

**Programma per la riqualificazione urbana e la sicurezza**

**ORISTANO EST**

PROGETTO DEFINITIVO

LAVORI DI VALORIZZAZIONE AREA IS ANTAS

- EX CARCERE MILITARE

COMUNE DI ORISTANO  
PROVINCIA DI ORISTANO

OGGETTO:  
RELAZIONE STRUTTURE CORPO "H" E  
CORPI "C1" - "C2"



ALLEGATO

15

ORISTANO  
GIU 2017

RESPONSABILE DEL PROCEDIMENTO:  
GEOM. LOCHI STEFANO

PROGETTISTI:

ING. ESPEDITO SCHINTU

ING. MARCELLO ANGIUONI

ARCH. MARIA GRAZIA SERRA

# RELAZIONE E CALCOLO DELLE STRUTTURE IN C.C.A.

Legge 05.11.1971 n. 1086

1.GENERALITA'

## RELAZIONE DI CALCOLO

INITIAL TYPE CALCULATION

Modello ITC.02  
del 28.07.2015

<b>ITC nr.</b> <i>Report nr.</i>	ITC 13C015 REV0	<b>Data</b> <i>Date</i>	
<b>Provincia di</b> <i>District</i>	Oristano	<b>Comune di</b> <i>Municipality</i>	Oristano
<b>Cliente</b> <i>Customer</i>	Comune di Oristano	<b>Produttore</b> <i>Manufacturer</i>	Comune di Oristano
<b>Commessa Cliente</b> <i>Shop Order Customer</i>	Comune di Oristano	<b>Commessa</b> <i>Shop Order</i>	0001/2017
<b>Cantiere</b> <i>Construction site</i>			
<b>Oggetto</b> <i>Object</i>	Calcoli statici struttura di copertura capannone H		
<b>Nominativo calcolatore</b> <i>Calculator name</i>	Ing. Marcello Angiuoni Ing. Schintu Espedito Arch. Serra Maria Grazia	<b>Timbro e firma</b> <i>Stamp and signature</i>	

## Annotazioni

Notes

La presente relazione di calcolo concerne la progettazione della struttura di copertura in legno lamellare del Capannone H da destinare a ----- sito nel comune di Oristano di proprietà della amministrazione comunale .

La struttura portante sottostante è costituita da muratura portante . su fondazione continua ..

<b>REV.</b>	<b>DATA</b> <i>Date:</i>	<b>DESCRIZIONE</b> <i>Description</i>	<b>VERIFICATO</b> <i>Verified</i>	<b>APPROVATO</b> <i>Approved</i>

## DESCRIZIONE DELLA STRUTTURA

*Structure description*

### NORMATIVA DI RIFERIMENTO

NORME TECNICHE PER LE COSTRUZIONI : (D.M. 14/01/2008)

Consiglio Superiore dei Lavori Pubblici  
Circolare 02/02/2009 n. 617 - Istruzioni per l'applicazione  
delle : <Norme Tecniche per le costruzioni> DM 14/01/2008>

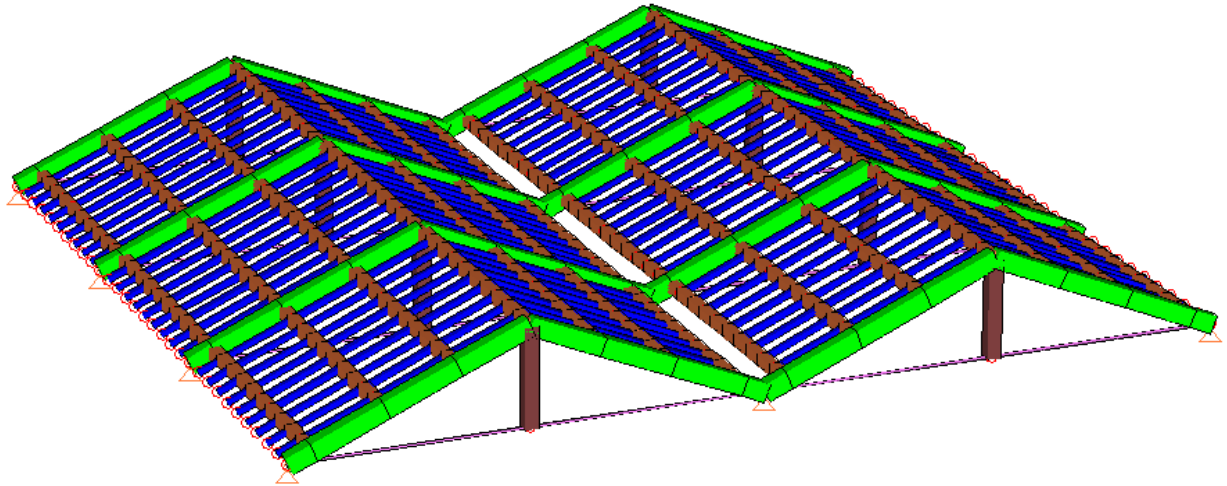
La struttura in accordo con il paragrafo 2.4.2. del D.M. 14.01.2008 è stata classificata in classe d'uso II ( Costruzioni il cui uso preveda normali affollamenti , senza contenuti pericolosi per l'ambiente e senza funzioni pubbliche e sociali essenziali ... ) ed è posto in Zona 4 secondo la classificazione sismica prevista dall'Ordinanza n. 3274 e s.m.i. ( S = N.C. precedente classificazione ) .

Pertanto in base a quanto stabilito con Deliberazione della Giunta Regionale del 30.03.2004 non è stata eseguita una progettazione antisismica , e nel rispetto del paragrafo 2.7. del D.M. 14.01.2008 , “ Per la costruzioni di tipo 1 e 2 , Classe d'uso I e II , limitatamente a siti ricadenti in Zona 4 , è ammesso il Metodo di verifica alle tensioni ammissibili . Per tali verifiche si deve fare riferimento alle Norme Tecniche di al D.M. LL.PP. 14.02.1992 , per le strutture in calcestruzzo e in acciaio ; al D.M. LL.PP. 20.11.1987 per le strutture in muratura e al D.M. LL.PP. 11.03.1988 per le opere e i sistemi geotecnici e alle Norme 14.01.2008.

Le Norme dette si debbono in tal caso applicare integralmente , salvo per i materiali e i prodotti , le azioni e il collaudo statico , per i quali valgono le prescrizioni riportate nelle presenti Norme Tecniche “ .

Le verifiche sono condotte nei confronti delle Tensioni Ammissibili .

**STRUTTURA**  
*Structure outline*



Le tensioni negli elementi pressoinflessi sono calcolate tenendo conto della anisotropia del materiale ,moltiplicando la tensione dovuta per il coefficiente :

$$c = \sigma_{camm}/\sigma_{famm}$$

$$\sigma_{camm} = 110 \text{ daN/cm} ; \quad \sigma_{famm} = 140 \text{ daN/cm}^2.$$

La struttura di copertura sarà costituita da capriate in legno lamellare con tirante orizzontale in acciaio e/o legno lamellare ,a due falde , con luci variabili in asse .

- la sovrastruttura di copertura è prevista in tegole tip Coppo sardo poggianti su orditura in legno ( assito ) e coibentazione in guaina bituminosa.

## **2) Materiali :**

La struttura portante della copertura sarà costituita da elementi in legno lamellare incollato e prefabbricato in stabilimento .

Le presenti prescrizioni fanno parte integrante degli elaborati esecutivi e condizionano il calcolo degli elementi strutturali .

**3) Scelta del legname :** gli elementi portanti sono costituita da lamelle di abete rosso scelte in base alla Normativa DIN 4074 .

**4) Preparazione delle lamelle :** le lamelle sono tagliate nel senso delle fibre ed essicate ad alta temperatura sia per eliminare i parassiti animali che per incrementare la resistenza e la durezza ; con un'umidità relativa residua del 10% +/- 3% , nel rispetto della Normativa DIN 1052 , sono sfilate a due metri e saldate con giunto a pettine secondo le DIN 68140 e di seguito perfettamente piallate per ottenere una completa adesione fra le stesse , onde evitare tensioni ulteriori e conseguenti deformazioni e fessurazioni .

L'incollaggio delle lamelle avviene a strati sovrapposti , mediante applicazione, su una sola faccia , di una quantità di colla sintetica alla resorcina , per interni ed esterni , in ragione di 0.5 daN/m<sup>2</sup> , con incollatrice a fili , per una distribuzione omogenea , in versione colata , colla più induritore conformemente alle DIN 68141 . Nella fase immediatamente successiva , le lamelle dovranno essere pressate

uniformemente ad una pressione maggiore di 8 daN/cm<sup>2</sup> secondo le DIN 1052 . Le travi così ottenute saranno GL24H (Ec5) o BS14(DIN 1052 ) , E = 110.000 daN/cm<sup>2</sup>.

**5) Protezione delle superfici** : onde proteggere tutte le parti lignee dagli agenti atmosferici o comunque dagli attacchi dei parassiti vegetali e dagli insetti Xilofagi ,tutte le superfici dovranno essere trattate con prodotti specifici quali Bayer o similari secondo le DIN 68800 .

**6) Carpenterie e connessioni metalliche** : gli accessori metallici dovranno essere in acciaio Fe37 B salvo prescrizione specifica ,con saldature a completo ripristino , trattate con zincatura a caldo con antiruggine specifico .

Il calcolo dei parametri statici seguiranno le indicazioni delle CNR 10011. I chiodi ed i bulloni per la formazione dei giunti e dei collegamenti seguiranno le DIN 1052.

**7) Appoggi metallici fissi e scorrevoli** : le parti degli apparecchi d'appoggio che trasmettono pressioni per contatto , devono essere eseguite con acciaio fuso Fe G 520 UNI 3518 fucinato , oppure mediante saldatura di elementi in acciaio. Le pressioni di contatto si calcolano con le formule di herzt per i casi di più frequente impiego .

La pressione di contatto deve risultare :

per contatto puntiforme  $\sigma \leq 5.5 \sigma_{adm} = (TA)$

per contatto lineare  $\sigma \leq 4.0 \sigma_{adm}$

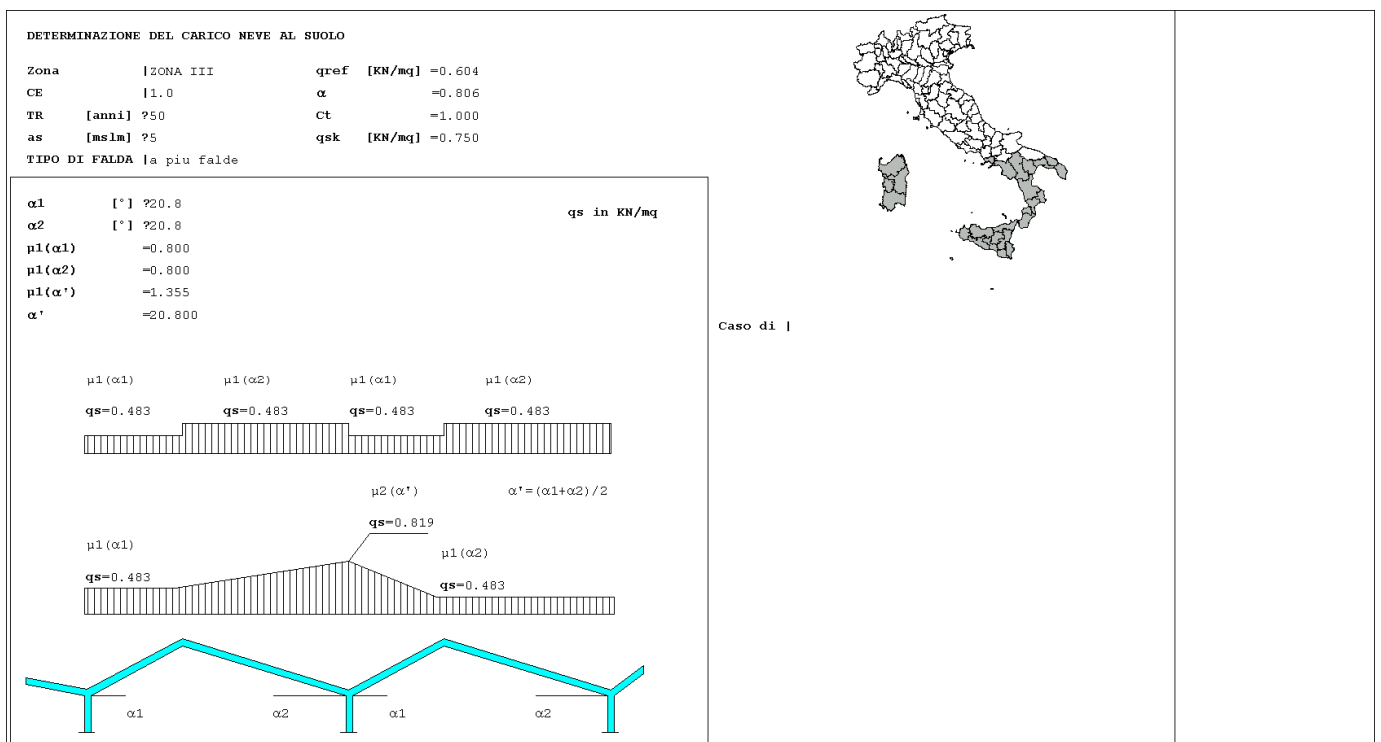
per contatto superficiale mediante piastre di limitate estensioni rispetto alle dimensioni dell'elemento strutturale :  $\sigma \leq 1.35 \sigma_{adm}$ .

Gli apparecchi d'appoggio mobili in acciaio devono essere provvisti di dispositivi guida ,allo scopo, di garantire il loro corretto movimento , e di dispositivi di arresto qualora il caso richieda ,comunque dovrà essere certificato dal produttore .

## 8) ANALISI DEI CARICHI :

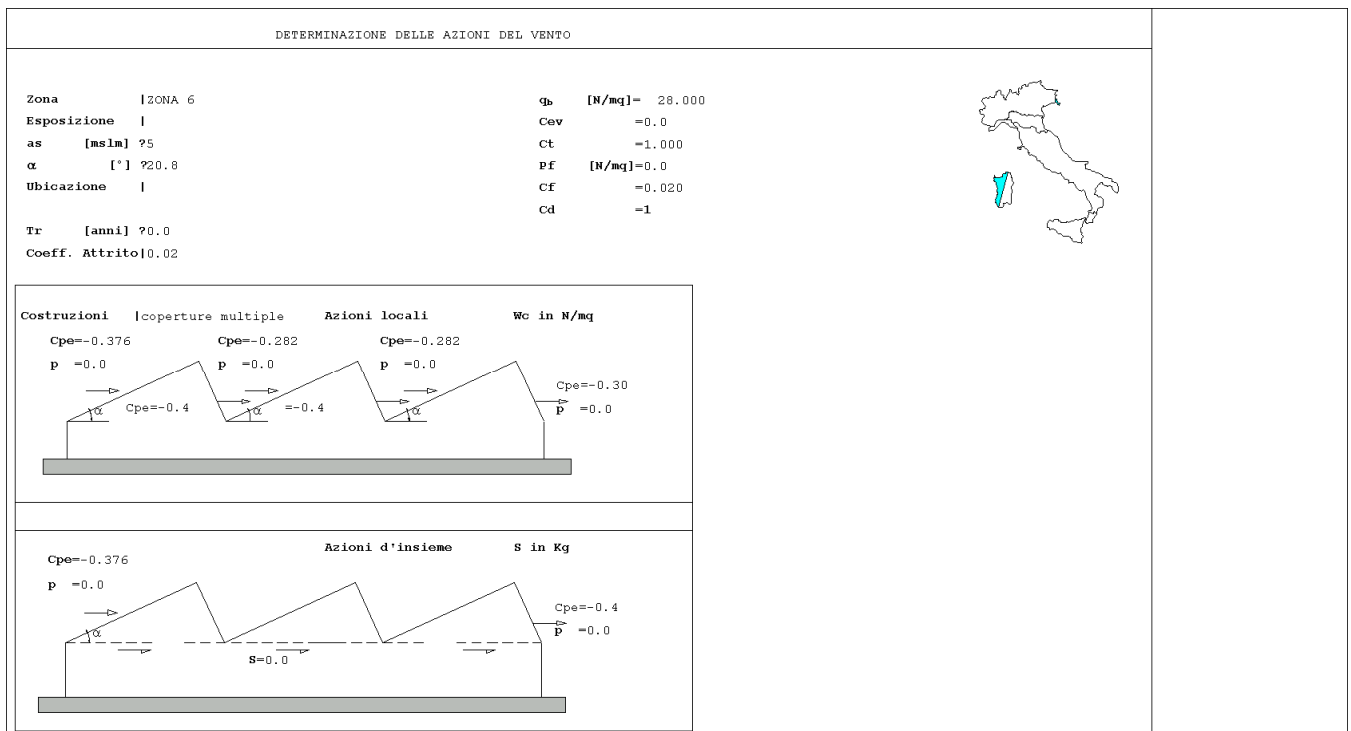
Secondo le **NORME TECNICHE** per le costruzioni ( come da S.O. n. 159 in G.U. 23 Settembre 2005 n. 22 ) : “  *Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi “ e “ Istruzioni per l’applicazione delle “ Norme Tecniche per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi “*

### 8.1 ) NEVE : zona III





## 8.2.) VENTO :



Non si considera l'azione del vento in quanto induce un'azione negativa .

## 9. CAPRIATA COPERTURA

Il capanone H ,delle dimensioni esterne di m 14.61 x 21.11 , è stato dificato con una struttura portante in muratura in pietra per uno spessore di cm 42 .

L'altezza interna del fabricato sarà di mt.3.81 sotto catena e mt. 5.39 al colmo .

La struttura di copertura è costituita da due capriate in legno lamellare poggianti internamente su pilastri in muratura di mattoni pieni e, lateralmente su opportuno cordolo in c.c.a. su muratura portante .

Le capriate , poste ad un interasse di circa mt. 4.00 sono di sostegno ad una prima orditura di correnti che a loro volta sostengono gli arcarecci . Su questi ultimi si porrà un tavolato dello spessore di mm 25 , l'impermeabilizzazione , la coibentazione e infine la copertura vera e propria in tegole tipo coppo sardo .

## 9.1.TAVOLATO

Interasse 44 cm ; p = 38 % ;  $\alpha = 20^{\circ},80$

### a) Analisi dei carichi permanenti

- copertura .....	60 daN/mq
- assito .....	14 daN/mq
- coibentazione .....	5 daN/mq
- impermeabilizzazione .....	10 daN/mq
TOTALE PERMANENTI	89 daN/mq

### b) Analisi dei carichi accidentali

- neve .....	66 daN/mq
TOTALE Accidentali	q = 66 daN/mq

CARICO TOTALE 155 daN/mq

Per 1 ml di tavolato si ha q = 155 daN/m

## SCHEMA STATICO

Trave appoggiata agli estremi con carico ripartito :

$$L = 0.44 \text{ m} ; M_{\max.} = (1/8) * q * L^2 = 3.76 \text{ daNm} = 376 \text{ daNcm} .$$

Ipotizzando un tavolato dello spessore di 25 mm = 2.5 cm , per una larghezza di 1m si ha :

$$W = 104.17 \text{ cm}^3 ; J = 130.20 \text{ cm}^4 ;$$

## VERIFICA

$$\sigma_{\max} = M/W = 3.60 \text{ daN/cm}^2 < \sigma_{\text{amm}}$$

$$f_{\max.} = (5/384)*q*L^4/(E*J) = 0.01 \text{ cm} < f_{\text{amm}} = L/300 = 44/300 = 0.15 \text{ cm} .$$

## 9.2.ARCARECCI.

Interasse 44 cm ;  $p = 38\%$  ;  $\alpha = 20^{\circ},80$

### c) Analisi dei carichi permanenti

- copertura .....	60 daN/mq
- assito .....	14 daN/mq
- correnti.....	3 daN/mq
- coibentazione .....	10 daN/mq
- impermeabilizzazione .....	10 daN/mq
TOTALE PERMANENTI	97 daN/mq

### d) Analisi dei carichi accidentali

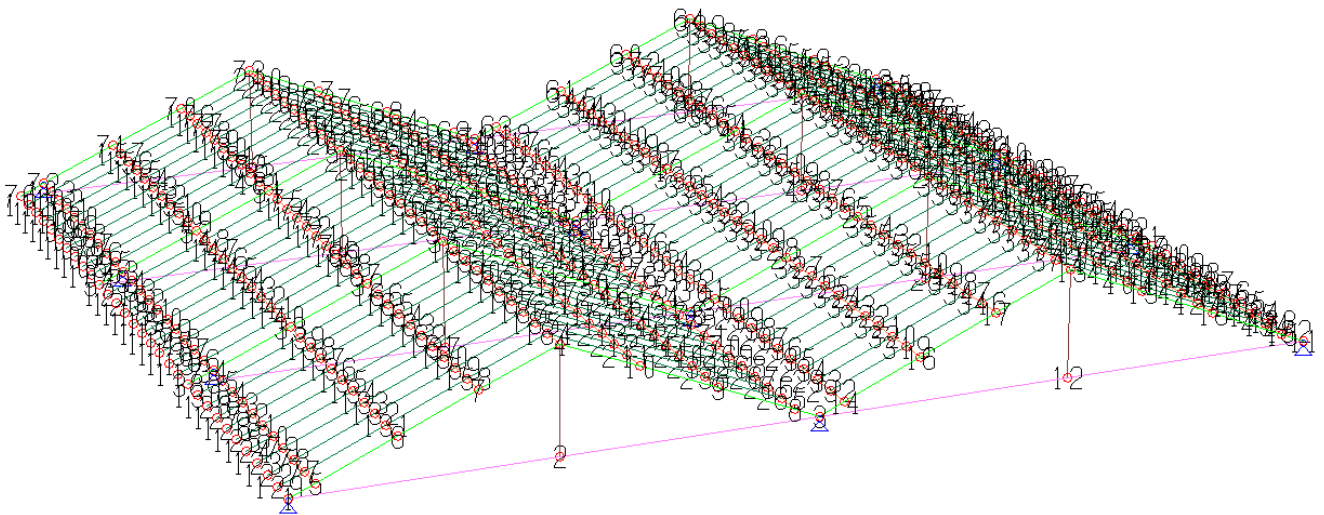
- $q_{\max}$ neve .....	82 daN/mq
- $q_{\min}$ neve .....	48 daN/mq

## 10. STAMPA DEI DATI DI PROGETTO

### INTESTAZIONE E DATI CARATTERISTICI DELLA STRUTTURA

Nome dell'archivio di lavoro	Calcolo struttura copertura capannone H
Intestazione del lavoro	Copertura L.L.
Tipo di struttura	Nello Spazio
Tipo di analisi	Statica
Tipo di soluzione	Lineare
Unita' di misura delle forze	kg
Unita' di misura delle lunghezze	cm

### 10. NODI



## NODI DEL MODELLO

Nodo	Coord. X	Coord. Y	Coord. Z	Temper.	uX	uY	uZ	rX	rY	rZ
1	0.000	0.000	0.000	0.000	0	0	0	0	0	0
2	342.000	0.000	0.000	0.000	0	0	0	0	0	0
3	684.000	0.000	0.000	0.000	0	0	0	0	0	0
4	342.000	0.000	144.000	0.000	0	0	0	0	0	0
5	33.510	0.000	14.140	0.000	0	0	0	0	0	0
6	136.340	0.000	57.427	0.000	0	0	0	0	0	0
7	239.170	0.000	100.713	0.000	0	0	0	0	0	0
8	650.490	0.000	14.140	0.000	0	0	0	0	0	0
9	547.660	0.000	57.427	0.000	0	0	0	0	0	0
10	444.830	0.000	100.713	0.000	0	0	0	0	0	0
11	1368.000	0.000	0.000	0.000	0	0	0	0	0	0
12	1026.000	0.000	0.000	0.000	0	0	0	0	0	0
13	1026.000	0.000	144.000	0.000	0	0	0	0	0	0
14	717.510	0.000	14.140	0.000	0	0	0	0	0	0
15	1334.490	0.000	14.140	0.000	0	0	0	0	0	0
16	820.340	0.000	57.427	0.000	0	0	0	0	0	0
17	923.170	0.000	100.713	0.000	0	0	0	0	0	0
18	1231.660	0.000	57.427	0.000	0	0	0	0	0	0
19	1128.830	0.000	100.713	0.000	0	0	0	0	0	0
20	1128.830	400.000	100.713	0.000	0	0	0	0	0	0
21	1231.660	400.000	57.427	0.000	0	0	0	0	0	0
22	923.170	400.000	100.713	0.000	0	0	0	0	0	0
23	820.340	400.000	57.427	0.000	0	0	0	0	0	0
24	1334.490	400.000	14.140	0.000	0	0	0	0	0	0
25	717.510	400.000	14.140	0.000	0	0	0	0	0	0
26	1026.000	400.000	144.000	0.000	0	0	0	0	0	0
27	1368.000	400.000	0.000	0.000	0	0	0	0	0	0
28	1026.000	400.000	0.000	0.000	0	0	0	0	0	0
29	444.830	400.000	100.713	0.000	0	0	0	0	0	0
30	547.660	400.000	57.427	0.000	0	0	0	0	0	0
31	650.490	400.000	14.140	0.000	0	0	0	0	0	0
32	239.170	400.000	100.713	0.000	0	0	0	0	0	0
33	136.340	400.000	57.427	0.000	0	0	0	0	0	0
34	33.510	400.000	14.140	0.000	0	0	0	0	0	0
35	342.000	400.000	144.000	0.000	0	0	0	0	0	0
36	684.000	400.000	0.000	0.000	0	0	0	0	0	0
37	342.000	400.000	0.000	0.000	0	0	0	0	0	0
38	0.000	400.000	0.000	0.000	0	0	0	0	0	0
39	1128.830	800.000	100.713	0.000	0	0	0	0	0	0
40	1231.660	800.000	57.427	0.000	0	0	0	0	0	0
41	923.170	800.000	100.713	0.000	0	0	0	0	0	0
42	820.340	800.000	57.427	0.000	0	0	0	0	0	0
43	1334.490	800.000	14.140	0.000	0	0	0	0	0	0
44	717.510	800.000	14.140	0.000	0	0	0	0	0	0
45	1026.000	800.000	144.000	0.000	0	0	0	0	0	0
46	1368.000	800.000	0.000	0.000	0	0	0	0	0	0
47	1026.000	800.000	0.000	0.000	0	0	0	0	0	0
48	444.830	800.000	100.713	0.000	0	0	0	0	0	0
49	547.660	800.000	57.427	0.000	0	0	0	0	0	0
50	650.490	800.000	14.140	0.000	0	0	0	0	0	0
51	239.170	800.000	100.713	0.000	0	0	0	0	0	0
52	136.340	800.000	57.427	0.000	0	0	0	0	0	0
53	33.510	800.000	14.140	0.000	0	0	0	0	0	0
54	342.000	800.000	144.000	0.000	0	0	0	0	0	0
55	684.000	800.000	0.000	0.000	0	0	0	0	0	0
56	342.000	800.000	0.000	0.000	0	0	0	0	0	0

57	0.000	800.000	0.000	0.000	0	0	0	0	0	0
58	1128.830	1200.000	100.713	0.000	0	0	0	0	0	0
59	1231.660	1200.000	57.427	0.000	0	0	0	0	0	0
60	923.170	1200.000	100.713	0.000	0	0	0	0	0	0
61	820.340	1200.000	57.427	0.000	0	0	0	0	0	0
62	1334.490	1200.000	14.140	0.000	0	0	0	0	0	0
63	717.510	1200.000	14.140	0.000	0	0	0	0	0	0
64	1026.000	1200.000	144.000	0.000	0	0	0	0	0	0
65	1368.000	1200.000	0.000	0.000	0	0	0	0	0	0
66	1026.000	1200.000	0.000	0.000	0	0	0	0	0	0
67	444.830	1200.000	100.713	0.000	0	0	0	0	0	0
68	547.660	1200.000	57.427	0.000	0	0	0	0	0	0
69	650.490	1200.000	14.140	0.000	0	0	0	0	0	0
70	239.170	1200.000	100.713	0.000	0	0	0	0	0	0
71	136.340	1200.000	57.427	0.000	0	0	0	0	0	0
72	33.510	1200.000	14.140	0.000	0	0	0	0	0	0
73	342.000	1200.000	144.000	0.000	0	0	0	0	0	0
74	684.000	1200.000	0.000	0.000	0	0	0	0	0	0
75	342.000	1200.000	0.000	0.000	0	0	0	0	0	0
76	0.000	1200.000	0.000	0.000	0	0	0	0	0	0
77	33.510	40.000	14.140	0.000	0	0	0	0	0	0
78	33.510	80.000	14.140	0.000	0	0	0	0	0	0
79	33.510	120.000	14.140	0.000	0	0	0	0	0	0
80	33.510	160.000	14.140	0.000	0	0	0	0	0	0
81	33.510	200.000	14.140	0.000	0	0	0	0	0	0
82	33.510	240.000	14.140	0.000	0	0	0	0	0	0
83	33.510	280.000	14.140	0.000	0	0	0	0	0	0
84	33.510	320.000	14.140	0.000	0	0	0	0	0	0
85	33.510	360.000	14.140	0.000	0	0	0	0	0	0
86	33.510	440.000	14.140	0.000	0	0	0	0	0	0
87	33.510	480.000	14.140	0.000	0	0	0	0	0	0
88	33.510	520.000	14.140	0.000	0	0	0	0	0	0
89	33.510	560.000	14.140	0.000	0	0	0	0	0	0
90	33.510	600.000	14.140	0.000	0	0	0	0	0	0
91	33.510	640.000	14.140	0.000	0	0	0	0	0	0
92	33.510	680.000	14.140	0.000	0	0	0	0	0	0
93	33.510	720.000	14.140	0.000	0	0	0	0	0	0
94	33.510	760.000	14.140	0.000	0	0	0	0	0	0
95	33.510	840.000	14.140	0.000	0	0	0	0	0	0
96	33.510	880.000	14.140	0.000	0	0	0	0	0	0
97	33.510	920.000	14.140	0.000	0	0	0	0	0	0
98	33.510	960.000	14.140	0.000	0	0	0	0	0	0
99	33.510	1000.000	14.140	0.000	0	0	0	0	0	0
100	33.510	1040.000	14.140	0.000	0	0	0	0	0	0
101	33.510	1080.000	14.140	0.000	0	0	0	0	0	0
102	33.510	1120.000	14.140	0.000	0	0	0	0	0	0
103	33.510	1160.000	14.140	0.000	0	0	0	0	0	0
104	0.000	840.000	0.000	0.000	0	0	0	0	0	0
105	0.000	880.000	0.000	0.000	0	0	0	0	0	0
106	0.000	920.000	0.000	0.000	0	0	0	0	0	0
107	0.000	960.000	0.000	0.000	0	0	0	0	0	0
108	0.000	1000.000	0.000	0.000	0	0	0	0	0	0
109	0.000	1040.000	0.000	0.000	0	0	0	0	0	0
110	0.000	1080.000	0.000	0.000	0	0	0	0	0	0
111	0.000	1120.000	0.000	0.000	0	0	0	0	0	0
112	0.000	1160.000	0.000	0.000	0	0	0	0	0	0
113	0.000	520.000	0.000	0.000	0	0	0	0	0	0
114	0.000	560.000	0.000	0.000	0	0	0	0	0	0
115	0.000	600.000	0.000	0.000	0	0	0	0	0	0
116	0.000	640.000	0.000	0.000	0	0	0	0	0	0

117	0.000	440.000	0.000	0.000	0	0	0	0	0	0
118	0.000	680.000	0.000	0.000	0	0	0	0	0	0
119	0.000	480.000	0.000	0.000	0	0	0	0	0	0
120	0.000	720.000	0.000	0.000	0	0	0	0	0	0
121	0.000	760.000	0.000	0.000	0	0	0	0	0	0
122	0.000	80.000	0.000	0.000	0	0	0	0	0	0
123	0.000	120.000	0.000	0.000	0	0	0	0	0	0
124	0.000	160.000	0.000	0.000	0	0	0	0	0	0
125	0.000	200.000	0.000	0.000	0	0	0	0	0	0
126	0.000	240.000	0.000	0.000	0	0	0	0	0	0
127	0.000	280.000	0.000	0.000	0	0	0	0	0	0
128	0.000	320.000	0.000	0.000	0	0	0	0	0	0
129	0.000	40.000	0.000	0.000	0	0	0	0	0	0
130	0.000	360.000	0.000	0.000	0	0	0	0	0	0
131	136.340	40.000	57.427	0.000	0	0	0	0	0	0
132	136.340	80.000	57.427	0.000	0	0	0	0	0	0
133	136.340	120.000	57.427	0.000	0	0	0	0	0	0
134	136.340	160.000	57.427	0.000	0	0	0	0	0	0
135	136.340	200.000	57.427	0.000	0	0	0	0	0	0
136	136.340	240.000	57.427	0.000	0	0	0	0	0	0
137	136.340	280.000	57.427	0.000	0	0	0	0	0	0
138	136.340	320.000	57.427	0.000	0	0	0	0	0	0
139	136.340	360.000	57.427	0.000	0	0	0	0	0	0
140	136.340	440.000	57.427	0.000	0	0	0	0	0	0
141	136.340	480.000	57.427	0.000	0	0	0	0	0	0
142	136.340	520.000	57.427	0.000	0	0	0	0	0	0
143	136.340	560.000	57.427	0.000	0	0	0	0	0	0
144	136.340	600.000	57.427	0.000	0	0	0	0	0	0
145	136.340	640.000	57.427	0.000	0	0	0	0	0	0
146	136.340	680.000	57.427	0.000	0	0	0	0	0	0
147	136.340	720.000	57.427	0.000	0	0	0	0	0	0
148	136.340	760.000	57.427	0.000	0	0	0	0	0	0
149	136.340	840.000	57.427	0.000	0	0	0	0	0	0
150	136.340	880.000	57.427	0.000	0	0	0	0	0	0
151	136.340	920.000	57.427	0.000	0	0	0	0	0	0
152	136.340	960.000	57.427	0.000	0	0	0	0	0	0
153	136.340	1000.000	57.427	0.000	0	0	0	0	0	0
154	136.340	1040.000	57.427	0.000	0	0	0	0	0	0
155	136.340	1080.000	57.427	0.000	0	0	0	0	0	0
156	136.340	1120.000	57.427	0.000	0	0	0	0	0	0
157	136.340	1160.000	57.427	0.000	0	0	0	0	0	0
158	239.170	40.000	100.713	0.000	0	0	0	0	0	0
159	239.170	80.000	100.713	0.000	0	0	0	0	0	0
160	239.170	120.000	100.713	0.000	0	0	0	0	0	0
161	239.170	160.000	100.713	0.000	0	0	0	0	0	0
162	239.170	200.000	100.713	0.000	0	0	0	0	0	0
163	239.170	240.000	100.713	0.000	0	0	0	0	0	0
164	239.170	280.000	100.713	0.000	0	0	0	0	0	0
165	239.170	320.000	100.713	0.000	0	0	0	0	0	0
166	239.170	360.000	100.713	0.000	0	0	0	0	0	0
167	239.170	440.000	100.713	0.000	0	0	0	0	0	0
168	239.170	480.000	100.713	0.000	0	0	0	0	0	0
169	239.170	520.000	100.713	0.000	0	0	0	0	0	0
170	239.170	560.000	100.713	0.000	0	0	0	0	0	0
171	239.170	600.000	100.713	0.000	0	0	0	0	0	0
172	239.170	640.000	100.713	0.000	0	0	0	0	0	0
173	239.170	680.000	100.713	0.000	0	0	0	0	0	0
174	239.170	720.000	100.713	0.000	0	0	0	0	0	0
175	239.170	760.000	100.713	0.000	0	0	0	0	0	0
176	239.170	1160.000	100.713	0.000	0	0	0	0	0	0



177	239.170	1120.000	100.713	0.000	0	0	0	0	0	0
178	239.170	1080.000	100.713	0.000	0	0	0	0	0	0
179	239.170	1040.000	100.713	0.000	0	0	0	0	0	0
180	239.170	1000.000	100.713	0.000	0	0	0	0	0	0
181	239.170	960.000	100.713	0.000	0	0	0	0	0	0
182	239.170	920.000	100.713	0.000	0	0	0	0	0	0
183	239.170	880.000	100.713	0.000	0	0	0	0	0	0
184	342.000	40.000	144.000	0.000	0	0	0	0	0	0
185	342.000	80.000	144.000	0.000	0	0	0	0	0	0
186	342.000	120.000	144.000	0.000	0	0	0	0	0	0
187	342.000	160.000	144.000	0.000	0	0	0	0	0	0
188	342.000	200.000	144.000	0.000	0	0	0	0	0	0
189	342.000	240.000	144.000	0.000	0	0	0	0	0	0
190	342.000	280.000	144.000	0.000	0	0	0	0	0	0
191	342.000	320.000	144.000	0.000	0	0	0	0	0	0
192	342.000	360.000	144.000	0.000	0	0	0	0	0	0
193	342.000	440.000	144.000	0.000	0	0	0	0	0	0
194	342.000	480.000	144.000	0.000	0	0	0	0	0	0
195	342.000	520.000	144.000	0.000	0	0	0	0	0	0
196	342.000	560.000	144.000	0.000	0	0	0	0	0	0
197	342.000	600.000	144.000	0.000	0	0	0	0	0	0
198	342.000	640.000	144.000	0.000	0	0	0	0	0	0
199	342.000	680.000	144.000	0.000	0	0	0	0	0	0
200	342.000	720.000	144.000	0.000	0	0	0	0	0	0
201	342.000	760.000	144.000	0.000	0	0	0	0	0	0
202	342.000	840.000	144.000	0.000	0	0	0	0	0	0
203	342.000	880.000	144.000	0.000	0	0	0	0	0	0
204	342.000	920.000	144.000	0.000	0	0	0	0	0	0
205	342.000	960.000	144.000	0.000	0	0	0	0	0	0
206	342.000	1000.000	144.000	0.000	0	0	0	0	0	0
207	342.000	1040.000	144.000	0.000	0	0	0	0	0	0
208	342.000	1080.000	144.000	0.000	0	0	0	0	0	0
209	342.000	1120.000	144.000	0.000	0	0	0	0	0	0
210	342.000	1160.000	144.000	0.000	0	0	0	0	0	0
211	444.830	40.000	100.713	0.000	0	0	0	0	0	0
212	444.830	80.000	100.713	0.000	0	0	0	0	0	0
213	444.830	120.000	100.713	0.000	0	0	0	0	0	0
214	444.830	160.000	100.713	0.000	0	0	0	0	0	0
215	444.830	200.000	100.713	0.000	0	0	0	0	0	0
216	444.830	240.000	100.713	0.000	0	0	0	0	0	0
217	444.830	280.000	100.713	0.000	0	0	0	0	0	0
218	444.830	320.000	100.713	0.000	0	0	0	0	0	0
219	444.830	360.000	100.713	0.000	0	0	0	0	0	0
220	444.830	440.000	100.713	0.000	0	0	0	0	0	0
221	444.830	480.000	100.713	0.000	0	0	0	0	0	0
222	444.830	520.000	100.713	0.000	0	0	0	0	0	0
223	444.830	560.000	100.713	0.000	0	0	0	0	0	0
224	444.830	600.000	100.713	0.000	0	0	0	0	0	0
225	444.830	640.000	100.713	0.000	0	0	0	0	0	0
226	444.830	680.000	100.713	0.000	0	0	0	0	0	0
227	444.830	720.000	100.713	0.000	0	0	0	0	0	0
228	444.830	760.000	100.713	0.000	0	0	0	0	0	0
229	444.830	840.000	100.713	0.000	0	0	0	0	0	0
230	444.830	880.000	100.713	0.000	0	0	0	0	0	0
231	444.830	920.000	100.713	0.000	0	0	0	0	0	0
232	444.830	960.000	100.713	0.000	0	0	0	0	0	0
233	444.830	1000.000	100.713	0.000	0	0	0	0	0	0
234	444.830	1040.000	100.713	0.000	0	0	0	0	0	0
235	444.830	1080.000	100.713	0.000	0	0	0	0	0	0
236	444.830	1120.000	100.713	0.000	0	0	0	0	0	0

237	444.830	1160.000	100.713	0.000	0	0	0	0	0	0
238	547.660	40.000	57.427	0.000	0	0	0	0	0	0
239	547.660	80.000	57.427	0.000	0	0	0	0	0	0
240	547.660	120.000	57.427	0.000	0	0	0	0	0	0
241	547.660	160.000	57.427	0.000	0	0	0	0	0	0
242	547.660	200.000	57.427	0.000	0	0	0	0	0	0
243	547.660	240.000	57.427	0.000	0	0	0	0	0	0
244	547.660	280.000	57.427	0.000	0	0	0	0	0	0
245	547.660	320.000	57.427	0.000	0	0	0	0	0	0
246	547.660	360.000	57.427	0.000	0	0	0	0	0	0
247	547.660	440.000	57.427	0.000	0	0	0	0	0	0
248	547.660	480.000	57.427	0.000	0	0	0	0	0	0
249	547.660	520.000	57.427	0.000	0	0	0	0	0	0
250	547.660	560.000	57.427	0.000	0	0	0	0	0	0
251	547.660	600.000	57.427	0.000	0	0	0	0	0	0
252	547.660	640.000	57.427	0.000	0	0	0	0	0	0
253	547.660	680.000	57.427	0.000	0	0	0	0	0	0
254	547.660	720.000	57.427	0.000	0	0	0	0	0	0
255	547.660	760.000	57.427	0.000	0	0	0	0	0	0
256	547.660	840.000	57.427	0.000	0	0	0	0	0	0
257	547.660	880.000	57.427	0.000	0	0	0	0	0	0
258	547.660	920.000	57.427	0.000	0	0	0	0	0	0
259	547.660	960.000	57.427	0.000	0	0	0	0	0	0
260	547.660	1000.000	57.427	0.000	0	0	0	0	0	0
261	547.660	1040.000	57.427	0.000	0	0	0	0	0	0
262	547.660	1080.000	57.427	0.000	0	0	0	0	0	0
263	547.660	1120.000	57.427	0.000	0	0	0	0	0	0
264	547.660	1160.000	57.427	0.000	0	0	0	0	0	0
265	650.490	40.000	14.140	0.000	0	0	0	0	0	0
266	650.490	80.000	14.140	0.000	0	0	0	0	0	0
267	650.490	120.000	14.140	0.000	0	0	0	0	0	0
268	650.490	160.000	14.140	0.000	0	0	0	0	0	0
269	650.490	200.000	14.140	0.000	0	0	0	0	0	0
270	650.490	240.000	14.140	0.000	0	0	0	0	0	0
271	650.490	280.000	14.140	0.000	0	0	0	0	0	0
272	650.490	320.000	14.140	0.000	0	0	0	0	0	0
273	650.490	360.000	14.140	0.000	0	0	0	0	0	0
274	650.490	440.000	14.140	0.000	0	0	0	0	0	0
275	650.490	480.000	14.140	0.000	0	0	0	0	0	0
276	650.490	520.000	14.140	0.000	0	0	0	0	0	0
277	650.490	560.000	14.140	0.000	0	0	0	0	0	0
278	650.490	600.000	14.140	0.000	0	0	0	0	0	0
279	650.490	640.000	14.140	0.000	0	0	0	0	0	0
280	650.490	680.000	14.140	0.000	0	0	0	0	0	0
281	650.490	720.000	14.140	0.000	0	0	0	0	0	0
282	650.490	760.000	14.140	0.000	0	0	0	0	0	0
283	650.490	840.000	14.140	0.000	0	0	0	0	0	0
284	650.490	880.000	14.140	0.000	0	0	0	0	0	0
285	650.490	920.000	14.140	0.000	0	0	0	0	0	0
286	650.490	960.000	14.140	0.000	0	0	0	0	0	0
287	650.490	1000.000	14.140	0.000	0	0	0	0	0	0
288	650.490	1040.000	14.140	0.000	0	0	0	0	0	0
289	650.490	1080.000	14.140	0.000	0	0	0	0	0	0
290	650.490	1120.000	14.140	0.000	0	0	0	0	0	0
291	650.490	1160.000	14.140	0.000	0	0	0	0	0	0
292	717.510	40.000	14.140	0.000	0	0	0	0	0	0
293	717.510	80.000	14.140	0.000	0	0	0	0	0	0
294	717.510	120.000	14.140	0.000	0	0	0	0	0	0
295	717.510	160.000	14.140	0.000	0	0	0	0	0	0
296	717.510	200.000	14.140	0.000	0	0	0	0	0	0

297	717.510	240.000	14.140	0.000	0	0	0	0	0	0
298	717.510	280.000	14.140	0.000	0	0	0	0	0	0
299	717.510	320.000	14.140	0.000	0	0	0	0	0	0
300	717.510	360.000	14.140	0.000	0	0	0	0	0	0
301	717.510	440.000	14.140	0.000	0	0	0	0	0	0
302	717.510	480.000	14.140	0.000	0	0	0	0	0	0
303	717.510	520.000	14.140	0.000	0	0	0	0	0	0
304	717.510	560.000	14.140	0.000	0	0	0	0	0	0
305	717.510	600.000	14.140	0.000	0	0	0	0	0	0
306	717.510	640.000	14.140	0.000	0	0	0	0	0	0
307	717.510	680.000	14.140	0.000	0	0	0	0	0	0
308	717.510	720.000	14.140	0.000	0	0	0	0	0	0
309	717.510	760.000	14.140	0.000	0	0	0	0	0	0
310	717.510	840.000	14.140	0.000	0	0	0	0	0	0
311	717.510	880.000	14.140	0.000	0	0	0	0	0	0
312	717.510	920.000	14.140	0.000	0	0	0	0	0	0
313	717.510	960.000	14.140	0.000	0	0	0	0	0	0
314	717.510	1000.000	14.140	0.000	0	0	0	0	0	0
315	717.510	1040.000	14.140	0.000	0	0	0	0	0	0
316	717.510	1080.000	14.140	0.000	0	0	0	0	0	0
317	717.510	1120.000	14.140	0.000	0	0	0	0	0	0
318	717.510	1160.000	14.140	0.000	0	0	0	0	0	0
319	820.340	40.000	57.427	0.000	0	0	0	0	0	0
320	820.340	80.000	57.427	0.000	0	0	0	0	0	0
321	820.340	120.000	57.427	0.000	0	0	0	0	0	0
322	820.340	160.000	57.427	0.000	0	0	0	0	0	0
323	820.340	200.000	57.427	0.000	0	0	0	0	0	0
324	820.340	240.000	57.427	0.000	0	0	0	0	0	0
325	820.340	280.000	57.427	0.000	0	0	0	0	0	0
326	820.340	320.000	57.427	0.000	0	0	0	0	0	0
327	820.340	360.000	57.427	0.000	0	0	0	0	0	0
328	820.340	440.000	57.427	0.000	0	0	0	0	0	0
329	820.340	480.000	57.427	0.000	0	0	0	0	0	0
330	820.340	520.000	57.427	0.000	0	0	0	0	0	0
331	820.340	560.000	57.427	0.000	0	0	0	0	0	0
332	820.340	600.000	57.427	0.000	0	0	0	0	0	0
333	820.340	640.000	57.427	0.000	0	0	0	0	0	0
334	820.340	680.000	57.427	0.000	0	0	0	0	0	0
335	820.340	720.000	57.427	0.000	0	0	0	0	0	0
336	820.340	760.000	57.427	0.000	0	0	0	0	0	0
337	820.340	840.000	57.427	0.000	0	0	0	0	0	0
338	820.340	880.000	57.427	0.000	0	0	0	0	0	0
339	820.340	920.000	57.427	0.000	0	0	0	0	0	0
340	820.340	960.000	57.427	0.000	0	0	0	0	0	0
341	820.340	1000.000	57.427	0.000	0	0	0	0	0	0
342	820.340	1040.000	57.427	0.000	0	0	0	0	0	0
343	820.340	1080.000	57.427	0.000	0	0	0	0	0	0
344	820.340	1120.000	57.427	0.000	0	0	0	0	0	0
345	820.340	1160.000	57.427	0.000	0	0	0	0	0	0
346	923.170	40.000	100.713	0.000	0	0	0	0	0	0
347	923.170	80.000	100.713	0.000	0	0	0	0	0	0
348	923.170	120.000	100.713	0.000	0	0	0	0	0	0
349	923.170	160.000	100.713	0.000	0	0	0	0	0	0
350	923.170	200.000	100.713	0.000	0	0	0	0	0	0
351	923.170	240.000	100.713	0.000	0	0	0	0	0	0
352	923.170	280.000	100.713	0.000	0	0	0	0	0	0
353	923.170	320.000	100.713	0.000	0	0	0	0	0	0
354	923.170	360.000	100.713	0.000	0	0	0	0	0	0
355	923.170	440.000	100.713	0.000	0	0	0	0	0	0
356	923.170	480.000	100.713	0.000	0	0	0	0	0	0

357	923.170	520.000	100.713	0.000	0	0	0	0	0	0
358	923.170	560.000	100.713	0.000	0	0	0	0	0	0
359	923.170	600.000	100.713	0.000	0	0	0	0	0	0
360	923.170	640.000	100.713	0.000	0	0	0	0	0	0
361	923.170	680.000	100.713	0.000	0	0	0	0	0	0
362	923.170	720.000	100.713	0.000	0	0	0	0	0	0
363	923.170	760.000	100.713	0.000	0	0	0	0	0	0
364	923.170	840.000	100.713	0.000	0	0	0	0	0	0
365	923.170	880.000	100.713	0.000	0	0	0	0	0	0
366	923.170	920.000	100.713	0.000	0	0	0	0	0	0
367	923.170	960.000	100.713	0.000	0	0	0	0	0	0
368	923.170	1000.000	100.713	0.000	0	0	0	0	0	0
369	923.170	1040.000	100.713	0.000	0	0	0	0	0	0
370	923.170	1080.000	100.713	0.000	0	0	0	0	0	0
371	923.170	1120.000	100.713	0.000	0	0	0	0	0	0
372	923.170	1160.000	100.713	0.000	0	0	0	0	0	0
373	1026.000	40.000	144.000	0.000	0	0	0	0	0	0
374	1026.000	80.000	144.000	0.000	0	0	0	0	0	0
375	1026.000	120.000	144.000	0.000	0	0	0	0	0	0
376	1026.000	160.000	144.000	0.000	0	0	0	0	0	0
377	1026.000	200.000	144.000	0.000	0	0	0	0	0	0
378	1026.000	240.000	144.000	0.000	0	0	0	0	0	0
379	1026.000	280.000	144.000	0.000	0	0	0	0	0	0
380	1026.000	320.000	144.000	0.000	0	0	0	0	0	0
381	1026.000	360.000	144.000	0.000	0	0	0	0	0	0
382	1026.000	440.000	144.000	0.000	0	0	0	0	0	0
383	1026.000	480.000	144.000	0.000	0	0	0	0	0	0
384	1026.000	520.000	144.000	0.000	0	0	0	0	0	0
385	1026.000	560.000	144.000	0.000	0	0	0	0	0	0
386	1026.000	600.000	144.000	0.000	0	0	0	0	0	0
387	1026.000	640.000	144.000	0.000	0	0	0	0	0	0
388	1026.000	680.000	144.000	0.000	0	0	0	0	0	0
389	1026.000	720.000	144.000	0.000	0	0	0	0	0	0
390	1026.000	760.000	144.000	0.000	0	0	0	0	0	0
391	1026.000	840.000	144.000	0.000	0	0	0	0	0	0
392	1026.000	880.000	144.000	0.000	0	0	0	0	0	0
393	1026.000	920.000	144.000	0.000	0	0	0	0	0	0
394	1026.000	960.000	144.000	0.000	0	0	0	0	0	0
395	1026.000	1000.000	144.000	0.000	0	0	0	0	0	0
396	1026.000	1040.000	144.000	0.000	0	0	0	0	0	0
397	1026.000	1080.000	144.000	0.000	0	0	0	0	0	0
398	1026.000	1120.000	144.000	0.000	0	0	0	0	0	0
399	1026.000	1160.000	144.000	0.000	0	0	0	0	0	0
400	1128.830	40.000	100.713	0.000	0	0	0	0	0	0
401	1128.830	80.000	100.713	0.000	0	0	0	0	0	0
402	1128.830	120.000	100.713	0.000	0	0	0	0	0	0
403	1128.830	160.000	100.713	0.000	0	0	0	0	0	0
404	1128.830	200.000	100.713	0.000	0	0	0	0	0	0
405	1128.830	240.000	100.713	0.000	0	0	0	0	0	0
406	1128.830	280.000	100.713	0.000	0	0	0	0	0	0
407	1128.830	320.000	100.713	0.000	0	0	0	0	0	0
408	1128.830	360.000	100.713	0.000	0	0	0	0	0	0
409	1128.830	440.000	100.713	0.000	0	0	0	0	0	0
410	1128.830	480.000	100.713	0.000	0	0	0	0	0	0
411	1128.830	520.000	100.713	0.000	0	0	0	0	0	0
412	1128.830	560.000	100.713	0.000	0	0	0	0	0	0
413	1128.830	600.000	100.713	0.000	0	0	0	0	0	0
414	1128.830	640.000	100.713	0.000	0	0	0	0	0	0
415	1128.830	680.000	100.713	0.000	0	0	0	0	0	0
416	1128.830	720.000	100.713	0.000	0	0	0	0	0	0

417	1128.830	760.000	100.713	0.000	0	0	0	0	0	0
418	1128.830	840.000	100.713	0.000	0	0	0	0	0	0
419	1128.830	880.000	100.713	0.000	0	0	0	0	0	0
420	1128.830	920.000	100.713	0.000	0	0	0	0	0	0
421	1128.830	960.000	100.713	0.000	0	0	0	0	0	0
422	1128.830	1000.000	100.713	0.000	0	0	0	0	0	0
423	1128.830	1040.000	100.713	0.000	0	0	0	0	0	0
424	1128.830	1080.000	100.713	0.000	0	0	0	0	0	0
425	1128.830	1120.000	100.713	0.000	0	0	0	0	0	0
426	1128.830	1160.000	100.713	0.000	0	0	0	0	0	0
427	1231.660	40.000	57.427	0.000	0	0	0	0	0	0
428	1231.660	80.000	57.427	0.000	0	0	0	0	0	0
429	1231.660	120.000	57.427	0.000	0	0	0	0	0	0
430	1231.660	160.000	57.427	0.000	0	0	0	0	0	0
431	1231.660	200.000	57.427	0.000	0	0	0	0	0	0
432	1231.660	240.000	57.427	0.000	0	0	0	0	0	0
433	1231.660	280.000	57.427	0.000	0	0	0	0	0	0
434	1231.660	320.000	57.427	0.000	0	0	0	0	0	0
435	1231.660	360.000	57.427	0.000	0	0	0	0	0	0
436	1231.660	440.000	57.427	0.000	0	0	0	0	0	0
437	1231.660	480.000	57.427	0.000	0	0	0	0	0	0
438	1231.660	520.000	57.427	0.000	0	0	0	0	0	0
439	1231.660	560.000	57.427	0.000	0	0	0	0	0	0
440	1231.660	600.000	57.427	0.000	0	0	0	0	0	0
441	1231.660	640.000	57.427	0.000	0	0	0	0	0	0
442	1231.660	680.000	57.427	0.000	0	0	0	0	0	0
443	1231.660	720.000	57.427	0.000	0	0	0	0	0	0
444	1231.660	760.000	57.427	0.000	0	0	0	0	0	0
445	1231.660	840.000	57.427	0.000	0	0	0	0	0	0
446	1231.660	880.000	57.427	0.000	0	0	0	0	0	0
447	1231.660	920.000	57.427	0.000	0	0	0	0	0	0
448	1231.660	960.000	57.427	0.000	0	0	0	0	0	0
449	1231.660	1000.000	57.427	0.000	0	0	0	0	0	0
450	1231.660	1040.000	57.427	0.000	0	0	0	0	0	0
451	1231.660	1080.000	57.427	0.000	0	0	0	0	0	0
452	1231.660	1120.000	57.427	0.000	0	0	0	0	0	0
453	1231.660	1160.000	57.427	0.000	0	0	0	0	0	0
454	1334.490	40.000	14.140	0.000	0	0	0	0	0	0
455	1334.490	80.000	14.140	0.000	0	0	0	0	0	0
456	1334.490	120.000	14.140	0.000	0	0	0	0	0	0
457	1334.490	160.000	14.140	0.000	0	0	0	0	0	0
458	1334.490	200.000	14.140	0.000	0	0	0	0	0	0
459	1334.490	240.000	14.140	0.000	0	0	0	0	0	0
460	1334.490	280.000	14.140	0.000	0	0	0	0	0	0
461	1334.490	320.000	14.140	0.000	0	0	0	0	0	0
462	1334.490	360.000	14.140	0.000	0	0	0	0	0	0
463	1334.490	440.000	14.140	0.000	0	0	0	0	0	0
464	1334.490	480.000	14.140	0.000	0	0	0	0	0	0
465	1334.490	520.000	14.140	0.000	0	0	0	0	0	0
466	1334.490	560.000	14.140	0.000	0	0	0	0	0	0
467	1334.490	600.000	14.140	0.000	0	0	0	0	0	0
468	1334.490	640.000	14.140	0.000	0	0	0	0	0	0
469	1334.490	680.000	14.140	0.000	0	0	0	0	0	0
470	1334.490	720.000	14.140	0.000	0	0	0	0	0	0
471	1334.490	760.000	14.140	0.000	0	0	0	0	0	0
472	1334.490	840.000	14.140	0.000	0	0	0	0	0	0
473	1334.490	880.000	14.140	0.000	0	0	0	0	0	0
474	1334.490	920.000	14.140	0.000	0	0	0	0	0	0
475	1334.490	960.000	14.140	0.000	0	0	0	0	0	0
476	1334.490	1000.000	14.140	0.000	0	0	0	0	0	0

477	1334.490	1040.000	14.140	0.000	0	0	0	0	0	0
478	1334.490	1080.000	14.140	0.000	0	0	0	0	0	0
479	1334.490	1120.000	14.140	0.000	0	0	0	0	0	0
480	1334.490	1160.000	14.140	0.000	0	0	0	0	0	0
481	239.170	840.000	100.713	0.000	0	0	0	0	0	0
482	1368.000	40.000	0.000	0.000	0	0	0	0	0	0
483	1368.000	80.000	0.000	0.000	0	0	0	0	0	0
484	1368.000	120.000	0.000	0.000	0	0	0	0	0	0
485	1368.000	160.000	0.000	0.000	0	0	0	0	0	0
486	1368.000	200.000	0.000	0.000	0	0	0	0	0	0
487	1368.000	240.000	0.000	0.000	0	0	0	0	0	0
488	1368.000	280.000	0.000	0.000	0	0	0	0	0	0
489	1368.000	320.000	0.000	0.000	0	0	0	0	0	0
490	1368.000	360.000	0.000	0.000	0	0	0	0	0	0
491	1368.000	440.000	0.000	0.000	0	0	0	0	0	0
492	1368.000	480.000	0.000	0.000	0	0	0	0	0	0
493	1368.000	520.000	0.000	0.000	0	0	0	0	0	0
494	1368.000	560.000	0.000	0.000	0	0	0	0	0	0
495	1368.000	600.000	0.000	0.000	0	0	0	0	0	0
496	1368.000	640.000	0.000	0.000	0	0	0	0	0	0
497	1368.000	680.000	0.000	0.000	0	0	0	0	0	0
498	1368.000	720.000	0.000	0.000	0	0	0	0	0	0
499	1368.000	760.000	0.000	0.000	0	0	0	0	0	0
500	1368.000	840.000	0.000	0.000	0	0	0	0	0	0
501	1368.000	880.000	0.000	0.000	0	0	0	0	0	0
502	1368.000	920.000	0.000	0.000	0	0	0	0	0	0
503	1368.000	960.000	0.000	0.000	0	0	0	0	0	0
504	1368.000	1000.000	0.000	0.000	0	0	0	0	0	0
505	1368.000	1040.000	0.000	0.000	0	0	0	0	0	0
506	1368.000	1080.000	0.000	0.000	0	0	0	0	0	0
507	1368.000	1120.000	0.000	0.000	0	0	0	0	0	0
508	1368.000	1160.000	0.000	0.000	0	0	0	0	0	0

Legenda: descrizione della simbologia adottata per i gradi di liberta'	
Simbolo	Descrizione del Grado di Libertà
0	libero
1	bloccato
MASTER	Master di una o piu' relazioni

## 10. RIEPILOGO DELLE SEZIONI UTILIZZATE NEL MODELLO STRUTTURALE

### SEZIONI RETTANGOLARI

Codice	Base	H
1	8.000	8.000
2	16.000	16.000
3	20.000	26.000
5	20.000	20.000

### SEZIONE CIRCOLARE PIENA

Codice	Diametro
4	3.000

## 11. CARICHI PER ELEMENTI TRAVE.

### Carico distribuito con riferimento globale Z

Descrizione	Cod.	Cond. carico	Tipo Azione/categoria	Val. iniz.	Dist. iniz. nodo I	Val. finale	Dist.fin. nodo I	Aliq.inerz.	Aliq.inerz. SLD
neve falde esterne	2	Condizione 2	Variabile: Neve	-0.004800	0.000	-0.004800	0.000	0.0000	0.0000
neve falde interne	3	Condizione 2	Variabile: Neve	-0.004800	0.000	-0.008200	0.000	0.0000	0.0000
Neve 3	4	Condizione 2	Variabile: Neve	-0.008200	0.000	-0.004800	0.000	0.0000	0.0000

### Carico distribuito con riferimento globale Z, agente sulla lunghezza reale

Descrizione	Cod.	Cond. carico	Tipo Azione/categoria	Val. iniz.	Dist.iniz. nodo I	Val. finale	Dist.fin. nodo I	Aliq.inerz.	Aliq.inerz. SLD
Copertura	1	Condizione 1	Permanente: Permanente portato	-0.009700	0.000	-0.009700	0.000	0.0000	0.0000

## 12. GRUPPI DELLA STRUTTURA

### ELEMENTO FINITO: TRAVE

Numero gruppo	Descrizione gruppo	
1	Montanti	
2	Travi secondarie	
3	Arcarecci	
4	Tiranti	
5	Monaco	

### ELEMENTO FINITO: VINCOLO

Numero gruppo	Descrizione gruppo	
1	Cerniera	

### 13. GRUPPI ELEMENTO FINITO TRAVE - ELEMENTI CON CARICO APPLICATO

**GRUPPO NUMERO: 3- DESCRIZIONE: ARCARECCI**

Asta	Carichi		
1	Codice carico	1	2
	Moltiplicatore	20.00	20.00
2	Codice carico	1	2
	Moltiplicatore	20.00	20.00
3	Codice carico	1	2
	Moltiplicatore	20.00	20.00
4	Codice carico	1	2
	Moltiplicatore	20.00	20.00
5	Codice carico	1	2
	Moltiplicatore	40.00	40.00
6	Codice carico	1	2
	Moltiplicatore	40.00	40.00
7	Codice carico	1	2
	Moltiplicatore	40.00	40.00
8	Codice carico	1	2
	Moltiplicatore	40.00	40.00
9	Codice carico	1	2
	Moltiplicatore	40.00	40.00
10	Codice carico	1	2
	Moltiplicatore	40.00	40.00
11	Codice carico	1	2
	Moltiplicatore	40.00	40.00
12	Codice carico	1	2
	Moltiplicatore	40.00	40.00
13	Codice carico	1	2
	Moltiplicatore	40.00	40.00
14	Codice carico	1	2
	Moltiplicatore	40.00	40.00
15	Codice carico	1	2
	Moltiplicatore	40.00	40.00
16	Codice carico	1	2
	Moltiplicatore	40.00	40.00



17	Codice carico	1	2
	Moltiplicatore	40.00	40.00
18	Codice carico	1	2
	Moltiplicatore	40.00	40.00
19	Codice carico	1	2
	Moltiplicatore	40.00	40.00
20	Codice carico	1	2
	Moltiplicatore	40.00	40.00
21	Codice carico	1	2
	Moltiplicatore	40.00	40.00
22	Codice carico	1	2
	Moltiplicatore	40.00	40.00
23	Codice carico	1	2
	Moltiplicatore	40.00	40.00
24	Codice carico	1	2
	Moltiplicatore	40.00	40.00
25	Codice carico	1	2
	Moltiplicatore	40.00	40.00
26	Codice carico	1	2
	Moltiplicatore	40.00	40.00
27	Codice carico	1	2
	Moltiplicatore	40.00	40.00
28	Codice carico	1	2
	Moltiplicatore	40.00	40.00
29	Codice carico	1	2
	Moltiplicatore	40.00	40.00
30	Codice carico	1	2
	Moltiplicatore	40.00	40.00
31	Codice carico	1	2
	Moltiplicatore	40.00	40.00
32	Codice carico	1	2
	Moltiplicatore	40.00	40.00
33	Codice carico	1	2
	Moltiplicatore	60.00	60.00
34	Codice carico	1	2
	Moltiplicatore	60.00	60.00
35	Codice carico	1	2
	Moltiplicatore	60.00	60.00

36	Codice carico	1	2
	Moltiplicatore	60.00	60.00
37	Codice carico	1	2
	Moltiplicatore	60.00	60.00
38	Codice carico	1	2
	Moltiplicatore	60.00	60.00
39	Codice carico	1	2
	Moltiplicatore	60.00	60.00
40	Codice carico	1	2
	Moltiplicatore	60.00	60.00
41	Codice carico	1	2
	Moltiplicatore	40.00	40.00
42	Codice carico	1	2
	Moltiplicatore	40.00	40.00
43	Codice carico	1	2
	Moltiplicatore	40.00	40.00
44	Codice carico	1	2
	Moltiplicatore	40.00	40.00
45	Codice carico	1	2
	Moltiplicatore	40.00	40.00
46	Codice carico	1	2
	Moltiplicatore	40.00	40.00
47	Codice carico	1	2
	Moltiplicatore	40.00	40.00
48	Codice carico	1	2
	Moltiplicatore	40.00	40.00
49	Codice carico	1	2
	Moltiplicatore	40.00	40.00
50	Codice carico	1	2
	Moltiplicatore	40.00	40.00
51	Codice carico	1	2
	Moltiplicatore	40.00	40.00
52	Codice carico	1	2
	Moltiplicatore	40.00	40.00
53	Codice carico	1	2
	Moltiplicatore	40.00	40.00
54	Codice carico	1	2
	Moltiplicatore	40.00	40.00

55	Codice carico	1	2
	Moltiplicatore	40.00	40.00
56	Codice carico	1	2
	Moltiplicatore	40.00	40.00
57	Codice carico	1	2
	Moltiplicatore	40.00	40.00
58	Codice carico	1	2
	Moltiplicatore	40.00	40.00
59	Codice carico	1	2
	Moltiplicatore	40.00	40.00
60	Codice carico	1	2
	Moltiplicatore	40.00	40.00
61	Codice carico	1	2
	Moltiplicatore	40.00	40.00
62	Codice carico	1	2
	Moltiplicatore	40.00	40.00
63	Codice carico	1	2
	Moltiplicatore	40.00	40.00
64	Codice carico	1	2
	Moltiplicatore	40.00	40.00
65	Codice carico	1	2
	Moltiplicatore	40.00	40.00
66	Codice carico	1	2
	Moltiplicatore	40.00	40.00
67	Codice carico	1	2
	Moltiplicatore	40.00	40.00
68	Codice carico	1	2
	Moltiplicatore	40.00	40.00
69	Codice carico	1	2
	Moltiplicatore	60.00	60.00
70	Codice carico	1	2
	Moltiplicatore	60.00	60.00
71	Codice carico	1	2
	Moltiplicatore	60.00	60.00
72	Codice carico	1	2
	Moltiplicatore	60.00	60.00
73	Codice carico	1	2
	Moltiplicatore	60.00	60.00

74	Codice carico	1	2
	Moltiplicatore	60.00	60.00
75	Codice carico	1	2
	Moltiplicatore	40.00	40.00
76	Codice carico	1	2
	Moltiplicatore	40.00	40.00
77	Codice carico	1	2
	Moltiplicatore	40.00	40.00
78	Codice carico	1	2
	Moltiplicatore	40.00	40.00
79	Codice carico	1	2
	Moltiplicatore	40.00	40.00
80	Codice carico	1	2
	Moltiplicatore	40.00	40.00
81	Codice carico	1	2
	Moltiplicatore	60.00	60.00
82	Codice carico	1	2
	Moltiplicatore	60.00	60.00
83	Codice carico	1	2
	Moltiplicatore	40.00	40.00
84	Codice carico	1	2
	Moltiplicatore	40.00	40.00
85	Codice carico	1	2
	Moltiplicatore	40.00	40.00
86	Codice carico	1	2
	Moltiplicatore	40.00	40.00
87	Codice carico	1	2
	Moltiplicatore	40.00	40.00
88	Codice carico	1	2
	Moltiplicatore	40.00	40.00
89	Codice carico	1	2
	Moltiplicatore	40.00	40.00
90	Codice carico	1	2
	Moltiplicatore	40.00	40.00
91	Codice carico	1	2
	Moltiplicatore	40.00	40.00
92	Codice carico	1	2
	Moltiplicatore	40.00	40.00

93	Codice carico	1	2
	Moltiplicatore	40.00	40.00
94	Codice carico	1	2
	Moltiplicatore	40.00	40.00
95	Codice carico	1	2
	Moltiplicatore	40.00	40.00
96	Codice carico	1	2
	Moltiplicatore	40.00	40.00
97	Codice carico	1	2
	Moltiplicatore	40.00	40.00
98	Codice carico	1	2
	Moltiplicatore	40.00	40.00
99	Codice carico	1	2
	Moltiplicatore	40.00	40.00
100	Codice carico	1	2
	Moltiplicatore	40.00	40.00
101	Codice carico	1	2
	Moltiplicatore	40.00	40.00
102	Codice carico	1	2
	Moltiplicatore	40.00	40.00
103	Codice carico	1	2
	Moltiplicatore	20.00	20.00
104	Codice carico	1	2
	Moltiplicatore	20.00	20.00
105	Codice carico	1	2
	Moltiplicatore	20.00	20.00
106	Codice carico	1	2
	Moltiplicatore	20.00	20.00
107	Codice carico	1	3
	Moltiplicatore	20.00	20.00
108	Codice carico	1	3
	Moltiplicatore	20.00	20.00
109	Codice carico	1	3
	Moltiplicatore	20.00	20.00
110	Codice carico	1	3
	Moltiplicatore	40.00	40.00
111	Codice carico	1	3
	Moltiplicatore	40.00	40.00

112	Codice carico	1	3
	Moltiplicatore	40.00	40.00
113	Codice carico	1	3
	Moltiplicatore	40.00	40.00
114	Codice carico	1	3
	Moltiplicatore	40.00	40.00
115	Codice carico	1	3
	Moltiplicatore	40.00	40.00
116	Codice carico	1	3
	Moltiplicatore	40.00	40.00
117	Codice carico	1	3
	Moltiplicatore	40.00	40.00
118	Codice carico	1	3
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375	Codice carico	1	2
	Moltiplicatore	20.00	20.00
376	Codice carico	1	2
	Moltiplicatore	20.00	20.00

