---	---	---	Ft = 80696	Fp = -24941	---
---	---	Pa = 29552	Ta = -13263	La = 73909	---
---	---	Pb = 8818	Tb = -8017	Lb = -21909	---
3.00	43.82	43840.00	-24620.00	0.00	-4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = -28179	La = 0	---
---	---	Pb = -372	Tb = 3559	Lb = 0	---
4.00	37.02	38370.00	-21280.00	52000.00	4.75
---	---	---	Ft = 80696	Fp = -24941	---
---	---	Pa = 29552	Ta = -13263	La = 73909	---
---	---	Pb = 8818	Tb = -8017	Lb = -21909	---
5.00	37.02	43840.00	-24620.00	0.00	-4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = -28179	La = 0	---
---	---	Pb = -372	Tb = 3559	Lb = 0	---
6.00	30.22	43840.00	-24620.00	0.00	4.75
---	---	---	Ft = 58971	Fp = -56622	---
---	---	Pa = 49729	Ta = 31695	La = 0	---
---	---	Pb = -5889	Tb = -56315	Lb = 0	---
7.00	30.22	43840.00	-24620.00	0.00	-4.75
---	---	---	Ft = 52429	Fp = -3578	---
---	---	Pa = 44212	Ta = -28179	La = 0	---
---	---	Pb = -372	Tb = 3559	Lb = 0	---

Pagina 94

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	5962	-3879	-4685631	4720	5699977	0	345.28	0.02
3	6802	-4227	-9039288	4681	10474950	-0	345.28	0.03
4	7679	-4593	-13781358	4642	15249923	0	345.28	0.04
5	8595	-4975	-18929221	4601	20024898	0	345.28	0.05
6	9549	-5374	-24500261	4559	24799874	0	345.28	0.05
7	49222	-20118	-40970193	3472	30045473	0	345.28	0.08
8	88934	-43999	-124338375	74852	109069130	202925741	345.28	0.22
9	90002	-44512	-170858415	74861	184425084	202925741	345.28	0.31
10	91107	-45056	-217871401	74897	259781506	202925741	345.28	0.38
11	96474	-34659	-256361335	62799	326470302	202925741	345.28	0.43
12	104847	-50186	-311516590	52641	378460198	191760869	345.28	0.48
13	106911	-47920	-366269787	49978	434828824	191760869	345.28	0.51
14	147725	-52505	-423412082	51252	491228649	191760869	345.28	0.35
15	188607	-90342	-567027781	123734	621371283	401233557	345.28	0.42
16	190875	-91083	-664617778	123860	750850399	401233557	345.28	0.47
17	193210	-91859	-762860215	124008	880329886	401233557	345.28	0.51
18	199836	-80738	-850656480	109729	998793774	401233557	345.28	0.54
19	206531	-97651	-958338403	102167	1104545890	388085716	345.28	0.57
20	209070	-98525	-1063063776	102367	1212356230	388085716	345.28	0.59
21	260447	-84080	-1159138881	101094	1320161215	388085716	345.28	0.62
22	311893	-93639	-1251601953	99961	1427966295	388085716	345.28	0.63
23	322256	-94465	-1355095265	100103	1535776137	388085716	345.28	0.65
24	325829	-91842	-1452035425	97293	1636049442	388085716	345.28	0.66
25	326354	-143796	-1585573479	100793	1736348535	388085716	345.28	0.51
26	326960	-150321	-1734267829	101090	1836628759	388085716	345.28	0.52
27	330780	-151284	-1881847436	101309	1936908788	388085716	345.28	0.53
28	334682	-152272	-2030157614	101528	2037188847	388085716	345.28	0.54
29	338666	-153286	-2179213891	101749	2137468928	388085716	345.28	0.55
30	342732	-154323	-2329031796	101970	2237749029	388085716	345.28	0.56
31	346880	-155384	-2479626862	102191	2338029146	388085716	345.28	0.56
32	351111	-156468	-2631014619	102413	2438309275	388085716	345.28	0.57
33	355424	-157574	-2783210603	102635	2538589415	388085716	345.28	0.57
34	371491	-158455	-2936229529	102658	2638868823	388085716	345.28	0.58
35	376228	-159843	-3102280904	103015	2747048128	388085716	345.28	0.58
36	381060	-160954	-3269309225	103150	2855228522	388085716	345.28	0.61
37	385988	-162263	-3437335566	103424	2963411302	388085716	345.28	0.61
38	391012	-163595	-3606376756	103697	3071594082	388085716	345.28	0.62
39	396131	-164952	-3776452302	103971	3179776862	388085716	345.28	0.62
40	401346	-166333	-3947581710	104244	3287959638	388085716	345.28	0.62
41	406657	-167737	-4119784489	104517	3396142412	388085716	345.28	0.62
42	412063	-169165	-4293080144	104789	3504325182	388085716	345.28	0.62
43	417565	-170616	-4467488187	105062	3612507947	388085716	345.28	0.62
44	439405	-171907	-4643026853	105195	3720689686	388085716	345.28	0.62
45	445007	-173506	-4820017359	105543	3829054530	388085716	345.28	0.62
46	450704	-174954	-4998159107	105776	3937416988	388085716	345.28	0.64
47	456497	-176520	-5177477134	106081	4045781462	388085716	345.28	0.64
48	462386	-178109	-5357988406	106386	4154145927	388085716	345.28	0.64
49	468369	-179722	-5539712423	106691	4262510384	388085716	345.28	0.64
50	474449	-181357	-5722668686	106997	4370874834	388085716	345.28	0.64
51	480623	-183016	-5906876696	107302	4479239276	388085716	345.28	0.63
52	486894	-184699	-6092355955	107609	4587603710	388085716	345.28	0.63
53	493259	-186405	-6279125964	107916	4695968137	388085716	345.28	0.63
54	499720	-188134	-6467206224	108224	4804332556	388085716	345.28	0.63
55	506277	-189888	-6656616238	108533	4912696969	388085716	345.28	0.63
56	512929	-191665	-6847375507	108843	5021061374	388085716	345.28	0.62

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 45 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-3800.00	5000.00	0.00
2.00	43.82	0.00	-21280.00	52000.00	4.75
---	---	---	Ft = 46642	Fp = 13682	---
---	---	Pa = 7525	Ta = -21723	La = 40583	---
---	---	Pb = -7525	Tb = 443	Lb = 11417	---
3.00	43.82	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---
4.00	37.02	0.00	-21280.00	52000.00	4.75
---	---	---	Ft = 46642	Fp = 13682	---
---	---	Pa = 7525	Ta = -21723	La = 40583	---
---	---	Pb = -7525	Tb = 443	Lb = 11417	---
5.00	37.02	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---
6.00	30.22	0.00	-24620.00	0.00	4.75
---	---	---	Ft = 3271	Fp = -26522	---
---	---	Pa = 2758	Ta = 1758	La = 0	---
---	---	Pb = -2758	Tb = -26378	Lb = 0	---
7.00	30.22	0.00	-24620.00	0.00	-4.75
---	---	---	Ft = -3271	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -24620	Lb = 0	---

Pagina 96

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-4138	-4685647	4968	5699997	0	345.28	0.02
3	1642	-4492	-9039321	4934	10474988	-0	345.28	0.03
4	2519	-4864	-13781404	4900	15249975	0	345.28	0.04
5	3435	-5252	-18929278	4864	20024959	0	345.28	0.04
6	4389	-5658	-24500327	4827	24799942	0	345.28	0.05
7	10943	2019	-25417042	4973	29833559	0	345.28	0.05
8	17535	-27804	-35605462	44900	75378610	111423955	345.28	0.11
9	18603	-28264	-63295770	44867	118909748	111423955	345.28	0.16
10	19708	-28743	-91478800	44837	162440917	111423955	345.28	0.20
11	17089	-53423	-138578219	51188	210489235	111423955	345.28	0.25
12	17477	-54111	-191660030	56367	266197429	117242176	345.28	0.31
13	19541	-54177	-246420268	55874	322574134	117242176	345.28	0.36
14	27235	-53599	-300870693	56073	378960330	117242176	345.28	0.25
15	34998	-77050	-354759928	96405	475843502	232260976	345.28	0.29
16	37266	-77632	-432847912	96361	572361206	232260976	345.28	0.33
17	39601	-78238	-511588115	96321	668878937	232260976	345.28	0.36
18	38242	-106794	-614095281	103854	771137407	232260976	345.28	0.40
19	36951	-103943	-717721619	107898	880020511	239112559	345.28	0.43
20	39490	-104612	-822447362	107865	987831070	239112559	345.28	0.46
21	45276	-98361	-923214772	107749	1095641348	239112559	345.28	0.49
22	51130	-104072	-1022550378	107646	1203451630	239112559	345.28	0.51
23	61493	-104596	-1127782841	107442	1311261497	239112559	345.28	0.53
24	65066	-104620	-1226345256	106848	1411540005	239112559	345.28	0.55
25	67342	-146760	-1355940836	107437	1511823104	239112559	345.28	0.42
26	69700	-157779	-1505653494	107440	1612102967	239112559	345.28	0.44
27	73520	-158511	-1653233390	107415	1712382751	239112559	345.28	0.45
28	77422	-159265	-1801543777	107394	1812662543	239112559	345.28	0.47
29	81406	-160042	-1950600197	107378	1912942341	239112559	345.28	0.48
30	85472	-160842	-2100418187	107366	2013222147	239112559	345.28	0.49
31	89620	-161663	-2251013288	107358	2113501960	239112559	345.28	0.50
32	93851	-162508	-2402401040	107354	2213781779	239112559	345.28	0.51
33	98164	-163375	-2554596982	107354	2314061604	239112559	345.28	0.51
34	114231	-164030	-2707615902	107172	2414340761	239112559	345.28	0.52
35	118968	-165067	-2873669846	107224	2522522123	239112559	345.28	0.53
36	123800	-166025	-3040699863	107214	2630703753	239112559	345.28	0.56
37	128728	-167062	-3208725982	107250	2738886083	239112559	345.28	0.56
38	133752	-168126	-3377766931	107291	2847068419	239112559	345.28	0.56
39	138871	-169216	-3547842220	107337	2955250762	239112559	345.28	0.57
40	144086	-170333	-3718971359	107388	3063433112	239112559	345.28	0.57
41	149397	-171477	-3891173859	107443	3171615467	239112559	345.28	0.57
42	154803	-172648	-4064469230	107504	3279797828	239112559	345.28	0.57
43	160305	-173846	-4238876982	107569	3387980194	239112559	345.28	0.58
44	182145	-174895	-4414415419	107505	3496161606	239112559	345.28	0.58
45	187747	-176197	-4591405332	107617	3604525830	239112559	345.28	0.58
46	193444	-177444	-4769548266	107687	3712889101	239112559	345.28	0.60
47	199237	-178755	-4948865964	107790	3821253179	239112559	345.28	0.60
48	205126	-180094	-5129376908	107898	3929617260	239112559	345.28	0.60
49	211109	-181459	-5311100601	108010	4037981345	239112559	345.28	0.60
50	217189	-182851	-5494056543	108127	4146345432	239112559	345.28	0.60
51	223363	-184271	-5678264237	108249	4254709523	239112559	345.28	0.60
52	229634	-185718	-5863743183	108375	4363073616	239112559	345.28	0.60
53	235999	-187191	-6050512885	108506	4471437711	239112559	345.28	0.60
54	242460	-188692	-6238592843	108641	4579801809	239112559	345.28	0.60
55	249017	-190220	-6428002560	108781	4688165910	239112559	345.28	0.59
56	255669	-191776	-6618761538	108925	4796530012	239112559	345.28	0.59

Pagina 97

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 46 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	4530.00	-1130.00	36000.00	0.00
2.00	43.82	60460.00	-10140.00	0.00	4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = 42010	La = 0	---
---	---	Pb = -5454	Tb = -52150	Lb = 0	---
3.00	43.82	60460.00	-10140.00	0.00	-4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = -40562	La = 0	---
---	---	Pb = -3181	Tb = 30422	Lb = 0	---
4.00	37.02	60460.00	-10140.00	0.00	4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = 42010	La = 0	---
---	---	Pb = -5454	Tb = -52150	Lb = 0	---
5.00	37.02	60460.00	-10140.00	0.00	-4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = -40562	La = 0	---
---	---	Pb = -3181	Tb = 30422	Lb = 0	---
6.00	30.22	52220.00	-8640.00	63000.00	4.75
---	---	---	Ft = 94443	Fp = -22647	---
---	---	Pa = 47089	Ta = 2870	La = 81817	---
---	---	Pb = 5131	Tb = -11510	Lb = -18817	---
7.00	30.22	60460.00	-10140.00	0.00	-4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = -40562	La = 0	---
---	---	Pb = -3181	Tb = 30422	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	5332	-1137	-1376357	35774	41039855	0	345.28	0.09
3	6172	-1220	-2636158	35742	75419672	-0	345.28	0.14
4	7049	-1308	-3992786	35711	109799493	0	345.28	0.19
5	7965	-1400	-5450576	35681	144179320	0	345.28	0.23
6	8919	-1496	-7013860	35654	178559154	0	345.28	0.26
7	76488	1912	-7097357	33127	212932252	0	345.28	0.30
8	144095	1841	-1963394	30780	247304798	0	345.28	0.34
9	145162	1729	-2486116	30941	281684325	0	345.28	0.35
10	146268	1614	-3131663	31106	316064034	0	345.28	0.37
11	143094	-13717	-15169747	31413	350444353	0	345.28	0.38
12	142927	-20454	-38665982	31617	384824452	0	345.28	0.39
13	144991	-19177	-61237080	29066	420419857	0	345.28	0.40
14	213700	-19301	-83684554	29986	456038977	0	345.28	0.26
15	282478	-17423	-97937913	28304	491641657	0	345.28	0.27
16	284745	-17601	-119537233	28491	527249230	0	345.28	0.27
17	287081	-17788	-141299235	28675	562856833	0	345.28	0.27
18	285167	-35859	-177456162	28961	598464742	0	345.28	0.28
19	283321	-40046	-222285984	29235	634072647	-0	345.28	0.28
20	285860	-40269	-266055476	29399	669680272	-0	345.28	0.28
21	345632	-82135	-339036808	32312	708006874	-0	345.28	0.30
22	405472	-76942	-453932467	109069	832677575	239889588	345.28	0.34
23	415835	-77180	-535541893	109180	949206561	239889588	345.28	0.37
24	419408	-75611	-611617824	106378	1057590971	239889588	345.28	0.39
25	424038	-48683	-664307123	96602	1156520113	239889588	345.28	0.30
26	428750	-59200	-725331849	91035	1246122442	226996147	345.28	0.31
27	432570	-59511	-784535688	91240	1337202143	226996147	345.28	0.32
28	436472	-59830	-843921678	91450	1428281911	226996147	345.28	0.32
29	440456	-60156	-903493686	91664	1519361736	226996147	345.28	0.33
30	444522	-60489	-963255580	91880	1610441610	226996147	345.28	0.34
31	448670	-60828	-1023211229	92099	1701521526	226996147	345.28	0.34
32	452901	-61174	-1083364504	92320	1792601478	226996147	345.28	0.34
33	457214	-61526	-1143719275	92543	1883681461	226996147	345.28	0.35
34	473281	-61785	-1204279077	92610	1974760919	226996147	345.28	0.35
35	478018	-62251	-1269853164	92970	2073015237	226996147	345.28	0.35
36	482850	-62575	-1335671124	93105	2171270580	226996147	345.28	0.37
37	487778	-62993	-1401738615	93381	2269528222	226996147	345.28	0.37
38	492802	-63418	-1468059108	93657	2367785882	226996147	345.28	0.37
39	497921	-63848	-1534637462	93934	2466043556	226996147	345.28	0.38
40	503136	-64285	-1601478540	94211	2564301241	226996147	345.28	0.38
41	508447	-64726	-1668587203	94488	2662558935	226996147	345.28	0.38
42	513853	-65174	-1735968315	94765	2760816635	226996147	345.28	0.38
43	519355	-65627	-1803626738	95042	2859074341	226996147	345.28	0.38
44	541195	-66012	-1871566823	95205	2957331239	226996147	345.28	0.38
45	546797	-66524	-1939909765	95555	3055754354	226996147	345.28	0.38
46	552494	-66961	-2008538970	95789	3154175139	226996147	345.28	0.39
47	558287	-67450	-2077462035	96095	3252597903	226996147	345.28	0.39
48	564176	-67944	-2146682566	96400	3351020665	226996147	345.28	0.39
49	570159	-68443	-2216205424	96706	3449443424	226996147	345.28	0.39
50	576239	-68948	-2286035469	97011	3547866181	226996147	345.28	0.38
51	582413	-69459	-2356177564	97316	3646288934	226996147	345.28	0.38
52	588684	-69975	-2426636570	97621	3744711684	226996147	345.28	0.38
53	595049	-70496	-2497417347	97927	3843134429	226996147	345.28	0.38
54	601510	-71023	-2568524759	98232	3941557171	226996147	345.28	0.38
55	608067	-71556	-2639963665	98539	4039979907	226996147	345.28	0.38
56	614719	-72095	-2711738929	98845	4138402640	226996147	345.28	0.37

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 47 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-1130.00	36000.00	0.00
2.00	43.82	0.00	-10140.00	0.00	4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = 724	La = 0	---
---	---	Pb = -1136	Tb = -10864	Lb = 0	---
3.00	43.82	0.00	-10140.00	0.00	-4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -10140	Lb = 0	---
4.00	37.02	0.00	-10140.00	0.00	4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = 724	La = 0	---
---	---	Pb = -1136	Tb = -10864	Lb = 0	---
5.00	37.02	0.00	-10140.00	0.00	-4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -10140	Lb = 0	---
6.00	30.22	0.00	-8640.00	63000.00	4.75
---	---	---	Ft = 43786	Fp = 26315	---
---	---	Pa = 11765	Ta = -13478	La = 39964	---
---	---	Pb = -11765	Tb = 4838	Lb = 23036	---
7.00	30.22	0.00	-10140.00	0.00	-4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -10140	Lb = 0	---

Pagina 100

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-1211	-1376361	35967	41039978	0	345.28	0.09
3	1642	-1295	-2636166	35934	75419913	-0	345.28	0.14
4	2519	-1384	-3992798	35900	109799819	0	345.28	0.19
5	3435	-1477	-5450590	35868	144179707	0	345.28	0.23
6	4389	-1574	-7013877	35836	178559584	0	345.28	0.26
7	7748	-412	-7892297	35720	212939215	0	345.28	0.29
8	11146	-988	-6218872	35612	247318824	0	345.28	0.31
9	12214	-1098	-7433123	35592	281698681	0	345.28	0.33
10	13319	-1211	-8770201	35574	316078546	0	345.28	0.34
11	13894	-14450	-19878800	35575	350458481	0	345.28	0.35
12	17477	-22430	-43585473	35489	384838099	0	345.28	0.36
13	19541	-22380	-66158497	35111	420443578	0	345.28	0.37
14	24041	-22435	-88742749	35358	456052794	0	345.28	0.24
15	28609	-22016	-107307129	35262	491659776	0	345.28	0.24
16	30876	-22151	-129623086	35230	527266937	0	345.28	0.25
17	33212	-22292	-152101635	35200	562874104	0	345.28	0.25
18	35047	-37970	-186959573	35185	598481314	0	345.28	0.25
19	36951	-43609	-232123641	35171	634088527	0	345.28	0.26
20	39490	-43767	-275893739	35144	669695708	-0	345.28	0.26
21	49779	-15680	-300551030	36928	706632249	-0	345.28	0.26
22	60137	-57401	-338232628	74752	785745142	117176452	345.28	0.28
23	70500	-57497	-395893528	74597	860879852	117176452	345.28	0.29
24	74073	-57367	-449696233	74075	930765734	117176452	345.28	0.31
25	71845	-84233	-526218770	90669	1012257052	117176452	345.28	0.24
26	69700	-63434	-580730150	97784	1105145565	132961030	345.28	0.25
27	73520	-63610	-639934123	97759	1196225355	132961030	345.28	0.26
28	77422	-63792	-699320204	97738	1287305152	132961030	345.28	0.27
29	81406	-63981	-758892265	97720	1378384955	132961030	345.28	0.28
30	85472	-64176	-818654182	97706	1469464765	132961030	345.28	0.28
31	89620	-64377	-878609827	97695	1560544582	132961030	345.28	0.29
32	93851	-64585	-938763076	97688	1651624404	132961030	345.28	0.30
33	98164	-64800	-999117801	97684	1742704232	132961030	345.28	0.30
34	114231	-64929	-1059677582	97534	1833783556	132961030	345.28	0.31
35	118968	-65196	-1125253123	97572	1932040144	132961030	345.28	0.31
36	123800	-65431	-1191072030	97560	2030296928	132961030	345.28	0.33
37	128728	-65694	-1257139371	97586	2128554248	132961030	345.28	0.33
38	133752	-65965	-1323459702	97616	2226811575	132961030	345.28	0.33
39	138871	-66244	-1390037888	97650	2325068910	132961030	345.28	0.34
40	144086	-66531	-1456878792	97688	2423326251	132961030	345.28	0.34
41	149397	-66825	-1523987277	97731	2521583598	132961030	345.28	0.34
42	154803	-67127	-1591368208	97778	2619840951	132961030	345.28	0.34
43	160305	-67437	-1659026448	97829	2718098310	132961030	345.28	0.34
44	182145	-67685	-1726966389	97775	2816354902	132961030	345.28	0.34
45	187747	-68030	-1795308978	97864	2914777414	132961030	345.28	0.34
46	193444	-68353	-1863938835	97920	3013199157	132961030	345.28	0.36
47	199237	-68698	-1932861697	98003	3111621552	132961030	345.28	0.36
48	205126	-69052	-2002082026	98091	3210043951	132961030	345.28	0.35
49	211109	-69413	-2071604684	98182	3308466354	132961030	345.28	0.35
50	217189	-69781	-2141434534	98278	3406888761	132961030	345.28	0.35
51	223363	-70158	-2211576436	98378	3505311172	132961030	345.28	0.35
52	229634	-70542	-2282035251	98482	3603733585	132961030	345.28	0.35
53	235999	-70934	-2352815842	98589	3702156002	132961030	345.28	0.35
54	242460	-71334	-2423923071	98701	3800578421	132961030	345.28	0.35
55	249017	-71741	-2495361797	98818	3899000844	132961030	345.28	0.35
56	255669	-72156	-2567136885	98938	3997423268	132961030	345.28	0.35

Pagina 101

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 48 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5
- (-) "

Pressione trasversale del vento = -176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	4530.00	-1130.00	36000.00	0.00
2.00	43.82	60460.00	-10140.00	0.00	4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = 42010	La = 0	---
---	---	Pb = -5454	Tb = -52150	Lb = 0	---
3.00	43.82	60460.00	-10140.00	0.00	-4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = -40562	La = 0	---
---	---	Pb = -3181	Tb = 30422	Lb = 0	---
4.00	37.02	52220.00	-8640.00	63000.00	4.75
---	---	---	Ft = 94443	Fp = -22647	---
---	---	Pa = 47089	Ta = 2870	La = 81817	---
---	---	Pb = 5131	Tb = -11510	Lb = -18817	---
5.00	37.02	60460.00	-10140.00	0.00	-4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = -40562	La = 0	---
---	---	Pb = -3181	Tb = 30422	Lb = 0	---
6.00	30.22	60460.00	-10140.00	0.00	4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = 42010	La = 0	---
---	---	Pb = -5454	Tb = -52150	Lb = 0	---
7.00	30.22	60460.00	-10140.00	0.00	-4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = -40562	La = 0	---
---	---	Pb = -3181	Tb = 30422	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm²]	% Uso
2	5332	-1129	-1376357	35733	41039855	0	345.28	0.09
3	6172	-1211	-2636158	35695	75419672	-0	345.28	0.14
4	7049	-1297	-3992786	35657	109799493	0	345.28	0.19
5	7965	-1388	-5450576	35621	144179320	0	345.28	0.23
6	8919	-1482	-7013860	35586	178559154	0	345.28	0.26
7	76488	2026	-7097357	32552	212932252	0	345.28	0.30
8	144095	2056	-1963394	29698	247304798	-0	345.28	0.34
9	145162	1945	-2486116	29852	281684325	0	345.28	0.35
10	146268	1831	-3131663	30010	316064034	0	345.28	0.37
11	143094	-13505	-15169747	30341	350444353	0	345.28	0.38
12	142927	-20243	-38665982	30548	384824452	0	345.28	0.39
13	144991	-18826	-61237080	27295	420419857	0	345.28	0.40
14	204288	-22595	-85966971	28745	456053545	0	345.28	0.26
15	263652	-56475	-198723245	108670	573316316	231883390	345.28	0.32
16	265920	-56693	-259034925	108863	689845128	231883390	345.28	0.36
17	268256	-56932	-319509471	109084	806374416	231883390	345.28	0.39
18	271634	-31554	-358559039	97014	913443533	231883390	345.28	0.42
19	275081	-38519	-401830462	90708	1009595489	220591499	345.28	0.44
20	277620	-38799	-444116750	90977	1107514899	220591499	345.28	0.45
21	346804	-32534	-482721021	89412	1205427631	220591499	345.28	0.47
22	416057	-36170	-519715984	88019	1303340483	220591499	345.28	0.48
23	426420	-36441	-561129719	88280	1401259555	220591499	345.28	0.49
24	429993	-34856	-599817568	84933	1492331625	220591499	345.28	0.50
25	429330	-56627	-653470465	89171	1583434708	220591499	345.28	0.38
26	428750	-59242	-713249656	89557	1674515073	220591499	345.28	0.38
27	432570	-59550	-772453484	89844	1765595192	220591499	345.28	0.39
28	436472	-59867	-831839463	90130	1856675343	220591499	345.28	0.39
29	440456	-60191	-891411460	90416	1947755521	220591499	345.28	0.40
30	444522	-60522	-951173345	90701	2038835721	220591499	345.28	0.40
31	448670	-60860	-1011128987	90984	2129915938	220591499	345.28	0.40
32	452901	-61204	-1071282254	91267	2220996168	220591499	345.28	0.40
33	457214	-61555	-1131637017	91548	2312076408	220591499	345.28	0.40
34	473281	-61812	-1192196816	91647	2403155983	220591499	345.28	0.40
35	478018	-62276	-1257770916	92080	2501409863	220591499	345.28	0.41
36	482850	-62599	-1323588880	92254	2599665020	220591499	345.28	0.42
37	487778	-63016	-1389656364	92588	2697922935	220591499	345.28	0.42
38	492802	-63439	-1455976849	92919	2796180847	220591499	345.28	0.42
39	497921	-63868	-1522555197	93248	2894438755	220591499	345.28	0.42
40	503136	-64302	-1589396268	93575	2992696659	220591499	345.28	0.42
41	508447	-64743	-1656504926	93900	3090954556	220591499	345.28	0.42
42	513853	-65189	-1723886033	94223	3189212446	220591499	345.28	0.42
43	519355	-65641	-1791544451	94544	3287470329	220591499	345.28	0.41
44	541195	-66026	-1859484534	94736	3385727274	220591499	345.28	0.41
45	546797	-66536	-1927827470	95136	3484150606	220591499	345.28	0.41
46	552494	-66972	-1996456679	95405	3582571273	220591499	345.28	0.42
47	558287	-67459	-2065379740	95752	3680994190	220591499	345.28	0.42
48	564176	-67952	-2134600266	96099	3779417097	220591499	345.28	0.42
49	570159	-68451	-2204123120	96443	3877839992	220591499	345.28	0.42
50	576239	-68954	-2273953162	96787	3976262876	220591499	345.28	0.41
51	582413	-69464	-2344095253	97129	4074685750	220591499	345.28	0.41
52	588684	-69979	-2414554256	97470	4173108613	220591499	345.28	0.41
53	595049	-70499	-2485335031	97811	4271531465	220591499	345.28	0.41
54	601510	-71026	-2556442439	98151	4369954308	220591499	345.28	0.41
55	608067	-71558	-2627881343	98490	4468377140	220591499	345.28	0.40
56	614719	-72095	-2699656604	98829	4566799963	220591499	345.28	0.40

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 49 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 - (-) "

Pressione trasversale del vento = -176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-1130.00	36000.00	0.00
2.00	43.82	0.00	-10140.00	0.00	4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = 724	La = 0	---
---	---	Pb = -1136	Tb = -10864	Lb = 0	---
3.00	43.82	0.00	-10140.00	0.00	-4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -10140	Lb = 0	---
4.00	37.02	0.00	-8640.00	63000.00	4.75
---	---	---	Ft = 43786	Fp = 26315	---
---	---	Pa = 11765	Ta = -13478	La = 39964	---
---	---	Pb = -11765	Tb = 4838	Lb = 23036	---
5.00	37.02	0.00	-10140.00	0.00	-4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -10140	Lb = 0	---
6.00	30.22	0.00	-10140.00	0.00	4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = 724	La = 0	---
---	---	Pb = -1136	Tb = -10864	Lb = 0	---
7.00	30.22	0.00	-10140.00	0.00	-4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -10140	Lb = 0	---

Pagina 104

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-1211	-1376361	35962	41039978	0	345.28	0.09
3	1642	-1295	-2636166	35923	75419913	-0	345.28	0.14
4	2519	-1384	-3992798	35884	109799819	0	345.28	0.19
5	3435	-1477	-5450590	35846	144179707	0	345.28	0.23
6	4389	-1574	-7013877	35808	178559584	0	345.28	0.26
7	7748	-411	-7892297	35671	212939215	0	345.28	0.29
8	11146	-988	-6218872	35542	247318824	0	345.28	0.31
9	12214	-1097	-7433123	35515	281698681	0	345.28	0.33
10	13319	-1211	-8770201	35490	316078546	0	345.28	0.34
11	13894	-14450	-19878800	35487	350458481	0	345.28	0.35
12	17477	-22429	-43585473	35379	384838099	0	345.28	0.36
13	19541	-22379	-66158497	34911	420443578	0	345.28	0.37
14	29355	-20421	-87460204	35042	456059188	0	345.28	0.24
15	39238	-36073	-86639341	74705	531553968	113265745	345.28	0.26
16	41505	-36208	-123002511	74672	606689076	113265745	345.28	0.28
17	43841	-36350	-159528282	74642	681824208	113265745	345.28	0.30
18	40362	-58828	-215989765	89824	768541811	113265745	345.28	0.32
19	36951	-42106	-254438625	97962	868625366	127089651	345.28	0.34
20	39490	-42265	-296725093	97933	966545053	127089651	345.28	0.36
21	44465	-39584	-337262733	97847	1064464539	127089651	345.28	0.38
22	49508	-41824	-377088945	97771	1162384032	127089651	345.28	0.40
23	59871	-41919	-419218967	97580	1260303053	127089651	345.28	0.41
24	63444	-41832	-458575737	97038	1351381674	127089651	345.28	0.42
25	66531	-59034	-510602457	97557	1442464533	127089651	345.28	0.32
26	69700	-63439	-570801037	97544	1533544367	127089651	345.28	0.33
27	73520	-63615	-630005010	97522	1624624173	127089651	345.28	0.33
28	77422	-63797	-689391090	97504	1715703987	127089651	345.28	0.34
29	81406	-63986	-748963151	97489	1806783807	127089651	345.28	0.34
30	85472	-64181	-808725067	97479	1897863633	127089651	345.28	0.35
31	89620	-64383	-868680713	97472	1988943465	127089651	345.28	0.35
32	93851	-64590	-928833960	97469	2080023304	127089651	345.28	0.35
33	98164	-64805	-989188685	97470	2171103147	127089651	345.28	0.36
34	114231	-64935	-1049748469	97302	2262182364	127089651	345.28	0.36
35	118968	-65201	-1115324013	97351	2360438807	127089651	345.28	0.36
36	123800	-65436	-1181142922	97342	2458695503	127089651	345.28	0.38
37	128728	-65699	-1247210262	97377	2556952853	127089651	345.28	0.38
38	133752	-65970	-1313530593	97416	2655210209	127089651	345.28	0.38
39	138871	-66249	-1380108778	97459	2753467571	127089651	345.28	0.38
40	144086	-66535	-1446949682	97506	2851724938	127089651	345.28	0.38
41	149397	-66829	-1514058167	97558	2949982311	127089651	345.28	0.38
42	154803	-67131	-1581439097	97615	3048239689	127089651	345.28	0.38
43	160305	-67440	-1649097336	97675	3146497071	127089651	345.28	0.38
44	182145	-67689	-1717037279	97617	3244753567	127089651	345.28	0.38
45	187747	-68033	-1785379867	97721	3343176127	127089651	345.28	0.38
46	193444	-68356	-1854009726	97785	3441597803	127089651	345.28	0.39
47	199237	-68701	-1922932587	97881	3540020227	127089651	345.28	0.39
48	205126	-69054	-1992152915	97981	3638442654	127089651	345.28	0.39
49	211109	-69415	-2061675573	98085	3736865083	127089651	345.28	0.39
50	217189	-69783	-2131505422	98194	3835287516	127089651	345.28	0.39
51	223363	-70159	-2201647323	98306	3933709950	127089651	345.28	0.38
52	229634	-70543	-2272106138	98423	4032132387	127089651	345.28	0.38
53	235999	-70935	-2342886729	98543	4130554826	127089651	345.28	0.38
54	242460	-71334	-2413993957	98668	4228977267	127089651	345.28	0.38
55	249017	-71742	-2485432683	98798	4327399710	127089651	345.28	0.38
56	255669	-72157	-2557207770	98931	4425822155	127089651	345.28	0.37

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 50 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA -3 x 31.5 - (-) "

Pressione trasversale del vento = -176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	9060.00	-2260.00	8000.00	0.00
2.00	43.82	52220.00	-8640.00	63000.00	4.75
---	---	---	Ft = 94443	Fp = -22647	---
---	---	Pa = 47089	Ta = 2870	La = 81817	---
---	---	Pb = 5131	Tb = -11510	Lb = -18817	---
3.00	43.82	60460.00	-10140.00	0.00	-4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = -40562	La = 0	---
---	---	Pb = -3181	Tb = 30422	Lb = 0	---
4.00	37.02	52220.00	-8640.00	63000.00	4.75
---	---	---	Ft = 94443	Fp = -22647	---
---	---	Pa = 47089	Ta = 2870	La = 81817	---
---	---	Pb = 5131	Tb = -11510	Lb = -18817	---
5.00	37.02	60460.00	-10140.00	0.00	-4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = -40562	La = 0	---
---	---	Pb = -3181	Tb = 30422	Lb = 0	---
6.00	30.22	60460.00	-10140.00	0.00	4.75
---	---	---	Ft = 78163	Fp = -52434	---
---	---	Pa = 65914	Ta = 42010	La = 0	---
---	---	Pb = -5454	Tb = -52150	Lb = 0	---
7.00	30.22	60460.00	-10140.00	0.00	-4.75
---	---	---	Ft = 75468	Fp = -30588	---
---	---	Pa = 63641	Ta = -40562	La = 0	---
---	---	Pb = -3181	Tb = 30422	Lb = 0	---

Pagina 106

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	9862	-2093	-2664545	7436	9119940	0	345.28	0.02
3	10702	-2169	-5003482	7391	16759874	-0	345.28	0.04
4	11579	-2248	-7439248	7344	24399815	0	345.28	0.05
5	12495	-2332	-9976178	7296	32039763	0	345.28	0.06
6	13449	-2419	-12618603	7247	39679717	0	345.28	0.06
7	71605	-19216	-27121638	4828	47839960	0	345.28	0.09
8	129800	-37397	-107672721	82655	137670501	224636009	345.28	0.24
9	130867	-37574	-146652214	82702	223441418	224636009	345.28	0.33
10	131973	-37772	-185754851	82791	309213126	224636009	345.28	0.41
11	134091	-15673	-207736695	72581	387541329	224636009	345.28	0.46
12	139217	-19186	-229053838	63998	453245858	215047172	345.28	0.50
13	141281	-17474	-251254298	59771	523456123	215047172	345.28	0.53
14	200578	-21448	-275624411	61543	593709333	215047172	345.28	0.36
15	259942	-55174	-388013688	140846	745588246	446930562	345.28	0.43
16	262210	-55468	-447960047	141090	896734546	446930562	345.28	0.48
17	264546	-55778	-508069197	141370	1047881455	446930562	345.28	0.52
18	267924	-30460	-546753278	129355	1189568270	446930562	345.28	0.55
19	271371	-37482	-589659159	123109	1320338006	435638672	345.28	0.57
20	273910	-37816	-631579879	123453	1452875301	435638672	345.28	0.59
21	343094	-31453	-669817443	121353	1585403835	435638672	345.28	0.61
22	412347	-35014	-706445832	119481	1717932495	435638672	345.28	0.63
23	422710	-35337	-747493939	119814	1850469339	435638672	345.28	0.64
24	426283	-33564	-785840802	115374	1973738850	435638672	345.28	0.65
25	425620	-55637	-839156366	120980	2097049046	435638672	345.28	0.49
26	425040	-58294	-898595395	121487	2220329479	435638672	345.28	0.50
27	428860	-58636	-957459009	121862	2343609590	435638672	345.28	0.50
28	432762	-58984	-1016504758	122237	2466889750	435638672	345.28	0.51
29	436746	-59338	-1075736512	122612	2590169948	435638672	345.28	0.51
30	440812	-59696	-1135158141	122986	2713450178	435638672	345.28	0.51
31	444960	-60061	-1194773514	123359	2836730434	435638672	345.28	0.51
32	449191	-60430	-1254586504	123731	2960010711	435638672	345.28	0.52
33	453504	-60804	-1314600980	124102	3083291003	435638672	345.28	0.52
34	469571	-61073	-1374820431	124228	3206570410	435638672	345.28	0.52
35	474308	-61566	-1440027139	124802	3339560592	435638672	345.28	0.52
36	479140	-61905	-1505477814	125030	3472552462	435638672	345.28	0.54
37	484068	-62345	-1571178191	125472	3605547986	435638672	345.28	0.54
38	489092	-62789	-1637131560	125910	3738543510	435638672	345.28	0.54
39	494211	-63239	-1703342783	126346	3871539030	435638672	345.28	0.54
40	499426	-63693	-1769816723	126779	4004534545	435638672	345.28	0.53
41	504737	-64152	-1836558243	127210	4137530053	435638672	345.28	0.53
42	510143	-64616	-1903572206	127639	4270525554	435638672	345.28	0.53
43	515645	-65085	-1970863474	128065	4403521046	435638672	345.28	0.53
44	537485	-65480	-2038436353	128318	4536515284	435638672	345.28	0.53
45	543087	-66009	-2106411537	128850	4669734709	435638672	345.28	0.52
46	548784	-66458	-2174672865	129208	4802950588	435638672	345.28	0.54
47	554577	-66962	-2243228149	129670	4936169463	435638672	345.28	0.54
48	560466	-67470	-2312080894	130131	5069388325	435638672	345.28	0.53
49	566449	-67983	-2381235963	130590	5202607172	435638672	345.28	0.53
50	572529	-68501	-2450698216	131047	5335826006	435638672	345.28	0.53
51	578703	-69025	-2520472516	131504	5469044826	435638672	345.28	0.52
52	584974	-69553	-2590563724	131959	5602263633	435638672	345.28	0.52
53	591339	-70087	-2660976702	132413	5735482426	435638672	345.28	0.52
54	597800	-70625	-2731716311	132866	5868701207	435638672	345.28	0.51
55	604357	-71170	-2802787412	133319	6001919974	435638672	345.28	0.51
56	611009	-71719	-2874194869	133772	6135138730	435638672	345.28	0.51

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 51 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA - 3 x 31.5 - (-) "

Pressione trasversale del vento = -176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-2260.00	8000.00	0.00
2.00	43.82	0.00	-8640.00	63000.00	4.75
---	---	---	Ft = 43786	Fp = 26315	---
---	---	Pa = 11765	Ta = -13478	La = 39964	---
---	---	Pb = -11765	Tb = 4838	Lb = 23036	---
3.00	43.82	0.00	-10140.00	0.00	-4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -10140	Lb = 0	---
4.00	37.02	0.00	-8640.00	63000.00	4.75
---	---	---	Ft = 43786	Fp = 26315	---
---	---	Pa = 11765	Ta = -13478	La = 39964	---
---	---	Pb = -11765	Tb = 4838	Lb = 23036	---
5.00	37.02	0.00	-10140.00	0.00	-4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -10140	Lb = 0	---
6.00	30.22	0.00	-10140.00	0.00	4.75
---	---	---	Ft = 1347	Fp = -10923	---
---	---	Pa = 1136	Ta = 724	La = 0	---
---	---	Pb = -1136	Tb = -10864	Lb = 0	---
7.00	30.22	0.00	-10140.00	0.00	-4.75
---	---	---	Ft = -1347	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -10140	Lb = 0	---

Pagina 108

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-2340	-2664561	7961	9119995	0	345.28	0.02
3	1642	-2423	-5003513	7921	16759981	-0	345.28	0.03
4	2519	-2511	-7439292	7879	24399960	0	345.28	0.04
5	3435	-2603	-9976231	7836	32039935	0	345.28	0.05
6	4389	-2699	-12618664	7792	39679908	0	345.28	0.06
7	13063	9839	-7275258	7780	47574476	0	345.28	0.07
8	21775	-16145	4621886	46946	95362968	109725690	345.28	0.12
9	22842	-16252	-11234515	46909	141168330	109725690	345.28	0.17
10	23948	-16366	-27213762	46876	186973737	109725690	345.28	0.21
11	19209	-36392	-59240043	59697	241892972	109725690	345.28	0.25
12	17477	-22044	-78124551	70238	312267092	121464662	345.28	0.30
13	19541	-21985	-100331477	69644	382490784	121464662	345.28	0.35
14	29355	-20031	-121267368	69794	452724188	121464662	345.28	0.24
15	39238	-35679	-120080508	109374	562836964	234730406	345.28	0.28
16	41505	-35815	-156077725	109324	672590063	234730406	345.28	0.32
17	43841	-35959	-192237541	109279	782343199	234730406	345.28	0.35
18	40362	-58440	-248333090	124495	903678900	234730406	345.28	0.38
19	36951	-41721	-286416012	132668	1038380593	248554313	345.28	0.41
20	39490	-41881	-328336520	132627	1170918341	248554313	345.28	0.44
21	44465	-39199	-368508193	132513	1303455846	248554313	345.28	0.46
22	49508	-41440	-407968440	132412	1435993358	248554313	345.28	0.48
23	59871	-41533	-449732485	132162	1568530281	248554313	345.28	0.50
24	63444	-41441	-488748834	131455	1691808513	248554313	345.28	0.51
25	66531	-58649	-540435228	132126	1815092058	248554313	345.28	0.40
26	69700	-63055	-600293410	132106	1938371824	248554313	345.28	0.41
27	73520	-63231	-659156985	132075	2061651557	248554313	345.28	0.41
28	77422	-63414	-718202667	132050	2184931299	248554313	345.28	0.42
29	81406	-63603	-777434330	132029	2308211050	248554313	345.28	0.43
30	85472	-63798	-836855848	132014	2431490810	248554313	345.28	0.43
31	89620	-64000	-896471096	132003	2554770578	248554313	345.28	0.44
32	93851	-64208	-956283945	131998	2678050354	248554313	345.28	0.44
33	98164	-64423	-1016298272	131998	2801330137	248554313	345.28	0.44
34	114231	-64552	-1076517650	131776	2924609112	248554313	345.28	0.45
35	118968	-64819	-1141725961	131839	3057602727	248554313	345.28	0.45
36	123800	-65054	-1207177641	131826	3190596667	248554313	345.28	0.47
37	128728	-65318	-1272877759	131870	3323591454	248554313	345.28	0.47
38	133752	-65590	-1338830868	131920	3456586250	248554313	345.28	0.47
39	138871	-65869	-1405041831	131975	3589581054	248554313	345.28	0.48
40	144086	-66156	-1471515512	132037	3722575867	248554313	345.28	0.48
41	149397	-66450	-1538256774	132104	3855570686	248554313	345.28	0.47
42	154803	-66753	-1605270482	132177	3988565513	248554313	345.28	0.47
43	160305	-67063	-1672561499	132256	4121560346	248554313	345.28	0.47
44	182145	-67311	-1740134212	132179	4254554018	248554313	345.28	0.47
45	187747	-67656	-1808108963	132314	4387772417	248554313	345.28	0.47
46	193444	-67980	-1876370977	132399	4520989656	248554313	345.28	0.49
47	199237	-68325	-1944925999	132525	4654207877	248554313	345.28	0.49
48	205126	-68679	-2013778489	132656	4787426103	248554313	345.28	0.48
49	211109	-69040	-2082933307	132793	4920644332	248554313	345.28	0.48
50	217189	-69409	-2152395317	132936	5053862566	248554313	345.28	0.48
51	223363	-69786	-2222169378	133084	5187080803	248554313	345.28	0.48
52	229634	-70171	-2292260354	133237	5320299043	248554313	345.28	0.48
53	235999	-70563	-2362673105	133397	5453517287	248554313	345.28	0.47
54	242460	-70963	-2433412493	133562	5586735534	248554313	345.28	0.47
55	249017	-71371	-2504483380	133733	5719953783	248554313	345.28	0.47
56	255669	-71786	-2575890627	133909	5853172036	248554313	345.28	0.47

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 52 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2760.00	1900.00	31000.00	0.00
2.00	43.82	46220.00	21760.00	0.00	4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = 30008	La = 0	---
---	---	Pb = -863	Tb = -8248	Lb = 0	---
3.00	43.82	46220.00	21760.00	0.00	-4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = -33116	La = 0	---
---	---	Pb = -5739	Tb = 54876	Lb = 0	---
4.00	37.02	46220.00	21760.00	0.00	4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = 30008	La = 0	---
---	---	Pb = -863	Tb = -8248	Lb = 0	---
5.00	37.02	46220.00	21760.00	0.00	-4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = -33116	La = 0	---
---	---	Pb = -5739	Tb = 54876	Lb = 0	---
6.00	30.22	37420.00	17470.00	81000.00	4.75
---	---	---	Ft = 77221	Fp = 19862	---
---	---	Pa = 41244	Ta = 6380	La = 64972	---
---	---	Pb = -3824	Tb = 11090	Lb = 16028	---
7.00	30.22	46220.00	21760.00	0.00	-4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = -33116	La = 0	---
---	---	Pb = -5739	Tb = 54876	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	3562	2282	2646788	31011	35493147	0	345.28	0.08
3	4402	2674	5342595	31014	65285263	-0	345.28	0.13
4	5279	3083	8457377	31016	95110924	0	345.28	0.17
5	6195	3511	12009543	31019	124969422	-0	345.28	0.20
6	7149	3957	16017458	31022	154859843	0	345.28	0.23
7	59461	-683	18884446	31181	186774876	0	345.28	0.26
8	111811	2135	12581884	31336	220594857	0	345.28	0.30
9	112879	2631	18659937	31334	254317283	0	345.28	0.32
10	113984	3144	25248114	31330	287935670	0	345.28	0.33
11	111827	36158	56423149	31315	321333484	0	345.28	0.35
12	112677	50836	112424763	31308	354613170	0	345.28	0.37
13	114741	51637	169450186	31495	391351792	0	345.28	0.39
14	168193	51274	225724021	31430	427276005	0	345.28	0.27
15	221714	49816	266416955	31551	464674694	0	345.28	0.28
16	223981	50444	323116320	31538	501940430	0	345.28	0.29
17	226317	51090	380405599	31525	539073827	0	345.28	0.30
18	225420	89969	468720349	31503	575984344	0	345.28	0.32
19	224591	99049	575778541	31482	612679153	0	345.28	0.34
20	227130	99751	680787804	31467	649251511	0	345.28	0.36
21	278138	73014	768959826	34747	689085433	0	345.28	0.37
22	329214	74684	829611796	96590	798506237	190500758	345.28	0.40
23	339577	75449	912927816	96578	901422189	190500758	345.28	0.42
24	343150	76408	994045853	96767	999608575	190500758	345.28	0.44
25	342024	126372	1108895795	107656	1102940742	190500758	345.28	0.34
26	340980	143573	1252812181	112528	1213973008	201483377	345.28	0.36
27	344800	144331	1392928992	112511	1323603701	201483377	345.28	0.38
28	348702	145107	1533627142	112494	1433084296	201483377	345.28	0.40
29	352686	145899	1674912347	112478	1542408807	201483377	345.28	0.41
30	356752	146708	1816791301	112461	1651571952	201483377	345.28	0.43
31	360900	147533	1959271541	112444	1760569054	201483377	345.28	0.44
32	365131	148376	2102361330	112427	1869395952	201483377	345.28	0.45
33	369444	149235	2246069559	112410	1978048927	201483377	345.28	0.46
34	385511	150126	2390613427	112406	2086694405	201483377	345.28	0.47
35	390248	151081	2547152066	112380	2203579439	201483377	345.28	0.48
36	395080	152052	2704552912	112369	2320353942	201483377	345.28	0.51
37	400008	153032	2862666194	112349	2436881502	201483377	345.28	0.51
38	405032	154032	3021506060	112330	2553159778	201483377	345.28	0.52
39	410151	155052	3181086832	112310	2669186496	201483377	345.28	0.52
40	415366	156092	3341423140	112291	2784959570	201483377	345.28	0.53
41	420677	157151	3502529869	112272	2900477070	201483377	345.28	0.53
42	426083	158231	3664422108	112253	3015737189	201483377	345.28	0.53
43	431585	159330	3827115116	112235	3130738213	201483377	345.28	0.54
44	453425	160459	3990792071	112225	3245611581	201483377	345.28	0.54
45	459027	161595	4155486624	112202	3360341751	201483377	345.28	0.54
46	464724	162738	4321063499	112187	3474848489	201483377	345.28	0.56
47	470517	163896	4487449322	112168	3589059765	201483377	345.28	0.56
48	476406	165074	4654660237	112149	3702974610	201483377	345.28	0.56
49	482389	166273	4822712268	112130	3816591922	201483377	345.28	0.56
50	488469	167491	4991621445	112112	3929910583	201483377	345.28	0.56
51	494643	168729	5161403794	112094	4042929449	201483377	345.28	0.56
52	500914	169987	5332075322	112076	4155647349	201483377	345.28	0.56
53	507279	171265	5503652010	112059	4268063076	201483377	345.28	0.56
54	513740	172562	5676149804	112042	4380175381	201483377	345.28	0.56
55	520297	173880	5849584604	112025	4491982973	201483377	345.28	0.56
56	526949	175218	6023972264	112008	4603484513	201483377	345.28	0.56

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 53 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	1900.00	31000.00	0.00
2.00	43.82	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
3.00	43.82	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
4.00	37.02	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
5.00	37.02	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
6.00	30.22	0.00	17470.00	81000.00	4.75
---	---	---	Ft = 38674	Fp = 53069	---
---	---	Pa = 16149	Ta = -3435	La = 34972	---
---	---	Pb = -16149	Tb = 20905	Lb = 46028	---
7.00	30.22	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	2271	2545954	31000	35369810	0	345.28	0.07
3	1642	2660	5138820	31001	65035071	0	345.28	0.12
4	2519	3067	8148508	31001	94730795	0	345.28	0.17
5	3435	3492	11593381	31002	124456541	0	345.28	0.20
6	4389	3936	15491753	31002	154211528	0	345.28	0.23
7	8399	1762	18253615	31004	184094717	-0	345.28	0.25
8	12448	3327	15880681	31005	214098187	-0	345.28	0.27
9	13516	3825	19958039	31006	244120373	0	345.28	0.28
10	14621	4342	24561323	31006	274159694	0	345.28	0.30
11	14545	33015	50366503	31006	304179774	-0	345.28	0.31
12	17477	50503	103540391	31007	334263130	-0	345.28	0.33
13	19541	51101	155092352	31012	365791427	0	345.28	0.35
14	24692	51252	206701540	31009	397099151	0	345.28	0.23
15	29911	50767	250122892	31011	428520011	0	345.28	0.24
16	32178	51407	301945073	31012	459973778	0	345.28	0.25
17	34514	52067	354473809	31012	491459222	-0	345.28	0.26
18	35698	86061	433896928	31012	522946911	-0	345.28	0.27
19	36951	98519	535772820	31012	554437352	-0	345.28	0.29
20	39490	99237	635034904	31013	585957482	-0	345.28	0.31
21	53190	133325	758219544	32739	618903446	-0	345.28	0.34
22	66959	95753	878832055	65992	689003547	102540296	345.28	0.36
23	77322	96533	976297670	65995	755782027	102540296	345.28	0.38
24	80895	97284	1068354630	66003	818438436	102540296	345.28	0.40
25	75256	102325	1159319641	97958	903608788	102540296	345.28	0.31
26	69700	142989	1301608897	112018	1011428448	134079247	345.28	0.33
27	73520	143767	1435433933	112018	1115662733	134079247	345.28	0.35
28	77422	144561	1570023421	112019	1219921586	134079247	345.28	0.36
29	81406	145373	1705388311	112019	1324201413	134079247	345.28	0.38
30	85472	146201	1841539491	112019	1428498592	134079247	345.28	0.39
31	89620	147045	1978487787	112019	1532809475	134079247	345.28	0.40
32	93851	147907	2116243974	112019	1637130390	134079247	345.28	0.42
33	98164	148786	2254818776	112019	1741457648	134079247	345.28	0.43
34	114231	149684	2394418700	112021	1845934361	134079247	345.28	0.43
35	118968	150667	2545949565	112021	1958607218	134079247	345.28	0.44
36	123800	151651	2698479846	112021	2071295631	134079247	345.28	0.47
37	128728	152653	2851975675	112020	2183959588	134079247	345.28	0.48
38	133752	153675	3006450074	112020	2296594281	134079247	345.28	0.48
39	138871	154716	3161916033	112019	2409194909	134079247	345.28	0.49
40	144086	155777	3318386521	112019	2521756684	134079247	345.28	0.49
41	149397	156858	3475874486	112018	2634274828	134079247	345.28	0.50
42	154803	157958	3634392855	112017	2746744579	134079247	345.28	0.50
43	160305	159078	3793954530	112017	2859161185	134079247	345.28	0.51
44	182145	160219	3954731298	112017	2971637276	134079247	345.28	0.51
45	187747	161379	4116806906	112016	3084206945	134079247	345.28	0.51
46	193444	162539	4279959741	112015	3196717939	134079247	345.28	0.53
47	199237	163718	4444168075	112014	3309140079	134079247	345.28	0.53
48	205126	164917	4609444682	112012	3421468713	134079247	345.28	0.53
49	211109	166135	4775802303	112011	3533699192	134079247	345.28	0.54
50	217189	167372	4943253658	112010	3645826880	134079247	345.28	0.54
51	223363	168630	5111811449	112008	3757847152	134079247	345.28	0.54
52	229634	169906	5281488350	112007	3869755394	134079247	345.28	0.54
53	235999	171203	5452297017	112005	3981547000	134079247	345.28	0.54
54	242460	172519	5624250077	112004	4093217375	134079247	345.28	0.54
55	249017	173854	5797360138	112002	4204761934	134079247	345.28	0.54
56	255669	175210	5971639779	112001	4316176097	134079247	345.28	0.54

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 54 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2760.00	1900.00	31000.00	0.00
2.00	43.82	46220.00	21760.00	0.00	4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = 30008	La = 0	---
---	---	Pb = -863	Tb = -8248	Lb = 0	---
3.00	43.82	46220.00	21760.00	0.00	-4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = -33116	La = 0	---
---	---	Pb = -5739	Tb = 54876	Lb = 0	---
4.00	37.02	37420.00	17470.00	81000.00	4.75
---	---	---	Ft = 77221	Fp = 19862	---
---	---	Pa = 41244	Ta = 6380	La = 64972	---
---	---	Pb = -3824	Tb = 11090	Lb = 16028	---
5.00	37.02	46220.00	21760.00	0.00	-4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = -33116	La = 0	---
---	---	Pb = -5739	Tb = 54876	Lb = 0	---
6.00	30.22	46220.00	21760.00	0.00	4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = 30008	La = 0	---
---	---	Pb = -863	Tb = -8248	Lb = 0	---
7.00	30.22	46220.00	21760.00	0.00	-4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = -33116	La = 0	---
---	---	Pb = -5739	Tb = 54876	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm²]	% Uso
2	3562	2282	2641730	31014	35527585	0	345.28	0.08
3	4402	2673	5331300	31017	65362159	0	345.28	0.13
4	5279	3083	8438618	31020	95238633	0	345.28	0.17
5	6195	3510	11982044	31024	125156633	0	345.28	0.20
6	7149	3956	15979894	31027	155115575	0	345.28	0.23
7	59461	-691	18763334	31227	187599400	0	345.28	0.27
8	111811	2121	12304071	31422	222486207	0	345.28	0.30
9	112879	2617	18224477	31419	257281910	0	345.28	0.32
10	113984	3130	24654139	31414	291979502	0	345.28	0.34
11	111827	36144	55674414	31396	326430988	0	345.28	0.35
12	112677	50823	111520916	31387	360766764	0	345.28	0.37
13	114741	51615	168280483	31621	399315549	0	345.28	0.40
14	165274	50174	223511499	31547	436748306	0	345.28	0.27
15	215875	26149	221692380	96644	540879650	184142887	345.28	0.30
16	218143	26777	254545430	96629	644284749	184142887	345.28	0.33
17	220479	27425	288013587	96612	747529315	184142887	345.28	0.36
18	218101	74193	357914121	107043	858480553	184142887	345.28	0.39
19	215791	94718	463123420	112579	978375834	193761308	345.28	0.43
20	218330	95422	563456351	112561	1096570389	193761308	345.28	0.46
21	272257	84157	657624690	112668	1216232178	193761308	345.28	0.49
22	326253	93991	749987499	112764	1337209504	193761308	345.28	0.52
23	336616	94758	852200927	112749	1458043379	193761308	345.28	0.54
24	340189	95707	950843857	112982	1573418633	193761308	345.28	0.56
25	340544	137959	1078602949	112685	1685115382	193761308	345.28	0.43
26	340980	143553	1219656464	112657	1796508224	193761308	345.28	0.45
27	344800	144313	1359674918	112636	1907676155	193761308	345.28	0.46
28	348702	145089	1500279657	112614	2018616511	193761308	345.28	0.47
29	352686	145882	1641476152	112593	2129327133	193761308	345.28	0.49
30	356752	146691	1783270873	112571	2239806269	193761308	345.28	0.50
31	360900	147518	1925671152	112550	2350052491	193761308	345.28	0.50
32	365131	148361	2068685062	112529	2460064639	193761308	345.28	0.51
33	369444	149221	2212321317	112508	2569841767	193761308	345.28	0.52
34	385511	150112	2356794819	112502	2679586151	193761308	345.28	0.52
35	390248	151069	2513263086	112470	2797570018	193761308	345.28	0.53
36	395080	152040	2670596396	112456	2915399035	193761308	345.28	0.56
37	400008	153020	2828646480	112431	3032913340	193761308	345.28	0.56
38	405032	154021	2987427305	112407	3150113387	193761308	345.28	0.57
39	410151	155042	3146953032	112383	3266999442	193761308	345.28	0.57
40	415366	156082	3307238140	112359	3383571771	193761308	345.28	0.57
41	420677	157142	3468297376	112335	3499830617	193761308	345.28	0.57
42	426083	158223	3630145701	112312	3615776185	193761308	345.28	0.58
43	431585	159323	3792798255	112289	3731408625	193761308	345.28	0.58
44	433425	160452	3956436725	112277	3846882636	193761308	345.28	0.58
45	439027	161589	4121096752	112249	3962151646	193761308	345.28	0.58
46	464724	162732	4286641868	112230	4077153999	193761308	345.28	0.60
47	470517	163891	4452999338	112206	4191807747	193761308	345.28	0.60
48	476406	165070	4620185207	112183	4306113462	193761308	345.28	0.60
49	482389	166268	4788215408	112160	4420071447	193761308	345.28	0.60
50	488469	167487	4957105887	112137	4533681890	193761308	345.28	0.60
51	494643	168726	5126872592	112115	4646944867	193761308	345.28	0.59
52	500914	169984	5297531459	112093	4759860338	193761308	345.28	0.59
53	507279	171263	5469098402	112072	4872428154	193761308	345.28	0.59
54	513740	172561	5641589301	112051	4984648048	193761308	345.28	0.59
55	520297	173880	5815020000	112030	5096519647	193761308	345.28	0.59
56	526949	175218	5989406296	112010	5208042466	193761308	345.28	0.59

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 55 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	1900.00	31000.00	0.00
2.00	43.82	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
3.00	43.82	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
4.00	37.02	0.00	17470.00	81000.00	4.75
---	---	---	Ft = 38674	Fp = 53069	---
---	---	Pa = 16149	Ta = -3435	La = 34972	---
---	---	Pb = -16149	Tb = 20905	Lb = 46028	---
5.00	37.02	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
6.00	30.22	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
7.00	30.22	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	2271	2545920	31000	35375944	0	345.28	0.07
3	1642	2660	5138718	31001	65053734	-0	345.28	0.12
4	2519	3067	8148302	31001	94768647	0	345.28	0.17
5	3435	3492	11593032	31002	124520505	-0	345.28	0.20
6	4389	3936	15491223	31003	154308791	-0	345.28	0.23
7	8399	1762	18252739	31005	184255599	-0	345.28	0.25
8	12448	3327	15879291	31007	214353191	-0	345.28	0.27
9	13516	3826	19956094	31008	244477397	0	345.28	0.28
10	14621	4342	24558777	31008	274626895	0	345.28	0.30
11	14545	33016	50363361	31008	304756398	0	345.28	0.31
12	17477	50504	103536534	31009	334971007	0	345.28	0.33
13	19541	51102	155087143	31016	366747312	0	345.28	0.35
14	32766	54209	208902203	31025	398526646	0	345.28	0.23
15	46059	47340	300385720	65995	465619880	99118064	345.28	0.27
16	48327	47981	349299224	65995	532432471	99118064	345.28	0.29
17	50663	48641	398906835	65996	599276311	99118064	345.28	0.31
18	43773	56277	451253728	96035	689006364	99118064	345.28	0.33
19	36951	94229	554501350	112016	805199813	126739423	345.28	0.37
20	39490	94948	649505484	112016	917106244	126739423	345.28	0.40
21	45116	89637	741220226	112018	1029126299	126739423	345.28	0.43
22	50810	94891	831872231	112019	1141248307	126739423	345.28	0.46
23	61173	95671	928051047	112022	1253576940	126739423	345.28	0.48
24	64746	96420	1018780005	112031	1358614105	126739423	345.28	0.50
25	67182	133152	1136473420	112023	1463110642	126739423	345.28	0.39
26	69700	142989	1272046469	112023	1567609525	126739423	345.28	0.40
27	73520	143767	1405856282	112023	1672133196	126739423	345.28	0.42
28	77422	144561	1540430743	112023	1776677688	126739423	345.28	0.43
29	81406	145373	1675780824	112024	1881239019	126739423	345.28	0.44
30	85472	146201	1811917433	112024	1985813194	126739423	345.28	0.45
31	89620	147045	1948851414	112024	2090396209	126739423	345.28	0.46
32	93851	147907	2086593559	112024	2194984055	126739423	345.28	0.47
33	98164	148786	2225154609	112024	2299572719	126739423	345.28	0.48
34	114231	149684	2364739558	112027	2404334090	126739423	345.28	0.48
35	118968	150667	2516255035	112026	2517299478	126739423	345.28	0.49
36	123800	151650	2668770150	112026	2630276166	126739423	345.28	0.52
37	128728	152653	2822251419	112025	2743216899	126739423	345.28	0.52
38	133752	153675	2976711874	112025	2856116673	126739423	345.28	0.53
39	138871	154716	3132164514	112024	2968970484	126739423	345.28	0.53
40	144086	155777	3288622320	112023	3081773343	126739423	345.28	0.53
41	149397	156858	3446098250	112022	3194520272	126739423	345.28	0.54
42	154803	157958	3604605241	112021	3307206306	126739423	345.28	0.54
43	160305	159078	3764156207	112020	3419826491	126739423	345.28	0.54
44	182145	160219	3924921962	112021	3532511925	126739423	345.28	0.54
45	187747	161379	4086987514	112020	3645272737	126739423	345.28	0.54
46	193444	162539	4250130942	112018	3757962580	126739423	345.28	0.56
47	199237	163718	4414330734	112017	3870547101	126739423	345.28	0.56
48	205126	164917	4579599669	112015	3983021552	126739423	345.28	0.56
49	211109	166135	4745950496	112014	4095381174	126739423	345.28	0.56
50	217189	167372	4913395941	112012	4207621219	126739423	345.28	0.56
51	223363	168630	5081948711	112010	4319736940	126739423	345.28	0.56
52	229634	169906	5251621487	112008	4431723598	126739423	345.28	0.56
53	235999	171203	5422426931	112007	4543576457	126739423	345.28	0.56
54	242460	172519	5594377679	112005	4655290787	126739423	345.28	0.56
55	249017	173854	5767486345	112003	4766861864	126739423	345.28	0.56
56	255669	175209	5941765515	112001	4878284968	126739423	345.28	0.56