## 14. COMBINAZIONI DI CARICO

### NORMATIVA: DM 14/02/1992 T.A. (STATICO) E DM 16/01/1996 (SISMICO)

Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
1	Carichi totali	Azione sismica: Sisma assente	Permanente: Peso Proprio	Condizione peso proprio	1.000
			Permanente: Permanente portato	Condizione 1	1.000
			Variabile: Neve	Condizione 2	1.000

## 15. FORZE/MOMENTI

### FORZE MOMENTI PER GRUPPI TRAVE

#### GRUPPO NUMERO: 1 - DESCRIZIONE: MONTANTI

Elem./C.c. Mz/J	Fx/I	Fx/J	Fy/I	Fy/J	Fz/I	Fz/J	Mx/I	Mx/J	My/I	My/J	Mz/I
1/ 1	1.669e+03	-1.666e+03	3.188e+02	-3.101e+02	-1.779e+02	1.779e+02	4.262e+01	-4.262e+01	2.332e+01	6.447e+03	-4.508e+02
1.189e+04											
2/ 1	1.661e+03	-1.658e+03	3.896e+02	-3.809e+02	-8.295e+02	8.295e+02	1.406e+04	-1.406e+04	3.339e+04	-3.224e+03	2.660e+04
1.259e+04											
3/ 1	1.431e+03	-1.420e+03	2.500e+02	-2.233e+02	-2.190e+02	2.190e+02	9.959e+03	-9.959e+03	1.449e+04	9.944e+03	1.275e+04
1.366e+04											
4/ 1	1.091e+03	-1.080e+03	-3.338e+01	6.011e+01	-1.066e+02	1.066e+02	-5.465e+02	5.465e+02	5.045e+03	6.845e+03	-1.400e+04
8.783e+03											
5/ 1	7.507e+02	-7.394e+02	-3.197e+02	3.465e+02	-2.936e+02	2.936e+02	-1.160e+04	1.160e+04	7.318e+03	2.543e+04	-8.655e+03
2.851e+04											
6/ 1	7.571e+02	-7.684e+02	4.021e+02	-3.753e+02	2.867e+02	-2.867e+02	1.496e+04	-1.496e+04	-2.459e+04	-7.390e+03	3.228e+04
1.108e+04											
7/ 1	1.096e+03	-1.107e+03	1.413e+02	-1.145e+02	1.208e+02	-1.208e+02	6.553e+03	-6.553e+03	-6.759e+03	-6.714e+03	-1.133e+04
2.560e+04											
8/ 1	1.383e+03	-1.395e+03	-9.855e+01	1.253e+02	1.190e+02	-1.190e+02	1.639e+03	-1.639e+03	-6.373e+03	-6.909e+03	-2.514e+04
1.265e+04											
9/ 1	1.667e+03	-1.671e+03	-3.108e+02	3.195e+02	1.770e+02	-1.770e+02	-4.295e+01	4.295e+01	-6.415e+03	-2.351e+01	-1.191e+04
4.507e+02											
10/ 1	4.591e+02	-4.628e+02	2.137e+02	-2.050e+02	-1.010e-01	1.010e-01	2.283e+01	-2.283e+01	-1.449e+01	1.817e+01	7.196e+03
4.192e+02											
11/ 1	4.470e+02	-4.507e+02	2.086e+02	-1.999e+02	8.969e-02	-8.969e-02	-2.184e+01	2.184e+01	1.367e+01	-1.693e+01	7.006e+03
4.240e+02											
12/ 1	1.628e+02	-1.665e+02	8.905e+01	-8.034e+01	6.641e-03	-6.641e-03	4.137e+01	-4.137e+01	-1.383e+01	1.359e+01	2.584e+03
4.963e+02											
13/ 1	3.203e+03	-3.214e+03	-5.004e+02	5.272e+02	-6.667e+00	6.667e+00	-1.821e+03	1.821e+03	3.313e+02	4.125e+02	-5.133e+04
5.993e+03											
14/ 1	3.255e+03	-3.266e+03	-4.919e+02	5.186e+02	2.782e+01	-2.782e+01	1.911e+03	-1.911e+03	-1.564e+03	-1.540e+03	-5.050e+04
5.872e+03											
15/ 1	1.318e+03	-1.329e+03	-1.612e+02	1.879e+02	-1.542e+02	1.542e+02	-1.828e+03	1.828e+03	6.663e+03	1.054e+04	-1.815e+04
1.321e+03											
16/ 1	2.775e+03	-2.786e+03	1.792e+02	-1.524e+02	4.160e+00	-4.160e+00	-3.105e+03	3.105e+03	-6.856e+02	2.214e+02	-3.236e+04
5.086e+04											
17/ 1	2.824e+03	-2.835e+03	1.838e+02	-1.571e+02	-4.115e+00	4.115e+00	2.954e+03	-2.954e+03	4.855e+02	-2.638e+01	-3.111e+04
5.013e+04											
18/ 1	1.011e+03	-1.023e+03	7.769e+01	-5.095e+01	-1.231e+02	1.231e+02	-6.839e+03	6.839e+03	6.862e+03	6.876e+03	-1.136e+04
1.853e+04											
19/ 1	2.479e+03	-2.490e+03	9.007e+02	-8.740e+02	-7.539e+01	7.539e+01	-4.503e+03	4.503e+03	5.066e+03	3.345e+03	6.637e+04
3.263e+04											
20/ 1	2.528e+03	-2.539e+03	9.044e+02	-8.777e+02	8.029e+01	-8.029e+01	4.382e+03	-4.382e+03	-5.440e+03	-3.517e+03	6.791e+04
3.150e+04											
21/ 1	6.606e+02	-6.719e+02	3.388e+02	-3.120e+02	-2.918e+02	2.918e+02	-1.525e+04	1.525e+04	2.497e+04	7.591e+03	2.536e+04
1.095e+04											
22/ 1	2.482e+03	-2.470e+03	-7.495e+02	7.762e+02	8.542e+01	-8.542e+01	2.238e+03	-2.238e+03	-3.773e+03	-5.757e+03	-2.663e+04
5.848e+04											
23/ 1	2.526e+03	-2.515e+03	-7.934e+02	8.202e+02	-8.332e+01	8.332e+01	-2.672e+03	2.672e+03	3.619e+03	5.677e+03	-2.799e+04
6.202e+04											
24/ 1	6.518e+02	-6.406e+02	-2.897e+02	3.164e+02	3.002e+02	-3.002e+02	1.147e+04	-1.147e+04	-7.549e+03	-2.595e+04	-1.044e+04
2.338e+04											
25/ 1	2.771e+03	-2.760e+03	1.314e+01	1.360e+01	-8.266e+00	8.266e+00	-8.711e+01	8.711e+01	-6.399e+01	9.862e+02	-2.663e+04
2.660e+04											
26/ 1	2.813e+03	-2.802e+03	-3.484e+01	6.157e+01	1.484e+01	-1.484e+01	-1.810e+02	1.810e+02	-4.904e+02	-1.165e+03	-3.302e+04
2.764e+04											
27/ 1	1.003e+03	-9.918e+02	-2.026e+00	2.876e+01	1.103e+02	-1.103e+02	2.214e+02	-2.214e+02	-5.342e+03	-6.964e+03	-1.241e+04
1.069e+04											
28/ 1	3.189e+03	-3.177e+03	7.793e+02	-7.525e+02	3.688e+00	-3.688e+00	-2.909e+03	2.909e+03	-1.428e+02	-2.687e+02	5.850e+04
2.695e+04											
29/ 1	3.231e+03	-3.219e+03	7.232e+02	-6.964e+02	1.988e+00	-1.988e+00	2.470e+03	-2.470e+03	-1.077e+03	8.555e+02	4.583e+04
3.336e+04											
30/ 1	1.354e+03	-1.343e+03	2.856e+02	-2.588e+02	2.388e+02	-2.388e+02	-1.097e+04	1.097e+04	-1.671e+04	-9.931e+03	1.829e+04
1.208e+04											
31/ 1	3.858e+03	-3.855e+03	1.140e+03	-1.132e+03	-5.372e+02	5.372e+02	5.356e+03	-5.356e+03	1.448e+04	5.059e+03	8.660e+04
4.529e+04											
32/ 1	1.542e+03	-1.539e+03	4.291e+02	-4.204e+02	9.246e+02	-9.246e+02	-1.590e+04	1.590e+04	-4.098e+04	7.357e+03	3.397e+04
1.852e+04											
33/ 1	3.218e+03	-3.206e+03	5.289e+02	-5.022e+02	6.765e+00	-6.765e+00	1.698e+03	-1.698e+03	-4.212e+02	-3.335e+02	6.050e+03
5.147e+04											

34/ 1	4.634e+02	-4.597e+02	-2.053e+02	2.140e+02	9.509e-02	-9.509e-02	-2.170e+01	2.170e+01	-1.713e+01	1.367e+01	-4.191e+02	-
7.205e+03												
35/ 1	1.393e+03	-1.382e+03	1.251e+02	-9.835e+01	-1.186e+02	1.186e+02	-1.606e+03	1.606e+03	6.867e+03	6.361e+03	-1.263e+04	-
2.510e+04												
36/ 1	1.107e+03	-1.095e+03	-1.143e+02	1.410e+02	-1.203e+02	1.203e+02	-6.498e+03	6.498e+03	6.686e+03	6.740e+03	-2.556e+04	-
1.132e+04												
37/ 1	7.685e+02	-7.573e+02	-3.749e+02	4.017e+02	-2.858e+02	2.858e+02	-1.490e+04	1.490e+04	7.358e+03	2.453e+04	-1.107e+04	-
3.225e+04												
38/ 1	7.403e+02	-7.516e+02	3.463e+02	-3.196e+02	2.930e+02	-2.930e+02	1.158e+04	-1.158e+04	-2.539e+04	-7.305e+03	2.849e+04	-
8.657e+03												
39/ 1	1.082e+03	-1.093e+03	6.008e+01	-3.334e+01	1.078e+02	-1.078e+02	5.363e+02	-5.363e+02	-6.884e+03	-5.141e+03	-8.789e+03	-
1.400e+04												
40/ 1	1.422e+03	-1.433e+03	-2.232e+02	2.500e+02	2.188e+02	-2.188e+02	-9.967e+03	9.967e+03	-9.842e+03	-1.457e+04	-1.366e+04	-
1.274e+04												
41/ 1	1.656e+03	-1.660e+03	-3.810e+02	3.897e+02	8.220e+02	-8.220e+02	-1.410e+04	1.410e+04	3.480e+03	-3.338e+04	1.258e+04	-
2.660e+04												
42/ 1	1.553e+02	-1.516e+02	-7.564e+01	8.436e+01	-4.772e-02	4.772e-02	-3.197e+01	3.197e+01	-5.950e+00	7.686e+00	-4.993e+02	-
2.410e+03												
43/ 1	4.370e+02	-4.333e+02	-1.942e+02	2.029e+02	-6.445e-02	6.445e-02	1.636e+01	-1.636e+01	1.243e+01	-1.009e+01	-4.269e+02	-
6.795e+03												
44/ 1	2.789e+03	-2.778e+03	-1.533e+02	1.800e+02	-3.868e+00	3.868e+00	2.925e+03	-2.925e+03	-2.402e+02	6.717e+02	-5.097e+04	-
3.238e+04												
45/ 1	2.494e+03	-2.482e+03	-8.757e+02	9.024e+02	7.538e+01	-7.538e+01	4.374e+03	-4.374e+03	-3.357e+03	-5.054e+03	-3.266e+04	-
6.653e+04												
46/ 1	2.473e+03	-2.484e+03	7.779e+02	-7.512e+02	-8.451e+01	8.451e+01	-2.201e+03	2.201e+03	5.682e+03	3.747e+03	5.865e+04	-
2.665e+04												
47/ 1	2.762e+03	-2.773e+03	1.462e+01	1.212e+01	9.586e+00	-9.586e+00	1.037e+02	-1.037e+02	-1.049e+03	-2.015e+01	-2.665e+04	-
2.679e+04												
48/ 1	3.179e+03	-3.191e+03	-7.532e+02	7.799e+02	-1.074e-01	1.074e-01	2.742e+03	-2.742e+03	2.509e+02	-2.389e+02	-2.714e+04	-
5.838e+04												
49/ 1	3.258e+03	-3.246e+03	5.057e+02	-4.790e+02	-2.334e+01	2.334e+01	-1.338e+03	1.338e+03	1.263e+03	1.341e+03	5.525e+03	-
4.941e+04												
50/ 1	2.831e+03	-2.819e+03	-1.544e+02	1.811e+02	7.060e+00	-7.060e+00	-1.990e+03	1.990e+03	-1.539e+02	-6.338e+02	-4.917e+04	-
3.046e+04												
51/ 1	2.538e+03	-2.526e+03	-8.730e+02	8.998e+02	-7.162e+01	7.162e+01	-3.701e+03	3.701e+03	3.149e+03	4.841e+03	-3.084e+04	-
6.805e+04												
52/ 1	2.518e+03	-2.530e+03	8.265e+02	-7.997e+02	7.637e+01	-7.637e+01	2.524e+03	-2.524e+03	-5.139e+03	-3.381e+03	6.305e+04	-
2.767e+04												
53/ 1	2.807e+03	-2.818e+03	6.929e+01	-4.255e+01	-1.488e+01	1.488e+01	-1.064e+02	1.064e+02	1.103e+03	5.571e+02	-2.728e+04	-
3.352e+04												
54/ 1	3.227e+03	-3.238e+03	-6.855e+02	7.123e+02	7.204e+00	-7.204e+00	-3.083e+03	3.083e+03	-1.139e+03	3.348e+02	-3.381e+04	-
4.417e+04												
55/ 1	1.325e+03	-1.314e+03	1.751e+02	-1.484e+02	1.484e+02	-1.484e+02	7.273e+02	-7.273e+02	-1.016e+04	-6.396e+03	1.007e+03	-
1.704e+04												
56/ 1	1.029e+03	-1.018e+03	-4.680e+01	7.354e+01	1.186e+02	-1.186e+02	5.191e+03	-5.191e+03	-6.627e+03	-6.603e+03	-1.756e+04	-
1.085e+04												
57/ 1	6.915e+02	-6.802e+02	-3.092e+02	3.359e+02	2.803e+02	-2.803e+02	1.414e+04	-1.414e+04	-7.260e+03	-2.402e+04	-1.044e+04	-
2.555e+04												
58/ 1	6.687e+02	-6.799e+02	3.267e+02	-3.000e+02	-2.912e+02	2.912e+02	-1.116e+04	1.116e+04	2.506e+04	7.428e+03	2.439e+04	-
1.057e+04												
59/ 1	1.018e+03	-1.029e+03	3.820e+01	-1.147e+01	-1.119e+02	1.119e+02	4.136e+02	-4.136e+02	7.021e+03	5.468e+03	-1.083e+04	-
1.360e+04												
60/ 1	1.374e+03	-1.386e+03	-2.510e+02	2.778e+02	-2.511e+02	2.511e+02	1.219e+04	-1.219e+04	9.908e+03	1.811e+04	-1.330e+04	-
1.620e+04												
61/ 1	3.810e+03	-3.868e+03	-1.189e+03	1.325e+03	4.491e+02	-4.491e+02	-7.127e+03	7.127e+03	-4.503e+02	-1.588e+04	5.897e+04	-
1.047e+05												
62/ 1	3.870e+03	-3.812e+03	1.329e+03	-1.192e+03	-4.842e+02	4.842e+02	6.403e+03	-6.403e+03	1.619e+04	1.422e+03	1.047e+05	-
5.883e+04												
63/ 1	3.922e+03	-3.865e+03	1.251e+03	-1.114e+03	4.842e+02	-4.842e+02	-6.636e+03	6.636e+03	-1.395e+04	-3.661e+03	8.668e+04	-
4.368e+04												
64/ 1	1.603e+03	-1.545e+03	5.527e+02	-4.159e+02	-8.279e+02	8.279e+02	1.827e+04	-1.827e+04	4.004e+04	-9.926e+03	3.400e+04	-
1.639e+04												

## GRUPPO NUMERO: 2 - DESCRIZIONE: TRAVI SECONDARIE

Elem./C.c.	Fx/I	Fx/J	Fy/I	Fy/J	Fz/I	Fz/J	Mx/I	Mx/J	My/I	My/J	Mz/I
Mz/J											
1/ 1	5.934e+01	-5.934e+01	2.776e+02	-2.725e+02	1.790e+02	-1.790e+02	-7.476e+02	7.476e+02	-1.163e+04	4.471e+03	6.690e+03
4.311e+03											
2/ 1	3.854e+01	-3.854e+01	2.007e+02	-1.955e+02	7.869e+01	-7.869e+01	-8.746e+02	8.746e+02	-5.555e+03	2.408e+03	-3.866e+03
1.179e+04											
3/ 1	1.616e+01	-1.616e+01	1.155e+02	-1.104e+02	2.877e+01	-2.877e+01	-8.254e+02	8.254e+02	-3.581e+03	2.430e+03	-1.133e+04
1.585e+04											
4/ 1	-4.562e-01	4.562e-01	4.514e+01	-4.002e+01	1.369e+01	-1.369e+01	-7.904e+02	7.904e+02	-3.310e+03	2.762e+03	-1.554e+04
1.724e+04											
5/ 1	-8.822e+00	8.822e+00	-1.902e+01	2.414e+01	1.354e+01	-1.354e+01	-7.457e+02	7.457e+02	-3.217e+03	2.675e+03	-1.711e+04
1.625e+04											
6/ 1	-8.400e+00	8.400e+00	-8.201e+01	8.713e+01	1.671e+01	-1.671e+01	-6.782e+02	6.782e+02	-2.676e+03	2.008e+03	-1.631e+04
1.293e+04											
7/ 1	2.829e-01	-2.829e-01	-1.444e+02	1.495e+02	2.204e+01	-2.204e+01	-5.811e+02	5.811e+02	-1.583e+03	7.009e+02	-1.317e+04
7.291e+03											
8/ 1	1.574e+01	-1.574e+01	-2.076e+02	2.127e+02	2.623e+01	-2.623e+01	-4.502e+02	4.502e+02	7.722e+01	-1.127e+03	-7.675e+03
7.293e+02											
9/ 1	3.521e+01	-3.521e+01	-2.846e+02	2.897e+02	-1.603e+00	1.603e+00	-2.819e+02	2.819e+02	2.123e+03	-2.059e+03	2.611e+02
1.175e+04											
10/ 1	5.276e+01	-5.276e+01	-4.467e+02	4.519e+02	-1.595e+02	1.595e+02	1.601e+02	-1.601e+02	2.977e+03	3.405e+03	1.132e+04
2.929e+04											
11/ 1	3.334e+01	-3.334e+01	4.046e+02	-3.995e+02	1.736e+02	-1.736e+02	-9.950e+02	9.950e+02	-3.696e+03	-3.246e+03	2.755e+04
1.147e+04											
12/ 1	1.688e+01	-1.688e+01	2.414e+02	-2.363e+02	1.340e+01	-1.340e+01	-5.455e+02	5.455e+02	2.362e+03	-2.898e+03	1.182e+04
2.260e+03											
13/ 1	-1.279e+00	1.279e+00	1.651e+02	-1.600e+02	-1.233e+01	1.233e+01	-3.544e+02	3.544e+02	1.945e+03	-1.452e+03	2.643e+03
3.858e+03											
14/ 1	-1.569e+01	1.569e+01	1.022e+02	-9.710e+01	-6.417e+00	6.417e+00	-1.804e+02	1.804e+02	7.036e+02	-4.470e+02	-3.553e+03
7.539e+03											
15/ 1	-2.389e+01	2.389e+01	3.901e+01	-3.389e+01	-1.535e+00	1.535e+00	-1.662e+01	1.662e+01	2.411e+01	3.727e+01	-7.363e+03
8.821e+03											
16/ 1	-2.469e+01	2.469e+01	-2.521e+01	3.033e+01	7.976e-01	-7.976e-01	1.415e+02	-1.415e+02	-7.642e+01	4.451e+01	-8.798e+03
7.688e+03											
17/ 1	-1.808e+01	1.808e+01	-8.834e+01	9.346e+01	5.703e+00	-5.703e+00	2.987e+02	-2.987e+02	3.009e+02	-5.290e+02	-7.819e+03
4.183e+03											
18/ 1	-5.184e+00	5.184e+00	-1.509e+02	1.560e+02	1.203e+01	-1.203e+01	4.612e+02	-4.612e+02	1.202e+03	-1.683e+03	-4.447e+03
1.693e+03											

19/	1	1.161e+01	-1.161e+01	-2.265e+02	2.317e+02	-1.224e+01	1.224e+01	6.390e+02	-6.390e+02	2.568e+03	-2.078e+03	1.344e+03	-	
1.051e+04	20/	1	2.702e+01	-2.702e+01	-3.889e+02	3.940e+02	-1.707e+02	1.707e+02	1.079e+03	-1.079e+03	2.910e+03	3.917e+03	1.018e+04	-
2.584e+04	21/	1	3.786e+01	-3.786e+01	4.369e+02	-4.317e+02	1.756e+02	-1.756e+02	-1.897e+02	1.897e+02	-4.546e+03	-2.477e+03	2.758e+04	-
1.020e+04	22/	1	1.955e+01	-1.955e+01	2.721e+02	-2.670e+02	1.189e+01	-1.189e+01	2.676e+02	-2.676e+02	1.516e+03	-1.992e+03	1.064e+04	-
1.455e+02	23/	1	-7.302e-01	7.302e-01	1.940e+02	-1.888e+02	-1.790e+01	1.790e+01	4.691e+02	-4.691e+02	9.493e+02	-2.334e+02	3.299e+02	-
7.326e+03	24/	1	-1.703e+01	1.703e+01	1.303e+02	-1.251e+02	-1.365e+01	1.365e+01	6.566e+02	-6.566e+02	-5.927e+02	1.139e+03	-6.934e+03	-
1.204e+04	25/	1	-2.667e+01	2.667e+01	6.698e+01	-6.186e+01	-8.530e+00	8.530e+00	8.376e+02	-8.376e+02	-1.617e+03	1.958e+03	-1.179e+04	-
1.437e+04	26/	1	-7.371e+00	7.371e+00	-8.473e+01	8.985e+01	-3.308e+01	3.308e+01	1.173e+03	-1.173e+03	-1.867e+03	3.191e+03	-1.398e+04	-
1.049e+04	27/	1	1.261e+01	-1.261e+01	-1.662e+02	1.714e+02	-7.100e+01	7.100e+01	1.367e+03	-1.367e+03	-2.136e+03	4.976e+03	-1.087e+04	-
4.123e+03	28/	1	3.163e+01	-3.163e+01	-2.262e+02	2.313e+02	-1.271e+02	1.271e+02	1.404e+03	-1.404e+03	-3.980e+03	9.066e+03	-4.510e+03	-
4.640e+03	29/	1	-1.775e+00	1.775e+00	3.027e+02	-2.976e+02	1.710e+02	-1.710e+02	-4.635e+02	4.635e+02	-1.013e+04	3.287e+03	9.571e+03	-
2.435e+03	30/	1	-1.414e+00	1.414e+00	2.332e+02	-2.281e+02	9.996e+01	-9.996e+01	-4.635e+02	4.635e+02	-5.367e+03	1.368e+03	-1.481e+03	-
1.071e+04	31/	1	-5.087e-01	5.087e-01	1.422e+02	-1.371e+02	4.459e+01	-4.459e+01	-4.635e+02	4.635e+02	-3.600e+03	1.816e+03	-9.699e+03	-
1.528e+04	32/	1	3.421e-02	-3.421e-02	6.621e+01	-6.109e+01	2.521e+01	-2.521e+01	-4.635e+02	4.635e+02	-3.475e+03	2.467e+03	-1.453e+04	-
1.707e+04	33/	1	1.717e-01	-1.717e-01	-5.482e+00	1.060e+01	1.586e+01	-1.586e+01	-4.635e+02	4.635e+02	-3.301e+03	2.667e+03	-1.667e+04	-
1.635e+04	34/	1	2.041e-01	-2.041e-01	-7.666e+01	8.178e+01	7.182e+00	-7.182e+00	-4.635e+02	4.635e+02	-2.608e+03	2.321e+03	-1.634e+04	-
1.317e+04	35/	1	2.362e-01	-2.362e-01	-1.468e+02	1.519e+02	3.460e-01	-3.460e-01	-4.635e+02	4.635e+02	-1.417e+03	1.403e+03	-1.352e+04	-
7.547e+03	36/	1	9.284e-04	-9.284e-04	-2.175e+02	2.227e+02	-8.780e+00	8.780e+00	-4.635e+02	4.635e+02	1.800e+02	1.712e+02	-8.195e+03	-
6.090e+02	37/	1	-1.198e+00	1.198e+00	-2.953e+02	3.004e+02	-3.536e+01	3.536e+01	-4.635e+02	4.635e+02	1.773e+03	-3.583e+02	-2.000e+02	-
1.171e+04	38/	1	-3.766e+00	3.766e+00	-3.998e+02	4.049e+02	-6.098e+01	6.098e+01	-4.635e+02	4.635e+02	2.019e+03	4.201e+02	1.101e+04	-
2.711e+04	39/	1	-1.440e+01	1.440e+01	3.610e+02	-3.559e+02	6.899e+01	-6.899e+01	2.922e+01	-2.922e+01	-3.672e+02	-2.393e+03	2.575e+04	-
1.142e+04	40/	1	-1.113e+01	1.113e+01	2.554e+02	-2.503e+02	4.061e+01	-4.061e+01	2.922e+01	-2.922e+01	8.665e+02	-2.491e+03	1.203e+04	-
1.916e+03	41/	1	-9.430e+00	9.430e+00	1.800e+02	-1.749e+02	1.906e+01	-1.906e+01	2.922e+01	-2.922e+01	7.016e+02	-1.464e+03	2.642e+03	-
4.455e+03	42/	1	-8.818e+00	8.818e+00	1.104e+02	-1.053e+02	1.167e+01	-1.167e+01	2.922e+01	-2.922e+01	7.308e+00	-4.740e+02	-3.863e+03	-
8.176e+03	43/	1	-8.490e+00	8.490e+00	4.096e+01	-3.584e+01	4.939e+00	-4.939e+00	2.922e+01	-2.922e+01	-3.549e+02	1.573e+02	-7.839e+03	-
9.375e+03	44/	1	-8.130e+00	8.130e+00	-2.921e+01	3.433e+01	-3.433e+00	3.433e+00	2.922e+01	-2.922e+01	-2.221e+02	3.594e+02	-9.350e+03	-
8.079e+03	45/	1	-7.735e+00	7.735e+00	-9.869e+01	1.038e+02	-1.014e+01	1.014e+01	2.922e+01	-2.922e+01	3.421e+02	6.337e+01	-8.367e+03	-
4.317e+03	46/	1	-7.613e+00	7.613e+00	-1.683e+02	1.735e+02	-1.740e+01	1.740e+01	2.922e+01	-2.922e+01	1.274e+03	-5.776e+02	-4.865e+03	-
1.972e+03	47/	1	-8.570e+00	8.570e+00	-2.437e+02	2.488e+02	-3.854e+01	3.854e+01	2.922e+01	-2.922e+01	2.262e+03	-7.206e+02	1.283e+03	-
1.113e+04	48/	1	-1.113e+01	1.113e+01	-3.486e+02	3.537e+02	-6.510e+01	6.510e+01	2.922e+01	-2.922e+01	2.172e+03	4.317e+02	1.054e+04	-
2.459e+04	49/	1	1.927e+01	-1.927e+01	3.914e+02	-3.862e+02	7.244e+01	-7.244e+01	2.686e+02	-2.686e+02	-1.272e+03	-1.625e+03	2.565e+04	-
1.010e+04	50/	1	2.265e+01	-2.265e+01	2.856e+02	-2.804e+02	4.345e+01	-4.345e+01	2.686e+02	-2.686e+02	-7.979e+01	-1.658e+03	1.080e+04	-
5.230e+02	51/	1	2.469e+01	-2.469e+01	2.076e+02	-2.025e+02	1.559e+01	-1.559e+01	2.686e+02	-2.686e+02	-3.364e+02	-2.872e+02	2.777e+02	-
7.925e+03	52/	1	2.575e+01	-2.575e+01	1.373e+02	-1.322e+02	6.130e+00	-6.130e+00	2.686e+02	-2.686e+02	-1.351e+03	1.106e+03	-7.285e+03	-
1.267e+04	53/	1	2.653e+01	-2.653e+01	6.778e+01	-6.266e+01	-1.156e+00	1.156e+00	2.686e+02	-2.686e+02	-2.076e+03	2.123e+03	-1.232e+04	-
1.493e+04	54/	1	2.730e+01	-2.730e+01	-2.914e+00	8.034e+00	-1.129e+01	1.129e+01	2.686e+02	-2.686e+02	-2.271e+03	2.723e+03	-1.493e+04	-
1.471e+04	55/	1	2.808e+01	-2.808e+01	-4.510e+01	5.022e+01	-2.197e+01	2.197e+01	5.275e+02	-5.275e+02	-2.025e+03	2.904e+03	-1.506e+04	-
1.315e+04	56/	1	2.864e+01	-2.864e+01	-1.193e+02	1.244e+02	-4.037e+01	4.037e+01	5.275e+02	-5.275e+02	-1.425e+03	3.040e+03	-1.384e+04	-
8.962e+03	57/	1	2.901e+01	-2.901e+01	-2.084e+02	2.135e+02	-9.445e+01	9.445e+01	5.275e+02	-5.275e+02	-9.859e+02	4.764e+03	-9.889e+03	-
1.451e+03	58/	1	2.985e+01	-2.985e+01	-2.853e+02	2.904e+02	-1.869e+02	1.869e+02	5.275e+02	-5.275e+02	-2.797e+03	1.027e+04	-2.346e+03	-
9.167e+03	59/	1	-1.654e+02	1.654e+02	3.424e+02	-3.372e+02	2.104e+02	-2.104e+02	2.505e+02	-2.505e+02	-9.733e+03	1.316e+03	1.322e+04	-
3.753e+02	60/	1	-1.599e+02	1.599e+02	2.367e+02	-2.316e+02	5.501e+01	-5.501e+01	2.505e+02	-2.505e+02	-3.047e+03	8.462e+02	6.204e+02	-
8.747e+03	61/	1	-1.538e+02	1.538e+02	1.519e+02	-1.467e+02	2.374e+01	-2.374e+01	2.505e+02	-2.505e+02	-2.663e+03	1.714e+03	-7.743e+03	-
1.371e+04	62/	1	-1.492e+02	1.492e+02	7.840e+01	-7.328e+01	1.964e+01	-1.964e+01	2.505e+02	-2.505e+02	-3.067e+03	2.281e+03	-1.298e+04	-
1.602e+04	63/	1	-1.454e+02	1.454e+02	3.035e+00	2.085e+00	1.098e+01	-1.098e+01	2.505e+02	-2.505e+02	-2.908e+03	2.469e+03	-1.568e+04	-
1.570e+04	64/	1	-1.421e+02	1.421e+02	-7.341e+01	7.853e+01	-2.406e-01	2.406e-01	2.505e+02	-2.505e+02	-2.255e+03	2.265e+03	-1.579e+04	-
1.276e+04	65/	1	-1.391e+02	1.391e+02	-1.492e+02	1.544e+02	-1.001e+01	1.001e+01	2.505e+02	-2.505e+02	-1.244e+03	1.645e+03	-1.327e+04	-
7.194e+03	66/	1	-1.367e+02	1.367e+02	-2.237e+02	2.288e+02	-1.644e+01	1.644e+01	2.505e+02	-2.505e+02	-1.107e+01	6.686e+02	-8.017e+03	-
1.032e+03	67/	1	-1.357e+02	1.357e+02	-2.964e+02	3.015e+02	-1.879e+01	1.879e+01	2.505e+02	-2.505e+02	1.198e+03	-4.458e+02	8.567e+01	-
1.204e+04	68/	1	-1.361e+02	1.361e+02	-4.006e+02	4.057e+02	-2.101e+01	2.101e+01	2.505e+02	-2.505e+02	1.914e+03	-1.073e+03	1.128e+04	-
2.741e+04	69/	1	-5.681e+01	5.681e+01	3.459e+02	-3.408e+02	-2.858e+01	2.858e+01	-2.806e+01	2.806e+01	2.986e+03	-1.843e+03	2.503e+04	-
1.130e+04	70/	1	-5.369e+01	5.369e+01	2.621e+02	-2.570e+02	1.768e+01	-1.768e+01	-2.806e+01	2.806e+01	6.778e+02	-1.385e+03	1.185e+04	-
1.470e+03	71/	1	-5.189e+01	5.189e+01	1.924e+02	-1.873e+02	2.251e+01	-2.251e+01	-2.806e+01	2.806e+01	-1.794e+02	-7.209e+02	2.208e+03	-

5.387e+03  
72/ 1 -5.128e+01 5.128e+01 1.176e+02 -1.124e+02 1.507e+01 -1.507e+01 -2.806e+01 2.806e+01 -6.397e+02 3.690e+01 -4.749e+03  
9.349e+03  
73/ 1 -5.112e+01 5.112e+01 4.193e+01 -3.681e+01 5.787e+00 -5.787e+00 -2.805e+01 2.805e+01 -8.239e+02 5.924e+02 -8.984e+03  
1.056e+04  
74/ 1 -5.101e+01 5.101e+01 -3.393e+01 3.905e+01 -4.041e+00 4.041e+00 -2.805e+01 2.805e+01 -6.348e+02 7.964e+02 -1.055e+04  
9.089e+03  
75/ 1 -5.094e+01 5.094e+01 -1.096e+02 1.147e+02 -1.335e+01 1.335e+01 -2.806e+01 2.806e+01 -9.127e+01 6.254e+02 -9.432e+03  
4.947e+03  
76/ 1 -5.132e+01 5.132e+01 -1.844e+02 1.895e+02 -2.074e+01 2.074e+01 -2.806e+01 2.806e+01 6.630e+02 1.664e+02 -5.565e+03 -  
1.914e+03  
77/ 1 -5.288e+01 5.288e+01 -2.543e+02 2.595e+02 -1.650e+01 1.650e+01 -2.806e+01 2.806e+01 1.344e+03 -6.842e+02 1.192e+03 -  
1.147e+04  
78/ 1 -5.581e+01 5.581e+01 -3.398e+02 3.450e+02 2.563e+01 -2.563e+01 -2.806e+01 2.806e+01 1.824e+03 -2.849e+03 1.092e+04 -  
2.462e+04  
79/ 1 5.793e+02 -5.793e+02 -1.564e+02 1.616e+02 1.015e+01 -1.015e+01 5.548e+01 -5.548e+01 -4.274e+02 2.146e+01 -4.998e+03 -  
1.362e+03  
80/ 1 6.087e+02 -6.087e+02 8.096e+01 -7.584e+01 1.380e+00 -1.380e+00 5.548e+01 -5.548e+01 -4.761e+01 -7.580e+00 1.447e+03  
1.689e+03  
81/ 1 6.392e+02 -6.392e+02 1.222e+02 -1.171e+02 6.685e-01 -6.685e-01 5.548e+01 -5.548e+01 -1.694e+01 -9.796e+00 -1.495e+03  
6.279e+03  
82/ 1 6.616e+02 -6.616e+02 8.042e+01 -7.530e+01 1.060e+00 -1.060e+00 5.548e+01 -5.548e+01 -1.408e+01 -2.832e+01 -6.078e+03  
9.192e+03  
83/ 1 6.702e+02 -6.702e+02 2.176e+01 -1.664e+01 8.151e-01 -8.151e-01 5.548e+01 -5.548e+01 6.290e+00 -3.890e+01 -9.105e+03  
9.873e+03  
84/ 1 6.624e+02 -6.624e+02 -3.807e+01 4.319e+01 4.817e-01 -4.817e-01 5.548e+01 -5.548e+01 2.103e+01 -4.030e+01 -9.976e+03  
8.351e+03  
85/ 1 6.387e+02 -6.387e+02 -1.025e+02 1.076e+02 2.062e-01 -2.062e-01 5.548e+01 -5.548e+01 2.824e+01 -3.649e+01 -8.659e+03  
4.456e+03  
86/ 1 6.035e+02 -6.035e+02 -1.668e+02 1.719e+02 -2.297e-01 2.297e-01 5.548e+01 -5.548e+01 3.177e+01 -2.258e+01 -4.916e+03 -  
1.859e+03  
87/ 1 5.651e+02 -5.651e+02 -1.926e+02 1.977e+02 -1.405e+00 1.405e+00 5.548e+01 -5.548e+01 2.635e+01 2.986e+01 1.381e+03 -  
9.186e+03  
88/ 1 5.360e+02 -5.360e+02 -1.356e+02 1.407e+02 -4.272e+00 4.272e+00 5.548e+01 -5.548e+01 -1.993e+01 1.908e+02 8.877e+03 -  
1.440e+04  
89/ 1 3.762e+02 -3.762e+02 1.852e+02 -1.801e+02 -1.995e+00 1.995e+00 -7.930e+01 7.930e+01 5.731e+01 2.249e+01 1.632e+04 -  
9.011e+03  
90/ 1 3.960e+02 -3.960e+02 2.035e+02 -1.984e+02 1.078e-01 -1.078e-01 -7.930e+01 7.930e+01 -1.648e+01 1.217e+01 9.364e+03 -  
1.327e+03  
91/ 1 4.251e+02 -4.251e+02 1.650e+02 -1.599e+02 4.177e-01 -4.177e-01 -7.930e+01 7.930e+01 -7.676e+00 -9.034e+00 1.844e+03  
4.655e+03  
92/ 1 4.511e+02 -4.511e+02 9.856e+01 -9.344e+01 2.611e-01 -2.611e-01 -7.930e+01 7.930e+01 1.100e+01 -2.144e+01 -4.188e+03  
8.028e+03  
93/ 1 4.663e+02 -4.663e+02 3.395e+01 -2.883e+01 9.740e-02 -9.740e-02 -7.930e+01 7.930e+01 2.145e+01 -2.534e+01 -7.758e+03  
9.014e+03  
94/ 1 4.669e+02 -4.669e+02 -2.668e+01 3.180e+01 -5.477e-02 5.477e-02 -7.930e+01 7.930e+01 2.348e+01 -2.129e+01 -9.009e+03  
7.839e+03  
95/ 1 4.527e+02 -4.527e+02 -9.129e+01 9.641e+01 -2.509e-01 2.509e-01 -7.930e+01 7.930e+01 1.724e+01 -7.201e+00 -8.100e+03  
4.346e+03  
96/ 1 4.274e+02 -4.274e+02 -1.584e+02 1.635e+02 -1.952e-01 1.952e-01 -7.930e+01 7.930e+01 -8.577e-02 7.892e+00 -4.806e+03 -  
1.631e+03  
97/ 1 3.989e+02 -3.989e+02 -1.981e+02 2.032e+02 6.769e-01 -6.769e-01 -7.930e+01 7.930e+01 -1.969e+01 -7.382e+00 1.117e+03 -  
9.144e+03  
98/ 1 3.790e+02 -3.790e+02 -1.791e+02 1.842e+02 2.153e+00 -2.153e+00 -7.930e+01 7.930e+01 -5.630e+00 -8.048e+01 8.789e+03 -  
1.606e+04  
99/ 1 5.270e+02 -5.270e+02 1.338e+02 -1.287e+02 2.909e+00 -2.909e+00 -7.514e+01 7.514e+01 -8.968e+01 -2.670e+01 1.418e+04 -  
8.928e+03  
100/ 1 5.556e+02 -5.556e+02 1.951e+02 -1.900e+02 5.441e-01 -5.441e-01 -7.514e+01 7.514e+01 2.854e+01 -5.030e+01 9.236e+03 -  
1.535e+03  
101/ 1 5.937e+02 -5.937e+02 1.721e+02 -1.669e+02 -1.250e+00 1.250e+00 -7.514e+01 7.514e+01 6.698e+01 -1.697e+01 2.022e+03  
4.758e+03  
102/ 1 6.288e+02 -6.288e+02 1.083e+02 -1.032e+02 -1.948e+00 1.948e+00 -7.514e+01 7.514e+01 4.456e+01 3.338e+01 -4.280e+03  
8.510e+03  
103/ 1 6.527e+02 -6.527e+02 4.422e+01 -3.910e+01 -1.941e+00 1.941e+00 -7.514e+01 7.514e+01 -5.629e+00 8.327e+01 -8.174e+03  
9.840e+03  
104/ 1 6.610e+02 -6.610e+02 -1.373e+01 1.885e+01 -9.473e-01 9.473e-01 -7.514e+01 7.514e+01 -6.783e+01 1.057e+02 -9.703e+03  
9.051e+03  
105/ 1 6.531e+02 -6.531e+02 -6.974e+01 7.486e+01 1.123e+00 -1.123e+00 -7.514e+01 7.514e+01 -1.124e+02 6.745e+01 -9.102e+03  
6.210e+03  
106/ 1 6.314e+02 -6.314e+02 -1.127e+02 1.178e+02 2.862e+00 -2.862e+00 -7.514e+01 7.514e+01 -9.550e+01 -1.897e+01 -6.382e+03  
1.771e+03  
107/ 1 6.014e+02 -6.014e+02 -8.101e+01 8.613e+01 2.739e+00 -2.739e+00 -7.514e+01 7.514e+01 -1.678e+01 -9.278e+01 -1.956e+03 -  
1.386e+03  
108/ 1 5.720e+02 -5.720e+02 1.404e+02 -1.353e+02 -5.492e+00 5.492e+00 -7.514e+01 7.514e+01 7.148e+01 1.482e+02 1.289e+03  
4.226e+03  
109/ 1 -1.345e+02 1.345e+02 4.020e+02 -3.969e+02 1.677e+01 -1.677e+01 -4.147e+02 4.147e+02 1.194e+03 -1.865e+03 2.717e+04 -  
1.119e+04  
110/ 1 -1.339e+02 1.339e+02 2.994e+02 -2.943e+02 1.831e+01 -1.831e+01 -4.147e+02 4.147e+02 4.244e+02 -1.157e+03 1.196e+04 -  
8.740e+01  
111/ 1 -1.346e+02 1.346e+02 2.269e+02 -2.217e+02 1.625e+01 -1.625e+01 -4.147e+02 4.147e+02 -6.821e+02 3.214e+01 1.050e+03  
7.922e+03  
112/ 1 -1.367e+02 1.367e+02 1.523e+02 -1.472e+02 9.581e+00 -9.581e+00 -4.147e+02 4.147e+02 -1.647e+03 1.263e+03 -7.081e+03  
1.307e+04  
113/ 1 -1.396e+02 1.396e+02 7.654e+01 -7.142e+01 -8.281e-02 8.281e-02 -4.147e+02 4.147e+02 -2.283e+03 2.286e+03 -1.254e+04  
1.550e+04  
114/ 1 -1.428e+02 1.428e+02 7.555e-01 4.365e+00 -9.723e+00 9.723e+00 -4.147e+02 4.147e+02 -2.531e+03 2.920e+03 -1.538e+04  
1.531e+04  
115/ 1 -1.463e+02 1.463e+02 -7.265e+01 7.777e+01 -1.373e+01 1.373e+01 -4.147e+02 4.147e+02 -2.372e+03 2.921e+03 -1.562e+04  
1.261e+04  
116/ 1 -1.506e+02 1.506e+02 -1.454e+02 1.505e+02 -1.618e+01 1.618e+01 -4.147e+02 4.147e+02 -1.681e+03 2.329e+03 -1.332e+04  
7.402e+03  
117/ 1 -1.563e+02 1.563e+02 -2.313e+02 2.364e+02 -4.975e+01 4.975e+01 -4.147e+02 4.147e+02 -6.181e+02 2.608e+03 -8.387e+03 -  
9.660e+02  
118/ 1 -1.617e+02 1.617e+02 -3.386e+02 3.437e+02 -2.092e+02 2.092e+02 -4.147e+02 4.147e+02 -9.372e+02 9.307e+03 -2.379e+01 -  
1.362e+04  
119/ 1 -1.853e+02 1.853e+02 3.672e+02 -3.621e+02 -2.035e+02 2.035e+02 -1.315e+02 1.315e+02 8.791e+03 -6.502e+02 1.569e+04 -  
1.101e+03  
120/ 1 -1.787e+02 1.787e+02 2.579e+02 -2.528e+02 -4.768e+01 4.768e+01 -1.315e+02 1.315e+02 2.388e+03 -4.814e+02 2.136e+03  
8.078e+03  
121/ 1 -1.718e+02 1.718e+02 1.659e+02 -1.607e+02 -1.600e+01 1.600e+01 -1.315e+02 1.315e+02 2.293e+03 -1.653e+03 -7.052e+03  
1.358e+04  
122/ 1 -1.664e+02 1.664e+02 8.658e+01 -8.146e+01 -1.466e+01 1.466e+01 -1.315e+02 1.315e+02 2.994e+03 -2.407e+03 -1.285e+04  
1.621e+04  
123/ 1 -1.621e+02 1.621e+02 5.602e+00 -4.820e-01 -9.283e+00 9.283e+00 -1.315e+02 1.315e+02 3.028e+03 -2.657e+03 -1.588e+04  
1.600e+04

124/	1	-1.582e+02	1.582e+02	-7.656e+01	8.168e+01	-1.100e+00	1.100e+00	-1.315e+02	1.315e+02	2.451e+03	-2.407e+03	-1.611e+04
1.295e+04												
125/	1	-1.546e+02	1.546e+02	-1.581e+02	1.633e+02	5.709e+00	-5.709e+00	-1.315e+02	1.315e+02	1.409e+03	-1.637e+03	-1.348e+04
7.054e+03												
126/	1	-1.518e+02	1.518e+02	-2.382e+02	2.433e+02	8.846e+00	-8.846e+00	-1.315e+02	1.315e+02	3.932e+01	-3.932e+02	-7.900e+03
1.730e+03												
127/	1	-1.505e+02	1.505e+02	-3.164e+02	3.215e+02	7.717e+00	-7.717e+00	-1.315e+02	1.315e+02	-1.429e+03	1.120e+03	7.652e+02
1.352e+04												
128/	1	-1.505e+02	1.505e+02	-4.178e+02	4.229e+02	1.010e+01	-1.010e+01	-1.315e+02	1.315e+02	-2.548e+03	2.144e+03	1.275e+04
2.957e+04												
129/	1	-5.638e+01	5.638e+01	3.636e+02	-3.585e+02	4.009e+01	-4.009e+01	-1.311e+02	1.311e+02	-3.736e+03	2.132e+03	2.640e+04
1.195e+04												
130/	1	-5.308e+01	5.308e+01	2.834e+02	-2.783e+02	-7.779e+00	7.779e+00	-1.311e+02	1.311e+02	-9.840e+02	1.295e+03	1.250e+04
1.265e+03												
131/	1	-5.115e+01	5.115e+01	2.075e+02	-2.024e+02	-1.455e+01	1.455e+01	-1.311e+02	1.311e+02	2.422e+02	3.396e+02	1.998e+03
6.200e+03												
132/	1	-5.044e+01	5.044e+01	1.269e+02	-1.217e+02	-9.952e+00	9.952e+00	-1.312e+02	1.312e+02	9.915e+02	-5.934e+02	-5.565e+03
1.054e+04												
133/	1	-5.023e+01	5.023e+01	4.550e+01	-4.038e+01	-3.638e+00	3.638e+00	-1.312e+02	1.312e+02	1.355e+03	-1.210e+03	-1.017e+04
1.189e+04												
134/	1	-5.013e+01	5.013e+01	-3.611e+01	4.123e+01	3.232e+00	-3.232e+00	-1.312e+02	1.312e+02	1.236e+03	-1.365e+03	-1.188e+04
1.033e+04												
135/	1	-5.012e+01	5.012e+01	-1.174e+02	1.226e+02	9.466e+00	-9.466e+00	-1.312e+02	1.312e+02	6.513e+02	-1.030e+03	-1.067e+04
5.871e+03												
136/	1	-5.059e+01	5.059e+01	-1.981e+02	2.032e+02	1.402e+01	-1.402e+01	-1.311e+02	1.311e+02	-2.628e+02	-2.979e+02	-6.487e+03
1.538e+03												
137/	1	-5.229e+01	5.229e+01	-2.747e+02	2.798e+02	9.053e+00	-9.053e+00	-1.311e+02	1.311e+02	-1.221e+03	8.590e+02	8.172e+02
1.191e+04												
138/	1	-5.544e+01	5.544e+01	-3.582e+02	3.633e+02	-3.106e+01	3.106e+01	-1.311e+02	1.311e+02	-2.016e+03	3.258e+03	1.136e+04
2.579e+04												
139/	1	-1.467e+02	1.467e+02	4.176e+02	-4.125e+02	-3.469e+00	3.469e+00	2.561e+02	-2.561e+02	-2.179e+03	2.318e+03	2.910e+04
1.250e+04												
140/	1	-1.464e+02	1.464e+02	3.195e+02	-3.144e+02	-8.851e+00	8.851e+00	2.561e+02	-2.561e+02	-9.014e+02	1.255e+03	1.328e+04
5.978e+02												
141/	1	-1.475e+02	1.475e+02	2.420e+02	-2.369e+02	-1.165e+01	1.165e+01	2.561e+02	-2.561e+02	5.785e+02	-1.124e+02	1.576e+03
8.001e+03												
142/	1	-1.501e+02	1.501e+02	1.619e+02	-1.568e+02	-8.396e+00	8.396e+00	2.561e+02	-2.561e+02	1.738e+03	-1.402e+03	-7.138e+03
1.351e+04												
143/	1	-1.534e+02	1.534e+02	8.023e+01	-7.511e+01	-1.377e+00	1.377e+00	2.561e+02	-2.561e+02	2.433e+03	-2.378e+03	-1.296e+04
1.607e+04												
144/	1	-1.572e+02	1.572e+02	-2.096e+00	7.216e+00	7.204e+00	-7.204e+00	2.561e+02	-2.561e+02	2.614e+03	-2.902e+03	-1.594e+04
1.575e+04												
145/	1	-1.613e+02	1.613e+02	-8.324e+01	8.836e+01	1.296e+01	-1.296e+01	2.561e+02	-2.561e+02	2.302e+03	-2.821e+03	-1.607e+04
1.264e+04												
146/	1	-1.663e+02	1.663e+02	-1.626e+02	1.678e+02	1.461e+01	-1.461e+01	2.561e+02	-2.561e+02	1.486e+03	-2.070e+03	-1.338e+04
6.772e+03												
147/	1	-1.728e+02	1.728e+02	-2.559e+02	2.610e+02	4.914e+01	-4.914e+01	2.561e+02	-2.561e+02	2.424e+02	-2.208e+03	-7.807e+03
2.531e+03												
148/	1	-1.793e+02	1.793e+02	-3.672e+02	3.724e+02	2.098e+02	-2.098e+02	2.561e+02	-2.561e+02	4.348e+02	-8.827e+03	1.479e+03
1.627e+04												
149/	1	1.110e+02	-1.110e+02	3.641e+02	-3.590e+02	-2.036e+02	2.036e+02	3.393e+02	-3.393e+02	9.734e+03	-1.590e+03	1.549e+04
1.032e+03												
150/	1	1.122e+02	-1.122e+02	2.712e+02	-2.661e+02	-8.679e+01	8.679e+01	3.393e+02	-3.393e+02	3.737e+03	-2.661e+02	2.164e+03
8.583e+03												
151/	1	1.138e+02	-1.138e+02	1.691e+02	-1.640e+02	-3.119e+01	3.119e+01	3.393e+02	-3.393e+02	2.527e+03	-1.279e+03	-7.414e+03
1.408e+04												
152/	1	1.150e+02	-1.150e+02	8.484e+01	-7.972e+01	-1.798e+01	1.798e+01	3.393e+02	-3.393e+02	2.961e+03	-2.242e+03	-1.321e+04
1.650e+04												
153/	1	1.157e+02	-1.157e+02	4.085e+00	1.035e+00	-1.314e+01	1.314e+01	3.393e+02	-3.393e+02	3.120e+03	-2.594e+03	-1.605e+04
1.611e+04												
154/	1	1.161e+02	-1.161e+02	-7.654e+01	8.166e+01	-8.610e+00	8.610e+00	3.393e+02	-3.393e+02	2.606e+03	-2.262e+03	-1.612e+04
1.296e+04												
155/	1	1.165e+02	-1.165e+02	-1.563e+02	1.615e+02	-6.028e+00	6.028e+00	3.393e+02	-3.393e+02	1.458e+03	-1.217e+03	-1.340e+04
7.044e+03												
156/	1	1.164e+02	-1.164e+02	-2.371e+02	2.423e+02	-1.077e+00	1.077e+00	3.393e+02	-3.393e+02	-2.469e+02	2.900e+02	-7.827e+03
1.760e+03												
157/	1	1.152e+02	-1.152e+02	-3.250e+02	3.301e+02	2.068e+01	-2.068e+01	3.393e+02	-3.393e+02	-2.110e+03	1.283e+03	8.020e+02
1.390e+04												
158/	1	1.126e+02	-1.126e+02	-4.317e+02	4.368e+02	3.579e+01	-3.579e+01	3.393e+02	-3.393e+02	-2.840e+03	1.409e+03	1.309e+04
3.046e+04												
159/	1	1.029e+02	-1.029e+02	4.037e+02	-3.986e+02	-5.098e+01	5.098e+01	-1.788e+01	1.788e+01	-5.976e+02	2.637e+03	2.794e+04
1.189e+04												
160/	1	1.060e+02	-1.060e+02	2.917e+02	-2.866e+02	-2.335e+01	2.335e+01	-1.788e+01	1.788e+01	-1.169e+03	2.102e+03	1.259e+04
1.027e+03												
161/	1	1.075e+02	-1.075e+02	2.060e+02	-2.008e+02	-6.606e+00	6.606e+00	-1.788e+01	1.788e+01	-3.932e+02	6.574e+02	1.875e+03
6.261e+03												
162/	1	1.081e+02	-1.081e+02	1.262e+02	-1.211e+02	-4.194e+00	4.194e+00	-1.788e+01	1.788e+01	7.266e+02	-5.588e+02	-5.556e+03
1.050e+04												
163/	1	1.085e+02	-1.085e+02	4.666e+01	-4.154e+01	-2.148e+00	2.148e+00	-1.788e+01	1.788e+01	1.340e+03	-1.254e+03	-1.009e+04
1.186e+04												
164/	1	1.090e+02	-1.090e+02	-3.363e+01	3.875e+01	1.607e+00	-1.607e+00	-1.788e+01	1.788e+01	1.304e+03	-1.368e+03	-1.182e+04
1.037e+04												
165/	1	1.096e+02	-1.096e+02	-1.132e+02	1.183e+02	3.603e+00	-3.603e+00	-1.788e+01	1.788e+01	6.857e+02	-8.299e+02	-1.070e+04
6.069e+03												
166/	1	1.101e+02	-1.101e+02	-1.927e+02	1.979e+02	5.583e+00	-5.583e+00	-1.788e+01	1.788e+01	-4.620e+02	2.387e+02	-6.701e+03
1.111e+03												
167/	1	1.096e+02	-1.096e+02	-2.785e+02	2.836e+02	2.232e+01	-2.232e+01	-1.788e+01	1.788e+01	-1.870e+03	9.776e+02	3.230e+02
1.157e+04												
168/	1	1.076e+02	-1.076e+02	-3.923e+02	3.974e+02	5.427e+01	-5.427e+01	-1.788e+01	1.788e+01	-2.398e+03	2.275e+02	1.090e+04
2.670e+04												
169/	1	1.297e+02	-1.297e+02	4.320e+02	-4.269e+02	-3.949e+01	3.949e+01	-3.028e+02	3.028e+02	-8.464e+02	2.426e+03	2.967e+04
1.249e+04												
170/	1	1.334e+02	-1.334e+02	3.266e+02	-3.214e+02	-2.741e+01	2.741e+01	-3.028e+02	3.028e+02	-8.069e+02	1.903e+03	1.333e+04
3.690e+02												
171/	1	1.358e+02	-1.358e+02	2.383e+02	-2.332e+02	-4.845e+00	4.845e+00	-3.028e+02	3.028e+02	9.469e+00	1.843e+02	1.359e+03
8.073e+03												
172/	1	1.370e+02	-1.370e+02	1.573e+02	-1.522e+02	6.254e-01	-6.254e-01	-3.028e+02	3.028e+02	1.383e+03	-1.408e+03	-7.258e+03
1.345e+04												
173/	1	1.377e+02	-1.377e+02	7.745e+01	-7.233e+01	3.400e+00	-3.400e+00	-3.028e+02	3.028e+02	2.320e+03	-2.456e+03	-1.298e+04
1.597e+04												
174/	1	1.384e+02	-1.384e+02	-3.421e+00	8.541e+00	8.518e+00	-8.518e+00	-3.028e+02	3.028e+02	2.547e+03	-2.888e+03	-1.594e+04
1.570e+04												
175/	1	1.388e+02	-1.388e+02	-8.434e+0								



6.687e+03 177/ 1 1.389e+02 -1.389e+02 -2.691e+02 2.742e+02 7.858e+01 -7.858e+01 -3.028e+02 3.028e+02 -1.039e+02 -3.039e+03 -7.842e+03 -
3.022e+03 178/ 1 1.391e+02 -1.391e+02 -3.708e+02 3.759e+02 2.165e+02 -2.165e+02 -3.028e+02 3.028e+02 9.399e+02 -9.601e+03 1.888e+03 -
1.682e+04 179/ 1 6.032e+02 -6.032e+02 2.084e+02 -2.033e+02 -1.539e+02 1.539e+02 -1.547e+02 1.547e+02 8.608e+03 -2.453e+03 8.108e+03
1.280e+02 180/ 1 5.809e+02 -5.809e+02 1.570e+02 -1.519e+02 -9.103e+01 9.103e+01 -1.547e+02 1.547e+02 3.687e+03 -4.538e+01 1.656e+02
6.012e+03 181/ 1 5.574e+02 -5.574e+02 9.288e+01 -8.776e+01 -4.104e+01 4.104e+01 -1.547e+02 1.547e+02 1.338e+03 3.037e+02 -5.689e+03
9.302e+03 182/ 1 5.399e+02 -5.399e+02 3.985e+01 -3.473e+01 -1.742e+01 1.742e+01 -1.547e+02 1.547e+02 6.639e+02 3.269e+01 -9.065e+03
1.056e+04 183/ 1 5.307e+02 -5.307e+02 -6.682e+00 1.180e+01 -9.221e+00 9.221e+00 -1.547e+02 1.547e+02 4.738e+02 -1.050e+02 -1.043e+04
1.006e+04 184/ 1 5.304e+02 -5.304e+02 -5.160e+01 5.672e+01 -4.869e+00 4.869e+00 -1.547e+02 1.547e+02 1.207e+02 7.404e+01 -1.006e+04
7.891e+03 185/ 1 5.384e+02 -5.384e+02 -9.559e+01 1.007e+02 -2.709e+00 2.709e+00 -1.547e+02 1.547e+02 -5.187e+02 6.271e+02 -7.991e+03
4.065e+03 186/ 1 5.533e+02 -5.533e+02 -1.402e+02 1.454e+02 1.005e+00 -1.005e+00 -1.547e+02 1.547e+02 -1.450e+03 1.410e+03 -4.257e+03 -
1.454e+03 187/ 1 5.722e+02 -5.722e+02 -1.990e+02 2.041e+02 3.833e+01 -3.833e+01 -1.547e+02 1.547e+02 -2.462e+03 9.293e+02 1.193e+03 -
9.257e+03 188/ 1 5.893e+02 -5.893e+02 -3.250e+02 3.301e+02 2.095e+02 -2.095e+02 -1.547e+02 1.547e+02 -1.894e+03 -6.485e+03 9.004e+03 -
2.211e+04 189/ 1 1.052e+02 -1.052e+02 2.938e+02 -2.887e+02 -2.008e+02 2.008e+02 3.028e+02 -3.028e+02 6.820e+03 1.212e+03 1.827e+04 -
6.623e+03 190/ 1 8.909e+01 -8.909e+01 1.724e+02 -1.673e+02 -4.038e+01 4.038e+01 3.028e+02 -3.028e+02 -3.257e+02 1.941e+03 6.920e+03 -
1.267e+02 191/ 1 7.123e+01 -7.123e+01 1.158e+02 -1.106e+02 -8.207e+00 8.207e+00 3.028e+02 -3.028e+02 -9.664e+02 1.295e+03 4.137e+02
4.114e+03 192/ 1 5.703e+01 -5.703e+01 7.180e+01 -6.668e+01 -6.135e+00 6.135e+00 3.028e+02 -3.028e+02 -5.202e+02 7.656e+02 -3.903e+03
6.673e+03 193/ 1 4.894e+01 -4.894e+01 2.748e+01 -2.236e+01 -3.198e+00 3.198e+00 3.028e+02 -3.028e+02 -3.234e+02 4.513e+02 -6.559e+03
7.555e+03 194/ 1 4.813e+01 -4.813e+01 -1.787e+01 2.299e+01 2.199e+00 -2.199e+00 3.028e+02 -3.028e+02 -4.060e+02 3.180e+02 -7.547e+03
6.729e+03 195/ 1 5.462e+01 -5.462e+01 -6.225e+01 6.737e+01 5.280e+00 -5.280e+00 3.028e+02 -3.028e+02 -6.708e+02 4.596e+02 -6.827e+03
4.234e+03 196/ 1 6.729e+01 -6.729e+01 -1.061e+02 1.112e+02 7.014e+00 -7.014e+00 3.028e+02 -3.028e+02 -1.148e+03 8.676e+02 -4.427e+03
8.248e+01 197/ 1 8.375e+01 -8.375e+01 -1.612e+02 1.663e+02 3.555e+01 -3.555e+01 3.028e+02 -3.028e+02 -1.764e+03 3.415e+02 -3.523e+02 -
6.197e+03 198/ 1 9.885e+01 -9.885e+01 -2.780e+02 2.831e+02 1.851e+02 -1.851e+02 3.028e+02 -3.028e+02 -1.169e+03 -6.235e+03 5.913e+03 -
1.714e+04 199/ 1 5.758e+02 -5.758e+02 3.331e+02 -3.279e+02 -2.346e+02 2.346e+02 -1.883e+02 1.883e+02 7.915e+03 1.468e+03 2.170e+04 -
8.482e+03 200/ 1 5.575e+02 -5.575e+02 2.005e+02 -1.954e+02 -4.775e+01 4.775e+01 -1.883e+02 1.883e+02 -4.399e+02 2.350e+03 8.756e+03 -
8.380e+02 201/ 1 5.371e+02 -5.371e+02 1.399e+02 -1.347e+02 -6.005e+00 6.005e+00 -1.883e+02 1.883e+02 -1.219e+03 1.459e+03 1.128e+03
4.364e+03 202/ 1 5.207e+02 -5.207e+02 9.515e+01 -9.003e+01 -2.146e+00 2.146e+00 -1.883e+02 1.883e+02 -5.570e+02 6.428e+02 -4.140e+03
7.843e+03 203/ 1 5.112e+02 -5.112e+02 5.121e+01 -4.609e+01 -1.187e-01 1.187e-01 -1.883e+02 1.883e+02 -1.193e+02 1.240e+02 -7.710e+03
9.656e+03 204/ 1 5.100e+02 -5.100e+02 6.049e+00 -9.291e-01 4.823e+00 -4.823e+00 -1.883e+02 1.883e+02 -6.357e+01 -1.294e+02 -9.627e+03
9.766e+03 205/ 1 5.177e+02 -5.177e+02 -4.098e+01 4.610e+01 1.421e+01 -1.421e+01 -1.883e+02 1.883e+02 -3.044e+02 -2.640e+02 -9.849e+03
8.107e+03 206/ 1 5.337e+02 -5.337e+02 -9.384e+01 9.896e+01 3.742e+01 -3.742e+01 -1.883e+02 1.883e+02 -6.314e+02 -8.653e+02 -8.300e+03
4.444e+03 207/ 1 5.556e+02 -5.556e+02 -1.527e+02 1.578e+02 7.495e+01 -7.495e+01 -1.883e+02 1.883e+02 -3.527e+02 -2.645e+03 -4.714e+03 -
1.497e+03 208/ 1 5.768e+02 -5.768e+02 -1.851e+02 1.903e+02 9.262e+01 -9.262e+01 -1.883e+02 1.883e+02 1.464e+03 -5.169e+03 1.254e+03 -
8.763e+03 209/ 1 6.106e+02 -6.106e+02 2.097e+02 -2.046e+02 1.573e+02 -1.573e+02 1.596e+02 -1.596e+02 -8.780e+03 2.489e+03 8.145e+03
1.398e+02 210/ 1 5.881e+02 -5.881e+02 1.573e+02 -1.521e+02 9.208e+01 -9.208e+01 1.596e+02 -1.596e+02 -3.730e+03 4.682e+01 1.566e+02
6.031e+03 211/ 1 5.645e+02 -5.645e+02 9.282e+01 -8.770e+01 4.134e+01 -4.134e+01 1.596e+02 -1.596e+02 -1.348e+03 -3.056e+02 -5.705e+03
9.315e+03 212/ 1 5.468e+02 -5.468e+02 3.977e+01 -3.465e+01 1.767e+01 -1.767e+01 1.596e+02 -1.596e+02 -6.709e+02 -3.585e+01 -9.076e+03
1.056e+04 213/ 1 5.374e+02 -5.374e+02 -6.746e+00 1.187e+01 9.517e+00 -9.517e+00 1.596e+02 -1.596e+02 -4.793e+02 9.866e+01 -1.044e+04
1.007e+04 214/ 1 5.370e+02 -5.370e+02 -5.166e+01 5.678e+01 5.160e+00 -5.160e+00 1.596e+02 -1.596e+02 -1.228e+02 -8.364e+01 -1.006e+04
7.887e+03 215/ 1 5.448e+02 -5.448e+02 -9.569e+01 1.008e+02 2.915e+00 -2.915e+00 1.596e+02 -1.596e+02 5.205e+02 -6.371e+02 -7.983e+03
4.053e+03 216/ 1 5.595e+02 -5.595e+02 -1.404e+02 1.455e+02 -8.377e-01 8.377e-01 1.596e+02 -1.596e+02 1.453e+03 -1.419e+03 -4.242e+03 -
1.474e+03 217/ 1 5.784e+02 -5.784e+02 -1.987e+02 2.038e+02 -3.714e+01 3.714e+01 1.596e+02 -1.596e+02 2.465e+03 -9.796e+02 1.217e+03 -
9.268e+03 218/ 1 5.954e+02 -5.954e+02 -3.228e+02 3.280e+02 -2.040e+02 2.040e+02 1.596e+02 -1.596e+02 1.940e+03 6.218e+03 9.019e+03 -
2.204e+04 219/ 1 1.500e+02 -1.500e+02 2.931e+02 -2.880e+02 2.078e+02 -2.078e+02 -3.107e+02 3.107e+02 -7.314e+03 -9.974e+02 1.792e+04 -
6.298e+03 220/ 1 1.337e+02 -1.337e+02 1.699e+02 -1.648e+02 4.319e+01 -4.319e+01 -3.107e+02 3.107e+02 1.025e+02 -1.830e+03 6.597e+03
9.656e+01 221/ 1 1.156e+02 -1.156e+02 1.128e+02 -1.077e+02 1.000e+01 -1.000e+01 -3.107e+02 3.107e+02 8.410e+02 -1.241e+03 1.930e+02
4.218e+03 222/ 1 1.011e+02 -1.011e+02 6.889e+01 -6.377e+01 7.926e+00 -7.926e+00 -3.107e+02 3.107e+02 4.496e+02 -7.667e+02 -4.006e+03
6.659e+03 223/ 1 9.275e+01 -9.275e+01 2.459e+01 -1.947e+01 5.029e+00 -5.029e+00 -3.107e+02 3.107e+02 3.064e+02 -5.076e+02 -6.543e+03
7.424e+03 224/ 1 9.162e+01 -9.162e+01 -2.078e+01 2.590e+01 -4.168e-01 4.168e-01 -3.107e+02 3.107e+02 4.440e+02 -4.274e+02 -7.414e+03
6.480e+03 225/ 1 9.781e+01 -9.781e+01 -6.520e+01 7.032e+01 -3.590e+00 3.590e+00 -3.107e+02 3.107e+02 7.626e+02 -6.190e+02 -6.574e+03
3.864e+03 226/ 1 1.102e+02 -1.102e+02 -1.090e+02 1.141e+02 -5.182e+00 5.182e+00 -3.107e+02 3.107e+02 1.291e+03 -1.084e+03 -4.053e+03 -
4.079e+02 227/ 1 1.264e+02 -1.264e+02 -1.634e+02 1.685e+02 -3.210e+01 3.210e+01 -3.107e+02 3.107e+02 1.966e+03 -6.825e+02 1.447e+02 -
6.782e+03 228/ 1 1.413e+02 -1.413e+02 -2.778e+02 2.829e+02 -1.759e+02 1.759e+02 -3.107e+02 3.107e+02 1.504e+03 5.531e+03 6.506e+03 -
1.772e+04





334/	1	-1.426e+02	1.426e+02	-7.314e+01	7.826e+01	4.716e-02	-4.716e-02	-2.484e+02	2.484e+02	2.270e+03	-2.272e+03	-1.582e+04
1.279e+04												
335/	1	-1.395e+02	1.395e+02	-1.490e+02	1.541e+02	9.834e+00	-9.834e+00	-2.484e+02	2.484e+02	1.261e+03	-1.654e+03	-1.330e+04
7.239e+03												
336/	1	-1.371e+02	1.371e+02	-2.234e+02	2.285e+02	1.624e+01	-1.624e+01	-2.484e+02	2.484e+02	2.879e+01	-6.783e+02	-8.058e+03
9.803e+02												
337/	1	-1.362e+02	1.362e+02	-2.961e+02	3.012e+02	1.856e+01	-1.856e+01	-2.484e+02	2.484e+02	-1.181e+03	4.388e+02	3.691e+01
1.198e+04												
338/	1	-1.365e+02	1.365e+02	-4.003e+02	4.055e+02	2.092e+01	-2.092e+01	-2.484e+02	2.484e+02	-1.902e+03	1.066e+03	1.122e+04
2.734e+04												
339/	1	-5.698e+01	5.698e+01	3.453e+02	-3.401e+02	2.830e+01	-2.830e+01	2.239e+01	-2.239e+01	-2.974e+03	1.842e+03	2.502e+04
1.131e+04												
340/	1	-5.387e+01	5.387e+01	2.615e+02	-2.564e+02	-1.809e+01	1.809e+01	2.239e+01	-2.239e+01	-6.754e+02	1.399e+03	1.187e+04
1.508e+03												
341/	1	-5.209e+01	5.209e+01	1.918e+02	-1.867e+02	-2.288e+01	2.288e+01	2.239e+01	-2.239e+01	1.683e+02	7.469e+02	2.250e+03
5.322e+03												
342/	1	-5.149e+01	5.149e+01	1.170e+02	-1.119e+02	-1.544e+01	1.544e+01	2.239e+01	-2.239e+01	6.174e+02	-1.250e-02	-4.680e+03
9.257e+03												
343/	1	-5.134e+01	5.134e+01	4.137e+01	-3.625e+01	-6.183e+00	6.183e+00	2.239e+01	-2.239e+01	7.917e+02	-5.444e+02	-8.887e+03
1.044e+04												
344/	1	-5.125e+01	5.125e+01	-3.448e+01	3.960e+01	3.629e+00	-3.629e+00	2.239e+01	-2.239e+01	5.930e+02	-7.381e+02	-1.042e+04
8.942e+03												
345/	1	-5.119e+01	5.119e+01	-1.101e+02	1.153e+02	1.298e+01	-1.298e+01	2.239e+01	-2.239e+01	4.092e+01	-5.600e+02	-9.280e+03
4.772e+03												
346/	1	-5.158e+01	5.158e+01	-1.850e+02	1.901e+02	2.040e+01	-2.040e+01	2.239e+01	-2.239e+01	-7.179e+02	-9.803e+01	-5.384e+03
2.118e+03												
347/	1	-5.315e+01	5.315e+01	-2.547e+02	2.598e+02	1.554e+01	-1.554e+01	2.239e+01	-2.239e+01	-1.397e+03	7.760e+02	1.402e+03
1.169e+04												
348/	1	-5.610e+01	5.610e+01	-3.389e+02	3.440e+02	-2.960e+01	2.960e+01	2.239e+01	-2.239e+01	-1.896e+03	3.080e+03	1.115e+04
2.481e+04												
349/	1	-1.405e+02	1.405e+02	4.060e+02	-4.009e+02	-2.281e+01	2.281e+01	4.094e+02	-4.094e+02	-8.400e+02	1.752e+03	2.730e+04
1.117e+04												
350/	1	-1.399e+02	1.399e+02	3.023e+02	-2.972e+02	-2.179e+01	2.179e+01	4.094e+02	-4.094e+02	-2.424e+02	1.114e+03	1.195e+04
3.942e+01												
351/	1	-1.407e+02	1.407e+02	2.295e+02	-2.244e+02	-1.924e+01	1.924e+01	4.094e+02	-4.094e+02	8.156e+02	-4.583e+01	9.385e+02
8.140e+03												
352/	1	-1.429e+02	1.429e+02	1.550e+02	-1.499e+02	-1.264e+01	1.264e+01	4.094e+02	-4.094e+02	1.753e+03	-1.248e+03	-7.283e+03
1.338e+04												
353/	1	-1.458e+02	1.458e+02	7.917e+01	-7.405e+01	-2.831e+00	2.831e+00	4.094e+02	-4.094e+02	2.345e+03	-2.231e+03	-1.284e+04
1.590e+04												
354/	1	-1.490e+02	1.490e+02	2.726e+00	2.394e+00	8.385e+00	-8.385e+00	4.094e+02	-4.094e+02	2.519e+03	-2.854e+03	-1.577e+04
1.577e+04												
355/	1	-1.526e+02	1.526e+02	-7.253e+01	7.765e+01	1.678e+01	-1.678e+01	4.094e+02	-4.094e+02	2.293e+03	-2.964e+03	-1.609e+04
1.308e+04												
356/	1	-1.572e+02	1.572e+02	-1.460e+02	1.511e+02	2.084e+01	-2.084e+01	4.094e+02	-4.094e+02	1.659e+03	-2.492e+03	-1.379e+04
7.853e+03												
357/	1	-1.631e+02	1.631e+02	-2.326e+02	2.377e+02	5.619e+01	-5.619e+01	4.094e+02	-4.094e+02	6.885e+02	-2.936e+03	-8.849e+03
5.556e+02												
358/	1	-1.687e+02	1.687e+02	-3.426e+02	3.477e+02	2.220e+02	-2.220e+02	4.094e+02	-4.094e+02	1.178e+03	-1.006e+04	-4.497e+02
1.336e+04												
359/	1	-1.715e+00	1.715e+00	3.034e+02	-2.983e+02	-1.715e+02	1.715e+02	4.627e+02	-4.627e+02	1.015e+04	-3.294e+03	9.606e+03
2.427e+03												
360/	1	-1.375e+00	1.375e+00	2.338e+02	-2.287e+02	-1.002e+02	1.002e+02	4.627e+02	-4.627e+02	5.380e+03	-1.372e+03	-1.470e+03
1.072e+04												
361/	1	-4.873e-01	4.873e-01	1.427e+02	-1.376e+02	-4.470e+01	4.470e+01	4.627e+02	-4.627e+02	3.611e+03	-1.823e+03	-9.707e+03
1.531e+04												
362/	1	4.040e-02	-4.040e-02	6.669e+01	-6.157e+01	-2.530e+01	2.530e+01	4.627e+02	-4.627e+02	3.491e+03	-2.479e+03	-1.455e+04
1.712e+04												
363/	1	1.634e-01	-1.634e-01	-5.016e+00	1.014e+01	-1.594e+01	1.594e+01	4.627e+02	-4.627e+02	3.322e+03	-2.685e+03	-1.671e+04
1.641e+04												
364/	1	1.817e-01	-1.817e-01	-7.622e+01	8.134e+01	-7.271e+00	7.271e+00	4.627e+02	-4.627e+02	2.634e+03	-2.343e+03	-1.639e+04
1.324e+04												
365/	1	2.007e-01	-2.007e-01	-1.464e+02	1.515e+02	-4.383e-01	4.383e-01	4.627e+02	-4.627e+02	1.448e+03	-1.430e+03	-1.359e+04
7.633e+03												
366/	1	-4.706e-02	4.706e-02	-2.171e+02	2.223e+02	8.673e+00	-8.673e+00	4.627e+02	-4.627e+02	-1.451e+02	-2.018e+02	-8.278e+03
5.093e+02												
367/	1	-1.258e+00	1.258e+00	-2.949e+02	3.000e+02	3.524e+01	-3.524e+01	4.627e+02	-4.627e+02	-1.736e+03	3.260e+02	-2.979e+02
1.160e+04												
368/	1	-3.833e+00	3.833e+00	-3.994e+02	4.045e+02	6.088e+01	-6.088e+01	4.627e+02	-4.627e+02	-1.983e+03	-4.525e+02	1.090e+04
2.698e+04												
369/	1	-1.466e+01	1.466e+01	3.588e+02	-3.537e+02	-6.983e+01	6.983e+01	-7.960e+00	7.960e+00	4.409e+02	2.352e+03	2.558e+04
1.133e+04												
370/	1	-1.141e+01	1.141e+01	2.533e+02	-2.481e+02	-4.155e+01	4.155e+01	-7.961e+00	7.961e+00	-8.246e+02	2.486e+03	1.194e+04
1.916e+03												
371/	1	-9.717e+00	9.717e+00	1.779e+02	-1.728e+02	-2.006e+01	2.006e+01	-7.962e+00	7.962e+00	-6.944e+02	1.497e+03	2.643e+03
4.370e+03												
372/	1	-9.116e+00	9.116e+00	1.083e+02	-1.032e+02	-1.266e+01	1.266e+01	-7.963e+00	7.963e+00	-3.618e+01	5.426e+02	-3.777e+03
8.007e+03												
373/	1	-8.799e+00	8.799e+00	3.892e+01	-3.380e+01	-5.910e+00	5.910e+00	-7.964e+00	7.964e+00	2.910e+02	-5.456e+01	-7.668e+03
9.122e+03												
374/	1	-8.450e+00	8.450e+00	-3.118e+01	3.630e+01	2.499e+00	-2.499e+00	-7.964e+00	7.964e+00	1.248e+02	-2.248e+02	-9.094e+03
7.745e+03												
375/	1	-8.062e+00	8.062e+00	-1.006e+02	1.057e+02	9.238e+00	-9.238e+00	-7.963e+00	7.963e+00	-4.699e+02	1.004e+02	-8.027e+03
3.903e+03												
376/	1	-7.945e+00	7.945e+00	-1.700e+02	1.752e+02	1.640e+01	-1.640e+01	-7.962e+00	7.962e+00	-1.428e+03	7.723e+02	-4.443e+03
2.461e+03												
377/	1	-8.914e+00	8.914e+00	-2.450e+02	2.501e+02	3.699e+01	-3.699e+01	-7.961e+00	7.961e+00	-2.445e+03	9.650e+02	1.782e+03
1.169e+04												
378/	1	-1.150e+01	1.150e+01	-3.494e+02	3.545e+02	6.249e+01	-6.249e+01	-7.959e+00	7.959e+00	-2.403e+03	-9.689e+01	1.111e+04
2.519e+04												
379/	1	2.043e+01	-2.043e+01	4.062e+02	-4.011e+02	-7.208e+01	7.208e+01	-3.796e+02	3.796e+02	1.158e+03	1.725e+03	2.676e+04
1.062e+04												
380/	1	2.380e+01	-2.380e+01	3.000e+02	-2.949e+02	-4.222e+01	4.222e+01	-3.796e+02	3.796e+02	3.622e+01	1.653e+03	1.135e+04
5.486e+02												
381/	1	2.584e+01	-2.584e+01	2.216e+02	-2.165e+02	-1.380e+01	1.380e+01	-3.796e+02	3.796e+02	4.179e+02	1.342e+02	2.976e+02
8.464e+03												
382/	1	2.692e+01	-2.692e+01	1.508e+02	-1.457e+02	-4.259e+00	4.259e+00	-3.796e+02	3.796e+02	1.583e+03	-1.412e+03	-7.779e+03
1.371e+04												
383/	1	2.774e+01	-2.774e+01	8.079e+01	-7.567e+01	2.666e+00	-2.666e+00	-3.796e+02	3.796e+02	2.450e+03	-2.557e+03	-1.332e+04
1.645e+04												
384/	1	2.858e+01	-2.858e+01	9.721e+00	-4.601e+00	1.162e+01	-1.162e+01	-3.796e+02	3.796e+02	2.746e+03	-3.211e+03	-1.643e+04
1.671e+04												
385/	1	2.937e+01	-2.937e+01	-6.164e+01								



7.670e-14	16/ 1	3.263e+01	-6.786e+00	3.069e+01	3.069e+01	-4.522e+00	4.522e+00	-5.723e+01	5.723e+01	2.512e+02	2.533e+02	2.842e-14
0.000e+00	17/ 1	1.350e-12	8.440e+00	7.256e-13	2.000e+01	-2.670e-15	2.670e-15	6.202e-14	-6.202e-14	-1.203e-13	1.264e-14	5.441e-12
3.637e+02	18/ 1	1.111e+01	1.473e+01	3.456e+01	2.683e+01	4.223e-01	-4.223e-01	5.931e+01	-5.931e+01	-2.336e+01	-2.376e+01	4.312e+02
0.000e+00	19/ 1	1.890e+01	6.942e+00	3.069e+01	3.069e+01	4.547e-01	-4.547e-01	2.408e+01	-2.408e+01	-2.546e+01	-2.527e+01	0.000e+00
8.032e-14	20/ 1	3.107e+01	-5.234e+00	3.069e+01	3.069e+01	3.781e+00	-3.781e+00	3.232e+01	-3.232e+01	-2.099e+02	-2.120e+02	2.842e-14
0.000e+00	21/ 1	-1.314e-12	8.440e+00	1.101e-13	2.000e+01	-5.906e-15	5.906e-15	-2.495e-13	2.495e-13	1.695e-13	-3.900e-15	-1.601e-12
3.637e+02	22/ 1	8.871e+00	1.697e+01	3.482e+01	2.656e+01	8.683e+00	-8.683e+00	5.705e+01	-5.705e+01	-4.855e+02	-4.832e+02	4.609e+02
0.000e+00	23/ 1	1.455e+01	1.129e+01	3.069e+01	3.069e+01	8.715e+00	-8.715e+00	3.097e+01	-3.097e+01	-4.862e+02	-4.861e+02	0.000e+00
8.393e-14	24/ 1	2.515e+01	6.881e-01	3.069e+01	3.069e+01	1.177e+01	-1.177e+01	1.065e+02	-1.065e+02	-6.526e+02	-6.604e+02	2.842e-14
0.000e+00	25/ 1	3.585e-13	8.440e+00	1.557e-13	2.000e+01	-6.774e-16	6.774e-16	-5.350e-13	5.350e-13	-4.848e-13	1.354e-13	-1.371e-12
3.637e+02	26/ 1	1.024e+01	1.560e+01	3.513e+01	2.626e+01	1.545e+01	-1.545e+01	5.196e+01	-5.196e+01	-8.661e+02	-8.580e+02	4.946e+02
0.000e+00	27/ 1	1.828e+01	7.562e+00	3.069e+01	3.069e+01	1.522e+01	-1.522e+01	3.449e+01	-3.449e+01	-8.523e+02	-8.455e+02	0.000e+00
8.755e-14	28/ 1	2.525e+01	5.900e-01	3.069e+01	3.069e+01	1.760e+01	-1.760e+01	1.589e+02	-1.589e+02	-9.795e+02	-9.844e+02	2.842e-14
0.000e+00	29/ 1	-1.529e-12	8.440e+00	-9.781e-14	2.000e+01	2.165e-15	-2.165e-15	-2.389e-13	2.389e-13	-9.982e-13	9.844e-13	1.156e-12
3.637e+02	30/ 1	4.513e+01	-1.929e+01	3.546e+01	2.592e+01	1.948e+01	-1.948e+01	4.499e+01	-4.499e+01	-1.100e+03	-1.073e+03	5.320e+02
0.000e+00	31/ 1	7.196e+01	-4.612e+01	3.069e+01	3.069e+01	1.828e+01	-1.828e+01	3.639e+01	-3.639e+01	-1.033e+03	-1.006e+03	0.000e+00
9.116e-14	32/ 1	7.452e+01	-4.868e+01	3.069e+01	3.069e+01	1.925e+01	-1.925e+01	1.847e+02	-1.847e+02	-1.081e+03	-1.067e+03	2.842e-14
0.000e+00	33/ 1	1.005e-13	1.243e+01	-3.597e-14	2.947e+01	-1.020e-14	1.020e-14	-3.472e-13	3.472e-13	7.444e-13	1.673e-12	-1.120e-12
5.359e+02	34/ 1	1.941e+02	-1.560e+02	5.398e+01	3.645e+01	1.755e+01	-1.755e+01	3.671e+01	-3.671e+01	-1.012e+03	-9.464e+02	9.779e+02
2.842e-14	35/ 1	2.182e+02	-1.801e+02	4.522e+01	4.522e+01	1.498e+01	-1.498e+01	3.890e+01	-3.890e+01	-8.566e+02	-8.149e+02	0.000e+00
3.793e-14	36/ 1	2.206e+02	-1.825e+02	4.522e+01	4.522e+01	1.463e+01	-1.463e+01	1.710e+02	-1.710e+02	-8.333e+02	-7.988e+02	0.000e+00
0.000e+00	37/ 1	1.048e-12	1.243e+01	-4.834e-13	2.947e+01	2.874e-14	-2.874e-14	-1.076e-13	1.076e-13	-3.249e-14	-9.393e-13	-2.425e-13
5.359e+02	38/ 1	1.965e+02	-1.585e+02	5.405e+01	3.638e+01	-1.646e+01	1.646e+01	2.177e+01	-2.177e+01	9.508e+02	8.854e+02	9.853e+02
2.842e-14	39/ 1	2.236e+02	-1.855e+02	4.522e+01	4.522e+01	-1.319e+01	1.319e+01	4.803e+01	-4.803e+01	7.594e+02	7.122e+02	0.000e+00
4.114e-14	40/ 1	1.734e+02	-1.354e+02	4.522e+01	4.522e+01	-1.007e+01	1.007e+01	-1.071e+01	1.071e+01	5.767e+02	5.467e+02	0.000e+00
0.000e+00	41/ 1	-9.624e-13	8.440e+00	1.906e-13	2.000e+01	-1.139e-14	1.139e-14	9.837e-14	-9.837e-14	-1.653e-13	-1.353e-13	-1.825e-13
3.637e+02	42/ 1	4.293e+01	-1.709e+01	3.567e+01	2.572e+01	-1.816e+01	1.816e+01	1.609e+01	-1.609e+01	1.027e+03	9.996e+02	5.548e+02
0.000e+00	43/ 1	6.421e+01	-3.837e+01	3.069e+01	3.069e+01	-1.646e+01	1.646e+01	4.090e+01	-4.090e+01	9.312e+02	9.053e+02	0.000e+00
9.758e-14	44/ 1	5.898e+01	-3.314e+01	3.069e+01	3.069e+01	-1.466e+01	1.466e+01	-3.213e+01	3.213e+01	8.228e+02	8.131e+02	2.842e-14
0.000e+00	45/ 1	8.465e-13	8.440e+00	2.992e-13	2.000e+01	-7.987e-15	7.987e-15	-6.333e-14	6.333e-14	6.804e-13	-4.050e-13	-6.146e-13
3.637e+02	46/ 1	8.532e+00	1.731e+01	3.551e+01	2.587e+01	-1.441e+01	1.441e+01	9.274e+00	-9.274e+00	8.076e+02	8.005e+02	5.378e+02
0.000e+00	47/ 1	1.453e+01	1.131e+01	3.069e+01	3.069e+01	-1.380e+01	1.380e+01	2.839e+01	-2.839e+01	7.721e+02	7.678e+02	0.000e+00
9.717e-14	48/ 1	2.260e+01	3.242e+00	3.069e+01	3.069e+01	-1.319e+01	1.319e+01	-3.127e+01	3.127e+01	7.336e+02	7.382e+02	2.842e-14
0.000e+00	49/ 1	6.946e-13	8.440e+00	-1.481e-13	2.000e+01	1.950e-15	-1.950e-15	1.032e-14	-1.032e-14	2.235e-13	-5.284e-13	-1.221e-13
3.637e+02	50/ 1	9.613e+00	1.623e+01	3.542e+01	2.596e+01	-8.198e+00	8.198e+00	1.782e+00	-1.782e+00	4.580e+02	4.565e+02	5.275e+02
0.000e+00	51/ 1	1.492e+01	1.092e+01	3.069e+01	3.069e+01	-7.870e+00	7.870e+00	1.285e+01	-1.285e+01	4.382e+02	4.399e+02	0.000e+00
9.677e-14	52/ 1	2.500e+01	8.447e-01	3.069e+01	3.069e+01	-7.710e+00	7.710e+00	-1.797e+01	1.797e+01	4.269e+02	4.333e+02	2.842e-14
0.000e+00	53/ 1	2.151e-13	8.440e+00	2.761e-13	2.000e+01	6.708e-16	-6.708e-16	-1.476e-15	1.476e-15	-1.351e-14	2.111e-15	3.575e-13
3.637e+02	54/ 1	1.236e+01	1.348e+01	3.537e+01	2.601e+01	-8.037e-01	8.037e-01	-5.779e+00	5.779e+00	4.491e+01	4.476e+01	5.219e+02
0.000e+00	55/ 1	1.947e+01	6.366e+00	3.069e+01	3.069e+01	-4.439e-01	4.439e-01	-3.692e+00	3.692e+00	2.468e+01	2.484e+01	0.000e+00
9.636e-14	56/ 1	3.014e+01	-4.298e+00	3.069e+01	3.069e+01	-3.338e-01	3.338e-01	2.698e+00	-2.698e+00	1.850e+01	1.874e+01	2.842e-14
0.000e+00	57/ 1	-9.221e-13	8.440e+00	8.097e-13	2.000e+01	6.119e-15	-6.119e-15	-9.063e-14	9.063e-14	1.377e-14	2.846e-13	1.160e-12
3.637e+02	58/ 1	9.563e+00	1.628e+01	3.536e+01	2.602e+01	6.612e+00	-6.612e+00	-1.271e+01	1.271e+01	-3.694e+02	-3.682e+02	5.209e+02
0.000e+00	59/ 1	1.487e+01	1.097e+01	3.069e+01	3.069e+01	7.007e+00	-7.007e+00	-1.935e+01	1.935e+01	-3.901e+02	-3.916e+02	0.000e+00
9.596e-14	60/ 1	2.498e+01	8.629e-01	3.069e+01	3.069e+01	7.072e+00	-7.072e+00	2.351e+01	-2.351e+01	-3.915e+02	-3.975e+02	2.842e-14
0.000e+00	61/ 1	1.919e-12	8.440e+00	-9.721e-13	2.000e+01	2.765e-16	-2.765e-16	-8.772e-14	8.772e-14	-8.581e-14	2.353e-13	2.212e-13
3.637e+02	62/ 1	8.043e+00	1.780e+01	3.541e+01	2.598e+01	1.290e+01	-1.290e+01	-1.829e+01	1.829e+01	-7.229e+02	-7.162e+02	5.262e+02
0.000e+00	63/ 1	1.394e+01	1.190e+01	3.069e+01	3.069e+01	1.302e+01	-1.302e+01	-3.225e+01	3.225e+01	-7.285e+02	-7.242e+02	0.000e+00
9.556e-14	64/ 1	2.195e+01	3.894e+00	3.069e+01	3.069e+01	1.264e+01	-1.264e+01	3.721e+01	-3.721e+01	-7.031e+02	-7.076e+02	2.842e-14
0.000e+00	65/ 1	3.724e-13	8.440e+00	6.477e-13	2.000e+01	-2.195e-14	2.195e-14	1.450e-13	-1.450e-13	5.393e-13	1.488e-12	-7.150e-14
3.637e+02	66/ 1	4.129e+01	-1.545e+01	3.555e+01	2.584e+01	1.680e+01	-1.680e+01	-2.180e+01	2.180e+01	-9.504e+02	-9.236e+02	5.416e+02
0.000e+00	67/ 1	6.219e+01	-3.635e+01	3.069e+01	3.069e+01	1.584e+01	-1.584e+01	-4.035e+01	4.035e+01	-8.965e+02	-8.708e+02	0.000e+00
9.515e-14												

68/ 1 5.760e+01 -3.176e+01 3.069e+01 3.069e+01 1.428e+01 -1.428e+01 3.882e+01 -3.882e+01 -8.015e+02 -7.914e+02 2.842e-14  
0.000e+00  
69/ 1 -3.077e-13 1.243e+01 -2.334e-13 2.947e+01 1.007e-14 -1.007e-14 1.917e-13 -1.917e-13 5.255e-14 1.952e-13 6.826e-13 -  
5.359e+02  
70/ 1 1.946e+02 -1.566e+02 5.397e+01 3.647e+01 1.541e+01 -1.541e+01 -2.264e+01 2.264e+01 -8.927e+02 -8.267e+02 9.763e+02 -  
2.842e-14  
71/ 1 2.197e+02 -1.817e+02 4.522e+01 4.522e+01 1.285e+01 -1.285e+01 -4.131e+01 4.131e+01 -7.406e+02 -6.931e+02 0.000e+00 -  
3.790e-14  
72/ 1 1.740e+02 -1.360e+02 4.522e+01 4.522e+01 9.923e+00 -9.923e+00 1.894e+01 -1.894e+01 -5.692e+02 -5.379e+02 0.000e+00  
0.000e+00  
73/ 1 5.524e-13 1.243e+01 -1.003e-13 2.947e+01 -4.709e-14 4.709e-14 2.587e-13 -2.587e-13 -1.105e-13 7.251e-13 1.310e-13 -  
5.359e+02  
74/ 1 2.004e+02 -1.623e+02 5.412e+01 3.631e+01 -1.830e+01 1.830e+01 -2.716e+01 2.716e+01 1.054e+03 9.881e+02 9.931e+02 -  
2.842e-14  
75/ 1 2.733e-13 8.440e+00 1.600e-13 2.000e+01 -1.893e-15 1.893e-15 -4.490e-13 4.490e-13 7.467e-13 -8.344e-13 -2.962e-13 -  
3.637e+02  
76/ 1 4.738e+01 -2.154e+01 3.576e+01 2.563e+01 -2.028e+01 2.028e+01 -3.345e+01 3.345e+01 1.146e+03 1.118e+03 5.652e+02  
0.000e+00  
77/ 1 -6.220e-13 8.440e+00 5.148e-13 2.000e+01 4.140e-14 -4.140e-14 -2.343e-13 2.343e-13 -1.048e-13 -1.503e-12 9.184e-13 -  
3.637e+02  
78/ 1 1.040e+01 1.544e+01 3.563e+01 2.575e+01 -1.630e+01 1.630e+01 -4.058e+01 4.058e+01 9.134e+02 9.050e+02 5.512e+02  
0.000e+00  
79/ 1 -7.650e-13 8.440e+00 3.675e-14 2.000e+01 -1.930e-14 1.930e-14 6.593e-15 -6.593e-15 7.111e-13 3.342e-13 -4.078e-12 -  
3.637e+02  
80/ 1 9.417e+00 1.642e+01 3.558e+01 2.581e+01 -9.644e+00 9.644e+00 -4.844e+01 4.844e+01 5.389e+02 5.370e+02 5.448e+02  
0.000e+00  
81/ 1 2.281e+02 -1.900e+02 4.522e+01 4.522e+01 -1.493e+01 1.493e+01 -8.382e+00 8.382e+00 8.540e+02 8.113e+02 0.000e+00 -  
3.151e-14  
82/ 1 2.264e+02 -1.884e+02 4.522e+01 4.522e+01 -1.431e+01 1.431e+01 -1.593e+02 1.593e+02 8.156e+02 7.807e+02 0.000e+00  
0.000e+00  
83/ 1 7.547e+01 -4.963e+01 3.069e+01 3.069e+01 -1.824e+01 1.824e+01 2.460e+00 -2.460e+00 1.031e+03 1.004e+03 0.000e+00 -  
8.237e-14  
84/ 1 7.770e+01 -5.186e+01 3.069e+01 3.069e+01 -1.894e+01 1.894e+01 -1.709e+02 1.709e+02 1.064e+03 1.049e+03 2.842e-14  
0.000e+00  
85/ 1 1.858e+01 7.259e+00 3.069e+01 3.069e+01 -1.524e+01 1.524e+01 5.478e+00 -5.478e+00 8.534e+02 8.466e+02 0.000e+00 -  
7.639e-14  
86/ 1 2.582e+01 2.307e-02 3.069e+01 3.069e+01 -1.739e+01 1.739e+01 -1.436e+02 1.436e+02 9.679e+02 9.725e+02 2.842e-14  
0.000e+00  
87/ 1 1.527e+01 1.057e+01 3.069e+01 3.069e+01 -8.863e+00 8.863e+00 3.133e+00 -3.133e+00 4.940e+02 4.948e+02 0.000e+00 -  
7.041e-14  
88/ 1 2.575e+01 8.795e-02 3.069e+01 3.069e+01 -1.174e+01 1.174e+01 -9.122e+01 9.122e+01 6.506e+02 6.589e+02 2.842e-14  
0.000e+00  
89/ 1 -1.244e-12 8.440e+00 5.970e-13 2.000e+01 3.482e-15 -3.482e-15 4.419e-14 -4.419e-14 3.262e-14 -3.106e-13 -2.920e-12 -  
3.637e+02  
90/ 1 1.481e+01 1.103e+01 3.557e+01 2.582e+01 -1.627e+00 1.627e+00 -5.674e+01 5.674e+01 9.001e+01 9.148e+01 5.441e+02  
0.000e+00  
91/ 1 2.376e+01 2.080e+00 3.069e+01 3.069e+01 -8.557e-01 8.557e-01 -2.624e+00 2.624e+00 4.692e+01 4.856e+01 0.000e+00 -  
6.442e-14  
92/ 1 3.422e+01 -8.380e+00 3.069e+01 3.069e+01 -4.043e+00 4.043e+00 -1.854e+01 1.854e+01 2.241e+02 2.270e+02 2.842e-14  
0.000e+00  
93/ 1 3.295e+01 -7.111e+00 3.069e+01 3.069e+01 7.393e+00 -7.393e+00 -1.021e+01 1.021e+01 -4.134e+02 -4.114e+02 0.000e+00 -  
5.844e-14  
94/ 1 3.729e+01 -1.145e+01 3.069e+01 3.069e+01 3.896e+00 -3.896e+00 6.782e+01 -6.782e+01 -2.161e+02 -2.185e+02 2.842e-14  
0.000e+00  
95/ 1 -1.017e-12 8.440e+00 3.944e-13 2.000e+01 -4.368e-14 4.368e-14 1.648e-13 -1.648e-13 2.848e-15 2.242e-12 -6.367e-12 -  
3.637e+02  
96/ 1 3.330e+01 -7.460e+00 3.552e+01 2.587e+01 1.432e+01 -1.432e+01 -6.690e+01 6.690e+01 -8.035e+02 -7.939e+02 5.385e+02  
0.000e+00  
97/ 1 5.124e+01 -2.540e+01 3.069e+01 3.069e+01 1.488e+01 -1.488e+01 -1.127e+01 1.127e+01 -8.345e+02 -8.253e+02 0.000e+00 -  
5.246e-14  
98/ 1 5.390e+01 -2.806e+01 3.069e+01 3.069e+01 1.057e+01 -1.057e+01 1.598e+02 -1.598e+02 -5.916e+02 -5.873e+02 2.842e-14  
0.000e+00  
99/ 1 -1.623e-12 8.440e+00 1.497e-13 2.000e+01 4.306e-16 -4.306e-16 -5.063e-13 5.063e-13 3.452e-13 -5.959e-13 -3.522e-12 -  
3.637e+02  
100/ 1 5.616e+01 -3.032e+01 3.569e+01 2.570e+01 1.998e+01 -1.998e+01 -5.516e+01 5.516e+01 -1.121e+03 -1.109e+03 5.572e+02  
0.000e+00  
101/ 1 1.127e+02 -8.689e+01 3.069e+01 3.069e+01 2.035e+01 -2.035e+01 2.563e+00 -2.563e+00 -1.144e+03 -1.126e+03 0.000e+00 -  
4.647e-14  
102/ 1 1.492e+02 -1.233e+02 3.069e+01 3.069e+01 1.463e+01 -1.463e+01 2.466e+02 -2.466e+02 -8.324e+02 -8.000e+02 2.842e-14  
0.000e+00  
103/ 1 1.061e-12 4.446e+00 2.776e-13 1.054e+01 2.681e-14 -2.681e-14 -6.299e-13 6.299e-13 -1.228e-13 1.673e-12 9.379e-13 -  
1.916e+02  
104/ 1 6.859e+01 -5.498e+01 1.822e+01 1.412e+01 1.902e+01 -1.902e+01 -2.934e+01 2.934e+01 -1.069e+03 -1.053e+03 2.284e+02  
0.000e+00  
105/ 1 1.680e+02 -1.544e+02 1.617e+01 1.617e+01 1.986e+01 -1.986e+01 3.296e+01 -3.296e+01 -1.108e+03 -1.108e+03 0.000e+00 -  
4.049e-14  
106/ 1 3.410e+02 -3.274e+02 1.617e+01 1.617e+01 1.442e+01 -1.442e+01 2.969e+02 -2.969e+02 -8.163e+02 -7.925e+02 0.000e+00  
0.000e+00  
107/ 1 3.359e+02 -3.509e+02 1.724e+01 1.832e+01 -1.500e+01 1.500e+01 -2.776e+02 2.776e+02 8.238e+02 8.493e+02 -3.553e-15  
0.000e+00  
108/ 1 1.616e+02 -1.765e+02 1.724e+01 1.832e+01 -2.143e+01 2.143e+01 3.915e+00 -3.915e+00 1.193e+03 1.197e+03 -1.421e-14 -  
3.788e-15  
109/ 1 1.191e+01 -2.688e+01 1.724e+01 1.832e+01 -2.115e+01 2.115e+01 2.346e+02 -2.346e+02 1.177e+03 1.183e+03 1.556e-13 -  
8.099e-14  
110/ 1 1.226e+02 -1.511e+02 3.284e+01 3.499e+01 -1.537e+01 1.537e+01 -2.428e+02 2.428e+02 8.404e+02 8.740e+02 -3.553e-15  
0.000e+00  
111/ 1 8.508e+01 -1.136e+02 3.284e+01 3.499e+01 -2.189e+01 2.189e+01 2.378e+00 -2.378e+00 1.212e+03 1.230e+03 -2.842e-14  
2.026e-14  
112/ 1 2.690e+01 -5.545e+01 3.284e+01 3.499e+01 -2.195e+01 2.195e+01 2.232e+02 -2.232e+02 1.222e+03 1.228e+03 2.506e-13 -  
9.737e-14  
113/ 1 2.527e+01 -5.382e+01 3.284e+01 3.499e+01 -1.111e+01 1.111e+01 -1.602e+02 1.602e+02 6.175e+02 6.218e+02 -3.553e-15  
0.000e+00  
114/ 1 2.349e+01 -5.204e+01 3.284e+01 3.499e+01 -1.613e+01 1.613e+01 1.540e+00 -1.540e+00 8.949e+02 9.042e+02 -2.842e-14  
1.589e-14  
115/ 1 1.136e+01 -3.991e+01 3.284e+01 3.499e+01 -1.604e+01 1.604e+01 1.703e+02 -1.703e+02 8.894e+02 8.999e+02 3.318e-13 -  
1.353e-13  
116/ 1 8.303e+00 -3.686e+01 3.284e+01 3.499e+01 -4.045e+00 4.045e+00 -6.479e+01 6.479e+01 2.270e+02 2.243e+02 -3.553e-15  
0.000e+00  
117/ 1 2.054e+00 -3.061e+01 3.284e+01 3.499e+01 -8.166e+00 8.166e+00 9.853e-01 -9.853e-01 4.547e+02 4.563e+02 -2.842e-14  
1.153e-14  
118/ 1 -3.640e+00 -2.491e+01 3.284e+01 3.499e+01 -7.697e+00 7.697e+00 9.193e+01 -9.193e+01 4.268e+02 4.319e+02 3.857e-13 -  
1.595e-13  
119/ 1 6.398e+00 -3.495e+01 3.284e+01 3.499e+01 4.271e+00 -4.271e+00 2.874e+01 -2.874e+01 -2.394e+02 -2.371e+02 -3.553e-15  
0.000e+00  
120/ 1 -2.912e+00 -2.564e+01 3.284e+01 3.499e+01 5.533e-01 -5.533e-01 4.740e-01 -4.740e-01 -3.102e+01 -3.072e+01 -2.842e-14

7.156e-15  
121/ 1 -8.463e+00 -2.009e+01 3.284e+01 3.499e+01 1.207e+00 -1.207e+00 3.425e+00 -3.425e+00 -6.770e+01 -6.700e+01 4.051e-13 -

1.665e-13  
122/ 1 -1.000e+00 -2.755e+01 3.284e+01 3.499e+01 1.215e+01 -1.215e+01 1.085e+02 -1.085e+02 -6.817e+02 -6.739e+02 -3.553e-15

0.000e+00  
123/ 1 -8.615e+00 -1.994e+01 3.284e+01 3.499e+01 8.788e+00 -8.788e+00 -7.411e-02 7.411e-02 -4.903e+02 -4.901e+02 -2.842e-14

2.787e-15  
124/ 1 -1.163e+01 -1.693e+01 3.284e+01 3.499e+01 9.559e+00 -9.559e+00 -8.016e+01 8.016e+01 -5.321e+02 -5.343e+02 3.889e-13 -

1.557e-13  
125/ 1 -1.697e-01 -2.838e+01 3.284e+01 3.499e+01 1.777e+01 -1.777e+01 1.645e+02 -1.645e+02 -9.936e+02 -9.895e+02 -3.553e-15

0.000e+00  
126/ 1 -3.703e+00 -2.485e+01 3.284e+01 3.499e+01 1.520e+01 -1.520e+01 -6.230e-01 6.230e-01 -8.439e+02 -8.514e+02 -2.842e-14 -

1.582e-15  
127/ 1 -9.638e+00 -1.892e+01 3.284e+01 3.499e+01 1.639e+01 -1.639e+01 -1.436e+02 1.436e+02 -9.098e+02 -9.186e+02 3.423e-13 -

1.296e-13  
128/ 1 5.290e+01 -8.146e+01 3.284e+01 3.499e+01 1.914e+01 -1.914e+01 1.886e+02 -1.886e+02 -1.060e+03 -1.075e+03 -3.553e-15

0.000e+00  
129/ 1 5.594e+01 -8.450e+01 3.284e+01 3.499e+01 1.808e+01 -1.808e+01 -1.088e+00 1.088e+00 -9.944e+02 -1.022e+03 -2.842e-14 -

5.951e-15  
130/ 1 3.147e+01 -6.002e+01 3.284e+01 3.499e+01 2.043e+01 -2.043e+01 -1.713e+02 1.713e+02 -1.124e+03 -1.155e+03 2.764e-13 -

9.396e-14  
131/ 1 1.920e+02 -2.289e+02 4.282e+01 4.496e+01 1.431e+01 -1.431e+01 1.639e+02 -1.639e+02 -7.808e+02 -8.154e+02 -3.553e-15 -

1.137e-13  
132/ 1 1.978e+02 -2.347e+02 4.282e+01 4.496e+01 1.454e+01 -1.454e+01 -1.434e+00 1.434e+00 -7.907e+02 -8.316e+02 -2.842e-14 -

1.032e-14  
133/ 1 1.847e+02 -2.216e+02 4.282e+01 4.496e+01 1.829e+01 -1.829e+01 -1.465e+02 1.465e+02 -9.863e+02 -1.054e+03 2.090e-13 -

5.757e-14  
134/ 1 1.354e+02 -1.723e+02 4.282e+01 4.496e+01 -9.946e+00 9.946e+00 -4.922e+01 4.922e+01 5.392e+02 5.705e+02 -3.553e-15 -

1.137e-13  
135/ 1 1.789e+02 -2.159e+02 4.282e+01 4.496e+01 -1.309e+01 1.309e+01 2.419e+00 -2.419e+00 7.065e+02 7.543e+02 -2.842e-14 -

1.495e-14  
136/ 1 1.442e+02 -1.812e+02 4.282e+01 4.496e+01 -1.510e+01 1.510e+01 6.013e+01 -6.013e+01 8.115e+02 8.729e+02 1.719e-13 -

4.064e-14  
137/ 1 2.991e+01 -5.846e+01 3.284e+01 3.499e+01 -1.427e+01 1.427e+01 -6.957e+01 6.957e+01 7.913e+02 8.012e+02 -3.553e-15

0.000e+00  
138/ 1 3.529e+01 -6.385e+01 3.284e+01 3.499e+01 -1.597e+01 1.597e+01 5.553e+00 -5.553e+00 8.785e+02 9.032e+02 -2.842e-14 -

1.521e-14  
139/ 1 1.714e+01 -4.569e+01 3.284e+01 3.499e+01 -1.646e+01 1.646e+01 9.891e+01 -9.891e+01 9.064e+02 9.305e+02 2.070e-13 -

6.257e-14  
140/ 1 -4.858e+00 -2.370e+01 3.284e+01 3.499e+01 -1.262e+01 1.262e+01 -5.863e+01 5.863e+01 7.064e+02 7.019e+02 -3.553e-15

0.000e+00  
141/ 1 -9.796e+00 -1.876e+01 3.284e+01 3.499e+01 -1.310e+01 1.310e+01 7.570e+00 -7.570e+00 7.286e+02 7.325e+02 -2.842e-14 -

1.546e-14  
142/ 1 -1.194e+01 -1.661e+01 3.284e+01 3.499e+01 -1.267e+01 1.267e+01 8.895e+01 -8.895e+01 7.034e+02 7.097e+02 2.470e-13 -

8.695e-14  
143/ 1 -1.554e+00 -2.700e+01 3.284e+01 3.499e+01 -7.106e+00 7.106e+00 -2.937e+01 2.937e+01 3.994e+02 3.934e+02 -3.553e-15

0.000e+00  
144/ 1 -8.318e+00 -2.024e+01 3.284e+01 3.499e+01 -7.101e+00 7.101e+00 8.510e+00 -8.510e+00 3.968e+02 3.954e+02 -2.842e-14 -

1.572e-14  
145/ 1 -1.048e+01 -1.807e+01 3.284e+01 3.499e+01 -6.492e+00 6.492e+00 4.733e+01 -4.733e+01 3.615e+02 3.628e+02 2.758e-13 -

1.057e-13  
146/ 1 3.559e+00 -3.211e+01 3.284e+01 3.499e+01 2.031e-01 -2.031e-01 9.899e+00 -9.899e+00 -1.142e+01 -1.124e+01 -3.553e-15

0.000e+00  
147/ 1 -3.895e+00 -2.466e+01 3.284e+01 3.499e+01 3.069e-01 -3.069e-01 8.563e+00 -8.563e+00 -1.723e+01 -1.701e+01 -2.842e-14 -

1.598e-14  
148/ 1 -7.969e+00 -2.059e+01 3.284e+01 3.499e+01 8.082e-01 -8.082e-01 -9.655e+00 9.655e+00 -4.505e+01 -4.512e+01 2.837e-13 -

1.140e-13  
149/ 1 -1.571e+00 -2.698e+01 3.284e+01 3.499e+01 7.480e+00 -7.480e+00 4.864e+01 -4.864e+01 -4.204e+02 -4.142e+02 -3.553e-15

0.000e+00  
150/ 1 -8.420e+00 -2.013e+01 3.284e+01 3.499e+01 7.689e+00 -7.689e+00 7.964e+00 -7.964e+00 -4.298e+02 -4.281e+02 -2.842e-14 -

1.624e-14  
151/ 1 -1.064e+01 -1.792e+01 3.284e+01 3.499e+01 8.089e+00 -8.089e+00 -6.613e+01 6.613e+01 -4.505e+02 -4.520e+02 2.680e-13 -

1.105e-13  
152/ 1 -3.977e+00 -2.458e+01 3.284e+01 3.499e+01 1.289e+01 -1.289e+01 7.634e+01 -7.634e+01 -7.214e+02 -7.169e+02 -3.553e-15

0.000e+00  
153/ 1 -8.960e+00 -1.959e+01 3.284e+01 3.499e+01 1.360e+01 -1.360e+01 6.931e+00 -6.931e+00 -7.565e+02 -7.606e+02 -2.842e-14 -

1.650e-14  
154/ 1 -1.158e+01 -1.698e+01 3.284e+01 3.499e+01 1.420e+01 -1.420e+01 -1.062e+02 1.062e+02 -7.887e+02 -7.956e+02 2.319e-13 -

9.688e-14  
155/ 1 3.190e+01 -6.045e+01 3.284e+01 3.499e+01 1.435e+01 -1.435e+01 8.457e+01 -8.457e+01 -7.959e+02 -8.056e+02 -3.553e-15

0.000e+00  
156/ 1 3.924e+01 -6.780e+01 3.284e+01 3.499e+01 1.628e+01 -1.628e+01 5.603e+00 -5.603e+00 -8.958e+02 -9.211e+02 -2.842e-14 -

1.675e-14  
157/ 1 2.108e+01 -4.963e+01 3.284e+01 3.499e+01 1.786e+01 -1.786e+01 -1.135e+02 1.135e+02 -9.835e+02 -1.010e+03 1.854e-13 -

7.799e-14  
158/ 1 1.341e+02 -1.710e+02 4.282e+01 4.496e+01 9.808e+00 -9.808e+00 6.004e+01 -6.004e+01 -5.325e+02 -5.619e+02 -3.553e-15 -

1.137e-13  
159/ 1 1.860e+02 -2.230e+02 4.282e+01 4.496e+01 1.311e+01 -1.311e+01 3.930e+00 -3.930e+00 -7.078e+02 -7.549e+02 -2.842e-14 -

1.701e-14  
160/ 1 1.560e+02 -1.930e+02 4.282e+01 4.496e+01 1.615e+01 -1.615e+01 -7.078e+01 7.078e+01 -8.695e+02 -9.319e+02 1.451e-13 -

6.222e-14  
161/ 1 1.867e+02 -2.236e+02 4.282e+01 4.496e+01 -1.450e+01 1.450e+01 -1.623e+02 1.623e+02 7.917e+02 8.265e+02 -3.553e-15 -

1.137e-13  
162/ 1 1.841e+02 -2.210e+02 4.282e+01 4.496e+01 -1.451e+01 1.451e+01 -4.764e+00 4.764e+00 7.891e+02 8.293e+02 -2.842e-14 -

1.237e-14  
163/ 1 1.677e+02 -2.046e+02 4.282e+01 4.496e+01 -1.711e+01 1.711e+01 1.417e+02 -1.417e+02 9.220e+02 9.868e+02 1.769e-13 -

8.025e-14  
164/ 1 4.905e+01 -7.760e+01 3.284e+01 3.499e+01 -1.913e+01 1.913e+01 -1.915e+02 1.915e+02 1.060e+03 1.074e+03 -3.553e-15

0.000e+00  
165/ 1 5.028e+01 -7.883e+01 3.284e+01 3.499e+01 -1.779e+01 1.779e+01 -9.478e+00 9.478e+00 9.791e+02 1.005e+03 -2.842e-14 -

7.476e-15  
166/ 1 2.667e+01 -5.522e+01 3.284e+01 3.499e+01 -1.896e+01 1.896e+01 1.677e+02 -1.677e+02 1.044e+03 1.072e+03 2.426e-13 -

1.108e-13  
167/ 1 -1.021e+00 -2.753e+01 3.284e+01 3.499e+01 -1.760e+01 1.760e+01 -1.715e+02 1.715e+02 9.842e+02 9.796e+02 -3.553e-15

0.000e+00  
168/ 1 -4.424e+00 -2.413e+01 3.284e+01 3.499e+01 -1.478e+01 1.478e+01 -1.260e+01 1.260e+01 8.210e+02 8.283e+02 -2.842e-14 -

2.580e-15  
169/ 1 -9.795e+00 -1.876e+01 3.284e+01 3.499e+01 -1.486e+01 1.486e+01 1.418e+02 -1.418e+02 8.248e+02 8.329e+02 3.073e-13 -

1.410e-13  
170/ 1 -1.293e+00 -2.726e+01 3.284e+01 3.499e+01 -1.191e+01 1.191e+01 -1.186e+02 1.186e+02 6.683e+02 6.608e+02 -3.553e-15

0.000e+00  
171/ 1 -8.681e+00 -1.987e+01 3.284e+01 3.499e+01 -8.352e+00 8.352e+00 -1.412e+01 1.412e+01 4.657e+02 4.661e+02 -2.842e-14

2.317e-15  
172/ 1 -1.148e+01 -1.707e+01 3.284e+01 3.499e+01 -8.020e+00 8.020e+00 8.081e+01 -8.081e+01 4.463e+02 4.485e+02 3.537e-13 -

1.619e-13



173/ 1	4.691e+00	-3.324e+01	3.284e+01	3.499e+01	-4.067e+00	4.067e+00	-4.077e+01	4.077e+01	2.278e+02	2.259e+02	-3.553e-15
0.000e+00											
174/ 1	-4.187e+00	-2.437e+01	3.284e+01	3.499e+01	-1.631e-01	1.631e-01	-1.398e+01	1.398e+01	8.876e+00	9.317e+00	-2.842e-14
7.213e-15											
175/ 1	-9.104e+00	-1.945e+01	3.284e+01	3.499e+01	3.047e-01	-3.047e-01	5.043e-01	-5.043e-01	-1.670e+01	-1.730e+01	3.707e-13
1.682e-13											
176/ 1	6.147e+00	-3.470e+01	3.284e+01	3.499e+01	4.127e+00	-4.127e+00	5.241e+01	-5.241e+01	-2.315e+02	-2.290e+02	-3.553e-15
0.000e+00											
177/ 1	3.161e-01	-2.887e+01	3.284e+01	3.499e+01	8.469e+00	-8.469e+00	-1.215e+01	1.215e+01	-4.717e+02	-4.731e+02	-2.842e-14
1.211e-14											
178/ 1	-4.933e+00	-2.362e+01	3.284e+01	3.499e+01	9.172e+00	-9.172e+00	-8.385e+01	8.385e+01	-5.090e+02	-5.143e+02	3.537e-13
1.575e-13											
179/ 1	2.759e+01	-5.614e+01	3.284e+01	3.499e+01	1.099e+01	-1.099e+01	1.504e+02	-1.504e+02	-6.103e+02	-6.164e+02	-3.553e-15
0.000e+00											
180/ 1	2.613e+01	-5.469e+01	3.284e+01	3.499e+01	1.632e+01	-1.632e+01	-8.689e+00	8.689e+00	-9.050e+02	-9.162e+02	-2.842e-14
1.701e-14											
181/ 1	1.180e+01	-4.036e+01	3.284e+01	3.499e+01	1.753e+01	-1.753e+01	-1.571e+02	1.571e+02	-9.717e+02	-9.837e+02	3.041e-13
1.304e-13											
182/ 1	1.351e+02	-1.637e+02	3.284e+01	3.499e+01	1.502e+01	-1.502e+01	2.390e+02	-2.390e+02	-8.197e+02	-8.560e+02	-3.553e-15
0.000e+00											
183/ 1	1.007e+02	-1.293e+02	3.284e+01	3.499e+01	2.191e+01	-2.191e+01	-3.835e+00	3.835e+00	-1.212e+03	-1.233e+03	-2.842e-14
2.190e-14											
184/ 1	4.042e+01	-6.897e+01	3.284e+01	3.499e+01	2.348e+01	-2.348e+01	-2.039e+02	2.039e+02	-1.304e+03	-1.316e+03	2.294e-13
9.087e-14											
185/ 1	3.568e+02	-3.717e+02	1.724e+01	1.832e+01	1.456e+01	-1.456e+01	2.812e+02	-2.812e+02	-7.991e+02	-8.248e+02	-3.553e-15
0.000e+00											
186/ 1	1.877e+02	-2.026e+02	1.724e+01	1.832e+01	2.115e+01	-2.115e+01	1.986e+00	-1.986e+00	-1.179e+03	-1.181e+03	-1.421e-14
1.622e-15											
187/ 1	6.092e+01	-7.589e+01	1.724e+01	1.832e+01	2.231e+01	-2.231e+01	-2.081e+02	2.081e+02	-1.238e+03	-1.251e+03	1.436e-13
7.414e-14											
188/ 1	4.512e+01	-3.015e+01	1.832e+01	1.724e+01	2.164e+01	-2.164e+01	-2.223e+02	2.223e+02	-1.211e+03	-1.204e+03	-1.469e-13
1.059e-14											
189/ 1	1.864e+02	-1.714e+02	1.832e+01	1.724e+01	2.142e+01	-2.142e+01	2.774e+00	-2.774e+00	-1.196e+03	-1.194e+03	3.701e-15
0.000e+00											
190/ 1	3.642e+02	-3.492e+02	1.832e+01	1.724e+01	1.485e+01	-1.485e+01	2.815e+02	-2.815e+02	-8.414e+02	-8.159e+02	1.412e-13
6.061e-15											
191/ 1	6.148e+01	-3.292e+01	3.499e+01	3.284e+01	2.258e+01	-2.258e+01	-2.167e+02	2.167e+02	-1.264e+03	-1.255e+03	-2.666e-13
2.314e-14											
192/ 1	1.212e+02	-9.264e+01	3.499e+01	3.284e+01	2.197e+01	-2.197e+01	1.392e+00	-1.392e+00	-1.235e+03	-1.216e+03	2.864e-15
0.000e+00											
193/ 1	1.579e+02	-1.293e+02	3.499e+01	3.284e+01	1.519e+01	-1.519e+01	2.439e+02	-2.439e+02	-8.649e+02	-8.295e+02	2.509e-13
6.394e-14											
194/ 1	4.041e+01	-1.186e+01	3.499e+01	3.284e+01	1.661e+01	-1.661e+01	-1.686e+02	1.686e+02	-9.320e+02	-9.208e+02	-3.462e-13
5.825e-14											
195/ 1	5.343e+01	-2.488e+01	3.499e+01	3.284e+01	1.626e+01	-1.626e+01	-2.827e-01	2.827e-01	-9.123e+02	-9.020e+02	2.642e-15
0.000e+00											
196/ 1	5.452e+01	-2.597e+01	3.499e+01	3.284e+01	1.103e+01	-1.103e+01	1.595e+02	-1.595e+02	-6.180e+02	-6.127e+02	3.331e-13
6.497e-14											
197/ 1	2.426e+01	4.296e+00	3.499e+01	3.284e+01	8.237e+00	-8.237e+00	-9.413e+01	9.413e+01	-4.621e+02	-4.568e+02	-4.002e-13
8.057e-14											
198/ 1	2.951e+01	-9.531e-01	3.499e+01	3.284e+01	8.367e+00	-8.367e+00	-1.812e+00	1.812e+00	-4.675e+02	-4.659e+02	3.066e-15
0.000e+00											
199/ 1	3.516e+01	-6.606e+00	3.499e+01	3.284e+01	4.093e+00	-4.093e+00	6.376e+01	-6.376e+01	-2.270e+02	-2.296e+02	3.782e-13
6.600e-14											
200/ 1	1.954e+01	9.008e+00	3.499e+01	3.284e+01	-6.666e-01	6.666e-01	-8.692e+00	8.692e+00	3.683e+01	3.754e+01	-4.212e-13
8.636e-14											
201/ 1	2.459e+01	3.962e+00	3.499e+01	3.284e+01	-2.865e-01	2.865e-01	-2.956e+00	2.956e+00	1.596e+01	1.600e+01	4.027e-15
0.000e+00											
202/ 1	3.354e+01	-4.992e+00	3.499e+01	3.284e+01	-4.123e+00	4.123e+00	-2.917e+01	2.917e+01	2.289e+02	2.311e+02	3.847e-13
6.703e-14											
203/ 1	1.671e+01	1.185e+01	3.499e+01	3.284e+01	-9.034e+00	9.034e+00	7.261e+01	-7.261e+01	5.050e+02	5.028e+02	-4.076e-13
7.491e-14											
204/ 1	1.962e+01	8.935e+00	3.499e+01	3.284e+01	-8.483e+00	8.483e+00	-3.646e+00	3.646e+00	4.733e+02	4.732e+02	5.357e-15
0.000e+00											
205/ 1	2.718e+01	1.375e+00	3.499e+01	3.284e+01	-1.195e+01	1.195e+01	-1.085e+02	1.085e+02	6.627e+02	6.704e+02	3.562e-13
6.806e-14											
206/ 1	1.913e+01	9.421e+00	3.499e+01	3.284e+01	-1.593e+01	1.593e+01	1.345e+02	-1.345e+02	8.930e+02	8.841e+02	-3.644e-13
4.861e-14											
207/ 1	2.556e+01	2.990e+00	3.499e+01	3.284e+01	-1.490e+01	1.490e+01	-3.925e+00	3.925e+00	8.351e+02	8.272e+02	6.882e-15
0.000e+00											
208/ 1	2.900e+01	-4.507e-01	3.499e+01	3.284e+01	-1.756e+01	1.756e+01	-1.648e+02	1.648e+02	9.778e+02	9.817e+02	2.999e-13
6.909e-14											
209/ 1	6.171e+01	-3.316e+01	3.499e+01	3.284e+01	-2.008e+01	2.008e+01	1.613e+02	-1.613e+02	1.136e+03	1.105e+03	-3.024e-13
1.292e-14											
210/ 1	8.672e+01	-5.816e+01	3.499e+01	3.284e+01	-1.783e+01	1.783e+01	-3.877e+00	3.877e+00	1.009e+03	9.806e+02	8.454e-15
0.000e+00											
211/ 1	8.370e+01	-5.515e+01	3.499e+01	3.284e+01	-1.896e+01	1.896e+01	-1.897e+02	1.897e+02	1.066e+03	1.050e+03	2.270e-13
7.012e-14											
212/ 1	2.271e+02	-1.902e+02	4.496e+01	4.282e+01	-1.805e+01	1.805e+01	1.363e+02	-1.363e+02	1.041e+03	9.728e+02	-2.391e-13
2.340e-14											
213/ 1	2.364e+02	-1.995e+02	4.496e+01	4.282e+01	-1.438e+01	1.438e+01	-3.525e+00	3.525e+00	8.224e+02	7.825e+02	9.945e-15
0.000e+00											
214/ 1	2.337e+02	-1.967e+02	4.496e+01	4.282e+01	-1.424e+01	1.424e+01	-1.660e+02	1.660e+02	8.119e+02	7.770e+02	1.524e-13
7.115e-14											
215/ 1	1.749e+02	-1.380e+02	4.496e+01	4.282e+01	1.495e+01	-1.495e+01	-6.477e+01	6.477e+01	-8.643e+02	-8.042e+02	-2.088e-13
4.299e-14											
216/ 1	2.136e+02	-1.766e+02	4.496e+01	4.282e+01	1.295e+01	-1.295e+01	-4.102e+00	4.102e+00	-7.469e+02	-6.983e+02	1.264e-14
0.000e+00											
217/ 1	1.673e+02	-1.303e+02	4.496e+01	4.282e+01	9.743e+00	-9.743e+00	4.746e+01	-4.746e+01	-5.589e+02	-5.281e+02	1.092e-13
7.310e-14											
218/ 1	4.393e+01	-1.538e+01	3.499e+01	3.284e+01	1.620e+01	-1.620e+01	-9.964e+01	9.964e+01	-9.153e+02	-8.921e+02	-2.450e-13
2.467e-14											
219/ 1	6.166e+01	-3.311e+01	3.499e+01	3.284e+01	1.575e+01	-1.575e+01	-4.907e+00	4.907e+00	-8.905e+02	-8.662e+02	1.447e-14
0.000e+00											
220/ 1	5.631e+01	-2.776e+01	3.499e+01	3.284e+01	1.402e+01	-1.402e+01	6.938e+01	-6.938e+01	-7.870e+02	-7.776e+02	1.346e-13
7.401e-14											
221/ 1	1.646e+01	1.210e+01	3.499e+01	3.284e+01	1.237e+01	-1.237e+01	-8.674e+01	8.674e+01	-6.930e+02	-6.870e+02	-2.846e-13
4.580e-15											
222/ 1	1.821e+01	1.034e+01	3.499e+01	3.284e+01	1.284e+01	-1.284e+01	-5.108e+00	5.108e+00	-7.181e+02	-7.145e+02	1.651e-14
0.000e+00											
223/ 1	2.325e+01	5.300e+00	3.499e+01	3.284e+01	1.233e+01	-1.233e+01	5.999e+01	-5.999e+01	-6.856e+02	-6.904e+02	1.615e-13
7.493e-14											
224/ 1	1.817e+01	1.038e+01	3.499e+01	3.284e+01	6.184e+00	-6.184e+00	-4.313e+01	4.313e+01	-3.456e+02	-3.444e+02	-3.120e-13
9.369e-15											
225/ 1	2.032e+01	8.230e+00	3.499e+01	3.284e+01	6.839e+00	-6.839e+00	-4.759e+00	4.759e+00	-3.808e+02	-3.823e+02	1.851e-14

0.000e+00	226/ 1	2.704e+01	1.515e+00	3.499e+01	3.284e+01	6.802e+00	-6.802e+00	3.189e+01	-3.189e+01	-3.765e+02	-3.824e+02	1.805e-13	-
7.584e-14	227/ 1	2.064e+01	7.915e+00	3.499e+01	3.284e+01	-1.122e+00	1.122e+00	1.495e+01	-1.495e+01	6.264e+01	6.251e+01	-3.181e-13	-
1.263e-14	228/ 1	2.473e+01	3.821e+00	3.499e+01	3.284e+01	-5.598e-01	5.598e-01	-4.054e+00	4.054e+00	3.110e+01	3.136e+01	2.030e-14	-
0.000e+00	229/ 1	3.214e+01	-3.587e+00	3.499e+01	3.284e+01	-4.987e-01	4.987e-01	-6.650e+00	6.650e+00	2.767e+01	2.797e+01	1.858e-13	-
7.676e-14	230/ 1	1.787e+01	1.068e+01	3.499e+01	3.284e+01	-8.397e+00	8.397e+00	7.164e+01	-7.164e+01	4.692e+02	4.677e+02	-3.001e-13	-
3.897e-15	231/ 1	2.011e+01	8.444e+00	3.499e+01	3.284e+01	-7.919e+00	7.919e+00	-3.234e+00	3.234e+00	4.409e+02	4.426e+02	2.178e-14	-
0.000e+00	232/ 1	2.696e+01	1.595e+00	3.499e+01	3.284e+01	-7.747e+00	7.747e+00	-4.508e+01	4.508e+01	4.290e+02	4.353e+02	1.752e-13	-
7.767e-14	233/ 1	1.698e+01	1.157e+01	3.499e+01	3.284e+01	-1.449e+01	1.449e+01	1.110e+02	-1.110e+02	8.119e+02	8.048e+02	-2.619e-13	-
1.496e-14	234/ 1	1.975e+01	8.806e+00	3.499e+01	3.284e+01	-1.379e+01	1.379e+01	-2.520e+00	2.520e+00	7.711e+02	7.669e+02	2.296e-14	-
0.000e+00	235/ 1	2.468e+01	3.873e+00	3.499e+01	3.284e+01	-1.311e+01	1.311e+01	-7.287e+01	7.287e+01	7.289e+02	7.335e+02	1.509e-13	-
7.859e-14	236/ 1	5.074e+01	-2.218e+01	3.499e+01	3.284e+01	-1.811e+01	1.811e+01	1.168e+02	-1.168e+02	1.024e+03	9.971e+02	-2.137e-13	-
3.881e-14	237/ 1	6.870e+01	-4.015e+01	3.499e+01	3.284e+01	-1.640e+01	1.640e+01	-2.046e+00	2.046e+00	9.275e+02	9.019e+02	2.389e-14	-
0.000e+00	238/ 1	6.071e+01	-3.216e+01	3.499e+01	3.284e+01	-1.449e+01	1.449e+01	-8.160e+01	8.160e+01	8.132e+02	8.037e+02	1.189e-13	-
7.951e-14	239/ 1	1.975e+02	-1.606e+02	4.496e+01	4.282e+01	-1.630e+01	1.630e+01	7.160e+01	-7.160e+01	9.408e+02	8.777e+02	-1.725e-13	-
5.914e-14	240/ 1	2.244e+02	-1.875e+02	4.496e+01	4.282e+01	-1.312e+01	1.312e+01	-1.759e+00	1.759e+00	7.551e+02	7.082e+02	2.468e-14	-
0.000e+00	241/ 1	1.707e+02	-1.338e+02	4.496e+01	4.282e+01	-9.852e+00	9.852e+00	-5.799e+01	5.799e+01	5.641e+02	5.350e+02	8.890e-14	-
8.042e-14	242/ 1	1.999e+02	-1.630e+02	4.496e+01	4.282e+01	1.703e+01	-1.703e+01	-1.434e+02	1.434e+02	-9.818e+02	-9.179e+02	-2.055e-13	-
3.752e-14	243/ 1	2.192e+02	-1.823e+02	4.496e+01	4.282e+01	1.459e+01	-1.459e+01	4.993e+00	-4.993e+00	-8.343e+02	-7.940e+02	2.452e-14	-
0.000e+00	244/ 1	2.235e+02	-1.865e+02	4.496e+01	4.282e+01	1.456e+01	-1.456e+01	1.628e+02	-1.628e+02	-8.300e+02	-7.950e+02	1.262e-13	-
8.053e-14	245/ 1	5.412e+01	-2.556e+01	3.499e+01	3.284e+01	1.883e+01	-1.883e+01	-1.686e+02	1.686e+02	-1.064e+03	-1.037e+03	-2.716e-13	-
4.563e-16	246/ 1	7.785e+01	-4.929e+01	3.499e+01	3.284e+01	1.783e+01	-1.783e+01	9.689e+00	-9.689e+00	-1.008e+03	-9.817e+02	2.148e-14	-
0.000e+00	247/ 1	7.721e+01	-4.865e+01	3.499e+01	3.284e+01	1.916e+01	-1.916e+01	1.920e+02	-1.920e+02	-1.076e+03	-1.062e+03	2.007e-13	-
7.973e-14	248/ 1	1.880e+01	9.753e+00	3.499e+01	3.284e+01	1.471e+01	-1.471e+01	-1.421e+02	1.421e+02	-8.249e+02	-8.168e+02	-3.366e-13	-
3.785e-14	249/ 1	2.401e+01	4.544e+00	3.499e+01	3.284e+01	1.480e+01	-1.480e+01	1.279e+01	-1.279e+01	-8.289e+02	-8.218e+02	1.688e-14	-
0.000e+00	250/ 1	2.742e+01	1.137e+00	3.499e+01	3.284e+01	1.761e+01	-1.761e+01	1.719e+02	-1.719e+02	-9.798e+02	-9.845e+02	2.756e-13	-
7.892e-14	251/ 1	1.716e+01	1.139e+01	3.499e+01	3.284e+01	7.868e+00	-7.868e+00	-8.070e+01	8.070e+01	-4.400e+02	-4.378e+02	-3.830e-13	-
6.595e-14	252/ 1	1.996e+01	8.593e+00	3.499e+01	3.284e+01	8.349e+00	-8.349e+00	1.430e+01	-1.430e+01	-4.659e+02	-4.655e+02	1.134e-14	-
0.000e+00	253/ 1	2.731e+01	1.246e+00	3.499e+01	3.284e+01	1.190e+01	-1.190e+01	1.189e+02	-1.189e+02	-6.600e+02	-6.676e+02	3.355e-13	-
7.812e-14	254/ 1	1.946e+01	9.096e+00	3.499e+01	3.284e+01	-4.644e-01	4.644e-01	-1.032e-01	1.032e-01	2.619e+01	2.562e+01	-4.000e-13	-
7.931e-14	255/ 1	2.439e+01	4.166e+00	3.499e+01	3.284e+01	1.520e-01	-1.520e-01	1.413e+01	-1.413e+01	-8.732e+00	-8.223e+00	5.544e-15	-
0.000e+00	256/ 1	3.327e+01	-4.714e+00	3.499e+01	3.284e+01	4.047e+00	-4.047e+00	4.098e+01	-4.098e+01	-2.249e+02	-2.267e+02	3.687e-13	-
7.731e-14	257/ 1	2.357e+01	4.979e+00	3.499e+01	3.284e+01	-9.336e+00	9.336e+00	8.441e+01	-8.441e+01	5.235e+02	5.182e+02	-3.828e-13	-
7.560e-14	258/ 1	2.884e+01	-2.849e-01	3.499e+01	3.284e+01	-8.483e+00	8.483e+00	1.226e+01	-1.226e+01	4.739e+02	4.725e+02	1.516e-16	-
0.000e+00	259/ 1	3.469e+01	-6.141e+00	3.499e+01	3.284e+01	-4.145e+00	4.145e+00	-5.234e+01	5.234e+01	2.300e+02	2.325e+02	3.669e-13	-
7.651e-14	260/ 1	4.041e+01	-1.186e+01	3.499e+01	3.284e+01	-1.770e+01	1.770e+01	1.577e+02	-1.577e+02	9.932e+02	9.811e+02	-3.329e-13	-
5.556e-14	261/ 1	5.487e+01	-2.631e+01	3.499e+01	3.284e+01	-1.633e+01	1.633e+01	8.750e+00	-8.750e+00	9.168e+02	9.056e+02	-4.157e-15	-
0.000e+00	262/ 1	5.630e+01	-2.775e+01	3.499e+01	3.284e+01	-1.100e+01	1.100e+01	-1.505e+02	1.505e+02	6.168e+02	6.106e+02	3.261e-13	-
7.570e-14	263/ 1	6.978e+01	-4.122e+01	3.499e+01	3.284e+01	-2.365e+01	2.365e+01	2.044e+02	-2.044e+02	1.326e+03	1.313e+03	-2.580e-13	-
2.301e-14	264/ 1	1.302e+02	-1.017e+02	3.499e+01	3.284e+01	-2.191e+01	2.191e+01	3.832e+00	-3.832e+00	1.233e+03	1.212e+03	-6.769e-15	-
0.000e+00	265/ 1	1.643e+02	-1.358e+02	3.499e+01	3.284e+01	-1.501e+01	1.501e+01	-2.393e+02	2.393e+02	8.554e+02	8.190e+02	2.468e-13	-
7.490e-14	266/ 1	7.844e+01	-6.347e+01	1.832e+01	1.724e+01	-2.244e+01	2.244e+01	2.083e+02	-2.083e+02	1.259e+03	1.245e+03	-1.436e-13	-
1.332e-14	267/ 1	2.043e+02	-1.894e+02	1.832e+01	1.724e+01	-2.113e+01	2.113e+01	-2.064e+00	2.064e+00	1.180e+03	1.177e+03	-7.205e-15	-
0.000e+00	268/ 1	3.728e+02	-3.578e+02	1.832e+01	1.724e+01	-1.453e+01	1.453e+01	-2.816e+02	2.816e+02	8.234e+02	7.977e+02	1.380e-13	-
1.725e-14	269/ 1	3.379e+02	-3.515e+02	1.617e+01	1.617e+01	-1.512e+01	1.512e+01	-3.128e+02	3.128e+02	8.315e+02	8.553e+02	-1.869e-13	-
1.421e-14	270/ 1	1.580e+02	-1.716e+02	1.617e+01	1.617e+01	-2.070e+01	2.070e+01	-6.837e+01	6.837e+01	1.155e+03	1.154e+03	0.000e+00	-
1.494e-14	271/ 1	5.544e+01	-6.905e+01	1.433e+01	1.801e+01	-1.981e+01	1.981e+01	7.126e+00	-7.126e+00	1.098e+03	1.113e+03	2.558e-14	-
2.053e+02	272/ 1	-4.447e+00	-1.303e-12	1.054e+01	3.151e-13	3.115e-14	-3.115e-14	9.425e-15	-9.425e-15	-1.130e-12	-2.068e-13	1.916e+02	-
8.225e-13	273/ 1	1.281e+02	-1.539e+02	3.069e+01	3.069e+01	-1.534e+01	1.534e+01	-2.571e+02	2.571e+02	8.387e+02	8.726e+02	-3.171e-13	-
2.842e-14	274/ 1	8.974e+01	-1.156e+02	3.069e+01	3.069e+01	-2.126e+01	2.126e+01	-3.830e+01	3.830e+01	1.177e+03	1.196e+03	0.000e+00	-
2.539e-14	275/ 1	3.130e+01	-5.714e+01	2.616e+01	3.523e+01	-2.092e+01	2.092e+01	3.308e+01	-3.308e+01	1.161e+03	1.173e+03	2.326e-14	-
5.060e+02	276/ 1	-8.440e+00	1.307e-12	2.000e+01	2.494e-13	-4.811e-14	4.811e-14	5.022e-14	-5.022e-14	4.099e-12	-5.732e-13	3.637e+02	-
3.058e-12	277/ 1	2.701e+01	-5.285e+01	3.069e+01	3.069e+01	-1.103e+01	1.103e+01	-1.648e+02	1.648e+02	6.125e+02	6.180e+02	-4.005e-13	-
2.842e-14													-