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 56 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	5510.00	3800.00	6000.00	0.00
2.00	43.82	37420.00	17470.00	81000.00	4.75
---	---	---	Ft = 77221	Fp = 19862	---
---	---	Pa = 41244	Ta = 6380	La = 64972	---
---	---	Pb = -3824	Tb = 11090	Lb = 16028	---
3.00	43.82	46220.00	21760.00	0.00	-4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = -33116	La = 0	---
---	---	Pb = -5739	Tb = 54876	Lb = 0	---
4.00	37.02	37420.00	17470.00	81000.00	4.75
---	---	---	Ft = 77221	Fp = 19862	---
---	---	Pa = 41244	Ta = 6380	La = 64972	---
---	---	Pb = -3824	Tb = 11090	Lb = 16028	---
5.00	37.02	46220.00	21760.00	0.00	-4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = -33116	La = 0	---
---	---	Pb = -5739	Tb = 54876	Lb = 0	---
6.00	30.22	46220.00	21760.00	0.00	4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = 30008	La = 0	---
---	---	Pb = -863	Tb = -8248	Lb = 0	---
7.00	30.22	46220.00	21760.00	0.00	-4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = -33116	La = 0	---
---	---	Pb = -5739	Tb = 54876	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	6312	4189	4873804	6036	7275217	0	345.28	0.02
3	7152	4580	9439794	6040	13496630	-0	345.28	0.03
4	8029	4989	14419005	6045	19776115	0	345.28	0.04
5	8945	5416	19829425	6050	26115523	0	345.28	0.05
6	9899	5862	25688997	6055	32516681	0	345.28	0.06
7	59292	-5325	25793987	6972	42660722	0	345.28	0.08
8	108723	-19653	-17241821	71567	120948384	178387608	345.28	0.17
9	109790	-19157	-32666279	71563	195997466	178387608	345.28	0.25
10	110896	-18643	-47558949	71556	270999865	178387608	345.28	0.32
11	107258	20678	-33689665	80281	351965236	178387608	345.28	0.37
12	106627	48383	22207423	87530	443481813	186555370	345.28	0.43
13	108691	49146	75670826	87853	540679415	186555370	345.28	0.50
14	159224	47722	127840081	87758	636484196	186555370	345.28	0.35
15	209825	23685	122843543	152920	799929467	370698257	345.28	0.41
16	212093	24316	152554038	152899	962593126	370698257	345.28	0.46
17	214429	24966	182913077	152877	1125028907	370698257	345.28	0.50
18	212051	71738	249748275	163295	1295006929	370698257	345.28	0.55
19	209741	92266	351933620	168818	1473762333	380316678	345.28	0.59
20	212280	92972	449271713	168793	1650730775	380316678	345.28	0.63
21	266207	81699	540371342	168951	1829908384	380316678	345.28	0.67
22	320203	91526	629604438	169091	2011068106	380316678	345.28	0.70
23	330566	92294	728715067	169071	2192024972	380316678	345.28	0.73
24	334139	93222	824267112	169405	2364730146	380316678	345.28	0.75
25	334494	135502	949208357	168980	2532024307	380316678	345.28	0.58
26	334930	141100	1087471079	168940	2698871447	380316678	345.28	0.59
27	338750	141862	1224720822	168910	2865389998	380316678	345.28	0.61
28	342652	142640	1362578484	168880	3031575941	380316678	345.28	0.62
29	346636	143435	1501049100	168849	3197425998	380316678	345.28	0.63
30	350702	144247	1640138718	168819	3362937472	380316678	345.28	0.64
31	354850	145076	1779854260	168788	3528108144	380316678	345.28	0.65
32	359081	145921	1920203405	168758	3692936179	380316678	345.28	0.66
33	363394	146784	2061194489	168728	3857420055	380316678	345.28	0.66
34	379461	147676	2203031870	168721	4021862571	380316678	345.28	0.67
35	384198	148635	2356686693	168675	4198663180	380316678	345.28	0.68
36	389030	149607	2511220274	168656	4375237435	380316678	345.28	0.71
37	393958	150591	2666494287	168620	4551349470	380316678	345.28	0.71
38	398982	151594	2822522207	168585	4726999762	380316678	345.28	0.71
39	404101	152617	2979317747	168550	4902188519	380316678	345.28	0.72
40	409316	153659	3136894962	168516	5076915946	380316678	345.28	0.72
41	414627	154722	3295268194	168482	5251182216	380316678	345.28	0.72
42	420033	155804	3454452022	168449	5424987441	380316678	345.28	0.72
43	425535	156906	3614461226	168416	5598331660	380316678	345.28	0.72
44	447375	158037	3775470040	168399	5771446364	380316678	345.28	0.72
45	452977	159176	3937521429	168359	5944263337	380316678	345.28	0.72
46	458674	160322	4100475195	168332	6116687148	380316678	345.28	0.74
47	464467	161483	4264263175	168298	6288596515	380316678	345.28	0.74
48	470356	162664	4428901069	168264	6459992092	380316678	345.28	0.74
49	476339	163864	4594404495	168231	6630874142	380316678	345.28	0.73
50	482419	165085	4760789104	168198	6801242765	380316678	345.28	0.73
51	488593	166325	4928070562	168166	6971097890	380316678	345.28	0.73
52	494864	167586	5096264542	168135	7140439284	380316678	345.28	0.73
53	501229	168866	5265386707	168104	7309266546	380316678	345.28	0.72
54	507690	170167	5435452706	168074	7477579110	380316678	345.28	0.72
55	514247	171487	5606478161	168044	7645376251	380316678	345.28	0.72
56	520899	172827	5778478661	168015	7812657081	380316678	345.28	0.71

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 57 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	3800.00	6000.00	0.00
2.00	43.82	0.00	17470.00	81000.00	4.75
---	---	---	Ft = 38674	Fp = 53069	---
---	---	Pa = 16149	Ta = -3435	La = 34972	---
---	---	Pb = -16149	Tb = 20905	Lb = 46028	---
3.00	43.82	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
4.00	37.02	0.00	17470.00	81000.00	4.75
---	---	---	Ft = 38674	Fp = 53069	---
---	---	Pa = 16149	Ta = -3435	La = 34972	---
---	---	Pb = -16149	Tb = 20905	Lb = 46028	---
5.00	37.02	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
6.00	30.22	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
7.00	30.22	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	4171	4713504	6001	6883789	0	345.28	0.02
3	1642	4560	9123999	6002	12703115	0	345.28	0.03
4	2519	4967	13952882	6003	18569613	0	345.28	0.04
5	3435	5393	19218478	6003	24484835	0	345.28	0.05
6	4389	5836	24939041	6004	30450269	0	345.28	0.06
7	16474	21002	41011100	6363	37282223	0	345.28	0.08
8	28597	1804	76412126	41000	79662536	96020186	345.28	0.14
9	29664	2302	79573047	41000	120349344	96020186	345.28	0.17
10	30770	2819	83250275	41001	161074663	96020186	345.28	0.20
11	22620	7794	88548049	66147	219569440	96020186	345.28	0.24
12	17477	48115	143480922	87015	308665781	119475666	345.28	0.32
13	19541	48713	192679268	87027	396340812	119475666	345.28	0.39
14	32766	51820	244138814	87036	484029792	119475666	345.28	0.28
15	46059	44953	333266977	122009	607235307	218593730	345.28	0.34
16	48327	45593	379822624	122009	730182876	218593730	345.28	0.38
17	50663	46253	427070072	122010	853180922	218593730	345.28	0.41
18	43773	53889	477054387	152046	998944293	218593730	345.28	0.45
19	36951	91840	577937865	168025	1171054915	246215089	345.28	0.50
20	39490	92559	670576625	168026	1338896702	246215089	345.28	0.54
21	45116	87248	759924627	168028	1506908093	246215089	345.28	0.57
22	50810	92503	848208455	168031	1675071829	246215089	345.28	0.61
23	61173	93282	942017160	168035	1843543552	246215089	345.28	0.64
24	64746	94032	1030537876	168049	2001073121	246215089	345.28	0.66
25	67182	130763	1146024740	168035	2157799505	246215089	345.28	0.51
26	69700	140601	1279390545	168035	2314529925	246215089	345.28	0.53
27	73520	141378	1410992328	168036	2471297730	246215089	345.28	0.54
28	77422	142172	1543358024	168036	2628096996	246215089	345.28	0.56
29	81406	142984	1676498661	168037	2784921774	246215089	345.28	0.57
30	85472	143812	1810425201	168037	2941766093	246215089	345.28	0.58
31	89620	144656	1945148548	168037	3098623970	246215089	345.28	0.59
32	93851	145518	2080679553	168037	3255489412	246215089	345.28	0.60
33	98164	146397	2217029018	168037	3412356418	246215089	345.28	0.61
34	114231	147295	2354400499	168041	3569481064	246215089	345.28	0.61
35	118968	148278	2503528050	168040	3738911253	246215089	345.28	0.62
36	123800	149261	2653654668	168040	3908358653	246215089	345.28	0.65
37	128728	150264	2804747316	168039	4077752823	246215089	345.28	0.66
38	133752	151286	2956819116	168038	4247086270	246215089	345.28	0.66
39	138871	152327	3109883160	168037	4416351500	246215089	345.28	0.66
40	144086	153388	3263952520	168036	4585541042	246215089	345.28	0.67
41	149397	154468	3419040244	168034	4754647441	246215089	345.28	0.67
42	154803	155569	3575159360	168033	4923663262	246215089	345.28	0.67
43	160305	156688	3732322871	168031	5092581087	246215089	345.28	0.67
44	182145	157830	3890700226	168033	5261596434	246215089	345.28	0.67
45	187747	158990	4050374359	168030	5430725961	246215089	345.28	0.67
46	193444	160150	4211126929	168028	5599749785	246215089	345.28	0.69
47	199237	161329	4372936833	168026	5768616634	246215089	345.28	0.69
48	205126	162527	4535816947	168024	5937319391	246215089	345.28	0.69
49	211109	163745	4699780109	168021	6105850926	246215089	345.28	0.69
50	217189	164983	4864839141	168018	6274204120	246215089	345.28	0.69
51	223363	166240	5031006839	168016	6442371863	246215089	345.28	0.69
52	229634	167517	5198295978	168013	6610347053	246215089	345.28	0.69
53	235999	168813	5366719309	168010	6778122595	246215089	345.28	0.68
54	242460	170129	5536289560	168007	6945691402	246215089	345.28	0.68
55	249017	171464	5707019434	168004	7113046395	246215089	345.28	0.68
56	255669	172820	5878921608	168001	7280180503	246215089	345.28	0.68

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 58 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2720.00	1900.00	30200.00	0.00
2.00	43.82	45620.00	21760.00	0.00	4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = 29598	La = 0	---
---	---	Pb = -820	Tb = -7838	Lb = 0	---
3.00	43.82	45620.00	21760.00	0.00	-4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = -32706	La = 0	---
---	---	Pb = -5696	Tb = 54466	Lb = 0	---
4.00	37.02	45620.00	21760.00	0.00	4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = 29598	La = 0	---
---	---	Pb = -820	Tb = -7838	Lb = 0	---
5.00	37.02	45620.00	21760.00	0.00	-4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = -32706	La = 0	---
---	---	Pb = -5696	Tb = 54466	Lb = 0	---
6.00	30.22	36970.00	17470.00	78000.00	4.75
---	---	---	Ft = 75084	Fp = 18863	---
---	---	Pa = 40505	Ta = 6796	La = 62855	---
---	---	Pb = -3535	Tb = 10674	Lb = 15145	---
7.00	30.22	45620.00	21760.00	0.00	-4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = -32706	La = 0	---
---	---	Pb = -5696	Tb = 54466	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	3522	2282	2645185	30210	34574813	0	345.28	0.07
3	4362	2673	5339351	30213	63595571	0	345.28	0.12
4	5239	3083	8452454	30215	92648863	0	345.28	0.16
5	6155	3511	12002904	30218	121733999	0	345.28	0.19
6	7109	3957	16009063	30221	150850086	0	345.28	0.22
7	58778	-688	18849278	30371	181904023	-0	345.28	0.26
8	110485	2126	12495177	30518	214780774	-0	345.28	0.29
9	111553	2622	18521956	30516	247564031	-0	345.28	0.31
10	112658	3135	25059211	30512	280247591	0	345.28	0.32
11	1110544	36150	56185372	30498	312720042	0	345.28	0.34
12	111437	50828	112140176	30491	345080541	0	345.28	0.36
13	113501	51624	169087678	30669	380771524	0	345.28	0.38
14	166310	51263	225290692	30607	415679837	-0	345.28	0.26
15	219188	49801	265890457	30721	451997737	-0	345.28	0.27
16	221456	50429	322498445	30709	488188511	-0	345.28	0.29
17	223791	51076	379698297	30696	524252755	-0	345.28	0.30
18	222937	89955	467927173	30676	560103989	-0	345.28	0.31
19	222151	99036	574903160	30656	595749081	-0	345.28	0.33
20	224690	99739	679832622	30642	631277109	-0	345.28	0.35
21	275007	72804	767771461	33813	669945021	0	345.28	0.37
22	325392	75493	829032174	93639	775918019	184293868	345.28	0.39
23	335755	76258	913051928	93628	875600514	184293868	345.28	0.41
24	339328	77211	994790919	93807	970672302	184293868	345.28	0.43
25	338368	127084	1110306876	104096	1070575138	184293868	345.28	0.34
26	337490	143559	1253967545	108700	1177753592	194671385	345.28	0.36
27	341310	144318	1393999071	108684	1283606285	194671385	345.28	0.38
28	345212	145094	1534614394	108668	1389315675	194671385	345.28	0.39
29	349196	145887	1675819311	108652	1494876044	194671385	345.28	0.41
30	353262	146696	1817620580	108636	1600282341	194671385	345.28	0.42
31	357410	147522	1960025789	108620	1705530087	194671385	345.28	0.43
32	361641	148365	2103043240	108604	1810615291	194671385	345.28	0.44
33	365954	149225	2246681854	108589	1915534384	194671385	345.28	0.45
34	382021	150116	2391158696	108585	2020448267	194671385	345.28	0.46
35	386758	151072	2547629455	108561	2133321630	194671385	345.28	0.47
36	391590	152043	2704964299	108550	2246089542	194671385	345.28	0.50
37	396518	153024	2863015029	108531	2358621283	194671385	345.28	0.51
38	401542	154024	3021795776	108513	2470914575	194671385	345.28	0.51
39	406661	155045	3181320845	108494	2582967205	194671385	345.28	0.52
40	411876	156085	3341604843	108476	2694777138	194671385	345.28	0.52
41	417187	157145	3502662624	108458	2806342485	194671385	345.28	0.52
42	422593	158225	3664509248	108440	2917661473	194671385	345.28	0.53
43	428095	159325	3827159941	108423	3028732418	194671385	345.28	0.53
44	449935	160454	3990797729	108413	3139682326	194671385	345.28	0.53
45	455537	161590	4155456930	108392	3250496467	194671385	345.28	0.53
46	461234	162734	4321001101	108378	3361096551	194671385	345.28	0.56
47	467027	163893	4487357562	108359	3471413444	194671385	345.28	0.56
48	472916	165071	4654542409	108341	3581446171	194671385	345.28	0.56
49	478899	166270	4822571617	108324	3691193625	194671385	345.28	0.56
50	484979	167488	4991461170	108306	3800654688	194671385	345.28	0.56
51	491153	168727	5161227043	108289	3909828214	194671385	345.28	0.56
52	497424	169985	5331885196	108272	4018713033	194671385	345.28	0.56
53	503789	171263	5503451564	108256	4127307937	194671385	345.28	0.56
54	510250	172562	5675942041	108239	4235611681	194671385	345.28	0.56
55	516807	173880	5849372483	108224	4343622976	194671385	345.28	0.55
56	523459	175218	6023758694	108208	4451340492	194671385	345.28	0.55

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 59 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	1900.00	30200.00	0.00
2.00	43.82	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
3.00	43.82	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
4.00	37.02	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
5.00	37.02	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
6.00	30.22	0.00	17470.00	78000.00	4.75
---	---	---	Ft = 36890	Fp = 51579	---
---	---	Pa = 15528	Ta = -3093	La = 33319	---
---	---	Pb = -15528	Tb = 20563	Lb = 44681	---
7.00	30.22	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	2271	2545947	30200	34456946	0	345.28	0.07
3	1642	2660	5138800	30201	63356457	0	345.28	0.12
4	2519	3067	8148468	30201	92285543	0	345.28	0.16
5	3435	3492	11593312	30201	121243768	0	345.28	0.19
6	4389	3936	15491648	30202	150230368	0	345.28	0.22
7	8399	1762	18253443	30204	179341390	0	345.28	0.24
8	12448	3327	15880407	30205	208569118	-0	345.28	0.26
9	13516	3825	19957656	30206	237814956	0	345.28	0.28
10	14621	4342	24560821	30206	267077360	0	345.28	0.29
11	14545	33015	50365883	30206	296321032	0	345.28	0.30
12	17477	50503	103539631	30207	325626008	0	345.28	0.32
13	19541	51101	155091325	30212	356336825	0	345.28	0.34
14	24692	51252	206700307	30209	386833635	0	345.28	0.23
15	29911	50767	250121410	30211	417440037	-0	345.28	0.24
16	32178	51407	301943323	30211	448078231	0	345.28	0.25
17	34514	52067	354471773	30212	478747011	0	345.28	0.26
18	35698	86061	433894597	30212	509417842	0	345.28	0.27
19	36951	98519	535770182	30212	540091210	-0	345.28	0.29
20	39490	99237	635031940	30212	570793206	-0	345.28	0.31
21	52880	131821	757177767	31857	602851299	0	345.28	0.33
22	66338	96094	877030649	63538	670304706	97692440	345.28	0.36
23	76701	96874	974817499	63540	734596207	97692440	345.28	0.38
24	80274	97625	1067168382	63548	794918335	97692440	345.28	0.39
25	74946	103623	1159316551	94568	877106779	97692440	345.28	0.31
26	69700	142989	1301318785	108217	981287333	128308681	345.28	0.33
27	73520	143767	1435143634	108218	1081987250	128308681	345.28	0.34
28	77422	144561	1569732936	108218	1182710872	128308681	345.28	0.36
29	81406	145373	1705097644	108218	1283454727	128308681	345.28	0.37
30	85472	146201	1841248645	108218	1384215311	128308681	345.28	0.39
31	89620	147045	1978196765	108219	1484989098	128308681	345.28	0.40
32	93851	147907	2115952779	108219	1585772538	128308681	345.28	0.41
33	98164	148786	2254527412	108219	1686562065	128308681	345.28	0.42
34	114231	149684	2394127151	108221	1787496149	128308681	345.28	0.43
35	118968	150667	2545657828	108220	1896348352	128308681	345.28	0.44
36	123800	151651	2698187921	108220	2005215551	128308681	345.28	0.47
37	128728	152653	2851683571	108220	2114059039	128308681	345.28	0.47
38	133752	153675	3006157798	108219	2222874169	128308681	345.28	0.48
39	138871	154716	3161623593	108219	2331656302	128308681	345.28	0.48
40	144086	155777	3318093926	108218	2440400808	128308681	345.28	0.49
41	149397	156858	3475581743	108218	2549103074	128308681	345.28	0.49
42	154803	157958	3634099972	108217	2657758495	128308681	345.28	0.50
43	160305	159078	3793661515	108216	2766362480	128308681	345.28	0.50
44	182145	160219	3954438147	108217	2875023974	128308681	345.28	0.50
45	187747	161379	4116513631	108215	2983775737	128308681	345.28	0.51
46	193444	162539	4279666351	108215	3092470723	128308681	345.28	0.53
47	199237	163718	4443874580	108213	3201079748	128308681	345.28	0.53
48	205126	164917	4609151092	108212	3309598315	128308681	345.28	0.53
49	211109	166135	4775508629	108211	3418021935	128308681	345.28	0.53
50	217189	167372	4942959912	108209	3526346126	128308681	345.28	0.53
51	223363	168630	5111517641	108208	3634566420	128308681	345.28	0.53
52	229634	169906	5281194492	108207	3742678358	128308681	345.28	0.53
53	235999	171203	5452003118	108205	3850677490	128308681	345.28	0.53
54	242460	172519	5623956150	108204	3958559376	128308681	345.28	0.53
55	249017	173854	5797066193	108202	4066319584	128308681	345.28	0.53
56	255669	175210	5971345829	108201	4173953691	128308681	345.28	0.53

Pagina 125

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 60 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2720.00	1900.00	30200.00	0.00
2.00	43.82	45620.00	21760.00	0.00	4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = 29598	La = 0	---
---	---	Pb = -820	Tb = -7838	Lb = 0	---
3.00	43.82	45620.00	21760.00	0.00	-4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = -32706	La = 0	---
---	---	Pb = -5696	Tb = 54466	Lb = 0	---
4.00	37.02	36970.00	17470.00	78000.00	4.75
---	---	---	Ft = 75084	Fp = 18863	---
---	---	Pa = 40505	Ta = 6796	La = 62855	---
---	---	Pb = -3535	Tb = 10674	Lb = 15145	---
5.00	37.02	45620.00	21760.00	0.00	-4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = -32706	La = 0	---
---	---	Pb = -5696	Tb = 54466	Lb = 0	---
6.00	30.22	45620.00	21760.00	0.00	4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = 29598	La = 0	---
---	---	Pb = -820	Tb = -7838	Lb = 0	---
7.00	30.22	45620.00	21760.00	0.00	-4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = -32706	La = 0	---
---	---	Pb = -5696	Tb = 54466	Lb = 0	---

Pagina 126

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	3522	2282	2640279	30213	34607567	0	345.28	0.07
3	4362	2673	5328385	30216	63668796	0	345.28	0.12
4	5239	3082	8434224	30219	92770596	0	345.28	0.16
5	6155	3510	11976157	30223	121912598	0	345.28	0.20
6	7109	3956	15972500	30226	151094230	-0	345.28	0.22
7	58778	-695	18731718	30414	182689022	0	345.28	0.26
8	110485	2112	12225756	30598	216579831	-0	345.28	0.29
9	111553	2608	18099735	30596	250383418	0	345.28	0.31
10	112658	3121	24483327	30591	284093100	0	345.28	0.33
11	110544	36137	55459433	30574	317567600	0	345.28	0.34
12	111437	50815	111263764	30565	350932973	0	345.28	0.36
13	113501	51603	167953293	30787	388346772	0	345.28	0.39
14	163343	50146	223107543	30717	424686794	0	345.28	0.26
15	213253	26960	221720326	93689	525525337	178143150	345.28	0.30
16	215521	27589	255303967	93675	625663352	178143150	345.28	0.33
17	217856	28236	289503989	93660	725648363	178143150	345.28	0.35
18	215645	74861	360086181	103516	832916051	178143150	345.28	0.38
19	213501	94706	465059156	108747	948635365	187231630	345.28	0.42
20	216040	95411	565321599	108730	1062745799	187231630	345.28	0.45
21	269325	84144	659401649	108832	1178256005	187231630	345.28	0.48
22	322677	93976	751659459	108921	1295021062	187231630	345.28	0.51
23	333040	94743	853770519	108908	1411651776	187231630	345.28	0.53
24	336613	95688	952286897	109128	1522986356	187231630	345.28	0.55
25	337011	137945	1079956979	108847	1630805718	187231630	345.28	0.42
26	337490	143541	1220924655	108821	1738335439	187231630	345.28	0.44
27	341310	144300	1360859530	108801	1845650829	187231630	345.28	0.45
28	345212	145077	1501383053	108781	1952749322	187231630	345.28	0.46
29	349196	145870	1642500783	108761	2059628832	187231630	345.28	0.48
30	353262	146680	1784219259	108740	2166287653	187231630	345.28	0.49
31	357410	147507	1926545866	108720	2272724390	187231630	345.28	0.49
32	361641	148351	2069488720	108700	2378937899	187231630	345.28	0.50
33	365954	149212	2213056569	108680	2484927238	187231630	345.28	0.51
34	382021	150103	2357464202	108675	2590887733	187231630	345.28	0.52
35	386758	151060	2513865740	108645	2704807738	187231630	345.28	0.52
36	391590	152031	2671134145	108632	2818580176	187231630	345.28	0.55
37	396518	153013	2829122698	108608	2932051978	187231630	345.28	0.55
38	401542	154014	2987845353	108585	3045223516	187231630	345.28	0.56
39	406661	155035	3147316256	108562	3158094987	187231630	345.28	0.56
40	411876	156076	3307549866	108540	3270666586	187231630	345.28	0.56
41	417187	157136	3468560904	108518	3382938482	187231630	345.28	0.56
42	422593	158217	3630364303	108496	3494910810	187231630	345.28	0.57
43	428095	159317	3792975172	108474	3606583653	187231630	345.28	0.57
44	449935	160447	3956575060	108462	3718106345	187231630	345.28	0.57
45	455537	161584	4121200258	108436	3829434381	187231630	345.28	0.57
46	461234	162728	4286713147	108418	3940507176	187231630	345.28	0.59
47	467027	163888	4453041679	108396	4051246132	187231630	345.28	0.59
48	472916	165067	4620201852	108374	4161651732	187231630	345.28	0.59
49	478899	166266	4788209553	108352	4271724202	187231630	345.28	0.59
50	484979	167485	4957080682	108330	4381463662	187231630	345.28	0.59
51	491153	168724	5126831140	108309	4490870121	187231630	345.28	0.59
52	497424	169983	5297476817	108289	4599943481	187231630	345.28	0.58
53	503789	171261	5469033579	108268	4708683534	187231630	345.28	0.58
54	510250	172560	5641517261	108248	4817089968	187231630	345.28	0.58
55	516807	173879	5814943660	108229	4925162361	187231630	345.28	0.58
56	523459	175218	5989328526	108210	5032900190	187231630	345.28	0.58

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 61 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	1900.00	30200.00	0.00
2.00	43.82	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
3.00	43.82	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
4.00	37.02	0.00	17470.00	78000.00	4.75
---	---	---	Ft = 36890	Fp = 51579	---
---	---	Pa = 15528	Ta = -3093	La = 33319	---
---	---	Pb = -15528	Tb = 20563	Lb = 44681	---
5.00	37.02	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
6.00	30.22	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
7.00	30.22	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	2271	2545909	30200	34462843	0	345.28	0.07
3	1642	2660	5138683	30201	63374400	-0	345.28	0.12
4	2519	3067	8148232	30201	92321934	0	345.28	0.16
5	3435	3492	11592914	30202	121305264	0	345.28	0.19
6	4389	3936	15491042	30202	150323879	0	345.28	0.22
7	8399	1762	18252440	30205	179496067	0	345.28	0.24
8	12448	3327	15878818	30207	208814286	0	345.28	0.26
9	13516	3826	19955431	30207	238158209	0	345.28	0.28
10	14621	4342	24557909	30208	267526540	0	345.28	0.29
11	14545	33016	50362290	30208	296875413	0	345.28	0.30
12	17477	50503	103535219	30209	326306580	0	345.28	0.32
13	19541	51101	155085368	30216	357255839	0	345.28	0.34
14	32456	54095	208815207	30224	388197554	0	345.28	0.23
15	45439	47682	298660715	63540	452779914	94432002	345.28	0.27
16	47707	48322	347892579	63541	517095732	94432002	345.28	0.29
17	50042	48982	397819006	63541	581442155	94432002	345.28	0.30
18	43463	57386	451224515	92701	668015681	94432002	345.28	0.33
19	36951	94229	554220567	108215	780288309	121245266	345.28	0.36
20	39490	94948	649224512	108216	888399147	121245266	345.28	0.40
21	45116	89637	740939056	108217	996619813	121245266	345.28	0.42
22	50810	94891	831590857	108219	1104939012	121245266	345.28	0.45
23	61173	95671	927769448	108222	1213457962	121245266	345.28	0.47
24	64746	96420	1018498128	108230	1314933173	121245266	345.28	0.49
25	67182	133152	1136191349	108222	1415885564	121245266	345.28	0.38
26	69700	142989	1271764208	108222	1516840186	121245266	345.28	0.40
27	73520	143767	1405573834	108222	1617818740	121245266	345.28	0.41
28	77422	144561	1540148110	108223	1718817393	121245266	345.28	0.42
29	81406	145372	1675498009	108223	1819832296	121245266	345.28	0.43
30	85472	146200	1811634438	108223	1920859589	121245266	345.28	0.44
31	89620	147045	1948568242	108223	2021895401	121245266	345.28	0.45
32	93851	147907	2086310214	108223	2122935859	121245266	345.28	0.46
33	98164	148786	2224871095	108223	2223977083	121245266	345.28	0.47
34	114231	149684	2364455860	108226	2325185252	121245266	345.28	0.48
35	118968	150667	2515971148	108225	2434319121	121245266	345.28	0.48
36	123800	151650	2668486077	108225	2543463890	121245266	345.28	0.51
37	128728	152653	2821967166	108225	2652573875	121245266	345.28	0.52
38	133752	153675	2976427449	108224	2761644240	121245266	345.28	0.52
39	138871	154716	3131879925	108223	2870670152	121245266	345.28	0.52
40	144086	155777	3288337575	108222	2979646789	121245266	345.28	0.53
41	149397	156858	3445813357	108222	3088569343	121245266	345.28	0.53
42	154803	157958	3604320208	108221	3197433014	121245266	345.28	0.53
43	160305	159078	3763871042	108220	3306233017	121245266	345.28	0.53
44	182145	160219	3924636661	108220	3415096079	121245266	345.28	0.53
45	187747	161379	4086702090	108219	3524031886	121245266	345.28	0.54
46	193444	162539	4249845402	108218	3632899078	121245266	345.28	0.56
47	199237	163718	4414045088	108216	3741664453	121245266	345.28	0.56
48	205126	164917	4579313929	108215	3850323422	121245266	345.28	0.56
49	211109	166135	4745664673	108213	3958871389	121245266	345.28	0.56
50	217189	167372	4913110045	108212	4067303764	121245266	345.28	0.56
51	223363	168630	5081662753	108210	4175615962	121245266	345.28	0.56
52	229634	169906	5251335478	108208	4283803403	121245266	345.28	0.55
53	235999	171203	5422140883	108206	4391861513	121245266	345.28	0.55
54	242460	172519	5594091603	108205	4499785722	121245266	345.28	0.55
55	249017	173854	5767200251	108203	4607571464	121245266	345.28	0.55
56	255669	175209	5941479416	108201	4715214178	121245266	345.28	0.55