5.256e+02													
2/ 1	-1.354e+01	1.354e+01	9.882e+00	9.092e+00	-3.155e-02	3.155e-02	3.043e+01	-3.043e+01	-2.757e+01	3.836e+01	5.858e+02	-	
4.507e+02													
3/ 1	-4.515e+02	4.515e+02	9.694e+00	9.281e+00	4.998e-02	-4.998e-02	-1.516e+00	1.516e+00	-8.737e+00	-8.357e+00	5.712e+02	-	
5.005e+02													
4/ 1	-4.513e+02	4.513e+02	9.859e+00	9.116e+00	-8.503e-02	8.503e-02	2.130e+00	-2.130e+00	1.558e+01	1.350e+01	6.094e+02	-	
4.823e+02													
5/ 1	-1.701e+02	1.701e+02	9.637e+00	9.337e+00	6.423e-01	-6.423e-01	-6.077e+00	6.077e+00	-1.157e+02	-1.040e+02	5.692e+02	-	
5.179e+02													
6/ 1	-5.061e+02	5.061e+02	1.000e+01	8.973e+00	1.009e-01	-1.009e-01	-1.397e+01	1.397e+01	-8.902e+00	-2.561e+01	5.950e+02	-	
4.192e+02													
7/ 1	-4.929e+02	4.929e+02	9.973e+00	9.001e+00	-8.985e-02	8.985e-02	1.354e+01	-1.354e+01	6.636e+00	2.409e+01	5.902e+02	-	
4.240e+02													
8/ 1	-1.846e+02	1.846e+02	9.672e+00	9.302e+00	-6.734e-03	6.734e-03	-3.284e+01	3.284e+01	3.091e+01	-2.861e+01	5.597e+02	-	
4.963e+02													
9/ 1	-1.350e+01	1.350e+01	9.093e+00	9.882e+00	3.043e-02	-3.043e-02	-3.020e+01	3.020e+01	-3.805e+01	2.765e+01	4.508e+02	-	
5.858e+02													
10/ 1	1.344e+01	-1.344e+01	9.408e+00	9.566e+00	5.507e-01	-5.507e-01	-4.368e+00	4.368e+00	-9.409e+01	-9.425e+01	5.257e+02	-	
5.528e+02													
11/ 1	-5.067e+02	5.067e+02	8.972e+00	1.000e+01	-9.501e-02	9.501e-02	1.333e+01	-1.333e+01	2.422e+01	8.276e+00	4.191e+02	-	
5.951e+02													
12/ 1	-4.523e+02	4.523e+02	9.283e+00	9.691e+00	-4.465e-02	4.465e-02	1.411e+00	-1.411e+00	7.802e+00	7.467e+00	5.009e+02	-	
5.706e+02													
13/ 1	-4.781e+02	4.781e+02	9.016e+00	9.958e+00	6.461e-02	-6.461e-02	-1.024e+01	1.024e+01	-1.781e+01	-4.285e+00	4.269e+02	-	
5.879e+02													
14/ 1	-4.429e+02	4.429e+02	9.467e+00	9.507e+00	3.761e-02	-3.761e-02	-1.755e+00	1.755e+00	-7.583e+00	-5.279e+00	5.240e+02	-	
5.309e+02													
15/ 1	-1.725e+02	1.725e+02	9.317e+00	9.657e+00	4.780e-02	-4.780e-02	2.714e+01	-2.714e+01	1.791e+01	-3.426e+01	4.993e+02	-	
5.573e+02													
16/ 1	-1.638e+02	1.638e+02	9.474e+00	9.500e+00	-4.245e-01	4.245e-01	4.940e+00	-4.940e+00	6.680e+01	7.838e+01	5.329e+02	-	
5.375e+02													

## GRUPPO NUMERO: 5 - DESCRIZIONE: MONACO

Elem./C.c.	Fx/I	Fx/J	Fy/I	Fy/J	Fz/I	Fz/J	Mx/I	Mx/J	My/I	My/J	Mz/I
Mz/J											
1/ 1	-1.929e+01	4.809e+01	-2.703e+01	2.703e+01	-5.172e-01	5.172e-01	-6.648e+01	6.648e+01	2.605e+01	4.842e+01	-6.021e+01
3.832e+03											
2/ 1	-1.928e+01	4.808e+01	-5.461e+01	5.461e+01	-5.093e-02	5.093e-02	1.726e+01	-1.726e+01	-1.246e+01	1.979e+01	-9.449e+01
7.770e+03											
3/ 1	-1.909e+01	4.789e+01	-4.162e+01	4.162e+01	4.839e-03	-4.839e-03	-2.014e+01	2.014e+01	1.141e+01	-1.211e+01	-1.079e+02
5.886e+03											
4/ 1	-1.901e+01	4.781e+01	-1.454e+01	1.454e+01	6.490e-01	-6.490e-01	7.309e+01	-7.309e+01	-2.676e+01	-6.670e+01	-4.176e+01
2.052e+03											
5/ 1	-1.929e+01	4.809e+01	2.694e+01	-2.694e+01	-5.203e-01	5.203e-01	6.644e+01	-6.644e+01	2.584e+01	4.908e+01	6.010e+01
3.820e+03											
6/ 1	-1.929e+01	4.809e+01	5.446e+01	-5.446e+01	-5.039e-02	5.039e-02	-1.608e+01	1.608e+01	-1.192e+01	1.918e+01	9.420e+01
7.749e+03											
7/ 1	-1.916e+01	4.796e+01	8.717e+00	-8.717e+00	4.723e-01	-4.723e-01	-4.412e+01	4.412e+01	-2.220e+01	-4.581e+01	1.979e+01
1.235e+03											
8/ 1	-1.942e+01	4.822e+01	3.523e+01	-3.523e+01	2.696e-02	-2.696e-02	1.187e+01	-1.187e+01	8.490e+00	-1.237e+01	6.387e+01
5.009e+03											

## FORZE MOMENTI PER GRUPPI VINCOLO

### GRUPPO NUMERO: 1 - DESCRIZIONE: CERNIERA

Nodo	c.c.	Fx	Fy	Fz	Mx	My	Mz
1	1	+1.401e+003	+1.779e+002	+9.518e+002	-0.000e+000	-0.000e+000	-0.000e+000
3	1	+1.527e+000	+1.653e+003	+2.028e+003	-0.000e+000	-0.000e+000	-0.000e+000
11	1	-1.402e+003	+1.770e+002	+9.532e+002	-0.000e+000	-0.000e+000	-0.000e+000
24	1	-2.586e+003	-2.387e+001	+2.604e+003	-0.000e+000	-0.000e+000	-0.000e+000
34	1	+2.587e+003	-2.609e+001	+2.611e+003	-0.000e+000	-0.000e+000	-0.000e+000
36	1	+7.249e-001	-9.334e+002	+5.473e+003	-0.000e+000	-0.000e+000	-0.000e+000
43	1	-2.656e+003	+4.078e+001	+2.618e+003	-0.000e+000	-0.000e+000	-0.000e+000
53	1	+2.675e+003	+3.411e+001	+2.579e+003	-0.000e+000	-0.000e+000	-0.000e+000
55	1	-2.432e+001	+1.022e+003	+5.247e+003	-0.000e+000	-0.000e+000	-0.000e+000
62	1	-1.090e+003	-1.870e+002	+9.657e+002	-0.000e+000	-0.000e+000	-0.000e+000
72	1	+1.108e+003	-1.801e+002	+9.256e+002	-0.000e+000	-0.000e+000	-0.000e+000
74	1	-1.409e+001	-1.754e+003	+2.147e+003	-0.000e+000	-0.000e+000	-0.000e+000

## 16. SPOSTAMENTI/ROTAZIONI NODI NON BLOCCATI

### SPOSTAMENTI/ROTAZIONI NODI NON BLOCCATI

#### COMBINAZIONE DI CARICO: 1 - DESCRIZIONE: CARICHI TOTALI

Nodo	Trasl.X	Trasl.Y	Trasl._Z	Rotaz.X	Rotaz.Y	Rotaz.Z
1	-1.40e-006	-1.78e-007	-9.52e-007	-3.19e-003	+9.82e-004	-1.35e-003
2	+3.10e-004	-2.19e-001	-2.11e-002	-1.58e-003	+6.23e-005	-2.03e-006
3	-1.53e-009	-1.65e-006	-2.03e-006	-1.35e-003	-1.46e-007	-5.36e-006
4	+2.08e-005	+8.88e-003	-2.10e-002	-1.58e-003	-1.41e-004	-1.42e-005
5	+1.27e-002	+3.13e-004	-3.32e-002	-3.22e-003	+9.05e-004	-1.29e-003
6	+3.54e-002	-2.42e-003	-9.48e-002	-3.08e-003	+1.77e-004	-1.25e-003
7	+2.32e-002	-6.10e-003	-7.18e-002	-2.56e-003	-5.35e-004	-1.03e-003
8	-1.22e-003	+8.32e-003	-5.87e-003	-1.57e-003	-2.43e-004	+5.06e-004
9	-1.26e-002	-6.90e-004	-4.09e-002	-2.30e-003	-2.16e-004	+9.83e-004
10	-9.39e-003	-6.84e-003	-3.92e-002	-2.28e-003	+2.27e-004	+9.13e-004
11	+1.40e-006	-1.77e-007	-9.53e-007	-3.20e-003	-9.84e-004	+1.35e-003
12	-3.11e-004	-2.19e-001	-2.11e-002	-1.58e-003	-6.24e-005	+3.45e-006
13	-1.24e-005	+8.13e-003	-2.10e-002	-1.58e-003	+1.41e-004	+1.56e-005
14	+1.21e-003	+7.97e-003	-5.86e-003	-1.57e-003	+2.43e-004	+5.14e-004
15	-1.27e-002	+2.87e-004	-3.32e-002	-3.23e-003	-9.06e-004	+1.29e-003
16	+1.26e-002	-1.54e-003	-4.09e-002	-2.31e-003	+2.16e-004	-9.85e-004
17	+9.38e-003	-7.66e-003	-3.92e-002	-2.28e-003	-2.27e-004	-9.13e-004
18	-3.55e-002	-2.65e-003	-9.49e-002	-3.09e-003	-1.77e-004	+1.25e-003
19	-2.32e-002	-6.60e-003	-7.19e-002	-2.57e-003	+5.35e-004	+1.03e-003
20	+4.39e-002	-4.30e-003	-1.37e-001	+4.81e-004	+8.43e-004	-2.05e-004
21	-5.44e-002	-2.64e-003	-1.47e-001	+7.41e-004	-7.51e-004	-2.83e-004
22	+2.26e-002	-5.08e-003	-8.69e-002	+2.96e-004	-3.87e-004	+1.32e-004
23	+2.26e-002	-3.36e-003	-7.17e-002	+3.02e-004	+6.36e-004	+9.81e-005
24	+2.59e-006	+2.39e-008	-2.60e-006	+8.88e-004	-1.62e-003	-3.42e-004
25	+2.60e-004	-8.73e-004	-9.50e-004	+6.76e-005	+4.49e-005	+3.75e-006
26	-1.04e-005	-1.53e-003	-4.69e-002	+1.42e-004	+2.10e-004	-2.13e-006
27	+2.21e-002	+1.10e-003	+5.31e-002	+8.87e-004	-1.58e-003	-3.41e-004
28	+1.04e-002	+1.90e-002	-4.70e-002	+1.43e-004	-2.04e-004	+1.03e-006
29	-2.27e-002	+4.29e-003	-8.72e-002	+2.88e-004	+3.90e-004	-1.29e-004
30	-2.29e-002	-2.48e-003	-7.23e-002	+2.93e-004	-6.37e-004	-9.45e-005
31	-3.50e-004	-4.19e-004	-1.17e-003	+6.69e-005	-5.13e-005	-1.66e-005
32	+4.39e-002	-3.81e-003	-1.38e-001	+4.65e-004	-8.45e-004	+2.01e-004
33	+5.45e-002	-2.41e-003	-1.47e-001	+7.11e-004	+7.52e-004	+2.72e-004
34	-2.59e-006	+2.61e-008	-2.61e-006	+8.48e-004	+1.63e-003	+3.27e-004
35	+7.02e-006	-7.49e-004	-4.69e-002	+1.36e-004	-2.10e-004	+3.05e-006
36	-7.25e-010	+9.33e-007	-5.47e-006	+6.25e-005	-3.21e-006	-6.75e-006
37	-1.04e-002	+1.90e-002	-4.71e-002	+1.38e-004	+2.04e-004	+1.13e-007
38	-2.21e-002	+1.03e-003	+5.32e-002	+8.48e-004	+1.58e-003	+3.27e-004
39	-4.31e-002	-3.48e-003	-1.36e-001	-4.49e-004	+8.16e-004	+2.11e-004
40	-5.34e-002	-2.48e-003	-1.45e-001	-6.92e-004	-7.41e-004	+2.95e-004
41	+2.64e-002	-4.23e-003	-1.03e-001	-3.11e-004	-5.07e-004	-1.45e-004
42	+2.96e-002	-5.07e-003	-9.50e-002	-3.34e-004	+6.58e-004	-1.31e-004
43	+2.66e-006	+4.08e-008	-2.62e-006	-8.45e-004	-1.60e-003	+3.60e-004
44	-5.26e-004	-2.69e-003	-5.70e-003	-1.12e-004	+4.30e-004	-1.05e-004
45	-1.38e-003	-8.19e-003	-5.10e-002	-1.22e-004	+1.32e-004	+5.96e-006
46	+2.18e-002	+1.17e-004	+5.24e-002	-8.45e-004	-1.56e-003	+3.60e-004
47	+1.04e-002	-2.59e-002	-5.11e-002	-1.24e-004	-1.80e-004	+2.28e-006
48	-2.93e-002	-3.48e-003	-1.03e-001	-2.83e-004	+5.53e-004	+1.33e-004
49	-3.46e-002	-4.16e-003	-1.00e-001	-2.81e-004	-6.14e-004	+1.13e-004
50	-5.72e-003	-1.55e-003	-1.39e-002	-1.58e-005	-4.27e-004	+5.26e-005
51	+4.11e-002	-2.99e-003	-1.31e-001	-3.78e-004	-8.10e-004	-1.80e-004
52	+5.18e-002	-2.26e-003	-1.41e-001	-5.43e-004	+7.15e-004	-2.33e-004
53	-2.67e-006	-3.41e-008	-2.58e-006	-6.50e-004	+1.56e-003	-2.80e-004
54	+1.55e-005	-7.37e-003	-4.77e-002	-1.03e-004	-1.11e-004	-4.66e-006
55	+2.43e-008	-1.02e-006	-5.25e-006	-1.03e-005	-3.88e-004	+4.47e-005
56	-1.02e-002	-2.22e-002	-4.78e-002	-1.04e-004	+1.56e-004	-2.49e-006
57	-2.12e-002	+1.92e-004	+5.11e-002	-6.49e-004	+1.52e-003	-2.80e-004
58	-1.54e-002	-1.13e-003	-4.95e-002	+2.64e-003	+3.08e-004	-1.04e-003
59	-1.94e-002	-2.91e-003	-5.34e-002	+3.19e-003	-2.70e-004	-1.27e-003
60	+9.48e-003	-1.61e-003	-3.83e-002	+2.32e-003	-1.94e-004	+9.23e-004
61	+1.04e-002	-7.06e-003	-3.49e-002	+2.32e-003	+2.56e-004	+9.78e-004
62	+1.09e-006	+1.87e-007	-9.66e-007	+3.38e-003	-6.00e-004	-1.22e-003
63	-5.96e-004	-1.28e-002	-1.36e-003	+1.53e-003	+1.47e-004	+4.07e-004
64	-5.67e-004	-1.80e-002	-1.80e-002	+1.63e-003	+4.32e-005	-9.66e-006
65	+8.17e-003	+7.06e-003	+1.97e-002	+3.38e-003	-5.88e-004	-1.22e-003
66	+3.92e-003	+2.17e-001	-1.81e-002	+1.63e-003	-6.53e-005	+3.70e-006
67	-1.17e-002	-1.01e-003	-4.11e-002	-4.11e-002	+2.36e-004	-8.89e-004
68	-1.41e-002	-6.30e-003	-4.11e-002	+2.19e-003	-2.39e-004	-9.21e-004
69	-2.61e-003	-9.98e-003	-6.33e-003	+1.32e-003	-1.93e-004	-2.67e-004
70	+1.41e-002	-7.44e-004	-4.65e-002	+2.50e-003	-2.96e-004	+9.84e-004
71	+1.81e-002	-2.67e-003	-5.04e-002	+2.91e-003	+2.54e-004	+1.16e-003
72	-1.11e-006	+1.80e-007	-9.26e-007	+3.02e-003	+5.69e-004	+1.07e-003
73	+8.22e-005	-1.69e-002	-1.69e-002	+1.57e-003	-1.81e-005	+1.03e-005
74	+1.41e-008	+1.75e-006	-2.15e-006	+1.31e-003	-1.79e-004	-2.35e-004
75	-3.77e-003	+2.09e-001	-1.71e-002	+1.57e-003	+4.75e-005	+2.24e-006
76	-7.75e-003	+6.76e-003	+1.86e-002	+3.02e-003	+5.57e-004	+1.07e-003
77	+4.97e-002	+2.20e-004	-1.68e-001	-3.30e-003	+9.98e-004	-6.96e-004
78	+7.05e-002	+1.60e-004	-2.91e-001	-2.73e-003	+1.11e-003	-4.05e-004
79	+8.18e-002	+1.35e-004	-3.82e-001	-1.73e-003	+1.21e-003	-1.85e-004

80	+8.46e-002	+1.36e-004	-4.28e-001	-5.29e-004	+1.31e-003	+3.78e-005
81	+7.85e-002	+1.49e-004	-4.24e-001	+6.94e-004	+1.40e-003	+2.54e-004
82	+6.47e-002	+1.63e-004	-3.74e-001	+1.77e-003	+1.48e-003	+4.25e-004
83	+4.57e-002	+1.62e-004	-2.86e-001	+2.52e-003	+1.56e-003	+5.09e-004
84	+2.59e-002	+1.37e-004	-1.77e-001	+2.77e-003	+1.61e-003	+4.65e-004
85	+1.04e-002	+8.25e-005	-7.04e-002	+2.33e-003	+1.65e-003	+3.11e-004
86	-1.60e-002	-5.21e-005	-7.16e-004	-5.80e-004	+1.75e-003	+3.44e-004
87	-2.61e-002	-7.85e-005	-3.78e-002	-1.09e-003	+1.82e-003	+1.51e-004
88	-2.95e-002	-7.65e-005	-8.31e-002	-1.05e-003	+1.86e-003	+2.66e-005
89	-2.96e-002	-5.19e-005	-1.18e-001	-6.41e-004	+1.88e-003	-1.55e-005
90	-2.90e-002	-1.46e-005	-1.33e-001	-4.66e-005	+1.89e-003	-1.50e-005
91	-2.85e-002	+2.40e-005	-1.22e-001	+5.58e-004	+1.87e-003	-1.06e-005
92	-2.75e-002	+5.22e-005	-8.95e-002	+9.99e-004	+1.83e-003	-4.10e-005
93	-2.40e-002	+6.03e-005	-4.52e-002	+1.10e-003	+1.77e-003	-1.47e-004
94	-1.45e-002	+4.22e-005	-6.30e-003	+6.68e-004	+1.69e-003	-3.17e-004
95	+7.02e-003	-5.92e-005	-6.02e-002	-2.03e-003	+1.58e-003	-2.04e-004
96	+1.76e-002	-8.97e-005	-1.53e-001	-2.41e-003	+1.55e-003	-3.33e-004
97	+3.20e-002	-8.86e-005	-2.48e-001	-2.16e-003	+1.49e-003	-3.76e-004
98	+4.60e-002	-6.20e-005	-3.22e-001	-1.46e-003	+1.41e-003	-3.13e-004
99	+5.60e-002	-2.03e-005	-3.62e-001	-5.02e-004	+1.31e-003	-1.82e-004
100	+6.02e-002	+2.39e-005	-3.61e-001	+5.44e-004	+1.18e-003	-2.15e-005
101	+5.79e-002	+5.78e-005	-3.19e-001	+1.57e-003	+1.06e-003	+1.48e-004
102	+4.88e-002	+6.93e-005	-2.37e-001	+2.47e-003	+9.12e-004	+3.33e-004
103	+3.14e-002	+4.96e-005	-1.24e-001	+3.02e-003	+7.43e-004	+5.93e-004
104	-1.33e-002	-2.19e-002	-1.22e-002	-2.03e-003	+1.39e-003	-2.04e-004
105	-2.93e-003	-2.31e-002	-1.05e-001	-2.41e-003	+1.42e-003	-3.33e-004
106	-1.23e-002	-1.80e-002	-2.01e-001	-2.16e-003	+1.36e-003	-3.76e-004
107	+2.75e-002	-1.02e-002	-2.78e-001	-1.46e-003	+1.28e-003	-3.13e-004
108	+3.90e-002	-1.03e-003	-3.22e-001	-5.02e-004	+1.18e-003	-1.82e-004
109	+4.36e-002	+8.43e-003	-3.22e-001	+5.44e-004	+1.17e-003	-2.15e-005
110	+4.44e-002	+1.73e-002	-2.87e-001	+1.57e-003	+9.28e-004	+1.48e-004
111	+3.73e-002	+2.38e-002	-2.09e-001	+2.47e-003	+7.83e-004	+3.33e-004
112	+2.16e-002	+2.29e-002	-1.01e-001	+3.02e-003	+6.75e-004	+5.93e-004
113	-5.44e-002	-1.58e-002	-2.42e-002	-1.05e-003	+1.73e-003	+2.66e-005
114	-5.48e-002	-8.59e-003	-5.87e-002	-6.41e-004	+1.75e-003	-1.55e-005
115	-5.42e-002	-1.70e-004	-7.29e-002	-4.66e-005	+1.76e-003	-1.50e-005
116	-5.35e-002	+8.27e-003	-6.29e-002	+5.58e-004	+1.74e-003	-1.06e-005
117	-3.87e-002	-1.98e-002	+5.28e-002	-5.80e-004	+1.56e-003	+3.44e-004
118	-5.20e-002	+1.56e-002	-3.16e-002	+9.99e-004	+1.70e-003	-4.10e-005
119	-5.04e-002	-2.06e-002	+1.97e-002	-1.09e-003	+1.69e-003	+1.51e-004
120	-4.76e-002	+2.05e-002	+1.08e-002	+1.10e-003	+1.64e-003	-1.47e-004
121	-3.64e-002	+2.01e-002	+4.54e-002	+6.68e-004	+1.50e-003	-3.17e-004
122	+5.63e-002	-2.48e-002	-2.58e-001	-2.73e-003	+9.77e-004	-4.05e-004
123	+6.62e-002	-1.81e-002	-3.45e-001	-1.73e-003	+1.08e-003	-1.85e-004
124	+6.75e-002	-8.60e-003	-3.88e-001	-5.29e-004	+1.18e-003	+3.78e-005
125	+6.02e-002	+1.47e-003	-3.81e-001	+6.94e-004	+1.27e-003	+2.54e-004
126	+4.52e-002	+1.09e-002	-3.27e-001	+1.77e-003	+1.35e-003	+4.25e-004
127	+2.51e-002	+1.87e-002	-2.37e-001	+2.52e-003	+1.43e-003	+5.09e-004
128	+4.50e-003	+2.38e-002	-1.26e-001	+2.77e-003	+1.48e-003	+4.65e-004
129	+3.63e-002	-2.31e-002	-1.36e-001	-3.30e-003	+9.30e-004	+6.96e-004
130	-1.08e-002	+2.26e-002	-2.03e-002	+2.33e-003	+1.46e-003	+3.11e-004
131	+7.29e-002	-2.42e-003	-2.28e-001	-3.34e-003	+2.35e-004	-7.56e-004
132	+9.67e-002	-2.42e-003	-3.56e-001	-2.89e-003	+2.92e-004	-5.09e-004
133	+1.12e-001	-2.42e-003	-4.55e-001	-1.98e-003	+3.50e-004	-3.11e-004
134	+1.20e-001	-2.42e-003	-5.12e-001	-8.18e-004	+4.07e-004	-9.29e-005
135	+1.19e-001	-2.42e-003	-5.21e-001	+3.92e-004	+4.64e-004	+1.26e-004
136	+1.10e-001	-2.42e-003	-4.82e-001	+1.47e-003	+5.22e-004	+3.06e-004
137	+9.61e-002	-2.42e-003	-4.06e-001	+2.25e-003	+5.79e-004	+4.09e-004
138	+7.99e-002	-2.42e-003	-3.07e-001	+2.53e-003	+6.37e-004	+4.09e-004
139	+6.56e-002	-2.42e-003	-2.10e-001	+2.11e-003	+6.94e-004	+3.31e-004
140	+4.40e-002	-2.39e-003	-1.51e-001	-6.49e-004	+7.48e-004	+1.98e-004
141	+3.79e-002	-2.37e-003	-1.91e-001	-1.16e-003	+7.44e-004	+7.53e-005
142	+3.62e-002	-2.35e-003	-2.39e-001	-1.09e-003	+7.41e-004	-3.98e-006
143	+3.66e-002	-2.34e-003	-2.75e-001	-6.49e-004	+7.37e-004	-2.16e-005
144	+3.70e-002	-2.33e-003	-2.89e-001	-1.71e-005	+7.34e-004	-2.85e-006
145	+3.67e-002	-2.31e-003	-2.77e-001	+6.22e-004	+7.30e-004	+1.84e-005
146	+3.63e-002	-2.30e-003	-2.41e-001	+1.09e-003	+7.26e-004	+8.24e-006
147	+3.76e-002	-2.29e-003	-1.93e-001	+1.20e-003	+7.23e-004	-5.96e-005
148	+4.28e-002	-2.28e-003	-1.50e-001	+7.42e-004	+7.19e-004	-1.69e-004
149	+6.02e-002	-2.29e-003	-1.95e-001	-1.85e-003	+6.82e-004	-2.45e-004
150	+7.06e-002	-2.33e-003	-2.81e-001	-2.23e-003	+6.49e-004	-3.03e-004
151	+8.24e-002	-2.36e-003	-3.67e-001	-1.95e-003	+6.16e-004	-3.01e-004
152	+9.26e-002	-2.40e-003	-4.32e-001	-1.21e-003	+5.82e-004	-2.11e-004
153	+9.80e-002	-2.45e-003	-4.62e-001	-2.14e-004	+5.49e-004	-5.77e-005
154	+9.68e-002	-2.49e-003	-4.49e-001	+8.73e-004	+5.16e-004	+1.25e-004
155	+8.85e-002	-2.53e-003	-3.92e-001	+1.91e-003	+4.50e-004	+3.06e-004
156	+7.36e-002	-2.58e-003	-2.97e-001	+2.74e-003	+3.85e-004	+4.69e-004
157	+5.21e-002	-2.62e-003	-1.76e-001	+3.16e-003	+3.20e-004	+6.80e-004
158	+5.30e-002	-5.84e-003	-1.89e-001	-3.03e-003	-5.66e-004	-6.21e-004
159	+7.41e-002	-5.59e-003	-3.08e-001	-2.73e-003	-5.97e-004	-4.79e-004
160	+8.97e-002	-5.35e-003	-4.03e-001	-1.94e-003	-6.28e-004	-3.19e-004
161	+9.83e-002	-5.12e-003	-4.61e-001	-8.81e-004	-6.59e-004	-1.23e-004
162	+9.91e-002	-4.89e-003	-4.73e-001	+2.69e-004	-6.90e-004	+7.42e-005
163	+9.28e-002	-4.67e-003	-4.40e-001	+1.32e-003	-7.21e-004	+2.40e-004
164	+8.12e-002	-4.45e-003	-3.70e-001	+2.07e-003	-7.52e-004	+3.46e-004
165	+6.72e-002	-4.24e-003	-2.79e-001	+2.32e-003	-7.83e-004	+3.70e-004
166	+5.38e-002	-4.02e-003	-1.91e-001	+1.88e-003	-8.14e-004	+3.10e-004
167	+3.99e-002	-3.72e-003	-1.51e-001	-8.64e-004	-8.42e-004	-2.40e-005
168	+4.01e-002	-3.64e-003	-1.99e-001	-1.35e-003	-8.38e-004	-5.15e-005
169	+4.23e-002	-3.56e-003	-2.53e-001	-1.23e-003	-8.35e-004	-7.13e-005

170	+4.44e-002	-3.48e-003	-2.94e-001	-7.15e-004	-8.31e-004	-4.66e-005
171	+4.51e-002	-3.40e-003	-3.09e-001	+1.63e-006	-8.28e-004	+5.30e-006
172	+4.39e-002	-3.32e-003	-2.94e-001	+7.22e-004	-8.24e-004	+5.77e-005
173	+4.13e-002	-3.24e-003	-2.53e-001	+1.25e-003	-8.21e-004	+8.40e-005
174	+3.86e-002	-3.16e-003	-1.97e-001	+1.38e-003	-8.17e-004	+6.58e-005
175	+3.77e-002	-3.08e-003	-1.47e-001	+9.22e-004	-8.14e-004	-8.51e-006
176	+4.28e-002	-9.96e-004	-1.61e-001	+2.99e-003	-3.48e-004	+6.09e-004
177	+6.40e-002	-1.24e-003	-2.79e-001	+2.72e-003	-3.99e-004	+4.91e-004
178	+8.05e-002	-1.48e-003	-3.75e-001	+1.96e-003	-4.51e-004	+3.44e-004
179	+9.02e-002	-1.70e-003	-4.34e-001	+9.24e-004	-5.02e-004	+1.50e-004
180	+9.20e-002	-1.93e-003	-4.48e-001	-2.01e-004	-5.53e-004	-4.96e-005
181	+8.67e-002	-2.15e-003	-4.18e-001	-1.23e-003	-6.05e-004	-2.17e-004
182	+7.60e-002	-2.36e-003	-3.52e-001	-1.97e-003	-6.56e-004	-3.23e-004
183	+6.28e-002	-2.57e-003	-2.65e-001	-2.22e-003	-7.08e-004	-3.50e-004
184	+1.06e-004	+7.98e-003	-7.91e-002	-1.45e-003	-1.48e-004	+2.26e-006
185	-3.50e-005	+7.03e-003	-1.38e-001	-1.44e-003	-1.54e-004	+3.73e-006
186	-1.99e-004	+6.03e-003	-1.92e-001	-1.15e-003	-1.61e-004	+3.99e-006
187	-3.65e-004	+4.99e-003	-2.28e-001	-5.90e-004	-1.68e-004	+3.47e-006
188	-4.82e-004	+3.95e-003	-2.38e-001	+1.06e-004	-1.75e-004	+1.81e-006
189	-5.17e-004	+2.91e-003	-2.19e-001	+7.78e-004	-1.82e-004	-4.33e-007
190	-4.56e-004	+1.91e-003	-1.77e-001	+1.26e-003	-1.89e-004	-2.80e-006
191	-3.00e-004	+9.71e-004	-1.22e-001	+1.37e-003	-1.96e-004	-4.79e-006
192	-8.99e-005	+8.81e-005	-7.15e-002	+9.87e-004	-2.03e-004	-4.67e-006
193	-5.94e-005	-1.34e-003	-6.28e-002	-7.90e-004	-2.00e-004	+1.78e-006
194	-1.53e-004	-1.96e-003	-1.05e-001	-1.18e-003	-1.90e-004	+2.83e-006
195	-2.71e-004	-2.62e-003	-1.53e-001	-1.08e-003	-1.80e-004	+2.78e-006
196	-3.63e-004	-3.33e-003	-1.88e-001	-6.28e-004	-1.70e-004	+1.59e-006
197	-3.93e-004	-4.05e-003	-2.02e-001	-1.23e-005	-1.60e-004	-1.26e-007
198	-3.55e-004	-4.78e-003	-1.89e-001	+6.06e-004	-1.51e-004	-1.77e-006
199	-2.62e-004	-5.49e-003	-1.55e-001	+1.06e-003	-1.41e-004	-2.66e-006
200	-1.59e-004	-6.16e-003	-1.07e-001	+1.18e-003	-1.31e-004	-2.37e-006
201	-8.34e-005	-6.78e-003	-6.45e-002	+8.06e-004	-1.21e-004	-1.92e-006
202	+1.12e-004	-8.20e-003	-7.06e-002	-9.48e-004	-1.02e-004	-2.35e-006
203	+2.55e-004	-9.07e-003	-1.19e-001	-1.34e-003	-9.26e-005	-5.24e-006
204	+5.45e-004	-9.99e-003	-1.73e-001	-1.24e-003	-8.33e-005	-8.31e-006
205	+9.15e-004	-1.10e-002	-2.15e-001	-7.70e-004	-7.40e-005	-8.72e-006
206	+1.23e-003	-1.20e-002	-2.33e-001	-1.09e-004	-6.47e-005	-5.47e-006
207	+1.33e-003	-1.30e-002	-2.24e-001	+5.79e-004	-5.53e-005	+8.89e-007
208	+1.15e-003	-1.40e-002	-1.88e-001	+1.14e-003	-4.60e-005	+7.47e-006
209	+7.52e-004	-1.50e-002	-1.35e-001	+1.44e-003	-3.67e-005	+1.03e-005
210	+3.55e-004	-1.60e-002	-7.56e-002	+1.46e-003	-2.74e-005	+7.49e-006
211	-3.59e-002	-6.55e-003	-1.48e-001	-2.90e-003	+2.44e-004	+5.67e-004
212	-5.58e-002	-6.27e-003	-2.64e-001	-2.68e-003	+2.60e-004	+4.62e-004
213	-7.11e-002	-6.00e-003	-3.58e-001	-1.92e-003	+2.76e-004	+3.17e-004
214	-7.96e-002	-5.74e-003	-4.15e-001	-8.56e-004	+2.93e-004	+1.20e-004
215	-8.01e-002	-5.48e-003	-4.26e-001	+3.13e-004	+3.09e-004	-8.85e-005
216	-7.30e-002	-5.24e-003	-3.91e-001	+1.38e-003	+3.25e-004	-2.66e-004
217	-6.02e-002	-5.00e-003	-3.18e-001	+2.13e-003	+3.42e-004	-3.78e-004
218	-4.49e-002	-4.76e-003	-2.25e-001	+2.36e-003	+3.58e-004	-3.94e-004
219	-3.11e-002	-4.52e-003	-1.36e-001	+1.84e-003	+3.74e-004	-3.00e-004
220	-2.25e-002	-4.20e-003	-1.09e-001	-1.11e-003	+4.07e-004	+8.64e-005
221	-2.75e-002	-4.12e-003	-1.68e-001	-1.62e-003	+4.23e-004	+1.70e-004
222	-3.41e-002	-4.04e-003	-2.33e-001	-1.46e-003	+4.39e-004	+1.73e-004
223	-3.97e-002	-3.96e-003	-2.81e-001	-8.72e-004	+4.55e-004	+1.15e-004
224	-4.24e-002	-3.88e-003	-3.01e-001	-6.26e-005	+4.72e-004	+2.14e-005
225	-4.14e-002	-3.80e-003	-2.86e-001	+7.52e-004	+4.88e-004	-7.38e-005
226	-3.74e-002	-3.72e-003	-2.42e-001	+1.36e-003	+5.04e-004	-1.35e-004
227	-3.22e-002	-3.64e-003	-1.81e-001	+1.54e-003	+5.20e-004	-1.37e-004
228	-2.84e-002	-3.56e-003	-1.25e-001	+1.08e-003	+5.37e-004	-6.05e-005
229	-3.79e-002	-3.25e-003	-1.51e-001	-1.81e-003	+5.21e-004	+2.97e-004
230	-5.12e-002	-3.02e-003	-2.39e-001	-2.31e-003	+4.89e-004	+3.76e-004
231	-6.56e-002	-2.79e-003	-3.30e-001	-2.08e-003	+4.58e-004	+3.51e-004
232	-7.72e-002	-2.55e-003	-4.00e-001	-1.32e-003	+4.26e-004	+2.36e-004
233	-8.31e-002	-2.31e-003	-4.33e-001	-2.54e-004	+3.94e-004	+5.98e-005
234	-8.15e-002	-2.07e-003	-4.20e-001	+9.08e-004	+3.63e-004	-1.42e-004
235	-7.23e-002	-1.82e-003	-3.61e-001	+1.96e-003	+3.31e-004	-3.30e-004
236	-5.67e-002	-1.56e-003	-2.65e-001	+2.70e-003	+2.99e-004	-4.60e-004
237	-3.73e-002	-1.29e-003	-1.49e-001	+2.89e-003	+2.67e-004	-5.50e-004
238	-4.06e-002	-8.64e-004	-1.51e-001	-2.91e-003	-2.58e-004	+5.68e-004
239	-5.90e-002	-1.04e-003	-2.66e-001	-2.67e-003	-3.00e-004	+4.21e-004
240	-7.26e-002	-1.22e-003	-3.60e-001	-1.88e-003	-3.42e-004	+2.82e-004
241	-7.98e-002	-1.40e-003	-4.15e-001	-7.95e-004	-3.84e-004	+9.14e-005
242	-7.91e-002	-1.58e-003	-4.23e-001	+3.84e-004	-4.26e-004	-1.18e-004
243	-7.07e-002	-1.76e-003	-3.85e-001	+1.45e-003	-4.68e-004	-2.96e-004
244	-5.68e-002	-1.94e-003	-3.10e-001	+2.20e-003	-5.10e-004	-3.94e-004
245	-4.14e-002	-2.12e-003	-2.14e-001	+2.42e-003	-5.53e-004	-3.74e-004
246	-2.92e-002	-2.30e-003	-1.22e-001	+1.89e-003	-5.95e-004	-2.50e-004
247	-2.07e-002	-2.64e-003	-9.58e-002	-1.16e-003	-6.34e-004	+2.39e-005
248	-2.37e-002	-2.81e-003	-1.57e-001	-1.66e-003	-6.32e-004	+1.44e-004
249	-3.01e-002	-2.97e-003	-2.23e-001	-1.50e-003	-6.30e-004	+1.82e-004
250	-3.64e-002	-3.14e-003	-2.73e-001	-9.11e-004	-6.28e-004	+1.35e-004
251	-3.99e-002	-3.31e-003	-2.94e-001	-1.06e-004	-6.26e-004	+4.01e-005
252	-3.95e-002	-3.48e-003	-2.82e-001	+7.08e-004	-6.23e-004	-5.78e-005
253	-3.62e-002	-3.65e-003	-2.39e-001	+1.32e-003	-6.21e-004	-1.13e-004
254	-3.22e-002	-3.83e-003	-1.79e-001	+1.53e-003	-6.19e-004	-8.76e-005
255	-3.12e-002	-4.00e-003	-1.23e-001	+1.09e-003	-6.17e-004	+1.67e-005
256	-4.09e-002	-4.37e-003	-1.49e-001	-1.82e-003	-5.77e-004	+2.33e-004
257	-5.18e-002	-4.58e-003	-2.37e-001	-2.32e-003	-5.39e-004	+3.32e-004
258	-6.51e-002	-4.79e-003	-3.28e-001	-2.08e-003	-5.02e-004	+3.38e-004
259	-7.66e-002	-5.00e-003	-3.99e-001	-1.32e-003	-4.64e-004	+2.36e-004



260	-8.26e-002	-5.22e-003	-4.31e-001	-2.56e-004	-4.27e-004	+6.12e-005
261	-8.12e-002	-5.43e-003	-4.18e-001	+9.04e-004	-3.89e-004	-1.38e-004
262	-7.24e-002	-5.65e-003	-3.60e-001	+1.96e-003	-3.52e-004	-3.12e-004
263	-5.80e-002	-5.87e-003	-2.64e-001	+2.70e-003	-3.14e-004	-4.28e-004
264	-3.99e-002	-6.08e-003	-1.48e-001	+2.88e-003	-2.77e-004	-5.35e-004
265	-1.10e-002	+7.38e-003	-7.74e-002	-1.86e-003	-2.24e-004	+1.01e-004
266	-1.10e-002	+6.47e-003	-1.50e-001	-1.64e-003	-2.05e-004	-3.55e-005
267	-8.18e-003	+5.60e-003	-2.06e-001	-1.09e-003	-1.86e-004	-7.33e-005
268	-4.52e-003	+4.76e-003	-2.35e-001	-3.71e-004	-1.66e-004	-9.64e-005
269	-9.96e-005	+3.93e-003	-2.35e-001	+3.81e-004	-1.47e-004	-1.18e-004
270	+4.71e-003	+3.10e-003	-2.06e-001	+1.04e-003	-1.28e-004	-1.19e-004
271	+8.69e-003	+2.26e-003	-1.54e-001	+1.48e-003	-1.09e-004	-7.74e-005
272	+9.67e-003	+1.40e-003	-9.04e-002	+1.59e-003	-8.97e-005	+2.73e-005
273	+5.52e-003	+5.02e-004	-3.16e-002	+1.20e-003	-7.05e-005	+1.52e-004
274	+7.46e-003	-5.83e-004	-2.11e-002	-8.44e-004	-8.88e-005	-2.22e-004
275	+1.53e-002	-7.23e-004	-6.26e-002	-1.10e-003	-1.26e-004	-1.39e-004
276	+1.93e-002	-8.34e-004	-1.06e-001	-9.64e-004	-1.64e-004	-5.62e-005
277	+2.07e-002	-9.23e-004	-1.37e-001	-5.75e-004	-2.01e-004	-9.09e-006
278	+2.06e-002	-1.00e-003	-1.50e-001	-5.70e-005	-2.39e-004	+1.93e-005
279	+1.92e-002	-1.07e-003	-1.42e-001	+4.67e-004	-2.77e-004	+4.58e-005
280	+1.65e-002	-1.16e-003	-1.14e-001	+8.73e-004	-3.14e-004	+8.72e-005
281	+1.14e-002	-1.27e-003	-7.42e-002	+1.04e-003	-3.52e-004	+1.61e-004
282	+2.89e-003	-1.40e-003	-3.44e-002	+8.27e-004	-3.89e-004	+2.38e-004
283	+4.46e-004	-2.45e-003	-4.16e-002	-1.12e-003	-4.03e-004	-1.83e-004
284	+6.46e-003	-3.32e-003	-9.64e-002	-1.47e-003	-3.80e-004	-8.13e-005
285	+7.85e-003	-4.16e-003	-1.55e-001	-1.35e-003	-3.57e-004	+1.68e-005
286	+6.33e-003	-4.97e-003	-2.01e-001	-9.10e-004	-3.33e-004	+6.07e-005
287	+3.72e-003	-5.77e-003	-2.26e-001	-2.73e-004	-3.10e-004	+6.96e-005
288	+9.12e-004	-6.57e-003	-2.23e-001	+4.38e-004	-2.87e-004	+6.72e-005
289	-2.02e-003	-7.38e-003	-1.91e-001	+1.10e-003	-2.63e-004	+6.87e-005
290	-5.16e-003	-8.21e-003	-1.37e-001	+1.57e-003	-2.40e-004	+6.01e-005
291	-7.02e-003	-9.08e-003	-6.92e-002	+1.68e-003	-2.17e-004	-2.38e-005
292	+1.11e-002	+7.02e-003	-7.74e-002	-1.86e-003	+2.23e-004	-1.02e-004
293	+1.10e-002	+6.10e-003	-1.50e-001	-1.64e-003	+2.03e-004	+3.68e-005
294	+8.19e-003	+5.22e-003	-2.06e-001	-1.09e-003	+1.83e-004	+7.49e-005
295	+4.46e-003	+4.37e-003	-2.35e-001	-3.69e-004	+1.64e-004	+9.82e-005
296	-3.42e-005	+3.53e-003	-2.35e-001	+3.83e-004	+1.44e-004	+1.19e-004
297	-4.92e-003	+2.69e-003	-2.06e-001	+1.04e-003	+1.24e-004	+1.21e-004
298	-8.94e-003	+1.84e-003	-1.54e-001	+1.48e-003	+1.04e-004	+7.84e-005
299	-9.96e-003	+9.61e-004	-9.01e-002	+1.59e-003	+8.45e-005	-2.68e-005
300	-5.81e-003	+5.75e-005	-3.13e-002	+1.20e-003	+6.47e-005	-1.53e-004
301	-7.66e-003	-1.11e-003	-2.04e-002	-8.18e-004	+8.34e-005	+2.35e-004
302	-1.63e-002	-1.32e-003	-6.03e-002	-1.05e-003	+1.22e-004	+1.64e-004
303	-2.15e-002	-1.50e-003	-1.01e-001	-9.06e-004	+1.60e-004	+8.80e-005
304	-2.42e-002	-1.66e-003	-1.31e-001	-5.14e-004	+1.99e-004	+4.35e-005
305	-2.55e-002	-1.80e-003	-1.41e-001	-1.62e-006	+2.38e-004	+1.37e-005
306	-2.54e-002	-1.94e-003	-1.31e-001	+5.08e-004	+2.76e-004	-1.82e-005
307	-2.36e-002	-2.10e-003	-1.02e-001	+8.92e-004	+3.15e-004	-6.88e-005
308	-1.90e-002	-2.27e-003	-6.17e-002	+1.03e-003	+3.53e-004	-1.56e-004
309	-1.03e-002	-2.47e-003	-2.32e-002	+7.74e-004	+3.92e-004	-2.53e-004
310	-4.76e-003	-3.75e-003	-3.75e-002	-1.22e-003	+4.02e-004	+1.36e-004
311	-8.86e-003	-4.78e-003	-9.65e-002	-1.57e-003	+3.73e-004	+3.35e-005
312	-8.35e-003	-5.79e-003	-1.59e-001	-1.44e-003	+3.45e-004	+6.22e-005
313	-5.13e-003	-6.77e-003	-2.09e-001	-9.80e-004	+3.17e-004	-9.84e-005
314	-1.23e-003	-7.73e-003	-2.35e-001	-3.15e-004	+2.88e-004	-9.47e-005
315	-2.28e-003	-8.70e-003	-2.33e-001	+4.32e-004	+2.60e-004	-7.56e-005
316	+5.18e-003	-9.67e-003	-2.01e-001	+1.14e-003	+2.32e-004	-5.80e-005
317	+7.50e-003	-1.07e-002	-1.44e-001	+1.66e-003	+2.03e-004	-2.82e-005
318	+7.55e-003	-1.17e-002	-7.16e-002	+1.84e-003	+1.75e-004	+8.80e-005
319	+4.06e-002	-1.72e-003	-1.51e-001	-2.91e-003	+2.58e-004	-5.69e-004
320	+5.91e-002	-1.90e-003	-2.66e-001	-2.67e-003	+3.00e-004	-4.22e-004
321	+7.27e-002	-2.08e-003	-3.60e-001	-1.89e-003	+3.42e-004	-2.82e-004
322	+7.99e-002	-2.26e-003	-4.15e-001	-7.96e-004	+3.84e-004	-9.08e-005
323	+7.91e-002	-2.44e-003	-4.23e-001	+3.84e-004	+4.26e-004	+1.19e-004
324	+7.07e-002	-2.63e-003	-3.85e-001	+1.45e-003	+4.68e-004	+2.97e-004
325	+5.67e-002	-2.81e-003	-3.10e-001	+2.20e-003	+5.10e-004	+3.96e-004
326	+4.13e-002	-3.00e-003	-2.14e-001	+2.43e-003	+5.52e-004	+3.76e-004
327	+2.90e-002	-3.18e-003	-1.22e-001	+1.89e-003	+5.94e-004	+2.51e-004
328	+2.02e-002	-3.53e-003	-9.46e-002	-1.14e-003	+6.39e-004	-1.38e-005
329	+2.26e-002	-3.69e-003	-1.54e-001	-1.63e-003	+6.41e-004	-1.26e-004
330	+2.83e-002	-3.86e-003	-2.20e-001	-1.47e-003	+6.43e-004	-1.61e-004
331	+3.36e-002	-4.03e-003	-2.68e-001	-8.79e-004	+6.45e-004	-1.13e-004
332	+3.62e-002	-4.20e-003	-2.88e-001	-7.78e-005	+6.47e-004	-1.86e-005
333	+3.51e-002	-4.38e-003	-2.75e-001	+7.28e-004	+6.49e-004	+7.62e-005
334	+3.10e-002	-4.55e-003	-2.32e-001	+1.33e-003	+6.51e-004	+1.27e-004
335	+2.67e-002	-4.72e-003	-1.72e-001	+1.52e-003	+6.54e-004	+9.30e-005
336	+2.56e-002	-4.90e-003	-1.16e-001	+1.07e-003	+6.56e-004	-2.32e-005
337	+3.68e-002	-5.26e-003	-1.46e-001	-1.88e-003	+6.18e-004	-2.59e-004
338	+4.88e-002	-5.45e-003	-2.36e-001	-2.37e-003	+5.77e-004	-3.59e-004
339	+6.32e-002	-5.65e-003	-3.29e-001	-2.12e-003	+5.37e-004	-3.64e-004
340	+7.57e-002	-5.85e-003	-4.01e-001	-1.35e-003	+4.97e-004	-2.58e-004
341	+8.25e-002	-6.05e-003	-4.34e-001	-2.71e-004	+4.57e-004	-7.50e-005
342	+8.14e-002	-6.26e-003	-4.21e-001	+9.08e-004	+4.16e-004	+1.34e-004
343	+7.26e-002	-6.46e-003	-3.62e-001	+1.99e-003	+3.76e-004	+3.21e-004
344	+5.76e-002	-6.66e-003	-2.65e-001	+2.76e-003	+3.36e-004	+4.50e-004
345	+3.83e-002	-6.86e-003	-1.46e-001	+2.97e-003	+2.96e-004	+5.76e-004
346	+3.59e-002	-7.36e-003	-1.48e-001	-2.90e-003	-2.43e-004	-5.68e-004
347	+5.58e-002	-7.08e-003	-2.64e-001	-2.68e-003	-2.59e-004	-4.63e-004
348	+7.12e-002	-6.81e-003	-3.58e-001	-1.92e-003	-2.75e-004	-3.17e-004
349	+7.97e-002	-6.55e-003	-4.15e-001	-8.58e-004	-2.91e-004	-1.19e-004

350	+8.02e-002	-6.29e-003	-4.26e-001	+3.12e-004	-3.07e-004	+8.92e-005
351	+7.30e-002	-6.04e-003	-3.91e-001	+1.38e-003	-3.23e-004	+2.67e-004
352	+6.02e-002	-5.80e-003	-3.19e-001	+2.13e-003	-3.39e-004	+3.79e-004
353	+4.48e-002	-5.56e-003	-2.25e-001	+2.36e-003	-3.55e-004	+3.94e-004
354	+3.11e-002	-5.32e-003	-1.36e-001	+1.84e-003	-3.71e-004	+3.01e-004
355	+2.22e-002	-4.99e-003	-1.08e-001	-1.10e-003	-3.99e-004	-8.06e-005
356	+2.69e-002	-4.90e-003	-1.67e-001	-1.61e-003	-4.11e-004	-1.61e-004
357	+3.31e-002	-4.82e-003	-2.31e-001	-1.45e-003	-4.23e-004	-1.62e-004
358	+3.82e-002	-4.74e-003	-2.79e-001	-8.63e-004	-4.35e-004	-1.03e-004
359	+4.04e-002	-4.66e-003	-2.98e-001	-5.73e-005	-4.47e-004	-9.49e-006
360	+3.89e-002	-4.57e-003	-2.84e-001	+7.53e-004	-4.59e-004	+8.41e-005
361	+3.45e-002	-4.49e-003	-2.40e-001	+1.35e-003	-4.71e-004	+1.43e-004
362	+2.90e-002	-4.41e-003	-1.79e-001	+1.53e-003	-4.83e-004	+1.40e-004
363	+2.52e-002	-4.32e-003	-1.23e-001	+1.06e-003	-4.95e-004	+5.87e-005
364	+3.55e-002	-3.99e-003	-1.52e-001	-1.83e-003	-4.75e-004	-3.12e-004
365	+4.95e-002	-3.75e-003	-2.40e-001	-2.34e-003	-4.44e-004	-3.94e-004
366	+6.45e-002	-3.50e-003	-3.33e-001	-2.09e-003	-4.13e-004	-3.68e-004
367	+7.68e-002	-3.25e-003	-4.04e-001	-1.33e-003	-3.82e-004	-2.50e-004
368	+8.32e-002	-3.00e-003	-4.36e-001	-2.56e-004	-3.50e-004	-6.86e-005
369	+8.18e-002	-2.73e-003	-4.23e-001	+9.16e-004	-3.19e-004	+1.41e-004
370	+7.25e-002	-2.47e-003	-3.64e-001	+1.98e-003	-2.88e-004	+3.37e-004
371	+5.65e-002	-2.19e-003	-2.67e-001	+2.74e-003	-2.56e-004	+4.76e-004
372	+3.62e-002	-1.90e-003	-1.49e-001	+2.95e-003	-2.25e-004	+5.73e-004
373	-1.14e-004	+7.22e-003	-7.91e-002	-1.45e-003	+1.48e-004	-2.28e-006
374	+3.57e-005	+6.27e-003	-1.38e-001	-1.44e-003	+1.55e-004	-3.86e-006
375	+2.03e-004	+5.27e-003	-1.92e-001	-1.15e-003	+1.62e-004	-3.89e-006
376	+3.62e-004	+4.23e-003	-2.28e-001	-5.92e-004	+1.69e-004	-3.22e-006
377	+4.70e-004	+3.18e-003	-2.38e-001	+1.04e-004	+1.76e-004	-1.53e-006
378	+4.96e-004	+2.14e-003	-2.19e-001	+7.77e-004	+1.83e-004	+6.60e-007
379	+4.29e-004	+1.14e-003	-1.77e-001	+1.26e-003	+1.90e-004	+2.82e-006
380	+2.82e-004	+1.94e-004	-1.22e-001	+1.37e-003	+1.97e-004	+4.47e-006
381	+8.98e-005	-6.92e-004	-7.16e-002	+9.91e-004	+2.03e-004	+4.38e-006
382	+6.72e-006	-2.12e-003	-6.26e-002	-7.90e-004	+2.03e-004	-4.47e-008
383	+5.73e-006	-2.74e-003	-1.05e-001	-1.18e-003	+1.95e-004	+1.82e-007
384	-2.46e-005	-3.41e-003	-1.53e-001	-1.08e-003	+1.87e-004	+1.40e-006
385	-1.20e-004	-4.12e-003	-1.89e-001	-6.37e-004	+1.79e-004	+3.27e-006
386	-2.94e-004	-4.85e-003	-2.03e-001	-2.35e-005	+1.71e-004	+5.22e-006
387	-5.40e-004	-5.58e-003	-1.91e-001	+5.94e-004	+1.63e-004	+6.73e-006
388	-8.25e-004	-6.29e-003	-1.56e-001	+1.05e-003	+1.55e-004	+6.98e-006
389	-1.08e-003	-6.97e-003	-1.10e-001	+1.17e-003	+1.47e-004	+5.37e-006
390	-1.24e-003	-7.59e-003	-6.72e-002	+7.95e-004	+1.40e-004	+3.28e-006
391	-1.24e-003	-9.05e-003	-7.46e-002	-9.64e-004	+1.23e-004	-8.13e-006
392	-8.13e-004	-9.95e-003	-1.24e-001	-1.36e-003	+1.14e-004	-1.04e-005
393	-4.18e-004	-1.09e-002	-1.79e-001	-1.26e-003	+1.05e-004	-8.33e-006
394	-1.32e-004	-1.19e-002	-2.21e-001	-7.81e-004	+9.63e-005	-5.52e-006
395	+3.99e-005	-1.30e-002	-2.40e-001	-1.09e-004	+8.75e-005	-2.71e-006
396	+9.72e-005	-1.40e-002	-2.30e-001	+5.93e-004	+7.86e-005	+1.54e-008
397	+4.46e-005	-1.51e-002	-1.94e-001	+1.17e-003	+6.98e-005	+2.66e-006
398	-1.22e-004	-1.61e-002	-1.39e-001	+1.47e-003	+6.09e-005	+5.81e-006
399	-4.17e-004	-1.71e-002	-7.84e-002	+1.50e-003	+5.21e-005	+7.62e-006
400	-5.31e-002	-6.34e-003	-1.89e-001	-3.04e-003	+5.66e-004	+6.24e-004
401	-7.44e-002	-6.09e-003	-3.08e-001	-2.74e-003	+5.97e-004	+4.81e-004
402	-9.00e-002	-5.85e-003	-4.04e-001	-1.95e-003	+6.28e-004	+3.20e-004
403	-9.86e-002	-5.61e-003	-4.62e-001	-8.84e-004	+6.59e-004	+1.24e-004
404	-9.94e-002	-5.38e-003	-4.74e-001	+2.68e-004	+6.89e-004	-7.40e-005
405	-9.31e-002	-5.16e-003	-4.41e-001	+1.32e-003	+7.20e-004	-2.40e-004
406	-8.15e-002	-4.94e-003	-3.71e-001	+2.07e-003	+7.51e-004	-3.47e-004
407	-6.74e-002	-4.73e-003	-2.80e-001	+2.33e-003	+7.82e-004	-3.73e-004
408	-5.39e-002	-4.52e-003	-1.91e-001	+1.89e-003	+8.13e-004	-3.14e-004
409	-3.96e-002	-4.21e-003	-1.50e-001	-8.48e-004	+8.41e-004	-2.86e-005
410	-3.97e-002	-4.13e-003	-1.98e-001	-1.34e-003	+8.38e-004	+4.73e-005
411	-4.17e-002	-4.05e-003	-2.52e-001	-1.22e-003	+8.35e-004	+6.85e-005
412	-4.38e-002	-3.97e-003	-2.92e-001	-7.12e-004	+8.32e-004	+4.59e-005
413	-4.45e-002	-3.89e-003	-3.07e-001	-2.64e-006	+8.30e-004	-3.01e-006
414	-4.35e-002	-3.81e-003	-2.92e-001	+7.08e-004	+8.27e-004	-5.18e-005
415	-4.12e-002	-3.73e-003	-2.52e-001	+1.22e-003	+8.24e-004	-7.38e-005
416	-3.90e-002	-3.65e-003	-1.98e-001	+1.34e-003	+8.21e-004	-5.11e-005
417	-3.88e-002	-3.56e-003	-1.50e-001	+8.66e-004	+8.18e-004	+2.85e-005
418	-5.31e-002	-3.26e-003	-1.88e-001	-1.86e-003	+7.65e-004	+3.06e-004
419	-6.60e-002	-3.04e-003	-2.76e-001	-2.29e-003	+7.14e-004	+3.55e-004
420	-7.93e-002	-2.82e-003	-3.66e-001	-2.03e-003	+6.63e-004	+3.24e-004
421	-8.98e-002	-2.60e-003	-4.34e-001	-1.27e-003	+6.13e-004	+2.14e-004
422	-9.50e-002	-2.37e-003	-4.65e-001	-2.16e-004	+5.62e-004	+4.64e-005
423	-9.30e-002	-2.13e-003	-4.50e-001	+9.41e-004	+5.11e-004	-1.50e-004
424	-8.34e-002	-1.90e-003	-3.90e-001	+2.01e-003	+4.60e-004	-3.43e-004
425	-6.70e-002	-1.65e-003	-2.92e-001	+2.80e-003	+4.10e-004	-4.95e-004
426	-4.54e-002	-1.40e-003	-1.70e-001	+3.11e-003	+3.59e-004	-6.28e-004
427	-7.32e-002	-2.65e-003	-2.28e-001	-3.35e-003	-2.35e-004	+7.60e-004
428	-9.71e-002	-2.65e-003	-3.57e-001	-2.90e-003	-2.92e-004	+5.13e-004
429	-1.13e-001	-2.64e-003	-4.57e-001	-1.99e-003	-3.49e-004	+3.14e-004
430	-1.21e-001	-2.64e-003	-5.14e-001	-8.26e-004	-4.07e-004	+9.54e-005
431	-1.20e-001	-2.64e-003	-5.23e-001	+3.89e-004	-4.64e-004	-1.25e-004
432	-1.11e-001	-2.65e-003	-4.84e-001	+1.48e-003	-5.21e-004	-3.07e-004
433	-9.68e-002	-2.65e-003	-4.07e-001	+2.25e-003	-5.79e-004	-4.12e-004
434	-8.04e-002	-2.65e-003	-3.08e-001	+2.54e-003	-6.36e-004	-4.14e-004
435	-6.59e-002	-2.64e-003	-2.10e-001	+2.13e-003	-6.93e-004	-3.39e-004
436	-4.34e-002	-2.61e-003	-1.50e-001	-6.10e-004	-7.50e-004	-2.13e-004
437	-3.67e-002	-2.60e-003	-1.88e-001	-1.12e-003	-7.49e-004	-9.16e-005
438	-3.43e-002	-2.58e-003	-2.34e-001	-1.05e-003	-7.48e-004	-1.13e-005
439	-3.41e-002	-2.57e-003	-2.69e-001	-6.19e-004	-7.47e-004	+9.89e-006

440	-3.42e-002	-2.55e-003	-2.82e-001	-2.63e-006	-7.46e-004	-2.76e-006
441	-3.38e-002	-2.54e-003	-2.69e-001	+6.15e-004	-7.45e-004	-1.56e-005
442	-3.38e-002	-2.53e-003	-2.34e-001	+1.05e-003	-7.44e-004	+5.31e-006
443	-3.59e-002	-2.52e-003	-1.88e-001	+1.13e-003	-7.43e-004	+8.59e-005
444	-4.23e-002	-2.50e-003	-1.49e-001	+6.35e-004	-7.42e-004	+2.11e-004
445	-6.45e-002	-2.52e-003	-2.06e-001	-2.06e-003	-6.94e-004	+3.16e-004
446	-7.77e-002	-2.55e-003	-3.01e-001	-2.45e-003	-6.47e-004	+3.75e-004
447	-9.23e-002	-2.59e-003	-3.96e-001	-2.15e-003	-6.00e-004	+3.65e-004
448	-1.05e-001	-2.64e-003	-4.69e-001	-1.37e-003	-5.53e-004	+2.55e-004
449	-1.11e-001	-2.68e-003	-5.03e-001	-2.75e-004	-5.06e-004	+7.18e-005
450	-1.10e-001	-2.72e-003	-4.90e-001	+9.40e-004	-4.59e-004	-1.46e-004
451	-1.00e-001	-2.77e-003	-4.28e-001	+2.10e-003	-4.12e-004	-3.60e-004
452	-8.25e-002	-2.82e-003	-3.24e-001	+3.01e-003	-3.65e-004	-5.49e-004
453	-5.74e-002	-2.86e-003	-1.91e-001	+3.46e-003	-3.18e-004	-7.76e-004
454	-4.99e-002	+1.97e-004	-1.68e-001	-3.32e-003	-9.98e-004	+7.03e-004
455	-7.10e-002	+1.39e-004	-2.92e-001	-2.74e-003	-1.11e-003	+4.10e-004
456	-8.26e-002	+1.16e-004	-3.84e-001	-1.74e-003	-1.21e-003	+1.90e-004
457	-8.55e-002	+1.19e-004	-4.30e-001	-5.39e-004	-1.30e-003	-3.39e-005
458	-7.96e-002	+1.35e-004	-4.27e-001	+6.88e-004	-1.40e-003	-2.51e-004
459	-6.58e-002	+1.51e-004	-3.76e-001	+1.77e-003	-1.48e-003	-4.25e-004
460	-4.67e-002	+1.53e-004	-2.88e-001	+2.52e-003	-1.55e-003	-5.12e-004
461	-2.67e-002	+1.32e-004	-1.79e-001	+2.79e-003	-1.61e-003	-4.71e-004
462	-1.09e-002	+7.95e-005	-7.18e-002	+2.36e-003	-1.64e-003	-3.22e-004
463	+1.68e-002	-5.24e-005	+1.27e-003	-5.22e-004	-1.75e-003	-3.66e-004
464	+2.79e-002	-7.90e-005	-3.33e-002	-1.03e-003	-1.83e-003	-1.77e-004
465	+3.23e-002	-7.73e-005	-7.59e-002	-9.83e-004	-1.88e-003	-5.28e-005
466	+3.34e-002	-5.30e-005	-1.09e-001	-5.85e-004	-1.91e-003	-7.16e-006
467	+3.36e-002	-1.58e-005	-1.21e-001	-8.71e-006	-1.92e-003	-5.08e-007
468	+3.35e-002	+2.27e-005	-1.09e-001	+5.69e-004	-1.90e-003	+5.80e-006
469	+3.25e-002	+5.10e-005	-7.72e-002	+9.73e-004	-1.87e-003	+5.06e-005
470	+2.82e-002	+5.93e-005	-3.48e-002	+1.03e-003	-1.81e-003	+1.75e-004
471	+1.71e-002	+4.16e-005	+1.31e-004	+5.40e-004	-1.74e-003	+3.69e-004
472	-1.08e-002	-6.20e-005	-7.01e-002	-2.32e-003	-1.61e-003	+3.07e-004
473	-2.57e-002	-9.45e-005	-1.76e-001	-2.74e-003	-1.56e-003	+4.44e-004
474	-4.44e-002	-9.41e-005	-2.83e-001	-2.46e-003	-1.48e-003	+4.78e-004
475	-6.20e-002	-6.69e-005	-3.68e-001	-1.69e-003	-1.39e-003	+3.87e-004
476	-7.42e-002	-2.35e-005	-4.15e-001	-6.01e-004	-1.29e-003	+2.10e-004
477	-7.84e-002	+2.30e-005	-4.15e-001	+6.36e-004	-1.17e-003	-9.88e-006
478	-7.36e-002	+5.91e-005	-3.64e-001	+1.85e-003	-1.05e-003	-2.35e-004
479	-6.01e-002	+7.15e-005	-2.69e-001	+2.85e-003	-9.12e-004	-4.59e-004
480	-3.72e-002	+5.13e-005	-1.40e-001	+3.43e-003	-7.57e-004	-7.37e-004
481	+5.03e-002	-2.78e-003	-1.80e-001	-1.78e-003	-7.59e-004	-2.92e-004
482	+3.66e-002	-2.31e-002	-1.37e-001	-3.32e-003	-9.30e-004	+7.03e-004
483	-5.68e-002	-2.49e-002	-2.59e-001	-2.74e-003	-9.76e-004	+4.10e-004
484	-6.69e-002	-1.82e-002	-3.47e-001	-1.74e-003	-1.08e-003	+1.90e-004
485	-6.85e-002	-8.64e-003	-3.90e-001	-5.39e-004	-1.17e-003	-3.39e-005
486	-6.13e-002	+1.44e-003	-3.83e-001	+6.88e-004	-1.27e-003	-2.51e-004
487	-4.63e-002	+1.09e-002	-3.30e-001	+1.77e-003	-1.35e-003	-4.25e-004
488	-2.62e-002	+1.87e-002	-2.40e-001	+2.52e-003	-1.42e-003	-5.12e-004
489	-5.38e-002	+2.38e-002	-1.29e-001	+2.79e-003	-1.48e-003	-4.71e-004
490	+1.03e-002	+2.27e-002	-2.18e-002	+2.36e-003	-1.45e-003	-3.22e-004
491	+3.95e-002	-1.97e-002	+5.50e-002	-5.22e-004	-1.56e-003	-3.66e-004
492	+5.23e-002	-2.05e-002	+2.45e-002	-1.03e-003	-1.70e-003	-1.77e-004
493	+5.74e-002	-1.57e-002	-1.64e-002	-9.83e-004	-1.75e-003	-5.28e-005
494	+5.90e-002	-8.56e-003	-4.83e-002	-5.85e-004	-1.78e-003	-7.16e-006
495	+5.92e-002	-1.56e-004	-6.04e-002	-8.71e-006	-1.79e-003	-5.08e-007
496	+5.90e-002	+8.27e-003	-4.91e-002	+5.69e-004	-1.77e-003	+5.80e-006
497	+5.75e-002	+1.55e-002	-1.80e-002	+9.73e-004	-1.74e-003	+5.06e-005
498	+5.24e-002	+2.05e-002	+2.26e-002	+1.03e-003	-1.69e-003	+1.75e-004
499	+3.96e-002	+2.00e-002	+5.32e-002	+5.40e-004	-1.54e-003	+3.69e-004
500	+9.85e-003	-2.25e-002	-2.14e-002	-2.32e-003	-1.42e-003	+3.07e-004
501	-5.09e-003	-2.39e-002	-1.27e-001	-2.74e-003	-1.43e-003	+4.44e-004
502	-2.49e-002	-1.89e-002	-2.36e-001	-2.46e-003	-1.35e-003	+4.78e-004
503	-4.38e-002	-1.10e-002	-3.25e-001	-1.69e-003	-1.26e-003	+3.87e-004
504	-5.74e-002	-1.49e-003	-3.75e-001	-6.01e-004	-1.16e-003	+2.10e-004
505	-6.32e-002	+8.69e-003	-3.79e-001	+6.36e-004	-1.05e-003	-9.88e-006
506	-6.02e-002	+1.83e-002	-3.33e-001	+1.85e-003	-9.20e-004	-2.35e-004
507	-4.87e-002	+2.50e-002	-2.42e-001	+2.85e-003	-7.83e-004	-4.59e-004
508	-2.73e-002	+2.38e-002	-1.17e-001	+3.43e-003	-6.89e-004	-7.37e-004

### MASSIME DEFORMAZIONI NODALI

T	Trasl.X	Trasl.Y	Trasl.Z	Rotaz.X	Rotaz.Y	Rotaz.Z	DLMax
Deform. nodali	-1.21e-001	-2.19e-001	-5.23e-001	+3.46e-003	-1.92e-003	+1.35e-003	+5.36e-001
Nodo	430	12	431	453	467	11	431

## 17. STRUTTURA

Lavoro: **Calcolo struttura copertura capannone H** Intestazione lavoro: **Copertura L.L.**  
 Elemento: **TRAVE** Metodo di verifica: **Tensioni ammissibili**  
 Gruppo: **1** Descrizione: **Montanti**  
 Tabella: **Tabella travi**  
 Tipo legno: **Legno lamellare Qualità I**  
 Coefficienti di forma **abilitati**

**ASTA NUM. 1** NI 1 NF 5 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.2395 0.2395 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1669	319	178	0	0	5	3.2	0.3	0.9	0.0	3.4	3	
1	18	-1668	314	178	0	-32	62	3.2	5.3	0.9	0.0	7.4	1	
1	36	-1666	310	178	0	-64	119	3.2	10.3	0.9	0.0	11.3	1	

**ASTA NUM. 2** NI 3 NF 14 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.2395 0.2395 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1661	390	830	141	334	-266	3.2	35.3	2.4	5.9	30.9	1	
1	18	-1660	385	830	141	183	-196	3.2	21.9	2.4	5.9	20.4	1	
1	36	-1658	381	830	141	32	-126	3.2	8.6	2.4	5.9	10.0	2	

**ASTA NUM. 3** NI 14 NF 16 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1431	250	219	100	145	-128	2.8	15.9	0.7	4.2	15.3	1	
1	56	-1426	237	219	100	23	8	2.7	1.9	0.7	4.2	4.2	3	
1	112	-1420	223	219	100	-99	137	2.7	13.5	0.6	4.2	13.3	1	

**ASTA NUM. 4** NI 16 NF 17 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1091	-33	107	-5	50	140	2.1	10.5	0.3	0.2	10.4	1	
1	56	-1086	-47	107	-5	-9	118	2.1	6.7	0.3	0.2	7.4	1	
1	112	-1080	-60	107	-5	-68	88	2.1	9.0	0.3	0.2	9.1	1	

**ASTA NUM. 5** NI 17 NF 13 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-751	-320	294	-116	73	87	1.4	9.2	0.9	4.9	8.7	3	
1	56	-745	-333	294	-116	-91	-96	1.4	10.8	1.0	4.9	9.9	3	
1	112	-739	-347	294	-116	-254	-285	1.4	31.2	1.0	4.9	25.9	1	

**ASTA NUM. 6** NI 13 NF 19 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-757	402	-287	150	-246	-323	1.5	32.6	1.2	6.3	27.1	1	
1	56	-763	389	-287	150	-86	-102	1.5	10.9	1.1	6.3	10.0	3	
1	112	-768	375	-287	150	74	111	1.5	10.5	1.1	6.3	9.7	3	

**ASTA NUM. 7** NI 19 NF 18 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1096	141	-121	66	-68	113	2.1	10.2	0.4	2.8	10.2	1	
1	56	-1102	128	-121	66	-0	188	2.1	9.8	0.4	2.8	9.9	2	
1	112	-1107	115	-121	66	67	256	2.1	17.7	0.3	2.8	16.0	1	

**ASTA NUM. 8** NI 18 NF 15 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1383	-99	-119	16	-64	251	2.7	17.2	0.3	0.7	16.2	1	
1	56	-1389	-112	-119	16	3	193	2.7	10.2	0.3	0.7	10.7	1	
1	112	-1395	-125	-119	16	69	127	2.7	11.0	0.4	0.7	11.4	1	