Pagina 129

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 62 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	5430.00	3800.00	6000.00	0.00
2.00	43.82	36970.00	17470.00	78000.00	4.75
---	---	---	Ft = 75084	Fp = 18863	---
---	---	Pa = 40505	Ta = 6796	La = 62855	---
---	---	Pb = -3535	Tb = 10674	Lb = 15145	---
3.00	43.82	45620.00	21760.00	0.00	-4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = -32706	La = 0	---
---	---	Pb = -5696	Tb = 54466	Lb = 0	---
4.00	37.02	36970.00	17470.00	78000.00	4.75
---	---	---	Ft = 75084	Fp = 18863	---
---	---	Pa = 40505	Ta = 6796	La = 62855	---
---	---	Pb = -3535	Tb = 10674	Lb = 15145	---
5.00	37.02	45620.00	21760.00	0.00	-4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = -32706	La = 0	---
---	---	Pb = -5696	Tb = 54466	Lb = 0	---
6.00	30.22	45620.00	21760.00	0.00	4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = 29598	La = 0	---
---	---	Pb = -820	Tb = -7838	Lb = 0	---
7.00	30.22	45620.00	21760.00	0.00	-4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = -32706	La = 0	---
---	---	Pb = -5696	Tb = 54466	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	6232	4188	4872035	6034	7254702	0	345.28	0.02
3	7072	4579	9436348	6038	13453639	-0	345.28	0.03
4	7949	4988	14413980	6042	19708609	0	345.28	0.04
5	8865	5416	19822926	6047	26021384	0	345.28	0.05
6	9819	5861	25681132	6052	32393711	0	345.28	0.06
7	58521	-5424	25707738	6931	42333061	0	345.28	0.08
8	107260	-18835	-16762897	69414	118141983	172575389	345.28	0.17
9	108328	-18339	-31431137	69411	190818286	172575389	345.28	0.24
10	109433	-17826	-45568148	69404	263450355	172575389	345.28	0.31
11	105962	21401	-30976464	77649	341720825	172575389	345.28	0.36
12	105497	48377	24740744	84500	429968423	180293136	345.28	0.42
13	107561	49136	78161233	84804	523687289	180293136	345.28	0.48
14	157403	47696	130275061	84714	616066913	180293136	345.28	0.34
15	207313	24499	125736002	147747	773835725	358436286	345.28	0.40
16	209581	25130	156201199	147728	930852243	358436286	345.28	0.45
17	211916	25780	187314850	147707	1087652611	358436286	345.28	0.49
18	209705	72408	254852508	157552	1251582410	358436286	345.28	0.53
19	207561	92257	356820547	162771	1423808299	367524766	345.28	0.57
20	210100	92963	454106100	162748	1594344013	367524766	345.28	0.61
21	263385	81688	545137869	162896	1766982299	367524766	345.28	0.65
22	316737	91514	634288409	163028	1941506879	367524766	345.28	0.68
23	327100	92282	733317972	163010	2115842489	367524766	345.28	0.71
24	330673	93206	828768888	163324	2282186650	367524766	345.28	0.73
25	331071	135491	953638556	162924	2443372118	367524766	345.28	0.56
26	331550	141090	1091831938	162887	2604132726	367524766	345.28	0.58
27	335370	141852	1229013849	162859	2764581083	367524766	345.28	0.59
28	339272	142630	1366805318	162830	2924713308	367524766	345.28	0.60
29	343256	143426	1505211493	162801	3084526220	367524766	345.28	0.61
30	347322	144238	1644238514	162773	3244017188	367524766	345.28	0.62
31	351470	145067	1783893382	162744	3403184033	367524766	345.28	0.63
32	355701	145913	1924183841	162716	3562024939	367524766	345.28	0.64
33	360014	146776	2065118280	162688	3720538387	367524766	345.28	0.65
34	376081	147668	2206901167	162681	3879016086	367524766	345.28	0.65
35	380818	148628	2360500655	162638	4049409912	367524766	345.28	0.66
36	385650	149601	2514980290	162619	4219588584	367524766	345.28	0.69
37	390578	150584	2670203047	162586	4389326734	367524766	345.28	0.69
38	395602	151588	2826182412	162553	4558624716	367524766	345.28	0.70
39	400721	152611	2982932103	162520	4727482632	367524766	345.28	0.70
40	405936	153654	3140466178	162488	4895900580	367524766	345.28	0.70
41	411247	154717	3298798970	162456	5063878624	367524766	345.28	0.70
42	416653	155800	3457945051	162425	5231416773	367524766	345.28	0.70
43	422155	156902	3617919184	162394	5398514964	367524766	345.28	0.70
44	443995	158033	3778895615	162377	5565396162	367524766	345.28	0.70
45	449597	159173	3940917735	162340	5731995415	367524766	345.28	0.70
46	455294	160318	4103844388	162314	5898219152	367524766	345.28	0.72
47	461087	161480	4267607996	162282	6063951281	367524766	345.28	0.72
48	466976	162661	4432224227	162250	6229192331	367524766	345.28	0.72
49	472959	163862	4597708667	162218	6393942454	367524766	345.28	0.72
50	479039	165083	4764076933	162188	6558201647	367524766	345.28	0.71
51	485213	166324	4931344659	162157	6721969750	367524766	345.28	0.71
52	491484	167585	5099527483	162128	6885246441	367524766	345.28	0.71
53	497849	168865	5268641032	162098	7048031244	367524766	345.28	0.71
54	504310	170166	5438700919	162070	7210323524	367524766	345.28	0.70
55	510867	171486	5609722730	162042	7372122494	367524766	345.28	0.70
56	517519	172827	5781722018	162014	7533427215	367524766	345.28	0.70

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 63 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	3800.00	6000.00	0.00
2.00	43.82	0.00	17470.00	78000.00	4.75
---	---	---	Ft = 36890	Fp = 51579	---
---	---	Pa = 15528	Ta = -3093	La = 33319	---
---	---	Pb = -15528	Tb = 20563	Lb = 44681	---
3.00	43.82	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
4.00	37.02	0.00	17470.00	78000.00	4.75
---	---	---	Ft = 36890	Fp = 51579	---
---	---	Pa = 15528	Ta = -3093	La = 33319	---
---	---	Pb = -15528	Tb = 20563	Lb = 44681	---
5.00	37.02	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---
6.00	30.22	0.00	21760.00	0.00	4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 21760	Lb = 0	---
7.00	30.22	0.00	21760.00	0.00	-4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = -1554	La = 0	---
---	---	Pb = -2438	Tb = 23314	Lb = 0	---

Pagina 132

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	802	4171	4713463	6001	6882259	0	345.28	0.02
3	1642	4560	9123873	6002	12698458	0	345.28	0.03
4	2519	4967	13952628	6002	18560168	0	345.28	0.04
5	3435	5393	19218048	6003	24468874	0	345.28	0.05
6	4389	5836	24938386	6004	30425999	0	345.28	0.06
7	16164	20338	40569846	6345	37200312	0	345.28	0.08
8	27976	2145	74799319	39345	77833950	91480585	345.28	0.14
9	29044	2643	78264838	39345	116854793	91480585	345.28	0.17
10	30149	3160	82247073	39346	155913055	91480585	345.28	0.19
11	22310	8841	88454233	63757	212239448	91480585	345.28	0.23
12	17477	48115	143189959	84015	298289199	114249847	345.28	0.31
13	19541	48713	192387539	84026	382938796	114249847	345.28	0.38
14	32456	51707	243761509	84034	467586816	114249847	345.28	0.27
15	45439	45294	331251191	117353	586064919	208681849	345.28	0.33
16	47707	45934	378124779	117354	704298548	208681849	345.28	0.37
17	50042	46594	425690669	117354	822581553	208681849	345.28	0.40
18	43463	54998	476733328	146512	962980661	208681849	345.28	0.43
19	36951	91840	577365032	162024	1128972125	235495114	345.28	0.48
20	39490	92559	670003404	162025	1290819300	235495114	345.28	0.52
21	45116	87248	759350999	162027	1452830010	235495114	345.28	0.56
22	50810	92503	847634407	162029	1614987615	235495114	345.28	0.59
23	61173	93282	941442651	162034	1777442179	235495114	345.28	0.62
24	64746	94032	1029962796	162047	1929345308	235495114	345.28	0.64
25	67182	130763	1145449260	162034	2080474051	235495114	345.28	0.50
26	69700	140600	1278814676	162034	2231606693	235495114	345.28	0.51
27	73520	141378	1410416073	162034	2382775389	235495114	345.28	0.53
28	77422	142172	1542781389	162035	2533974424	235495114	345.28	0.54
29	81406	142984	1675921651	162035	2685198064	235495114	345.28	0.55
30	85472	143812	1809847822	162035	2836440552	235495114	345.28	0.56
31	89620	144656	1944570807	162036	2987696118	235495114	345.28	0.57
32	93851	145518	2080101457	162036	3138958983	235495114	345.28	0.58
33	98164	146396	2216450573	162036	3290223361	235495114	345.28	0.59
34	114231	147295	2353821675	162040	3441736157	235495114	345.28	0.60
35	118968	148278	2502948837	162038	3605115005	235495114	345.28	0.61
36	123800	149261	2653075071	162039	3768510453	235495114	345.28	0.64
37	128728	150264	2804167350	162038	3931854583	235495114	345.28	0.64
38	133752	151285	2956238797	162037	4095140169	235495114	345.28	0.64
39	138871	152327	3109302505	162036	4258359985	235495114	345.28	0.65
40	144086	153388	3263371544	162034	4421506826	235495114	345.28	0.65
41	149397	154468	3418458963	162033	4584573506	235495114	345.28	0.65
42	154803	155568	3574577791	162032	4747552854	235495114	345.28	0.65
43	160305	156688	3731741031	162030	4910437717	235495114	345.28	0.65
44	182145	157830	3890118107	162031	5073416613	235495114	345.28	0.66
45	187747	158990	4049791986	162029	5236505628	235495114	345.28	0.66
46	193444	160150	4210544317	162027	5399492726	235495114	345.28	0.68
47	199237	161329	4372354006	162025	5562328471	235495114	345.28	0.68
48	205126	162527	4535233925	162023	5725005998	235495114	345.28	0.68
49	211109	163745	4699196916	162020	5887518434	235495114	345.28	0.68
50	217189	164983	4864255798	162018	6049858913	235495114	345.28	0.68
51	223363	166240	5030423368	162015	6212020580	235495114	345.28	0.67
52	229634	167517	5197712403	162012	6373996585	235495114	345.28	0.67
53	235999	168813	5366135653	162010	6535780088	235495114	345.28	0.67
54	242460	170129	5535705846	162007	6697364256	235495114	345.28	0.67
55	249017	171464	5706435684	162004	6858742261	235495114	345.28	0.67
56	255669	172820	5878337846	162001	7019907286	235495114	345.28	0.66

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 64 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	4680.00	1130.00	39000.00	0.00
2.00	43.82	59930.00	8120.00	0.00	4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = 40344	La = 0	---
---	---	Pb = -3370	Tb = -32224	Lb = 0	---
3.00	43.82	59930.00	8120.00	0.00	-4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = -41504	La = 0	---
---	---	Pb = -5189	Tb = 49624	Lb = 0	---
4.00	37.02	59930.00	8120.00	0.00	4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = 40344	La = 0	---
---	---	Pb = -3370	Tb = -32224	Lb = 0	---
5.00	37.02	59930.00	8120.00	0.00	-4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = -41504	La = 0	---
---	---	Pb = -5189	Tb = 49624	Lb = 0	---
6.00	30.22	47700.00	6380.00	96000.00	4.75
---	---	---	Ft = 101536	Fp = 9028	---
---	---	Pa = 49815	Ta = 1893	La = 88456	---
---	---	Pb = -2115	Tb = 4487	Lb = 7544	---
7.00	30.22	59930.00	8120.00	0.00	-4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = -41504	La = 0	---
---	---	Pb = -5189	Tb = 49624	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	5482	1230	1441740	39029	44767268	0	345.28	0.10
3	6322	1328	2776665	39033	82362698	0	345.28	0.16
4	7199	1431	4218471	39037	120000257	0	345.28	0.21
5	8115	1538	5771788	39042	157678705	0	345.28	0.25
6	9069	1650	7441232	39047	195396661	0	345.28	0.29
7	76070	-109	8726614	39390	236504928	0	345.28	0.33
8	143109	912	6626870	39727	280807031	0	345.28	0.38
9	144177	1034	9083380	39721	324934581	0	345.28	0.40
10	145282	1161	11663778	39710	368875689	0	345.28	0.42
11	142146	13411	23343640	39676	412432027	0	345.28	0.44
12	142017	18817	44204790	39654	455739744	0	345.28	0.45
13	144081	19075	65463289	40046	504301208	0	345.28	0.47
14	212222	18855	86341754	39912	551562490	0	345.28	0.31
15	280432	18256	101397921	40170	601280900	0	345.28	0.32
16	282700	18408	122330791	40140	650750197	0	345.28	0.33
17	285035	18564	143384013	40109	699971106	0	345.28	0.33
18	283159	32983	175906784	40059	748790193	0	345.28	0.33
19	281351	36281	215312637	40010	797219916	0	345.28	0.34
20	283890	36451	253843598	39976	845418342	0	345.28	0.34
21	345764	-2765	266043094	44492	898276826	0	345.28	0.35
22	407706	-2700	235279150	128732	1046070587	259357713	345.28	0.38
23	418069	-2515	236117993	128700	1184904991	259357713	345.28	0.40
24	421642	-2220	238232155	129083	1317915063	259357713	345.28	0.42
25	421645	41323	271650077	133829	1450082972	259357713	345.28	0.33
26	421730	52112	325466868	136086	1585635491	264526741	345.28	0.34
27	425550	52295	376453451	136048	1720330894	264526741	345.28	0.36
28	429452	52483	427567268	136011	1854753009	264526741	345.28	0.37
29	433436	52674	478806926	135973	1988894748	264526741	345.28	0.38
30	437502	52870	530171614	135936	2122750110	264526741	345.28	0.39
31	441650	53071	581661028	135899	2256314022	264526741	345.28	0.39
32	445881	53275	633275308	135862	2389582200	264526741	345.28	0.40
33	450194	53484	685014976	135826	2522551028	264526741	345.28	0.41
34	466261	53703	736949648	135811	2655434929	264526741	345.28	0.41
35	470998	53933	793070750	135758	2798265179	264526741	345.28	0.42
36	475830	54171	849388890	135734	2940898657	264526741	345.28	0.44
37	480758	54410	905840945	135692	3083127117	264526741	345.28	0.44
38	485782	54653	962429349	135651	3224949734	264526741	345.28	0.45
39	490901	54901	1019156688	135611	3366365661	264526741	345.28	0.45
40	496116	55154	1076025755	135572	3507374307	264526741	345.28	0.45
41	501427	55413	1133039522	135533	3647975271	264526741	345.28	0.45
42	506833	55676	1190201112	135496	3788168306	264526741	345.28	0.45
43	512335	55945	1247513777	135458	3927953267	264526741	345.28	0.45
44	534175	56222	1305037162	135435	4067499197	264526741	345.28	0.45
45	539777	56499	1362780273	135391	4206763655	264526741	345.28	0.45
46	545474	56780	1420702001	135360	4345682836	264526741	345.28	0.47
47	551267	57063	1478770786	135323	4484151341	264526741	345.28	0.47
48	557156	57351	1536990458	135286	4622170108	264526741	345.28	0.47
49	563139	57644	1595364818	135249	4759739778	264526741	345.28	0.47
50	569219	57943	1653897699	135214	4896860934	264526741	345.28	0.47
51	575393	58247	1712592964	135179	5033534088	264526741	345.28	0.46
52	581664	58555	1771454491	135145	5169759671	264526741	345.28	0.46
53	588029	58869	1830486170	135111	5305538030	264526741	345.28	0.46
54	594490	59188	1889691898	135079	5440869418	264526741	345.28	0.46
55	601047	59512	1949075573	135047	5575753992	264526741	345.28	0.46
56	607699	59841	2008641091	135016	5710191811	264526741	345.28	0.45

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 65 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	1130.00	39000.00	0.00
2.00	43.82	0.00	8120.00	0.00	4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 8120	Lb = 0	---
3.00	43.82	0.00	8120.00	0.00	-4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = -580	La = 0	---
---	---	Pb = -910	Tb = 8700	Lb = 0	---
4.00	37.02	0.00	8120.00	0.00	4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 8120	Lb = 0	---
5.00	37.02	0.00	8120.00	0.00	-4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = -580	La = 0	---
---	---	Pb = -910	Tb = 8700	Lb = 0	---
6.00	30.22	0.00	6380.00	96000.00	4.75
---	---	---	Ft = 54071	Fp = 52755	---
---	---	Pa = 19207	Ta = -9761	La = 49593	---
---	---	Pb = -19207	Tb = 16141	Lb = 46407	---
7.00	30.22	0.00	8120.00	0.00	-4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = -580	La = 0	---
---	---	Pb = -910	Tb = 8700	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	1222	1386037	39000	44497162	0	345.28	0.09
3	1642	1319	2665583	39001	81817275	0	345.28	0.16
4	2519	1421	4052385	39001	119175343	0	345.28	0.21
5	3435	1527	5551116	39002	156570794	0	345.28	0.25
6	4389	1638	7166435	39002	194002632	-0	345.28	0.28
7	7635	769	8293188	39004	231562550	-0	345.28	0.31
8	10920	1294	7437236	39006	269242710	-0	345.28	0.34
9	11987	1418	8929162	39006	306948186	0	345.28	0.36
10	13093	1547	10556059	39007	344677016	0	345.28	0.37
11	13781	12181	20040374	39007	382411066	0	345.28	0.38
12	17477	18638	39680368	39009	420250663	0	345.28	0.40
13	19541	18788	58631780	39015	459901731	0	345.28	0.41
14	23928	18770	77523889	39011	499253590	0	345.28	0.26
15	28382	18512	93274672	39013	538722298	0	345.28	0.27
16	30650	18671	112081633	39014	578232974	0	345.28	0.27
17	32986	18836	131071206	39014	617784015	0	345.28	0.27
18	34934	31437	160021922	39015	657360770	-0	345.28	0.27
19	36951	36000	197273660	39015	696962451	-0	345.28	0.28
20	39490	36179	233461572	39016	736600495	-0	345.28	0.28
21	53955	80683	300328267	41463	778232897	-0	345.28	0.29
22	68489	26215	358750171	88618	872525596	145407723	345.28	0.31
23	78852	26409	385604615	88621	962076607	145407723	345.28	0.32
24	82425	26598	411014540	88631	1046052224	145407723	345.28	0.33
25	76022	8800	417860532	120846	1152544400	145407723	345.28	0.26
26	69700	51807	475689441	135022	1281826199	177206826	345.28	0.27
27	73520	52001	524091506	135023	1407498220	177206826	345.28	0.29
28	77422	52199	572687651	135023	1533199432	177206826	345.28	0.30
29	81406	52401	621480087	135023	1658925463	177206826	345.28	0.31
30	85472	52608	670471000	135023	1784671903	177206826	345.28	0.32
31	89620	52818	719662559	135023	1910434314	177206826	345.28	0.33
32	93851	53033	769056918	135024	2036208233	177206826	345.28	0.34
33	98164	53252	818656215	135024	2161989179	177206826	345.28	0.35
34	114231	53476	868532844	135026	2287952881	177206826	345.28	0.35
35	118968	53721	922566290	135025	2423796747	177206826	345.28	0.36
36	123800	53966	976851088	135026	2559658886	177206826	345.28	0.38
37	128728	54216	1031372955	135025	2695490257	177206826	345.28	0.39
38	133752	54471	1086134441	135025	2831285041	177206826	345.28	0.39
39	138871	54731	1141138090	135024	2967037430	177206826	345.28	0.39
40	144086	54995	1196386444	135023	3102741627	177206826	345.28	0.40
41	149397	55264	1251882037	135022	3238391855	177206826	345.28	0.40
42	154803	55538	1307627405	135021	3373982348	177206826	345.28	0.40
43	160305	55817	1363625076	135020	3509507357	177206826	345.28	0.40
44	182145	56102	1419934294	135021	3645104713	177206826	345.28	0.40
45	187747	56391	1476580636	135019	3780812821	177206826	345.28	0.40
46	193444	56680	1533486942	135018	3916448825	177206826	345.28	0.42
47	199237	56974	1590643405	135017	4051975880	177206826	345.28	0.42
48	205126	57272	1648052536	135015	4187388367	177206826	345.28	0.42
49	211109	57576	1705716840	135014	4322680672	177206826	345.28	0.42
50	217189	57884	1763638818	135012	4457847192	177206826	345.28	0.42
51	223363	58197	1821820969	135010	4592882340	177206826	345.28	0.42
52	229634	58516	1880265785	135008	4727780540	177206826	345.28	0.42
53	235999	58839	1938975754	135007	4862536226	177206826	345.28	0.42
54	242460	59166	1997953363	135005	4997143844	177206826	345.28	0.42
55	249017	59499	2057201089	135003	5131597851	177206826	345.28	0.42
56	255669	59837	2116721407	135001	5265892712	177206826	345.28	0.41

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 66 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	4680.00	1130.00	39000.00	0.00
2.00	43.82	59930.00	8120.00	0.00	4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = 40344	La = 0	---
---	---	Pb = -3370	Tb = -32224	Lb = 0	---
3.00	43.82	59930.00	8120.00	0.00	-4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = -41504	La = 0	---
---	---	Pb = -5189	Tb = 49624	Lb = 0	---
4.00	37.02	47700.00	6380.00	96000.00	4.75
---	---	---	Ft = 101536	Fp = 9028	---
---	---	Pa = 49815	Ta = 1893	La = 88456	---
---	---	Pb = -2115	Tb = 4487	Lb = 7544	---
5.00	37.02	59930.00	8120.00	0.00	-4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = -41504	La = 0	---
---	---	Pb = -5189	Tb = 49624	Lb = 0	---
6.00	30.22	59930.00	8120.00	0.00	4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = 40344	La = 0	---
---	---	Pb = -3370	Tb = -32224	Lb = 0	---
7.00	30.22	59930.00	8120.00	0.00	-4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = -41504	La = 0	---
---	---	Pb = -5189	Tb = 49624	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	5482	1229	1431428	39036	44834970	0	345.28	0.10
3	6322	1327	2754490	39041	82508290	-0	345.28	0.16
4	7199	1430	4182817	39046	120234349	0	345.28	0.21
5	8115	1537	5720973	39052	158012335	-0	345.28	0.25
6	9069	1648	7373510	39058	195841288	0	345.28	0.29
7	76070	-122	8517392	39484	237878576	0	345.28	0.34
8	143109	889	6152217	39903	283923336	0	345.28	0.38
9	144177	1012	8342416	39895	329799299	0	345.28	0.41
10	145282	1138	10655834	39881	375493173	0	345.28	0.43
11	142146	13390	22076022	39839	420754258	0	345.28	0.45
12	142017	18797	42679416	39812	465754063	0	345.28	0.46
13	144081	19042	63498356	40298	517200993	0	345.28	0.48
14	205480	16343	82283257	40118	566705314	0	345.28	0.32
15	266947	-20245	15755748	128836	707403667	250701775	345.28	0.37
16	269215	-20091	-1929672	128802	847038785	250701775	345.28	0.41
17	271550	-19933	-19440941	128764	986374263	250701775	345.28	0.44
18	270301	20456	-5125063	133631	1129002592	250701775	345.28	0.48
19	269121	34501	35182172	136195	1275496809	255228736	345.28	0.51
20	271660	34673	71672281	136154	1420924539	255228736	345.28	0.53
21	340276	30391	105826541	136381	1568753380	255228736	345.28	0.56
22	408961	33979	139276144	136581	1718729496	255228736	345.28	0.59
23	419324	34165	176318596	136540	1868355082	255228736	345.28	0.61
24	422897	34452	212099877	137013	2012241184	255228736	345.28	0.62
25	422273	50096	258608740	136400	2150208169	255228736	345.28	0.47
26	421730	52086	309995702	136338	2287648312	255228736	345.28	0.48
27	425550	52271	360912345	136291	2424694988	255228736	345.28	0.49
28	429452	52459	411959822	136244	2561346416	255228736	345.28	0.49
29	433436	52652	463136560	136197	2697601623	255228736	345.28	0.50
30	437502	52849	514441586	136151	2833460258	255228736	345.28	0.50
31	441650	53051	565874446	136105	2968922476	255228736	345.28	0.51
32	445881	53256	617435136	136059	3103988831	255228736	345.28	0.51
33	450194	53466	669124049	136014	3238660191	255228736	345.28	0.51
34	466261	53685	721009445	135995	3373196529	255228736	345.28	0.51
35	470998	53917	777081340	135929	3517676212	255228736	345.28	0.51
36	475830	54156	833352332	135899	3661889786	255228736	345.28	0.54
37	480758	54395	889760342	135848	3805594146	255228736	345.28	0.54
38	485782	54639	946307667	135798	3948792993	255228736	345.28	0.54
39	490901	54888	1002996770	135748	4091489604	255228736	345.28	0.53
40	496116	55143	1059830333	135700	4233687206	255228736	345.28	0.53
41	501427	55402	1116811223	135652	4375388947	255228736	345.28	0.53
42	506833	55666	1173942467	135606	4516597872	255228736	345.28	0.53
43	512335	55935	1231227225	135560	4657316899	255228736	345.28	0.53
44	534175	56214	1288724257	135531	4797744761	255228736	345.28	0.53
45	539777	56491	1346443766	135477	4937799048	255228736	345.28	0.52
46	545474	56772	1404343816	135440	5077443466	255228736	345.28	0.54
47	551267	57056	1462393282	135394	5216558322	255228736	345.28	0.54
48	557156	57345	1520595917	135348	5355147079	255228736	345.28	0.53
49	563139	57639	1578955451	135304	5493212686	255228736	345.28	0.53
50	569219	57939	1637475657	135261	5630757877	255228736	345.28	0.52
51	575393	58243	1696160334	135218	5767785176	255228736	345.28	0.52
52	581664	58552	1755013306	135176	5904296897	255228736	345.28	0.52
53	588029	58867	1814038411	135136	6040295145	255228736	345.28	0.51
54	594490	59186	1873239497	135096	6175781819	255228736	345.28	0.51
55	601047	59511	1932620416	135057	6310758618	255228736	345.28	0.51
56	607699	59841	1992185019	135019	6445227042	255228736	345.28	0.50

Pagina 139

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 67 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	1130.00	39000.00	0.00
2.00	43.82	0.00	8120.00	0.00	4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 8120	Lb = 0	---
3.00	43.82	0.00	8120.00	0.00	-4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = -580	La = 0	---
---	---	Pb = -910	Tb = 8700	Lb = 0	---
4.00	37.02	0.00	6380.00	96000.00	4.75
---	---	---	Ft = 54071	Fp = 52755	---
---	---	Pa = 19207	Ta = -9761	La = 49593	---
---	---	Pb = -19207	Tb = 16141	Lb = 46407	---
5.00	37.02	0.00	8120.00	0.00	-4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = -580	La = 0	---
---	---	Pb = -910	Tb = 8700	Lb = 0	---
6.00	30.22	0.00	8120.00	0.00	4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 8120	Lb = 0	---
7.00	30.22	0.00	8120.00	0.00	-4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = -580	La = 0	---
---	---	Pb = -910	Tb = 8700	Lb = 0	---

Pagina 140

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	1222	1386067	39001	44504620	0	345.28	0.09
3	1642	1320	2665673	39001	81839969	-0	345.28	0.16
4	2519	1421	4052567	39002	119221370	0	345.28	0.21
5	3435	1527	5551425	39002	156648572	0	345.28	0.25
6	4389	1638	7166904	39003	194120901	0	345.28	0.28
7	7635	769	8293936	39005	231751140	0	345.28	0.31
8	10920	1294	7438382	39008	269531700	-0	345.28	0.34
9	11987	1418	8930745	39008	307347205	0	345.28	0.36
10	13093	1547	10558118	39009	345196012	0	345.28	0.37
11	13781	12181	20042934	39009	383056141	0	345.28	0.38
12	17477	18638	39683561	39011	421055363	0	345.28	0.40
13	19541	18788	58636169	39020	461008061	0	345.28	0.41
14	33531	22282	79960817	39033	500997036	0	345.28	0.26
15	47590	8755	146835047	88621	591017440	140554811	345.28	0.30
16	49858	8914	156198097	88622	680630665	140554811	345.28	0.32
17	52193	9079	165736250	88622	770278953	140554811	345.28	0.34
18	44538	-3767	161238016	118908	882912223	140554811	345.28	0.36
19	36951	34260	204302404	135019	1022142431	168404008	345.28	0.40
20	39490	34439	238759443	135020	1157056703	168404008	345.28	0.43
21	44352	32366	271889326	135022	1292083350	168404008	345.28	0.45
22	49282	34233	304521069	135023	1427209988	168404008	345.28	0.47
23	59645	34427	339117302	135027	1562590736	168404008	345.28	0.49
24	63218	34615	371673511	135037	1689179874	168404008	345.28	0.51
25	66418	48230	414225351	135027	1815143090	168404008	345.28	0.39
26	69700	51807	463368332	135028	1941128646	168404008	345.28	0.40
27	73520	52001	511764048	135028	2067143770	168404008	345.28	0.41
28	77422	52199	560353927	135028	2193183645	168404008	345.28	0.41
29	81406	52401	609140186	135029	2319243435	168404008	345.28	0.42
30	85472	52608	658125022	135029	2445318288	168404008	345.28	0.43
31	89620	52818	707310610	135029	2571403348	168404008	345.28	0.43
32	93851	53033	756699113	135029	2697493750	168404008	345.28	0.43
33	98164	53252	806292675	135029	2823584626	168404008	345.28	0.44
34	114231	53476	856163058	135032	2949885827	168404008	345.28	0.44
35	118968	53721	910190087	135032	3086076526	168404008	345.28	0.45
36	123800	53966	964468559	135032	3222280453	168404008	345.28	0.47
37	128728	54216	1018984354	135031	3358439978	168404008	345.28	0.47
38	133752	54471	1073740024	135030	3494549050	168404008	345.28	0.47
39	138871	54730	1128738118	135029	3630601620	168404008	345.28	0.47
40	144086	54995	1183981182	135028	3766591655	168404008	345.28	0.47
41	149397	55264	1239471756	135027	3902513136	168404008	345.28	0.47
42	154803	55538	1295212379	135026	4038360060	168404008	345.28	0.47
43	160305	55817	1351205583	135025	4174126438	168404008	345.28	0.47
44	182145	56102	1407510209	135026	4309971998	168404008	345.28	0.47
45	187747	56391	1464152356	135024	4445906731	168404008	345.28	0.47
46	193444	56680	1521054739	135023	4581754783	168404008	345.28	0.48
47	199237	56974	1578207639	135021	4717474362	168404008	345.28	0.48
48	205126	57272	1635613570	135019	4853059734	168404008	345.28	0.48
49	211109	57576	1693275041	135017	4988505156	168404008	345.28	0.48
50	217189	57884	1751194554	135015	5123804890	168404008	345.28	0.47
51	223363	58197	1809374611	135012	5258953205	168404008	345.28	0.47
52	229634	58516	1867817706	135010	5393944377	168404008	345.28	0.47
53	235999	58838	1926526332	135008	5528772686	168404008	345.28	0.47
54	242460	59166	1985502976	135006	5663432419	168404008	345.28	0.46
55	249017	59499	2044750120	135003	5797917867	168404008	345.28	0.46
56	255669	59837	2104270243	135001	5932223327	168404008	345.28	0.46

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 68 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	9360.00	2260.00	8000.00	0.00
2.00	43.82	47700.00	6380.00	96000.00	4.75
---	---	---	Ft = 101536	Fp = 9028	---
---	---	Pa = 49815	Ta = 1893	La = 88456	---
---	---	Pb = -2115	Tb = 4487	Lb = 7544	---
3.00	43.82	59930.00	8120.00	0.00	-4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = -41504	La = 0	---
---	---	Pb = -5189	Tb = 49624	Lb = 0	---
4.00	37.02	47700.00	6380.00	96000.00	4.75
---	---	---	Ft = 101536	Fp = 9028	---
---	---	Pa = 49815	Ta = 1893	La = 88456	---
---	---	Pb = -2115	Tb = 4487	Lb = 7544	---
5.00	37.02	59930.00	8120.00	0.00	-4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = -41504	La = 0	---
---	---	Pb = -5189	Tb = 49624	Lb = 0	---
6.00	30.22	59930.00	8120.00	0.00	4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = 40344	La = 0	---
---	---	Pb = -3370	Tb = -32224	Lb = 0	---
7.00	30.22	59930.00	8120.00	0.00	-4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = -41504	La = 0	---
---	---	Pb = -5189	Tb = 49624	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm²]	% Uso
2	10162	2360	2687952	8094	10026879	0	345.28	0.02
3	11002	2457	5051847	8102	18645177	0	345.28	0.04
4	11879	2559	7513923	8109	27337010	0	345.28	0.05
5	12795	2666	10078319	8117	36104528	0	345.28	0.06
6	13749	2777	12749172	8125	44949900	0	345.28	0.07
7	74007	-13919	4752418	9547	59606972	0	345.28	0.10
8	134304	-36516	-68716789	97660	167737365	242866237	345.28	0.25
9	135372	-36392	-103233593	97649	271421290	242866237	345.28	0.36
10	136477	-36263	-137561940	97631	374991982	242866237	345.28	0.45
11	133969	-2139	-146677757	101701	481088978	242866237	345.28	0.53
12	134467	18115	-123686457	105092	592004652	246710438	345.28	0.59
13	136531	18319	-104709861	105748	712810021	246710438	345.28	0.65
14	197930	15641	-87500081	105524	831184346	246710438	345.28	0.45
15	259397	-20969	-155793475	194365	1042158812	497412213	345.28	0.53
16	261665	-20811	-175171432	194319	1251963321	497412213	345.28	0.60
17	264000	-20649	-194307260	194268	1461345167	497412213	345.28	0.65
18	262751	19745	-181540489	199114	1673801392	497412213	345.28	0.70
19	261571	33795	-142712709	201657	1889899986	501939174	345.28	0.74
20	264110	33972	-107647893	201602	2104781879	501939174	345.28	0.78
21	332726	29673	-75042079	201928	2323225369	501939174	345.28	0.81
22	401411	33247	-43239954	202217	2544856707	501939174	345.28	0.85
23	411774	33438	-7790865	202161	2765992206	501939174	345.28	0.88
24	415347	33691	26252875	202826	2978511542	501939174	345.28	0.90
25	414723	49381	71396904	201966	3182456219	501939174	345.28	0.68
26	414180	51376	121464248	201880	3385637606	501939174	345.28	0.69
27	418000	51565	171097386	201814	3588252602	501939174	345.28	0.70
28	421902	51757	220895898	201749	3790298419	501939174	345.28	0.71
29	425886	51954	270856747	201684	3991773435	501939174	345.28	0.72
30	429952	52155	320977592	201619	4192676926	501939174	345.28	0.72
31	434100	52360	371256708	201555	4393008892	501939174	345.28	0.73
32	438331	52569	421692905	201491	4592769911	501939174	345.28	0.73
33	442644	52783	472285469	201428	4791961018	501939174	345.28	0.73
34	458711	53004	523089491	201402	4990965546	501939174	345.28	0.73
35	463448	53240	578035073	201310	5204699311	501939174	345.28	0.74
36	468280	53482	633200000	201268	5418049708	501939174	345.28	0.77
37	473208	53725	688533429	201196	5630663488	501939174	345.28	0.77
38	478232	53973	744036478	201126	5842545708	501939174	345.28	0.77
39	483351	54225	799710543	201056	6053700824	501939174	345.28	0.76
40	488566	54483	855557309	200988	6264133225	501939174	345.28	0.76
41	493877	54746	911578716	200921	6473847189	501939174	345.28	0.76
42	499283	55014	967776920	200856	6682846843	501939174	345.28	0.76
43	504785	55286	1024154271	200791	6891136140	501939174	345.28	0.75
44	526625	55566	1080760760	200751	7099008058	501939174	345.28	0.75
45	532227	55848	1137617904	200675	7306343831	501939174	345.28	0.75
46	537924	56132	1194675985	200622	7513084488	501939174	345.28	0.77
47	543717	56419	1251908634	200557	7719055569	501939174	345.28	0.76
48	549606	56711	1309318904	200493	7924261815	501939174	345.28	0.76
49	555589	57008	1366909895	200430	8128707235	501939174	345.28	0.75
50	561669	57311	1424684782	200369	8332395536	501939174	345.28	0.75
51	567843	57618	1482646809	200309	8535330117	501939174	345.28	0.74
52	574114	57930	1540799275	200250	8737514077	501939174	345.28	0.74
53	580479	58247	1599145525	200192	8938950215	501939174	345.28	0.73
54	586940	58570	1657688945	200136	9139641037	501939174	345.28	0.73
55	593497	58897	1716432952	200081	9339588756	501939174	345.28	0.72
56	600149	59229	1775380990	200027	9538795305	501939174	345.28	0.71

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 69 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 "

Pressione trasversale del vento = 176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	2260.00	8000.00	0.00
2.00	43.82	0.00	6380.00	96000.00	4.75
---	---	---	Ft = 54071	Fp = 52755	---
---	---	Pa = 19207	Ta = -9761	La = 49593	---
---	---	Pb = -19207	Tb = 16141	Lb = 46407	---
3.00	43.82	0.00	8120.00	0.00	-4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = -580	La = 0	---
---	---	Pb = -910	Tb = 8700	Lb = 0	---
4.00	37.02	0.00	6380.00	96000.00	4.75
---	---	---	Ft = 54071	Fp = 52755	---
---	---	Pa = 19207	Ta = -9761	La = 49593	---
---	---	Pb = -19207	Tb = 16141	Lb = 46407	---
5.00	37.02	0.00	8120.00	0.00	-4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = -580	La = 0	---
---	---	Pb = -910	Tb = 8700	Lb = 0	---
6.00	30.22	0.00	8120.00	0.00	4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = 8120	Lb = 0	---
7.00	30.22	0.00	8120.00	0.00	-4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = -580	La = 0	---
---	---	Pb = -910	Tb = 8700	Lb = 0	---

Pagina 144

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	802	2353	2675516	8001	9173879	0	345.28	0.02
3	1642	2450	5036802	8002	16923776	-0	345.28	0.03
4	2519	2551	7506661	8003	24731676	0	345.28	0.05
5	3435	2657	10089763	8004	32599456	0	345.28	0.05
6	4389	2768	12790743	8005	40528905	0	345.28	0.06
7	17239	22463	28429670	8512	49615577	0	345.28	0.08
8	30127	-7332	65318729	57629	109040000	136161852	345.28	0.16
9	31195	-7207	58821597	57629	166052266	136161852	345.28	0.21
10	32300	-7079	52451808	57630	223107875	136161852	345.28	0.25
11	23385	-19688	34424020	82981	297931971	136161852	345.28	0.30
12	17477	18029	59294584	104019	403500203	159810808	345.28	0.38
13	19541	18179	77654835	104033	508346704	159810808	345.28	0.45
14	33531	21673	98385851	104046	613255572	159810808	345.28	0.32
15	47590	8146	164668766	153639	768448053	300365619	345.28	0.38
16	49858	8305	173439444	153639	923258668	300365619	345.28	0.43
17	52193	8470	182384237	153640	1078125532	300365619	345.28	0.47
18	44538	-4376	177290044	183922	1255820522	300365619	345.28	0.51
19	36951	33650	219756383	200031	1459962173	328214816	345.28	0.56
20	39490	33830	253614950	200032	1659808834	328214816	345.28	0.60
21	44352	31756	286146177	200034	1859821214	328214816	345.28	0.64
22	49282	33623	318179011	200036	2059981259	328214816	345.28	0.67
23	59645	33818	352176438	200042	2260514811	328214816	345.28	0.70
24	63218	34006	384176598	200058	2448016586	328214816	345.28	0.72
25	66418	47621	426170626	200043	2634601903	328214816	345.28	0.56
26	69700	51198	474755509	200043	2821220769	328214816	345.28	0.57
27	73520	51391	522592866	200044	3007883742	328214816	345.28	0.58
28	77422	51589	570624131	200044	3194583720	328214816	345.28	0.59
29	81406	51792	618851528	200045	3381313574	328214816	345.28	0.60
30	85472	51998	667277261	200045	3568066152	328214816	345.28	0.61
31	89620	52209	715903517	200045	3754834288	328214816	345.28	0.62
32	93851	52424	764732463	200045	3941610808	328214816	345.28	0.62
33	98164	52643	813766256	200045	4128388529	328214816	345.28	0.63
34	114231	52867	863076807	200050	4315475746	328214816	345.28	0.63
35	118968	53112	916499618	200048	4517213362	328214816	345.28	0.64
36	123800	53357	970173652	200049	4718970958	328214816	345.28	0.67
37	128728	53607	1024084768	200048	4920663809	328214816	345.28	0.67
38	133752	53861	1078235542	200046	5122282970	328214816	345.28	0.67
39	138871	54121	1132628541	200045	5323819497	328214816	345.28	0.67
40	144086	54385	1187266331	200043	5525264471	328214816	345.28	0.67
41	149397	54655	1242151471	200042	5726608993	328214816	345.28	0.67
42	154803	54929	1297286520	200040	5927844189	328214816	345.28	0.67
43	160305	55208	1352674029	200038	6128961202	328214816	345.28	0.67
44	182145	55492	1408372823	200040	6330195002	328214816	345.28	0.66
45	187747	55781	1464408040	200036	6531562552	328214816	345.28	0.66
46	193444	56070	1520703415	200034	6732802795	328214816	345.28	0.68
47	199237	56364	1577249260	200032	6933854192	328214816	345.28	0.68
48	205126	56663	1634048111	200029	7134708258	328214816	345.28	0.68
49	211109	56966	1691102497	200025	7335356494	328214816	345.28	0.68
50	217189	57274	1748414943	200022	7535790410	328214816	345.28	0.67
51	223363	57588	1805987972	200019	7736001527	328214816	345.28	0.67
52	229634	57906	1863824099	200016	7935981376	328214816	345.28	0.67
53	235999	58229	1921925838	200012	8135721494	328214816	345.28	0.66
54	242460	58556	1980295696	200009	8335213430	328214816	345.28	0.66
55	249017	58889	2038936178	200005	8534448738	328214816	345.28	0.65
56	255669	59227	2097849779	200002	8733418985	328214816	345.28	0.65

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 70 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2760.00	-1900.00	31000.00	0.00
2.00	43.82	46220.00	-21760.00	0.00	4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = 33116	La = 0	---
---	---	Pb = -5739	Tb = -54876	Lb = 0	---
3.00	43.82	46220.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = -30008	La = 0	---
---	---	Pb = -863	Tb = 8248	Lb = 0	---
4.00	37.02	46220.00	-21760.00	0.00	4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = 33116	La = 0	---
---	---	Pb = -5739	Tb = -54876	Lb = 0	---
5.00	37.02	46220.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = -30008	La = 0	---
---	---	Pb = -863	Tb = 8248	Lb = 0	---
6.00	30.22	37420.00	-17470.00	81000.00	4.75
---	---	---	Ft = 94998	Fp = -6804	---
---	---	Pa = 35031	Ta = -15258	La = 86975	---
---	---	Pb = 2389	Tb = -2212	Lb = -5975	---
7.00	30.22	46220.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = -30008	La = 0	---
---	---	Pb = -863	Tb = 8248	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	3562	-2148	-2519644	30858	35339916	0	345.28	0.08
3	4402	-2508	-5058816	30827	64944799	-0	345.28	0.12
4	5279	-2886	-7986399	30796	94549673	0	345.28	0.17
5	6195	-3280	-11319776	30766	124154545	0	345.28	0.20
6	7149	-3692	-15076328	30738	153759416	0	345.28	0.23
7	59461	2880	-15862305	28883	183359814	0	345.28	0.26
8	111811	1980	-5664559	27149	212959843	0	345.28	0.29
9	112879	1510	-7826949	27246	242564504	0	345.28	0.30
10	113984	1022	-10482037	27346	272169286	0	345.28	0.31
11	111827	-32090	-37822343	27550	301774471	0	345.28	0.32
12	112677	-46768	-89996876	27660	331379445	0	345.28	0.34
13	114741	-44950	-140520881	25668	362033135	0	345.28	0.36
14	168193	-45350	-191054952	26380	392703085	0	345.28	0.24
15	221714	-42108	-224290761	25081	423361828	0	345.28	0.25
16	223981	-42769	-273584776	25190	454023820	0	345.28	0.26
17	226317	-43458	-323531146	25297	484685833	0	345.28	0.27
18	225420	-82499	-404680714	25482	515348048	0	345.28	0.28
19	224591	-91753	-504763321	25659	546010261	0	345.28	0.30
20	227130	-92539	-602900709	25752	576672292	-0	345.28	0.32
21	272594	-123882	-723495187	29165	610226180	-0	345.28	0.34
22	318125	-137089	-894029628	111043	735568161	255013654	345.28	0.40
23	328488	-137860	-1039184717	111051	852253858	255013654	345.28	0.44
24	332061	-135612	-1174877505	108742	960785444	255013654	345.28	0.47
25	336480	-129256	-1302739244	107208	1066323401	255013654	345.28	0.37
26	340980	-134563	-1435156174	105494	1168893725	250919632	345.28	0.39
27	344800	-135500	-1567399345	105629	1271933233	250919632	345.28	0.40
28	348702	-136463	-1700373087	105769	1374972815	250919632	345.28	0.42
29	352686	-137452	-1834092930	105916	1478012460	250919632	345.28	0.43
30	356752	-138464	-1968574402	106068	1581052161	250919632	345.28	0.44
31	360900	-139500	-2103833034	106224	1684091910	250919632	345.28	0.45
32	365131	-140559	-2239884361	106385	1787131701	250919632	345.28	0.46
33	369444	-141640	-2376743913	106550	1890171529	250919632	345.28	0.47
34	385511	-142528	-2514426528	106553	1993210833	250919632	345.28	0.47
35	390248	-143875	-2663933313	106839	2104368055	250919632	345.28	0.48
36	395080	-144971	-2814416908	106934	2215526096	250919632	345.28	0.51
37	400008	-146249	-2965898230	107152	2326686050	250919632	345.28	0.51
38	405032	-147550	-3118394403	107373	2437846031	250919632	345.28	0.52
39	410151	-148876	-3271924933	107597	2549006033	250919632	345.28	0.52
40	415366	-150225	-3426509327	107822	2660166053	250919632	345.28	0.53
41	420677	-151598	-3582167092	108050	2771326089	250919632	345.28	0.53
42	426083	-152994	-3738917737	108280	2882486138	250919632	345.28	0.53
43	431585	-154414	-3896780770	108511	2993646198	250919632	345.28	0.53
44	437425	-155696	-4055774589	108624	3104805417	250919632	345.28	0.54
45	443277	-157254	-4216192252	108926	3216152519	250919632	345.28	0.54
46	449131	-158675	-4377761450	109126	3327497563	250919632	345.28	0.56
47	470517	-160204	-4540506682	109392	3438844360	250919632	345.28	0.56
48	476406	-161757	-4704445159	109660	3550191160	250919632	345.28	0.56
49	482389	-163333	-4869596382	109929	3661537963	250919632	345.28	0.56
50	488469	-164932	-5035979853	110199	3772884768	250919632	345.28	0.56
51	494643	-166554	-5203615072	110471	3884231574	250919632	345.28	0.56
52	500914	-168199	-5372521542	110745	3995578381	250919632	345.28	0.56
53	507279	-169868	-5542718762	111021	4106925188	250919632	345.28	0.56
54	513740	-171560	-5714226235	111298	4218271994	250919632	345.28	0.56
55	520297	-173275	-5887063463	111577	4329618800	250919632	345.28	0.56
56	526949	-175014	-6061249946	111858	4440965605	250919632	345.28	0.56

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 71 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-1900.00	31000.00	0.00
2.00	43.82	0.00	-21760.00	0.00	4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = 1554	La = 0	---
---	---	Pb = -2438	Tb = -23314	Lb = 0	---
3.00	43.82	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---
4.00	37.02	0.00	-21760.00	0.00	4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = 1554	La = 0	---
---	---	Pb = -2438	Tb = -23314	Lb = 0	---
5.00	37.02	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---
6.00	30.22	0.00	-17470.00	81000.00	4.75
---	---	---	Ft = 60780	Fp = 30020	---
---	---	Pa = 14357	Ta = -21614	La = 54963	---
---	---	Pb = -14357	Tb = 4144	Lb = 26037	---
7.00	30.22	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-2244	-2519648	30969	35339981	0	345.28	0.07
3	1642	-2604	-5058825	30937	64944925	-0	345.28	0.12
4	2519	-2982	-7986413	30906	94549844	0	345.28	0.16
5	3435	-3377	-11319794	30874	124154748	0	345.28	0.20
6	4389	-3790	-15076349	30844	153759642	0	345.28	0.23
7	8399	-1483	-17568080	30710	183364267	0	345.28	0.25
8	12448	-2916	-14796618	30585	212968869	0	345.28	0.27
9	13516	-3380	-18443023	30565	242573743	0	345.28	0.28
10	14621	-3862	-22582132	30547	272178626	0	345.28	0.29
11	14545	-32541	-47927709	30567	301783630	0	345.28	0.31
12	17477	-49937	-100553496	30501	331388363	0	345.28	0.33
13	19541	-50079	-151080818	30127	362048636	0	345.28	0.35
14	24692	-50471	-201908645	30349	392712087	0	345.28	0.23
15	29911	-49834	-244395283	30234	423373616	0	345.28	0.24
16	32178	-50418	-295226981	30201	454035340	0	345.28	0.25
17	34514	-51024	-346710887	30168	484697069	0	345.28	0.26
18	35698	-85001	-425072727	30165	515358872	0	345.28	0.27
19	36951	-97444	-525872333	30162	546020676	-0	345.28	0.29
20	39490	-98115	-624010743	30131	576682415	-0	345.28	0.31
21	51075	-64456	-699504851	32616	609172601	-0	345.28	0.32
22	62729	-120663	-796865604	84664	699668141	161153433	345.28	0.35
23	73092	-121221	-918627415	84499	784692511	161153433	345.28	0.37
24	76665	-121227	-1032564465	83935	863777227	161153433	345.28	0.40
25	73141	-162690	-1180318417	102674	955978836	161153433	345.28	0.32
26	69700	-141320	-1307213379	110731	1061062968	178994513	345.28	0.34
27	73520	-142057	-1439456910	110701	1164102723	178994513	345.28	0.35
28	77422	-142815	-1572430931	110676	1267142486	178994513	345.28	0.37
29	81406	-143594	-1706150983	110654	1370182256	178994513	345.28	0.38
30	85472	-144396	-1840632605	110636	1473222034	178994513	345.28	0.40
31	89620	-145220	-1975891337	110622	1576261820	178994513	345.28	0.41
32	93851	-146065	-2111942718	110612	1679301612	178994513	345.28	0.42
33	98164	-146933	-2248802288	110606	1782341411	178994513	345.28	0.43
34	114231	-147613	-2386484925	110445	1885380692	178994513	345.28	0.44
35	118968	-148644	-2535994052	110482	1996539725	178994513	345.28	0.45
36	123800	-149604	-2686479217	110468	2107698954	178994513	345.28	0.47
37	128728	-150636	-2837960391	110493	2218858737	178994513	345.28	0.48
38	133752	-151695	-2990456393	110523	2330018529	178994513	345.28	0.49
39	138871	-152779	-3143986734	110557	2441178329	178994513	345.28	0.49
40	144086	-153890	-3298570924	110597	2552338138	178994513	345.28	0.49
41	149397	-155026	-3454228474	110641	2663497954	178994513	345.28	0.50
42	154803	-156189	-3610978894	110689	2774657777	178994513	345.28	0.50
43	160305	-157378	-3768841694	110743	2885817606	178994513	345.28	0.50
44	182145	-158436	-3927835312	110684	2996976622	178994513	345.28	0.51
45	187747	-159722	-4088252462	110779	3108323281	178994513	345.28	0.51
46	193444	-160959	-4249822768	110838	3219669120	178994513	345.28	0.53
47	199237	-162256	-4412567724	110926	3331015656	178994513	345.28	0.53
48	205126	-163580	-4576505926	111020	3442362196	178994513	345.28	0.53
49	211109	-164929	-4741656876	111118	3553708742	178994513	345.28	0.53
50	217189	-166305	-4908040075	111221	3665055292	178994513	345.28	0.53
51	223363	-167708	-5075675025	111328	3776401847	178994513	345.28	0.53
52	229634	-169137	-5244581227	111440	3887748405	178994513	345.28	0.53
53	235999	-170592	-5414778184	111556	3999094968	178994513	345.28	0.53
54	242460	-172073	-5586285397	111677	4110441534	178994513	345.28	0.53
55	249017	-173582	-5759122368	111802	4221788103	178994513	345.28	0.53
56	255669	-175116	-5933308599	111933	4333134676	178994513	345.28	0.53

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 72 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2760.00	-1900.00	31000.00	0.00
2.00	43.82	46220.00	-21760.00	0.00	4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = 33116	La = 0	---
---	---	Pb = -5739	Tb = -54876	Lb = 0	---
3.00	43.82	46220.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = -30008	La = 0	---
---	---	Pb = -863	Tb = 8248	Lb = 0	---
4.00	37.02	37420.00	-17470.00	81000.00	4.75
---	---	---	Ft = 94998	Fp = -6804	---
---	---	Pa = 35031	Ta = -15258	La = 86975	---
---	---	Pb = 2389	Tb = -2212	Lb = -5975	---
5.00	37.02	46220.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = -30008	La = 0	---
---	---	Pb = -863	Tb = 8248	Lb = 0	---
6.00	30.22	46220.00	-21760.00	0.00	4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = 33116	La = 0	---
---	---	Pb = -5739	Tb = -54876	Lb = 0	---
7.00	30.22	46220.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = -30008	La = 0	---
---	---	Pb = -863	Tb = 8248	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	3562	-2143	-2519644	30825	35339916	0	345.28	0.08
3	4402	-2502	-5058816	30786	64944799	-0	345.28	0.12
4	5279	-2878	-7986399	30748	94549673	0	345.28	0.17
5	6195	-3271	-11319776	30709	124154545	0	345.28	0.20
6	7149	-3681	-15076328	30672	153759416	0	345.28	0.23
7	59461	2968	-15862305	28339	183359814	0	345.28	0.26
8	111811	2146	-5664559	26127	212959843	0	345.28	0.29
9	112879	1677	-7826949	26216	242564504	0	345.28	0.30
10	113984	1190	-10482037	26307	272169286	0	345.28	0.31
11	111827	-31924	-37822343	26532	301774471	0	345.28	0.32
12	112677	-46602	-89996876	26635	331379445	0	345.28	0.34
13	114741	-44674	-140520881	23964	362033135	0	345.28	0.36
14	159729	-48497	-193109701	25182	392718373	0	345.28	0.24
15	204786	-90735	-328074720	110653	510185817	246502698	345.28	0.31
16	207054	-91422	-425214238	110761	626871459	246502698	345.28	0.36
17	209389	-92151	-523006284	110893	743557481	246502698	345.28	0.41
18	212556	-83760	-613708335	107119	857239779	246502698	345.28	0.44
19	215791	-87634	-707475079	105187	967455707	242917211	345.28	0.47
20	218330	-88467	-801369725	105367	1078233028	242917211	345.28	0.50
21	272257	-75757	-887704133	104061	1189005342	242917211	345.28	0.53
22	326253	-84258	-970933012	102891	1299777665	242917211	345.28	0.55
23	336616	-85063	-1063999716	103023	1410554553	242917211	345.28	0.57
24	340189	-82787	-1151242475	100164	1513587846	242917211	345.28	0.58
25	340544	-128802	-1270909903	103691	1616646096	242917211	345.28	0.45
26	340980	-134648	-1404055223	103983	1719686190	242917211	345.28	0.46
27	344800	-135581	-1536298371	104197	1822726109	242917211	345.28	0.47
28	348702	-136540	-1669272092	104413	1925766069	242917211	345.28	0.48
29	352686	-137524	-1802991914	104631	2028806062	242917211	345.28	0.49
30	356752	-138533	-1937473368	104851	2131846084	242917211	345.28	0.50
31	360900	-139565	-2072731984	105071	2234886131	242917211	345.28	0.51
32	365131	-140621	-2208783295	105293	2337926197	242917211	345.28	0.51
33	369444	-141699	-2345642833	105516	2440966279	242917211	345.28	0.52
34	385511	-142585	-2483325444	105544	2544005664	242917211	345.28	0.52
35	390248	-143928	-2632832255	105905	2655162414	242917211	345.28	0.53
36	395080	-145022	-2783315862	106039	2766320247	242917211	345.28	0.56
37	400008	-146296	-2934797168	106316	2877480476	242917211	345.28	0.56
38	405032	-147594	-3087293327	106593	2988640710	242917211	345.28	0.56
39	410151	-148917	-3240823844	106870	3099800949	242917211	345.28	0.56
40	415366	-150263	-3395408225	107147	3210961189	242917211	345.28	0.57
41	420677	-151633	-3551065979	107425	3322121430	242917211	345.28	0.57
42	426083	-153027	-3707816613	107702	3433281672	242917211	345.28	0.57
43	431585	-154444	-3865679635	107980	3544441911	242917211	345.28	0.57
44	453425	-155725	-4024673454	108119	3655601146	242917211	345.28	0.57
45	459027	-157279	-4185091104	108474	3766948473	242917211	345.28	0.57
46	464724	-158698	-4346660310	108711	3878293382	242917211	345.28	0.59
47	470517	-160225	-4509405533	109021	3989640337	242917211	345.28	0.59
48	476406	-161776	-4673344001	109332	4100987286	242917211	345.28	0.59
49	482389	-163349	-4838495217	109643	4212334229	242917211	345.28	0.59
50	488469	-164946	-5004878680	109955	4323681166	242917211	345.28	0.59
51	494643	-166565	-5172513892	110267	4435028096	242917211	345.28	0.59
52	500914	-168209	-5341420355	110580	4546375021	242917211	345.28	0.58
53	507279	-169875	-5511617569	110893	4657721939	242917211	345.28	0.58
54	513740	-171565	-5683125036	111208	4769068850	242917211	345.28	0.58
55	520297	-173278	-5855962258	111523	4880415756	242917211	345.28	0.58
56	526949	-175015	-6030148736	111840	4991762655	242917211	345.28	0.58

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 73 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-1900.00	31000.00	0.00
2.00	43.82	0.00	-21760.00	0.00	4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = 1554	La = 0	---
---	---	Pb = -2438	Tb = -23314	Lb = 0	---
3.00	43.82	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---
4.00	37.02	0.00	-17470.00	81000.00	4.75
---	---	---	Ft = 60780	Fp = 30020	---
---	---	Pa = 14357	Ta = -21614	La = 54963	---
---	---	Pb = -14357	Tb = 4144	Lb = 26037	---
5.00	37.02	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---
6.00	30.22	0.00	-21760.00	0.00	4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = 1554	La = 0	---
---	---	Pb = -2438	Tb = -23314	Lb = 0	---
7.00	30.22	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-2244	-2519648	30962	35339981	0	345.28	0.07
3	1642	-2604	-5058825	30924	64944925	-0	345.28	0.12
4	2519	-2982	-7986413	30885	94549844	0	345.28	0.16
5	3435	-3377	-11319794	30846	124154748	0	345.28	0.20
6	4389	-3789	-15076349	30808	153759642	0	345.28	0.23
7	8399	-1483	-17568080	30641	183364267	0	345.28	0.25
8	12448	-2915	-14796618	30483	212968869	0	345.28	0.27
9	13516	-3380	-18443023	30454	242573743	0	345.28	0.28
10	14621	-3862	-22582132	30428	272178626	0	345.28	0.29
11	14545	-32540	-47927709	30448	301783630	0	345.28	0.31
12	17477	-49936	-100553496	30358	331388363	0	345.28	0.33
13	19541	-50078	-151080818	29866	362048636	0	345.28	0.35
14	30651	-48111	-200471575	29955	392721040	0	345.28	0.23
15	41829	-72632	-228447996	84551	478240620	155775016	345.28	0.26
16	44097	-73221	-302194213	84512	563265327	155775016	345.28	0.29
17	46433	-73833	-376592659	84478	648290066	155775016	345.28	0.32
18	41658	-109109	-481390456	101665	746406330	155775016	345.28	0.36
19	36951	-93155	-571155543	110891	859629960	171399977	345.28	0.39
20	39490	-93828	-665050772	110857	970407779	171399977	345.28	0.42
21	45116	-88393	-755532254	110743	1081185337	171399977	345.28	0.45
22	50810	-93532	-844835235	110642	1191962897	171399977	345.28	0.47
23	61173	-94085	-939439290	110435	1302740029	171399977	345.28	0.49
24	64746	-94199	-1028115796	109836	1405778534	171399977	345.28	0.51
25	67182	-131515	-1144299716	110423	1508821583	171399977	345.28	0.40
26	69700	-141336	-1278345191	110422	1611861428	171399977	345.28	0.41
27	73520	-142073	-1410588721	110396	1714901204	171399977	345.28	0.42
28	77422	-142830	-1543562741	110374	1817940988	171399977	345.28	0.44
29	81406	-143610	-1677282792	110357	1920980780	171399977	345.28	0.45
30	85472	-144411	-1811764413	110344	2024020578	171399977	345.28	0.46
31	89620	-145235	-1947023143	110336	2127060384	171399977	345.28	0.47
32	93851	-146080	-2083074524	110331	2230100197	171399977	345.28	0.47
33	98164	-146947	-2219934093	110331	2333140016	171399977	345.28	0.48
34	114231	-147629	-2357616737	110146	2436179160	171399977	345.28	0.49
35	118968	-148659	-2507125874	110198	2547338006	171399977	345.28	0.49
36	123800	-149619	-2657611045	110187	2658497121	171399977	345.28	0.52
37	128728	-150650	-2809092216	110224	2769656943	171399977	345.28	0.52
38	133752	-151708	-2961588217	110265	2880816772	171399977	345.28	0.53
39	138871	-152792	-3115118556	110311	2991976608	171399977	345.28	0.53
40	144086	-153902	-3269702744	110362	3103136451	171399977	345.28	0.53
41	149397	-155038	-3425360293	110419	3214296299	171399977	345.28	0.54
42	154803	-156200	-3582110711	110480	3325456154	171399977	345.28	0.54
43	160305	-157388	-3739973509	110545	3436616014	171399977	345.28	0.54
44	182145	-158447	-3898967133	110481	3547774906	171399977	345.28	0.54
45	187747	-159732	-4059384281	110594	3659121626	171399977	345.28	0.54
46	193444	-160968	-4220954591	110665	3770467380	171399977	345.28	0.56
47	199237	-162265	-4383699545	110769	3881813952	171399977	345.28	0.56
48	205126	-163587	-4547637746	110879	3993160528	171399977	345.28	0.56
49	211109	-164936	-4712788693	110993	4104507108	171399977	345.28	0.56
50	217189	-166311	-4879171891	111112	4215853690	171399977	345.28	0.56
51	223363	-167713	-5046806839	111235	4327200276	171399977	345.28	0.56
52	229634	-169141	-5215713039	111364	4438546865	171399977	345.28	0.56
53	235999	-170595	-5385909995	111497	4549893456	171399977	345.28	0.56
54	242460	-172076	-5557417206	111634	4661240050	171399977	345.28	0.56
55	249017	-173583	-5730254176	111777	4772586646	171399977	345.28	0.56
56	255669	-175117	-5904440406	111924	4883933245	171399977	345.28	0.56