**ASTA NUM. 9** NI 15 NF 11 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2395 0.2395 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1667	-311	-177	-0	-64	119	3.2	10.3	0.9	0.0	11.3	1	
1	18	-1669	-315	-177	-0	-32	62	3.2	5.3	0.9	0.0	7.4	1	
1	36	-1671	-320	-177	-0	0	5	3.2	0.3	0.9	0.0	3.4	3	

**ASTA NUM. 10** NI 24 NF 27 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2395 0.2395 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-459	214	0	0	-0	-72	0.9	3.8	0.6	0.0	3.8	1	
1	18	-461	209	0	0	-0	-33	0.9	1.8	0.6	0.0	2.3	1	
1	36	-463	205	0	0	-0	4	0.9	0.2	0.6	0.0	1.1	3	

**ASTA NUM. 11** NI 43 NF 46 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2395 0.2395 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-447	209	-0	-0	0	-70	0.9	3.7	0.6	0.0	3.7	1	
1	18	-449	204	-0	-0	0	-33	0.9	1.7	0.6	0.0	2.2	1	
1	36	-451	200	-0	-0	0	4	0.9	0.2	0.6	0.0	1.0	3	

**ASTA NUM. 12** NI 62 NF 65 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2395 0.2395 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-163	89	-0	0	-0	-26	0.3	1.4	0.3	0.0	1.4	1	
1	18	-165	85	-0	0	-0	-10	0.3	0.5	0.2	0.0	0.7	1	
1	36	-167	80	-0	0	-0	5	0.3	0.3	0.2	0.0	0.5	1	

**ASTA NUM. 13** NI 21 NF 24 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-3203	-500	7	-18	3	513	6.2	27.0	1.4	0.8	27.4	1	
1	56	-3209	-514	7	-18	-0	230	6.2	12.1	1.5	0.8	15.6	2	
1	112	-3214	-527	7	-18	-4	-60	6.2	3.4	1.5	0.8	8.8	1	

**ASTA NUM. 14** NI 40 NF 43 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-3255	-492	-28	19	-16	505	6.3	27.4	1.4	0.8	27.8	1	
1	56	-3261	-505	-28	19	-0	227	6.3	11.9	1.5	0.8	15.6	2	
1	112	-3266	-519	-28	19	15	-59	6.3	4.1	1.5	0.8	9.5	1	

**ASTA NUM. 15** NI 59 NF 62 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1318	-161	154	-18	67	182	2.5	13.7	0.5	0.8	13.3	1	
1	56	-1324	-175	154	-18	-19	88	2.5	5.8	0.5	0.8	7.1	1	
1	112	-1329	-188	154	-18	-105	-13	2.6	7.4	0.5	0.8	8.4	1	

**ASTA NUM. 16** NI 20 NF 21 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-2775	179	-4	-31	-7	324	5.3	17.3	0.5	1.3	19.0	1	
1	56	-2781	166	-4	-31	-5	420	5.3	22.2	0.5	1.3	22.8	1	
1	112	-2786	152	-4	-31	-2	509	5.4	26.7	0.4	1.3	26.3	1	

**ASTA NUM. 17** NI 39 NF 40 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-2824	184	4	30	5	311	5.4	16.6	0.5	1.2	18.4	1	
1	56	-2830	170	4	30	3	410	5.4	21.6	0.5	1.2	22.4	1	
1	112	-2835	157	4	30	0	501	5.5	26.2	0.5	1.2	26.0	2	

**ASTA NUM. 18** NI 58 NF 59 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1011	78	123	-68	69	114	1.9	10.3	0.4	2.9	10.1	1	
1	56	-1017	64	123	-68	-0	153	2.0	8.0	0.4	2.9	8.2	2	
1	112	-1023	51	123	-68	-69	185	2.0	14.1	0.4	2.9	13.0	1	

**ASTA NUM. 19** NI 26 NF 20 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-2479	901	75	-45	51	-664	4.8	37.9	2.6	1.9	34.5	1	
1	56	-2485	887	75	-45	9	-165	4.8	9.2	2.6	1.9	12.0	1	
1	112	-2490	874	75	-45	-33	326	4.8	19.2	2.5	1.9	19.9	1	

**ASTA NUM. 20** NI 45 NF 39 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-2528	904	-80	44	-54	-679	4.9	38.9	2.6	1.8	35.5	1	
1	56	-2534	891	-80	44	-10	-178	4.9	9.9	2.6	1.8	12.7	1	
1	112	-2539	878	-80	44	35	315	4.9	18.7	2.5	1.8	19.6	1	



**ASTA NUM. 21** NI 64 NF 58 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-661	339	292	-153	250	-254	1.3	29.2	1.0	6.4	24.3	1	
1	56	-666	325	292	-153	87	-68	1.3	9.1	0.9	6.4	8.5	3	
1	112	-672	312	292	-153	-76	110	1.3	10.6	0.9	6.4	9.6	2	

**ASTA NUM. 22** NI 22 NF 26 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-2482	-750	-85	22	-38	266	4.8	16.3	2.2	0.9	17.6	1	
1	56	-2476	-763	-85	22	10	-156	4.8	8.8	2.2	0.9	11.6	1	
1	112	-2470	-776	-85	22	58	-585	4.8	34.2	2.2	0.9	31.6	1	

**ASTA NUM. 23** NI 41 NF 45 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-2526	-793	83	-27	36	280	4.9	16.9	2.3	1.1	18.2	1	
1	56	-2521	-807	83	-27	-10	-166	4.8	9.3	2.3	1.1	12.2	1	
1	112	-2515	-820	83	-27	-57	-620	4.8	36.0	2.4	1.1	33.1	1	

**ASTA NUM. 24** NI 60 NF 64 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-652	-290	-300	115	-75	104	1.3	10.3	0.9	4.8	9.3	2	
1	56	-646	-303	-300	115	92	-61	1.2	9.1	0.9	4.8	8.4	3	
1	112	-641	-316	-300	115	260	-234	1.2	28.8	0.9	4.8	23.9	1	

**ASTA NUM. 25** NI 23 NF 22 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-2771	13	8	-1	-1	266	5.3	13.9	0.0	0.0	16.3	1		
1	56	-2766	-0	8	-1	-5	270	5.3	14.4	0.0	0.0	16.7	1		
1	112	-2760	-14	8	-1	-10	266	5.3	14.5	0.0	0.0	16.7	1		

**ASTA NUM. 26** NI 42 NF 41 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-2813	-35	-15	-2	-5	330	5.4	17.6	0.1	0.1	19.2	1		
1	56	-2808	-48	-15	-2	3	307	5.4	16.2	0.1	0.1	18.2	1		
1	112	-2802	-62	-15	-2	12	276	5.4	15.2	0.2	0.1	17.3	1		

**ASTA NUM. 27** NI 61 NF 60 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-1003	-2	-110	2	-53	124	1.9	9.9	0.3	0.1	9.7	1		
1	56	-997	-15	-110	2	8	119	1.9	6.7	0.3	0.1	7.2	1		
1	112	-992	-29	-110	2	70	107	1.9	10.0	0.3	0.1	9.8	1		

**ASTA NUM. 28** NI 25 NF 23 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-3189	779	-4	-29	-1	-585	6.1	30.6	2.2	1.2	30.2	1		
1	56	-3183	766	-4	-29	1	-154	6.1	8.1	2.2	1.2	12.5	2		
1	112	-3177	753	-4	-29	3	270	6.1	14.2	2.2	1.2	17.3	1		

**ASTA NUM. 29** NI 44 NF 42 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-3231	723	-2	25	-11	-458	6.2	24.6	2.1	1.0	25.6	1	
1	56	-3225	710	-2	25	-10	-59	6.2	3.7	2.0	1.0	9.1	1	
1	112	-3219	696	-2	25	-9	334	6.2	18.0	2.0	1.0	20.3	1	

**ASTA NUM. 30** NI 63 NF 61 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1354	286	-239	-110	-167	-183	2.6	20.3	0.8	4.6	18.5	1	
1	56	-1349	272	-239	-110	-34	-27	2.6	3.6	0.8	4.6	5.4	3	
1	112	-1343	259	-239	-110	99	121	2.6	12.7	0.7	4.6	12.5	1	

**ASTA NUM. 31** NI 55 NF 44 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2395 0.2395 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-3858	1140	537	54	145	-866	7.4	54.5	3.3	2.3	50.2	1	
1	18	-3857	1136	537	54	47	-659	7.4	37.4	3.3	2.3	36.8	1	
1	36	-3855	1132	537	54	-51	-453	7.4	26.9	3.3	2.3	28.5	1	

**ASTA NUM. 32** NI 74 NF 63 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2395 0.2395 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1542	429	-925	-159	-410	-340	3.0	44.0	2.7	6.7	37.5	1	
1	18	-1541	425	-925	-159	-242	-262	3.0	29.2	2.7	6.7	25.9	1	
1	36	-1539	420	-925	-159	-74	-185	3.0	14.4	2.7	6.7	14.3	2	

**ASTA NUM. 33** NI 34 NF 33 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-3218	529	-7	17	-4	-61	6.2	3.4	1.5	0.7	8.9	1	
1	56	-3212	516	-7	17	-0	231	6.2	12.1	1.5	0.7	15.7	2	
1	112	-3206	502	-7	17	3	515	6.2	27.1	1.4	0.7	27.4	1	

**ASTA NUM. 34** NI 38 NF 34 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2395 0.2395 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-463	-205	-0	-0	-0	4	0.9	0.2	0.6	0.0	1.1	3	
1	18	-462	-210	-0	-0	-0	-34	0.9	1.8	0.6	0.0	2.3	1	
1	36	-460	-214	-0	-0	-0	-72	0.9	3.8	0.6	0.0	3.8	1	

**ASTA NUM. 35** NI 5 NF 6 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1393	125	119	-16	69	126	2.7	11.0	0.4	0.7	11.3	1	
1	56	-1388	112	119	-16	3	192	2.7	10.2	0.3	0.7	10.7	1	
1	112	-1382	98	119	-16	-64	251	2.7	17.2	0.3	0.7	16.2	1	

**ASTA NUM. 36** NI 6 NF 7 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1107	-114	120	-65	67	256	2.1	17.6	0.3	2.7	16.0	1	
1	56	-1101	-128	120	-65	-0	188	2.1	9.8	0.4	2.7	9.8	2	
1	112	-1095	-141	120	-65	-67	113	2.1	10.2	0.4	2.7	10.1	1	

**ASTA NUM. 37** NI 7 NF 4 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-769	-375	286	-149	74	111	1.5	10.5	1.1	6.3	9.7	3	
1	56	-763	-388	286	-149	-86	-102	1.5	10.8	1.1	6.3	10.0	3	
1	112	-757	-402	286	-149	-245	-323	1.5	32.6	1.2	6.3	27.0	1	

**ASTA NUM. 38** NI 4 NF 10 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-740	346	-293	116	-254	-285	1.4	31.2	1.0	4.9	25.9	1	
1	56	-746	333	-293	116	-90	-95	1.4	10.8	1.0	4.9	9.9	3	
1	112	-752	320	-293	116	73	87	1.4	9.2	0.9	4.9	8.7	3	

**ASTA NUM. 39** NI 10 NF 9 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1082	60	-108	5	-69	88	2.1	9.0	0.3	0.2	9.2	1	
1	56	-1088	47	-108	5	-9	118	2.1	6.7	0.3	0.2	7.4	1	
1	112	-1093	33	-108	5	51	140	2.1	10.6	0.3	0.2	10.4	1	

**ASTA NUM. 40** NI 9 NF 8 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1422	-223	-219	-100	-98	137	2.7	13.4	0.6	4.2	13.3	1	
1	56	-1428	-237	-219	-100	24	8	2.7	2.0	0.7	4.2	4.3	3	
1	112	-1433	-250	-219	-100	146	-127	2.8	16.0	0.7	4.2	15.3	1	

**ASTA NUM. 41** NI 8 NF 3 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2395 0.2395 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1656	-381	-822	-141	35	-126	3.2	8.8	2.4	5.9	10.1	2	
1	18	-1658	-385	-822	-141	184	-196	3.2	22.0	2.4	5.9	20.5	1	
1	36	-1660	-390	-822	-141	334	-266	3.2	35.3	2.4	5.9	30.9	1	

**ASTA NUM. 42** NI 76 NF 72 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2395 0.2395 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-155	-76	0	-0	-0	5	0.3	0.3	0.2	0.0	0.5	1	
1	18	-153	-80	0	-0	-0	-9	0.3	0.5	0.2	0.0	0.7	1	
1	36	-152	-84	0	-0	-0	-24	0.3	1.3	0.2	0.0	1.3	1	

**ASTA NUM. 43** NI 57 NF 53 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2395 0.2395 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-437	-194	0	0	0	4	0.8	0.2	0.6	0.0	1.0	3	
1	18	-435	-199	0	0	0	-31	0.8	1.6	0.6	0.0	2.1	1	
1	36	-433	-203	0	0	0	-68	0.8	3.6	0.6	0.0	3.6	1	

**ASTA NUM. 44** NI 33 NF 32 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-2789	-153	4	29	-2	510	5.4	26.8	0.4	1.2	26.4	1	
1	56	-2784	-167	4	29	-5	420	5.4	22.2	0.5	1.2	22.8	1	
1	112	-2778	-180	4	29	-7	324	5.3	17.3	0.5	1.2	19.0	1	

**ASTA NUM. 45** NI 32 NF 35 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-2494	-876	-75	44	-34	327	4.8	19.2	2.5	1.8	19.9	1	
1	56	-2488	-889	-75	44	8	-166	4.8	9.2	2.6	1.8	12.0	1	
1	112	-2482	-902	-75	44	51	-665	4.8	38.0	2.6	1.8	34.6	1	

**ASTA NUM. 46** NI 35 NF 29 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-2473	778	85	-22	57	-587	4.8	34.3	2.2	0.9	31.7	1	
1	56	-2479	765	85	-22	10	-156	4.8	8.8	2.2	0.9	11.7	1	
1	112	-2484	751	85	-22	-37	267	4.8	16.3	2.2	0.9	17.6	1	

**ASTA NUM. 47** NI 29 NF 30 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-2762	15	-10	1	-10	267	5.3	14.6	0.0	0.0	16.8	1	
1	56	-2768	1	-10	1	-5	271	5.3	14.5	0.0	0.0	16.7	1	
1	112	-2773	-12	-10	1	0	268	5.3	14.0	0.0	0.0	16.3	1	

**ASTA NUM. 48** NI 30 NF 31 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-3179	-753	0	27	3	271	6.1	14.3	2.2	1.2	17.4	1	
1	56	-3185	-767	0	27	2	-152	6.1	8.1	2.2	1.2	12.5	1	
1	112	-3191	-780	0	27	2	-584	6.1	30.6	2.2	1.2	30.2	1	

**ASTA NUM. 49** NI 53 NF 52 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-3258	506	23	-13	13	-55	6.3	3.7	1.5	0.6	9.2	1		
1	56	-3252	492	23	-13	-0	223	6.3	11.7	1.4	0.6	15.4	2		
1	112	-3246	479	23	-13	-13	494	6.2	26.7	1.4	0.6	27.2	1		

**ASTA NUM. 50** NI 52 NF 51 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-2831	-154	-7	-20	-2	492	5.4	25.8	0.4	0.8	25.7	1		
1	56	-2825	-168	-7	-20	2	402	5.4	21.1	0.5	0.8	22.0	1		
1	112	-2819	-181	-7	-20	6	305	5.4	16.3	0.5	0.8	18.2	1		

**ASTA NUM. 51** NI 51 NF 54 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-2538	-873	72	-37	31	308	4.9	18.1	2.5	1.6	19.1	1		
1	56	-2532	-886	72	-37	-8	-182	4.9	10.1	2.6	1.6	12.8	1		
1	112	-2526	-900	72	-37	-48	-681	4.9	38.6	2.6	1.6	35.2	1		

**ASTA NUM. 52** NI 54 NF 48 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-2518	827	-76	25	-51	-631	4.8	36.2	2.4	1.1	33.3	1		
1	56	-2524	813	-76	25	-9	-173	4.9	9.6	2.3	1.1	12.4	1		
1	112	-2530	800	-76	25	34	277	4.9	16.6	2.3	1.1	17.9	1		



**ASTA NUM. 53** NI 48 NF 49 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-2807	69	15	-1	11	273	5.4	15.0	0.2	0.0	17.1	1	
1	56	-2813	56	15	-1	3	308	5.4	16.2	0.2	0.0	18.2	1	
1	112	-2818	43	15	-1	-6	335	5.4	17.9	0.1	0.0	19.5	1	

**ASTA NUM. 54** NI 49 NF 50 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-3227	-686	-7	-31	-11	338	6.2	18.4	2.0	1.3	20.6	1	
1	56	-3233	-699	-7	-31	-7	-48	6.2	3.0	2.0	1.3	8.6	1	
1	112	-3238	-712	-7	-31	-3	-442	6.2	23.3	2.1	1.3	24.5	1	

**ASTA NUM. 55** NI 72 NF 71 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1325	175	-148	7	-102	-10	2.5	7.0	0.5	0.3	8.1	1	
1	56	-1320	162	-148	7	-19	84	2.5	5.6	0.5	0.3	6.9	1	
1	112	-1314	148	-148	7	64	170	2.5	13.0	0.4	0.3	12.7	1	

**ASTA NUM. 56** NI 71 NF 70 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1029	-47	-119	52	-66	176	2.0	13.4	0.3	2.2	12.5	1	
1	56	-1024	-60	-119	52	-0	146	2.0	7.6	0.3	2.2	8.0	2	
1	112	-1018	-74	-119	52	66	109	2.0	9.9	0.3	2.2	9.7	1	

**ASTA NUM. 57** NI 70 NF 73 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-692	-309	-280	141	-73	104	1.3	10.1	0.9	6.0	9.3	2	
1	56	-686	-323	-280	141	84	-72	1.3	9.1	0.9	6.0	8.5	3	
1	112	-680	-336	-280	141	240	-256	1.3	28.7	1.0	6.0	23.9	1	

**ASTA NUM. 58** NI 73 NF 67 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-669	327	291	-112	251	-244	1.3	28.8	0.9	4.7	23.9	1	
1	56	-674	313	291	-112	88	-65	1.3	9.1	0.9	4.7	8.4	3	
1	112	-680	300	291	-112	-74	106	1.3	10.3	0.9	4.7	9.4	2	

**ASTA NUM. 59** NI 67 NF 68 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1018	38	112	4	70	108	2.0	10.2	0.3	0.2	9.9	1	
1	56	-1024	25	112	4	8	126	2.0	7.1	0.3	0.2	7.5	1	
1	112	-1029	11	112	4	-55	136	2.0	10.6	0.3	0.2	10.3	1	

**ASTA NUM. 60** NI 68 NF 69 Lungh. 111.6 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.2396 0.2396 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1374	-251	251	122	99	133	2.6	13.3	0.7	5.1	13.1	1	
1	56	-1380	-264	251	122	-41	-11	2.7	3.2	0.8	5.1	5.2	3	
1	112	-1386	-278	251	122	-181	-162	2.7	20.1	0.8	5.1	18.4	1	

**ASTA NUM. 61** NI 25 NF 36 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 3.7609 3.7609 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-3810	-1189	-449	-71	-5	-590	7.3	31.1	3.4	3.0	31.7	2	
1	18	-3839	-1257	-449	-71	77	-812	7.4	47.3	3.6	3.0	44.6	1	
1	36	-3868	-1325	-449	-71	159	-1047	7.4	64.8	3.8	3.0	58.4	1	

**ASTA NUM. 62** NI 36 NF 31 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 3.7609 3.7609 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-3870	1329	484	64	162	-1047	7.4	65.0	3.8	2.7	58.5	1	
1	18	-3841	1261	484	64	74	-811	7.4	47.1	3.6	2.7	44.4	1	
1	36	-3812	1192	484	64	-14	-588	7.3	31.6	3.4	2.7	32.2	1	

**ASTA NUM. 63** NI 55 NF 50 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 3.7609 3.7609 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-3922	1251	-484	-66	-140	-867	7.5	54.2	3.6	2.8	50.1	1	
1	18	-3894	1183	-484	-66	-51	-646	7.5	37.0	3.4	2.8	36.6	1	
1	36	-3865	1114	-484	-66	37	-437	7.4	25.2	3.2	2.8	27.2	1	

**ASTA NUM. 64** NI 74 NF 69 Lungh. 36.4 cm SEZ. 3 Rp B= 20.0 H= 26.0 cm

categoria: p.p. y qy tot.  
qy medio: 3.7609 3.7609 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1603	553	828	183	400	-340	3.1	43.4	2.4	7.7	37.2	1	
1	18	-1574	484	828	183	250	-246	3.0	28.8	2.4	7.7	25.7	1	
1	36	-1545	416	828	183	99	-164	3.0	14.9	2.4	7.7	14.7	2	

Lavoro: **Calcolo struttura copertura capannone H** Intestazione lavoro: **Copertura L.L.**  
 Elemento: **TRAVE** Metodo di verifica: **Tensioni ammissibili**  
 Gruppo: **2** Descrizione: **Travi secondarie**  
 Tabella: **Tabella travi**  
 Tipo legno: **Legno lamellare Qualità I**  
 Coefficienti di forma **abilitati**

**ASTA NUM. 1** NI 5 NF 77 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-59	278	-179	-7	-116	-67	0.2	29.8	1.6	0.9	23.7	1	
1	20	-59	275	-179	-7	-81	-12	0.2	15.0	1.6	0.9	12.0	1	
1	40	-59	273	-179	-7	-45	43	0.2	14.3	1.6	0.9	11.5	1	

**ASTA NUM. 2** NI 77 NF 78 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-39	201	-79	-9	-56	39	0.2	15.3	1.2	1.0	12.2	1	
1	20	-39	198	-79	-9	-40	79	0.2	19.3	1.2	1.0	15.3	1	
1	40	-39	196	-79	-9	-24	118	0.2	23.1	1.1	1.0	18.3	1	

**ASTA NUM. 3** NI 78 NF 79 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-16	116	-29	-8	-36	113	0.1	24.3	0.7	1.0	19.1	1	
1	20	-16	113	-29	-8	-30	136	0.1	27.1	0.7	1.0	21.3	1	
1	40	-16	110	-29	-8	-24	159	0.1	29.8	0.6	1.0	23.4	1	

**ASTA NUM. 4** NI 79 NF 80 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	45	-14	-8	-33	155	0.0	30.7	0.3	0.9	23.0	1	
1	20	0	43	-14	-8	-30	164	0.0	31.7	0.2	0.9	23.7	1	
1	40	0	40	-14	-8	-28	172	0.0	32.6	0.2	0.9	24.4	1	

**ASTA NUM. 5** NI 80 NF 81 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	9	-19	-14	-7	-32	171	0.0	33.1	0.1	0.9	24.8	1	
1	20	9	-22	-14	-7	-29	167	0.0	32.0	0.1	0.9	24.0	1	
1	40	9	-24	-14	-7	-27	163	0.0	30.8	0.1	0.9	23.1	1	

**ASTA NUM. 6** NI 81 NF 82 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	-82	-17	-7	-27	163	0.0	30.9	0.5	0.8	23.2	1	
1	20	8	-85	-17	-7	-23	146	0.0	27.6	0.5	0.8	20.8	1	
1	40	8	-87	-17	-7	-20	129	0.0	24.3	0.5	0.8	18.3	1	

**ASTA NUM. 7** NI 82 NF 83 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	-144	-22	-6	-16	132	0.0	24.0	0.8	0.7	18.9	1	
1	20	-0	-147	-22	-6	-11	103	0.0	18.6	0.9	0.7	14.6	1	
1	40	-0	-150	-22	-6	-7	73	0.0	13.0	0.9	0.7	10.2	1	

**ASTA NUM. 8** NI 83 NF 84 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-16	-208	-26	-5	1	77	0.1	12.6	1.2	0.5	10.0	1	
1	20	-16	-210	-26	-5	6	35	0.1	6.7	1.2	0.5	5.3	1	
1	40	-16	-213	-26	-5	11	-7	0.1	3.0	1.2	0.5	2.4	3	

**ASTA NUM. 9** NI 84 NF 85 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-35	-285	2	-3	21	-3	0.1	3.9	1.7	0.3	3.2	3	
1	20	-35	-287	2	-3	21	-60	0.1	13.1	1.7	0.3	10.5	1	
1	40	-35	-290	2	-3	21	-118	0.1	22.5	1.7	0.3	17.8	1	

**ASTA NUM. 10** NI 85 NF 34 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-53	-447	160	2	30	-113	0.2	23.3	2.6	0.2	18.5	1	
1	20	-53	-449	160	2	-2	-203	0.2	33.4	2.6	0.2	26.4	1	
1	40	-53	-452	160	2	-34	-293	0.2	53.2	2.6	0.2	42.0	1	

**ASTA NUM. 11** NI 34 NF 86 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-33	405	-174	-10	-37	-276	0.1	50.9	2.4	1.2	40.1	1	
1	20	-33	402	-174	-10	-2	-195	0.1	32.1	2.4	1.2	25.3	1	
1	40	-33	400	-174	-10	32	-115	0.1	24.0	2.3	1.2	18.9	1	

**ASTA NUM. 12** NI 86 NF 87 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-17	241	-13	-5	24	-118	0.1	23.1	1.4	0.6	18.2	1	
1	20	-17	239	-13	-5	26	-70	0.1	15.7	1.4	0.6	12.4	1	
1	40	-17	236	-13	-5	29	-23	0.1	8.4	1.4	0.6	6.7	1	

ASTA NUM. 13 NI 87 NF 88 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.

qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m					kg/cmq			
1	0	1	165	12	-4	19	-26	0.0	7.5	1.0	0.4	5.6	1	
1	20	1	163	12	-4	17	6	0.0	3.8	1.0	0.4	2.9	1	
1	40	1	160	12	-4	15	39	0.0	8.6	0.9	0.4	6.5	1	

ASTA NUM. 14 NI 88 NF 89 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.

qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m					kg/cmq			
1	0	16	102	6	-2	7	36	0.1	6.9	0.6	0.2	5.3	1	
1	20	16	100	6	-2	6	56	0.1	10.0	0.6	0.2	7.6	1	
1	40	16	97	6	-2	4	75	0.1	13.0	0.6	0.2	9.8	1	

ASTA NUM. 15 NI 89 NF 90 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.

qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m					kg/cmq			
1	0	24	39	2	-0	0	74	0.1	12.0	0.2	0.0	9.1	1	
1	20	24	36	2	-0	-0	81	0.1	13.2	0.2	0.0	10.0	1	
1	40	24	34	2	-0	-0	88	0.1	14.4	0.2	0.0	10.9	1	

ASTA NUM. 16 NI 90 NF 91 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.

qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m					kg/cmq			
1	0	25	-25	-1	1	-1	88	0.1	14.4	0.1	0.2	10.9	1	
1	20	25	-28	-1	1	-1	83	0.1	13.6	0.2	0.2	10.3	1	
1	40	25	-30	-1	1	-0	77	0.1	12.6	0.2	0.2	9.5	1	

**ASTA NUM. 17** NI 91 NF 92 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	18	-88	-6	3	3	78	0.1	13.2	0.5	0.4	10.0	1	
1	20	18	-91	-6	3	4	60	0.1	10.5	0.5	0.4	7.9	1	
1	40	18	-93	-6	3	5	42	0.1	7.7	0.5	0.4	5.8	1	

**ASTA NUM. 18** NI 92 NF 93 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	5	-151	-12	5	12	44	0.0	9.2	0.9	0.5	6.9	1	
1	20	5	-153	-12	5	14	14	0.0	4.6	0.9	0.5	3.5	1	
1	40	5	-156	-12	5	17	-17	0.0	5.5	0.9	0.5	4.1	1	

**ASTA NUM. 19** NI 93 NF 94 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-12	-227	12	6	26	-13	0.0	6.4	1.3	0.7	5.0	1	
1	20	-12	-229	12	6	23	-59	0.0	13.4	1.3	0.7	10.6	1	
1	40	-12	-232	12	6	21	-105	0.0	20.5	1.4	0.7	16.1	1	

**ASTA NUM. 20** NI 94 NF 53 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-27	-389	171	11	29	-102	0.1	21.3	2.3	1.3	16.8	1	
1	20	-27	-391	171	11	-5	-180	0.1	30.1	2.3	1.3	23.7	1	
1	40	-27	-394	171	11	-39	-258	0.1	48.4	2.3	1.3	38.2	1	



**ASTA NUM. 21** NI 53 NF 95 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-38	437	-176	-2	-45	-276	0.1	52.3	2.6	0.2	41.2	1	
1	20	-38	434	-176	-2	-10	-189	0.1	32.4	2.5	0.2	25.6	1	
1	40	-38	432	-176	-2	25	-102	0.1	20.6	2.5	0.2	16.4	1	

**ASTA NUM. 22** NI 95 NF 96 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-20	272	-12	3	15	-106	0.1	19.8	1.6	0.3	15.6	1	
1	20	-20	270	-12	3	18	-52	0.1	11.4	1.6	0.3	9.0	1	
1	40	-20	267	-12	3	20	1	0.1	3.5	1.6	0.3	2.8	3	

**ASTA NUM. 23** NI 96 NF 97 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	194	18	5	9	-3	0.0	2.1	1.1	0.5	1.6	3	
1	20	1	191	18	5	6	35	0.0	6.7	1.1	0.5	5.0	1	
1	40	1	189	18	5	2	73	0.0	12.3	1.1	0.5	9.2	1	

**ASTA NUM. 24** NI 97 NF 98 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	17	130	14	7	-6	69	0.1	12.3	0.8	0.8	9.3	1	
1	20	17	128	14	7	-9	95	0.1	16.9	0.7	0.8	12.7	1	
1	40	17	125	14	7	-11	120	0.1	21.5	0.7	0.8	16.2	1	

**ASTA NUM. 25** NI 98 NF 99 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	27	67	9	8	-16	118	0.1	21.8	0.4	1.0	16.5	1	
1	20	27	64	9	8	-18	131	0.1	24.2	0.4	1.0	18.3	1	
1	40	27	62	9	8	-20	144	0.1	26.6	0.4	1.0	20.0	1	

**ASTA NUM. 26** NI 101 NF 102 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	7	-85	33	12	-19	140	0.0	25.8	0.5	1.4	19.4	1	
1	20	7	-87	33	12	-25	123	0.0	24.1	0.5	1.4	18.1	1	
1	40	7	-90	33	12	-32	105	0.0	22.3	0.5	1.4	16.7	1	

**ASTA NUM. 27** NI 102 NF 103 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-13	-166	71	14	-21	109	0.0	21.2	1.0	1.6	16.7	1	
1	20	-13	-169	71	14	-36	75	0.0	18.0	1.0	1.6	14.2	1	
1	40	-13	-171	71	14	-50	41	0.0	14.8	1.0	1.6	11.7	1	

**ASTA NUM. 28** NI 103 NF 72 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-32	-226	127	14	-40	45	0.1	13.8	1.3	1.6	11.0	1	
1	20	-32	-229	127	14	-65	-0	0.1	10.7	1.3	1.6	8.5	3	
1	40	-32	-231	127	14	-91	-46	0.1	22.3	1.4	1.6	17.7	1	

**ASTA NUM. 29** NI 6 NF 131 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	2	303	-171	-5	-101	-96	0.0	32.1	1.8	0.5	24.1	1	
1	20	2	300	-171	-5	-67	-35	0.0	16.7	1.8	0.5	12.5	1	
1	40	2	298	-171	-5	-33	24	0.0	9.3	1.7	0.5	7.0	1	

**ASTA NUM. 30** NI 131 NF 132 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	233	-100	-5	-54	15	0.0	11.1	1.4	0.5	8.4	1	
1	20	1	231	-100	-5	-34	61	0.0	15.4	1.4	0.5	11.6	1	
1	40	1	228	-100	-5	-14	107	0.0	19.7	1.3	0.5	14.7	1	

**ASTA NUM. 31** NI 132 NF 133 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	142	-45	-5	-36	97	0.0	21.6	0.8	0.5	16.2	1	
1	20	1	140	-45	-5	-27	125	0.0	24.8	0.8	0.5	18.6	1	
1	40	1	137	-45	-5	-18	153	0.0	27.8	0.8	0.5	20.9	1	

**ASTA NUM. 32** NI 133 NF 134 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	66	-25	-5	-35	145	0.0	29.3	0.4	0.5	23.0	1	
1	20	-0	64	-25	-5	-30	158	0.0	30.6	0.4	0.5	24.0	1	
1	40	-0	61	-25	-5	-25	171	0.0	31.8	0.4	0.5	25.0	1	

**ASTA NUM. 33** NI 134 NF 135 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	-5	-16	-5	-33	167	0.0	32.5	0.1	0.5	25.5	1	
1	20	-0	-8	-16	-5	-30	165	0.0	31.8	0.1	0.5	25.0	1	
1	40	-0	-11	-16	-5	-27	164	0.0	31.0	0.1	0.5	24.3	1	

**ASTA NUM. 34** NI 135 NF 136 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	-77	-7	-5	-26	163	0.0	30.8	0.4	0.5	24.2	1	
1	20	-0	-79	-7	-5	-25	148	0.0	28.1	0.5	0.5	22.1	1	
1	40	-0	-82	-7	-5	-23	132	0.0	25.2	0.5	0.5	19.8	1	

**ASTA NUM. 35** NI 136 NF 137 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	-147	-0	-5	-14	135	0.0	24.3	0.9	0.5	19.1	1	
1	20	-0	-149	-0	-5	-14	106	0.0	19.5	0.9	0.5	15.3	1	
1	40	-0	-152	-0	-5	-14	75	0.0	14.6	0.9	0.5	11.4	1	

**ASTA NUM. 36** NI 137 NF 138 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	-218	9	-5	2	82	0.0	13.6	1.3	0.5	10.7	1	
1	20	-0	-220	9	-5	0	38	0.0	6.2	1.3	0.5	4.9	2	
1	40	-0	-223	9	-5	-2	-6	0.0	1.3	1.3	0.5	1.0	3	

**ASTA NUM. 37** NI 138 NF 139 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	-295	35	-5	18	2	0.0	3.2	1.7	0.5	2.4	3	
1	20	1	-298	35	-5	11	-57	0.0	11.1	1.7	0.5	8.3	1	
1	40	1	-300	35	-5	4	-117	0.0	19.6	1.8	0.5	14.7	1	

**ASTA NUM. 38** NI 139 NF 33 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	4	-400	61	-5	20	-110	0.0	21.2	2.3	0.5	15.9	1	
1	20	4	-402	61	-5	8	-190	0.0	32.3	2.4	0.5	24.2	1	
1	40	4	-405	61	-5	-4	-271	0.0	44.8	2.4	0.5	33.6	1	

**ASTA NUM. 39** NI 33 NF 140 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	14	361	-69	0	-4	-258	0.1	42.5	2.1	0.0	31.9	1	
1	20	14	358	-69	0	10	-186	0.1	31.9	2.1	0.0	23.9	1	
1	40	14	356	-69	0	24	-114	0.1	22.5	2.1	0.0	16.9	1	

**ASTA NUM. 40** NI 140 NF 141 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	11	255	-41	0	9	-120	0.0	21.0	1.5	0.0	15.8	1	
1	20	11	253	-41	0	17	-69	0.0	14.0	1.5	0.0	10.6	1	
1	40	11	250	-41	0	25	-19	0.0	7.2	1.5	0.0	5.4	1	

**ASTA NUM. 41** NI 141 NF 142 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	9	180	-19	0	7	-26	0.0	5.4	1.1	0.0	4.1	1	
1	20	9	177	-19	0	11	9	0.0	3.3	1.0	0.0	2.5	1	
1	40	9	175	-19	0	15	45	0.0	9.6	1.0	0.0	7.3	1	

**ASTA NUM. 42** NI 142 NF 143 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	9	110	-12	0	0	39	0.0	6.3	0.6	0.0	4.8	1	
1	20	9	108	-12	0	2	60	0.0	10.2	0.6	0.0	7.7	1	
1	40	9	105	-12	0	5	82	0.0	14.1	0.6	0.0	10.6	1	

**ASTA NUM. 43** NI 143 NF 144 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	41	-5	0	-4	78	0.0	13.3	0.2	0.0	10.0	1	
1	20	8	38	-5	0	-3	86	0.0	14.5	0.2	0.0	10.9	1	
1	40	8	36	-5	0	-2	94	0.0	15.5	0.2	0.0	11.7	1	

**ASTA NUM. 44** NI 144 NF 145 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	-29	3	0	-2	94	0.0	15.6	0.2	0.0	11.7	1	
1	20	8	-32	3	0	-3	87	0.0	14.7	0.2	0.0	11.1	1	
1	40	8	-34	3	0	-4	81	0.0	13.7	0.2	0.0	10.3	1	

**ASTA NUM. 45** NI 145 NF 146 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	-99	10	0	3	84	0.0	14.2	0.6	0.0	10.7	1	
1	20	8	-101	10	0	1	64	0.0	10.6	0.6	0.0	8.0	1	
1	40	8	-104	10	0	-1	43	0.0	7.1	0.6	0.0	5.4	1	

**ASTA NUM. 46** NI 146 NF 147 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	-168	17	0	13	49	0.0	10.0	1.0	0.0	7.5	1	
1	20	8	-171	17	0	9	15	0.0	3.9	1.0	0.0	3.0	1	
1	40	8	-174	17	0	6	-20	0.0	4.1	1.0	0.0	3.1	1	

**ASTA NUM. 47** NI 147 NF 148 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	9	-244	39	0	23	-13	0.0	5.8	1.4	0.0	4.4	1	
1	20	9	-246	39	0	15	-62	0.0	12.5	1.4	0.0	9.4	1	
1	40	9	-249	39	0	7	-111	0.0	19.3	1.5	0.0	14.5	1	

**ASTA NUM. 48** NI 148 NF 52 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	11	-349	65	0	22	-105	0.0	20.7	2.0	0.0	15.6	1	
1	20	11	-351	65	0	9	-175	0.0	30.0	2.1	0.0	22.5	1	
1	40	11	-354	65	0	-4	-246	0.0	40.7	2.1	0.0	30.6	1	

**ASTA NUM. 49** NI 52 NF 149 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-19	391	-72	3	-13	-257	0.1	43.8	2.3	0.3	34.5	1	
1	20	-19	389	-72	3	2	-178	0.1	29.3	2.3	0.3	23.1	1	
1	40	-19	386	-72	3	16	-101	0.1	19.1	2.3	0.3	15.1	1	

**ASTA NUM. 50** NI 149 NF 150 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-23	286	-43	3	-1	-108	0.1	17.7	1.7	0.3	14.0	1	
1	20	-23	283	-43	3	8	-51	0.1	9.6	1.7	0.3	7.6	1	
1	40	-23	280	-43	3	17	5	0.1	3.5	1.6	0.3	2.9	3	

**ASTA NUM. 51** NI 150 NF 151 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-25	208	-16	3	-3	-3	0.1	1.0	1.2	0.3	0.9	3	
1	20	-25	205	-16	3	-0	38	0.1	6.3	1.2	0.3	5.1	1	
1	40	-25	203	-16	3	3	79	0.1	13.4	1.2	0.3	10.6	1	

**ASTA NUM. 52** NI 151 NF 152 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-26	137	-6	3	-14	73	0.1	14.1	0.8	0.3	11.1	1	
1	20	-26	135	-6	3	-12	100	0.1	18.3	0.8	0.3	14.5	1	
1	40	-26	132	-6	3	-11	127	0.1	22.4	0.8	0.3	17.7	1	



**ASTA NUM. 53** NI 152 NF 153 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-27	68	1	3	-21	123	0.1	23.4	0.4	0.3	18.5	1	
1	20	-27	65	1	3	-21	137	0.1	25.6	0.4	0.3	20.2	1	
1	40	-27	63	1	3	-21	149	0.1	27.8	0.4	0.3	21.9	1	

**ASTA NUM. 54** NI 153 NF 154 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-27	-3	11	3	-23	149	0.1	28.0	0.1	0.3	22.1	1	
1	20	-27	-5	11	3	-25	148	0.1	28.2	0.1	0.3	22.3	1	
1	40	-27	-8	11	3	-27	147	0.1	28.4	0.1	0.3	22.4	1	

**ASTA NUM. 55** NI 154 NF 155 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-28	-45	22	5	-20	151	0.1	27.8	0.3	0.6	22.0	1	
1	20	-28	-48	22	5	-25	141	0.1	27.0	0.3	0.6	21.3	1	
1	40	-28	-50	22	5	-29	132	0.1	26.1	0.3	0.6	20.6	1	

**ASTA NUM. 56** NI 155 NF 156 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-29	-119	40	5	-14	138	0.1	24.8	0.7	0.6	19.6	1	
1	20	-29	-122	40	5	-22	114	0.1	22.2	0.7	0.6	17.6	1	
1	40	-29	-124	40	5	-30	90	0.1	19.5	0.7	0.6	15.5	1	

**ASTA NUM. 57** NI 156 NF 157 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-29	-208	94	5	-10	99	0.1	17.7	1.2	0.6	14.0	1	
1	20	-29	-211	94	5	-29	57	0.1	13.9	1.2	0.6	11.1	1	
1	40	-29	-214	94	5	-48	15	0.1	10.1	1.3	0.6	8.1	1	

**ASTA NUM. 58** NI 157 NF 71 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-30	-285	187	5	-28	23	0.1	8.4	1.7	0.6	6.7	1	
1	20	-30	-288	187	5	-65	-34	0.1	16.1	1.7	0.6	12.8	1	
1	40	-30	-290	187	5	-103	-92	0.1	31.6	1.7	0.6	25.0	1	

**ASTA NUM. 59** NI 7 NF 158 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	165	342	-210	3	-97	-132	0.6	37.4	2.0	0.3	28.7	1	
1	20	165	340	-210	3	-55	-64	0.6	19.4	2.0	0.3	15.2	1	
1	40	165	337	-210	3	-13	4	0.6	2.8	2.0	0.3	2.7	3	

**ASTA NUM. 60** NI 158 NF 159 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	160	237	-55	3	-30	-6	0.6	6.0	1.4	0.3	5.1	1	
1	20	160	234	-55	3	-19	41	0.6	9.8	1.4	0.3	8.0	1	
1	40	160	232	-55	3	-8	87	0.6	15.6	1.4	0.3	12.3	1	

**ASTA NUM. 61** NI 159 NF 160 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	154	152	-24	3	-27	77	0.6	16.9	0.9	0.3	13.3	1	
1	20	154	149	-24	3	-22	108	0.6	21.1	0.9	0.3	16.4	1	
1	40	154	147	-24	3	-17	137	0.6	25.1	0.9	0.3	19.4	1	

**ASTA NUM. 62** NI 160 NF 161 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	149	78	-20	3	-31	130	0.6	26.1	0.5	0.3	20.2	1	
1	20	149	76	-20	3	-27	145	0.6	28.0	0.4	0.3	21.6	1	
1	40	149	73	-20	3	-23	160	0.6	29.8	0.4	0.3	22.9	1	

**ASTA NUM. 63** NI 161 NF 162 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	145	3	-11	3	-29	157	0.6	30.3	0.1	0.3	23.3	1	
1	20	145	0	-11	3	-27	157	0.6	30.0	0.1	0.3	23.0	1	
1	40	145	-2	-11	3	-25	157	0.6	29.6	0.1	0.3	22.7	1	

**ASTA NUM. 64** NI 162 NF 163 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	142	-73	0	3	-23	158	0.6	29.4	0.4	0.3	22.6	1	
1	20	142	-76	0	3	-23	143	0.6	27.0	0.4	0.3	20.8	1	
1	40	142	-79	0	3	-23	128	0.6	24.5	0.5	0.3	18.9	1	

**ASTA NUM. 65** NI 163 NF 164 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	139	-149	10	3	-12	133	0.5	23.6	0.9	0.3	18.3	1	
1	20	139	-152	10	3	-14	103	0.5	19.0	0.9	0.3	14.8	1	
1	40	139	-154	10	3	-16	72	0.5	14.4	0.9	0.3	11.3	1	

**ASTA NUM. 66** NI 164 NF 165 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	137	-224	16	3	-0	80	0.5	13.1	1.3	0.3	10.3	1	
1	20	137	-226	16	3	-3	35	0.5	6.3	1.3	0.3	5.2	1	
1	40	137	-229	16	3	-7	-10	0.5	2.8	1.3	0.3	2.6	1	

**ASTA NUM. 67** NI 165 NF 166 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	136	-296	19	3	12	-1	0.5	2.1	1.7	0.3	2.1	3	
1	20	136	-299	19	3	8	-60	0.5	11.2	1.8	0.3	8.9	1	
1	40	136	-302	19	3	4	-120	0.5	20.3	1.8	0.3	15.8	1	

**ASTA NUM. 68** NI 166 NF 32 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	136	-401	21	3	19	-113	0.5	21.5	2.3	0.3	16.6	1	
1	20	136	-403	21	3	15	-193	0.5	33.9	2.4	0.3	25.9	1	
1	40	136	-406	21	3	11	-274	0.5	46.4	2.4	0.3	35.3	1	

**ASTA NUM. 69** NI 32 NF 167 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	57	346	29	-0	30	-250	0.2	45.6	2.0	0.0	34.4	1	
1	20	57	343	29	-0	24	-181	0.2	33.5	2.0	0.0	25.3	1	
1	40	57	341	29	-0	18	-113	0.2	21.4	2.0	0.0	16.3	1	

**ASTA NUM. 70** NI 167 NF 168 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	54	262	-18	-0	7	-119	0.2	20.4	1.5	0.0	15.5	1	
1	20	54	260	-18	-0	10	-66	0.2	12.5	1.5	0.0	9.6	1	
1	40	54	257	-18	-0	14	-15	0.2	4.6	1.5	0.0	3.7	1	

**ASTA NUM. 71** NI 168 NF 169 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	52	192	-23	-0	-2	-22	0.2	3.9	1.1	0.0	3.1	1	
1	20	52	190	-23	-0	3	16	0.2	3.1	1.1	0.0	2.5	1	
1	40	52	187	-23	-0	7	54	0.2	9.9	1.1	0.0	7.7	1	

**ASTA NUM. 72** NI 169 NF 170 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	51	118	-15	-0	-6	47	0.2	8.8	0.7	0.0	6.8	1	
1	20	51	115	-15	-0	-3	71	0.2	12.1	0.7	0.0	9.2	1	
1	40	51	112	-15	-0	-0	93	0.2	15.3	0.7	0.0	11.7	1	

ASTA NUM. 73 NI 170 NF 171 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	51	42	-6	-0	-8	90	0.2	16.0	0.2	0.0	12.2	1		
1	20	51	39	-6	-0	-7	98	0.2	17.1	0.2	0.0	13.0	1		
1	40	51	37	-6	-0	-6	106	0.2	18.2	0.2	0.0	13.8	1		

ASTA NUM. 74 NI 171 NF 172 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	51	-34	4	-0	-6	106	0.2	18.2	0.2	0.0	13.9	1		
1	20	51	-36	4	-0	-7	98	0.2	17.2	0.2	0.0	13.1	1		
1	40	51	-39	4	-0	-8	91	0.2	16.1	0.2	0.0	12.3	1		

ASTA NUM. 75 NI 172 NF 173 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	51	-110	13	-0	-1	94	0.2	15.5	0.6	0.0	11.8	1		
1	20	51	-112	13	-0	-4	72	0.2	12.3	0.7	0.0	9.4	1		
1	40	51	-115	13	-0	-6	49	0.2	9.1	0.7	0.0	7.0	1		

ASTA NUM. 76 NI 173 NF 174 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	51	-184	21	-0	7	56	0.2	10.1	1.1	0.0	7.8	1		
1	20	51	-187	21	-0	2	19	0.2	3.4	1.1	0.0	2.8	1		
1	40	51	-190	21	-0	-2	-19	0.2	3.4	1.1	0.0	2.7	1		

**ASTA NUM. 77** NI 174 NF 175 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	53	-254	17	-0	13	-12	0.2	4.1	1.5	0.0	3.3	1	
1	20	53	-257	17	-0	10	-63	0.2	11.9	1.5	0.0	9.1	1	
1	40	53	-260	17	-0	7	-115	0.2	19.8	1.5	0.0	15.0	1	

**ASTA NUM. 78** NI 175 NF 51 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	56	-340	-26	-0	18	-109	0.2	20.7	2.0	0.0	15.8	1	
1	20	56	-342	-26	-0	23	-177	0.2	32.7	2.0	0.0	24.7	1	
1	40	56	-345	-26	-0	28	-246	0.2	44.7	2.0	0.0	33.7	1	

**ASTA NUM. 79** NI 4 NF 184 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-579	-156	-10	1	-4	50	2.3	8.8	0.9	0.1	9.2	1	
1	20	-579	-159	-10	1	-2	18	2.3	3.4	0.9	0.1	4.9	1	
1	40	-579	-162	-10	1	-0	-14	2.3	2.3	0.9	0.1	4.0	1	

**ASTA NUM. 80** NI 184 NF 185 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-609	81	-1	1	-0	-14	2.4	2.4	0.5	0.1	4.3	1	
1	20	-609	78	-1	1	-0	1	2.4	0.3	0.5	0.1	2.6	1	
1	40	-609	76	-1	1	0	17	2.4	2.8	0.4	0.1	4.5	1	

**ASTA NUM. 81** NI 185 NF 186 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.

qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-639	122	-1	1	-0	15	2.5	2.5	0.7	0.1	4.4	1		
1	20	-639	120	-1	1	-0	39	2.5	6.4	0.7	0.1	7.5	1		
1	40	-639	117	-1	1	0	63	2.5	10.2	0.7	0.1	10.5	1		

**ASTA NUM. 82** NI 186 NF 187 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.

qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-662	80	-1	1	-0	61	2.6	9.9	0.5	0.1	10.4	1		
1	20	-662	78	-1	1	0	77	2.6	12.5	0.5	0.1	12.4	1		
1	40	-662	75	-1	1	0	92	2.6	15.0	0.4	0.1	14.4	1		

**ASTA NUM. 83** NI 187 NF 188 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.

qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-670	22	-1	1	0	91	2.6	14.8	0.1	0.1	14.3	1		
1	20	-670	19	-1	1	0	95	2.6	15.5	0.1	0.1	14.8	1		
1	40	-670	17	-1	1	0	99	2.6	16.1	0.1	0.1	15.3	1		

**ASTA NUM. 84** NI 188 NF 189 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.

qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-662	-38	-0	1	0	100	2.6	16.3	0.2	0.1	15.4	1		
1	20	-662	-41	-0	1	0	92	2.6	15.0	0.2	0.1	14.4	1		
1	40	-662	-43	-0	1	0	84	2.6	13.7	0.3	0.1	13.3	1		



**ASTA NUM. 85** NI 189 NF 190 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-639	-103	-0	1	0	87	2.5	14.1	0.6	0.1	13.6	1	
1	20	-639	-105	-0	1	0	66	2.5	10.8	0.6	0.1	11.0	1	
1	40	-639	-108	-0	1	0	45	2.5	7.3	0.6	0.1	8.2	1	

**ASTA NUM. 86** NI 190 NF 191 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-604	-167	0	1	0	49	2.4	8.1	1.0	0.1	8.7	1	
1	20	-604	-169	0	1	0	16	2.4	2.6	1.0	0.1	4.4	1	
1	40	-604	-172	0	1	0	-19	2.4	3.1	1.0	0.1	4.8	1	

**ASTA NUM. 87** NI 191 NF 192 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-565	-193	1	1	0	-14	2.2	2.3	1.1	0.1	4.0	1	
1	20	-565	-195	1	1	-0	-53	2.2	8.6	1.1	0.1	8.9	1	
1	40	-565	-198	1	1	-0	-92	2.2	15.0	1.2	0.1	14.0	1	

**ASTA NUM. 88** NI 192 NF 35 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-536	-136	4	1	-0	-89	2.1	14.5	0.8	0.1	13.5	1	
1	20	-536	-138	4	1	-1	-116	2.1	19.1	0.8	0.1	17.1	1	
1	40	-536	-141	4	1	-2	-144	2.1	23.7	0.8	0.1	20.8	1	

**ASTA NUM. 89** NI 35 NF 193 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-376	185	2	-1	1	-163	1.5	26.7	1.1	0.1	22.4	1	
1	20	-376	183	2	-1	0	-126	1.5	20.6	1.1	0.1	17.7	1	
1	40	-376	180	2	-1	-0	-90	1.5	14.7	1.1	0.1	13.0	1	

**ASTA NUM. 90** NI 193 NF 194 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-396	204	-0	-1	-0	-94	1.5	15.3	1.2	0.1	13.5	1	
1	20	-396	201	-0	-1	-0	-53	1.5	8.7	1.2	0.1	8.4	1	
1	40	-396	198	-0	-1	-0	-13	1.5	2.2	1.2	0.1	3.3	1	

**ASTA NUM. 91** NI 194 NF 195 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-425	165	-0	-1	-0	-18	1.7	3.0	1.0	0.1	4.0	1	
1	20	-425	162	-0	-1	0	14	1.7	2.3	1.0	0.1	3.5	2	
1	40	-425	160	-0	-1	0	47	1.7	7.6	0.9	0.1	7.6	1	

**ASTA NUM. 92** NI 195 NF 196 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-451	99	-0	-1	0	42	1.8	6.8	0.6	0.1	7.1	1	
1	20	-451	96	-0	-1	0	61	1.8	10.0	0.6	0.1	9.6	1	
1	40	-451	93	-0	-1	0	80	1.8	13.1	0.5	0.1	12.1	1	

**ASTA NUM. 93** NI 196 NF 197 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-466	34	-0	-1	0	78	1.8	12.7	0.2	0.1	11.8	1	
1	20	-466	31	-0	-1	0	84	1.8	13.7	0.2	0.1	12.6	1	
1	40	-466	29	-0	-1	0	90	1.8	14.7	0.2	0.1	13.4	1	

**ASTA NUM. 94** NI 197 NF 198 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-467	-27	0	-1	0	90	1.8	14.7	0.2	0.1	13.4	1	
1	20	-467	-29	0	-1	0	84	1.8	13.8	0.2	0.1	12.7	1	
1	40	-467	-32	0	-1	0	78	1.8	12.8	0.2	0.1	11.9	1	

**ASTA NUM. 95** NI 198 NF 199 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-453	-91	0	-1	0	81	1.8	13.2	0.5	0.1	12.1	1	
1	20	-453	-94	0	-1	0	62	1.8	10.2	0.5	0.1	9.8	1	
1	40	-453	-96	0	-1	0	43	1.8	7.1	0.6	0.1	7.3	1	

**ASTA NUM. 96** NI 199 NF 200 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-427	-158	0	-1	-0	48	1.7	7.8	0.9	0.1	7.8	2	
1	20	-427	-161	0	-1	-0	16	1.7	2.6	0.9	0.1	3.7	1	
1	40	-427	-164	0	-1	-0	-16	1.7	2.7	1.0	0.1	3.8	1	

**ASTA NUM. 97** NI 200 NF 201 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-399	-198	-1	-1	-0	-11	1.6	1.9	1.2	0.1	3.0	1	
1	20	-399	-201	-1	-1	-0	-51	1.6	8.3	1.2	0.1	8.1	1	
1	40	-399	-203	-1	-1	0	-91	1.6	14.9	1.2	0.1	13.3	1	

**ASTA NUM. 98** NI 201 NF 54 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-379	-179	-2	-1	-0	-88	1.5	14.3	1.0	0.1	12.7	1	
1	20	-379	-182	-2	-1	0	-124	1.5	20.2	1.1	0.1	17.4	1	
1	40	-379	-184	-2	-1	1	-161	1.5	26.3	1.1	0.1	22.1	1	

**ASTA NUM. 99** NI 54 NF 202 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-527	134	-3	-1	-1	-142	2.1	23.2	0.8	0.1	20.3	1	
1	20	-527	131	-3	-1	-0	-115	2.1	18.8	0.8	0.1	16.8	1	
1	40	-527	129	-3	-1	0	-89	2.1	14.6	0.8	0.1	13.5	1	

**ASTA NUM. 100** NI 202 NF 203 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-556	195	-1	-1	0	-92	2.2	15.1	1.1	0.1	14.0	1	
1	20	-556	193	-1	-1	0	-54	2.2	8.8	1.1	0.1	9.1	1	
1	40	-556	190	-1	-1	1	-15	2.2	2.6	1.1	0.1	4.2	1	

**ASTA NUM. 101** NI 203 NF 204 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-594	172	1	-1	1	-20	2.3	3.4	1.0	0.1	5.0	1	
1	20	-594	170	1	-1	0	14	2.3	2.3	1.0	0.1	4.2	1	
1	40	-594	167	1	-1	0	48	2.3	7.8	1.0	0.1	8.4	1	

**ASTA NUM. 102** NI 204 NF 205 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-629	108	2	-1	0	43	2.5	7.0	0.6	0.1	8.0	1	
1	20	-629	106	2	-1	0	64	2.5	10.5	0.6	0.1	10.7	1	
1	40	-629	103	2	-1	-0	85	2.5	13.9	0.6	0.1	13.4	1	

**ASTA NUM. 103** NI 205 NF 206 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-653	44	2	-1	-0	82	2.5	13.3	0.3	0.1	13.0	1	
1	20	-653	42	2	-1	-0	90	2.5	14.8	0.2	0.1	14.2	1	
1	40	-653	39	2	-1	-1	98	2.5	16.2	0.2	0.1	15.2	1	

**ASTA NUM. 104** NI 206 NF 207 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-661	-14	1	-1	-1	97	2.6	15.9	0.1	0.1	15.1	1	
1	20	-661	-16	1	-1	-1	94	2.6	15.4	0.1	0.1	14.7	1	
1	40	-661	-19	1	-1	-1	91	2.6	14.9	0.1	0.1	14.3	1	

**ASTA NUM. 105** NI 207 NF 208 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-653	-70	-1	-1	-1	91	2.6	15.0	0.4	0.1	14.3	1	
1	20	-653	-72	-1	-1	-1	77	2.6	12.6	0.4	0.1	12.5	1	
1	40	-653	-75	-1	-1	-1	62	2.6	10.2	0.4	0.1	10.6	1	

**ASTA NUM. 106** NI 208 NF 209 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-631	-113	-3	-1	-1	64	2.5	10.5	0.7	0.1	10.8	1	
1	20	-631	-115	-3	-1	-0	41	2.5	6.7	0.7	0.1	7.8	1	
1	40	-631	-118	-3	-1	0	18	2.5	2.9	0.7	0.1	4.8	1	

**ASTA NUM. 107** NI 209 NF 210 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-601	-81	-3	-1	-0	20	2.3	3.2	0.5	0.1	4.9	1	
1	20	-601	-84	-3	-1	0	3	2.3	0.6	0.5	0.1	2.8	1	
1	40	-601	-86	-3	-1	1	-14	2.3	2.4	0.5	0.1	4.2	1	

**ASTA NUM. 108** NI 210 NF 73 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-572	140	5	-1	1	-13	2.2	2.2	0.8	0.1	4.0	1	
1	20	-572	138	5	-1	-0	15	2.2	2.5	0.8	0.1	4.2	1	
1	40	-572	135	5	-1	-1	42	2.2	7.1	0.8	0.1	7.8	1	

**ASTA NUM. 109** NI 51 NF 481 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	135	402	-17	-4	12	-272	0.5	46.2	2.4	0.5	35.1	1	
1	20	135	399	-17	-4	15	-192	0.5	33.7	2.3	0.5	25.8	1	
1	40	135	397	-17	-4	19	-112	0.5	21.2	2.3	0.5	16.5	1	

**ASTA NUM. 110** NI 481 NF 183 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	134	299	-18	-4	4	-120	0.5	20.2	1.8	0.5	15.6	1	
1	20	134	297	-18	-4	8	-60	0.5	11.0	1.7	0.5	8.8	1	
1	40	134	294	-18	-4	12	-1	0.5	2.0	1.7	0.5	2.0	3	

**ASTA NUM. 111** NI 183 NF 182 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	135	227	-16	-4	-7	-11	0.5	2.8	1.3	0.5	2.6	3	
1	20	135	224	-16	-4	-4	35	0.5	6.2	1.3	0.5	5.2	1	
1	40	135	222	-16	-4	-0	79	0.5	12.9	1.3	0.5	10.2	1	

**ASTA NUM. 112** NI 182 NF 181 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	137	152	-10	-4	-16	71	0.5	14.2	0.9	0.5	11.2	1	
1	20	137	150	-10	-4	-15	101	0.5	18.8	0.9	0.5	14.6	1	
1	40	137	147	-10	-4	-13	131	0.5	23.3	0.9	0.5	18.0	1	

ASTA NUM. 113 NI 181 NF 180 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	140	77	0	-4	-23	125	0.5	24.1	0.4	0.5	18.6	1	
1	20	140	74	0	-4	-23	140	0.5	26.6	0.4	0.5	20.5	1	
1	40	140	71	0	-4	-23	155	0.5	28.9	0.4	0.5	22.3	1	

ASTA NUM. 114 NI 180 NF 179 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	143	1	10	-4	-25	154	0.6	29.2	0.1	0.5	22.4	1	
1	20	143	-2	10	-4	-27	154	0.6	29.5	0.1	0.5	22.6	1	
1	40	143	-4	10	-4	-29	153	0.6	29.7	0.1	0.5	22.8	1	

ASTA NUM. 115 NI 179 NF 178 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	146	-73	14	-4	-24	156	0.6	29.3	0.4	0.5	22.5	1	
1	20	146	-75	14	-4	-26	141	0.6	27.3	0.4	0.5	21.1	1	
1	40	146	-78	14	-4	-29	126	0.6	25.3	0.5	0.5	19.5	1	

ASTA NUM. 116 NI 178 NF 177 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	151	-145	16	-4	-17	133	0.6	24.4	0.9	0.5	18.9	1	
1	20	151	-148	16	-4	-20	104	0.6	20.2	0.9	0.5	15.7	1	
1	40	151	-151	16	-4	-23	74	0.6	15.8	0.9	0.5	12.5	1	



**ASTA NUM. 117** NI 177 NF 176 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	156	-231	50	-4	-6	84	0.6	14.7	1.4	0.5	11.6	1	
1	20	156	-234	50	-4	-16	37	0.6	8.7	1.4	0.5	7.1	1	
1	40	156	-236	50	-4	-26	-10	0.6	5.8	1.4	0.5	5.0	1	

**ASTA NUM. 118** NI 176 NF 70 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	162	-339	209	-4	-9	0	0.6	1.6	2.0	0.5	1.8	3	
1	20	162	-341	209	-4	-51	-68	0.6	19.4	2.0	0.5	15.2	1	
1	40	162	-344	209	-4	-93	-136	0.6	37.3	2.0	0.5	28.6	1	

**ASTA NUM. 119** NI 10 NF 211 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	185	367	204	-1	88	-157	0.7	39.8	2.2	0.2	30.6	1	
1	20	185	365	204	-1	47	-84	0.7	21.3	2.1	0.2	16.7	1	
1	40	185	362	204	-1	7	-11	0.7	2.9	2.1	0.2	2.9	3	

**ASTA NUM. 120** NI 211 NF 212 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	179	258	48	-1	24	-21	0.7	7.4	1.5	0.2	6.2	1	
1	20	179	255	48	-1	14	30	0.7	7.2	1.5	0.2	6.1	1	
1	40	179	253	48	-1	5	81	0.7	13.9	1.5	0.2	11.1	1	

ASTA NUM. 121 NI 212 NF 213 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	172	166	16	-1	23	71	0.7	15.2	1.0	0.2	12.1	1	
1	20	172	163	16	-1	20	103	0.7	20.0	1.0	0.2	15.7	1	
1	40	172	161	16	-1	17	136	0.7	24.8	0.9	0.2	19.3	1	

ASTA NUM. 122 NI 213 NF 214 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	166	87	15	-1	30	129	0.6	25.8	0.5	0.2	20.0	1	
1	20	166	84	15	-1	27	146	0.6	28.1	0.5	0.2	21.7	1	
1	40	166	81	15	-1	24	162	0.6	30.3	0.5	0.2	23.4	1	

ASTA NUM. 123 NI 214 NF 215 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	162	6	9	-1	30	159	0.6	30.8	0.1	0.2	23.7	1	
1	20	162	3	9	-1	28	160	0.6	30.6	0.1	0.2	23.6	1	
1	40	162	0	9	-1	27	160	0.6	30.4	0.1	0.2	23.4	1	

ASTA NUM. 124 NI 215 NF 216 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	158	-77	1	-1	25	161	0.6	30.2	0.4	0.2	23.3	1	
1	20	158	-79	1	-1	24	146	0.6	27.6	0.5	0.2	21.4	1	
1	40	158	-82	1	-1	24	130	0.6	25.0	0.5	0.2	19.4	1	

**ASTA NUM. 125** NI 216 NF 217 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	155	-158	-6	-1	14	135	0.6	24.2	0.9	0.2	18.8	1	
1	20	155	-161	-6	-1	15	103	0.6	19.2	0.9	0.2	15.0	1	
1	40	155	-163	-6	-1	16	71	0.6	14.1	1.0	0.2	11.2	1	

**ASTA NUM. 126** NI 217 NF 218 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	152	-238	-9	-1	0	79	0.6	12.9	1.4	0.2	10.3	1	
1	20	152	-241	-9	-1	2	31	0.6	5.4	1.4	0.2	4.7	1	
1	40	152	-243	-9	-1	4	-17	0.6	3.5	1.4	0.2	3.2	1	

**ASTA NUM. 127** NI 218 NF 219 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	151	-316	-8	-1	-14	-8	0.6	3.6	1.9	0.2	3.3	3	
1	20	151	-319	-8	-1	-13	-71	0.6	13.7	1.9	0.2	10.8	1	
1	40	151	-322	-8	-1	-11	-135	0.6	23.8	1.9	0.2	18.5	1	

**ASTA NUM. 128** NI 219 NF 29 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	151	-418	-10	-1	-25	-128	0.6	24.9	2.4	0.2	19.3	1	
1	20	151	-420	-10	-1	-23	-211	0.6	38.2	2.5	0.2	29.3	1	
1	40	151	-423	-10	-1	-21	-296	0.6	51.6	2.5	0.2	39.3	1	

ASTA NUM. 129 NI 29 NF 220 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	56	364	-40	-1	-37	-264	0.2	49.0	2.1	0.2	37.0	1	
1	20	56	361	-40	-1	-29	-191	0.2	35.9	2.1	0.2	27.2	1	
1	40	56	359	-40	-1	-21	-120	0.2	22.9	2.1	0.2	17.4	1	

ASTA NUM. 130 NI 220 NF 221 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	53	283	8	-1	-10	-125	0.2	21.9	1.7	0.2	16.7	1	
1	20	53	281	8	-1	-11	-69	0.2	13.0	1.6	0.2	10.0	1	
1	40	53	278	8	-1	-13	-13	0.2	4.2	1.6	0.2	3.3	1	

ASTA NUM. 131 NI 221 NF 222 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	51	208	15	-1	2	-20	0.2	3.6	1.2	0.2	2.9	1	
1	20	51	205	15	-1	-0	21	0.2	3.5	1.2	0.2	2.9	1	
1	40	51	202	15	-1	-3	62	0.2	10.6	1.2	0.2	8.2	1	

ASTA NUM. 132 NI 222 NF 223 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	50	127	10	-1	10	56	0.2	10.7	0.7	0.2	8.2	1	
1	20	50	124	10	-1	8	81	0.2	14.4	0.7	0.2	11.0	1	
1	40	50	122	10	-1	6	105	0.2	18.1	0.7	0.2	13.8	1	

**ASTA NUM. 133** NI 223 NF 224 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	50	46	4	-1	14	102	0.2	18.8	0.3	0.2	14.3	1	
1	20	50	43	4	-1	13	111	0.2	20.1	0.3	0.2	15.3	1	
1	40	50	40	4	-1	12	119	0.2	21.3	0.2	0.2	16.2	1	

**ASTA NUM. 134** NI 224 NF 225 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	50	-36	-3	-1	12	119	0.2	21.3	0.2	0.2	16.2	1	
1	20	50	-39	-3	-1	13	111	0.2	20.2	0.2	0.2	15.4	1	
1	40	50	-41	-3	-1	14	103	0.2	19.0	0.2	0.2	14.5	1	

**ASTA NUM. 135** NI 225 NF 226 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	50	-117	-9	-1	7	107	0.2	18.4	0.7	0.2	14.0	1	
1	20	50	-120	-9	-1	8	83	0.2	14.9	0.7	0.2	11.3	1	
1	40	50	-123	-9	-1	10	59	0.2	11.2	0.7	0.2	8.6	1	

**ASTA NUM. 136** NI 226 NF 227 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	51	-198	-14	-1	-3	65	0.2	11.0	1.2	0.2	8.4	1	
1	20	51	-201	-14	-1	0	25	0.2	4.1	1.2	0.2	3.3	1	
1	40	51	-203	-14	-1	3	-15	0.2	3.0	1.2	0.2	2.4	1	

**ASTA NUM. 137** NI 227 NF 228 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	52	-275	-9	-1	-12	-8	0.2	3.3	1.6	0.2	2.7	3	
1	20	52	-277	-9	-1	-10	-63	0.2	12.0	1.6	0.2	9.2	1	
1	40	52	-280	-9	-1	-9	-119	0.2	20.8	1.6	0.2	15.8	1	

**ASTA NUM. 138** NI 228 NF 48 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	55	-358	31	-1	-20	-114	0.2	21.8	2.1	0.2	16.5	1	
1	20	55	-361	31	-1	-26	-185	0.2	34.5	2.1	0.2	26.1	1	
1	40	55	-363	31	-1	-33	-258	0.2	47.3	2.1	0.2	35.7	1	

**ASTA NUM. 139** NI 48 NF 229 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	147	418	3	3	-22	-291	0.6	50.9	2.4	0.3	38.8	1	
1	20	147	415	3	3	-22	-208	0.6	37.5	2.4	0.3	28.7	1	
1	40	147	413	3	3	-23	-125	0.6	24.1	2.4	0.3	18.7	1	

**ASTA NUM. 140** NI 229 NF 230 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	146	320	9	3	-9	-133	0.6	23.1	1.9	0.3	17.9	1	
1	20	146	317	9	3	-11	-69	0.6	13.0	1.9	0.3	10.3	1	
1	40	146	314	9	3	-13	-6	0.6	3.0	1.8	0.3	2.8	3	

**ASTA NUM. 141** NI 230 NF 231 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	148	242	12	3	6	-16	0.6	3.5	1.4	0.3	3.2	1	
1	20	148	239	12	3	3	32	0.6	5.8	1.4	0.3	5.0	1	
1	40	148	237	12	3	1	80	0.6	13.2	1.4	0.3	10.5	1	

**ASTA NUM. 142** NI 231 NF 232 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	150	162	8	3	17	71	0.6	14.4	0.9	0.3	11.4	1	
1	20	150	159	8	3	16	103	0.6	19.4	0.9	0.3	15.1	1	
1	40	150	157	8	3	14	135	0.6	24.3	0.9	0.3	18.8	1	

**ASTA NUM. 143** NI 232 NF 233 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	153	80	1	3	24	130	0.6	25.1	0.5	0.3	19.4	1	
1	20	153	78	1	3	24	145	0.6	27.6	0.5	0.3	21.3	1	
1	40	153	75	1	3	24	161	0.6	30.0	0.4	0.3	23.1	1	

**ASTA NUM. 144** NI 233 NF 234 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	157	-2	-7	3	26	159	0.6	30.2	0.0	0.3	23.3	1	
1	20	157	-5	-7	3	28	159	0.6	30.3	0.0	0.3	23.4	1	
1	40	157	-7	-7	3	29	158	0.6	30.4	0.0	0.3	23.4	1	

**ASTA NUM. 145** NI 234 NF 235 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	161	-83	-13	3	23	161	0.6	29.9	0.5	0.3	23.1	1	
1	20	161	-86	-13	3	26	144	0.6	27.6	0.5	0.3	21.3	1	
1	40	161	-88	-13	3	28	126	0.6	25.2	0.5	0.3	19.5	1	

**ASTA NUM. 146** NI 235 NF 236 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	166	-163	-15	3	15	134	0.6	24.2	1.0	0.3	18.8	1	
1	20	166	-165	-15	3	18	101	0.6	19.3	1.0	0.3	15.2	1	
1	40	166	-168	-15	3	21	68	0.6	14.4	1.0	0.3	11.4	1	

**ASTA NUM. 147** NI 236 NF 237 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	173	-256	-49	3	2	78	0.7	13.1	1.5	0.3	10.5	1	
1	20	173	-258	-49	3	12	27	0.7	6.3	1.5	0.3	5.4	1	
1	40	173	-261	-49	3	22	-25	0.7	7.7	1.5	0.3	6.5	1	

**ASTA NUM. 148** NI 237 NF 67 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	179	-367	-210	3	4	-15	0.7	3.1	2.2	0.3	3.0	3	
1	20	179	-370	-210	3	46	-88	0.7	21.9	2.2	0.3	17.2	1	
1	40	179	-372	-210	3	88	-163	0.7	40.8	2.2	0.3	31.3	1	



**ASTA NUM. 149** NI 9 NF 238 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-111	364	204	3	97	-155	0.4	41.1	2.1	0.4	32.7	1	
1	20	-111	362	204	3	57	-82	0.4	22.6	2.1	0.4	18.2	1	
1	40	-111	359	204	3	16	-10	0.4	4.3	2.1	0.4	3.8	3	

**ASTA NUM. 150** NI 238 NF 239 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-112	271	87	3	37	-22	0.4	9.6	1.6	0.4	8.0	1	
1	20	-112	269	87	3	20	32	0.4	8.5	1.6	0.4	7.1	1	
1	40	-112	266	87	3	3	86	0.4	14.4	1.6	0.4	11.8	1	

**ASTA NUM. 151** NI 239 NF 240 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-114	169	31	3	25	74	0.4	16.2	1.0	0.4	13.2	1	
1	20	-114	167	31	3	19	108	0.4	20.6	1.0	0.4	16.7	1	
1	40	-114	164	31	3	13	141	0.4	25.0	1.0	0.4	20.1	1	

**ASTA NUM. 152** NI 240 NF 241 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-115	85	18	3	30	132	0.4	26.3	0.5	0.4	21.1	1	
1	20	-115	82	18	3	26	149	0.4	28.5	0.5	0.4	22.8	1	
1	40	-115	80	18	3	22	165	0.4	30.5	0.5	0.4	24.4	1	

**ASTA NUM. 153** NI 241 NF 242 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-116	4	13	3	31	161	0.5	31.2	0.1	0.4	25.0	1	
1	20	-116	2	13	3	29	161	0.5	30.9	0.1	0.4	24.7	1	
1	40	-116	-1	13	3	26	161	0.5	30.4	0.1	0.4	24.4	1	

**ASTA NUM. 154** NI 242 NF 243 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-116	-77	9	3	26	161	0.5	30.5	0.4	0.4	24.4	1	
1	20	-116	-79	9	3	24	146	0.5	27.7	0.5	0.4	22.2	1	
1	40	-116	-82	9	3	23	130	0.5	24.8	0.5	0.4	19.9	1	

**ASTA NUM. 155** NI 243 NF 244 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-117	-156	6	3	15	134	0.5	24.2	0.9	0.4	19.5	1	
1	20	-117	-159	6	3	13	102	0.5	18.9	0.9	0.4	15.3	1	
1	40	-117	-162	6	3	12	70	0.5	13.4	0.9	0.4	11.0	1	

**ASTA NUM. 156** NI 244 NF 245 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-116	-237	1	3	-2	78	0.5	13.1	1.4	0.4	10.8	1	
1	20	-116	-240	1	3	-3	31	0.5	5.4	1.4	0.4	4.7	1	
1	40	-116	-242	1	3	-3	-18	0.5	3.3	1.4	0.4	3.1	1	

**ASTA NUM. 157** NI 245 NF 246 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-115	-325	-21	3	-21	-8	0.4	4.7	1.9	0.4	4.2	3	
1	20	-115	-328	-21	3	-17	-73	0.4	14.7	1.9	0.4	12.0	1	
1	40	-115	-330	-21	3	-13	-139	0.4	24.7	1.9	0.4	19.9	1	

**ASTA NUM. 158** NI 246 NF 30 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-113	-432	-36	3	-28	-131	0.4	25.9	2.5	0.4	20.8	1	
1	20	-113	-434	-36	3	-21	-217	0.4	38.9	2.5	0.4	31.0	1	
1	40	-113	-437	-36	3	-14	-305	0.4	51.9	2.6	0.4	41.2	1	

**ASTA NUM. 159** NI 30 NF 247 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-103	404	51	-0	-6	-279	0.4	46.4	2.4	0.0	36.9	1	
1	20	-103	401	51	-0	-16	-199	0.4	35.0	2.4	0.0	27.9	1	
1	40	-103	399	51	-0	-26	-119	0.4	23.6	2.3	0.0	19.0	1	

**ASTA NUM. 160** NI 247 NF 248 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-106	292	23	-0	-12	-126	0.4	22.4	1.7	0.0	18.0	1	
1	20	-106	289	23	-0	-16	-68	0.4	13.7	1.7	0.0	11.2	1	
1	40	-106	287	23	-0	-21	-10	0.4	5.1	1.7	0.0	4.4	1	

**ASTA NUM. 161** NI 248 NF 249 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-108	206	7	-0	-4	-19	0.4	3.7	1.2	0.0	3.3	1	
1	20	-108	203	7	-0	-5	22	0.4	4.5	1.2	0.0	3.9	1	
1	40	-108	201	7	-0	-7	63	0.4	11.3	1.2	0.0	9.3	1	

**ASTA NUM. 162** NI 249 NF 250 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-108	126	4	-0	7	56	0.4	10.2	0.7	0.0	8.5	1	
1	20	-108	124	4	-0	6	81	0.4	14.2	0.7	0.0	11.5	1	
1	40	-108	121	4	-0	6	105	0.4	18.0	0.7	0.0	14.6	1	

**ASTA NUM. 163** NI 250 NF 251 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-109	47	2	-0	13	101	0.4	18.6	0.3	0.0	15.0	1	
1	20	-109	44	2	-0	13	110	0.4	20.0	0.3	0.0	16.2	1	
1	40	-109	42	2	-0	13	119	0.4	21.3	0.2	0.0	17.2	1	

**ASTA NUM. 164** NI 251 NF 252 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-109	-34	-2	-0	13	118	0.4	21.4	0.2	0.0	17.2	1	
1	20	-109	-36	-2	-0	13	111	0.4	20.3	0.2	0.0	16.4	1	
1	40	-109	-39	-2	-0	14	104	0.4	19.1	0.2	0.0	15.4	1	

**ASTA NUM. 165** NI 252 NF 253 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-110	-113	-4	-0	7	107	0.4	18.5	0.7	0.0	15.0	1	
1	20	-110	-116	-4	-0	8	84	0.4	14.9	0.7	0.0	12.2	1	
1	40	-110	-118	-4	-0	8	61	0.4	11.2	0.7	0.0	9.3	1	

**ASTA NUM. 166** NI 253 NF 254 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-110	-193	-6	-0	-5	67	0.4	11.7	1.1	0.0	9.6	1	
1	20	-110	-195	-6	-0	-4	28	0.4	5.2	1.1	0.0	4.5	1	
1	40	-110	-198	-6	-0	-2	-11	0.4	2.2	1.2	0.0	2.2	1	

**ASTA NUM. 167** NI 254 NF 255 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-110	-279	-22	-0	-19	-3	0.4	3.6	1.6	0.0	3.2	3	
1	20	-110	-281	-22	-0	-14	-59	0.4	12.0	1.6	0.0	9.8	1	
1	40	-110	-284	-22	-0	-10	-116	0.4	20.4	1.7	0.0	16.5	1	

**ASTA NUM. 168** NI 255 NF 49 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-108	-392	-54	-0	-24	-109	0.4	21.6	2.3	0.0	17.4	1	
1	20	-108	-395	-54	-0	-13	-188	0.4	32.7	2.3	0.0	26.1	1	
1	40	-108	-397	-54	-0	-2	-267	0.4	43.8	2.3	0.0	34.9	1	

**ASTA NUM. 169** NI 49 NF 256 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-130	432	39	-3	-8	-297	0.5	49.7	2.5	0.4	39.5	1	
1	20	-130	429	39	-3	-16	-211	0.5	36.9	2.5	0.4	29.5	1	
1	40	-130	427	39	-3	-24	-125	0.5	24.3	2.5	0.4	19.6	1	

**ASTA NUM. 170** NI 256 NF 257 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-133	327	27	-3	-8	-133	0.5	23.0	1.9	0.4	18.6	1	
1	20	-133	324	27	-3	-14	-68	0.5	13.3	1.9	0.4	11.0	1	
1	40	-133	321	27	-3	-19	-4	0.5	3.7	1.9	0.4	3.4	3	

**ASTA NUM. 171** NI 257 NF 258 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-136	238	5	-3	0	-14	0.5	2.2	1.4	0.4	2.3	3	
1	20	-136	236	5	-3	-1	34	0.5	5.6	1.4	0.4	5.0	1	
1	40	-136	233	5	-3	-2	81	0.5	13.4	1.4	0.4	11.1	1	

**ASTA NUM. 172** NI 258 NF 259 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-137	157	-1	-3	14	73	0.5	14.1	0.9	0.4	11.6	1	
1	20	-137	155	-1	-3	14	104	0.5	19.2	0.9	0.4	15.6	1	
1	40	-137	152	-1	-3	14	135	0.5	24.2	0.9	0.4	19.5	1	

ASTA NUM. 173 NI 259 NF 260 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	-138	77	-3	-3	23	130	0.5	24.9	0.5	0.4	20.1	1	
1	20	-138	75	-3	-3	24	145	0.5	27.5	0.4	0.4	22.1	1	
1	40	-138	72	-3	-3	25	160	0.5	30.0	0.4	0.4	24.1	1	

ASTA NUM. 174 NI 260 NF 261 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	-138	-3	-9	-3	25	159	0.5	30.1	0.0	0.4	24.2	1	
1	20	-138	-6	-9	-3	27	158	0.5	30.2	0.0	0.4	24.3	1	
1	40	-138	-9	-9	-3	29	157	0.5	30.3	0.1	0.4	24.3	1	

ASTA NUM. 175 NI 261 NF 262 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	-139	-84	-14	-3	21	161	0.5	29.7	0.5	0.4	23.9	1	
1	20	-139	-87	-14	-3	24	144	0.5	27.3	0.5	0.4	22.0	1	
1	40	-139	-89	-14	-3	27	127	0.5	24.9	0.5	0.4	20.1	1	

ASTA NUM. 176 NI 262 NF 263 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	-139	-168	-25	-3	11	135	0.5	23.7	1.0	0.4	19.2	1	
1	20	-139	-170	-25	-3	16	101	0.5	19.0	1.0	0.4	15.5	1	
1	40	-139	-173	-25	-3	21	67	0.5	14.3	1.0	0.4	11.7	1	

**ASTA NUM. 177** NI 263 NF 264 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-139	-269	-79	-3	-1	78	0.5	12.9	1.6	0.4	10.7	1	
1	20	-139	-272	-79	-3	15	24	0.5	6.4	1.6	0.4	5.5	1	
1	40	-139	-274	-79	-3	30	-30	0.5	9.9	1.6	0.4	8.3	1	

**ASTA NUM. 178** NI 264 NF 68 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-139	-371	-217	-3	9	-19	0.5	4.6	2.2	0.4	4.2	1	
1	20	-139	-373	-217	-3	53	-93	0.5	23.8	2.2	0.4	19.2	1	
1	40	-139	-376	-217	-3	96	-168	0.5	43.0	2.2	0.4	34.3	1	

**ASTA NUM. 179** NI 8 NF 265 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-603	208	154	-2	86	-81	2.4	27.2	1.2	0.2	23.7	1	
1	20	-603	206	154	-2	55	-40	2.4	15.5	1.2	0.2	14.5	1	
1	40	-603	203	154	-2	25	1	2.4	4.2	1.2	0.2	5.7	3	

**ASTA NUM. 180** NI 265 NF 266 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-581	157	91	-2	37	-2	2.3	6.3	0.9	0.2	7.2	1	
1	20	-581	154	91	-2	19	29	2.3	7.8	0.9	0.2	8.4	1	
1	40	-581	152	91	-2	0	60	2.3	9.9	0.9	0.2	10.0	1	



**ASTA NUM. 181** NI 266 NF 267 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-557	93	41	-2	13	57	2.2	11.4	0.5	0.2	11.2	1	
1	20	-557	90	41	-2	5	75	2.2	13.1	0.5	0.2	12.5	1	
1	40	-557	88	41	-2	-3	93	2.2	15.6	0.5	0.2	14.5	1	

**ASTA NUM. 182** NI 267 NF 268 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-540	40	17	-2	7	91	2.1	15.8	0.2	0.2	14.6	1	
1	20	-540	37	17	-2	3	98	2.1	16.5	0.2	0.2	15.1	1	
1	40	-540	35	17	-2	-0	106	2.1	17.2	0.2	0.2	15.7	1	

**ASTA NUM. 183** NI 268 NF 269 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-531	-7	9	-2	5	104	2.1	17.7	0.1	0.2	16.0	1	
1	20	-531	-9	9	-2	3	103	2.1	17.2	0.1	0.2	15.6	1	
1	40	-531	-12	9	-2	1	101	2.1	16.5	0.1	0.2	15.1	1	

**ASTA NUM. 184** NI 269 NF 270 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-530	-52	5	-2	1	101	2.1	16.6	0.3	0.2	15.1	1	
1	20	-530	-54	5	-2	0	90	2.1	14.7	0.3	0.2	13.6	1	
1	40	-530	-57	5	-2	-1	79	2.1	13.0	0.3	0.2	12.3	1	

**ASTA NUM. 185** NI 270 NF 271 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-538	-96	3	-2	-5	80	2.1	13.9	0.6	0.2	13.0	1	
1	20	-538	-98	3	-2	-6	61	2.1	10.8	0.6	0.2	10.6	1	
1	40	-538	-101	3	-2	-6	41	2.1	7.6	0.6	0.2	8.1	1	

**ASTA NUM. 186** NI 271 NF 272 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-553	-140	-1	-2	-15	43	2.2	9.3	0.8	0.2	9.5	1	
1	20	-553	-143	-1	-2	-14	14	2.2	4.7	0.8	0.2	5.8	1	
1	40	-553	-145	-1	-2	-14	-15	2.2	4.7	0.9	0.2	5.8	1	

**ASTA NUM. 187** NI 272 NF 273 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-572	-199	-38	-2	-25	-12	2.2	5.9	1.2	0.2	6.9	1	
1	20	-572	-202	-38	-2	-17	-52	2.2	11.2	1.2	0.2	11.1	1	
1	40	-572	-204	-38	-2	-9	-93	2.2	16.6	1.2	0.2	15.3	1	

**ASTA NUM. 188** NI 273 NF 31 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-589	-325	-210	-2	-19	-90	2.3	17.7	1.9	0.2	16.2	1	
1	20	-589	-328	-210	-2	23	-155	2.3	29.0	1.9	0.2	25.1	1	
1	40	-589	-330	-210	-2	65	-221	2.3	46.5	1.9	0.2	38.9	1	

**ASTA NUM. 189** NI 31 NF 274 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-105	294	201	3	68	-183	0.4	40.8	1.7	0.4	32.5	1	
1	20	-105	291	201	3	28	-124	0.4	24.8	1.7	0.4	19.9	1	
1	40	-105	289	201	3	-12	-66	0.4	12.8	1.7	0.4	10.4	1	

**ASTA NUM. 190** NI 274 NF 275 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-89	172	40	3	-3	-69	0.3	11.8	1.0	0.4	9.6	1	
1	20	-89	170	40	3	-11	-35	0.3	7.5	1.0	0.4	6.3	1	
1	40	-89	167	40	3	-19	-1	0.3	3.4	1.0	0.4	3.0	3	

**ASTA NUM. 191** NI 275 NF 276 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-71	116	8	3	-10	-4	0.3	2.2	0.7	0.4	2.0	3	
1	20	-71	113	8	3	-11	19	0.3	4.9	0.7	0.4	4.1	1	
1	40	-71	111	8	3	-13	41	0.3	8.8	0.6	0.4	7.2	1	

**ASTA NUM. 192** NI 276 NF 277 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-57	72	6	3	-5	39	0.2	7.2	0.4	0.4	5.9	1	
1	20	-57	69	6	3	-6	53	0.2	9.7	0.4	0.4	7.8	1	
1	40	-57	67	6	3	-8	67	0.2	12.1	0.4	0.4	9.7	1	

**ASTA NUM. 193** NI 277 NF 278 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-49	27	3	3	-3	66	0.2	11.2	0.2	0.4	9.0	1	
1	20	-49	25	3	3	-4	71	0.2	12.2	0.1	0.4	9.7	1	
1	40	-49	22	3	3	-5	76	0.2	13.0	0.1	0.4	10.4	1	

**ASTA NUM. 194** NI 278 NF 279 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-48	-18	-2	3	-4	75	0.2	12.9	0.1	0.4	10.4	1	
1	20	-48	-20	-2	3	-4	72	0.2	12.2	0.1	0.4	9.8	1	
1	40	-48	-23	-2	3	-3	67	0.2	11.5	0.1	0.4	9.2	1	

**ASTA NUM. 195** NI 279 NF 280 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-55	-62	-5	3	-7	68	0.2	12.2	0.4	0.4	9.8	1	
1	20	-55	-65	-5	3	-6	56	0.2	10.0	0.4	0.4	8.0	1	
1	40	-55	-67	-5	3	-5	42	0.2	7.6	0.4	0.4	6.2	1	

**ASTA NUM. 196** NI 280 NF 281 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-67	-106	-7	3	-11	44	0.3	9.1	0.6	0.4	7.4	1	
1	20	-67	-109	-7	3	-10	23	0.3	5.4	0.6	0.4	4.5	1	
1	40	-67	-111	-7	3	-9	1	0.3	1.5	0.7	0.4	1.5	3	

**ASTA NUM. 197** NI 281 NF 282 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-84	-161	-36	3	-18	4	0.3	3.4	0.9	0.4	3.0	3	
1	20	-84	-164	-36	3	-11	-29	0.3	6.4	1.0	0.4	5.4	1	
1	40	-84	-166	-36	3	-3	-62	0.3	10.6	1.0	0.4	8.7	1	

**ASTA NUM. 198** NI 282 NF 50 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-99	-278	-185	3	-12	-59	0.4	11.5	1.6	0.4	9.4	1	
1	20	-99	-281	-185	3	25	-115	0.4	22.8	1.6	0.4	18.3	1	
1	40	-99	-283	-185	3	62	-171	0.4	38.0	1.7	0.4	30.3	1	

**ASTA NUM. 199** NI 50 NF 283 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-576	333	235	-2	79	-217	2.2	48.2	2.0	0.2	40.1	1	
1	20	-576	331	235	-2	32	-151	2.2	29.8	1.9	0.2	25.6	1	
1	40	-576	328	235	-2	-15	-85	2.2	16.2	1.9	0.2	15.0	1	

**ASTA NUM. 200** NI 283 NF 284 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-558	201	48	-2	-4	-88	2.2	15.0	1.2	0.2	13.9	1	
1	20	-558	198	48	-2	-14	-48	2.2	10.0	1.2	0.2	10.1	1	
1	40	-558	195	48	-2	-24	-8	2.2	5.2	1.1	0.2	6.3	1	

**ASTA NUM. 201** NI 284 NF 285 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-537	140	6	-2	-12	-11	2.1	3.8	0.8	0.2	5.1	1	
1	20	-537	137	6	-2	-13	16	2.1	4.9	0.8	0.2	5.9	1	
1	40	-537	135	6	-2	-15	44	2.1	9.5	0.8	0.2	9.5	1	

**ASTA NUM. 202** NI 285 NF 286 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-521	95	2	-2	-6	41	2.0	7.6	0.6	0.2	8.0	1	
1	20	-521	93	2	-2	-6	60	2.0	10.8	0.5	0.2	10.5	1	
1	40	-521	90	2	-2	-6	78	2.0	13.8	0.5	0.2	12.9	1	

**ASTA NUM. 203** NI 286 NF 287 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-511	51	0	-2	-1	77	2.0	12.7	0.3	0.2	12.0	1	
1	20	-511	49	0	-2	-1	87	2.0	14.4	0.3	0.2	13.3	1	
1	40	-511	46	0	-2	-1	97	2.0	15.9	0.3	0.2	14.5	1	

**ASTA NUM. 204** NI 287 NF 288 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-510	6	-5	-2	-1	96	2.0	15.8	0.0	0.2	14.4	1	
1	20	-510	3	-5	-2	0	97	2.0	15.9	0.0	0.2	14.5	1	
1	40	-510	1	-5	-2	1	98	2.0	16.1	0.0	0.2	14.6	1	

ASTA NUM. 205 NI 288 NF 289 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-518	-41	-14	-2	-3	98	2.0	16.5	0.2	0.2	15.0	1	
1	20	-518	-44	-14	-2	-0	90	2.0	14.7	0.3	0.2	13.6	1	
1	40	-518	-46	-14	-2	3	81	2.0	13.6	0.3	0.2	12.7	1	

ASTA NUM. 206 NI 289 NF 290 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-534	-94	-37	-2	-6	83	2.1	14.5	0.5	0.2	13.5	1	
1	20	-534	-96	-37	-2	1	64	2.1	10.6	0.6	0.2	10.4	1	
1	40	-534	-99	-37	-2	9	44	2.1	8.6	0.6	0.2	8.9	1	

ASTA NUM. 207 NI 290 NF 291 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-556	-153	-75	-2	-4	47	2.2	8.2	0.9	0.2	8.6	1	
1	20	-556	-155	-75	-2	11	16	2.2	4.5	0.9	0.2	5.7	1	
1	40	-556	-158	-75	-2	26	-15	2.2	6.7	0.9	0.2	7.5	1	

ASTA NUM. 208 NI 291 NF 69 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-577	-185	-93	-2	15	-13	2.3	4.4	1.1	0.2	5.7	1	
1	20	-577	-188	-93	-2	33	-50	2.3	13.5	1.1	0.2	12.9	1	
1	40	-577	-190	-93	-2	52	-88	2.3	22.7	1.1	0.2	20.1	1	

ASTA NUM. 209 NI 14 NF 292 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-611	210	-157	2	-88	-81	2.4	27.5	1.2	0.2	24.0	1		
1	20	-611	207	-157	2	-56	-40	2.4	15.6	1.2	0.2	14.7	1		
1	40	-611	205	-157	2	-25	1	2.4	4.3	1.2	0.2	5.7	3		

ASTA NUM. 210 NI 292 NF 293 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-588	157	-92	2	-37	-2	2.3	6.3	0.9	0.2	7.3	1		
1	20	-588	155	-92	2	-19	30	2.3	7.9	0.9	0.2	8.5	1		
1	40	-588	152	-92	2	-0	60	2.3	9.9	0.9	0.2	10.1	1		

ASTA NUM. 211 NI 293 NF 294 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-565	93	-41	2	-13	57	2.2	11.5	0.5	0.2	11.2	1		
1	20	-565	90	-41	2	-5	75	2.2	13.1	0.5	0.2	12.5	1		
1	40	-565	88	-41	2	3	93	2.2	15.7	0.5	0.2	14.5	1		

ASTA NUM. 212 NI 294 NF 295 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-547	40	-18	2	-7	91	2.1	15.9	0.2	0.2	14.6	1		
1	20	-547	37	-18	2	-3	98	2.1	16.5	0.2	0.2	15.1	1		
1	40	-547	35	-18	2	0	106	2.1	17.2	0.2	0.2	15.7	1		



**ASTA NUM. 213** NI 295 NF 296 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-537	-7	-10	2	-5	104	2.1	17.8	0.1	0.2	16.1	1	
1	20	-537	-9	-10	2	-3	103	2.1	17.2	0.1	0.2	15.6	1	
1	40	-537	-12	-10	2	-1	101	2.1	16.6	0.1	0.2	15.1	1	

**ASTA NUM. 214** NI 296 NF 297 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-537	-52	-5	2	-1	101	2.1	16.6	0.3	0.2	15.1	1	
1	20	-537	-54	-5	2	-0	90	2.1	14.7	0.3	0.2	13.6	1	
1	40	-537	-57	-5	2	1	79	2.1	13.0	0.3	0.2	12.3	1	

**ASTA NUM. 215** NI 297 NF 298 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-545	-96	-3	2	5	80	2.1	13.8	0.6	0.2	13.0	1	
1	20	-545	-98	-3	2	6	60	2.1	10.8	0.6	0.2	10.6	1	
1	40	-545	-101	-3	2	6	41	2.1	7.6	0.6	0.2	8.1	1	

**ASTA NUM. 216** NI 298 NF 299 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-560	-140	1	2	15	42	2.2	9.3	0.8	0.2	9.5	1	
1	20	-560	-143	1	2	14	14	2.2	4.6	0.8	0.2	5.8	1	
1	40	-560	-146	1	2	14	-15	2.2	4.7	0.9	0.2	5.9	1	

**ASTA NUM. 217** NI 299 NF 300 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-578	-199	37	2	25	-12	2.3	6.0	1.2	0.2	7.0	1	
1	20	-578	-201	37	2	17	-52	2.3	11.3	1.2	0.2	11.1	1	
1	40	-578	-204	37	2	10	-93	2.3	16.7	1.2	0.2	15.4	1	

**ASTA NUM. 218** NI 300 NF 25 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-595	-323	204	2	19	-90	2.3	17.8	1.9	0.2	16.3	1	
1	20	-595	-325	204	2	-21	-155	2.3	28.7	1.9	0.2	24.9	1	
1	40	-595	-328	204	2	-62	-220	2.3	46.0	1.9	0.2	38.5	1	

**ASTA NUM. 219** NI 25 NF 301 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-150	293	-208	-3	-73	-179	0.6	41.1	1.7	0.4	32.9	1	
1	20	-150	291	-208	-3	-32	-121	0.6	24.8	1.7	0.4	20.1	1	
1	40	-150	288	-208	-3	10	-63	0.6	11.9	1.7	0.4	9.9	1	

**ASTA NUM. 220** NI 301 NF 302 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-134	170	-43	-3	1	-66	0.5	10.9	1.0	0.4	9.1	1	
1	20	-134	167	-43	-3	10	-32	0.5	6.8	1.0	0.4	5.9	1	
1	40	-134	165	-43	-3	18	1	0.5	3.1	1.0	0.4	3.0	3	

**ASTA NUM. 221** NI 302 NF 303 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-116	113	-10	-3	8	-2	0.5	1.7	0.7	0.4	1.8	3	
1	20	-116	110	-10	-3	10	20	0.5	5.0	0.6	0.4	4.4	1	
1	40	-116	108	-10	-3	12	42	0.5	8.9	0.6	0.4	7.4	1	

**ASTA NUM. 222** NI 303 NF 304 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-101	69	-8	-3	4	40	0.4	7.3	0.4	0.4	6.1	1	
1	20	-101	66	-8	-3	6	54	0.4	9.7	0.4	0.4	8.0	1	
1	40	-101	64	-8	-3	8	67	0.4	12.1	0.4	0.4	9.9	1	

**ASTA NUM. 223** NI 304 NF 305 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-93	25	-5	-3	3	65	0.4	11.1	0.1	0.4	9.1	1	
1	20	-93	22	-5	-3	4	70	0.4	12.1	0.1	0.4	9.8	1	
1	40	-93	19	-5	-3	5	74	0.4	12.9	0.1	0.4	10.5	1	

**ASTA NUM. 224** NI 305 NF 306 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-92	-21	0	-3	4	74	0.4	12.8	0.1	0.4	10.4	1	
1	20	-92	-23	0	-3	4	70	0.4	12.1	0.1	0.4	9.8	1	
1	40	-92	-26	0	-3	4	65	0.4	11.2	0.2	0.4	9.2	1	

**ASTA NUM. 225** NI 306 NF 307 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-98	-65	4	-3	8	66	0.4	11.9	0.4	0.4	9.8	1	
1	20	-98	-68	4	-3	7	52	0.4	9.7	0.4	0.4	8.0	1	
1	40	-98	-70	4	-3	6	39	0.4	7.3	0.4	0.4	6.1	1	

**ASTA NUM. 226** NI 307 NF 308 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-110	-109	5	-3	13	41	0.4	8.7	0.6	0.4	7.3	1	
1	20	-110	-112	5	-3	12	18	0.4	4.9	0.7	0.4	4.3	1	
1	40	-110	-114	5	-3	11	-4	0.4	2.4	0.7	0.4	2.3	1	

**ASTA NUM. 227** NI 308 NF 309 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-126	-163	32	-3	20	-1	0.5	3.4	1.0	0.4	3.2	3	
1	20	-126	-166	32	-3	13	-34	0.5	7.8	1.0	0.4	6.6	1	
1	40	-126	-169	32	-3	7	-68	0.5	12.1	1.0	0.4	10.0	1	

**ASTA NUM. 228** NI 309 NF 44 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-141	-278	176	-3	15	-65	0.6	13.0	1.6	0.4	10.8	1	
1	20	-141	-280	176	-3	-20	-121	0.6	23.0	1.6	0.4	18.6	1	
1	40	-141	-283	176	-3	-55	-177	0.6	37.8	1.7	0.4	30.3	1	

**ASTA NUM. 229** NI 44 NF 310 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-681	338	-239	2	-81	-219	2.7	48.8	2.0	0.3	41.0	1	
1	20	-681	336	-239	2	-33	-152	2.7	30.1	2.0	0.3	26.3	1	
1	40	-681	333	-239	2	15	-85	2.7	16.2	2.0	0.3	15.4	1	

**ASTA NUM. 230** NI 310 NF 311 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-662	204	-47	2	5	-88	2.6	15.0	1.2	0.3	14.4	1	
1	20	-662	201	-47	2	14	-47	2.6	10.0	1.2	0.3	10.4	1	
1	40	-662	199	-47	2	23	-7	2.6	5.0	1.2	0.3	6.5	1	

**ASTA NUM. 231** NI 311 NF 312 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-642	142	-4	2	12	-10	2.5	3.7	0.8	0.3	5.4	1	
1	20	-642	140	-4	2	13	18	2.5	5.1	0.8	0.3	6.5	1	
1	40	-642	137	-4	2	14	46	2.5	9.7	0.8	0.3	10.1	1	

**ASTA NUM. 232** NI 312 NF 313 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-626	98	0	2	5	44	2.4	7.9	0.6	0.3	8.7	1	
1	20	-626	95	0	2	5	63	2.4	11.0	0.6	0.3	11.1	1	
1	40	-626	93	0	2	5	82	2.4	14.1	0.5	0.3	13.5	1	

**ASTA NUM. 233** NI 313 NF 314 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-617	54	2	2	-0	80	2.4	13.1	0.3	0.3	12.7	1	
1	20	-617	51	2	2	-1	91	2.4	14.9	0.3	0.3	14.1	1	
1	40	-617	49	2	2	-1	101	2.4	16.6	0.3	0.3	15.4	1	

**ASTA NUM. 234** NI 314 NF 315 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-617	9	7	2	-1	101	2.4	16.6	0.1	0.3	15.4	1	
1	20	-617	6	7	2	-3	102	2.4	17.0	0.0	0.3	15.8	1	
1	40	-617	4	7	2	-4	103	2.4	17.4	0.0	0.3	16.1	1	

**ASTA NUM. 235** NI 315 NF 316 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-625	-38	15	2	1	104	2.4	17.0	0.2	0.3	15.8	1	
1	20	-625	-41	15	2	-2	96	2.4	16.0	0.2	0.3	15.0	1	
1	40	-625	-43	15	2	-5	88	2.4	15.2	0.3	0.3	14.4	1	

**ASTA NUM. 236** NI 316 NF 317 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-642	-91	39	2	4	90	2.5	15.2	0.5	0.3	14.5	1	
1	20	-642	-94	39	2	-4	71	2.5	12.3	0.5	0.3	12.2	1	
1	40	-642	-96	39	2	-12	52	2.5	10.5	0.6	0.3	10.7	1	

**ASTA NUM. 237** NI 317 NF 318 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-664	-152	82	2	1	55	2.6	9.1	0.9	0.3	9.7	1	
1	20	-664	-155	82	2	-16	25	2.6	6.6	0.9	0.3	7.8	1	
1	40	-664	-157	82	2	-32	-7	2.6	6.3	0.9	0.3	7.6	1	

**ASTA NUM. 238** NI 318 NF 63 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-686	-192	117	2	-20	-4	2.7	3.9	1.1	0.3	5.8	1	
1	20	-686	-194	117	2	-44	-43	2.7	14.0	1.1	0.3	13.7	1	
1	40	-686	-197	117	2	-67	-82	2.7	24.2	1.2	0.3	21.7	1	

**ASTA NUM. 239** NI 16 NF 319 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-112	364	-203	-3	-97	-155	0.4	41.1	2.1	0.4	32.7	1	
1	20	-112	362	-203	-3	-57	-82	0.4	22.7	2.1	0.4	18.2	1	
1	40	-112	359	-203	-3	-16	-10	0.4	4.3	2.1	0.4	3.8	3	

**ASTA NUM. 240** NI 319 NF 320 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-114	272	-87	-3	-38	-22	0.4	9.7	1.6	0.4	8.0	1	
1	20	-114	269	-87	-3	-20	32	0.4	8.5	1.6	0.4	7.2	1	
1	40	-114	266	-87	-3	-3	86	0.4	14.4	1.6	0.4	11.8	1	

**ASTA NUM. 241** NI 320 NF 321 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-116	169	-32	-3	-25	74	0.5	16.2	1.0	0.4	13.2	1	
1	20	-116	167	-32	-3	-19	108	0.5	20.6	1.0	0.4	16.7	1	
1	40	-116	164	-32	-3	-13	141	0.5	25.0	1.0	0.4	20.1	1	

**ASTA NUM. 242** NI 321 NF 322 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-117	85	-18	-3	-30	132	0.5	26.3	0.5	0.4	21.1	1	
1	20	-117	82	-18	-3	-26	149	0.5	28.5	0.5	0.4	22.8	1	
1	40	-117	80	-18	-3	-22	165	0.5	30.5	0.5	0.4	24.4	1	

**ASTA NUM. 243** NI 322 NF 323 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-118	4	-13	-3	-31	161	0.5	31.2	0.1	0.4	25.0	1	
1	20	-118	2	-13	-3	-29	161	0.5	30.9	0.1	0.4	24.7	1	
1	40	-118	-1	-13	-3	-26	161	0.5	30.5	0.1	0.4	24.4	1	

**ASTA NUM. 244** NI 323 NF 324 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-118	-76	-9	-3	-26	161	0.5	30.5	0.4	0.4	24.4	1	
1	20	-118	-79	-9	-3	-24	146	0.5	27.7	0.5	0.4	22.2	1	
1	40	-118	-81	-9	-3	-23	130	0.5	24.8	0.5	0.4	20.0	1	



**ASTA NUM. 245** NI 324 NF 325 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-119	-156	-6	-3	-15	134	0.5	24.2	0.9	0.4	19.5	1		
1	20	-119	-159	-6	-3	-13	103	0.5	18.9	0.9	0.4	15.3	1		
1	40	-119	-161	-6	-3	-12	71	0.5	13.5	0.9	0.4	11.1	1		

**ASTA NUM. 246** NI 325 NF 326 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-119	-237	-1	-3	2	79	0.5	13.2	1.4	0.4	10.8	1		
1	20	-119	-239	-1	-3	3	31	0.5	5.5	1.4	0.4	4.8	1		
1	40	-119	-242	-1	-3	3	-17	0.5	3.3	1.4	0.4	3.1	1		

**ASTA NUM. 247** NI 326 NF 327 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-118	-325	20	-3	21	-8	0.5	4.7	1.9	0.4	4.1	3		
1	20	-118	-327	20	-3	17	-73	0.5	14.6	1.9	0.4	12.0	1		
1	40	-118	-330	20	-3	13	-139	0.5	24.7	1.9	0.4	19.8	1		

**ASTA NUM. 248** NI 327 NF 23 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-115	-433	38	-3	29	-131	0.5	25.9	2.5	0.4	20.8	1		
1	20	-115	-435	38	-3	21	-217	0.5	38.8	2.6	0.4	30.9	1		
1	40	-115	-438	38	-3	13	-305	0.5	51.7	2.6	0.4	41.1	1		

ASTA NUM. 249 NI 23 NF 328 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	-104	401	-50	-0	5	-277	0.4	46.0	2.4	0.0	36.6	1	
1	20	-104	399	-50	-0	15	-197	0.4	34.6	2.3	0.0	27.6	1	
1	40	-104	396	-50	-0	25	-118	0.4	23.3	2.3	0.0	18.7	1	

ASTA NUM. 250 NI 328 NF 329 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	-107	291	-25	-0	10	-125	0.4	22.0	1.7	0.0	17.7	1	
1	20	-107	288	-25	-0	15	-67	0.4	13.4	1.7	0.0	10.9	1	
1	40	-107	286	-25	-0	20	-9	0.4	4.9	1.7	0.0	4.2	1	

ASTA NUM. 251 NI 329 NF 330 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	-108	205	-8	-0	3	-18	0.4	3.4	1.2	0.0	3.1	1	
1	20	-108	202	-8	-0	5	23	0.4	4.5	1.2	0.0	3.9	1	
1	40	-108	200	-8	-0	6	63	0.4	11.3	1.2	0.0	9.3	1	

ASTA NUM. 252 NI 330 NF 331 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	-109	125	-6	-0	-8	56	0.4	10.3	0.7	0.0	8.5	1	
1	20	-109	123	-6	-0	-7	81	0.4	14.2	0.7	0.0	11.6	1	
1	40	-109	120	-6	-0	-5	105	0.4	17.9	0.7	0.0	14.5	1	

**ASTA NUM. 253** NI 331 NF 332 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-110	46	-4	-0	-14	101	0.4	18.6	0.3	0.0	15.0	1	
1	20	-110	43	-4	-0	-13	109	0.4	19.9	0.3	0.0	16.1	1	
1	40	-110	40	-4	-0	-12	118	0.4	21.1	0.2	0.0	17.0	1	

**ASTA NUM. 254** NI 332 NF 333 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-110	-35	0	-0	-13	117	0.4	21.2	0.2	0.0	17.1	1	
1	20	-110	-37	0	-0	-13	110	0.4	20.0	0.2	0.0	16.2	1	
1	40	-110	-40	0	-0	-13	102	0.4	18.8	0.2	0.0	15.2	1	

**ASTA NUM. 255** NI 333 NF 334 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-111	-114	2	-0	-6	106	0.4	18.2	0.7	0.0	14.7	1	
1	20	-111	-117	2	-0	-7	82	0.4	14.5	0.7	0.0	11.8	1	
1	40	-111	-119	2	-0	-7	59	0.4	10.8	0.7	0.0	8.9	1	

**ASTA NUM. 256** NI 334 NF 335 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-111	-194	4	-0	5	65	0.4	11.4	1.1	0.0	9.4	1	
1	20	-111	-196	4	-0	5	26	0.4	5.0	1.1	0.0	4.3	1	
1	40	-111	-199	4	-0	4	-14	0.4	2.8	1.2	0.0	2.7	1	

**ASTA NUM. 257** NI 335 NF 336 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-111	-279	20	-0	20	-6	0.4	4.2	1.6	0.0	3.7	3	
1	20	-111	-282	20	-0	16	-62	0.4	12.7	1.7	0.0	10.4	1	
1	40	-111	-284	20	-0	12	-119	0.4	21.2	1.7	0.0	17.1	1	

**ASTA NUM. 258** NI 336 NF 42 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-109	-395	56	-0	26	-112	0.4	22.4	2.3	0.0	18.0	1	
1	20	-109	-397	56	-0	15	-191	0.4	33.5	2.3	0.0	26.7	1	
1	40	-109	-400	56	-0	4	-271	0.4	44.7	2.3	0.0	35.5	1	

**ASTA NUM. 259** NI 42 NF 337 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-122	432	-35	3	11	-297	0.5	50.0	2.5	0.4	39.8	1	
1	20	-122	429	-35	3	17	-210	0.5	37.1	2.5	0.4	29.6	1	
1	40	-122	427	-35	3	24	-125	0.5	24.3	2.5	0.4	19.6	1	

**ASTA NUM. 260** NI 337 NF 338 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-125	328	-26	3	8	-133	0.5	23.1	1.9	0.4	18.6	1	
1	20	-125	325	-26	3	14	-68	0.5	13.3	1.9	0.4	10.9	1	
1	40	-125	323	-26	3	19	-3	0.5	3.6	1.9	0.4	3.3	3	

**ASTA NUM. 261** NI 338 NF 339 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-128	239	-3	3	0	-13	0.5	2.1	1.4	0.4	2.1	3	
1	20	-128	237	-3	3	1	35	0.5	5.8	1.4	0.4	5.0	1	
1	40	-128	234	-3	3	1	82	0.5	13.5	1.4	0.4	11.1	1	

**ASTA NUM. 262** NI 339 NF 340 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-129	158	3	3	-14	74	0.5	14.3	0.9	0.4	11.8	1	
1	20	-129	156	3	3	-15	105	0.5	19.5	0.9	0.4	15.8	1	
1	40	-129	153	3	3	-15	136	0.5	24.6	0.9	0.4	19.9	1	

**ASTA NUM. 263** NI 340 NF 341 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-129	78	5	3	-24	132	0.5	25.3	0.5	0.4	20.4	1	
1	20	-129	76	5	3	-25	147	0.5	28.0	0.4	0.4	22.5	1	
1	40	-129	73	5	3	-26	162	0.5	30.6	0.4	0.4	24.6	1	

**ASTA NUM. 264** NI 341 NF 342 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-130	-2	10	3	-27	162	0.5	30.7	0.1	0.4	24.6	1	
1	20	-130	-5	10	3	-29	161	0.5	30.9	0.1	0.4	24.8	1	
1	40	-130	-7	10	3	-31	160	0.5	31.0	0.1	0.4	24.9	1	

**ASTA NUM. 265** NI 342 NF 343 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-130	-83	15	3	-22	164	0.5	30.4	0.5	0.4	24.4	1	
1	20	-130	-86	15	3	-25	148	0.5	28.1	0.5	0.4	22.6	1	
1	40	-130	-88	15	3	-28	130	0.5	25.8	0.5	0.4	20.8	1	

**ASTA NUM. 266** NI 343 NF 344 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-129	-167	27	3	-12	139	0.5	24.6	1.0	0.4	19.8	1	
1	20	-129	-169	27	3	-18	105	0.5	20.0	1.0	0.4	16.2	1	
1	40	-129	-172	27	3	-23	71	0.5	15.3	1.0	0.4	12.5	1	

**ASTA NUM. 267** NI 344 NF 345 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-129	-269	82	3	-1	83	0.5	13.6	1.6	0.4	11.2	1	
1	20	-129	-271	82	3	-17	29	0.5	7.5	1.6	0.4	6.4	1	
1	40	-129	-274	82	3	-34	-26	0.5	9.7	1.6	0.4	8.1	1	

**ASTA NUM. 268** NI 345 NF 61 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-129	-367	212	3	-12	-14	0.5	4.4	2.2	0.4	3.9	3	
1	20	-129	-370	212	3	-55	-88	0.5	23.3	2.2	0.4	18.8	1	
1	40	-129	-372	212	3	-97	-162	0.5	42.3	2.2	0.4	33.7	1	

**ASTA NUM. 269** NI 17 NF 346 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	187	367	-203	1	-88	-157	0.7	39.8	2.2	0.2	30.6	1	
1	20	187	364	-203	1	-47	-84	0.7	21.3	2.1	0.2	16.7	1	
1	40	187	362	-203	1	-7	-11	0.7	2.9	2.1	0.2	2.9	3	

**ASTA NUM. 270** NI 346 NF 347 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	180	258	-47	1	-24	-21	0.7	7.4	1.5	0.2	6.2	1	
1	20	180	255	-47	1	-14	30	0.7	7.2	1.5	0.2	6.1	1	
1	40	180	253	-47	1	-5	81	0.7	13.9	1.5	0.2	11.2	1	

**ASTA NUM. 271** NI 347 NF 348 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	174	166	-16	1	-23	70	0.7	15.2	1.0	0.2	12.1	1	
1	20	174	163	-16	1	-20	103	0.7	20.1	1.0	0.2	15.7	1	
1	40	174	161	-16	1	-17	136	0.7	24.8	0.9	0.2	19.3	1	

**ASTA NUM. 272** NI 348 NF 349 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	168	87	-15	1	-30	129	0.7	25.8	0.5	0.2	20.0	1	
1	20	168	84	-15	1	-27	146	0.7	28.1	0.5	0.2	21.7	1	
1	40	168	82	-15	1	-24	162	0.7	30.3	0.5	0.2	23.4	1	

**ASTA NUM. 273** NI 349 NF 350 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	164	6	-9	1	-30	159	0.6	30.8	0.1	0.2	23.7	1	
1	20	164	3	-9	1	-28	160	0.6	30.6	0.1	0.2	23.6	1	
1	40	164	1	-9	1	-27	160	0.6	30.4	0.1	0.2	23.4	1	

**ASTA NUM. 274** NI 350 NF 351 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	160	-76	-1	1	-25	161	0.6	30.2	0.4	0.2	23.3	1	
1	20	160	-79	-1	1	-24	146	0.6	27.7	0.5	0.2	21.4	1	
1	40	160	-82	-1	1	-24	130	0.6	25.0	0.5	0.2	19.4	1	

**ASTA NUM. 275** NI 351 NF 352 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	156	-158	6	1	-14	135	0.6	24.3	0.9	0.2	18.8	1	
1	20	156	-161	6	1	-15	103	0.6	19.3	0.9	0.2	15.1	1	
1	40	156	-163	6	1	-16	71	0.6	14.2	1.0	0.2	11.2	1	

**ASTA NUM. 276** NI 352 NF 353 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	154	-238	9	1	-0	79	0.6	13.0	1.4	0.2	10.3	1	
1	20	154	-241	9	1	-2	31	0.6	5.5	1.4	0.2	4.7	1	
1	40	154	-243	9	1	-4	-17	0.6	3.4	1.4	0.2	3.1	1	



**ASTA NUM. 277** NI 353 NF 354 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	152	-317	8	1	14	-7	0.6	3.5	1.9	0.2	3.2	3	
1	20	152	-319	8	1	13	-71	0.6	13.6	1.9	0.2	10.8	1	
1	40	152	-322	8	1	11	-135	0.6	23.8	1.9	0.2	18.4	1	

**ASTA NUM. 278** NI 354 NF 22 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	152	-419	12	1	25	-127	0.6	24.8	2.5	0.2	19.2	1	
1	20	152	-421	12	1	23	-211	0.6	38.1	2.5	0.2	29.2	1	
1	40	152	-424	12	1	21	-296	0.6	51.5	2.5	0.2	39.2	1	

**ASTA NUM. 279** NI 22 NF 355 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	59	363	41	1	37	-263	0.2	48.9	2.1	0.1	36.9	1	
1	20	59	360	41	1	29	-191	0.2	35.8	2.1	0.1	27.1	1	
1	40	59	357	41	1	21	-119	0.2	22.8	2.1	0.1	17.3	1	

**ASTA NUM. 280** NI 355 NF 356 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	55	283	-8	1	9	-125	0.2	21.8	1.7	0.1	16.6	1	
1	20	55	280	-8	1	11	-68	0.2	12.9	1.6	0.1	9.9	1	
1	40	55	278	-8	1	13	-13	0.2	4.1	1.6	0.1	3.3	1	

ASTA NUM. 281 NI 356 NF 357 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	53	207	-16	1	-3	-20	0.2	3.7	1.2	0.1	3.0	1	
1	20	53	205	-16	1	0	21	0.2	3.5	1.2	0.1	2.8	1	
1	40	53	202	-16	1	3	62	0.2	10.6	1.2	0.1	8.2	1	

ASTA NUM. 282 NI 357 NF 358 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	53	127	-11	1	-10	55	0.2	10.7	0.7	0.1	8.2	1	
1	20	53	124	-11	1	-8	81	0.2	14.4	0.7	0.1	11.0	1	
1	40	53	122	-11	1	-6	105	0.2	18.1	0.7	0.1	13.7	1	

ASTA NUM. 283 NI 358 NF 359 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	53	45	-5	1	-14	101	0.2	18.7	0.3	0.1	14.2	1	
1	20	53	43	-5	1	-13	110	0.2	20.0	0.3	0.1	15.2	1	
1	40	53	40	-5	1	-12	118	0.2	21.2	0.2	0.1	16.1	1	

ASTA NUM. 284 NI 359 NF 360 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	52	-36	2	1	-12	118	0.2	21.3	0.2	0.1	16.1	1	
1	20	52	-39	2	1	-13	111	0.2	20.1	0.2	0.1	15.3	1	
1	40	52	-41	2	1	-13	103	0.2	18.9	0.2	0.1	14.4	1	

**ASTA NUM. 285** NI 360 NF 361 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	53	-118	8	1	-6	106	0.2	18.3	0.7	0.1	13.9	1	
1	20	53	-120	8	1	-8	82	0.2	14.7	0.7	0.1	11.2	1	
1	40	53	-123	8	1	-10	58	0.2	11.0	0.7	0.1	8.5	1	

**ASTA NUM. 286** NI 361 NF 362 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	53	-198	13	1	3	64	0.2	10.9	1.2	0.1	8.4	1	
1	20	53	-201	13	1	0	24	0.2	4.0	1.2	0.1	3.2	1	
1	40	53	-203	13	1	-2	-16	0.2	3.0	1.2	0.1	2.5	1	

**ASTA NUM. 287** NI 362 NF 363 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	55	-275	8	1	13	-9	0.2	3.6	1.6	0.1	2.9	1	
1	20	55	-277	8	1	11	-64	0.2	12.3	1.6	0.1	9.4	1	
1	40	55	-280	8	1	10	-120	0.2	21.1	1.6	0.1	16.0	1	

**ASTA NUM. 288** NI 363 NF 41 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	58	-357	-35	1	21	-115	0.2	22.1	2.1	0.1	16.8	1	
1	20	58	-360	-35	1	28	-187	0.2	34.9	2.1	0.1	26.4	1	
1	40	58	-362	-35	1	35	-259	0.2	47.8	2.1	0.1	36.1	1	

**ASTA NUM. 289** NI 41 NF 364 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	156	419	-5	-3	22	-291	0.6	51.0	2.5	0.3	38.8	1	
1	20	156	417	-5	-3	23	-208	0.6	37.5	2.4	0.3	28.7	1	
1	40	156	414	-5	-3	24	-125	0.6	24.2	2.4	0.3	18.7	1	

**ASTA NUM. 290** NI 364 NF 365 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	156	320	-7	-3	10	-132	0.6	23.1	1.9	0.3	18.0	1	
1	20	156	317	-7	-3	11	-69	0.6	13.0	1.9	0.3	10.4	1	
1	40	156	315	-7	-3	13	-5	0.6	2.9	1.8	0.3	2.8	3	

**ASTA NUM. 291** NI 365 NF 366 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	157	242	-10	-3	-6	-15	0.6	3.4	1.4	0.3	3.1	1	
1	20	157	240	-10	-3	-4	33	0.6	6.0	1.4	0.3	5.1	1	
1	40	157	237	-10	-3	-1	81	0.6	13.4	1.4	0.3	10.7	1	

**ASTA NUM. 292** NI 366 NF 367 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	160	162	-7	-3	-17	72	0.6	14.6	1.0	0.3	11.6	1	
1	20	160	160	-7	-3	-16	105	0.6	19.6	0.9	0.3	15.3	1	
1	40	160	157	-7	-3	-15	136	0.6	24.6	0.9	0.3	19.0	1	

**ASTA NUM. 293** NI 367 NF 368 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	163	81	0	-3	-25	131	0.6	25.3	0.5	0.3	19.6	1		
1	20	163	78	0	-3	-25	147	0.6	27.9	0.5	0.3	21.6	1		
1	40	163	75	0	-3	-25	162	0.6	30.4	0.4	0.3	23.4	1		

**ASTA NUM. 294** NI 368 NF 369 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	167	-2	8	-3	-27	161	0.7	30.6	0.0	0.3	23.6	1		
1	20	167	-4	8	-3	-29	160	0.7	30.7	0.0	0.3	23.7	1		
1	40	167	-7	8	-3	-30	159	0.7	30.8	0.0	0.3	23.8	1		

**ASTA NUM. 295** NI 369 NF 370 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	171	-83	13	-3	-24	162	0.7	30.4	0.5	0.3	23.4	1		
1	20	171	-85	13	-3	-27	146	0.7	28.1	0.5	0.3	21.7	1		
1	40	171	-88	13	-3	-29	128	0.7	25.7	0.5	0.3	19.9	1		

**ASTA NUM. 296** NI 370 NF 371 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	177	-162	14	-3	-16	136	0.7	24.7	0.9	0.3	19.2	1		
1	20	177	-164	14	-3	-19	103	0.7	19.9	1.0	0.3	15.6	1		
1	40	177	-167	14	-3	-22	70	0.7	15.0	1.0	0.3	11.9	1		

**ASTA NUM. 297** NI 371 NF 372 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	183	-255	48	-3	-4	80	0.7	13.7	1.5	0.3	11.0	1	
1	20	183	-257	48	-3	-13	29	0.7	6.9	1.5	0.3	5.9	1	
1	40	183	-260	48	-3	-23	-22	0.7	7.4	1.5	0.3	6.3	1	

**ASTA NUM. 298** NI 372 NF 60 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	190	-367	212	-3	-5	-12	0.7	2.8	2.2	0.3	2.9	3	
1	20	190	-370	212	-3	-48	-86	0.7	21.7	2.2	0.3	17.0	1	
1	40	190	-372	212	-3	-90	-160	0.7	40.7	2.2	0.3	31.3	1	

**ASTA NUM. 299** NI 13 NF 373 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-581	-157	11	-1	5	50	2.3	8.9	0.9	0.1	9.3	1	
1	20	-581	-160	11	-1	2	19	2.3	3.4	0.9	0.1	5.0	1	
1	40	-581	-163	11	-1	0	-14	2.3	2.3	1.0	0.1	4.1	1	

**ASTA NUM. 300** NI 373 NF 374 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-610	81	2	-1	1	-15	2.4	2.5	0.5	0.1	4.3	1	
1	20	-610	78	2	-1	0	1	2.4	0.3	0.5	0.1	2.6	1	
1	40	-610	76	2	-1	-0	17	2.4	2.7	0.4	0.1	4.5	1	

**ASTA NUM. 301** NI 374 NF 375 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-641	122	1	-1	0	15	2.5	2.4	0.7	0.1	4.4	1	
1	20	-641	120	1	-1	0	39	2.5	6.3	0.7	0.1	7.5	2	
1	40	-641	117	1	-1	-0	63	2.5	10.2	0.7	0.1	10.5	1	

**ASTA NUM. 302** NI 375 NF 376 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-663	81	1	-1	0	61	2.6	9.9	0.5	0.1	10.4	1	
1	20	-663	78	1	-1	-0	77	2.6	12.5	0.5	0.1	12.4	1	
1	40	-663	76	1	-1	-0	92	2.6	15.0	0.4	0.1	14.4	1	

**ASTA NUM. 303** NI 376 NF 377 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-672	22	1	-1	-0	91	2.6	14.8	0.1	0.1	14.3	1	
1	20	-672	19	1	-1	-0	95	2.6	15.5	0.1	0.1	14.8	1	
1	40	-672	17	1	-1	-0	99	2.6	16.1	0.1	0.1	15.3	1	

**ASTA NUM. 304** NI 377 NF 378 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-664	-38	1	-1	-0	100	2.6	16.3	0.2	0.1	15.4	1	
1	20	-664	-40	1	-1	-0	92	2.6	15.0	0.2	0.1	14.4	1	
1	40	-664	-43	1	-1	-0	84	2.6	13.7	0.3	0.1	13.3	1	

**ASTA NUM. 305** NI 378 NF 379 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-641	-102	0	-1	-0	87	2.5	14.2	0.6	0.1	13.6	1	
1	20	-641	-105	0	-1	-0	66	2.5	10.8	0.6	0.1	11.0	1	
1	40	-641	-107	0	-1	-0	45	2.5	7.3	0.6	0.1	8.3	1	

**ASTA NUM. 306** NI 379 NF 380 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-606	-167	-0	-1	-0	49	2.4	8.1	1.0	0.1	8.7	1	
1	20	-606	-169	-0	-1	-0	16	2.4	2.6	1.0	0.1	4.4	1	
1	40	-606	-172	-0	-1	-0	-18	2.4	3.0	1.0	0.1	4.7	1	

**ASTA NUM. 307** NI 380 NF 381 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-567	-193	-1	-1	-0	-14	2.2	2.2	1.1	0.1	4.0	1	
1	20	-567	-195	-1	-1	0	-52	2.2	8.5	1.1	0.1	8.9	1	
1	40	-567	-198	-1	-1	0	-92	2.2	14.9	1.2	0.1	14.0	1	

**ASTA NUM. 308** NI 381 NF 26 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-538	-136	-4	-1	0	-89	2.1	14.4	0.8	0.1	13.4	1	
1	20	-538	-138	-4	-1	1	-116	2.1	19.0	0.8	0.1	17.0	1	
1	40	-538	-141	-4	-1	2	-144	2.1	23.7	0.8	0.1	20.7	1	



**ASTA NUM. 309** NI 26 NF 382 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-377	186	-2	1	-1	-164	1.5	26.8	1.1	0.1	22.5	1	
1	20	-377	183	-2	1	-0	-127	1.5	20.7	1.1	0.1	17.8	1	
1	40	-377	181	-2	1	0	-91	1.5	14.8	1.1	0.1	13.1	1	

**ASTA NUM. 310** NI 382 NF 383 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-397	204	0	1	-0	-94	1.6	15.3	1.2	0.1	13.6	1	
1	20	-397	201	0	1	-0	-54	1.6	8.8	1.2	0.1	8.4	1	
1	40	-397	199	0	1	-0	-14	1.6	2.2	1.2	0.1	3.3	1	

**ASTA NUM. 311** NI 383 NF 384 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-426	166	0	1	-0	-19	1.7	3.1	1.0	0.1	4.1	1	
1	20	-426	163	0	1	-0	14	1.7	2.3	1.0	0.1	3.5	1	
1	40	-426	161	0	1	-0	46	1.7	7.6	0.9	0.1	7.6	1	

**ASTA NUM. 312** NI 384 NF 385 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-453	99	-0	1	-0	41	1.8	6.8	0.6	0.1	7.1	1	
1	20	-453	97	-0	1	-0	61	1.8	10.0	0.6	0.1	9.6	1	
1	40	-453	94	-0	1	-0	80	1.8	13.1	0.6	0.1	12.0	1	

ASTA NUM. 313 NI 385 NF 386 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-468	35	-0	1	-0	77	1.8	12.6	0.2	0.1	11.7	1		
1	20	-468	32	-0	1	-0	84	1.8	13.7	0.2	0.1	12.6	1		
1	40	-468	29	-0	1	-0	90	1.8	14.7	0.2	0.1	13.4	1		

ASTA NUM. 314 NI 386 NF 387 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-469	-26	-0	1	-0	90	1.8	14.7	0.2	0.1	13.4	1		
1	20	-469	-29	-0	1	-0	84	1.8	13.8	0.2	0.1	12.7	1		
1	40	-469	-31	-0	1	-0	78	1.8	12.8	0.2	0.1	11.9	1		

ASTA NUM. 315 NI 387 NF 388 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-455	-91	-1	1	-0	81	1.8	13.2	0.5	0.1	12.1	1		
1	20	-455	-93	-1	1	-0	63	1.8	10.2	0.5	0.1	9.8	1		
1	40	-455	-96	-1	1	0	44	1.8	7.1	0.6	0.1	7.4	1		

ASTA NUM. 316 NI 388 NF 389 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-431	-158	-1	1	0	48	1.7	7.9	0.9	0.1	7.9	1		
1	20	-431	-161	-1	1	0	16	1.7	2.7	0.9	0.1	3.8	1		
1	40	-431	-163	-1	1	0	-16	1.7	2.7	1.0	0.1	3.8	1		

ASTA NUM. 317 NI 389 NF 390 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-402	-199	1	1	0	-11	1.6	1.9	1.2	0.1	3.0	1	
1	20	-402	-202	1	1	0	-51	1.6	8.4	1.2	0.1	8.1	1	
1	40	-402	-204	1	1	0	-92	1.6	15.0	1.2	0.1	13.3	1	

ASTA NUM. 318 NI 390 NF 45 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-383	-184	3	1	0	-88	1.5	14.4	1.1	0.1	12.8	1	
1	20	-383	-186	3	1	-0	-125	1.5	20.4	1.1	0.1	17.6	1	
1	40	-383	-189	3	1	-1	-163	1.5	26.6	1.1	0.1	22.4	1	

ASTA NUM. 319 NI 45 NF 391 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-547	131	6	1	3	-141	2.1	23.4	0.8	0.1	20.5	1	
1	20	-547	128	6	1	2	-115	2.1	19.0	0.7	0.1	17.1	1	
1	40	-547	125	6	1	1	-90	2.1	14.7	0.7	0.1	13.7	1	

ASTA NUM. 320 NI 391 NF 392 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-576	195	3	1	1	-93	2.2	15.2	1.1	0.1	14.2	1	
1	20	-576	193	3	1	0	-54	2.2	8.8	1.1	0.1	9.2	1	
1	40	-576	190	3	1	-0	-16	2.2	2.6	1.1	0.1	4.3	1	

**ASTA NUM. 321** NI 392 NF 393 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-615	174	1	1	-0	-20	2.4	3.3	1.0	0.1	5.0	2	
1	20	-615	171	1	1	-0	14	2.4	2.3	1.0	0.1	4.2	1	
1	40	-615	169	1	1	-1	48	2.4	7.9	1.0	0.1	8.6	1	

**ASTA NUM. 322** NI 393 NF 394 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-650	111	1	1	-0	43	2.5	7.1	0.6	0.1	8.1	1	
1	20	-650	108	1	1	-0	65	2.5	10.6	0.6	0.1	10.9	1	
1	40	-650	105	1	1	-1	86	2.5	14.1	0.6	0.1	13.6	1	

**ASTA NUM. 323** NI 394 NF 395 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-675	46	0	1	-0	83	2.6	13.5	0.3	0.1	13.3	1	
1	20	-675	43	0	1	-0	92	2.6	15.0	0.3	0.1	14.4	1	
1	40	-675	41	0	1	-0	100	2.6	16.4	0.2	0.1	15.5	1	

**ASTA NUM. 324** NI 395 NF 396 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-683	-14	0	1	-0	99	2.7	16.2	0.1	0.1	15.4	1	
1	20	-683	-16	0	1	-0	96	2.7	15.7	0.1	0.1	15.0	1	
1	40	-683	-19	0	1	-0	92	2.7	15.1	0.1	0.1	14.5	1	

**ASTA NUM. 325** NI 396 NF 397 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-675	-72	0	1	-0	93	2.6	15.2	0.4	0.1	14.6	1	
1	20	-675	-74	0	1	-0	78	2.6	12.8	0.4	0.1	12.7	1	
1	40	-675	-77	0	1	-0	63	2.6	10.4	0.5	0.1	10.8	1	

**ASTA NUM. 326** NI 397 NF 398 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-653	-115	0	1	-0	65	2.6	10.6	0.7	0.1	10.9	1	
1	20	-653	-117	0	1	-0	42	2.6	6.9	0.7	0.1	7.9	1	
1	40	-653	-120	0	1	-0	18	2.6	3.0	0.7	0.1	4.9	1	

**ASTA NUM. 327** NI 398 NF 399 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-623	-79	-2	1	-1	20	2.4	3.3	0.5	0.1	5.1	1	
1	20	-623	-81	-2	1	-0	4	2.4	0.7	0.5	0.1	3.0	1	
1	40	-623	-84	-2	1	0	-13	2.4	2.1	0.5	0.1	4.1	1	

**ASTA NUM. 328** NI 399 NF 64 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-593	152	-13	1	-0	-12	2.3	1.9	0.9	0.1	3.8	1	
1	20	-593	149	-13	1	2	18	2.3	3.4	0.9	0.1	5.0	1	
1	40	-593	147	-13	1	5	48	2.3	8.6	0.9	0.1	9.1	1	

**ASTA NUM. 329** NI 19 NF 400 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	166	343	211	-2	98	-132	0.6	37.5	2.0	0.3	28.7	1	
1	20	166	340	211	-2	56	-64	0.6	19.5	2.0	0.3	15.2	1	
1	40	166	338	211	-2	13	4	0.6	2.8	2.0	0.3	2.7	3	

**ASTA NUM. 330** NI 400 NF 401 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	160	237	55	-2	31	-6	0.6	6.0	1.4	0.3	5.1	1	
1	20	160	235	55	-2	20	41	0.6	9.8	1.4	0.3	8.0	1	
1	40	160	232	55	-2	8	88	0.6	15.6	1.4	0.3	12.3	1	

**ASTA NUM. 331** NI 401 NF 402 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	154	152	24	-2	27	77	0.6	17.0	0.9	0.3	13.3	1	
1	20	154	150	24	-2	22	108	0.6	21.1	0.9	0.3	16.4	1	
1	40	154	147	24	-2	17	137	0.6	25.1	0.9	0.3	19.5	1	

**ASTA NUM. 332** NI 402 NF 403 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	150	79	20	-2	31	130	0.6	26.2	0.5	0.3	20.2	1	
1	20	150	76	20	-2	27	145	0.6	28.0	0.4	0.3	21.6	1	
1	40	150	74	20	-2	23	160	0.6	29.8	0.4	0.3	23.0	1	

**ASTA NUM. 333** NI 403 NF 404 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	146	3	11	-2	29	157	0.6	30.3	0.1	0.3	23.3	1	
1	20	146	1	11	-2	27	157	0.6	30.0	0.1	0.3	23.1	1	
1	40	146	-2	11	-2	25	157	0.6	29.6	0.1	0.3	22.8	1	

**ASTA NUM. 334** NI 404 NF 405 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	143	-73	-0	-2	23	158	0.6	29.4	0.4	0.3	22.6	1	
1	20	143	-76	-0	-2	23	143	0.6	27.0	0.4	0.3	20.8	1	
1	40	143	-78	-0	-2	23	128	0.6	24.5	0.5	0.3	18.9	1	

**ASTA NUM. 335** NI 405 NF 406 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	140	-149	-10	-2	13	133	0.5	23.7	0.9	0.3	18.3	1	
1	20	140	-152	-10	-2	15	103	0.5	19.1	0.9	0.3	14.9	1	
1	40	140	-154	-10	-2	17	72	0.5	14.5	0.9	0.3	11.4	1	

**ASTA NUM. 336** NI 406 NF 407 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	137	-223	-16	-2	0	81	0.5	13.2	1.3	0.3	10.4	1	
1	20	137	-226	-16	-2	4	36	0.5	6.4	1.3	0.3	5.3	1	
1	40	137	-229	-16	-2	7	-10	0.5	2.7	1.3	0.3	2.6	3	

**ASTA NUM. 337** NI 407 NF 408 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	136	-296	-19	-2	-12	-0	0.5	2.0	1.7	0.3	2.0	3	
1	20	136	-299	-19	-2	-8	-60	0.5	11.1	1.7	0.3	8.8	1	
1	40	136	-301	-19	-2	-4	-120	0.5	20.2	1.8	0.3	15.7	1	

**ASTA NUM. 338** NI 408 NF 20 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	137	-400	-21	-2	-19	-112	0.5	21.4	2.3	0.3	16.6	1	
1	20	137	-403	-21	-2	-15	-193	0.5	33.8	2.4	0.3	25.8	1	
1	40	137	-406	-21	-2	-11	-273	0.5	46.2	2.4	0.3	35.2	1	

**ASTA NUM. 339** NI 20 NF 409 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	57	345	-28	0	-30	-250	0.2	45.6	2.0	0.0	34.4	1	
1	20	57	343	-28	0	-24	-181	0.2	33.4	2.0	0.0	25.3	1	
1	40	57	340	-28	0	-18	-113	0.2	21.4	2.0	0.0	16.3	1	

**ASTA NUM. 340** NI 409 NF 410 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	54	262	18	0	-7	-119	0.2	20.4	1.5	0.0	15.5	1	
1	20	54	259	18	0	-10	-67	0.2	12.5	1.5	0.0	9.6	1	
1	40	54	256	18	0	-14	-15	0.2	4.7	1.5	0.0	3.8	1	



**ASTA NUM. 341** NI 410 NF 411 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	52	192	23	0	2	-23	0.2	3.9	1.1	0.0	3.2	1	
1	20	52	189	23	0	-3	16	0.2	3.0	1.1	0.0	2.5	1	
1	40	52	187	23	0	-7	53	0.2	9.9	1.1	0.0	7.6	1	

**ASTA NUM. 342** NI 411 NF 412 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	51	117	15	0	6	47	0.2	8.6	0.7	0.0	6.7	1	
1	20	51	114	15	0	3	70	0.2	11.9	0.7	0.0	9.1	1	
1	40	51	112	15	0	0	93	0.2	15.1	0.7	0.0	11.5	2	

**ASTA NUM. 343** NI 412 NF 413 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	51	41	6	0	8	89	0.2	15.8	0.2	0.0	12.0	1	
1	20	51	39	6	0	7	97	0.2	16.9	0.2	0.0	12.8	1	
1	40	51	36	6	0	5	104	0.2	17.9	0.2	0.0	13.6	1	

**ASTA NUM. 344** NI 413 NF 414 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	51	-34	-4	0	6	104	0.2	17.9	0.2	0.0	13.6	1	
1	20	51	-37	-4	0	7	97	0.2	16.9	0.2	0.0	12.9	1	
1	40	51	-40	-4	0	7	89	0.2	15.8	0.2	0.0	12.0	1	

**ASTA NUM. 345** NI 414 NF 415 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	51	-110	-13	0	0	93	0.2	15.2	0.6	0.0	11.6	1	
1	20	51	-113	-13	0	3	71	0.2	12.0	0.7	0.0	9.2	1	
1	40	51	-115	-13	0	6	48	0.2	8.7	0.7	0.0	6.7	1	

**ASTA NUM. 346** NI 415 NF 416 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	52	-185	-20	0	-7	54	0.2	9.9	1.1	0.0	7.7	1	
1	20	52	-188	-20	0	-3	17	0.2	3.2	1.1	0.0	2.6	1	
1	40	52	-190	-20	0	1	-21	0.2	3.6	1.1	0.0	2.9	1	