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 74 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	5510.00	-3800.00	6000.00	0.00
2.00	43.82	37420.00	-17470.00	81000.00	4.75
---	---	---	Ft = 94998	Fp = -6804	---
---	---	Pa = 35031	Ta = -15258	La = 86975	---
---	---	Pb = 2389	Tb = -2212	Lb = -5975	---
3.00	43.82	46220.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = -30008	La = 0	---
---	---	Pb = -863	Tb = 8248	Lb = 0	---
4.00	37.02	37420.00	-17470.00	81000.00	4.75
---	---	---	Ft = 94998	Fp = -6804	---
---	---	Pa = 35031	Ta = -15258	La = 86975	---
---	---	Pb = 2389	Tb = -2212	Lb = -5975	---
5.00	37.02	46220.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = -30008	La = 0	---
---	---	Pb = -863	Tb = 8248	Lb = 0	---
6.00	30.22	46220.00	-21760.00	0.00	4.75
---	---	---	Ft = 61615	Fp = -55175	---
---	---	Pa = 51959	Ta = 33116	La = 0	---
---	---	Pb = -5739	Tb = -54876	Lb = 0	---
7.00	30.22	46220.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55832	Fp = -8293	---
---	---	Pa = 47083	Ta = -30008	La = 0	---
---	---	Pb = -863	Tb = 8248	Lb = 0	---

Pagina 154

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	6312	-3884	-4685630	5585	6839971	0	345.28	0.02
3	7152	-4236	-9039286	5531	12569937	-0	345.28	0.03
4	8029	-4604	-13781355	5475	18299904	0	345.28	0.04
5	8945	-4990	-18929218	5418	24029873	0	345.28	0.05
6	9899	-5393	-24500257	5359	29759844	0	345.28	0.06
7	53747	-17324	-39180569	3399	36043549	0	345.28	0.08
8	97633	-47755	-120116155	86721	129147375	238798399	345.28	0.24
9	98701	-48275	-170289007	86729	217935165	238798399	345.28	0.34
10	99806	-48830	-220954862	86771	306723565	238798399	345.28	0.42
11	101713	-41410	-265922729	83528	393148670	238798399	345.28	0.49
12	106627	-43812	-312019658	80689	475565324	235753679	345.28	0.55
13	108691	-41750	-360175756	76798	561603385	235753679	345.28	0.60
14	153679	-45649	-410406113	78423	647680185	235753679	345.28	0.41
15	198736	-87773	-543006411	163115	820534096	482256377	345.28	0.49
16	201004	-88524	-637782637	163286	992608060	482256377	345.28	0.55
17	203339	-89309	-733211312	163489	1164682549	482256377	345.28	0.60
18	206506	-80966	-821549903	159780	1333753391	482256377	345.28	0.65
19	209741	-84884	-912953133	157921	1499357957	478670891	345.28	0.68
20	212280	-85757	-1004484233	158191	1665524036	478670891	345.28	0.71
21	266207	-72976	-1088454140	156201	1831682373	478670891	345.28	0.74
22	320203	-81423	-1169318635	154419	1997840744	478670891	345.28	0.77
23	330566	-82265	-1260021710	154615	2164006140	478670891	345.28	0.79
24	334139	-79901	-1345065293	150357	2318556119	478670891	345.28	0.80
25	334494	-126088	-1462536278	155620	2473143641	478670891	345.28	0.61
26	334930	-131964	-1593483020	156058	2627703825	478670891	345.28	0.63
27	338750	-132920	-1723527543	156378	2782263733	478670891	345.28	0.64
28	342652	-133901	-1854302623	156701	2936823699	478670891	345.28	0.65
29	346636	-134905	-1985823791	157026	3091383713	478670891	345.28	0.66
30	350702	-135931	-2118106578	157353	3245943766	478670891	345.28	0.66
31	354850	-136980	-2251166515	157682	3400503853	478670891	345.28	0.67
32	359081	-138051	-2385019136	158013	3555063967	478670891	345.28	0.67
33	363394	-139143	-2519679977	158344	3709624104	478670891	345.28	0.68
34	379461	-140034	-2655163832	158381	3864183180	478670891	345.28	0.68
35	384198	-141393	-2802298496	158919	4030918332	478670891	345.28	0.69
36	389030	-142496	-2950410023	159119	4197655105	478670891	345.28	0.72
37	393958	-143783	-3099519357	159531	4364395459	478670891	345.28	0.72
38	398982	-145093	-3249643535	159944	4531135819	478670891	345.28	0.72
39	404101	-146426	-3400802063	160356	4697876184	478670891	345.28	0.72
40	409316	-147782	-3553014450	160769	4864616551	478670891	345.28	0.72
41	414627	-149161	-3706300202	161182	5031356917	478670891	345.28	0.72
42	420033	-150563	-3860678829	161595	5198097283	478670891	345.28	0.72
43	425535	-151988	-4016169839	162008	5364837645	478670891	345.28	0.72
44	447375	-153272	-4172791599	162212	5531576486	478670891	345.28	0.72
45	452977	-154834	-4330833257	162741	5698597476	478670891	345.28	0.72
46	458674	-156259	-4490026411	163094	5865614855	478670891	345.28	0.74
47	464467	-157793	-4650395627	163557	6032635289	478670891	345.28	0.74
48	470356	-159349	-4811958086	164021	6199655713	478670891	345.28	0.74
49	476339	-160928	-4974733288	164485	6366676127	478670891	345.28	0.73
50	482419	-162530	-5138740735	164949	6533696532	478670891	345.28	0.73
51	488593	-164154	-5303999928	165415	6700716928	478670891	345.28	0.73
52	494864	-165802	-5470530369	165881	6867737313	478670891	345.28	0.73
53	501229	-167472	-5638351558	166349	7034757689	478670891	345.28	0.72
54	507690	-169166	-5807482999	166818	7201778055	478670891	345.28	0.72
55	514247	-170883	-5977944193	167288	7368798412	478670891	345.28	0.72
56	520899	-172624	-6149754640	167761	7535818759	478670891	345.28	0.71

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 75 " NDT - MSA - ZONA A - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-3800.00	6000.00	0.00
2.00	43.82	0.00	-17470.00	81000.00	4.75
---	---	---	Ft = 60780	Fp = 30020	---
---	---	Pa = 14357	Ta = -21614	La = 54963	---
---	---	Pb = -14357	Tb = 4144	Lb = 26037	---
3.00	43.82	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---
4.00	37.02	0.00	-17470.00	81000.00	4.75
---	---	---	Ft = 60780	Fp = 30020	---
---	---	Pa = 14357	Ta = -21614	La = 54963	---
---	---	Pb = -14357	Tb = 4144	Lb = 26037	---
5.00	37.02	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---
6.00	30.22	0.00	-21760.00	0.00	4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = 1554	La = 0	---
---	---	Pb = -2438	Tb = -23314	Lb = 0	---
7.00	30.22	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-4142	-4685647	5952	6839996	0	345.28	0.02
3	1642	-4501	-9039321	5903	12569985	-0	345.28	0.03
4	2519	-4877	-13781404	5852	18299970	0	345.28	0.04
5	3435	-5271	-18929278	5799	24029951	0	345.28	0.05
6	4389	-5681	-24500327	5744	29759931	0	345.28	0.06
7	14359	9427	-20665626	5712	35840144	0	345.28	0.06
8	24367	-27551	-14309036	59559	96786662	150906358	345.28	0.13
9	25434	-28015	-41894589	59513	155005671	150906358	345.28	0.19
10	26540	-28500	-69972878	59471	213224750	150906358	345.28	0.24
11	20505	-59521	-122398250	74060	281745186	150906358	345.28	0.31
12	17477	-47525	-166632001	86055	367734106	164174748	345.28	0.38
13	19541	-47657	-214795151	85317	453782914	164174748	345.28	0.44
14	30651	-45696	-261822254	85435	539844409	164174748	345.28	0.31
15	41829	-70214	-287434688	139854	680752585	319949764	345.28	0.36
16	44097	-78086	-358817007	139793	821166097	319949764	345.28	0.41
17	46433	-71420	-430851552	139740	961579664	319949764	345.28	0.45
18	41658	-106702	-533285490	157023	1115085058	319949764	345.28	0.50
19	36951	-90752	-620686707	166340	1283697871	335574725	345.28	0.54
20	39490	-91427	-712218020	166288	1449864599	335574725	345.28	0.58
21	45116	-85993	-800335575	166118	1616030937	335574725	345.28	0.61
22	50810	-91132	-887274631	165967	1782197279	335574725	345.28	0.64
23	61173	-91686	-979514749	165657	1948362979	335574725	345.28	0.67
24	64746	-91799	-1065992437	164759	2102920742	335574725	345.28	0.69
25	67182	-129120	-1179977658	165638	2257485301	335574725	345.28	0.53
26	69700	-138942	-1311824343	165636	2412045068	335574725	345.28	0.55
27	73520	-139679	-1441869080	165597	2566604732	335574725	345.28	0.56
28	77422	-140438	-1572644308	165565	2721164408	335574725	345.28	0.57
29	81406	-141218	-1704165566	165539	2875724095	335574725	345.28	0.58
30	85472	-142021	-1836448393	165519	3030283793	335574725	345.28	0.59
31	89620	-142845	-1969508331	165506	3184843501	335574725	345.28	0.60
32	93851	-143691	-2103360917	165500	3339403220	335574725	345.28	0.61
33	98164	-144559	-2238021693	165499	3493962948	335574725	345.28	0.62
34	114231	-145242	-2373505538	165221	3648521666	335574725	345.28	0.62
35	118968	-146272	-2520642602	165300	3815259936	335574725	345.28	0.63
36	123800	-147233	-2668755703	165284	3981998611	335574725	345.28	0.66
37	128728	-148265	-2817864808	165338	4148738343	335574725	345.28	0.67
38	133752	-149323	-2967988741	165400	4315478086	335574725	345.28	0.67
39	138871	-150408	-3119147013	165469	4482217840	335574725	345.28	0.67
40	144086	-151518	-3271359134	165546	4648957603	335574725	345.28	0.67
41	149397	-152654	-3424644615	165630	4815697376	335574725	345.28	0.67
42	154803	-153816	-3579022965	165722	4982437158	335574725	345.28	0.67
43	160305	-155005	-3734513695	165820	5149176947	335574725	345.28	0.67
44	182145	-156064	-3891135253	165723	5315915287	335574725	345.28	0.68
45	187747	-157349	-4049176348	165893	5482935367	335574725	345.28	0.67
46	193444	-158586	-4208370609	165999	5649953998	335574725	345.28	0.70
47	199237	-159882	-4368739512	166156	5816973856	335574725	345.28	0.70
48	205126	-161204	-4530301660	166320	5983993720	335574725	345.28	0.70
49	211109	-162552	-4693076556	166491	6151013588	335574725	345.28	0.69
50	217189	-163927	-4857083700	166669	6318033462	335574725	345.28	0.69
51	223363	-165328	-5022342595	166854	6485053340	335574725	345.28	0.69
52	229634	-166755	-5188872743	167046	6652073223	335574725	345.28	0.69
53	235999	-168208	-5356693645	167246	6819093110	335574725	345.28	0.69
54	242460	-169688	-5525824804	167452	6986113000	335574725	345.28	0.68
55	249017	-171194	-5696285720	167665	7153132894	335574725	345.28	0.68
56	255669	-172727	-5868095896	167886	7320152792	335574725	345.28	0.68

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 76 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2720.00	-1900.00	30200.00	0.00
2.00	43.82	45620.00	-21760.00	0.00	4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = 32706	La = 0	---
---	---	Pb = -5696	Tb = -54466	Lb = 0	---
3.00	43.82	45620.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = -29598	La = 0	---
---	---	Pb = -820	Tb = 7838	Lb = 0	---
4.00	37.02	45620.00	-21760.00	0.00	4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = 32706	La = 0	---
---	---	Pb = -5696	Tb = -54466	Lb = 0	---
5.00	37.02	45620.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = -29598	La = 0	---
---	---	Pb = -820	Tb = 7838	Lb = 0	---
6.00	30.22	36970.00	-17470.00	78000.00	4.75
---	---	---	Ft = 92760	Fp = -7888	---
---	---	Pa = 34200	Ta = -14907	La = 84926	---
---	---	Pb = 2770	Tb = -2563	Lb = -6926	---
7.00	30.22	45620.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = -29598	La = 0	---
---	---	Pb = -820	Tb = 7838	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	3522	-2150	-2519644	30064	34427919	0	345.28	0.07
3	4362	-2510	-5058816	30033	63268806	-0	345.28	0.12
4	5239	-2887	-7986399	30003	92109684	0	345.28	0.16
5	6155	-3282	-11319776	29974	120950559	0	345.28	0.19
6	7109	-3694	-15076328	29946	149791435	0	345.28	0.22
7	58778	2855	-15862310	28167	178628005	0	345.28	0.25
8	110485	1933	-5664562	26502	207464222	0	345.28	0.28
9	111553	1463	-7826952	26595	236304895	0	345.28	0.29
10	112658	975	-10482041	26691	265145684	0	345.28	0.31
11	110544	-32135	-37822354	26887	293986860	0	345.28	0.32
12	111437	-46812	-89996902	26991	322827831	0	345.28	0.33
13	113501	-45021	-140520950	25077	352690541	0	345.28	0.35
14	166310	-45415	-191055005	25763	382568927	0	345.28	0.24
15	219188	-42193	-224290839	24518	412436513	0	345.28	0.25
16	221456	-42853	-273584863	24623	442307224	0	345.28	0.26
17	223791	-43541	-323531241	24725	472177955	0	345.28	0.26
18	222937	-82580	-404680818	24902	502048881	0	345.28	0.28
19	222151	-91832	-504763439	25072	531919806	-0	345.28	0.30
20	224690	-92615	-602900840	25161	561790555	-0	345.28	0.31
21	269417	-124402	-723785554	28514	594485090	-0	345.28	0.34
22	314212	-136444	-893829048	108483	716805818	249007223	345.28	0.39
23	324575	-137212	-1038231255	108489	830674107	249007223	345.28	0.43
24	328148	-135000	-1173223807	106276	936585214	249007223	345.28	0.46
25	332778	-128473	-1300197344	103969	1039022927	249007223	345.28	0.36
26	337490	-134655	-1432815693	101956	1138022577	244261250	345.28	0.38
27	341310	-135590	-1565058867	102084	1237566111	244261250	345.28	0.40
28	345212	-136550	-1698032611	102220	1337109716	244261250	345.28	0.41
29	349196	-137535	-1831752455	102360	1436653380	244261250	345.28	0.42
30	353262	-138545	-1966233927	102506	1536197098	244261250	345.28	0.43
31	357410	-139578	-2101492560	102656	1635740860	244261250	345.28	0.44
32	361641	-140634	-2237543886	102810	1735284663	244261250	345.28	0.45
33	365954	-141712	-2374403438	102968	1834828500	244261250	345.28	0.46
34	382021	-142597	-2512086053	102969	1934371828	244261250	345.28	0.47
35	386758	-143940	-2661592869	103244	2041757659	244261250	345.28	0.48
36	391590	-145034	-2812076485	103335	2149144277	244261250	345.28	0.50
37	396518	-146308	-2963557804	103545	2256532736	244261250	345.28	0.51
38	401542	-147606	-3116053973	103756	2363921219	244261250	345.28	0.51
39	406661	-148928	-3269584500	103971	2471309722	244261250	345.28	0.52
40	411876	-150274	-3424168891	104187	2578698242	244261250	345.28	0.52
41	417187	-151644	-3579826652	104406	2686086778	244261250	345.28	0.52
42	422593	-153037	-3736577294	104626	2793475325	244261250	345.28	0.53
43	428095	-154454	-3894440323	104848	2900863883	244261250	345.28	0.53
44	449935	-155733	-4053434139	104956	3008251627	244261250	345.28	0.53
45	455537	-157287	-4213851795	105246	3115820878	244261250	345.28	0.53
46	461234	-158705	-4375421008	105438	3223388152	244261250	345.28	0.55
47	467027	-160232	-4538166235	105693	3330957110	244261250	345.28	0.55
48	472916	-161782	-4702104708	105950	3438526071	244261250	345.28	0.55
49	478899	-163354	-4867255927	106209	3546095036	244261250	345.28	0.55
50	484979	-164950	-5033639394	106469	3653664001	244261250	345.28	0.55
51	491153	-166569	-5201274610	106730	3761232968	244261250	345.28	0.55
52	497424	-168212	-5370181075	106993	3868801936	244261250	345.28	0.55
53	503789	-169877	-5540378292	107258	3976370904	244261250	345.28	0.55
54	510250	-171567	-5711885761	107525	4083939871	244261250	345.28	0.55
55	516807	-173279	-5884722985	107793	4191508837	244261250	345.28	0.55
56	523459	-175016	-6058909465	108063	4299077803	244261250	345.28	0.55

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 77 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-1900.00	30200.00	0.00
2.00	43.82	0.00	-21760.00	0.00	4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = 1554	La = 0	---
---	---	Pb = -2438	Tb = -23314	Lb = 0	---
3.00	43.82	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---
4.00	37.02	0.00	-21760.00	0.00	4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = 1554	La = 0	---
---	---	Pb = -2438	Tb = -23314	Lb = 0	---
5.00	37.02	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---
6.00	30.22	0.00	-17470.00	78000.00	4.75
---	---	---	Ft = 58996	Fp = 28530	---
---	---	Pa = 13736	Ta = -21272	La = 53285	---
---	---	Pb = -13736	Tb = 3802	Lb = 24715	---
7.00	30.22	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---

Pagina 160

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-2244	-2519648	30170	34427982	0	345.28	0.07
3	1642	-2604	-5058825	30139	63268927	-0	345.28	0.12
4	2519	-2982	-7986413	30108	92109848	0	345.28	0.16
5	3435	-3377	-11319794	30078	120950754	0	345.28	0.19
6	4389	-3790	-15076349	30048	149791651	0	345.28	0.22
7	8399	-1483	-17568080	29919	178632286	0	345.28	0.24
8	12448	-2916	-14796618	29797	207472898	0	345.28	0.26
9	13516	-3380	-18443023	29778	236313776	0	345.28	0.27
10	14621	-3862	-22582132	29761	265154661	0	345.28	0.29
11	14545	-32540	-47927709	29780	293995666	0	345.28	0.30
12	17477	-49937	-100553496	29716	322836405	0	345.28	0.32
13	19541	-50079	-151080818	29353	352705446	0	345.28	0.34
14	24692	-50471	-201908645	29568	382577582	0	345.28	0.22
15	29911	-49834	-244395283	29457	412447846	0	345.28	0.23
16	32178	-50418	-295226981	29424	442318299	0	345.28	0.24
17	34514	-51024	-346710887	29393	472188758	0	345.28	0.25
18	35698	-85001	-425072727	29390	502059289	0	345.28	0.27
19	36951	-97444	-525872333	29387	531929820	-0	345.28	0.29
20	39490	-98115	-624010743	29357	561800288	0	345.28	0.30
21	50765	-65967	-700534647	31773	593443411	-0	345.28	0.31
22	62108	-120337	-798637885	82239	681321502	156234855	345.28	0.34
23	72471	-120895	-920061900	82079	763895395	156234855	345.28	0.37
24	76044	-120906	-1033684755	81536	840700824	156234855	345.28	0.39
25	72831	-161399	-1180248249	99327	929956965	156234855	345.28	0.32
26	69700	-141320	-1307430030	106970	1031441262	173169754	345.28	0.33
27	73520	-142056	-1439673560	106942	1130985025	173169754	345.28	0.35
28	77422	-142814	-1572647582	106917	1230528797	173169754	345.28	0.37
29	81406	-143594	-1706367634	106896	1330072575	173169754	345.28	0.38
30	85472	-144396	-1840849255	106879	1429616361	173169754	345.28	0.39
31	89620	-145220	-1976107987	106865	1529160154	173169754	345.28	0.40
32	93851	-146065	-2112159368	106856	1628703953	173169754	345.28	0.41
33	98164	-146933	-2249018939	106850	1728247759	173169754	345.28	0.42
34	114231	-147613	-2386701576	106694	1827791063	173169754	345.28	0.43
35	118968	-148644	-2536210703	106731	1935178627	173169754	345.28	0.44
36	123800	-149604	-2686695868	106716	2042566381	173169754	345.28	0.47
37	128728	-150636	-2838177041	106741	2149954672	173169754	345.28	0.47
38	133752	-151695	-2990673043	106770	2257342971	173169754	345.28	0.48
39	138871	-152779	-3144203384	106803	2364731279	173169754	345.28	0.48
40	144086	-153889	-3298787575	106841	2472119594	173169754	345.28	0.49
41	149397	-155026	-3454445125	106884	2579507916	173169754	345.28	0.49
42	154803	-156189	-3611195545	106931	2686896246	173169754	345.28	0.50
43	160305	-157378	-3769058345	106983	2794284581	173169754	345.28	0.50
44	182145	-158436	-3928051962	106926	2901672129	173169754	345.28	0.50
45	187747	-159722	-4088469113	107018	3009240956	173169754	345.28	0.50
46	193444	-160959	-4250039418	107075	3116808989	173169754	345.28	0.52
47	199237	-162256	-4412784375	107161	3224377696	173169754	345.28	0.53
48	205126	-163580	-4576722577	107252	3331946408	173169754	345.28	0.53
49	211109	-164929	-4741873527	107346	3439515124	173169754	345.28	0.53
50	217189	-166305	-4908256726	107446	3547083846	173169754	345.28	0.53
51	223363	-167708	-5075891675	107549	3654652571	173169754	345.28	0.53
52	229634	-169137	-5244797878	107658	3762221300	173169754	345.28	0.53
53	235999	-170592	-5414994834	107770	3869790033	173169754	345.28	0.53
54	242460	-172073	-5586502047	107887	3977358770	173169754	345.28	0.53
55	249017	-173582	-5759339019	108009	4084927510	173169754	345.28	0.53
56	255669	-175116	-5933525250	108135	4192496252	173169754	345.28	0.53

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 78 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	2720.00	-1900.00	30200.00	0.00
2.00	43.82	45620.00	-21760.00	0.00	4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = 32706	La = 0	---
---	---	Pb = -5696	Tb = -54466	Lb = 0	---
3.00	43.82	45620.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = -29598	La = 0	---
---	---	Pb = -820	Tb = 7838	Lb = 0	---
4.00	37.02	36970.00	-17470.00	78000.00	4.75
---	---	---	Ft = 92760	Fp = -7888	---
---	---	Pa = 34200	Ta = -14907	La = 84926	---
---	---	Pb = 2770	Tb = -2563	Lb = -6926	---
5.00	37.02	45620.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = -29598	La = 0	---
---	---	Pb = -820	Tb = 7838	Lb = 0	---
6.00	30.22	45620.00	-21760.00	0.00	4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = 32706	La = 0	---
---	---	Pb = -5696	Tb = -54466	Lb = 0	---
7.00	30.22	45620.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = -29598	La = 0	---
---	---	Pb = -820	Tb = 7838	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	3522	-2144	-2519644	30032	34427919	0	345.28	0.07
3	4362	-2503	-5058816	29994	63268806	-0	345.28	0.12
4	5239	-2879	-7986399	29957	92109684	0	345.28	0.16
5	6155	-3273	-11319776	29920	120950559	0	345.28	0.19
6	7109	-3683	-15076328	29883	149791435	0	345.28	0.22
7	58778	2942	-15862310	27646	178628005	0	345.28	0.25
8	110485	2095	-5664562	25526	207464222	0	345.28	0.28
9	111553	1626	-7826952	25611	236304895	0	345.28	0.29
10	112658	1140	-10482041	25699	265145684	0	345.28	0.31
11	110544	-31974	-37822354	25914	293986860	0	345.28	0.32
12	111437	-46649	-89996902	26011	322827831	0	345.28	0.33
13	113501	-44751	-140520950	23448	352690541	0	345.28	0.35
14	157753	-48604	-193132356	24627	382583860	0	345.28	0.24
15	202072	-90072	-327931307	108119	497215533	240696728	345.28	0.31
16	204340	-90759	-424317948	108222	611083776	240696728	345.28	0.36
17	206676	-91485	-521357109	108348	724952386	240696728	345.28	0.40
18	210054	-83042	-611197618	103941	835338876	240696728	345.28	0.43
19	213501	-87711	-705155327	101666	941706943	236540273	345.28	0.46
20	216040	-88541	-799049976	101839	1048725764	236540273	345.28	0.49
21	269325	-75848	-885384445	100590	1155739777	236540273	345.28	0.52
22	322677	-84366	-968613381	99471	1262753802	236540273	345.28	0.54
23	333040	-85166	-1061680086	99596	1369772200	236540273	345.28	0.55
24	336613	-82923	-1148922906	96855	1469309766	236540273	345.28	0.57
25	337011	-128897	-1268590158	100236	1568871302	236540273	345.28	0.44
26	337490	-134740	-1401735480	100515	1668415396	236540273	345.28	0.45
27	341310	-135670	-1533978631	100720	1767959321	236540273	345.28	0.46
28	345212	-136626	-1666952355	100927	1867503285	236540273	345.28	0.47
29	349196	-137607	-1800672179	101135	1967047280	236540273	345.28	0.48
30	353262	-138613	-1935153633	101345	2066591303	236540273	345.28	0.49
31	357410	-139642	-2070412250	101557	2166135348	236540273	345.28	0.50
32	361641	-140695	-2206463560	101769	2265679413	236540273	345.28	0.50
33	365954	-141770	-2343323098	101982	2365223492	236540273	345.28	0.51
34	382021	-142654	-2481005708	102007	2464766896	236540273	345.28	0.51
35	386758	-143992	-2630512551	102353	2572152275	236540273	345.28	0.52
36	391590	-145084	-2780996178	102481	2679538695	236540273	345.28	0.55
37	396518	-146355	-2932477482	102746	2786927414	236540273	345.28	0.55
38	401542	-147650	-3084973637	103012	2894316139	236540273	345.28	0.55
39	406661	-148969	-3238504151	103277	3001704868	236540273	345.28	0.56
40	411876	-150312	-3393088529	103543	3109093598	236540273	345.28	0.56
41	417187	-151679	-3548746280	103808	3216482329	236540273	345.28	0.56
42	422593	-153070	-3705496910	104074	3323871060	236540273	345.28	0.56
43	428095	-154484	-3863359929	104341	3431259789	236540273	345.28	0.56
44	449935	-155762	-4022353745	104473	3538647545	236540273	345.28	0.56
45	455537	-157312	-4182771388	104814	3646217012	236540273	345.28	0.56
46	461234	-158729	-4344340608	105041	3753784156	236540273	345.28	0.58
47	467027	-160253	-4507085827	105339	3861353265	236540273	345.28	0.58
48	472916	-161800	-4671024291	105637	3968922368	236540273	345.28	0.58
49	478899	-163370	-4836175503	105936	4076491466	236540273	345.28	0.58
50	484979	-164964	-5002558962	106235	4184060558	236540273	345.28	0.58
51	491153	-166581	-5170194171	106535	4291629643	236540273	345.28	0.58
52	497424	-168221	-5339100630	106835	4399198723	236540273	345.28	0.58
53	503789	-169885	-5509297840	107137	4506767797	236540273	345.28	0.57
54	510250	-171572	-5680805304	107439	4614336864	236540273	345.28	0.57
55	516807	-173282	-5853642522	107742	4721905926	236540273	345.28	0.57
56	523459	-175017	-6027828997	108046	4829474981	236540273	345.28	0.57

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 79 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-1900.00	30200.00	0.00
2.00	43.82	0.00	-21760.00	0.00	4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = 1554	La = 0	---
---	---	Pb = -2438	Tb = -23314	Lb = 0	---
3.00	43.82	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---
4.00	37.02	0.00	-17470.00	78000.00	4.75
---	---	---	Ft = 58996	Fp = 28530	---
---	---	Pa = 13736	Ta = -21272	La = 53285	---
---	---	Pb = -13736	Tb = 3802	Lb = 24715	---
5.00	37.02	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---
6.00	30.22	0.00	-21760.00	0.00	4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = 1554	La = 0	---
---	---	Pb = -2438	Tb = -23314	Lb = 0	---
7.00	30.22	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---

Pagina 164

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-2244	-2519648	30163	34427982	0	345.28	0.07
3	1642	-2604	-5058825	30126	63268927	-0	345.28	0.12
4	2519	-2982	-7986413	30088	92109848	0	345.28	0.16
5	3435	-3377	-11319794	30050	120950754	0	345.28	0.19
6	4389	-3789	-15076349	30013	149791651	0	345.28	0.22
7	8399	-1483	-17568080	29852	178632286	0	345.28	0.24
8	12448	-2915	-14796618	29698	207472898	0	345.28	0.26
9	13516	-3380	-18443023	29671	236313776	0	345.28	0.27
10	14621	-3862	-22582132	29645	265154661	0	345.28	0.29
11	14545	-32540	-47927709	29665	293995666	0	345.28	0.30
12	17477	-49936	-100553496	29578	322836405	0	345.28	0.32
13	19541	-50078	-151080818	29101	352705446	0	345.28	0.34
14	30341	-48233	-200546528	29198	382586278	0	345.28	0.22
15	41209	-72310	-230141057	82138	465640285	151020593	345.28	0.25
16	43477	-72898	-303549480	82100	548214508	151020593	345.28	0.29
17	45812	-73510	-377610131	82066	630788761	151020593	345.28	0.32
18	41348	-108009	-481339932	98375	725789586	151020593	345.28	0.35
19	36951	-93155	-571356383	107126	835130445	165851933	345.28	0.39
20	39490	-93828	-665251612	107093	942149731	165851933	345.28	0.42
21	45116	-88393	-755733094	106984	1049168764	165851933	345.28	0.44
22	50810	-93531	-845036075	106886	1156187799	165851933	345.28	0.46
23	61173	-94085	-939640129	106686	1263206419	165851933	345.28	0.48
24	64746	-94199	-1028316635	106105	1362748972	165851933	345.28	0.50
25	67182	-131515	-1144500556	106674	1462295928	165851933	345.28	0.39
26	69700	-141336	-1278546031	106673	1561839779	165851933	345.28	0.40
27	73520	-142072	-1410789561	106648	1661383563	165851933	345.28	0.42
28	77422	-142830	-1543763581	106627	1760927354	165851933	345.28	0.43
29	81406	-143610	-1677483632	106610	1860471153	165851933	345.28	0.44
30	85472	-144411	-1811965253	106598	1960014959	165851933	345.28	0.45
31	89620	-145235	-1947223984	106590	2059558772	165851933	345.28	0.46
32	93851	-146080	-2083275364	106585	2159102591	165851933	345.28	0.47
33	98164	-146947	-2220134933	106585	2258646416	165851933	345.28	0.47
34	114231	-147629	-2357817577	106406	2358189588	165851933	345.28	0.48
35	118968	-148659	-2507326714	106457	2465576971	165851933	345.28	0.49
36	123800	-149619	-2657811885	106446	2572964616	165851933	345.28	0.51
37	128728	-150650	-2809293056	106482	2680352944	165851933	345.28	0.52
38	133752	-151708	-2961789057	106522	2787741279	165851933	345.28	0.52
39	138871	-152792	-3115319396	106567	2895129621	165851933	345.28	0.52
40	144086	-153902	-3269903584	106616	3002517969	165851933	345.28	0.53
41	149397	-155038	-3425561133	106670	3109906323	165851933	345.28	0.53
42	154803	-156200	-3582311551	106729	3217294683	165851933	345.28	0.53
43	160305	-157388	-3740174349	106793	3324683048	165851933	345.28	0.53
44	182145	-158446	-3899167973	106730	3432070477	165851933	345.28	0.53
45	187747	-159732	-4059585121	106840	3539639362	165851933	345.28	0.53
46	193444	-160968	-4221155431	106908	3647207313	165851933	345.28	0.55
47	199237	-162265	-4383900385	107010	3754776055	165851933	345.28	0.56
48	205126	-163587	-4547838586	107116	3862344802	165851933	345.28	0.56
49	211109	-164936	-4712989534	107226	3969913551	165851933	345.28	0.55
50	217189	-166311	-4879372731	107341	4077482303	165851933	345.28	0.55
51	223363	-167713	-5047007679	107461	4185051059	165851933	345.28	0.55
52	229634	-169140	-5215913880	107585	4292619817	165851933	345.28	0.55
53	235999	-170595	-5386110835	107713	4400188578	165851933	345.28	0.55
54	242460	-172076	-5557618046	107846	4507757341	165851933	345.28	0.55
55	249017	-173583	-5730455016	107984	4615326107	165851933	345.28	0.55
56	255669	-175117	-5904641246	108126	4722894874	165851933	345.28	0.55

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 80 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	5430.00	-3800.00	6000.00	0.00
2.00	43.82	36970.00	-17470.00	78000.00	4.75
---	---	---	Ft = 92760	Fp = -7888	---
---	---	Pa = 34200	Ta = -14907	La = 84926	---
---	---	Pb = 2770	Tb = -2563	Lb = -6926	---
3.00	43.82	45620.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = -29598	La = 0	---
---	---	Pb = -820	Tb = 7838	Lb = 0	---
4.00	37.02	36970.00	-17470.00	78000.00	4.75
---	---	---	Ft = 92760	Fp = -7888	---
---	---	Pa = 34200	Ta = -14907	La = 84926	---
---	---	Pb = 2770	Tb = -2563	Lb = -6926	---
5.00	37.02	45620.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = -29598	La = 0	---
---	---	Pb = -820	Tb = 7838	Lb = 0	---
6.00	30.22	45620.00	-21760.00	0.00	4.75
---	---	---	Ft = 60852	Fp = -54763	---
---	---	Pa = 51316	Ta = 32706	La = 0	---
---	---	Pb = -5696	Tb = -54466	Lb = 0	---
7.00	30.22	45620.00	-21760.00	0.00	-4.75
---	---	---	Ft = 55070	Fp = -7881	---
---	---	Pa = 46440	Ta = -29598	La = 0	---
---	---	Pb = -820	Tb = 7838	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	6232	-3889	-4685631	5602	6839972	0	345.28	0.02
3	7072	-4240	-9039287	5550	12569937	-0	345.28	0.03
4	7949	-4609	-13781355	5496	18299905	0	345.28	0.04
5	8865	-4995	-18929218	5441	24029874	0	345.28	0.05
6	9819	-5397	-24500258	5384	29759845	0	345.28	0.06
7	52930	-17562	-39306477	3535	36030504	0	345.28	0.08
8	96080	-47075	-119929698	84962	127076414	233173891	345.28	0.24
9	97147	-47594	-169375630	84969	213907958	233173891	345.28	0.33
10	98253	-48147	-219314554	85009	300740088	233173891	345.28	0.42
11	100371	-40645	-263459497	81233	384832477	233173891	345.28	0.48
12	105497	-43869	-309727740	77953	464278079	229644317	345.28	0.54
13	107561	-41839	-357883964	74225	547349339	229644317	345.28	0.59
14	151813	-45768	-408136803	75799	630458178	229644317	345.28	0.40
15	196132	-87126	-540571059	158553	798300448	470341045	345.28	0.48
16	198400	-87874	-634594392	158717	965381060	470341045	345.28	0.54
17	200736	-88655	-729270168	158910	1132462173	470341045	345.28	0.59
18	204114	-80258	-816747201	154562	1296061228	470341045	345.28	0.63
19	207561	-84970	-908341382	152352	1455641946	466184590	345.28	0.67
20	210100	-85840	-999872477	152611	1615873546	466184590	345.28	0.70
21	263385	-73077	-1083842460	150711	1776097728	466184590	345.28	0.73
22	316737	-81543	-1164707023	149011	1936321948	466184590	345.28	0.75
23	327100	-82380	-1255410093	149196	2096552879	466184590	345.28	0.77
24	330673	-80050	-1340453744	145123	2245583284	466184590	345.28	0.78
25	331071	-126192	-1457924502	150156	2394649672	466184590	345.28	0.60
26	331550	-132064	-1588871240	150575	2543689851	466184590	345.28	0.61
27	335370	-133016	-1718915763	150880	2692729767	466184590	345.28	0.62
28	339272	-133993	-1849690842	151188	2841769738	466184590	345.28	0.63
29	343256	-134994	-1981212009	151499	2990809753	466184590	345.28	0.64
30	347322	-136017	-2113494793	151811	3139849805	466184590	345.28	0.65
31	351470	-137062	-2246554728	152126	3288889890	466184590	345.28	0.65
32	355701	-138130	-2380407347	152441	3437930000	466184590	345.28	0.66
33	360014	-139219	-2515068185	152758	3586970131	466184590	345.28	0.66
34	376081	-140107	-2650552038	152790	3736009236	466184590	345.28	0.67
35	380818	-141461	-2797686736	153304	3896789591	466184590	345.28	0.67
36	385650	-142562	-2945798284	153495	4057571499	466184590	345.28	0.70
37	390578	-143845	-3094907613	153889	4218356837	466184590	345.28	0.71
38	395602	-145151	-3245031786	154284	4379142181	466184590	345.28	0.71
39	400721	-146481	-3396190309	154678	4539927530	466184590	345.28	0.71
40	405936	-147834	-3548402690	155073	4700712880	466184590	345.28	0.71
41	411247	-149209	-3701688438	155468	4861498230	466184590	345.28	0.71
42	416653	-150608	-3856067060	155863	5022283578	466184590	345.28	0.71
43	422155	-152030	-4011558065	156259	5183068924	466184590	345.28	0.71
44	443995	-153310	-4168179822	156452	5343852800	466184590	345.28	0.70
45	449597	-154868	-4326221471	156959	5504908748	466184590	345.28	0.70
46	455294	-156291	-4485414640	157297	5665961233	466184590	345.28	0.73
47	461087	-157821	-4645783851	157741	5827016647	466184590	345.28	0.72
48	466976	-159374	-4807346305	158185	5988072052	466184590	345.28	0.72
49	472959	-160950	-4970121502	158629	6149127447	466184590	345.28	0.72
50	479039	-162549	-5134128944	159074	6310182834	466184590	345.28	0.72
51	485213	-164170	-5299388133	159521	6471238211	466184590	345.28	0.71
52	491484	-165815	-5465918569	159968	6632293579	466184590	345.28	0.71
53	497849	-167483	-5633739754	160416	6793348937	466184590	345.28	0.71
54	504310	-169173	-5802871191	160866	6954404286	466184590	345.28	0.70
55	510867	-170888	-5973332380	161317	7115459626	466184590	345.28	0.70
56	517519	-172625	-6145142823	161771	7276514957	466184590	345.28	0.70

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 81 " NDT - MSA - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -706.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-3800.00	6000.00	0.00
2.00	43.82	0.00	-17470.00	78000.00	4.75
---	---	---	Ft = 58996	Fp = 28530	---
---	---	Pa = 13736	Ta = -21272	La = 53285	---
---	---	Pb = -13736	Tb = 3802	Lb = 24715	---
3.00	43.82	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---
4.00	37.02	0.00	-17470.00	78000.00	4.75
---	---	---	Ft = 58996	Fp = 28530	---
---	---	Pa = 13736	Ta = -21272	La = 53285	---
---	---	Pb = -13736	Tb = 3802	Lb = 24715	---
5.00	37.02	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---
6.00	30.22	0.00	-21760.00	0.00	4.75
---	---	---	Ft = 2891	Fp = -23441	---
---	---	Pa = 2438	Ta = 1554	La = 0	---
---	---	Pb = -2438	Tb = -23314	Lb = 0	---
7.00	30.22	0.00	-21760.00	0.00	-4.75
---	---	---	Ft = -2891	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -21760	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	802	-4142	-4685647	5954	6839996	0	345.28	0.02
3	1642	-4501	-9039321	5906	12569985	-0	345.28	0.03
4	2519	-4877	-13781404	5857	18299970	0	345.28	0.04
5	3435	-5270	-18929278	5805	24029951	0	345.28	0.05
6	4389	-5681	-24500327	5753	29759931	0	345.28	0.06
7	14049	8753	-21094905	5741	35829455	0	345.28	0.06
8	23746	-27230	-15887809	57962	95090714	146300532	345.28	0.12
9	24814	-27694	-43147216	57917	151707712	146300532	345.28	0.19
10	25919	-28178	-70899357	57877	208324777	146300532	345.28	0.24
11	20195	-58484	-122404770	71714	274719964	146300532	345.28	0.30
12	17477	-47525	-166835232	83087	357696366	158894996	345.28	0.37
13	19541	-47656	-214998381	82374	440777964	158894996	345.28	0.43
14	30341	-45819	-262100441	82503	523871894	158894996	345.28	0.30
15	41209	-69891	-289330985	135278	660138526	309915589	345.28	0.35
16	43477	-70483	-360375510	135219	795925568	309915589	345.28	0.40
17	45812	-71097	-432072260	135167	931712662	309915589	345.28	0.44
18	41348	-105601	-533438200	151562	1079926605	309915589	345.28	0.49
19	36951	-90752	-621090778	160396	1242480632	324746929	345.28	0.53
20	39490	-91427	-712622092	160347	1402712835	324746929	345.28	0.56
21	45116	-85993	-800739646	160183	1562944660	324746929	345.28	0.60
22	50810	-91132	-887678702	160037	1723176488	324746929	345.28	0.63
23	61173	-91686	-979918820	159738	1883407697	324746929	345.28	0.65
24	64746	-91799	-1066396508	158871	2032445536	324746929	345.28	0.67
25	67182	-129120	-1180381730	159720	2181489944	324746929	345.28	0.52
26	69700	-138942	-1312228415	159718	2330529719	324746929	345.28	0.53
27	73520	-139679	-1442273152	159680	2479569396	324746929	345.28	0.55
28	77422	-140438	-1573048380	159649	2628609083	324746929	345.28	0.56
29	81406	-141218	-1704569637	159624	2777648782	324746929	345.28	0.57
30	85472	-142021	-1836852465	159606	2926688491	324746929	345.28	0.58
31	89620	-142845	-1969912403	159593	3075728210	324746929	345.28	0.59
32	93851	-143691	-2103764989	159587	3224767938	324746929	345.28	0.60
33	98164	-144559	-2238425765	159586	3373807677	324746929	345.28	0.60
34	114231	-145242	-2373909610	159318	3522846440	324746929	345.28	0.61
35	118968	-146272	-2521046674	159394	3683629770	324746929	345.28	0.62
36	123800	-147233	-2669159774	159378	3844413491	324746929	345.28	0.65
37	128728	-148265	-2818268879	159431	4005198233	324746929	345.28	0.65
38	133752	-149323	-2968392813	159491	4165982985	324746929	345.28	0.65
39	138871	-150407	-3119551085	159558	4326767748	324746929	345.28	0.66
40	144086	-151518	-3271763206	159632	4487552520	324746929	345.28	0.66
41	149397	-152654	-3425048687	159713	4648337301	324746929	345.28	0.66
42	154803	-153816	-3579427037	159801	4809122091	324746929	345.28	0.66
43	160305	-155005	-3734917767	159896	4969906889	324746929	345.28	0.66
44	182145	-156064	-3891539324	159803	5130690286	324746929	345.28	0.66
45	187747	-157349	-4049580420	159967	5291745364	324746929	345.28	0.66
46	193444	-158585	-4208774681	160069	5452799043	324746929	345.28	0.68
47	199237	-159881	-4369143583	160220	5613853907	324746929	345.28	0.68
48	205126	-161204	-4530705732	160379	5774908776	324746929	345.28	0.68
49	211109	-162552	-4693480627	160544	5935963649	324746929	345.28	0.68
50	217189	-163927	-4857487772	160716	6097018528	324746929	345.28	0.68
51	223363	-165327	-5022746667	160894	6258073411	324746929	345.28	0.68
52	229634	-166755	-5189276815	161080	6419128298	324746929	345.28	0.67
53	235999	-168208	-5357097717	161272	6580183189	324746929	345.28	0.67
54	242460	-169688	-5526228875	161471	6741238083	324746929	345.28	0.67
55	249017	-171194	-5696689792	161677	6902292981	324746929	345.28	0.67
56	255669	-172727	-5868499968	161890	7063347883	324746929	345.28	0.67

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 82 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	4680.00	-1130.00	39000.00	0.00
2.00	43.82	59930.00	-8120.00	0.00	4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = 41504	La = 0	---
---	---	Pb = -5189	Tb = -49624	Lb = 0	---
3.00	43.82	59930.00	-8120.00	0.00	-4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = -40344	La = 0	---
---	---	Pb = -3370	Tb = 32224	Lb = 0	---
4.00	37.02	59930.00	-8120.00	0.00	4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = 41504	La = 0	---
---	---	Pb = -5189	Tb = -49624	Lb = 0	---
5.00	37.02	59930.00	-8120.00	0.00	-4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = -40344	La = 0	---
---	---	Pb = -3370	Tb = 32224	Lb = 0	---
6.00	30.22	47700.00	-6380.00	96000.00	4.75
---	---	---	Ft = 107896	Fp = -821	---
---	---	Pa = 47468	Ta = -6031	La = 96705	---
---	---	Pb = 232	Tb = -349	Lb = -705	---
7.00	30.22	59930.00	-8120.00	0.00	-4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = -40344	La = 0	---
---	---	Pb = -3370	Tb = 32224	Lb = 0	---

Pagina 170

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	5482	-1146	-1376357	38731	44459838	0	345.28	0.09
3	6322	-1231	-2636157	38694	81704636	-0	345.28	0.16
4	7199	-1321	-3992786	38658	118949439	0	345.28	0.21
5	8115	-1414	-5450576	38623	156194250	0	345.28	0.25
6	9069	-1512	-7013859	38591	193439068	0	345.28	0.28
7	76070	1259	-7413973	35672	230676653	0	345.28	0.33
8	143109	1241	-3658734	32946	267913644	0	345.28	0.36
9	144177	1126	-4456966	33116	305158134	0	345.28	0.38
10	145282	1007	-5378025	33291	342402820	0	345.28	0.39
11	142146	-11300	-15447441	33630	379648162	0	345.28	0.41
12	142017	-16725	-34718613	33849	416893264	0	345.28	0.42
13	144081	-15647	-53294123	30818	455455031	0	345.28	0.43
14	212222	-15802	-71800370	31883	494042341	0	345.28	0.28
15	280432	-14271	-83775175	29869	532611953	0	345.28	0.29
16	282700	-14446	-101664021	30064	571186821	0	345.28	0.29
17	285035	-14629	-119715530	30255	609761720	0	345.28	0.29
18	283159	-29137	-149327689	30568	648336948	0	345.28	0.29
19	281351	-32529	-185919315	30869	686912172	-0	345.28	0.29
20	283890	-32743	-221697104	31038	725487096	0	345.28	0.30
21	343681	-73363	-285766170	34408	767276135	-0	345.28	0.31
22	403539	-78276	-400827957	125054	911122094	283544504	345.28	0.35
23	413903	-78510	-483033526	125145	1045344420	283544504	345.28	0.38
24	417476	-77189	-559664225	121661	1170185786	283544504	345.28	0.41
25	419562	-50084	-614337838	125234	1294695645	283544504	345.28	0.32
26	421730	-47590	-660999543	125268	1418839540	283061087	345.28	0.33
27	425550	-47890	-708832309	125490	1543038866	283061087	345.28	0.34
28	429452	-48196	-756847210	125721	1667238305	283061087	345.28	0.35
29	433436	-48509	-805048114	125959	1791437839	283061087	345.28	0.36
30	437502	-48827	-853438893	126204	1915637457	283061087	345.28	0.37
31	441650	-49151	-902023416	126455	2039837147	283061087	345.28	0.38
32	445881	-49480	-950805555	126711	2164036899	283061087	345.28	0.38
33	450194	-49814	-999789181	126972	2288236706	283061087	345.28	0.39
34	466261	-50069	-1048977875	127037	2412435888	283061087	345.28	0.40
35	470998	-50502	-1102284989	127472	2546419392	283061087	345.28	0.40
36	475830	-50816	-1155835893	127627	2680404108	283061087	345.28	0.42
37	480758	-51210	-1209636122	127959	2814391619	283061087	345.28	0.43
38	485782	-51609	-1263689345	128294	2948379166	283061087	345.28	0.43
39	490901	-52014	-1318000424	128632	3082366743	283061087	345.28	0.43
40	496116	-52423	-1372574222	128971	3216354346	283061087	345.28	0.43
41	501427	-52838	-1427415602	129311	3350341971	283061087	345.28	0.43
42	506833	-53259	-1482529426	129653	3484329613	283061087	345.28	0.43
43	512335	-53684	-1537920558	129997	3618317270	283061087	345.28	0.43
44	534175	-54053	-1593593424	130195	3752303912	283061087	345.28	0.43
45	539777	-54529	-1649648430	130633	3886517096	283061087	345.28	0.43
46	545474	-54942	-1705989934	130925	4020727358	283061087	345.28	0.45
47	551267	-55399	-1762625095	131309	4154940109	283061087	345.28	0.45
48	557156	-55862	-1819557721	131694	4289152864	283061087	345.28	0.45
49	563139	-56329	-1876792672	132079	4423365621	283061087	345.28	0.45
50	569219	-56802	-1934334809	132465	4557578380	283061087	345.28	0.45
51	575393	-57280	-1992188995	132852	4691791139	283061087	345.28	0.45
52	581664	-57764	-2050360090	133240	4826003898	283061087	345.28	0.44
53	588029	-58252	-2108852957	133629	4960216655	283061087	345.28	0.44
54	594490	-58747	-2167672457	134019	5094429410	283061087	345.28	0.44
55	601047	-59246	-2226823452	134410	5228642163	283061087	345.28	0.44
56	607699	-59752	-2286310802	134802	5362854913	283061087	345.28	0.44

Pagina 171

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 83 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-1130.00	39000.00	0.00
2.00	43.82	0.00	-8120.00	0.00	4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = 580	La = 0	---
---	---	Pb = -910	Tb = -8700	Lb = 0	---
3.00	43.82	0.00	-8120.00	0.00	-4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -8120	Lb = 0	---
4.00	37.02	0.00	-8120.00	0.00	4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = 580	La = 0	---
---	---	Pb = -910	Tb = -8700	Lb = 0	---
5.00	37.02	0.00	-8120.00	0.00	-4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -8120	Lb = 0	---
6.00	30.22	0.00	-6380.00	96000.00	4.75
---	---	---	Ft = 62144	Fp = 44338	---
---	---	Pa = 18553	Ta = -16400	La = 56997	---
---	---	Pb = -18553	Tb = 10020	Lb = 39003	---
7.00	30.22	0.00	-8120.00	0.00	-4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -8120	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	802	-1213	-1376361	38962	44459976	0	345.28	0.09
3	1642	-1299	-2636166	38923	81704905	-0	345.28	0.16
4	2519	-1390	-3992798	38884	118949804	0	345.28	0.21
5	3435	-1486	-5450590	38845	156194682	0	345.28	0.25
6	4389	-1585	-7013877	38808	193439549	0	345.28	0.28
7	7635	-678	-8050608	38676	230684162	0	345.28	0.31
8	10920	-1164	-7066590	38553	267928752	0	345.28	0.33
9	11987	-1276	-8418598	38527	305173598	0	345.28	0.35
10	13093	-1392	-9893434	38503	342418452	0	345.28	0.37
11	13781	-12019	-19218527	38498	379663368	0	345.28	0.38
12	17477	-18435	-38658211	38390	416907940	0	345.28	0.39
13	19541	-18421	-57235357	37934	455480543	0	345.28	0.40
14	23928	-18499	-75851045	38230	494057202	0	345.28	0.26
15	28382	-18194	-91278113	38115	532631442	0	345.28	0.26
16	30650	-18334	-109740834	38073	571205866	0	345.28	0.27
17	32986	-18479	-128366146	38033	609780296	0	345.28	0.27
18	34934	-31066	-156938083	38007	648354765	0	345.28	0.27
19	36951	-35615	-193797363	37982	686929238	0	345.28	0.27
20	39490	-35778	-229575634	37946	725503683	-0	345.28	0.28
21	53173	8807	-234947221	40432	765974011	-0	345.28	0.28
22	66925	-52309	-255626205	94321	866596635	167118178	345.28	0.30
23	77288	-52423	-308184789	94126	961545743	167118178	345.28	0.31
24	80861	-52330	-357241606	93413	1049861782	167118178	345.28	0.33
25	75240	-87253	-436859766	121380	1157825822	167118178	345.28	0.26
26	69700	-51206	-476589784	133467	1285087961	193843555	345.28	0.28
27	73520	-51386	-524422585	133431	1409287666	193843555	345.28	0.29
28	77422	-51571	-572437492	133400	1533487380	193843555	345.28	0.30
29	81406	-51762	-620638379	133374	1657687104	193843555	345.28	0.31
30	85472	-51959	-669029121	133352	1781886836	193843555	345.28	0.32
31	89620	-52163	-717613590	133336	1906086578	193843555	345.28	0.33
32	93851	-52372	-766395662	133324	2030286327	193843555	345.28	0.34
33	98164	-52587	-815379210	133316	2154486085	193843555	345.28	0.34
34	114231	-52734	-864567867	133122	2278685217	193843555	345.28	0.35
35	118968	-52996	-917876211	133168	2412671550	193843555	345.28	0.36
36	123800	-53233	-971427900	133150	2546658119	193843555	345.28	0.38
37	128728	-53494	-1025227966	133180	2680645358	193843555	345.28	0.38
38	133752	-53762	-1079281021	133216	2814632608	193843555	345.28	0.39
39	138871	-54038	-1133591930	133258	2948619868	193843555	345.28	0.39
40	144086	-54320	-1188165555	133306	3082607137	193843555	345.28	0.39
41	149397	-54610	-1243006762	133359	3216594415	193843555	345.28	0.40
42	154803	-54907	-1298120413	133418	3350581702	193843555	345.28	0.40
43	160305	-55211	-1353511373	133482	3484568997	193843555	345.28	0.40
44	182145	-55466	-1409184119	133411	3618555309	193843555	345.28	0.40
45	187747	-55800	-1465238811	133526	3752767801	193843555	345.28	0.40
46	193444	-56117	-1521580857	133597	3886979303	193843555	345.28	0.42
47	199237	-56453	-1578215834	133704	4021191645	193843555	345.28	0.42
48	205126	-56797	-1635148278	133817	4155403993	193843555	345.28	0.42
49	211109	-57147	-1692383050	133935	4289616348	193843555	345.28	0.42
50	217189	-57505	-1749925013	134059	4423828708	193843555	345.28	0.42
51	223363	-57870	-1807779028	134189	4558041073	193843555	345.28	0.42
52	229634	-58242	-1865949957	134324	4692253443	193843555	345.28	0.42
53	235999	-58622	-1924442660	134464	4826465818	193843555	345.28	0.41
54	242460	-59008	-1983262000	134610	4960678197	193843555	345.28	0.41
55	249017	-59402	-2042412838	134762	5094890580	193843555	345.28	0.41
56	255669	-59804	-2101900036	134919	5229102967	193843555	345.28	0.41

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 84 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	4680.00	-1130.00	39000.00	0.00
2.00	43.82	59930.00	-8120.00	0.00	4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = 41504	La = 0	---
---	---	Pb = -5189	Tb = -49624	Lb = 0	---
3.00	43.82	59930.00	-8120.00	0.00	-4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = -40344	La = 0	---
---	---	Pb = -3370	Tb = 32224	Lb = 0	---
4.00	37.02	47700.00	-6380.00	96000.00	4.75
---	---	---	Ft = 107896	Fp = -821	---
---	---	Pa = 47468	Ta = -6031	La = 96705	---
---	---	Pb = 232	Tb = -349	Lb = -705	---
5.00	37.02	59930.00	-8120.00	0.00	-4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = -40344	La = 0	---
---	---	Pb = -3370	Tb = 32224	Lb = 0	---
6.00	30.22	59930.00	-8120.00	0.00	4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = 41504	La = 0	---
---	---	Pb = -5189	Tb = -49624	Lb = 0	---
7.00	30.22	59930.00	-8120.00	0.00	-4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = -40344	La = 0	---
---	---	Pb = -3370	Tb = 32224	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	5482	-1136	-1376357	38672	44459838	0	345.28	0.09
3	6322	-1220	-2636157	38626	81704636	-0	345.28	0.16
4	7199	-1308	-3992786	38581	118949439	0	345.28	0.21
5	8115	-1400	-5450576	38536	156194250	0	345.28	0.25
6	9069	-1497	-7013859	38494	193439068	0	345.28	0.28
7	76070	1389	-7413973	34860	230676653	0	345.28	0.33
8	143109	1486	-3658734	31422	267913644	0	345.28	0.36
9	144177	1372	-4456966	31583	305158134	0	345.28	0.38
10	145282	1255	-5378025	31747	342402820	0	345.28	0.39
11	142146	-11059	-15447441	32122	379648162	0	345.28	0.41
12	142017	-16484	-34718613	32344	416893264	0	345.28	0.42
13	144081	-15248	-53294123	28325	455455031	0	345.28	0.43
14	203397	-18813	-73942327	30049	494059447	0	345.28	0.28
15	262780	-61608	-189092950	124375	629149486	274081344	345.28	0.34
16	265048	-61824	-253996604	124576	763371590	274081344	345.28	0.39
17	267384	-62065	-319063154	124809	897594253	274081344	345.28	0.43
18	268218	-35789	-363035488	124670	1031462847	274081344	345.28	0.46
19	269121	-30766	-395195409	124763	1164922506	273657975	345.28	0.49
20	271660	-31044	-429252672	125056	1298448556	273657975	345.28	0.51
21	340276	-26023	-460397216	123045	1431966849	273657975	345.28	0.54
22	408961	-28940	-490290273	121243	1565485151	273657975	345.28	0.56
23	419324	-29212	-523760329	121526	1699010794	273657975	345.28	0.58
24	422897	-27907	-555059627	117271	1823200856	273657975	345.28	0.59
25	422273	-45492	-598378070	122586	1947428268	273657975	345.28	0.45
26	421730	-47639	-646636083	123052	2071628495	273657975	345.28	0.45
27	425550	-47936	-694468835	123396	2195828446	273657975	345.28	0.46
28	429452	-48240	-742483723	123741	2320028458	273657975	345.28	0.46
29	433436	-48550	-790684616	124088	2444228520	273657975	345.28	0.47
30	437502	-48866	-839075384	124435	2568428625	273657975	345.28	0.47
31	441650	-49187	-887659897	124783	2692628764	273657975	345.28	0.48
32	445881	-49514	-936442027	125131	2816828932	273657975	345.28	0.48
33	450194	-49847	-985425645	125479	2941029124	273657975	345.28	0.48
34	466261	-50100	-1034614335	125591	3065228479	273657975	345.28	0.48
35	470998	-50532	-1087921463	126136	3199211323	273657975	345.28	0.48
36	475830	-50844	-1141472373	126349	3333195759	273657975	345.28	0.50
37	480758	-51236	-1195272593	126768	3467183678	273657975	345.28	0.50
38	485782	-51633	-1249325808	127186	3601171603	273657975	345.28	0.50
39	490901	-52036	-1303636880	127601	3735159531	273657975	345.28	0.50
40	496116	-52444	-1358210670	128015	3869147461	273657975	345.28	0.50
41	501427	-52858	-1413052043	128428	4003135390	273657975	345.28	0.50
42	506833	-53277	-1468165861	128839	4137123317	273657975	345.28	0.50
43	512335	-53701	-1523556987	129249	4271111239	273657975	345.28	0.50
44	534175	-54069	-1579229852	129490	4405097948	273657975	345.28	0.50
45	539777	-54543	-1635284851	130003	4539311457	273657975	345.28	0.49
46	545474	-54955	-1691626359	130347	4673521541	273657975	345.28	0.51
47	551267	-55411	-1748261515	130794	4807734523	273657975	345.28	0.51
48	557156	-55872	-1805194136	131240	4941947494	273657975	345.28	0.50
49	563139	-56338	-1862429082	131685	5076160455	273657975	345.28	0.50
50	569219	-56809	-1919971215	132128	5210373405	273657975	345.28	0.50
51	575393	-57286	-1977825397	132571	5344586345	273657975	345.28	0.50
52	581664	-57769	-2035996489	133013	5478799273	273657975	345.28	0.49
53	588029	-58256	-2094489352	133454	5613012191	273657975	345.28	0.49
54	594490	-58749	-2153308849	133895	5747225098	273657975	345.28	0.49
55	601047	-59248	-2212459840	134336	5881437995	273657975	345.28	0.48
56	607699	-59752	-2271947188	134777	6015650881	273657975	345.28	0.48

Pagina 175

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 85 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-1130.00	39000.00	0.00
2.00	43.82	0.00	-8120.00	0.00	4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = 580	La = 0	---
---	---	Pb = -910	Tb = -8700	Lb = 0	---
3.00	43.82	0.00	-8120.00	0.00	-4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -8120	Lb = 0	---
4.00	37.02	0.00	-6380.00	96000.00	4.75
---	---	---	Ft = 62144	Fp = 44338	---
---	---	Pa = 18553	Ta = -16400	La = 56997	---
---	---	Pb = -18553	Tb = 10020	Lb = 39003	---
5.00	37.02	0.00	-8120.00	0.00	-4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -8120	Lb = 0	---
6.00	30.22	0.00	-8120.00	0.00	4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = 580	La = 0	---
---	---	Pb = -910	Tb = -8700	Lb = 0	---
7.00	30.22	0.00	-8120.00	0.00	-4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -8120	Lb = 0	---