**ASTA NUM. 347** NI 416 NF 417 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	53	-255	-16	0	-14	-14	0.2	4.6	1.5	0.0	3.6	1	
1	20	53	-257	-16	0	-11	-65	0.2	12.4	1.5	0.0	9.5	1	
1	40	53	-260	-16	0	-8	-117	0.2	20.3	1.5	0.0	15.4	1	

**ASTA NUM. 348** NI 417 NF 39 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	56	-339	30	0	-19	-112	0.2	21.2	2.0	0.0	16.1	1	
1	20	56	-341	30	0	-25	-180	0.2	33.3	2.0	0.0	25.2	1	
1	40	56	-344	30	0	-31	-248	0.2	45.4	2.0	0.0	34.3	1	

**ASTA NUM. 349** NI 39 NF 418 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	141	406	23	4	-8	-273	0.5	45.8	2.4	0.5	34.9	1	
1	20	141	403	23	4	-13	-192	0.5	33.4	2.4	0.5	25.6	1	
1	40	141	401	23	4	-18	-112	0.5	21.0	2.3	0.5	16.3	1	

**ASTA NUM. 350** NI 418 NF 419 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	140	302	22	4	-2	-120	0.5	19.8	1.8	0.5	15.4	1	
1	20	140	300	22	4	-7	-59	0.5	10.8	1.8	0.5	8.6	1	
1	40	140	297	22	4	-11	0	0.5	1.9	1.7	0.5	2.0	3	

**ASTA NUM. 351** NI 419 NF 420 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	141	230	19	4	8	-9	0.5	2.9	1.3	0.5	2.7	3	
1	20	141	227	19	4	4	36	0.5	6.6	1.3	0.5	5.5	1	
1	40	141	224	19	4	0	81	0.5	13.3	1.3	0.5	10.5	1	

**ASTA NUM. 352** NI 420 NF 421 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	143	155	13	4	18	73	0.6	14.7	0.9	0.5	11.6	1	
1	20	143	152	13	4	15	104	0.6	19.3	0.9	0.5	15.0	1	
1	40	143	150	13	4	12	134	0.6	23.8	0.9	0.5	18.4	1	

**ASTA NUM. 353** NI 421 NF 422 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	146	79	3	4	23	128	0.6	24.7	0.5	0.5	19.1	1	
1	20	146	77	3	4	23	144	0.6	27.2	0.4	0.5	20.9	1	
1	40	146	74	3	4	22	159	0.6	29.5	0.4	0.5	22.7	1	

**ASTA NUM. 354** NI 422 NF 423 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	149	3	-8	4	25	158	0.6	29.8	0.0	0.5	22.9	1	
1	20	149	0	-8	4	27	158	0.6	30.1	0.0	0.5	23.1	1	
1	40	149	-2	-8	4	29	158	0.6	30.3	0.0	0.5	23.3	1	

**ASTA NUM. 355** NI 423 NF 424 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	153	-73	-17	4	23	161	0.6	29.9	0.4	0.5	23.0	1	
1	20	153	-75	-17	4	26	146	0.6	28.1	0.4	0.5	21.6	1	
1	40	153	-78	-17	4	30	131	0.6	26.1	0.5	0.5	20.2	1	

**ASTA NUM. 356** NI 424 NF 425 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	157	-146	-21	4	17	138	0.6	25.1	0.9	0.5	19.5	1	
1	20	157	-149	-21	4	21	108	0.6	21.0	0.9	0.5	16.4	1	
1	40	157	-151	-21	4	25	79	0.6	16.8	0.9	0.5	13.2	1	

**ASTA NUM. 357** NI 425 NF 426 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	163	-233	-56	4	7	88	0.6	15.5	1.4	0.5	12.3	1	
1	20	163	-235	-56	4	18	42	0.6	9.7	1.4	0.5	7.9	1	
1	40	163	-238	-56	4	29	-6	0.6	5.7	1.4	0.5	4.9	1	

**ASTA NUM. 358** NI 426 NF 58 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	169	-343	-222	4	12	4	0.7	2.6	2.0	0.5	2.6	3	
1	20	169	-345	-222	4	56	-64	0.7	19.6	2.0	0.5	15.4	1	
1	40	169	-348	-222	4	101	-134	0.7	38.1	2.0	0.5	29.2	1	

**ASTA NUM. 359** NI 18 NF 427 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	2	303	172	5	102	-96	0.0	32.2	1.8	0.5	24.1	1	
1	20	2	301	172	5	67	-36	0.0	16.7	1.8	0.5	12.6	1	
1	40	2	298	172	5	33	24	0.0	9.3	1.7	0.5	7.0	1	

**ASTA NUM. 360** NI 427 NF 428 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	234	100	5	54	15	0.0	11.1	1.4	0.5	8.4	1	
1	20	1	231	100	5	34	61	0.0	15.5	1.4	0.5	11.6	1	
1	40	1	229	100	5	14	107	0.0	19.7	1.3	0.5	14.8	1	

**ASTA NUM. 361** NI 428 NF 429 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	143	45	5	36	97	0.0	21.7	0.8	0.5	16.3	1	
1	20	0	140	45	5	27	125	0.0	24.8	0.8	0.5	18.6	1	
1	40	0	138	45	5	18	153	0.0	27.9	0.8	0.5	20.9	1	

**ASTA NUM. 362** NI 429 NF 430 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	67	25	5	35	146	0.0	29.4	0.4	0.5	23.1	1	
1	20	-0	64	25	5	30	159	0.0	30.7	0.4	0.5	24.1	1	
1	40	-0	62	25	5	25	171	0.0	31.9	0.4	0.5	25.1	1	

**ASTA NUM. 363** NI 430 NF 431 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	-5	16	5	33	167	0.0	32.6	0.1	0.5	25.6	1	
1	20	-0	-8	16	5	30	166	0.0	31.9	0.1	0.5	25.1	1	
1	40	-0	-10	16	5	27	164	0.0	31.1	0.1	0.5	24.4	1	

**ASTA NUM. 364** NI 431 NF 432 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	-76	7	5	26	164	0.0	31.0	0.4	0.5	24.3	1	
1	20	-0	-79	7	5	25	148	0.0	28.2	0.5	0.5	22.2	1	
1	40	-0	-81	7	5	23	132	0.0	25.4	0.5	0.5	19.9	1	

**ASTA NUM. 365** NI 432 NF 433 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	-146	0	5	14	136	0.0	24.5	0.9	0.5	19.2	1	
1	20	-0	-149	0	5	14	106	0.0	19.7	0.9	0.5	15.4	1	
1	40	-0	-152	0	5	14	76	0.0	14.8	0.9	0.5	11.6	1	

**ASTA NUM. 366** NI 433 NF 434 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	-217	-9	5	-1	83	0.0	13.7	1.3	0.5	10.3	1	
1	20	0	-220	-9	5	0	39	0.0	6.4	1.3	0.5	4.8	2	
1	40	0	-222	-9	5	2	-5	0.0	1.2	1.3	0.5	0.9	3	

**ASTA NUM. 367** NI 434 NF 435 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	-295	-35	5	-17	3	0.0	3.3	1.7	0.5	2.5	3	
1	20	1	-297	-35	5	-10	-56	0.0	10.8	1.7	0.5	8.1	1	
1	40	1	-300	-35	5	-3	-116	0.0	19.4	1.8	0.5	14.6	1	

**ASTA NUM. 368** NI 435 NF 21 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	4	-399	-61	5	-20	-109	0.0	21.0	2.3	0.5	15.7	1	
1	20	4	-402	-61	5	-8	-189	0.0	32.0	2.4	0.5	24.0	1	
1	40	4	-405	-61	5	5	-270	0.0	44.6	2.4	0.5	33.5	1	

**ASTA NUM. 369** NI 21 NF 436 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	15	359	70	-0	4	-256	0.1	42.4	2.1	0.0	31.8	1	
1	20	15	356	70	-0	-10	-184	0.1	31.6	2.1	0.0	23.7	1	
1	40	15	354	70	-0	-24	-113	0.1	22.3	2.1	0.0	16.8	1	

**ASTA NUM. 370** NI 436 NF 437 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	11	253	42	-0	-8	-119	0.0	20.8	1.5	0.0	15.6	1	
1	20	11	251	42	-0	-17	-69	0.0	13.9	1.5	0.0	10.5	1	
1	40	11	248	42	-0	-25	-19	0.0	7.2	1.5	0.0	5.4	1	

**ASTA NUM. 371** NI 437 NF 438 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	10	178	20	-0	-7	-26	0.0	5.4	1.0	0.0	4.1	1	
1	20	10	175	20	-0	-11	9	0.0	3.2	1.0	0.0	2.5	1	
1	40	10	173	20	-0	-15	44	0.0	9.5	1.0	0.0	7.2	1	

**ASTA NUM. 372** NI 438 NF 439 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	9	108	13	-0	-0	38	0.0	6.2	0.6	0.0	4.7	1	
1	20	9	106	13	-0	-3	59	0.0	10.1	0.6	0.0	7.6	1	
1	40	9	103	13	-0	-5	80	0.0	13.9	0.6	0.0	10.5	1	



**ASTA NUM. 373** NI 439 NF 440 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	9	39	6	-0	3	77	0.0	13.0	0.2	0.0	9.7	1	
1	20	9	36	6	-0	2	84	0.0	14.0	0.2	0.0	10.5	1	
1	40	9	34	6	-0	1	91	0.0	14.9	0.2	0.0	11.2	1	

**ASTA NUM. 374** NI 440 NF 441 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	-31	-2	-0	1	91	0.0	15.0	0.2	0.0	11.3	1	
1	20	8	-34	-2	-0	2	84	0.0	14.0	0.2	0.0	10.6	1	
1	40	8	-36	-2	-0	2	77	0.0	13.0	0.2	0.0	9.8	1	

**ASTA NUM. 375** NI 441 NF 442 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	-101	-9	-0	-5	80	0.0	13.8	0.6	0.0	10.4	1	
1	20	8	-103	-9	-0	-3	60	0.0	10.2	0.6	0.0	7.7	1	
1	40	8	-106	-9	-0	-1	39	0.0	6.5	0.6	0.0	4.9	1	

**ASTA NUM. 376** NI 442 NF 443 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	-170	-16	-0	-14	44	0.0	9.6	1.0	0.0	7.2	1	
1	20	8	-173	-16	-0	-11	10	0.0	3.4	1.0	0.0	2.6	1	
1	40	8	-175	-16	-0	-8	-25	0.0	5.3	1.0	0.0	4.0	1	

**ASTA NUM. 377** NI 443 NF 444 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	9	-245	-37	-0	-24	-18	0.0	6.9	1.4	0.0	5.2	1	
1	20	9	-248	-37	-0	-17	-67	0.0	13.7	1.5	0.0	10.3	1	
1	40	9	-250	-37	-0	-10	-117	0.0	20.6	1.5	0.0	15.5	1	

**ASTA NUM. 378** NI 444 NF 40 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	12	-349	-62	-0	-24	-111	0.0	22.0	2.0	0.0	16.5	1	
1	20	12	-352	-62	-0	-12	-181	0.0	31.4	2.1	0.0	23.6	1	
1	40	12	-355	-62	-0	1	-252	0.0	41.2	2.1	0.0	30.9	1	

**ASTA NUM. 379** NI 40 NF 445 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-20	406	72	-4	12	-268	0.1	45.4	2.4	0.4	35.8	1	
1	20	-20	404	72	-4	-3	-187	0.1	30.8	2.4	0.4	24.3	1	
1	40	-20	401	72	-4	-17	-106	0.1	20.1	2.4	0.4	15.9	1	

**ASTA NUM. 380** NI 445 NF 446 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-24	300	42	-4	0	-114	0.1	18.5	1.8	0.4	14.7	1	
1	20	-24	297	42	-4	-8	-54	0.1	10.1	1.7	0.4	8.0	1	
1	40	-24	295	42	-4	-17	5	0.1	3.6	1.7	0.4	2.9	3	

**ASTA NUM. 381** NI 446 NF 447 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-26	222	14	-4	4	-3	0.1	1.2	1.3	0.4	1.0	3	
1	20	-26	219	14	-4	1	41	0.1	6.9	1.3	0.4	5.5	1	
1	40	-26	217	14	-4	-1	85	0.1	14.0	1.3	0.4	11.1	1	

**ASTA NUM. 382** NI 447 NF 448 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-27	151	4	-4	16	78	0.1	15.2	0.9	0.4	12.1	1	
1	20	-27	148	4	-4	15	108	0.1	20.0	0.9	0.4	15.8	1	
1	40	-27	146	4	-4	14	137	0.1	24.6	0.9	0.4	19.4	1	

**ASTA NUM. 383** NI 448 NF 449 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-28	81	-3	-4	25	133	0.1	25.7	0.5	0.4	20.3	1	
1	20	-28	78	-3	-4	25	149	0.1	28.3	0.5	0.4	22.4	1	
1	40	-28	76	-3	-4	26	165	0.1	30.9	0.4	0.4	24.4	1	

**ASTA NUM. 384** NI 449 NF 450 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-29	10	-12	-4	27	164	0.1	31.2	0.1	0.4	24.6	1	
1	20	-29	7	-12	-4	30	166	0.1	31.9	0.1	0.4	25.1	1	
1	40	-29	5	-12	-4	32	167	0.1	32.4	0.1	0.4	25.6	1	

**ASTA NUM. 385** NI 450 NF 451 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-29	-62	-21	-4	25	171	0.1	31.9	0.4	0.4	25.2	1	
1	20	-29	-64	-21	-4	29	158	0.1	30.5	0.4	0.4	24.1	1	
1	40	-29	-67	-21	-4	33	145	0.1	29.1	0.4	0.4	22.9	1	

**ASTA NUM. 386** NI 451 NF 452 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-30	-136	-39	-4	18	152	0.1	27.7	0.8	0.4	21.9	1	
1	20	-30	-139	-39	-4	26	125	0.1	24.5	0.8	0.4	19.4	1	
1	40	-30	-142	-39	-4	34	97	0.1	21.2	0.8	0.4	16.8	1	

**ASTA NUM. 387** NI 452 NF 453 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-30	-227	-95	-4	12	107	0.1	19.3	1.3	0.4	15.3	1	
1	20	-30	-229	-95	-4	31	61	0.1	15.0	1.3	0.4	11.9	1	
1	40	-30	-232	-95	-4	50	15	0.1	10.5	1.4	0.4	8.4	1	

**ASTA NUM. 388** NI 453 NF 59 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-31	-305	-190	-4	29	24	0.1	8.7	1.8	0.4	7.0	1	
1	20	-31	-308	-190	-4	67	-37	0.1	17.0	1.8	0.4	13.5	1	
1	40	-31	-310	-190	-4	105	-99	0.1	33.2	1.8	0.4	26.2	1	

**ASTA NUM. 389** NI 15 NF 454 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-58	278	179	7	116	-67	0.2	29.9	1.6	0.9	23.7	1	
1	20	-58	276	179	7	81	-12	0.2	15.0	1.6	0.9	12.0	1	
1	40	-58	273	179	7	45	43	0.2	14.3	1.6	0.9	11.4	1	

**ASTA NUM. 390** NI 454 NF 455 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-37	201	79	9	56	39	0.1	15.3	1.2	1.0	12.2	1	
1	20	-37	199	79	9	40	79	0.1	19.3	1.2	1.0	15.3	1	
1	40	-37	196	79	9	24	118	0.1	23.1	1.1	1.0	18.3	1	

**ASTA NUM. 391** NI 455 NF 456 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-15	116	29	8	36	113	0.1	24.3	0.7	1.0	19.2	1	
1	20	-15	114	29	8	30	136	0.1	27.1	0.7	1.0	21.4	1	
1	40	-15	111	29	8	24	159	0.1	29.8	0.7	1.0	23.5	1	

**ASTA NUM. 392** NI 456 NF 457 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	2	46	14	8	33	156	0.0	30.7	0.3	0.9	23.1	1	
1	20	2	43	14	8	31	165	0.0	31.7	0.3	0.9	23.8	1	
1	40	2	41	14	8	28	173	0.0	32.7	0.2	0.9	24.5	1	

**ASTA NUM. 393** NI 457 NF 458 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	10	-18	13	7	32	172	0.0	33.2	0.1	0.9	24.9	1	
1	20	10	-21	13	7	30	168	0.0	32.1	0.1	0.9	24.1	1	
1	40	10	-24	13	7	27	163	0.0	31.0	0.1	0.9	23.3	1	

**ASTA NUM. 394** NI 458 NF 459 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	10	-81	17	7	27	164	0.0	31.1	0.5	0.8	23.3	1	
1	20	10	-84	17	7	24	147	0.0	27.8	0.5	0.8	20.9	1	
1	40	10	-87	17	7	20	130	0.0	24.5	0.5	0.8	18.4	1	

**ASTA NUM. 395** NI 459 NF 460 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	-144	22	6	16	133	0.0	24.2	0.8	0.7	18.2	1	
1	20	1	-146	22	6	12	104	0.0	18.8	0.9	0.7	14.1	1	
1	40	1	-149	22	6	7	74	0.0	13.3	0.9	0.7	9.9	1	

**ASTA NUM. 396** NI 460 NF 461 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-14	-207	26	5	-0	78	0.1	12.7	1.2	0.5	10.1	2	
1	20	-14	-209	26	5	-6	36	0.1	6.8	1.2	0.5	5.4	1	
1	40	-14	-212	26	5	-11	-6	0.1	2.7	1.2	0.5	2.2	3	

**ASTA NUM. 397** NI 461 NF 462 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-33	-284	-2	3	-21	-1	0.1	3.6	1.7	0.3	2.9	3	
1	20	-33	-286	-2	3	-20	-58	0.1	12.8	1.7	0.3	10.2	1	
1	40	-33	-289	-2	3	-20	-116	0.1	22.1	1.7	0.3	17.5	1	

**ASTA NUM. 398** NI 462 NF 24 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-51	-446	-160	-2	-29	-112	0.2	22.9	2.6	0.2	18.2	1	
1	20	-51	-449	-160	-2	3	-201	0.2	33.2	2.6	0.2	26.3	1	
1	40	-51	-451	-160	-2	35	-291	0.2	53.0	2.6	0.2	41.8	1	

**ASTA NUM. 399** NI 24 NF 463 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-34	401	175	11	38	-273	0.1	50.6	2.4	1.2	39.9	1	
1	20	-34	399	175	11	3	-192	0.1	31.8	2.3	1.2	25.2	1	
1	40	-34	396	175	11	-32	-113	0.1	23.5	2.3	1.2	18.6	1	

**ASTA NUM. 400** NI 463 NF 464 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-17	238	15	6	-23	-116	0.1	22.7	1.4	0.7	17.9	1	
1	20	-17	236	15	6	-26	-69	0.1	15.4	1.4	0.7	12.2	1	
1	40	-17	233	15	6	-29	-22	0.1	8.3	1.4	0.7	6.6	1	

**ASTA NUM. 401** NI 464 NF 465 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	162	-11	4	-19	-26	0.0	7.3	0.9	0.5	5.5	1	
1	20	1	159	-11	4	-17	6	0.0	3.8	0.9	0.5	2.8	1	
1	40	1	157	-11	4	-15	38	0.0	8.6	0.9	0.5	6.4	1	

**ASTA NUM. 402** NI 465 NF 466 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	16	99	-5	2	-7	35	0.1	6.9	0.6	0.3	5.2	1	
1	20	16	97	-5	2	-6	54	0.1	9.9	0.6	0.3	7.5	1	
1	40	16	94	-5	2	-5	74	0.1	12.8	0.6	0.3	9.7	1	

**ASTA NUM. 403** NI 466 NF 467 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	24	36	-0	1	-1	72	0.1	11.8	0.2	0.1	9.0	1	
1	20	24	33	-0	1	-1	79	0.1	13.0	0.2	0.1	9.8	1	
1	40	24	31	-0	1	-1	85	0.1	14.0	0.2	0.1	10.6	1	

**ASTA NUM. 404** NI 467 NF 468 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	25	-28	2	-1	-0	85	0.1	13.9	0.2	0.1	10.5	1	
1	20	25	-31	2	-1	-1	79	0.1	13.0	0.2	0.1	9.8	1	
1	40	25	-34	2	-1	-1	73	0.1	12.0	0.2	0.1	9.1	1	



**ASTA NUM. 405** NI 468 NF 469 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	18	-92	7	-3	-5	74	0.1	12.8	0.5	0.3	9.7	1	
1	20	18	-94	7	-3	-6	55	0.1	10.0	0.6	0.3	7.6	1	
1	40	18	-97	7	-3	-8	36	0.1	7.1	0.6	0.3	5.4	1	

**ASTA NUM. 406** NI 469 NF 470 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	5	-154	14	-4	-14	39	0.0	8.6	0.9	0.5	6.5	1	
1	20	5	-157	14	-4	-17	8	0.0	4.0	0.9	0.5	3.0	1	
1	40	5	-159	14	-4	-20	-24	0.0	7.1	0.9	0.5	5.3	1	

**ASTA NUM. 407** NI 470 NF 471 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-11	-230	-10	-6	-28	-20	0.0	8.0	1.3	0.7	6.3	1	
1	20	-11	-232	-10	-6	-26	-67	0.0	15.2	1.4	0.7	12.0	1	
1	40	-11	-235	-10	-6	-24	-113	0.0	22.4	1.4	0.7	17.7	1	

**ASTA NUM. 408** NI 471 NF 43 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-27	-393	-169	-11	-33	-110	0.1	23.3	2.3	1.3	18.4	1	
1	20	-27	-395	-169	-11	1	-189	0.1	31.0	2.3	1.3	24.4	2	
1	40	-27	-398	-169	-11	35	-268	0.1	49.4	2.3	1.3	38.9	1	

**ASTA NUM. 409** NI 43 NF 472 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-40	456	171	0	42	-292	0.2	54.3	2.7	0.1	42.8	1	
1	20	-40	454	171	0	7	-201	0.2	33.9	2.7	0.1	26.8	1	
1	40	-40	451	171	0	-27	-111	0.2	22.4	2.6	0.1	17.7	1	

**ASTA NUM. 410** NI 472 NF 473 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-21	292	7	-4	-17	-115	0.1	21.5	1.7	0.5	17.0	1	
1	20	-21	289	7	-4	-19	-57	0.1	12.3	1.7	0.5	9.8	1	
1	40	-21	287	7	-4	-20	1	0.1	3.4	1.7	0.5	2.7	3	

**ASTA NUM. 411** NI 473 NF 474 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	213	-23	-6	-9	-5	0.0	2.3	1.3	0.7	1.7	3	
1	20	0	211	-23	-6	-5	38	0.0	6.9	1.2	0.7	5.2	1	
1	40	0	208	-23	-6	-0	80	0.0	13.0	1.2	0.7	9.7	2	

**ASTA NUM. 412** NI 474 NF 475 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	17	150	-19	-7	9	75	0.1	13.7	0.9	0.8	10.3	1	
1	20	17	147	-19	-7	12	105	0.1	19.1	0.9	0.8	14.4	1	
1	40	17	145	-19	-7	16	134	0.1	24.5	0.8	0.8	18.5	1	

**ASTA NUM. 413** NI 475 NF 476 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	28	87	-14	-8	21	132	0.1	24.9	0.5	1.0	18.8	1	
1	20	28	85	-14	-8	24	149	0.1	28.2	0.5	1.0	21.2	1	
1	40	28	82	-14	-8	27	166	0.1	31.3	0.5	1.0	23.6	1	

**ASTA NUM. 414** NI 476 NF 477 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	30	24	-11	-9	28	165	0.1	31.3	0.1	1.1	23.6	1	
1	20	30	22	-11	-9	30	169	0.1	32.4	0.1	1.1	24.4	1	
1	40	30	19	-11	-9	32	173	0.1	33.4	0.1	1.1	25.2	1	

**ASTA NUM. 415** NI 477 NF 478 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	23	-41	-12	-10	28	174	0.1	33.0	0.2	1.2	24.8	1	
1	20	23	-43	-12	-10	31	166	0.1	32.0	0.3	1.2	24.1	1	
1	40	23	-46	-12	-10	33	157	0.1	30.9	0.3	1.2	23.3	1	

**ASTA NUM. 416** NI 478 NF 479 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	-112	-27	-11	25	160	0.0	30.1	0.7	1.3	22.6	1	
1	20	8	-114	-27	-11	31	137	0.0	27.3	0.7	1.3	20.5	1	
1	40	8	-117	-27	-11	36	114	0.0	24.4	0.7	1.3	18.3	1	

**ASTA NUM. 417** NI 479 NF 480 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-13	-193	-66	-12	25	118	0.1	23.3	1.1	1.5	18.3	1	
1	20	-13	-196	-66	-12	38	79	0.1	19.1	1.1	1.5	15.0	1	
1	40	-13	-198	-66	-12	51	40	0.1	14.8	1.2	1.5	11.7	1	

**ASTA NUM. 418** NI 480 NF 62 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-33	-253	-122	-13	41	44	0.1	13.8	1.5	1.5	11.0	1	
1	20	-33	-256	-122	-13	65	-7	0.1	11.7	1.5	1.5	9.3	3	
1	40	-33	-258	-122	-13	90	-58	0.1	24.1	1.5	1.5	19.0	1	

**ASTA NUM. 419** NI 99 NF 100 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	28	2	8	10	-20	143	0.1	26.5	0.0	1.2	20.0	1	
1	20	28	-1	8	10	-22	143	0.1	26.8	0.0	1.2	20.2	1	
1	40	28	-3	8	10	-24	142	0.1	27.0	0.0	1.2	20.4	1	

**ASTA NUM. 420** NI 100 NF 101 Lungh. 40.0 cm SEZ. 2 Rp B= 16.0 H= 16.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.1280 0.1280 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	22	-12	16	10	-20	143	0.1	26.5	0.1	1.2	20.0	1	
1	20	22	-15	16	10	-23	141	0.1	26.6	0.1	1.2	20.1	1	
1	40	22	-17	16	10	-26	137	0.1	26.6	0.1	1.2	20.1	1	

Lavoro: **Calcolo struttura copertura capannone H** Intestazione lavoro: **Copertura L.L.**  
 Elemento: **TRAVE** Metodo di verifica: **Tensioni ammissibili**  
 Gruppo: **3** Descrizione: **Arcarecci**  
 Tabella: **Tabella travi**  
 Tipo legno: **Legno lamellare Qualità I**  
 Coefficienti di forma **abilitati**

**ASTA NUM. 1** NI 129 NF 77 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1787 0.0815 0.2897 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	2	-5	0	0	-0	-0	0.0	0.6	0.1	0.0	0.5	1	
1	36	4	-11	0	0	0	-2	0.1	2.2	0.2	0.0	1.8	1	

**ASTA NUM. 2** NI 77 NF 131 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.0815 0.2898 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-116	17	21	0	12	-1	1.8	14.5	0.5	0.1	13.2	1	
1	56	-109	1	21	0	0	4	1.7	5.0	0.5	0.1	5.7	1	
1	112	-102	-16	21	0	-11	-0	1.6	13.5	0.5	0.1	12.2	3	

**ASTA NUM. 3** NI 131 NF 158 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.0815 0.2898 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-193	16	20	-1	11	0	3.0	13.3	0.5	0.6	13.5	3	
1	56	-186	0	20	-1	-0	5	2.9	5.3	0.5	0.6	7.1	2	
1	112	-179	-16	20	-1	-11	0	2.8	13.4	0.5	0.6	13.3	3	

**ASTA NUM. 4** NI 158 NF 184 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.0815 0.2898 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-361	16	15	-3	8	0	5.6	9.8	0.4	2.9	13.4	3	
1	56	-354	0	15	-3	0	5	5.5	5.4	0.3	2.9	9.8	2	
1	112	-348	-16	15	-3	-8	0	5.4	9.6	0.4	2.9	12.9	3	

**ASTA NUM. 5** NI 122 NF 78 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 6** NI 78 NF 132 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-69	34	22	0	13	-4	1.1	19.6	0.8	0.3	16.5	1	
1	56	-56	4	22	0	0	6	0.9	7.7	0.5	0.3	6.9	2	
1	112	-43	-27	22	0	-12	-0	0.7	14.5	0.6	0.3	12.1	3	

**ASTA NUM. 7** NI 132 NF 159 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-127	31	21	-0	12	0	2.0	14.2	0.7	0.3	13.1	3	
1	56	-114	-0	21	-0	0	9	1.8	10.2	0.5	0.3	9.8	1	
1	112	-101	-31	21	-0	-12	0	1.6	13.9	0.7	0.3	12.5	3	

**ASTA NUM. 8** NI 159 NF 185 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-161	31	15	-2	9	0	2.5	10.3	0.7	2.3	10.6	3	
1	56	-148	-0	15	-2	0	9	2.3	10.2	0.4	2.3	10.4	2	
1	112	-135	-31	15	-2	-8	0	2.1	9.9	0.7	2.3	9.9	3	

**ASTA NUM. 9** NI 123 NF 79 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	-0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 10** NI 79 NF 133 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-31	34	17	0	9	-4	0.5	15.6	0.8	0.5	12.7	1	
1	56	-18	4	17	0	0	7	0.3	7.8	0.4	0.5	6.4	2	
1	112	-5	-27	17	0	-9	-0	0.1	10.8	0.6	0.5	8.6	3	

**ASTA NUM. 11** NI 133 NF 160 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-50	31	16	-0	9	0	0.8	10.6	0.7	0.0	9.1	3	
1	56	-37	-0	16	-0	0	9	0.6	10.1	0.4	0.0	8.5	1	
1	112	-24	-31	16	-0	-9	0	0.4	10.4	0.7	0.0	8.6	3	

**ASTA NUM. 12** NI 160 NF 186 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-55	31	11	-2	6	0	0.9	7.5	0.7	1.5	6.8	3	
1	56	-42	-0	11	-2	0	9	0.7	10.1	0.3	1.5	8.6	2	
1	112	-29	-31	11	-2	-6	0	0.5	7.4	0.7	1.5	6.3	3	

**ASTA NUM. 13** NI 124 NF 80 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 14** NI 80 NF 134 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-15	34	8	1	5	-4	0.2	10.3	0.8	0.5	8.3	1	
1	56	-2	4	8	1	0	7	0.0	7.7	0.2	0.5	6.1	2	
1	112	11	-27	8	1	-5	-0	0.2	5.4	0.6	0.5	4.3	3	

**ASTA NUM. 15** NI 134 NF 161 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-23	31	8	0	5	0	0.4	5.4	0.7	0.1	4.6	3	
1	56	-10	-0	8	0	0	9	0.2	10.0	0.2	0.1	8.1	2	
1	112	3	-31	8	0	-5	0	0.0	5.4	0.7	0.1	4.1	3	

**ASTA NUM. 16** NI 161 NF 187 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-33	31	5	-1	3	0	0.5	2.9	0.7	0.5	2.8	3	
1	56	-20	-0	5	-1	-0	9	0.3	10.0	0.1	0.5	8.2	2	
1	112	-7	-31	5	-1	-3	0	0.1	3.0	0.7	0.5	2.4	3	



**ASTA NUM. 17** NI 125 NF 81 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 18** NI 81 NF 135 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-11	35	-0	1	-0	-4	0.2	5.3	0.8	0.6	4.4	1	
1	56	2	4	-0	1	0	6	0.0	7.5	0.1	0.6	5.7	2	
1	112	15	-27	-0	1	0	-0	0.2	0.3	0.6	0.6	0.4	3	

**ASTA NUM. 19** NI 135 NF 162 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-19	31	-0	0	-0	0	0.3	0.3	0.7	0.2	0.5	3	
1	56	-6	-0	-0	0	-0	9	0.1	10.0	0.0	0.2	8.0	2	
1	112	7	-31	-0	0	0	0	0.1	0.3	0.7	0.2	0.3	3	

**ASTA NUM. 20** NI 162 NF 188 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-31	31	-4	0	-2	0	0.5	2.5	0.7	0.3	2.4	3	
1	56	-18	-0	-4	0	0	9	0.3	10.0	0.1	0.3	8.2	2	
1	112	-5	-31	-4	0	2	0	0.1	2.5	0.7	0.3	2.0	3	

**ASTA NUM. 21** NI 126 NF 82 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 22** NI 82 NF 136 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-9	35	-9	1	-5	-5	0.1	11.1	0.8	0.5	8.9	1	
1	56	4	4	-9	1	-0	6	0.1	7.3	0.2	0.5	5.6	2	
1	112	17	-27	-9	1	5	-0	0.3	5.7	0.6	0.5	4.5	3	

**ASTA NUM. 23** NI 136 NF 163 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-15	31	-9	0	-5	0	0.2	5.7	0.7	0.3	4.7	3	
1	56	-2	-0	-9	0	-0	9	0.0	10.0	0.2	0.3	7.9	2	
1	112	11	-31	-9	0	5	0	0.2	5.7	0.7	0.3	4.4	3	

**ASTA NUM. 24** NI 163 NF 189 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-25	31	-12	1	-7	0	0.4	7.6	0.7	1.0	6.4	3	
1	56	-12	-0	-12	1	0	9	0.2	10.1	0.3	1.0	8.1	2	
1	112	1	-31	-12	1	7	0	0.0	7.7	0.7	1.0	5.8	3	

**ASTA NUM. 25** NI 127 NF 83 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 26** NI 83 NF 137 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-10	35	-15	1	-9	-5	0.2	15.9	0.8	0.5	12.7	1	
1	56	3	4	-15	1	-0	6	0.0	7.2	0.4	0.5	5.4	2	
1	112	16	-26	-15	1	9	-0	0.2	10.1	0.6	0.5	7.8	3	

**ASTA NUM. 27** NI 137 NF 164 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-18	31	-15	0	-9	0	0.3	10.0	0.7	0.3	8.1	3	
1	56	-5	-0	-15	0	-0	9	0.1	10.1	0.4	0.3	8.0	2	
1	112	8	-31	-15	0	8	0	0.1	9.9	0.7	0.3	7.5	3	

**ASTA NUM. 28** NI 164 NF 190 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-25	31	-18	2	-10	0	0.4	11.5	0.7	1.5	9.4	3	
1	56	-12	-0	-18	2	0	9	0.2	10.1	0.4	1.5	8.1	2	
1	112	1	-31	-18	2	10	0	0.0	11.5	0.7	1.5	8.7	3	

**ASTA NUM. 29** NI 128 NF 84 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	-0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 30** NI 84 NF 138 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-45	35	-19	0	-11	-5	0.7	19.1	0.8	0.4	15.7	1	
1	56	-32	5	-19	0	-0	6	0.5	7.1	0.5	0.4	6.1	1	
1	112	-19	-26	-19	0	11	-0	0.3	12.6	0.6	0.4	10.2	3	

**ASTA NUM. 31** NI 138 NF 165 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-72	31	-18	0	-10	0	1.1	12.1	0.7	0.3	10.6	3	
1	56	-59	-0	-18	0	-0	9	0.9	10.2	0.4	0.3	8.9	1	
1	112	-46	-31	-18	0	10	0	0.7	11.8	0.7	0.3	10.0	3	

**ASTA NUM. 32** NI 165 NF 191 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-75	31	-19	2	-11	0	1.2	12.7	0.7	1.7	11.1	3	
1	56	-62	-0	-19	2	-0	9	1.0	10.1	0.5	1.7	8.9	2	
1	112	-49	-31	-19	2	11	0	0.8	12.5	0.7	1.7	10.6	3	

**ASTA NUM. 33** NI 130 NF 85 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5362 0.2445 0.8102 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1		
1	18	6	-15	0	0	-0	-1	0.1	1.6	0.3	0.0	1.3	1		
1	36	12	-29	0	0	0	-5	0.2	6.3	0.7	0.0	4.9	1		

**ASTA NUM. 34** NI 85 NF 139 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-194	54	-18	0	-10	-10	3.0	23.3	1.3	0.3	21.4	1		
1	56	-175	9	-18	0	-0	8	2.7	9.4	0.4	0.3	10.1	1		
1	112	-156	-36	-18	0	9	0	2.4	11.1	0.9	0.3	11.2	3		

**ASTA NUM. 35** NI 139 NF 166 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-218	45	-15	0	-9	0	3.4	10.0	1.1	0.4	11.3	3		
1	56	-199	0	-15	0	-0	13	3.1	15.0	0.4	0.4	14.9	1		
1	112	-180	-45	-15	0	8	0	2.8	9.5	1.1	0.4	10.3	3		

**ASTA NUM. 36** NI 166 NF 192 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-221	45	-15	2	-8	0	3.4	9.8	1.1	1.6	11.1	3		
1	56	-202	0	-15	2	-0	13	3.1	15.0	0.3	1.6	14.9	2		
1	112	-183	-45	-15	2	8	0	2.9	9.4	1.1	1.6	10.2	3		

**ASTA NUM. 37** NI 117 NF 86 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5362 0.2445 0.8102 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	-0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	6	-15	-0	0	-0	-1	0.1	1.6	0.3	0.0	1.3	1	
1	36	12	-29	-0	0	0	-5	0.2	6.3	0.7	0.0	4.9	1	

**ASTA NUM. 38** NI 86 NF 140 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-197	54	16	0	10	-10	3.1	22.7	1.3	0.2	20.9	1	
1	56	-178	9	16	0	0	8	2.8	9.4	0.4	0.2	10.2	1	
1	112	-159	-36	16	0	-9	-0	2.5	10.4	0.9	0.2	10.6	3	

**ASTA NUM. 39** NI 140 NF 167 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-224	45	13	0	8	0	3.5	8.9	1.1	0.5	10.5	3	
1	56	-205	0	13	0	0	13	3.2	15.1	0.3	0.5	15.0	1	
1	112	-186	-45	13	0	-7	-0	2.9	8.3	1.1	0.5	9.5	3	

**ASTA NUM. 40** NI 167 NF 193 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-173	45	10	-0	6	0	2.7	6.8	1.1	0.1	8.0	3	
1	56	-154	0	10	-0	0	13	2.4	15.0	0.2	0.1	14.2	1	
1	112	-135	-45	10	-0	-5	-0	2.1	6.4	1.1	0.1	7.1	3	

**ASTA NUM. 41** NI 119 NF 87 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 42** NI 87 NF 141 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-43	36	18	0	10	-6	0.7	18.5	0.8	0.2	15.2	1	
1	56	-30	5	18	0	0	6	0.5	6.9	0.4	0.2	5.9	1	
1	112	-17	-26	18	0	-10	-0	0.3	11.7	0.6	0.2	9.5	3	

**ASTA NUM. 43** NI 141 NF 168 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-64	31	16	0	9	0	1.0	10.9	0.7	0.4	9.6	3	
1	56	-51	-0	16	0	0	9	0.8	10.2	0.4	0.4	8.8	1	
1	112	-38	-31	16	0	-9	-0	0.6	10.6	0.7	0.4	8.9	3	

**ASTA NUM. 44** NI 168 NF 194 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-59	31	15	-0	8	0	0.9	9.6	0.7	0.3	8.5	3	
1	56	-46	-0	15	-0	0	9	0.7	10.1	0.3	0.3	8.6	2	
1	112	-33	-31	15	-0	-8	-0	0.5	9.5	0.7	0.3	8.0	3	

**ASTA NUM. 45** NI 113 NF 88 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 46** NI 88 NF 142 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-9	36	14	0	8	-5	0.1	15.8	0.8	0.1	12.5	1	
1	56	4	5	14	0	0	6	0.1	6.9	0.3	0.1	5.3	1	
1	112	17	-26	14	0	-8	-0	0.3	9.4	0.6	0.1	7.3	3	

**ASTA NUM. 47** NI 142 NF 169 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-15	31	14	0	8	0	0.2	9.0	0.7	0.3	7.3	3	
1	56	-2	-0	14	0	0	9	0.0	10.1	0.3	0.3	7.9	2	
1	112	11	-31	14	0	-8	0	0.2	9.0	0.7	0.3	6.9	3	

**ASTA NUM. 48** NI 169 NF 195 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-23	31	13	-0	7	0	0.4	8.6	0.7	0.3	7.1	3	
1	56	-10	-0	13	-0	-0	9	0.2	10.1	0.3	0.3	8.1	2	
1	112	3	-31	13	-0	-7	0	0.1	8.7	0.7	0.3	6.5	3	



**ASTA NUM. 49** NI 114 NF 89 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	-0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 50** NI 89 NF 143 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-10	35	8	0	5	-5	0.2	11.5	0.8	0.0	9.2	1	
1	56	3	5	8	0	0	6	0.1	7.0	0.2	0.0	5.3	2	
1	112	16	-26	8	0	-5	-0	0.3	5.3	0.6	0.0	4.3	3	

**ASTA NUM. 51** NI 143 NF 170 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-15	31	8	0	4	0	0.2	5.1	0.7	0.1	4.3	3	
1	56	-2	-0	8	0	-0	9	0.0	10.0	0.2	0.1	7.9	2	
1	112	11	-31	8	0	-4	0	0.2	5.2	0.7	0.1	4.0	3	

**ASTA NUM. 52** NI 170 NF 196 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-25	31	8	-0	4	0	0.4	5.0	0.7	0.2	4.3	3	
1	56	-12	-0	8	-0	-0	9	0.2	10.1	0.2	0.2	8.1	1	
1	112	1	-31	8	-0	-4	0	0.0	5.1	0.7	0.2	3.8	3	

**ASTA NUM. 53** NI 115 NF 90 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 54** NI 90 NF 144 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-12	35	1	-0	0	-5	0.2	6.6	0.8	0.1	5.4	1	
1	56	1	5	1	-0	0	6	0.0	7.0	0.1	0.1	5.2	2	
1	112	13	-26	1	-0	-0	-0	0.2	0.5	0.6	0.1	0.6	3	

**ASTA NUM. 55** NI 144 NF 171 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-19	31	0	-0	0	0	0.3	0.3	0.7	0.0	0.5	3	
1	56	-7	-0	0	-0	-0	9	0.1	10.0	0.0	0.0	8.0	1	
1	112	6	-31	0	-0	-0	0	0.1	0.3	0.7	0.0	0.3	3	

**ASTA NUM. 56** NI 171 NF 197 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-30	31	0	0	0	0	0.5	0.2	0.7	0.0	0.6	3	
1	56	-17	-0	0	0	-0	9	0.3	10.0	0.0	0.0	8.2	1	
1	112	-4	-31	0	0	-0	0	0.1	0.2	0.7	0.0	0.2	3	

**ASTA NUM. 57** NI 116 NF 91 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 58** NI 91 NF 145 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-10	35	-7	-0	-4	-5	0.1	10.4	0.8	0.1	8.3	1	
1	56	3	5	-7	-0	-0	6	0.1	7.0	0.2	0.1	5.3	2	
1	112	16	-26	-7	-0	4	-0	0.3	4.3	0.6	0.1	3.5	3	

**ASTA NUM. 59** NI 145 NF 172 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-15	31	-7	-0	-4	0	0.2	4.6	0.7	0.2	3.8	3	
1	56	-2	-0	-7	-0	0	9	0.0	10.0	0.2	0.2	7.9	2	
1	112	11	-31	-7	-0	4	0	0.2	4.6	0.7	0.2	3.6	3	

**ASTA NUM. 60** NI 172 NF 198 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-25	31	-7	0	-4	0	0.4	4.6	0.7	0.2	4.0	3	
1	56	-12	-0	-7	0	0	9	0.2	10.1	0.2	0.2	8.1	1	
1	112	1	-31	-7	0	4	0	0.0	4.7	0.7	0.2	3.5	3	

**ASTA NUM. 61** NI 118 NF 92 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	-0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 62** NI 92 NF 146 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-8	35	-13	-0	-7	-5	0.1	14.6	0.8	0.2	11.6	1	
1	56	5	5	-13	-0	-0	6	0.1	7.0	0.3	0.2	5.3	2	
1	112	18	-26	-13	-0	7	-0	0.3	8.4	0.6	0.2	6.6	3	

**ASTA NUM. 63** NI 146 NF 173 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-14	31	-13	-0	-7	0	0.2	8.5	0.7	0.3	6.9	3	
1	56	-1	-0	-13	-0	-0	9	0.0	10.1	0.3	0.3	7.9	2	
1	112	12	-31	-13	-0	7	0	0.2	8.5	0.7	0.3	6.6	3	

**ASTA NUM. 64** NI 173 NF 199 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-22	31	-13	0	-7	0	0.3	8.2	0.7	0.3	6.8	3	
1	56	-9	-0	-13	0	0	9	0.1	10.1	0.3	0.3	8.0	2	
1	112	4	-31	-13	0	7	0	0.1	8.3	0.7	0.3	6.3	3	

**ASTA NUM. 65** NI 120 NF 93 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 66** NI 93 NF 147 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-41	36	-17	-0	-10	-5	0.6	17.5	0.8	0.2	14.4	1	
1	56	-28	5	-17	-0	-0	6	0.4	7.0	0.4	0.2	6.0	1	
1	112	-15	-26	-17	-0	9	-0	0.2	10.8	0.6	0.2	8.7	3	

**ASTA NUM. 67** NI 147 NF 174 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-62	31	-16	-0	-9	0	1.0	10.5	0.7	0.4	9.2	3	
1	56	-49	-0	-16	-0	-0	9	0.8	10.2	0.4	0.4	8.8	1	
1	112	-36	-31	-16	-0	9	0	0.6	10.2	0.7	0.4	8.6	3	

**ASTA NUM. 68** NI 174 NF 200 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-58	31	-14	0	-8	0	0.9	9.4	0.7	0.4	8.3	3	
1	56	-45	-0	-14	0	-0	9	0.7	10.1	0.3	0.4	8.6	2	
1	112	-32	-31	-14	0	8	0	0.5	9.3	0.7	0.4	7.8	3	

**ASTA NUM. 69** NI 121 NF 94 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5362 0.2445 0.8102 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	-0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	6	-15	0	0	-0	-1	0.1	1.6	0.3	0.0	1.3	1	
1	36	12	-29	0	0	0	-5	0.2	6.3	0.7	0.0	4.9	1	

**ASTA NUM. 70** NI 94 NF 148 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-195	54	-15	-0	-9	-10	3.0	21.9	1.3	0.2	20.2	1	
1	56	-176	9	-15	-0	-0	8	2.7	9.4	0.4	0.2	10.2	1	
1	112	-157	-36	-15	-0	8	-0	2.4	9.7	0.9	0.2	10.1	3	

**ASTA NUM. 71** NI 148 NF 175 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-220	45	-13	-0	-7	0	3.4	8.7	1.1	0.4	10.3	3	
1	56	-201	0	-13	-0	-0	13	3.1	15.1	0.3	0.4	15.0	1	
1	112	-182	-45	-13	-0	7	-0	2.8	8.1	1.1	0.4	9.2	3	

**ASTA NUM. 72** NI 175 NF 201 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-174	45	-10	0	-6	0	2.7	6.7	1.1	0.2	8.0	3	
1	56	-155	0	-10	0	-0	13	2.4	15.0	0.2	0.2	14.2	1	
1	112	-136	-45	-10	0	5	-0	2.1	6.3	1.1	0.2	7.1	3	

**ASTA NUM. 73** NI 104 NF 95 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5362 0.2445 0.8102 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	6	-15	0	0	-0	-1	0.1	1.6	0.3	0.0	1.3	1	
1	36	12	-29	0	0	0	-5	0.2	6.3	0.7	0.0	4.9	1	

**ASTA NUM. 74** NI 95 NF 149 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-200	54	18	-0	11	-10	3.1	24.0	1.3	0.3	22.0	1	
1	56	-181	9	18	-0	0	8	2.8	9.3	0.4	0.3	10.2	1	
1	112	-162	-36	18	-0	-10	-0	2.5	11.6	0.9	0.3	11.6	3	

**ASTA NUM. 75** NI 105 NF 96 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 76** NI 96 NF 150 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-47	36	20	-0	11	-6	0.7	20.1	0.8	0.3	16.5	1	
1	56	-34	5	20	-0	0	6	0.5	6.9	0.5	0.3	5.9	1	
1	112	-22	-26	20	-0	-11	-0	0.3	13.1	0.6	0.3	10.6	3	

**ASTA NUM. 77** NI 106 NF 97 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	-0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 78** NI 97 NF 151 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-10	36	16	-0	9	-6	0.2	17.2	0.8	0.4	13.6	1	
1	56	3	5	16	-0	0	6	0.0	6.9	0.4	0.4	5.2	2	
1	112	15	-26	16	-0	-9	-0	0.2	10.6	0.6	0.4	8.2	3	

**ASTA NUM. 79** NI 107 NF 98 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 80** NI 98 NF 152 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-9	36	10	-0	5	-5	0.1	12.7	0.8	0.5	10.1	1	
1	56	4	5	10	-0	0	6	0.1	6.9	0.2	0.5	5.2	2	
1	112	16	-26	10	-0	-5	-0	0.3	6.3	0.6	0.5	5.0	3	



**ASTA NUM. 81** NI 149 NF 481 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-228	45	15	-0	9	0	3.6	10.0	1.1	0.1	11.4	3	
1	56	-209	0	15	-0	0	13	3.3	15.0	0.3	0.1	15.1	1	
1	112	-190	-45	15	-0	-8	-0	3.0	9.5	1.1	0.1	10.4	3	

**ASTA NUM. 82** NI 481 NF 202 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-226	45	14	-2	8	0	3.5	9.6	1.1	1.5	11.0	3	
1	56	-207	0	14	-2	0	13	3.2	15.0	0.3	1.5	15.0	2	
1	112	-188	-45	14	-2	-8	-0	2.9	9.1	1.1	1.5	10.1	3	

**ASTA NUM. 83** NI 150 NF 183 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-75	31	18	0	10	0	1.2	12.1	0.7	0.0	10.7	3	
1	56	-63	-0	18	0	0	9	1.0	10.2	0.4	0.0	9.0	1	
1	112	-50	-31	18	0	-10	0	0.8	11.8	0.7	0.0	10.0	3	

**ASTA NUM. 84** NI 183 NF 203 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-78	31	19	-2	11	0	1.2	12.5	0.7	1.6	11.0	3	
1	56	-65	-0	19	-2	0	9	1.0	10.1	0.4	1.6	9.0	2	
1	112	-52	-31	19	-2	-10	0	0.8	12.3	0.7	1.6	10.5	3	

**ASTA NUM. 85** NI 151 NF 182 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-19	31	15	0	9	0	0.3	10.0	0.7	0.1	8.1	3	
1	56	-6	-0	15	0	0	9	0.1	10.1	0.4	0.1	8.0	1	
1	112	7	-31	15	0	-8	0	0.1	9.9	0.7	0.1	7.6	3	

**ASTA NUM. 86** NI 182 NF 204 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-26	31	17	-1	10	0	0.4	11.3	0.7	1.3	9.3	3	
1	56	-13	-0	17	-1	-0	9	0.2	10.1	0.4	1.3	8.1	2	
1	112	0	-31	17	-1	-10	0	0.0	11.4	0.7	1.3	8.5	3	

**ASTA NUM. 87** NI 152 NF 181 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-15	31	9	0	5	0	0.2	5.8	0.7	0.0	4.8	3	
1	56	-2	-0	9	0	-0	9	0.0	10.0	0.2	0.0	7.9	2	
1	112	11	-31	9	0	-5	0	0.2	5.8	0.7	0.0	4.5	3	

**ASTA NUM. 88** NI 181 NF 205 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-26	31	12	-1	7	0	0.4	7.6	0.7	0.9	6.4	3	
1	56	-13	-0	12	-1	-0	9	0.2	10.1	0.3	0.9	8.1	2	
1	112	0	-31	12	-1	-7	0	0.0	7.7	0.7	0.9	5.8	3	

**ASTA NUM. 89** NI 108 NF 99 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 90** NI 99 NF 153 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-15	36	2	-1	1	-5	0.2	7.4	0.8	0.5	6.1	1	
1	56	-2	5	2	-1	-0	6	0.0	6.9	0.1	0.5	5.4	2	
1	112	11	-26	2	-1	-1	-0	0.2	1.1	0.6	0.5	1.0	3	

**ASTA NUM. 91** NI 153 NF 180 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-24	31	1	-0	0	0	0.4	0.5	0.7	0.0	0.8	3	
1	56	-11	-0	1	-0	-0	9	0.2	10.0	0.0	0.0	8.1	1	
1	112	2	-31	1	-0	-0	0	0.0	0.6	0.7	0.0	0.5	3	

**ASTA NUM. 92** NI 180 NF 206 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-34	31	4	-0	2	0	0.5	2.6	0.7	0.2	2.6	3	
1	56	-21	-0	4	-0	-0	9	0.3	10.0	0.1	0.2	8.2	1	
1	112	-8	-31	4	-0	-2	0	0.1	2.7	0.7	0.2	2.2	3	

**ASTA NUM. 93** NI 154 NF 179 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-33	31	-7	-0	-4	0	0.5	4.8	0.7	0.1	4.3	3	
1	56	-20	-0	-7	-0	-0	9	0.3	10.0	0.2	0.1	8.2	1	
1	112	-7	-31	-7	-0	4	0	0.1	4.8	0.7	0.1	3.9	3	

**ASTA NUM. 94** NI 179 NF 207 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-37	31	-4	1	-2	0	0.6	2.5	0.7	0.6	2.6	3	
1	56	-24	-0	-4	1	0	9	0.4	10.0	0.1	0.6	8.3	2	
1	112	-11	-31	-4	1	2	0	0.2	2.6	0.7	0.6	2.2	3	

**ASTA NUM. 95** NI 110 NF 101 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 96** NI 101 NF 155 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-33	36	-14	-1	-8	-5	0.5	15.7	0.8	0.6	12.9	1	
1	56	-20	5	-14	-1	-0	6	0.3	6.9	0.3	0.6	5.8	2	
1	112	-7	-26	-14	-1	8	-0	0.1	9.3	0.6	0.6	7.4	3	

**ASTA NUM. 97** NI 155 NF 178 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-51	31	-15	-0	-8	0	0.8	9.8	0.7	0.1	8.5	3	
1	56	-38	-0	-15	-0	-0	9	0.6	10.1	0.3	0.1	8.5	1	
1	112	-25	-31	-15	-0	8	0	0.4	9.7	0.7	0.1	8.0	3	

**ASTA NUM. 98** NI 178 NF 208 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-54	31	-11	2	-6	0	0.8	6.9	0.7	1.5	6.3	3	
1	56	-41	-0	-11	2	-0	9	0.6	10.1	0.2	1.5	8.5	2	
1	112	-28	-31	-11	2	6	0	0.4	6.9	0.7	1.5	5.8	3	

**ASTA NUM. 99** NI 111 NF 102 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	4	-10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	8	-20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	

**ASTA NUM. 100** NI 102 NF 156 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-56	36	-20	-1	-11	-6	0.9	19.7	0.8	0.5	16.3	1	
1	56	-43	5	-20	-1	-0	6	0.7	6.8	0.5	0.5	6.0	2	
1	112	-30	-26	-20	-1	11	-0	0.5	13.0	0.6	0.5	10.7	3	

**ASTA NUM. 101** NI 156 NF 177 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-113	31	-20	0	-11	0	1.8	13.4	0.7	0.0	12.3	3	
1	56	-100	-0	-20	0	-0	9	1.6	10.1	0.5	0.0	9.5	1	
1	112	-87	-31	-20	0	11	0	1.4	13.2	0.7	0.0	11.7	3	

**ASTA NUM. 102** NI 177 NF 209 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-149	31	-15	2	-8	0	2.3	9.8	0.7	2.3	10.0	3	
1	56	-136	-0	-15	2	-0	9	2.1	10.2	0.3	2.3	10.2	2	
1	112	-123	-31	-15	2	8	0	1.9	9.4	0.7	2.3	9.3	3	

**ASTA NUM. 103** NI 112 NF 103 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1787 0.0815 0.2897 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	
1	18	2	-5	-0	0	-0	-0	0.0	0.6	0.1	0.0	0.5	1	
1	36	4	-11	0	0	0	-2	0.1	2.2	0.2	0.0	1.8	1	

**ASTA NUM. 104** NI 103 NF 157 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.0815 0.2898 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-69	18	-19	-0	-11	-2	1.1	15.2	0.4	0.3	13.0	1	
1	56	-62	2	-19	-0	-0	3	1.0	4.0	0.4	0.3	4.1	2	
1	112	-55	-14	-19	-0	11	-0	0.9	12.3	0.4	0.3	10.6	3	

**ASTA NUM. 105** NI 157 NF 176 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.0815 0.2898 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-168	16	-20	0	-11	0	2.6	13.0	0.5	0.3	12.8	3	
1	56	-161	0	-20	0	-0	5	2.5	5.3	0.5	0.3	6.7	2	
1	112	-154	-16	-20	0	11	0	2.4	13.0	0.5	0.3	12.6	3	

**ASTA NUM. 106** NI 176 NF 210 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.0815 0.2898 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-341	16	-14	3	-8	0	5.3	9.6	0.4	2.8	12.8	3	
1	56	-334	0	-14	3	-0	5	5.2	5.4	0.3	2.8	9.5	2	
1	112	-327	-16	-14	3	8	0	5.1	9.3	0.4	2.8	12.4	3	

**ASTA NUM. 107** NI 210 NF 237 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.1104 0.3187 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-336	17	15	-3	8	0	5.2	9.7	0.4	2.6	12.8	3	
1	56	-343	0	15	-3	-0	5	5.4	6.0	0.4	2.6	10.0	2	
1	112	-351	-18	15	-3	-8	-0	5.5	10.0	0.4	2.6	13.3	3	

**ASTA NUM. 108** NI 237 NF 264 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.1104 0.3187 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-162	17	21	0	12	0	2.5	14.0	0.5	0.0	13.5	3	
1	56	-169	0	21	0	-0	5	2.6	5.8	0.5	0.0	7.2	2	
1	112	-177	-18	21	0	-12	-0	2.8	14.0	0.5	0.0	13.8	3	

**ASTA NUM. 109** NI 264 NF 291 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.1104 0.3187 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-12	17	21	2	12	0	0.2	13.8	0.5	2.2	11.0	3	
1	56	-19	0	21	2	-0	5	0.3	5.8	0.5	2.2	4.9	2	
1	112	-27	-18	21	2	-12	-0	0.4	13.9	0.5	2.2	11.3	3	

**ASTA NUM. 110** NI 209 NF 236 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-123	33	15	-2	8	0	1.9	9.8	0.8	2.3	9.7	3	
1	56	-136	1	15	-2	-0	9	2.1	11.3	0.4	2.3	11.0	2	
1	112	-151	-35	15	-2	-9	-0	2.4	10.2	0.8	2.3	10.4	3	

**ASTA NUM. 111** NI 236 NF 263 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-85	33	22	0	12	0	1.3	14.2	0.8	0.0	12.5	3	
1	56	-99	1	22	0	-0	9	1.5	11.2	0.5	0.0	10.3	1	
1	112	-114	-35	22	0	-12	-0	1.8	14.4	0.8	0.0	13.1	3	

**ASTA NUM. 112** NI 263 NF 290 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-27	33	22	2	12	0	0.4	14.3	0.8	2.1	11.7	3	
1	56	-40	1	22	2	-0	9	0.6	11.1	0.5	2.1	9.4	2	
1	112	-55	-35	22	2	-12	-0	0.9	14.4	0.8	2.1	12.2	3	



**ASTA NUM. 113** NI 208 NF 235 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-25	33	11	-2	6	0	0.4	7.2	0.8	1.5	6.1	3	
1	56	-39	1	11	-2	-0	9	0.6	11.1	0.3	1.5	9.3	2	
1	112	-54	-35	11	-2	-6	-0	0.8	7.3	0.8	1.5	6.6	3	

**ASTA NUM. 114** NI 235 NF 262 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-23	33	16	0	9	0	0.4	10.5	0.8	0.0	8.6	3	
1	56	-37	1	16	0	-0	9	0.6	11.1	0.4	0.0	9.3	1	
1	112	-52	-35	16	0	-9	-0	0.8	10.6	0.8	0.0	9.1	3	

**ASTA NUM. 115** NI 262 NF 289 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-11	33	16	2	9	0	0.2	10.4	0.8	1.6	8.4	3	
1	56	-25	1	16	2	-0	9	0.4	11.1	0.4	1.6	9.1	2	
1	112	-40	-35	16	2	-9	-0	0.6	10.5	0.8	1.6	8.9	3	

**ASTA NUM. 116** NI 207 NF 234 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-8	33	4	-1	2	0	0.1	2.7	0.8	0.6	2.2	3	
1	56	-22	1	4	-1	0	9	0.3	11.1	0.1	0.6	9.1	2	
1	112	-37	-35	4	-1	-2	-0	0.6	2.6	0.8	0.6	2.6	3	

**ASTA NUM. 117** NI 234 NF 261 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-2	33	8	0	5	0	0.0	5.3	0.8	0.0	4.2	3	
1	56	-16	1	8	0	-0	9	0.2	11.1	0.2	0.0	9.0	1	
1	112	-31	-35	8	0	-5	-0	0.5	5.3	0.8	0.0	4.7	3	

**ASTA NUM. 118** NI 261 NF 288 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	4	33	8	1	4	0	0.1	5.0	0.8	0.9	3.8	3	
1	56	-10	1	8	1	-0	9	0.2	11.1	0.2	0.9	8.9	2	
1	112	-25	-35	8	1	-4	-0	0.4	5.1	0.8	0.9	4.4	3	

**ASTA NUM. 119** NI 206 NF 233 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-6	33	-4	0	-2	0	0.1	2.8	0.8	0.3	2.3	3	
1	56	-20	1	-4	0	-0	9	0.3	11.1	0.1	0.3	9.0	2	
1	112	-35	-35	-4	0	2	-0	0.5	2.8	0.8	0.3	2.7	3	

**ASTA NUM. 120** NI 233 NF 260 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	3	33	-1	0	-0	0	0.0	0.4	0.8	0.0	0.3	3	
1	56	-11	1	-1	0	-0	9	0.2	11.1	0.0	0.0	8.9	1	
1	112	-26	-35	-1	0	0	-0	0.4	0.4	0.8	0.0	0.7	3	

**ASTA NUM. 121** NI 260 NF 287 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	33	-1	0	-1	0	0.1	0.8	0.8	0.0	0.7	3	
1	56	-5	1	-1	0	-0	9	0.1	11.1	0.0	0.0	8.8	1	
1	112	-20	-35	-1	0	1	-0	0.3	0.8	0.8	0.0	0.9	3	

**ASTA NUM. 122** NI 205 NF 232 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	33	-12	1	-7	0	0.0	8.0	0.8	1.0	6.0	3	
1	56	-13	1	-12	1	-0	9	0.2	11.1	0.3	1.0	8.9	2	
1	112	-28	-35	-12	1	7	-0	0.4	7.9	0.8	1.0	6.6	3	

**ASTA NUM. 123** NI 232 NF 259 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	9	33	-9	-0	-5	0	0.1	5.7	0.8	0.0	4.4	3	
1	56	-5	1	-9	-0	-0	9	0.1	11.1	0.2	0.0	8.8	2	
1	112	-20	-35	-9	-0	5	-0	0.3	5.7	0.8	0.0	4.8	3	

**ASTA NUM. 124** NI 259 NF 286 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	12	33	-10	-1	-5	0	0.2	6.2	0.8	0.8	4.9	3	
1	56	-2	1	-10	-1	0	9	0.0	11.1	0.2	0.8	8.8	2	
1	112	-17	-35	-10	-1	5	-0	0.3	6.3	0.8	0.8	5.2	3	

**ASTA NUM. 125** NI 204 NF 231 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	33	-18	2	-10	0	0.0	11.6	0.8	1.5	8.7	3	
1	56	-13	1	-18	2	-0	9	0.2	11.1	0.4	1.5	8.9	2	
1	112	-28	-35	-18	2	10	-0	0.4	11.6	0.8	1.5	9.6	3	

**ASTA NUM. 126** NI 231 NF 258 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	4	33	-15	-0	-8	0	0.1	9.9	0.8	0.0	7.5	3	
1	56	-10	1	-15	-0	0	9	0.2	11.1	0.4	0.0	8.9	1	
1	112	-25	-35	-15	-0	9	-0	0.4	10.0	0.8	0.0	8.2	3	

**ASTA NUM. 127** NI 258 NF 285 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	10	33	-16	-1	-9	0	0.2	10.7	0.8	1.3	8.1	3	
1	56	-4	1	-16	-1	0	9	0.1	11.1	0.4	1.3	8.8	2	
1	112	-19	-35	-16	-1	9	0	0.3	10.8	0.8	1.3	8.8	3	

**ASTA NUM. 128** NI 203 NF 230 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-53	33	-19	2	-11	0	0.8	12.4	0.8	1.8	10.6	3	
1	56	-67	1	-19	2	0	9	1.0	11.2	0.4	1.8	9.8	2	
1	112	-81	-35	-19	2	11	-0	1.3	12.6	0.8	1.8	11.2	3	

**ASTA NUM. 129** NI 230 NF 257 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-56	33	-18	-0	-10	0	0.9	11.7	0.8	0.0	10.0	3	
1	56	-70	1	-18	-0	0	9	1.1	11.2	0.4	0.0	9.9	1	
1	112	-85	-35	-18	-0	10	-0	1.3	12.0	0.8	0.0	10.7	3	

**ASTA NUM. 130** NI 257 NF 284 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-31	33	-20	-2	-11	0	0.5	13.2	0.8	1.6	10.8	3	
1	56	-45	1	-20	-2	0	9	0.7	11.3	0.5	1.6	9.6	2	
1	112	-60	-35	-20	-2	12	-0	0.9	13.5	0.8	1.6	11.6	3	

**ASTA NUM. 131** NI 202 NF 229 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-192	43	-14	2	-8	0	3.0	9.1	1.0	1.5	10.2	3	
1	56	-210	1	-14	2	0	12	3.3	14.5	0.3	1.5	14.7	2	
1	112	-229	-45	-14	2	8	0	3.6	9.6	1.1	1.5	11.1	3	

**ASTA NUM. 132** NI 229 NF 256 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-198	43	-15	-0	-8	0	3.1	9.3	1.0	0.0	10.4	3	
1	56	-216	1	-15	-0	0	12	3.4	14.6	0.3	0.0	14.8	1	
1	112	-235	-45	-15	-0	8	0	3.7	9.7	1.1	0.0	11.3	3	

**ASTA NUM. 133** NI 256 NF 283 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-185	43	-18	-1	-10	0	2.9	11.6	1.0	1.4	12.0	3	
1	56	-202	1	-18	-1	0	12	3.2	14.7	0.4	1.4	14.7	1	
1	112	-222	-45	-18	-1	11	0	3.5	12.4	1.1	1.4	13.2	3	

**ASTA NUM. 134** NI 201 NF 228 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-135	43	10	-0	5	0	2.1	6.3	1.0	0.5	7.1	3	
1	56	-153	1	10	-0	-0	12	2.4	14.5	0.2	0.5	13.8	1	
1	112	-172	-45	10	-0	-6	0	2.7	6.7	1.1	0.5	7.9	3	

**ASTA NUM. 135** NI 228 NF 255 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-179	43	13	0	7	0	2.8	8.3	1.0	0.0	9.3	3	
1	56	-197	1	13	0	-0	12	3.1	14.6	0.3	0.0	14.6	1	
1	112	-216	-45	13	0	-8	0	3.4	8.8	1.1	0.0	10.3	3	

**ASTA NUM. 136** NI 255 NF 282 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-144	43	15	1	8	0	2.3	9.5	1.0	0.6	9.7	3	
1	56	-162	1	15	1	-0	12	2.5	14.7	0.4	0.6	14.1	1	
1	112	-181	-45	15	1	-9	-0	2.8	10.2	1.1	0.6	10.9	3	

**ASTA NUM. 137** NI 200 NF 227 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-30	33	14	-1	8	0	0.5	9.3	0.8	0.7	7.8	3	
1	56	-44	1	14	-1	-0	9	0.7	11.1	0.3	0.7	9.4	2	
1	112	-58	-35	14	-1	-8	-0	0.9	9.4	0.8	0.7	8.3	3	

**ASTA NUM. 138** NI 227 NF 254 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-35	33	16	0	9	0	0.6	10.3	0.8	0.1	8.6	3	
1	56	-49	1	16	0	-0	9	0.8	11.2	0.4	0.1	9.6	1	
1	112	-64	-35	16	0	-9	-0	1.0	10.6	0.8	0.1	9.3	3	

**ASTA NUM. 139** NI 254 NF 281 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-17	33	16	1	9	0	0.3	10.6	0.8	0.9	8.6	3	
1	56	-31	1	16	1	-0	9	0.5	11.2	0.4	0.9	9.3	2	
1	112	-46	-35	16	1	-9	-0	0.7	10.9	0.8	0.9	9.3	3	

**ASTA NUM. 140** NI 199 NF 226 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	5	33	13	-1	7	0	0.1	8.3	0.8	0.5	6.3	3	
1	56	-9	1	13	-1	0	9	0.1	11.1	0.3	0.5	8.9	2	
1	112	-24	-35	13	-1	-7	0	0.4	8.2	0.8	0.5	6.8	3	

**ASTA NUM. 141** NI 226 NF 253 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	10	33	13	0	7	0	0.2	8.5	0.8	0.1	6.6	3	
1	56	-4	1	13	0	-0	9	0.1	11.1	0.3	0.1	8.8	1	
1	112	-19	-35	13	0	-7	0	0.3	8.6	0.8	0.1	7.0	3	

**ASTA NUM. 142** NI 253 NF 280 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	12	33	13	1	7	0	0.2	8.2	0.8	0.8	6.4	3	
1	56	-2	1	13	1	-0	9	0.0	11.1	0.3	0.8	8.8	2	
1	112	-17	-35	13	1	-7	-0	0.3	8.3	0.8	0.8	6.8	3	

**ASTA NUM. 143** NI 198 NF 225 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	2	33	7	-0	4	0	0.0	4.7	0.8	0.3	3.5	3	
1	56	-12	1	7	-0	0	9	0.2	11.1	0.2	0.3	8.9	1	
1	112	-27	-35	7	-0	-4	-0	0.4	4.6	0.8	0.3	4.0	3	

**ASTA NUM. 144** NI 225 NF 252 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	33	7	0	4	0	0.1	4.6	0.8	0.1	3.6	3	
1	56	-5	1	7	0	0	9	0.1	11.1	0.2	0.1	8.8	1	
1	112	-20	-35	7	0	-4	-0	0.3	4.6	0.8	0.1	4.0	3	



**ASTA NUM. 145** NI 252 NF 279 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	10	33	6	0	4	0	0.2	4.2	0.8	0.4	3.3	3	
1	56	-3	1	6	0	-0	9	0.0	11.1	0.2	0.4	8.8	2	
1	112	-18	-35	6	0	-4	-0	0.3	4.3	0.8	0.4	3.6	3	

**ASTA NUM. 146** NI 197 NF 224 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-4	33	-0	0	-0	0	0.1	0.1	0.8	0.1	0.2	3	
1	56	-17	1	-0	0	-0	9	0.3	11.1	0.0	0.1	9.0	2	
1	112	-32	-35	-0	0	0	0	0.5	0.1	0.8	0.1	0.6	3	

**ASTA NUM. 147** NI 224 NF 251 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	4	33	-0	0	-0	0	0.1	0.2	0.8	0.1	0.2	3	
1	56	-10	1	-0	0	-0	9	0.2	11.1	0.0	0.1	8.9	1	
1	112	-25	-35	-0	0	0	-0	0.4	0.2	0.8	0.1	0.5	3	