Pagina 176

05/05/2000

99-cei

EUT - 5400 - C

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm ²]	% Uso
2	802	-1213	-1376361	38954	44459976	0	345.28	0.09
3	1642	-1300	-2636166	38907	81704905	-0	345.28	0.16
4	2519	-1391	-3992798	38860	118949804	0	345.28	0.21
5	3435	-1486	-5450590	38812	156194682	0	345.28	0.25
6	4389	-1585	-7013877	38766	193439549	0	345.28	0.28
7	7635	-678	-8050608	38604	230684162	0	345.28	0.31
8	10920	-1164	-7066590	38449	267928752	0	345.28	0.33
9	11987	-1277	-8418598	38413	305173598	0	345.28	0.35
10	13093	-1393	-9893434	38379	342418452	0	345.28	0.37
11	13781	-12020	-19218527	38368	379663368	0	345.28	0.38
12	17477	-18436	-38658211	38225	416907940	0	345.28	0.39
13	19541	-18423	-57235357	37632	455480543	0	345.28	0.40
14	32749	-15180	-73721004	37651	494066177	0	345.28	0.26
15	46026	-34980	-50387049	94127	589528603	161540690	345.28	0.29
16	48293	-35120	-85643756	94086	684478122	161540690	345.28	0.32
17	50629	-35266	-121063070	94050	779427680	161540690	345.28	0.34
18	43756	-63913	-182665028	119822	893987951	161540690	345.28	0.37
19	36951	-33873	-209809018	133666	1031178567	184946391	345.28	0.40
20	39490	-34036	-243866279	133625	1164705402	184946391	345.28	0.43
21	44352	-31925	-276559323	133514	1298232008	184946391	345.28	0.45
22	49282	-33758	-308719848	133415	1431758619	184946391	345.28	0.47
23	59645	-33871	-342763377	133164	1565284632	184946391	345.28	0.49
24	63218	-33835	-374598551	132457	1689482867	184946391	345.28	0.51
25	66418	-47648	-416613661	133124	1813686381	184946391	345.28	0.39
26	69700	-51213	-465207424	133100	1937886135	184946391	345.28	0.40
27	73520	-51392	-513040224	133069	2062085866	184946391	345.28	0.41
28	77422	-51577	-561055131	133043	2186285605	184946391	345.28	0.41
29	81406	-51768	-609256018	133023	2310485354	184946391	345.28	0.42
30	85472	-51965	-657646759	133007	2434685111	184946391	345.28	0.42
31	89620	-52169	-706231228	132996	2558884877	184946391	345.28	0.43
32	93851	-52378	-755013300	132991	2683084650	184946391	345.28	0.43
33	98164	-52593	-803996847	132991	2807284432	184946391	345.28	0.44
34	114231	-52740	-853185507	132767	2931483402	184946391	345.28	0.44
35	118968	-53002	-906493855	132830	3065469512	184946391	345.28	0.44
36	123800	-53239	-960045546	132817	3199455947	184946391	345.28	0.46
37	128728	-53500	-1013845611	132861	3333443232	184946391	345.28	0.46
38	133752	-53768	-1067898666	132911	3467430525	184946391	345.28	0.46
39	138871	-54043	-1122209574	132967	3601417827	184946391	345.28	0.47
40	144086	-54325	-1176783199	133028	3735405137	184946391	345.28	0.47
41	149397	-54614	-1231624405	133096	3869392455	184946391	345.28	0.46
42	154803	-54911	-1286738055	133169	4003379779	184946391	345.28	0.46
43	160305	-55215	-1342129014	133248	4137367110	184946391	345.28	0.46
44	182145	-55470	-1397801763	133170	4271353276	184946391	345.28	0.46
45	187747	-55804	-1453856453	133307	4405565840	184946391	345.28	0.46
46	193444	-56121	-1510198501	133392	4539777240	184946391	345.28	0.48
47	199237	-56457	-1566833477	133518	4673989626	184946391	345.28	0.48
48	205126	-56799	-1623765920	133650	4808202017	184946391	345.28	0.47
49	211109	-57150	-1681000693	133787	4942414411	184946391	345.28	0.47
50	217189	-57507	-1738542655	133931	5076626810	184946391	345.28	0.47
51	223363	-57872	-1796396669	134079	5210839212	184946391	345.28	0.47
52	229634	-58244	-1854567597	134234	5345051617	184946391	345.28	0.46
53	235999	-58623	-1913060299	134394	5479264026	184946391	345.28	0.46
54	242460	-59009	-1971879639	134560	5613476438	184946391	345.28	0.46
55	249017	-59403	-2031030476	134731	5747688853	184946391	345.28	0.46
56	255669	-59804	-2090517674	134908	5881901271	184946391	345.28	0.46

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 86 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	9360.00	-2260.00	8000.00	0.00
2.00	43.82	47700.00	-6380.00	96000.00	4.75
---	---	---	Ft = 107896	Fp = -821	---
---	---	Pa = 47468	Ta = -6031	La = 96705	---
---	---	Pb = 232	Tb = -349	Lb = -705	---
3.00	43.82	59930.00	-8120.00	0.00	-4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = -40344	La = 0	---
---	---	Pb = -3370	Tb = 32224	Lb = 0	---
4.00	37.02	47700.00	-6380.00	96000.00	4.75
---	---	---	Ft = 107896	Fp = -821	---
---	---	Pa = 47468	Ta = -6031	La = 96705	---
---	---	Pb = 232	Tb = -349	Lb = -705	---
5.00	37.02	59930.00	-8120.00	0.00	-4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = -40344	La = 0	---
---	---	Pb = -3370	Tb = 32224	Lb = 0	---
6.00	30.22	59930.00	-8120.00	0.00	4.75
---	---	---	Ft = 77221	Fp = -49895	---
---	---	Pa = 65119	Ta = 41504	La = 0	---
---	---	Pb = -5189	Tb = -49624	Lb = 0	---
7.00	30.22	59930.00	-8120.00	0.00	-4.75
---	---	---	Ft = 75063	Fp = -32400	---
---	---	Pa = 63300	Ta = -40344	La = 0	---
---	---	Pb = -3370	Tb = 32224	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	10162	-2093	-2664544	7212	9119938	0	345.28	0.02
3	11002	-2170	-5003481	7150	16759870	-0	345.28	0.04
4	11879	-2250	-7439247	7086	24399810	0	345.28	0.05
5	12795	-2334	-9976176	7020	32039757	0	345.28	0.06
6	13749	-2422	-12618601	6953	39679710	0	345.28	0.06
7	71924	-18575	-26675680	3508	47934868	0	345.28	0.09
8	130138	-46174	-114215231	94907	152722628	265515091	345.28	0.26
9	131205	-46356	-161486394	94946	252711753	265515091	345.28	0.37
10	132311	-46564	-208880784	95035	352701809	265515091	345.28	0.46
11	131885	-24229	-239560948	94892	452413718	265515091	345.28	0.53
12	134467	-15161	-254140805	94633	551652524	265155574	345.28	0.59
13	136531	-13626	-272107805	88910	654499174	265155574	345.28	0.64
14	195847	-17382	-292159452	91117	757396891	265155574	345.28	0.44
15	255230	-59999	-406705575	184276	956774047	539236918	345.28	0.53
16	257498	-60301	-471006640	184571	1155285838	539236918	345.28	0.59
17	259834	-60619	-535470510	184911	1353798422	539236918	345.28	0.64
18	260668	-34419	-578840115	184920	1551957216	539236918	345.28	0.69
19	261571	-29464	-610397219	185169	1749707239	538813549	345.28	0.72
20	264110	-29801	-643851575	185595	1947523694	538813549	345.28	0.76
21	332726	-24667	-674391917	182586	2145328503	538813549	345.28	0.79
22	401411	-27496	-703680928	179889	2343133333	538813549	345.28	0.82
23	411774	-27825	-736548009	180298	2540949148	538813549	345.28	0.84
24	415347	-26323	-767285478	174078	2724934598	538813549	345.28	0.85
25	414723	-44228	-810046072	181852	2908974878	538813549	345.28	0.65
26	414180	-46421	-857743151	182537	3092975239	538813549	345.28	0.66
27	418000	-46755	-905014911	183039	3276975182	538813549	345.28	0.67
28	421902	-47093	-952468790	183543	3460975211	538813549	345.28	0.67
29	425886	-47434	-1000108657	184048	3644975312	538813549	345.28	0.68
30	429952	-47780	-1047938385	184555	3828975473	538813549	345.28	0.68
31	434100	-48130	-1095961846	185063	4012975684	538813549	345.28	0.69
32	438331	-48483	-1144182911	185570	4196975936	538813549	345.28	0.69
33	442644	-48840	-1192605455	186077	4380976222	538813549	345.28	0.69
34	458711	-49106	-1241233001	186234	4564975259	538813549	345.28	0.69
35	463448	-49568	-1293934531	187031	4763468440	538813549	345.28	0.70
36	468280	-49897	-1346879952	187341	4961963953	538813549	345.28	0.73
37	473208	-50313	-1400074877	187954	5160464568	538813549	345.28	0.73
38	478232	-50733	-1453522787	188563	5358965191	538813549	345.28	0.72
39	483351	-51158	-1507228545	189171	5557465819	538813549	345.28	0.72
40	488566	-51586	-1561197014	189775	5755966448	538813549	345.28	0.72
41	493877	-52019	-1615433057	190378	5954467075	538813549	345.28	0.72
42	499283	-52457	-1669941539	190979	6152967698	538813549	345.28	0.71
43	504785	-52899	-1724727323	191578	6351468316	538813549	345.28	0.71
44	526625	-53277	-1779794784	191927	6549967128	538813549	345.28	0.71
45	532227	-53771	-1835243438	192678	6748801938	538813549	345.28	0.71
46	537924	-54197	-1890978467	193182	6947631727	538813549	345.28	0.73
47	543717	-54669	-1947007253	193836	7146465764	538813549	345.28	0.72
48	549606	-55146	-2003333498	194489	7345299785	538813549	345.28	0.72
49	555589	-55628	-2059962064	195140	7544133790	538813549	345.28	0.71
50	561669	-56114	-2116897814	195789	7742967780	538813549	345.28	0.71
51	567843	-56605	-2174145609	196438	7941801754	538813549	345.28	0.71
52	574114	-57101	-2231710310	197086	8140635712	538813549	345.28	0.70
53	580479	-57602	-2289596780	197733	8339469654	538813549	345.28	0.70
54	586940	-58108	-2347809881	198380	8538303581	538813549	345.28	0.69
55	593497	-58620	-2406354473	199026	8737137492	538813549	345.28	0.69
56	600149	-59136	-2465235420	199673	8935971388	538813549	345.28	0.68

Pagina 179

05/05/2000

99-cei

EUT - 5400 - C

CONDIZIONI GENERALI DI CARICO

Condizione di carico n. 87 " NDT - MSB - ZONA B - ECCEZIONALE - RESISTENZA - 2 x 40.5 - (-) "

Pressione trasversale del vento = -176.0 N/mq

Pressione longitudinale del vento = 0.0 N/mq

Tipo di condizione di carico: accidentale

CARICHI CONCENTRATI

Livello	H [m]	Verticali [N]	Trasversali [N]	Longitudinali [N]	Eccentricità del conduttore [m]
1.00	53.55	0.00	-2260.00	8000.00	0.00
2.00	43.82	0.00	-6380.00	96000.00	4.75
---	---	---	Ft = 62144	Fp = 44338	---
---	---	Pa = 18553	Ta = -16400	La = 56997	---
---	---	Pb = -18553	Tb = 10020	Lb = 39003	---
3.00	43.82	0.00	-8120.00	0.00	-4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -8120	Lb = 0	---
4.00	37.02	0.00	-6380.00	96000.00	4.75
---	---	---	Ft = 62144	Fp = 44338	---
---	---	Pa = 18553	Ta = -16400	La = 56997	---
---	---	Pb = -18553	Tb = 10020	Lb = 39003	---
5.00	37.02	0.00	-8120.00	0.00	-4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -8120	Lb = 0	---
6.00	30.22	0.00	-8120.00	0.00	4.75
---	---	---	Ft = 1079	Fp = -8747	---
---	---	Pa = 910	Ta = 580	La = 0	---
---	---	Pb = -910	Tb = -8700	Lb = 0	---
7.00	30.22	0.00	-8120.00	0.00	-4.75
---	---	---	Ft = -1079	Fp = 0	---
---	---	Pa = 0	Ta = 0	La = 0	---
---	---	Pb = 0	Tb = -8120	Lb = 0	---

TABELLA DESCRITTIVA DELLE AZIONI INTERNE.

Nodo	Carico verticale [N]	Tx [N]	My [Nmm]	Ty [N]	Mx [Nmm]	Mt [Nmm]	Sig. amm. [N/mm2]	% Uso
2	802	-2342	-2664561	7944	9119995	0	345.28	0.02
3	1642	-2429	-5003513	7886	16759981	0	345.28	0.03
4	2519	-2519	-7439292	7827	24399960	0	345.28	0.04
5	3435	-2614	-9976231	7765	32039935	0	345.28	0.05
6	4389	-2713	-12618664	7701	39679908	0	345.28	0.06
7	16457	17109	-2573382	7450	47682985	0	345.28	0.07
8	28563	-19053	22719246	63075	112583048	156491830	345.28	0.15
9	29631	-19161	4073040	63023	174654728	156491830	345.28	0.21
10	30736	-19275	-14696026	62978	236726502	156491830	345.28	0.26
11	22603	-45155	-54638176	84852	314229327	156491830	345.28	0.32
12	17477	-17815	-66896604	102894	417899478	176367461	345.28	0.40
13	19541	-17796	-84870297	102028	520762507	176367461	345.28	0.46
14	32749	-14555	-100752705	102037	623638850	176367461	345.28	0.33
15	46026	-34352	-76815369	158275	783391588	337908151	345.28	0.38
16	48293	-34492	-111468742	158209	942631647	337908151	345.28	0.43
17	50629	-34640	-146284722	158152	1101871778	337908151	345.28	0.48
18	43756	-63290	-207283371	184067	1280723029	337908151	345.28	0.52
19	36951	-33253	-233824046	198048	1482204712	361313852	345.28	0.57
20	39490	-33417	-267277965	197986	1680022242	361313852	345.28	0.61
21	44352	-31307	-299367663	197823	1877839441	361313852	345.28	0.65
22	49282	-33139	-330924843	197677	2075656649	361313852	345.28	0.68
23	59645	-33252	-364365018	197308	2273472985	361313852	345.28	0.71
24	63218	-33213	-395638979	196269	2457470403	361313852	345.28	0.73
25	66418	-47030	-437092941	197246	2641475501	361313852	345.28	0.56
26	69700	-50595	-485125507	197211	2825475136	361313852	345.28	0.57
27	73520	-50775	-532397109	197165	3009474734	361313852	345.28	0.58
28	77422	-50960	-579850818	197126	3193474346	361313852	345.28	0.59
29	81406	-51152	-627490507	197095	3377473972	361313852	345.28	0.60
30	85472	-51349	-675320051	197071	3561473611	361313852	345.28	0.61
31	89620	-51553	-723343322	197055	3745473262	361313852	345.28	0.61
32	93851	-51762	-771564196	197047	3929472925	361313852	345.28	0.62
33	98164	-51978	-819986545	197046	4113472600	361313852	345.28	0.62
34	114231	-52125	-868614003	196717	4297471086	361313852	345.28	0.63
35	118968	-52387	-921316922	196809	4495969042	361313852	345.28	0.63
36	123800	-52624	-974263187	196790	4694467474	361313852	345.28	0.66
37	128728	-52886	-1027457830	196854	4892967151	361313852	345.28	0.66
38	133752	-53154	-1080905462	196926	5091466842	361313852	345.28	0.66
39	138871	-53429	-1134610948	197008	5289966546	361313852	345.28	0.66
40	144086	-53712	-1188579151	197098	5488466262	361313852	345.28	0.66
41	149397	-54001	-1242814934	197197	5686965988	361313852	345.28	0.66
42	154803	-54298	-1297323162	197305	5885465726	361313852	345.28	0.66
43	160305	-54602	-1352108698	197421	6083965473	361313852	345.28	0.66
44	182145	-54858	-1407176022	197306	6282463506	361313852	345.28	0.66
45	187747	-55192	-1462624273	197507	6481296930	361313852	345.28	0.66
46	193444	-55509	-1518359880	197632	6680128641	361313852	345.28	0.68
47	199237	-55845	-1574388417	197818	6878961802	361313852	345.28	0.68
48	205126	-56188	-1630714421	198012	7077794970	361313852	345.28	0.67
49	211109	-56539	-1687342754	198214	7276628144	361313852	345.28	0.67
50	217189	-56896	-1744278276	198425	7475461325	361313852	345.28	0.67
51	223363	-57261	-1801525851	198644	7674294510	361313852	345.28	0.66
52	229634	-57633	-1859090339	198871	7873127702	361313852	345.28	0.66
53	235999	-58012	-1916976602	199107	8071960898	361313852	345.28	0.66
54	242460	-58399	-1975189502	199351	8270794098	361313852	345.28	0.65
55	249017	-58793	-2033733899	199604	8469627303	361313852	345.28	0.65
56	255669	-59194	-2092614657	199865	8668460513	361313852	345.28	0.65

VERIFICA DEI TIRAFONDI

La tensione nei tirafondi è valutata considerando simultaneamente carico assiale, il momento flettente, il taglio e la Torsione.

La combinazione più sfavorevole per il calcolo dei tirafondi è la n. 4

Numero dei tirafondi = **40**

Diametro dei tirafondi = **42.0** [mm]

Cerchio dei tirafondi = **2130.0** [mm]

Sezione resistente del cerchio di tirafondi = **44800.0** [mm²]

Modulo di resistenza del cerchio di tirafondi = **23856000.0** [mm³]

Le barre per la realizzazione dei tirafondi sono in acciaio tipo: CLASSE 8.8 (EN 20898). La tensione ammissibile è pari a 320 [N/mm²]

Tensione normalizzata nei tirafondi = **0.98** [N/mm²]

VERIFICA DELLA FLANGIA DI BASE

Il dispositivo di fissaggio alla fondazione è costituito da un doppio anello circolare saldato al palo ed opportunamente forato al fine di inserirvi i tirafondi. Le due flange sono collegate ed irrigidite da un gruppo di nervature. Ad ogni tirafondo corrisponde una nervatura.

Le tensioni nella flangia e nelle nervature sono calcolate ripartendo il tiro totale di un tirafondo secondo un traliccio che coinvolge la flangia ed una nervatura. Inoltre localmente si valutano gli effetti delle flessioni, indotte dai tirafodi, sul settore di flangia.

La verifica della stabilità delle nervature compresse è condotta secondo i criteri delle CNR 10011.

Spessore della piastra di base = **50.0** [mm]

Diametro esterno della flangia = **2260.0** [mm]

La combinazione più sfavorevole per il calcolo della flangia è la n. 4

Tensione normalizzata della flangia = **0.60** [N/mm²]

N. 40 nervature spessore = **15** [mm]

Tensione ammissibile nella flangia = **215.8** [N/mm²]

Pagina 182

05/05/2000

99-cei

EUT - 5400 - C

LINEA ELASTICA

Cond. n.	Tipo	H [mm]	Freccia trasversale [mm]	Freccia longitudinale [mm]	Freccia totale [mm]	Rotazione totale
1	N	53360	0	0	0	0.000°
2	N	53360	316	39	319	0.580°
3	N	53360	289	40	291	0.534°
4	N	53360	1255	108	1260	2.278°
5	N	53360	1195	102	1199	2.160°
6	N	53360	1253	90	1257	2.267°
7	N	53360	1195	85	1198	2.153°
8	N	53360	517	148	538	1.043°
9	N	53360	479	136	497	0.960°
10	N	53360	1139	108	1144	2.084°
11	N	53360	1082	102	1087	1.970°
12	N	53360	1138	108	1143	2.082°
13	N	53360	1082	102	1087	1.970°
14	N	53360	430	148	455	0.910°
15	N	53360	399	136	421	0.839°
16	E	53360	1180	815	1434	2.894°
17	E	53360	1159	737	1373	2.754°
18	E	53360	1161	979	1519	3.112°
19	E	53360	1155	878	1451	2.949°
20	E	53360	1112	1242	1667	3.212°
21	E	53360	1173	1060	1581	3.011°
22	E	53360	1180	765	1406	2.805°
23	E	53360	1159	691	1349	2.675°
24	E	53360	1161	922	1483	3.004°
25	E	53360	1154	826	1419	2.854°
26	E	53360	1114	1172	1617	3.090°
27	E	53360	1172	997	1539	2.912°
28	E	53360	440	1018	1110	2.632°
29	E	53360	460	893	1004	2.393°
30	E	53360	417	1221	1290	3.034°
31	E	53360	458	1061	1155	2.714°
32	E	53360	326	1553	1587	3.336°
33	E	53360	475	1277	1362	2.740°
34	E	53360	1182	788	1421	2.827°
35	E	53360	1154	752	1378	2.759°
36	E	53360	1203	955	1536	3.147°
37	E	53360	1156	902	1466	2.991°
38	E	53360	1344	1262	1843	3.810°
39	E	53360	1200	1133	1650	3.221°
40	E	53360	1182	743	1396	2.746°
41	E	53360	1154	707	1354	2.681°
42	E	53360	1202	902	1503	3.050°
43	E	53360	1156	851	1435	2.898°
44	E	53360	1341	1198	1798	3.705°
45	E	53360	1201	1071	1609	3.125°
46	E	53360	500	937	1062	2.485°
47	E	53360	453	892	1001	2.383°
48	E	53360	522	1126	1241	2.903°
49	E	53360	453	1062	1154	2.714°
50	E	53360	652	1455	1594	3.437°
51	E	53360	472	1295	1378	2.793°
52	E	53360	1048	976	1432	2.952°
53	E	53360	1043	885	1368	2.801°
54	E	53360	1021	1219	1590	3.324°
55	E	53360	1037	1099	1511	3.135°
56	E	53360	935	1775	2006	3.951°

Pagina 183

05/05/2000

99-cei

EUT - 5400 - C

LINEA ELASTICA

Cond. n.	Tipo	H [mm]	Freccia trasversale [mm]	Freccia longitudinale [mm]	Freccia totale [mm]	Rotazione totale
57	E	53360	1048	1556	1876	3.637°
58	E	53360	1048	946	1411	2.900°
59	E	53360	1043	858	1351	2.755°
60	E	53360	1021	1179	1560	3.252°
61	E	53360	1036	1063	1485	3.073°
62	E	53360	937	1712	1952	3.841°
63	E	53360	1048	1500	1830	3.546°
64	E	53360	336	1238	1283	2.988°
65	E	53360	379	1096	1160	2.714°
66	E	53360	306	1537	1567	3.599°
67	E	53360	376	1353	1405	3.223°
68	E	53360	179	2212	2220	4.599°
69	E	53360	390	1891	1931	3.854°
70	E	53360	1071	929	1417	2.875°
71	E	53360	1033	894	1366	2.794°
72	E	53360	1089	1164	1594	3.322°
73	E	53360	1030	1114	1517	3.154°
74	E	53360	1223	1729	2118	4.365°
75	E	53360	1052	1607	1921	3.771°
76	E	53360	1070	901	1399	2.828°
77	E	53360	1033	867	1349	2.749°
78	E	53360	1088	1128	1568	3.258°
79	E	53360	1030	1079	1492	3.092°
80	E	53360	1221	1673	2071	4.271°
81	E	53360	1052	1553	1876	3.683°
82	E	53360	432	1132	1211	2.793°
83	E	53360	371	1089	1150	2.693°
84	E	53360	457	1407	1479	3.386°
85	E	53360	369	1346	1395	3.204°
86	E	53360	604	2040	2127	4.458°
87	E	53360	379	1888	1926	3.853°

Pagina 184

05/05/2000

99-cei

EUT - 5400 - C

SFORZI TRASMESSI ALLA FONDAZIONE

Cond.	Tipo	Carico verticale [N]	Tx [N]	Ty [N]	Rt [N]	My [Nmm]	Mx [Nmm]	Rm [Nmm]	Mt [Nmm]
1	N	509469	0	0	0	0	0	0	-0
2	N	501719	50229	2200	50277	1779375323	125440897	1783791456	-0
3	N	517769	46029	2200	46081	1620635390	125881848	1625516935	-0
4	N	528569	198570	6001	198661	7049791744	344199669	7058189360	-0
5	N	255669	198560	6000	198650	6828323464	323882982	6836095454	0
6	N	523869	198570	5001	198633	7044671064	286524307	7050495484	-0
7	N	255669	198560	5000	198623	6828323464	271569151	6833721617	0
8	N	627489	74834	8002	75260	2811795189	469928883	2850793809	-0
9	N	255669	74827	8000	75253	2678306014	434427432	2713309842	0
10	N	538499	181409	6001	181509	6392309228	344968220	6401610762	-0
11	N	255669	181400	6000	181499	6181486966	325870649	6190070500	0
12	N	534819	181409	6001	181508	6388691227	344680567	6397982517	-0
13	N	255669	181400	6000	181499	6181486966	325870649	6190070500	0
14	N	624609	62712	8002	63221	2331844031	469636530	2378666655	-0
15	N	255669	62707	8000	63215	2221551511	434415834	2263627229	0
16	E	520289	193329	84006	210792	6753274296	3600865807	7653296562	143464000
17	E	255669	193320	84001	210781	6646768795	3356027183	7445968967	78881536
18	E	520289	193329	84008	210792	6726647178	4007207297	7829782410	138223498
19	E	255669	193320	84001	210781	6623570865	3734063196	7603612230	74007278
20	E	517369	191888	115010	223715	6603173780	5391898545	8524932486	271605330
21	E	255669	191880	115001	223703	6602232590	4968789917	8263071367	143117492
22	E	515819	193329	79506	209039	6751835237	3396426913	7557975578	137171437
23	E	255669	193320	79501	209028	6646063085	3165239021	7361310521	74172232
24	E	515819	193329	79507	209039	6725339763	3783629403	7716608477	132169689
25	E	255669	193320	79501	209028	6622870160	3525905787	7502960800	69527749
26	E	512929	191888	109009	220690	6605205499	5099830025	8344879027	259720054
27	E	255669	191880	109001	220678	6600818547	4697963004	8101954202	134382136
28	E	614719	72202	99013	122543	2547650198	4402031675	5086099134	198785246
29	E	255669	72197	99001	122530	2584109874	4011848696	4772059702	110540783
30	E	614719	72202	99015	122545	2533536021	4886721635	5504439400	192540581
31	E	255669	72197	99001	122530	2573488549	4448938082	5139639421	104796548
32	E	611009	71831	134020	152056	2380564477	6520745745	6941700966	379512637
33	E	255669	71827	134001	152037	2581151397	5861058619	6404244739	203948875
34	E	520289	-193106	83889	210540	-6719558981	3509054982	7580629246	207688512
35	E	255669	-193216	83947	210664	-6618311628	3395228955	7438388836	131766857
36	E	520289	-193107	83877	210536	-6695381898	3879653023	7738206920	202083795
37	E	255669	-193216	83941	210662	-6595735469	3765827992	7595076487	126592689
38	E	517369	-191663	114833	223431	-6851815703	5292034136	8657540281	399381016
39	E	255669	-191776	114921	223573	-6617546208	5064377341	8333056802	248333679
40	E	515819	-193108	79396	208792	-6717307208	3318751429	7492417979	201692491
41	E	255669	-193216	79450	208913	-6618932516	3206487932	7354714985	126813391
42	E	515819	-193109	79385	208789	-6693150012	3672349575	7634422603	196324847
43	E	255669	-193216	79445	208911	-6596342053	3560087013	7495728651	121870383
44	E	512929	-191665	108843	220414	-6847375507	5021061374	8491031071	388085716
45	E	255669	-191776	108925	220551	-6618761538	4796530012	8174026208	239112559
46	E	614719	-72095	98845	122344	-2711738929	4138402640	4947717092	226996147
47	E	255669	-72156	98938	122455	-2567136885	3997423268	4750745686	132961030
48	E	614719	-72095	98829	122331	-2699656604	4566799963	5305073768	220591499
49	E	255669	-72157	98931	122450	-2557207770	4425822155	5111478585	127089651
50	E	611009	-71719	133772	151784	-2874194869	6135138730	6775022020	435638672
51	E	255669	-71786	133909	151937	-2575890627	5853172036	6394906989	248554313
52	E	526949	175218	112008	207960	6023972264	4603484513	7581577111	201483377
53	E	255669	175210	112001	207948	5971639779	4316176097	7368165155	134079247
54	E	526949	175218	112010	207960	5989406296	5208042466	7937045679	193761308
55	E	255669	175209	112001	207949	5941765515	4878284968	7687798233	126739423
56	E	520899	172827	168015	241035	5778478661	7812657081	9717428996	380316678

SFORZI TRASMESSI ALLA FONDAZIONE

Cond. n.	Tipo	Carico verticale [N]	Tx [N]	Ty [N]	Rt [N]	My [Nmm]	Mx [Nmm]	Rm [Nmm]	Mt [Nmm]
56	E	520899	172827	168015	241035	5778478661	7812657081	9717428996	380316678
57	E	255669	172820	168001	241021	5878921608	7280180503	9357496857	246215089
58	E	523459	175218	108208	205938	6023758694	4451340492	7490000065	194671385
59	E	255669	175210	108201	205927	5971345829	4173953691	7285524032	128308681
60	E	523459	175218	108210	205938	5989328526	5032900190	7823179694	187231630
61	E	255669	175209	108201	205927	5941479416	4715214178	7585144850	121245266
62	E	517519	172827	162014	236892	5781722018	7533427215	9496359044	367524766
63	E	255669	172820	162001	236878	5878337846	7019907286	9156088365	235495114
64	E	607699	59841	135016	147683	2008641091	5710191811	6053175162	264526741
65	E	255669	59837	135001	147667	2116721407	5265892712	5675397394	177206826
66	E	607699	59841	135019	147686	1992185019	6445227042	6746091667	255228736
67	E	255669	59837	135001	147668	2104270243	5932223327	6294380578	168404008
68	E	600149	59229	200027	208612	1775380990	9538795305	9702607564	501939174
69	E	255669	59227	200002	208587	2097849779	8733418985	8981847297	328214816
70	E	526949	-175014	111858	207707	-6061249946	4440965605	7514048603	250919632
71	E	255669	-175116	111933	207833	-5933308599	4333134676	7347122365	178994513
72	E	526949	-175015	111840	207698	-6030148736	4991762655	7828179111	242917211
73	E	255669	-175117	111924	207829	-5904440406	4883933245	7662585755	171399977
74	E	520899	-172624	167761	240713	-6149754640	7535818759	9726666773	478670891
75	E	255669	-172727	167886	240874	-5868095896	7320152792	9381854099	335574725
76	E	523459	-175016	108063	205689	-6058909465	4299077803	7429162393	244261250
77	E	255669	-175116	108135	205813	-5933525250	4192496252	7265242372	173169754
78	E	523459	-175017	108046	205681	-6027828997	4829474981	7723894808	236540273
79	E	255669	-175117	108126	205809	-5904641246	4722894874	7561119245	165851933
80	E	517519	-172625	161771	236578	-6145142823	7276514957	9524203392	466184590
81	E	255669	-172727	161890	236734	-5868499968	7063347883	9183146258	324746929
82	E	607699	-59752	134802	147451	-2286310802	5362854913	5829873918	283061087
83	E	255669	-59804	134919	147579	-2101900036	5229102967	5635734345	193843555
84	E	607699	-59752	134777	147429	-2271947188	6015650881	6430380980	273657975
85	E	255669	-59804	134908	147570	-2090517674	5881901271	6242357464	184946391
86	E	600149	-59136	199673	208246	-2465235420	8935971388	9269788040	538813549
87	E	255669	-59194	199865	208446	-2092614657	8668460513	8917468461	361313852

Pagina 186

05/05/2000

99-cei

EUT - 5400 - C

SFORZI MASSIMI TRASMESSI ALLA FONDAZIONE

CONDIZIONE NORMALE

SFORZO ASSIALE MASSIMO

Condizione numero	Sforzo assiale [N]
8	627489

SFORZO ASSIALE MINIMO

Condizione numero	Sforzo assiale [N]
15	255669

TAGLIO TRASVERSALE MASSIMO

Condizione numero	Taglio [N]
4	198570

TAGLIO LONGITUDINALE MASSIMO

Condizione numero	Taglio [N]
8	8002

TAGLIO RISULTANTE MASSIMO

Condizione numero	Taglio [N]
4	198661

MOMENTO TRASVERSALE MASSIMO

Condizione numero	Momento [Nmm]
4	7049791744

MOMENTO LONGITUDINALE MASSIMO

Condizione numero	Momento [Nmm]
8	469928883

MOMENTO RISULTANTE MASSIMO

Condizione numero	Momento [Nmm]
4	7058189360

Pagina 187

05/05/2000

99-cei

EUT - 5400 - C

SFORZI MASSIMI TRASMESSI ALLA FONDAZIONE**CONDIZIONE ECCEZIONALE****SFORZO ASSIALE MASSIMO**

Condizione numero	Sforzo assiale [N]
28	614719

SFORZO ASSIALE MINIMO

Condizione numero	Sforzo assiale [N]
17	255669

TAGLIO TRASVERSALE MASSIMO

Condizione numero	Taglio [N]
16	193329

TAGLIO LONGITUDINALE MASSIMO

Condizione numero	Taglio [N]
68	200027

TAGLIO RISULTANTE MASSIMO

Condizione numero	Taglio [N]
56	241035

MOMENTO TRASVERSALE MASSIMO

Condizione numero	Momento [Nmm]
38	6851815703

MOMENTO LONGITUDINALE MASSIMO

Condizione numero	Momento [Nmm]
68	9538795305

MOMENTO RISULTANTE MASSIMO

Condizione numero	Momento [Nmm]
74	9726666773

Pagina 188

05/05/2000

99-cei

EUT - 5400 - C