**ASTA NUM. 148** NI 251 NF 278 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	33	-1	-0	-0	0	0.1	0.5	0.8	0.1	0.5	3	
1	56	-6	1	-1	-0	0	9	0.1	11.1	0.0	0.1	8.8	2	
1	112	-21	-35	-1	-0	0	-0	0.3	0.5	0.8	0.1	0.7	3	

**ASTA NUM. 149** NI 196 NF 223 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	2	33	-7	0	-4	0	0.0	4.9	0.8	0.5	3.7	3	
1	56	-12	1	-7	0	-0	9	0.2	11.1	0.2	0.5	8.9	2	
1	112	-27	-35	-7	0	4	-0	0.4	4.9	0.8	0.5	4.2	3	

**ASTA NUM. 150** NI 223 NF 250 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	33	-8	0	-4	0	0.1	5.0	0.8	0.1	3.9	3	
1	56	-5	1	-8	0	-0	9	0.1	11.1	0.2	0.1	8.8	1	
1	112	-20	-35	-8	0	4	-0	0.3	5.0	0.8	0.1	4.3	3	

**ASTA NUM. 151** NI 250 NF 277 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	11	33	-8	-1	-5	0	0.2	5.3	0.8	0.6	4.1	3	
1	56	-3	1	-8	-1	0	9	0.0	11.1	0.2	0.6	8.8	2	
1	112	-18	-35	-8	-1	5	-0	0.3	5.3	0.8	0.6	4.4	3	

**ASTA NUM. 152** NI 195 NF 222 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	4	33	-13	1	-7	0	0.1	8.5	0.8	0.7	6.4	3	
1	56	-10	1	-13	1	-0	9	0.2	11.1	0.3	0.7	8.9	2	
1	112	-25	-35	-13	1	7	-0	0.4	8.4	0.8	0.7	7.0	3	

**ASTA NUM. 153** NI 222 NF 249 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	9	33	-14	0	-8	0	0.1	8.9	0.8	0.1	6.8	3	
1	56	-5	1	-14	0	0	9	0.1	11.1	0.3	0.1	8.8	1	
1	112	-20	-35	-14	0	8	-0	0.3	8.9	0.8	0.1	7.3	3	

**ASTA NUM. 154** NI 249 NF 276 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	12	33	-14	-1	-8	0	0.2	9.2	0.8	1.0	7.1	3	
1	56	-2	1	-14	-1	0	9	0.0	11.1	0.3	1.0	8.8	2	
1	112	-17	-35	-14	-1	8	-0	0.3	9.3	0.8	1.0	7.6	3	

**ASTA NUM. 155** NI 194 NF 221 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-32	33	-14	1	-8	0	0.5	9.3	0.8	0.8	7.8	3	
1	56	-45	1	-14	1	0	9	0.7	11.1	0.3	0.8	9.5	2	
1	112	-60	-35	-14	1	8	-0	0.9	9.4	0.8	0.8	8.4	3	

**ASTA NUM. 156** NI 221 NF 248 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-39	33	-16	0	-9	0	0.6	10.5	0.8	0.1	8.9	3	
1	56	-53	1	-16	0	0	9	0.8	11.2	0.4	0.1	9.7	1	
1	112	-68	-35	-16	0	9	-0	1.1	10.8	0.8	0.1	9.5	3	

**ASTA NUM. 157** NI 248 NF 275 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5376 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-21	33	-18	-1	-10	0	0.3	11.5	0.8	1.1	9.4	3	
1	56	-35	1	-18	-1	0	9	0.5	11.2	0.4	1.1	9.4	2	
1	112	-50	-35	-18	-1	10	-0	0.8	11.8	0.8	1.1	10.1	3	

**ASTA NUM. 158** NI 193 NF 220 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-134	43	-10	1	-5	0	2.1	6.2	1.0	0.6	7.0	3	
1	56	-152	1	-10	1	0	12	2.4	14.5	0.2	0.6	13.8	1	
1	112	-171	-45	-10	1	6	-0	2.7	6.6	1.1	0.6	7.8	3	

**ASTA NUM. 159** NI 220 NF 247 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-186	43	-13	0	-7	0	2.9	8.3	1.0	0.0	9.4	3	
1	56	-204	1	-13	0	0	12	3.2	14.6	0.3	0.0	14.7	1	
1	112	-223	-45	-13	0	8	-0	3.5	8.8	1.1	0.0	10.4	3	

**ASTA NUM. 160** NI 247 NF 274 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-156	43	-16	-1	-9	0	2.4	10.2	1.0	0.7	10.4	3	
1	56	-174	1	-16	-1	0	12	2.7	14.7	0.4	0.7	14.3	1	
1	112	-193	-45	-16	-1	9	-0	3.0	10.9	1.1	0.7	11.6	3	

**ASTA NUM. 161** NI 192 NF 219 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-187	43	15	-2	8	0	2.9	9.3	1.0	1.5	10.2	3	
1	56	-204	1	15	-2	-0	12	3.2	14.5	0.3	1.5	14.6	2	
1	112	-224	-45	15	-2	-8	-0	3.5	9.7	1.1	1.5	11.1	3	

**ASTA NUM. 162** NI 219 NF 246 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-184	43	15	-0	8	0	2.9	9.2	1.0	0.0	10.1	3	
1	56	-202	1	15	-0	-0	12	3.2	14.6	0.3	0.0	14.6	1	
1	112	-221	-45	15	-0	-8	-0	3.5	9.7	1.1	0.0	11.1	3	

**ASTA NUM. 163** NI 246 NF 273 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-168	43	17	1	9	0	2.6	10.8	1.0	1.3	11.1	3	
1	56	-185	1	17	1	-0	12	2.9	14.7	0.4	1.3	14.5	1	
1	112	-205	-45	17	1	-10	0	3.2	11.6	1.1	1.3	12.3	3	

**ASTA NUM. 164** NI 191 NF 218 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-49	33	19	-2	11	0	0.8	12.4	0.8	1.8	10.5	3	
1	56	-63	1	19	-2	-0	9	1.0	11.2	0.4	1.8	9.8	2	
1	112	-78	-35	19	-2	-11	-0	1.2	12.6	0.8	1.8	11.1	3	

**ASTA NUM. 165** NI 218 NF 245 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-50	33	18	-0	10	0	0.8	11.5	0.8	0.1	9.8	3	
1	56	-64	1	18	-0	-0	9	1.0	11.2	0.4	0.1	9.8	1	
1	112	-79	-35	18	-0	-10	0	1.2	11.8	0.8	0.1	10.5	3	

**ASTA NUM. 166** NI 245 NF 272 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-27	33	19	2	10	0	0.4	12.2	0.8	1.6	10.0	3	
1	56	-40	1	19	2	-0	9	0.6	11.2	0.4	1.6	9.5	2	
1	112	-55	-35	19	2	-11	-0	0.9	12.6	0.8	1.6	10.7	3	

**ASTA NUM. 167** NI 190 NF 217 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	33	18	-2	10	0	0.0	11.5	0.8	1.6	8.7	3	
1	56	-13	1	18	-2	0	9	0.2	11.1	0.4	1.6	8.9	2	
1	112	-28	-35	18	-2	-10	-0	0.4	11.5	0.8	1.6	9.4	3	

**ASTA NUM. 168** NI 217 NF 244 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	4	33	15	-0	8	0	0.1	9.6	0.8	0.1	7.3	3	
1	56	-9	1	15	-0	-0	9	0.1	11.1	0.3	0.1	8.9	1	
1	112	-24	-35	15	-0	-8	-0	0.4	9.7	0.8	0.1	8.0	3	

**ASTA NUM. 169** NI 244 NF 271 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	10	33	15	1	8	0	0.2	9.7	0.8	1.3	7.4	3	
1	56	-4	1	15	1	-0	9	0.1	11.1	0.3	1.3	8.8	2	
1	112	-19	-35	15	1	-8	0	0.3	9.8	0.8	1.3	8.0	3	

**ASTA NUM. 170** NI 189 NF 216 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	33	12	-1	7	0	0.0	7.8	0.8	1.1	5.9	3	
1	56	-12	1	12	-1	0	9	0.2	11.1	0.3	1.1	8.9	2	
1	112	-27	-35	12	-1	-7	-0	0.4	7.7	0.8	1.1	6.5	3	

**ASTA NUM. 171** NI 216 NF 243 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	9	33	8	-0	5	0	0.1	5.5	0.8	0.1	4.2	3	
1	56	-5	1	8	-0	-0	9	0.1	11.1	0.2	0.1	8.8	2	
1	112	-20	-35	8	-0	-5	-0	0.3	5.5	0.8	0.1	4.6	3	

**ASTA NUM. 172** NI 243 NF 270 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	11	33	8	1	4	0	0.2	5.2	0.8	0.8	4.1	3	
1	56	-2	1	8	1	-0	9	0.0	11.1	0.2	0.8	8.8	2	
1	112	-17	-35	8	1	-4	-0	0.3	5.3	0.8	0.8	4.4	3	

**ASTA NUM. 173** NI 188 NF 215 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-5	33	4	-0	2	0	0.1	2.7	0.8	0.4	2.2	3	
1	56	-18	1	4	-0	0	9	0.3	11.1	0.1	0.4	9.0	2	
1	112	-33	-35	4	-0	-2	0	0.5	2.6	0.8	0.4	2.6	3	

**ASTA NUM. 174** NI 215 NF 242 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	4	33	0	-0	0	0	0.1	0.1	0.8	0.1	0.1	3	
1	56	-9	1	0	-0	-0	9	0.1	11.1	0.0	0.1	8.9	1	
1	112	-24	-35	0	-0	-0	0	0.4	0.1	0.8	0.1	0.5	3	

**ASTA NUM. 175** NI 242 NF 269 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	9	33	-0	0	-0	0	0.1	0.2	0.8	0.0	0.3	3	
1	56	-4	1	-0	0	0	9	0.1	11.1	0.0	0.0	8.8	1	
1	112	-19	-35	-0	0	0	0	0.3	0.2	0.8	0.0	0.5	3	

**ASTA NUM. 176** NI 187 NF 214 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-6	33	-4	1	-2	0	0.1	2.7	0.8	0.5	2.2	3	
1	56	-20	1	-4	1	-0	9	0.3	11.1	0.1	0.5	9.0	2	
1	112	-35	-35	-4	1	2	-0	0.5	2.7	0.8	0.5	2.7	3	



**ASTA NUM. 177** NI 214 NF 241 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-0	33	-8	-0	-5	0	0.0	5.5	0.8	0.1	4.3	3	
1	56	-14	1	-8	-0	0	9	0.2	11.1	0.2	0.1	8.9	2	
1	112	-29	-35	-8	-0	5	-0	0.5	5.5	0.8	0.1	4.8	3	

**ASTA NUM. 178** NI 241 NF 268 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	5	33	-9	-1	-5	0	0.1	6.0	0.8	0.8	4.6	3	
1	56	-9	1	-9	-1	0	9	0.1	11.1	0.2	0.8	8.9	2	
1	112	-24	-35	-9	-1	5	-0	0.4	6.0	0.8	0.8	5.1	3	

**ASTA NUM. 179** NI 186 NF 213 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-28	33	-11	2	-6	0	0.4	7.2	0.8	1.4	6.1	3	
1	56	-41	1	-11	2	0	9	0.6	11.1	0.3	1.4	9.4	2	
1	112	-56	-35	-11	2	6	0	0.9	7.2	0.8	1.4	6.6	3	

**ASTA NUM. 180** NI 213 NF 240 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-26	33	-16	-0	-9	0	0.4	10.6	0.8	0.1	8.7	3	
1	56	-40	1	-16	-0	0	9	0.6	11.2	0.4	0.1	9.4	1	
1	112	-55	-35	-16	-0	9	-0	0.9	10.7	0.8	0.1	9.3	3	

**ASTA NUM. 181** NI 240 NF 267 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-12	33	-18	-2	-10	0	0.2	11.4	0.8	1.5	9.1	3	
1	56	-25	1	-18	-2	0	9	0.4	11.2	0.4	1.5	9.2	2	
1	112	-40	-35	-18	-2	10	-0	0.6	11.5	0.8	1.5	9.7	3	

**ASTA NUM. 182** NI 185 NF 212 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-135	33	-15	2	-8	0	2.1	9.6	0.8	2.2	9.7	3	
1	56	-149	1	-15	2	0	9	2.3	11.3	0.4	2.2	11.2	2	
1	112	-164	-35	-15	2	9	-0	2.6	10.0	0.8	2.2	10.4	3	

**ASTA NUM. 183** NI 212 NF 239 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-101	33	-22	-0	-12	0	1.6	14.2	0.8	0.0	12.7	3	
1	56	-114	1	-22	-0	0	9	1.8	11.2	0.5	0.0	10.6	1	
1	112	-129	-35	-22	-0	12	-0	2.0	14.4	0.8	0.0	13.4	3	

**ASTA NUM. 184** NI 239 NF 266 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-40	33	-23	-2	-13	0	0.6	15.3	0.8	1.9	12.6	3	
1	56	-54	1	-23	-2	0	9	0.8	11.2	0.6	1.9	9.6	2	
1	112	-69	-35	-23	-2	13	0	1.1	15.4	0.8	1.9	13.2	3	

**ASTA NUM. 185** NI 184 NF 211 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.1104 0.3187 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-357	17	-15	3	-8	0	5.6	9.4	0.4	2.6	12.9	3	
1	56	-364	0	-15	3	0	5	5.7	6.0	0.3	2.6	10.4	2	
1	112	-372	-18	-15	3	8	0	5.8	9.7	0.4	2.6	13.4	3	

**ASTA NUM. 186** NI 211 NF 238 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.1104 0.3187 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-188	17	-21	0	-12	0	2.9	13.8	0.5	0.0	13.8	3	
1	56	-195	0	-21	0	0	5	3.0	5.8	0.5	0.0	7.6	2	
1	112	-203	-18	-21	0	12	-0	3.2	13.8	0.5	0.0	14.0	3	

**ASTA NUM. 187** NI 238 NF 265 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.1104 0.3187 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-61	17	-22	-2	-12	0	1.0	14.5	0.5	2.0	12.4	3	
1	56	-68	0	-22	-2	0	5	1.1	5.9	0.5	2.0	5.7	2	
1	112	-76	-18	-22	-2	13	-0	1.2	14.7	0.5	2.0	12.7	3	

**ASTA NUM. 188** NI 318 NF 345 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.1104 0.3187 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-45	18	-22	-2	-12	0	0.7	14.2	0.5	2.1	11.9	3	
1	56	-37	-0	-22	-2	-0	5	0.6	5.9	0.5	2.1	5.2	2	
1	112	-30	-17	-22	-2	12	0	0.5	14.1	0.5	2.1	11.6	3	

**ASTA NUM. 189** NI 345 NF 372 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.1104 0.3187 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-186	18	-21	0	-12	0	2.9	14.0	0.5	0.0	13.9	3	
1	56	-179	-0	-21	0	-0	5	2.8	5.8	0.5	0.0	7.4	2	
1	112	-171	-17	-21	0	12	-0	2.7	14.0	0.5	0.0	13.7	3	

**ASTA NUM. 190** NI 372 NF 399 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.1104 0.3187 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-364	18	-15	3	-8	0	5.7	9.9	0.4	2.6	13.4	3	
1	56	-356	-0	-15	3	-0	5	5.6	6.0	0.3	2.6	10.3	2	
1	112	-349	-17	-15	3	8	0	5.5	9.6	0.4	2.6	13.0	3	

**ASTA NUM. 191** NI 317 NF 344 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-61	35	-23	-2	-13	0	1.0	14.8	0.8	2.0	12.6	3	
1	56	-47	-1	-23	-2	-0	9	0.7	11.1	0.5	2.0	9.5	2	
1	112	-33	-33	-23	-2	13	0	0.5	14.7	0.8	2.0	12.1	3	

**ASTA NUM. 192** NI 344 NF 371 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-121	35	-22	0	-12	0	1.9	14.5	0.8	0.0	13.3	3	
1	56	-106	-1	-22	0	-0	9	1.7	11.2	0.5	0.0	10.5	1	
1	112	-93	-33	-22	0	12	-0	1.4	14.3	0.8	0.0	12.6	3	

**ASTA NUM. 193** NI 371 NF 398 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-158	35	-15	2	-9	0	2.5	10.1	0.8	2.3	10.4	3		
1	56	-143	-1	-15	2	-0	9	2.2	11.3	0.4	2.3	11.1	2		
1	112	-129	-33	-15	2	8	0	2.0	9.7	0.8	2.3	9.7	3		

**ASTA NUM. 194** NI 316 NF 343 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-40	35	-17	-2	-9	0	0.6	10.9	0.8	1.6	9.2	3		
1	56	-25	-1	-17	-2	-0	9	0.4	11.2	0.4	1.6	9.2	2		
1	112	-12	-33	-17	-2	9	0	0.2	10.8	0.8	1.6	8.7	3		

**ASTA NUM. 195** NI 343 NF 370 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-53	35	-16	-0	-9	0	0.8	10.7	0.8	0.0	9.2	3		
1	56	-38	-1	-16	-0	-0	9	0.6	11.1	0.4	0.0	9.4	1		
1	112	-25	-33	-16	-0	9	-0	0.4	10.6	0.8	0.0	8.7	3		

**ASTA NUM. 196** NI 370 NF 397 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota	
	cm	kg			kg*m			kg/cmq							
1	0	-55	35	-11	2	-6	0	0.9	7.2	0.8	1.5	6.5	3		
1	56	-40	-1	-11	2	-0	9	0.6	11.1	0.3	1.5	9.4	2		
1	112	-26	-33	-11	2	6	0	0.4	7.2	0.8	1.5	6.0	3		

**ASTA NUM. 197** NI 315 NF 342 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-24	35	-8	-1	-5	0	0.4	5.4	0.8	0.9	4.6	3	
1	56	-9	-1	-8	-1	-0	9	0.1	11.1	0.2	0.9	8.9	2	
1	112	4	-33	-8	-1	5	0	0.1	5.4	0.8	0.9	4.1	3	

**ASTA NUM. 198** NI 342 NF 369 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-30	35	-8	-0	-5	0	0.5	5.5	0.8	0.0	4.8	3	
1	56	-15	-1	-8	-0	-0	9	0.2	11.1	0.2	0.0	8.9	1	
1	112	-1	-33	-8	-0	5	-0	0.0	5.5	0.8	0.0	4.3	3	

**ASTA NUM. 199** NI 369 NF 396 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-35	35	-4	1	-2	0	0.5	2.7	0.8	0.6	2.6	3	
1	56	-20	-1	-4	1	0	9	0.3	11.1	0.1	0.6	9.0	2	
1	112	-7	-33	-4	1	2	0	0.1	2.7	0.8	0.6	2.2	3	

**ASTA NUM. 200** NI 314 NF 341 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-20	35	1	-0	0	0	0.3	0.4	0.8	0.1	0.6	3	
1	56	-5	-1	1	-0	-0	9	0.1	11.1	0.0	0.1	8.8	1	
1	112	9	-33	1	-0	-0	0	0.1	0.4	0.8	0.1	0.5	3	

**ASTA NUM. 201** NI 341 NF 368 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-25	35	0	-0	0	0	0.4	0.2	0.8	0.0	0.5	3	
1	56	-10	-1	0	-0	-0	9	0.2	11.1	0.0	0.0	8.9	1	
1	112	4	-33	0	-0	-0	-0	0.1	0.2	0.8	0.0	0.2	3	

**ASTA NUM. 202** NI 368 NF 395 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-34	35	4	-0	2	0	0.5	2.7	0.8	0.3	2.6	3	
1	56	-19	-1	4	-0	-0	9	0.3	11.1	0.1	0.3	9.0	2	
1	112	-5	-33	4	-0	-2	0	0.1	2.7	0.8	0.3	2.2	3	

**ASTA NUM. 203** NI 313 NF 340 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-17	35	9	1	5	0	0.3	5.9	0.8	0.7	4.9	3	
1	56	-2	-1	9	1	0	9	0.0	11.1	0.2	0.7	8.7	2	
1	112	12	-33	9	1	-5	0	0.2	5.9	0.8	0.7	4.6	3	

**ASTA NUM. 204** NI 340 NF 367 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-20	35	8	-0	5	0	0.3	5.5	0.8	0.0	4.7	3	
1	56	-5	-1	8	-0	0	9	0.1	11.1	0.2	0.0	8.8	2	
1	112	9	-33	8	-0	-5	-0	0.1	5.5	0.8	0.0	4.3	3	

**ASTA NUM. 205** NI 367 NF 394 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-27	35	12	-1	7	0	0.4	7.8	0.8	1.0	6.5	3	
1	56	-12	-1	12	-1	-0	9	0.2	11.1	0.3	1.0	8.9	2	
1	112	1	-33	12	-1	-7	0	0.0	7.9	0.8	1.0	5.9	3	

**ASTA NUM. 206** NI 312 NF 339 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-19	35	16	1	9	0	0.3	10.5	0.8	1.3	8.5	3	
1	56	-4	-1	16	1	0	9	0.1	11.1	0.4	1.3	8.8	2	
1	112	9	-33	16	1	-9	-0	0.1	10.4	0.8	1.3	7.9	3	

**ASTA NUM. 207** NI 339 NF 366 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-26	35	15	-0	8	0	0.4	9.8	0.8	0.0	8.1	3	
1	56	-11	-1	15	-0	0	9	0.2	11.1	0.3	0.0	8.9	1	
1	112	3	-33	15	-0	-8	-0	0.0	9.7	0.8	0.0	7.3	3	

**ASTA NUM. 208** NI 366 NF 393 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-29	35	18	-2	10	0	0.5	11.5	0.8	1.5	9.5	3	
1	56	-14	-1	18	-2	-0	9	0.2	11.1	0.4	1.5	8.9	2	
1	112	-0	-33	18	-2	-10	-0	0.0	11.5	0.8	1.5	9.0	3	



**ASTA NUM. 209** NI 311 NF 338 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-62	35	20	2	11	0	1.0	13.3	0.8	1.5	11.4	3	
1	56	-47	-1	20	2	0	9	0.7	11.3	0.5	1.5	9.6	2	
1	112	-33	-33	20	2	-11	0	0.5	12.9	0.8	1.5	10.7	3	

**ASTA NUM. 210** NI 338 NF 365 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-87	35	18	-0	10	0	1.4	11.8	0.8	0.0	10.6	3	
1	56	-72	-1	18	-0	0	9	1.1	11.3	0.4	0.0	10.0	1	
1	112	-58	-33	18	-0	-10	-0	0.9	11.5	0.8	0.0	9.9	3	

**ASTA NUM. 211** NI 365 NF 392 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-84	35	19	-2	11	0	1.3	12.5	0.8	1.8	11.1	3	
1	56	-69	-1	19	-2	0	9	1.1	11.2	0.4	1.8	9.9	2	
1	112	-55	-33	19	-2	-11	0	0.9	12.3	0.8	1.8	10.5	3	

**ASTA NUM. 212** NI 310 NF 337 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-227	45	18	1	10	0	3.5	12.2	1.1	1.3	13.1	3	
1	56	-208	-1	18	1	0	12	3.2	14.7	0.4	1.3	14.8	1	
1	112	-190	-43	18	1	-10	0	3.0	11.4	1.0	1.3	11.9	3	

**ASTA NUM. 213** NI 337 NF 364 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-236	45	14	-0	8	0	3.7	9.6	1.1	0.0	11.3	3	
1	56	-217	-1	14	-0	0	12	3.4	14.6	0.3	0.0	14.9	1	
1	112	-200	-43	14	-0	-8	0	3.1	9.2	1.0	0.0	10.3	3	

**ASTA NUM. 214** NI 364 NF 391 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-234	45	14	-2	8	0	3.7	9.5	1.1	1.6	11.1	3	
1	56	-215	-1	14	-2	0	12	3.4	14.6	0.3	1.6	14.8	2	
1	112	-197	-43	14	-2	-8	0	3.1	9.1	1.0	1.6	10.2	3	

**ASTA NUM. 215** NI 309 NF 336 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-175	45	-15	-1	-9	0	2.7	10.1	1.1	0.6	10.7	3	
1	56	-156	-1	-15	-1	-0	12	2.4	14.7	0.4	0.6	14.0	1	
1	112	-138	-43	-15	-1	8	0	2.2	9.4	1.0	0.6	9.6	3	

**ASTA NUM. 216** NI 336 NF 363 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-214	45	-13	-0	-7	0	3.3	8.8	1.1	0.0	10.2	3	
1	56	-194	-1	-13	-0	-0	12	3.0	14.6	0.3	0.0	14.5	1	
1	112	-177	-43	-13	-0	7	0	2.8	8.2	1.0	0.0	9.2	3	

**ASTA NUM. 217** NI 363 NF 390 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-167	45	-10	0	-6	0	2.6	6.5	1.1	0.4	7.8	3	
1	56	-148	-1	-10	0	-0	12	2.3	14.5	0.2	0.4	13.7	1	
1	112	-130	-43	-10	0	5	0	2.0	6.2	1.0	0.4	6.9	3	

**ASTA NUM. 218** NI 308 NF 335 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-44	35	-16	-1	-9	0	0.7	10.7	0.8	0.9	9.1	3	
1	56	-29	-1	-16	-1	-0	9	0.5	11.2	0.4	0.9	9.3	2	
1	112	-15	-33	-16	-1	9	0	0.2	10.5	0.8	0.9	8.5	3	

**ASTA NUM. 219** NI 335 NF 362 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-62	35	-16	-0	-9	0	1.0	10.4	0.8	0.0	9.2	3	
1	56	-47	-1	-16	-0	-0	9	0.7	11.2	0.4	0.0	9.6	1	
1	112	-33	-33	-16	-0	9	-0	0.5	10.2	0.8	0.0	8.5	3	

**ASTA NUM. 220** NI 362 NF 389 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-56	35	-14	1	-8	0	0.9	9.2	0.8	0.7	8.1	3	
1	56	-41	-1	-14	1	-0	9	0.6	11.1	0.3	0.7	9.4	2	
1	112	-28	-33	-14	1	8	0	0.4	9.1	0.8	0.7	7.6	3	

**ASTA NUM. 221** NI 307 NF 334 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-16	35	-12	-1	-7	0	0.3	8.1	0.8	0.8	6.6	3	
1	56	-2	-1	-12	-1	-0	9	0.0	11.1	0.3	0.8	8.8	2	
1	112	12	-33	-12	-1	7	0	0.2	8.1	0.8	0.8	6.2	3	

**ASTA NUM. 222** NI 334 NF 361 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-18	35	-13	-0	-7	0	0.3	8.4	0.8	0.0	6.9	3	
1	56	-3	-1	-13	-0	-0	9	0.1	11.1	0.3	0.0	8.8	1	
1	112	10	-33	-13	-0	7	-0	0.2	8.4	0.8	0.0	6.4	3	

**ASTA NUM. 223** NI 361 NF 388 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-23	35	-12	1	-7	0	0.4	8.0	0.8	0.6	6.7	3	
1	56	-8	-1	-12	1	0	9	0.1	11.1	0.3	0.6	8.9	2	
1	112	5	-33	-12	1	7	0	0.1	8.1	0.8	0.6	6.2	3	

**ASTA NUM. 224** NI 306 NF 333 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-18	35	-6	-0	-3	0	0.3	4.0	0.8	0.4	3.5	3	
1	56	-3	-1	-6	-0	-0	9	0.1	11.1	0.1	0.4	8.8	2	
1	112	10	-33	-6	-0	3	0	0.2	4.0	0.8	0.4	3.2	3	

**ASTA NUM. 225** NI 333 NF 360 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-20	35	-7	-0	-4	0	0.3	4.5	0.8	0.0	3.8	3	
1	56	-5	-1	-7	-0	0	9	0.1	11.1	0.2	0.0	8.8	1	
1	112	8	-33	-7	-0	4	-0	0.1	4.5	0.8	0.0	3.5	3	

**ASTA NUM. 226** NI 360 NF 387 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-27	35	-7	0	-4	0	0.4	4.4	0.8	0.3	3.9	3	
1	56	-12	-1	-7	0	0	9	0.2	11.1	0.2	0.3	8.9	1	
1	112	2	-33	-7	0	4	0	0.0	4.5	0.8	0.3	3.4	3	

**ASTA NUM. 227** NI 305 NF 332 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-21	35	1	0	1	0	0.3	0.7	0.8	0.1	0.9	3	
1	56	-6	-1	1	0	0	9	0.1	11.1	0.0	0.1	8.8	2	
1	112	8	-33	1	0	-1	0	0.1	0.7	0.8	0.1	0.7	3	

**ASTA NUM. 228** NI 332 NF 359 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-25	35	1	-0	0	0	0.4	0.4	0.8	0.0	0.7	3	
1	56	-10	-1	1	-0	-0	9	0.2	11.1	0.0	0.0	8.9	1	
1	112	4	-33	1	-0	-0	-0	0.1	0.4	0.8	0.0	0.3	3	

**ASTA NUM. 229** NI 359 NF 386 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-32	35	0	-0	0	0	0.5	0.3	0.8	0.1	0.8	3	
1	56	-17	-1	0	-0	-0	9	0.3	11.1	0.0	0.1	9.0	1	
1	112	-4	-33	0	-0	-0	0	0.1	0.3	0.8	0.1	0.3	3	

**ASTA NUM. 230** NI 304 NF 331 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-18	35	8	1	5	0	0.3	5.5	0.8	0.7	4.6	3	
1	56	-3	-1	8	1	0	9	0.0	11.1	0.2	0.7	8.8	2	
1	112	11	-33	8	1	-5	0	0.2	5.5	0.8	0.7	4.3	3	

**ASTA NUM. 231** NI 331 NF 358 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-20	35	8	-0	4	0	0.3	5.2	0.8	0.0	4.4	3	
1	56	-5	-1	8	-0	-0	9	0.1	11.1	0.2	0.0	8.8	1	
1	112	8	-33	8	-0	-4	-0	0.1	5.2	0.8	0.0	4.0	3	

**ASTA NUM. 232** NI 358 NF 385 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-27	35	8	-0	4	0	0.4	5.0	0.8	0.4	4.4	3	
1	56	-12	-1	8	-0	-0	9	0.2	11.1	0.2	0.4	8.9	2	
1	112	2	-33	8	-0	-4	0	0.0	5.1	0.8	0.4	3.9	3	

**ASTA NUM. 233** NI 303 NF 330 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-17	35	14	1	8	0	0.3	9.5	0.8	1.0	7.7	3	
1	56	-2	-1	14	1	0	9	0.0	11.1	0.3	1.0	8.8	2	
1	112	12	-33	14	1	-8	0	0.2	9.4	0.8	1.0	7.3	3	

**ASTA NUM. 234** NI 330 NF 357 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-20	35	14	-0	8	0	0.3	9.0	0.8	0.0	7.4	3	
1	56	-5	-1	14	-0	0	9	0.1	11.1	0.3	0.0	8.8	1	
1	112	9	-33	14	-0	-8	-0	0.1	9.0	0.8	0.0	6.9	3	

**ASTA NUM. 235** NI 357 NF 384 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-25	35	13	-1	7	0	0.4	8.5	0.8	0.7	7.1	3	
1	56	-10	-1	13	-1	-0	9	0.2	11.1	0.3	0.7	8.9	2	
1	112	4	-33	13	-1	-7	0	0.1	8.6	0.8	0.7	6.5	3	

**ASTA NUM. 236** NI 302 NF 329 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-51	35	18	1	10	0	0.8	12.0	0.8	1.1	10.2	3	
1	56	-36	-1	18	1	0	9	0.6	11.2	0.4	1.1	9.4	2	
1	112	-22	-33	18	1	-10	0	0.3	11.7	0.8	1.1	9.5	3	

**ASTA NUM. 237** NI 329 NF 356 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-69	35	16	-0	9	0	1.1	10.9	0.8	0.0	9.6	3	
1	56	-54	-1	16	-0	0	9	0.8	11.2	0.4	0.0	9.7	1	
1	112	-40	-33	16	-0	-9	-0	0.6	10.6	0.8	0.0	8.9	3	

**ASTA NUM. 238** NI 356 NF 383 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-61	35	14	-1	8	0	0.9	9.5	0.8	0.8	8.4	3	
1	56	-46	-1	14	-1	0	9	0.7	11.1	0.3	0.8	9.5	2	
1	112	-32	-33	14	-1	-8	0	0.5	9.4	0.8	0.8	7.9	3	

**ASTA NUM. 239** NI 301 NF 328 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-198	45	16	1	9	0	3.1	11.0	1.1	0.7	11.7	3	
1	56	-178	-1	16	1	0	12	2.8	14.7	0.4	0.7	14.3	1	
1	112	-161	-43	16	1	-9	-0	2.5	10.3	1.0	0.7	10.6	3	

**ASTA NUM. 240** NI 328 NF 355 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-224	45	13	-0	8	0	3.5	8.8	1.1	0.0	10.5	3	
1	56	-205	-1	13	-0	0	12	3.2	14.6	0.3	0.0	14.7	1	
1	112	-188	-43	13	-0	-7	0	2.9	8.3	1.0	0.0	9.5	3	



**ASTA NUM. 241** NI 355 NF 382 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-171	45	10	-1	6	0	2.7	6.6	1.1	0.5	7.9	3	
1	56	-152	-1	10	-1	0	12	2.4	14.5	0.2	0.5	13.8	1	
1	112	-134	-43	10	-1	-5	-0	2.1	6.3	1.0	0.5	7.0	3	

**ASTA NUM. 242** NI 300 NF 327 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-200	45	-17	-1	-10	0	3.1	11.5	1.1	1.3	12.2	3	
1	56	-181	-1	-17	-1	-0	12	2.8	14.7	0.4	1.3	14.4	1	
1	112	-163	-43	-17	-1	9	0	2.5	10.8	1.0	1.3	11.0	3	

**ASTA NUM. 243** NI 327 NF 354 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-219	45	-15	0	-8	0	3.4	9.8	1.1	0.0	11.1	3	
1	56	-200	-1	-15	0	-0	12	3.1	14.6	0.3	0.0	14.6	1	
1	112	-182	-43	-15	0	8	0	2.8	9.3	1.0	0.0	10.2	3	

**ASTA NUM. 244** NI 354 NF 381 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2209 0.7868 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-224	45	-15	2	-8	0	3.5	9.7	1.1	1.5	11.1	3	
1	56	-204	-1	-15	2	-0	12	3.2	14.6	0.3	1.5	14.6	2	
1	112	-187	-43	-15	2	8	0	2.9	9.3	1.0	1.5	10.2	3	

**ASTA NUM. 245** NI 299 NF 326 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-54	35	-19	-2	-11	0	0.8	12.5	0.8	1.6	10.6	3	
1	56	-39	-1	-19	-2	-0	9	0.6	11.2	0.4	1.6	9.4	2	
1	112	-26	-33	-19	-2	10	0	0.4	12.2	0.8	1.6	9.9	3	

**ASTA NUM. 246** NI 326 NF 353 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-78	35	-18	0	-10	0	1.2	11.8	0.8	0.1	10.5	3	
1	56	-63	-1	-18	0	-0	9	1.0	11.2	0.4	0.1	9.8	1	
1	112	-49	-33	-18	0	10	-0	0.8	11.5	0.8	0.1	9.8	3	

**ASTA NUM. 247** NI 353 NF 380 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-77	35	-19	2	-11	0	1.2	12.6	0.8	1.8	11.1	3	
1	56	-62	-1	-19	2	-0	9	1.0	11.2	0.4	1.8	9.7	2	
1	112	-49	-33	-19	2	11	0	0.8	12.4	0.8	1.8	10.5	3	

**ASTA NUM. 248** NI 298 NF 325 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-19	35	-15	-1	-8	0	0.3	9.7	0.8	1.3	7.9	3	
1	56	-4	-1	-15	-1	-0	9	0.1	11.1	0.3	1.3	8.8	2	
1	112	10	-33	-15	-1	8	-0	0.2	9.6	0.8	1.3	7.3	3	

**ASTA NUM. 249** NI 325 NF 352 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-24	35	-15	0	-8	0	0.4	9.7	0.8	0.1	8.0	3	
1	56	-9	-1	-15	0	-0	9	0.1	11.1	0.3	0.1	8.9	1	
1	112	5	-33	-15	0	8	-0	0.1	9.6	0.8	0.1	7.3	3	

**ASTA NUM. 250** NI 352 NF 379 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-27	35	-18	2	-10	0	0.4	11.5	0.8	1.6	9.5	3	
1	56	-12	-1	-18	2	0	9	0.2	11.1	0.4	1.6	8.9	2	
1	112	1	-33	-18	2	10	-0	0.0	11.5	0.8	1.6	8.7	3	

**ASTA NUM. 251** NI 297 NF 324 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-17	35	-8	-1	-4	0	0.3	5.2	0.8	0.8	4.3	3	
1	56	-2	-1	-8	-1	-0	9	0.0	11.1	0.2	0.8	8.8	2	
1	112	11	-33	-8	-1	4	0	0.2	5.1	0.8	0.8	4.0	3	

**ASTA NUM. 252** NI 324 NF 351 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-20	35	-8	0	-5	0	0.3	5.5	0.8	0.1	4.6	3	
1	56	-5	-1	-8	0	-0	9	0.1	11.1	0.2	0.1	8.8	2	
1	112	9	-33	-8	0	5	0	0.1	5.5	0.8	0.1	4.2	3	

**ASTA NUM. 253** NI 351 NF 378 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-27	35	-12	1	-7	0	0.4	7.7	0.8	1.1	6.5	3	
1	56	-12	-1	-12	1	0	9	0.2	11.1	0.3	1.1	8.9	2	
1	112	1	-33	-12	1	7	0	0.0	7.8	0.8	1.1	5.9	3	

**ASTA NUM. 254** NI 296 NF 323 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-19	35	0	-0	0	0	0.3	0.3	0.8	0.0	0.5	3	
1	56	-5	-1	0	-0	0	9	0.1	11.1	0.0	0.0	8.8	1	
1	112	9	-33	0	-0	-0	-0	0.1	0.3	0.8	0.0	0.4	3	

**ASTA NUM. 255** NI 323 NF 350 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-24	35	-0	0	-0	0	0.4	0.1	0.8	0.1	0.5	3	
1	56	-9	-1	-0	0	-0	9	0.1	11.1	0.0	0.1	8.9	1	
1	112	4	-33	-0	0	0	-0	0.1	0.1	0.8	0.1	0.1	3	

**ASTA NUM. 256** NI 350 NF 377 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-33	35	-4	0	-2	0	0.5	2.6	0.8	0.4	2.6	3	
1	56	-18	-1	-4	0	0	9	0.3	11.1	0.1	0.4	9.0	2	
1	112	-5	-33	-4	0	2	-0	0.1	2.7	0.8	0.4	2.2	3	

**ASTA NUM. 257** NI 295 NF 322 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-24	35	9	1	5	0	0.4	6.1	0.8	0.8	5.2	3	
1	56	-9	-1	9	1	0	9	0.1	11.1	0.2	0.8	8.9	2	
1	112	5	-33	9	1	-5	0	0.1	6.1	0.8	0.8	4.6	3	

**ASTA NUM. 258** NI 322 NF 349 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-29	35	8	0	5	0	0.5	5.6	0.8	0.1	4.8	3	
1	56	-14	-1	8	0	0	9	0.2	11.1	0.2	0.1	8.9	2	
1	112	-0	-33	8	0	-5	0	0.0	5.5	0.8	0.1	4.4	3	

**ASTA NUM. 259** NI 349 NF 376 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-35	35	4	-1	2	0	0.5	2.7	0.8	0.5	2.7	3	
1	56	-20	-1	4	-1	-0	9	0.3	11.1	0.1	0.5	9.0	2	
1	112	-6	-33	4	-1	-2	0	0.1	2.7	0.8	0.5	2.2	3	

**ASTA NUM. 260** NI 294 NF 321 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-40	35	18	2	10	0	0.6	11.6	0.8	1.5	9.8	3	
1	56	-25	-1	18	2	0	9	0.4	11.2	0.4	1.5	9.2	2	
1	112	-12	-33	18	2	-10	0	0.2	11.5	0.8	1.5	9.2	3	

**ASTA NUM. 261** NI 321 NF 348 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-55	35	16	0	9	0	0.9	10.7	0.8	0.1	9.3	3	
1	56	-40	-1	16	0	0	9	0.6	11.2	0.4	0.1	9.4	1	
1	112	-26	-33	16	0	-9	-0	0.4	10.6	0.8	0.1	8.7	3	

**ASTA NUM. 262** NI 348 NF 375 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-56	35	11	-2	6	0	0.9	7.2	0.8	1.4	6.6	3	
1	56	-41	-1	11	-2	0	9	0.6	11.1	0.3	1.4	9.4	2	
1	112	-28	-33	11	-2	-6	0	0.4	7.2	0.8	1.4	6.1	3	

**ASTA NUM. 263** NI 293 NF 320 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-70	35	24	2	13	0	1.1	15.5	0.8	1.9	13.3	3	
1	56	-55	-1	24	2	0	9	0.9	11.2	0.6	1.9	9.6	2	
1	112	-41	-33	24	2	-13	-0	0.6	15.4	0.8	1.9	12.7	3	

**ASTA NUM. 264** NI 320 NF 347 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-130	35	22	0	12	0	2.0	14.4	0.8	0.0	13.4	3	
1	56	-115	-1	22	0	0	9	1.8	11.2	0.5	0.0	10.6	1	
1	112	-102	-33	22	0	-12	-0	1.6	14.2	0.8	0.0	12.7	3	

**ASTA NUM. 265** NI 347 NF 374 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.2209 0.6080 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-164	35	15	-2	9	0	2.6	10.0	0.8	2.2	10.4	3	
1	56	-149	-1	15	-2	0	9	2.3	11.3	0.4	2.2	11.2	2	
1	112	-136	-33	15	-2	-8	-0	2.1	9.6	0.8	2.2	9.7	3	

**ASTA NUM. 266** NI 292 NF 319 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.1104 0.3187 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-78	18	22	2	13	0	1.2	14.8	0.5	2.0	12.8	3	
1	56	-71	-0	22	2	0	5	1.1	5.9	0.5	2.0	5.7	2	
1	112	-63	-17	22	2	-12	0	1.0	14.6	0.5	2.0	12.5	3	

**ASTA NUM. 267** NI 319 NF 346 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.1104 0.3187 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-204	18	21	-0	12	0	3.2	13.8	0.5	0.0	14.1	3	
1	56	-197	-0	21	-0	0	5	3.1	5.8	0.5	0.0	7.7	2	
1	112	-189	-17	21	-0	-12	-0	3.0	13.8	0.5	0.0	13.8	3	

**ASTA NUM. 268** NI 346 NF 373 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.1104 0.3187 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-373	18	15	-3	8	0	5.8	9.6	0.4	2.6	13.4	3	
1	56	-365	-0	15	-3	0	5	5.7	6.0	0.3	2.6	10.4	2	
1	112	-358	-17	15	-3	-8	0	5.6	9.3	0.4	2.6	12.9	3	

**ASTA NUM. 269** NI 399 NF 426 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.0815 0.2898 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-338	16	15	-3	8	0	5.3	9.7	0.4	2.9	12.9	3	
1	56	-345	0	15	-3	-0	5	5.4	5.4	0.4	2.9	9.6	2	
1	112	-352	-16	15	-3	-9	0	5.5	10.0	0.4	2.9	13.4	3	

**ASTA NUM. 270** NI 426 NF 453 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.0815 0.2898 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-158	16	21	-1	12	0	2.5	13.5	0.5	0.6	13.1	3	
1	56	-165	-0	21	-1	0	5	2.6	5.3	0.5	0.6	6.7	2	
1	112	-172	-16	21	-1	-12	0	2.7	13.5	0.5	0.6	13.3	3	

**ASTA NUM. 271** NI 453 NF 480 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.0815 0.2898 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-55	14	20	0	11	0	0.9	12.9	0.5	0.1	11.0	3	
1	56	-62	-2	20	0	-0	3	1.0	4.2	0.5	0.1	4.2	1	
1	112	-69	-18	20	0	-11	-2	1.1	15.4	0.5	0.1	13.2	1	

**ASTA NUM. 272** NI 480 NF 508 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1787 0.0815 0.2897 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	4	11	-0	0	0	-2	0.1	2.2	0.2	0.0	1.8	1	
1	18	2	5	0	0	-0	-0	0.0	0.6	0.1	0.0	0.5	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	



**ASTA NUM. 273** NI 398 NF 425 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-128	31	15	-3	8	0	2.0	9.8	0.7	2.4	9.7	3	
1	56	-141	-0	15	-3	-0	9	2.2	10.2	0.4	2.4	10.2	2	
1	112	-154	-31	15	-3	-9	0	2.4	10.2	0.7	2.4	10.4	3	

**ASTA NUM. 274** NI 425 NF 452 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-90	31	21	-0	12	0	1.4	13.8	0.7	0.4	12.2	3	
1	56	-103	0	21	-0	-0	9	1.6	10.1	0.5	0.4	9.6	1	
1	112	-116	-31	21	-0	-12	0	1.8	14.0	0.7	0.4	12.8	3	

**ASTA NUM. 275** NI 452 NF 479 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-31	26	21	0	12	0	0.5	13.6	0.6	0.3	11.2	3	
1	56	-44	-5	21	0	-0	6	0.7	7.1	0.5	0.3	6.3	2	
1	112	-57	-35	21	0	-12	-5	0.9	19.7	0.8	0.3	16.4	1	

**ASTA NUM. 276** NI 479 NF 507 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 277** NI 397 NF 424 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-27	31	11	-2	6	0	0.4	7.2	0.7	1.5	6.1	3	
1	56	-40	-0	11	-2	-0	9	0.6	10.1	0.3	1.5	8.5	2	
1	112	-53	-31	11	-2	-6	0	0.8	7.2	0.7	1.5	6.5	3	

**ASTA NUM. 278** NI 424 NF 451 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-23	31	16	-0	9	0	0.4	10.1	0.7	0.1	8.3	3	
1	56	-36	0	16	-0	-0	9	0.6	10.1	0.4	0.1	8.5	1	
1	112	-48	-31	16	-0	-9	0	0.8	10.2	0.7	0.1	8.8	3	

**ASTA NUM. 279** NI 451 NF 478 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-5	27	15	1	8	0	0.1	9.8	0.6	0.5	7.8	3	
1	56	-18	-4	15	1	-0	6	0.3	7.4	0.4	0.5	6.1	2	
1	112	-31	-35	15	1	-8	-5	0.5	15.3	0.8	0.5	12.5	1	

**ASTA NUM. 280** NI 478 NF 506 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 281** NI 396 NF 423 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-7	31	4	-1	2	0	0.1	2.6	0.7	0.6	2.1	3	
1	56	-20	-0	4	-1	0	9	0.3	10.0	0.1	0.6	8.2	2	
1	112	-33	-31	4	-1	-2	0	0.5	2.6	0.7	0.6	2.5	3	

**ASTA NUM. 282** NI 423 NF 450 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	2	31	8	0	4	0	0.0	4.9	0.7	0.0	3.7	3	
1	56	-11	0	8	0	-0	9	0.2	10.0	0.2	0.0	8.1	1	
1	112	-24	-31	8	0	-4	0	0.4	4.9	0.7	0.0	4.3	3	

**ASTA NUM. 283** NI 450 NF 477 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	10	27	7	1	4	0	0.2	4.4	0.6	0.6	3.5	3	
1	56	-3	-4	7	1	-0	6	0.0	7.4	0.2	0.6	5.9	2	
1	112	-15	-35	7	1	-4	-4	0.2	9.7	0.8	0.6	7.8	1	

**ASTA NUM. 284** NI 477 NF 505 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 285** NI 395 NF 422 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-6	31	-4	0	-3	0	0.1	2.9	0.7	0.2	2.4	3	
1	56	-19	-0	-4	0	-0	9	0.3	10.0	0.1	0.2	8.2	1	
1	112	-32	-31	-4	0	2	0	0.5	2.9	0.7	0.2	2.8	3	

**ASTA NUM. 286** NI 422 NF 449 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	7	31	-1	0	-1	0	0.1	0.8	0.7	0.1	0.7	3	
1	56	-6	0	-1	0	-0	9	0.1	10.0	0.0	0.1	8.0	2	
1	112	-19	-31	-1	0	1	0	0.3	0.8	0.7	0.1	0.9	3	

**ASTA NUM. 287** NI 449 NF 476 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	15	27	-2	1	-1	0	0.2	1.4	0.6	0.6	1.2	3	
1	56	2	-4	-2	1	-0	6	0.0	7.4	0.1	0.6	5.6	2	
1	112	-11	-35	-2	1	1	-5	0.2	6.7	0.8	0.6	5.4	1	

**ASTA NUM. 288** NI 476 NF 504 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	-0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 289** NI 394 NF 421 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	31	-12	1	-7	0	0.0	8.2	0.7	0.9	6.2	3	
1	56	-12	-0	-12	1	-0	9	0.2	10.1	0.3	0.9	8.1	2	
1	112	-25	-31	-12	1	7	0	0.4	8.1	0.7	0.9	6.8	3	

**ASTA NUM. 290** NI 421 NF 448 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	11	31	-10	0	-5	0	0.2	6.2	0.7	0.2	4.8	3	
1	56	-2	0	-10	0	-0	9	0.0	10.0	0.2	0.2	7.9	2	
1	112	-15	-31	-10	0	5	0	0.2	6.2	0.7	0.2	5.1	3	

**ASTA NUM. 291** NI 448 NF 475 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	17	26	-10	1	-6	0	0.3	6.7	0.6	0.6	5.3	3	
1	56	4	-4	-10	1	0	6	0.1	7.3	0.2	0.6	5.5	2	
1	112	-9	-35	-10	1	6	-5	0.1	12.4	0.8	0.6	9.9	1	

**ASTA NUM. 292** NI 475 NF 503 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 293** NI 393 NF 420 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-1	31	-18	2	-10	0	0.0	12.0	0.7	1.4	9.4	3	
1	56	-13	-0	-18	2	-0	9	0.2	10.1	0.4	1.4	8.1	2	
1	112	-26	-31	-18	2	10	0	0.4	11.9	0.7	1.4	9.8	3	

**ASTA NUM. 294** NI 420 NF 447 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	7	31	-16	0	-9	0	0.1	10.4	0.7	0.2	7.9	3	
1	56	-6	0	-16	0	0	9	0.1	10.1	0.4	0.2	8.0	2	
1	112	-19	-31	-16	0	9	0	0.3	10.5	0.7	0.2	8.6	3	

**ASTA NUM. 295** NI 447 NF 474 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	15	26	-17	1	-10	0	0.2	11.1	0.6	0.6	8.6	3	
1	56	2	-5	-17	1	0	6	0.0	7.1	0.4	0.6	5.4	2	
1	112	-11	-35	-17	1	10	-5	0.2	17.2	0.8	0.6	13.7	1	

**ASTA NUM. 296** NI 474 NF 502 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 297** NI 392 NF 419 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-54	31	-20	2	-11	0	0.8	12.8	0.7	1.7	10.9	3	
1	56	-67	-0	-20	2	0	9	1.0	10.1	0.5	1.7	9.0	2	
1	112	-80	-31	-20	2	11	0	1.2	13.0	0.7	1.7	11.5	3	

**ASTA NUM. 298** NI 419 NF 446 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-51	31	-19	0	-10	0	0.8	12.3	0.7	0.3	10.4	3	
1	56	-64	0	-19	0	0	9	1.0	10.2	0.4	0.3	9.0	1	
1	112	-77	-31	-19	0	11	0	1.2	12.6	0.7	0.3	11.1	3	

**ASTA NUM. 299** NI 446 NF 473 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-22	26	-21	1	-12	0	0.3	13.6	0.6	0.5	11.0	3	
1	56	-35	-5	-21	1	0	6	0.5	7.0	0.5	0.5	6.1	2	
1	112	-48	-36	-21	1	12	-5	0.8	20.3	0.8	0.5	16.7	1	

**ASTA NUM. 300** NI 473 NF 501 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 301** NI 391 NF 418 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-192	45	-15	2	-8	0	3.0	9.6	1.1	1.6	10.5	3	
1	56	-211	-0	-15	2	0	13	3.3	15.0	0.4	1.6	15.1	2	
1	112	-231	-45	-15	2	9	-0	3.6	10.0	1.1	1.6	11.4	3	

**ASTA NUM. 302** NI 418 NF 445 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-191	45	-16	0	-8	0	3.0	9.9	1.1	0.3	10.8	3	
1	56	-210	-0	-16	0	0	13	3.3	15.0	0.4	0.3	15.1	1	
1	112	-229	-45	-16	0	9	-0	3.6	10.4	1.1	0.3	11.8	3	

**ASTA NUM. 303** NI 445 NF 472 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-163	36	-19	0	-10	0	2.5	12.0	0.9	0.4	11.9	3	
1	56	-182	-9	-19	0	0	8	2.8	9.4	0.4	0.4	10.2	1	
1	112	-201	-54	-19	0	11	-10	3.1	24.3	1.3	0.4	22.2	1	

**ASTA NUM. 304** NI 472 NF 500 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5362 0.2445 0.8102 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	12	29	-0	0	0	-5	0.2	6.3	0.7	0.0	4.9	1	
1	18	6	15	-0	0	-0	-1	0.1	1.6	0.3	0.0	1.3	1	
1	36	0	0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	



**ASTA NUM. 305** NI 390 NF 417 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-132	45	10	-0	5	0	2.1	6.2	1.1	0.1	6.9	3	
1	56	-151	-0	10	-0	-0	13	2.4	15.0	0.2	0.1	14.1	1	
1	112	-170	-45	10	-0	-6	-0	2.7	6.5	1.1	0.1	7.8	3	

**ASTA NUM. 306** NI 417 NF 444 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-181	45	13	1	7	0	2.8	8.0	1.1	0.5	9.1	3	
1	56	-200	-0	13	1	-0	13	3.1	15.1	0.3	0.5	15.0	1	
1	112	-219	-45	13	1	-7	-0	3.4	8.6	1.1	0.5	10.2	3	

**ASTA NUM. 307** NI 444 NF 471 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-157	36	15	0	8	0	2.5	9.6	0.9	0.3	10.0	3	
1	56	-176	-9	15	0	-0	8	2.8	9.4	0.4	0.3	10.1	1	
1	112	-195	-54	15	0	-9	-10	3.0	21.9	1.3	0.3	20.3	1	

**ASTA NUM. 308** NI 471 NF 499 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5362 0.2445 0.8102 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	12	29	-0	0	0	-5	0.2	6.3	0.7	0.0	4.9	1	
1	18	6	15	0	0	-0	-1	0.1	1.6	0.3	0.0	1.3	1	
1	36	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 309** NI 389 NF 416 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-30	31	14	-0	8	0	0.5	9.2	0.7	0.3	7.7	3	
1	56	-43	-0	14	-0	-0	9	0.7	10.1	0.3	0.3	8.6	2	
1	112	-56	-31	14	-0	-8	0	0.9	9.3	0.7	0.3	8.2	3	

**ASTA NUM. 310** NI 416 NF 443 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-35	31	16	0	9	0	0.6	10.1	0.7	0.4	8.5	3	
1	56	-48	0	16	0	-0	9	0.8	10.2	0.4	0.4	8.8	1	
1	112	-61	-31	16	0	-9	0	1.0	10.4	0.7	0.4	9.1	3	

**ASTA NUM. 311** NI 443 NF 470 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-15	26	17	0	9	0	0.2	10.7	0.6	0.2	8.7	3	
1	56	-28	-5	17	0	-0	6	0.4	6.9	0.4	0.2	5.9	1	
1	112	-41	-36	17	0	-9	-6	0.6	17.6	0.8	0.2	14.4	1	

**ASTA NUM. 312** NI 470 NF 498 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	-0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	-0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 313** NI 388 NF 415 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	4	31	13	-0	7	0	0.1	8.2	0.7	0.3	6.2	3	
1	56	-9	-0	13	-0	0	9	0.1	10.1	0.3	0.3	8.0	2	
1	112	-22	-31	13	-0	-7	0	0.3	8.2	0.7	0.3	6.8	3	

**ASTA NUM. 314** NI 415 NF 442 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	12	31	13	0	7	0	0.2	8.4	0.7	0.3	6.5	3	
1	56	-1	0	13	0	-0	9	0.0	10.1	0.3	0.3	7.9	2	
1	112	-14	-31	13	0	-7	0	0.2	8.5	0.7	0.3	6.9	3	

**ASTA NUM. 315** NI 442 NF 469 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	18	26	13	0	7	0	0.3	8.3	0.6	0.2	6.5	3	
1	56	5	-5	13	0	-0	6	0.1	6.9	0.3	0.2	5.3	2	
1	112	-8	-36	13	0	-7	-5	0.1	14.7	0.8	0.2	11.7	1	

**ASTA NUM. 316** NI 469 NF 497 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	-0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	-0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 317** NI 387 NF 414 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	31	7	-0	4	0	0.0	4.6	0.7	0.2	3.5	3	
1	56	-12	-0	7	-0	0	9	0.2	10.1	0.2	0.2	8.1	1	
1	112	-25	-31	7	-0	-4	0	0.4	4.5	0.7	0.2	3.9	3	

**ASTA NUM. 318** NI 414 NF 441 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	11	31	7	0	4	0	0.2	4.5	0.7	0.2	3.6	3	
1	56	-2	0	7	0	0	9	0.0	10.0	0.2	0.2	7.9	2	
1	112	-15	-31	7	0	-4	0	0.2	4.5	0.7	0.2	3.8	3	

**ASTA NUM. 319** NI 441 NF 468 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	16	26	7	0	4	0	0.3	4.3	0.6	0.1	3.5	3	
1	56	3	-5	7	0	-0	6	0.1	6.9	0.2	0.1	5.2	2	
1	112	-10	-35	7	0	-4	-5	0.1	10.5	0.8	0.1	8.4	1	

**ASTA NUM. 320** NI 468 NF 496 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	-0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	-0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 321** NI 386 NF 413 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-4	31	-0	-0	-0	0	0.1	0.3	0.7	0.0	0.3	3	
1	56	-17	-0	-0	-0	-0	9	0.3	10.0	0.0	0.0	8.2	1	
1	112	-30	-31	-0	-0	0	0	0.5	0.3	0.7	0.0	0.7	3	

**ASTA NUM. 322** NI 413 NF 440 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	6	31	-1	0	-0	0	0.1	0.3	0.7	0.0	0.3	3	
1	56	-7	0	-1	0	-0	9	0.1	10.0	0.0	0.0	8.0	1	
1	112	-20	-31	-1	0	0	0	0.3	0.3	0.7	0.0	0.6	3	

**ASTA NUM. 323** NI 440 NF 467 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	13	26	-1	0	-0	0	0.2	0.6	0.6	0.0	0.6	3	
1	56	1	-5	-1	0	0	6	0.0	6.9	0.1	0.0	5.2	1	
1	112	-12	-35	-1	0	0	-5	0.2	6.8	0.8	0.0	5.5	1	

**ASTA NUM. 324** NI 467 NF 495 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 325** NI 385 NF 412 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	31	-8	0	-4	0	0.0	5.1	0.7	0.1	3.9	3	
1	56	-12	-0	-8	0	-0	9	0.2	10.1	0.2	0.1	8.1	1	
1	112	-25	-31	-8	0	4	0	0.4	5.0	0.7	0.1	4.4	3	

**ASTA NUM. 326** NI 412 NF 439 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	11	31	-8	-0	-4	0	0.2	5.2	0.7	0.2	4.1	3	
1	56	-2	0	-8	-0	-0	9	0.0	10.0	0.2	0.2	7.9	2	
1	112	-15	-31	-8	-0	4	0	0.2	5.2	0.7	0.2	4.3	3	

**ASTA NUM. 327** NI 439 NF 466 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	16	26	-8	-0	-5	0	0.3	5.4	0.6	0.1	4.3	3	
1	56	3	-5	-8	-0	0	6	0.1	6.9	0.2	0.1	5.2	2	
1	112	-10	-35	-8	-0	5	-5	0.2	11.6	0.8	0.1	9.3	1	

**ASTA NUM. 328** NI 466 NF 494 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 329** NI 384 NF 411 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	3	31	-13	0	-7	0	0.1	8.7	0.7	0.3	6.6	3	
1	56	-10	-0	-13	0	-0	9	0.2	10.1	0.3	0.3	8.1	2	
1	112	-23	-31	-13	0	7	0	0.4	8.6	0.7	0.3	7.1	3	

**ASTA NUM. 330** NI 411 NF 438 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	11	31	-14	-0	-8	0	0.2	9.0	0.7	0.3	6.9	3	
1	56	-2	0	-14	-0	0	9	0.0	10.1	0.3	0.3	7.9	2	
1	112	-15	-31	-14	-0	8	0	0.2	9.1	0.7	0.3	7.4	3	

**ASTA NUM. 331** NI 438 NF 465 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	17	26	-14	-0	-8	0	0.3	9.4	0.6	0.1	7.3	3	
1	56	4	-5	-14	-0	0	6	0.1	6.9	0.3	0.1	5.2	2	
1	112	-9	-36	-14	-0	8	-5	0.1	15.8	0.8	0.1	12.6	1	

**ASTA NUM. 332** NI 465 NF 493 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 333** NI 383 NF 410 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-33	31	-15	0	-8	0	0.5	9.6	0.7	0.3	8.0	3	
1	56	-46	-0	-15	0	0	9	0.7	10.1	0.3	0.3	8.6	1	
1	112	-59	-31	-15	0	8	0	0.9	9.7	0.7	0.3	8.5	3	

**ASTA NUM. 334** NI 410 NF 437 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-38	31	-16	-0	-9	0	0.6	10.6	0.7	0.4	8.9	3	
1	56	-51	0	-16	-0	0	9	0.8	10.2	0.4	0.4	8.8	1	
1	112	-64	-31	-16	-0	9	0	1.0	10.9	0.7	0.4	9.6	3	

**ASTA NUM. 335** NI 437 NF 464 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-17	26	-18	-0	-10	0	0.3	11.7	0.6	0.2	9.5	3	
1	56	-30	-5	-18	-0	0	6	0.5	6.9	0.4	0.2	5.9	1	
1	112	-43	-36	-18	-0	10	-6	0.7	18.5	0.8	0.2	15.2	1	

**ASTA NUM. 336** NI 464 NF 492 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	



**ASTA NUM. 337** NI 382 NF 409 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-135	45	-10	0	-5	0	2.1	6.4	1.1	0.1	7.2	3	
1	56	-154	-0	-10	0	0	13	2.4	15.0	0.2	0.1	14.2	1	
1	112	-173	-45	-10	0	6	-0	2.7	6.8	1.1	0.1	8.0	3	

**ASTA NUM. 338** NI 409 NF 436 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-185	45	-13	-1	-7	0	2.9	8.4	1.1	0.5	9.5	3	
1	56	-204	-0	-13	-1	0	13	3.2	15.1	0.3	0.5	15.0	1	
1	112	-223	-45	-13	-1	8	-0	3.5	8.9	1.1	0.5	10.5	3	

**ASTA NUM. 339** NI 436 NF 463 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-158	36	-16	-0	-9	0	2.5	10.4	0.9	0.2	10.6	3	
1	56	-177	-9	-16	-0	0	8	2.8	9.4	0.4	0.2	10.2	1	
1	112	-196	-54	-16	-0	10	-10	3.1	22.7	1.3	0.2	20.9	1	

**ASTA NUM. 340** NI 463 NF 491 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5362 0.2445 0.8102 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	12	29	-0	0	0	-5	0.2	6.3	0.7	0.0	4.9	1	
1	18	6	15	0	0	-0	-1	0.1	1.6	0.3	0.0	1.3	1	
1	36	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 341** NI 381 NF 408 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-183	45	15	-2	8	0	2.9	9.3	1.1	1.6	10.2	3	
1	56	-202	-0	15	-2	-0	13	3.2	15.0	0.3	1.6	14.9	2	
1	112	-221	-45	15	-2	-8	-0	3.4	9.7	1.1	1.6	11.1	3	

**ASTA NUM. 342** NI 408 NF 435 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-180	45	15	-0	8	0	2.8	9.5	1.1	0.4	10.3	3	
1	56	-199	-0	15	-0	-0	13	3.1	15.0	0.4	0.4	14.9	1	
1	112	-218	-45	15	-0	-9	-0	3.4	10.0	1.1	0.4	11.3	3	

**ASTA NUM. 343** NI 435 NF 462 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5364 0.2446 0.8106 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-156	36	18	-0	9	0	2.4	11.1	0.9	0.4	11.1	3	
1	56	-175	-9	18	-0	-0	8	2.7	9.4	0.4	0.4	10.2	1	
1	112	-194	-54	18	-0	-10	-10	3.0	23.3	1.3	0.4	21.3	1	

**ASTA NUM. 344** NI 462 NF 490 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.5362 0.2445 0.8102 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	12	29	0	0	0	-5	0.2	6.3	0.7	0.0	4.9	1	
1	18	6	15	0	0	-0	-1	0.1	1.6	0.3	0.0	1.3	1	
1	36	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 345** NI 380 NF 407 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-49	31	19	-2	11	0	0.8	12.5	0.7	1.7	10.5	3	
1	56	-62	-0	19	-2	-0	9	1.0	10.1	0.4	1.7	8.9	2	
1	112	-74	-31	19	-2	-11	0	1.2	12.6	0.7	1.7	11.1	3	

**ASTA NUM. 346** NI 407 NF 434 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-46	31	18	-0	10	0	0.7	11.8	0.7	0.4	10.0	3	
1	56	-59	0	18	-0	-0	9	0.9	10.2	0.4	0.4	8.9	1	
1	112	-72	-31	18	-0	-10	0	1.1	12.1	0.7	0.4	10.6	3	

**ASTA NUM. 347** NI 434 NF 461 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-19	26	19	-0	11	0	0.3	12.5	0.6	0.4	10.2	3	
1	56	-32	-5	19	-0	-0	6	0.5	7.1	0.5	0.4	6.1	1	
1	112	-45	-35	19	-0	-11	-5	0.7	19.1	0.8	0.4	15.7	1	

**ASTA NUM. 348** NI 461 NF 489 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	-0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	-0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 349** NI 379 NF 406 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	31	18	-2	10	0	0.0	11.5	0.7	1.5	8.6	3	
1	56	-12	-0	18	-2	0	9	0.2	10.1	0.4	1.5	8.1	2	
1	112	-25	-31	18	-2	-10	0	0.4	11.4	0.7	1.5	9.4	3	

**ASTA NUM. 350** NI 406 NF 433 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	31	15	-0	8	0	0.1	9.9	0.7	0.3	7.5	3	
1	56	-5	0	15	-0	-0	9	0.1	10.1	0.4	0.3	8.0	2	
1	112	-18	-31	15	-0	-8	0	0.3	9.9	0.7	0.3	8.1	3	

**ASTA NUM. 351** NI 433 NF 460 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	16	26	15	-1	9	0	0.2	10.0	0.6	0.5	7.8	3	
1	56	3	-4	15	-1	-0	6	0.0	7.2	0.4	0.5	5.4	2	
1	112	-10	-35	15	-1	-9	-5	0.2	15.9	0.8	0.5	12.6	1	

**ASTA NUM. 352** NI 460 NF 488 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	-0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	-0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	-0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 353** NI 378 NF 405 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	1	31	12	-1	7	0	0.0	7.7	0.7	1.0	5.8	3	
1	56	-12	0	12	-1	0	9	0.2	10.1	0.3	1.0	8.1	2	
1	112	-25	-31	12	-1	-6	-0	0.4	7.6	0.7	1.0	6.4	3	

**ASTA NUM. 354** NI 405 NF 432 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	11	31	9	-0	5	0	0.2	5.6	0.7	0.3	4.4	3	
1	56	-2	0	9	-0	-0	9	0.0	10.0	0.2	0.3	7.9	2	
1	112	-15	-31	9	-0	-5	0	0.2	5.6	0.7	0.3	4.7	3	

**ASTA NUM. 355** NI 432 NF 459 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	17	27	9	-1	5	0	0.3	5.6	0.6	0.5	4.5	3	
1	56	4	-4	9	-1	-0	6	0.1	7.4	0.2	0.5	5.6	2	
1	112	-9	-35	9	-1	-5	-5	0.1	11.0	0.8	0.5	8.8	1	

**ASTA NUM. 356** NI 459 NF 487 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 357** NI 377 NF 404 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-5	31	4	-0	2	0	0.1	2.4	0.7	0.3	2.0	3	
1	56	-18	-0	4	-0	0	9	0.3	10.0	0.1	0.3	8.2	2	
1	112	-31	-31	4	-0	-2	0	0.5	2.4	0.7	0.3	2.4	3	

**ASTA NUM. 358** NI 404 NF 431 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	7	31	0	-0	0	0	0.1	0.2	0.7	0.2	0.3	3	
1	56	-6	0	0	-0	-0	9	0.1	10.0	0.0	0.2	8.0	2	
1	112	-19	-31	0	-0	-0	0	0.3	0.2	0.7	0.2	0.5	3	

**ASTA NUM. 359** NI 431 NF 458 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	15	27	0	-1	0	0	0.2	0.2	0.6	0.6	0.4	3	
1	56	2	-4	0	-1	0	6	0.0	7.5	0.1	0.6	5.7	2	
1	112	-11	-35	0	-1	-0	-4	0.2	5.3	0.8	0.6	4.3	1	

**ASTA NUM. 360** NI 458 NF 486 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 361** NI 376 NF 403 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-7	31	-5	1	-3	0	0.1	3.0	0.7	0.5	2.5	3	
1	56	-20	0	-5	1	-0	9	0.3	10.0	0.1	0.5	8.2	2	
1	112	-33	-31	-5	1	3	-0	0.5	3.0	0.7	0.5	2.9	3	

**ASTA NUM. 362** NI 403 NF 430 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	3	31	-8	-0	-5	0	0.0	5.4	0.7	0.1	4.1	3	
1	56	-10	0	-8	-0	0	9	0.2	10.0	0.2	0.1	8.1	2	
1	112	-23	-31	-8	-0	5	0	0.4	5.5	0.7	0.1	4.6	3	

**ASTA NUM. 363** NI 430 NF 457 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	11	27	-8	-1	-5	0	0.2	5.5	0.6	0.5	4.3	3	
1	56	-2	-4	-8	-1	0	7	0.0	7.7	0.2	0.5	6.1	2	
1	112	-15	-34	-8	-1	5	-4	0.2	10.3	0.8	0.5	8.3	1	

**ASTA NUM. 364** NI 457 NF 485 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 365** NI 375 NF 402 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-29	31	-12	2	-6	0	0.5	7.5	0.7	1.5	6.3	3	
1	56	-42	-0	-12	2	0	9	0.7	10.1	0.3	1.5	8.6	2	
1	112	-55	-31	-12	2	6	0	0.9	7.6	0.7	1.5	6.8	3	

**ASTA NUM. 366** NI 402 NF 429 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-25	31	-16	0	-9	0	0.4	10.5	0.7	0.1	8.6	3	
1	56	-37	0	-16	0	0	9	0.6	10.1	0.4	0.1	8.5	1	
1	112	-50	-31	-16	0	9	0	0.8	10.6	0.7	0.1	9.1	3	

**ASTA NUM. 367** NI 429 NF 456 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-5	27	-17	-0	-9	0	0.1	10.8	0.6	0.5	8.6	3	
1	56	-18	-4	-17	-0	0	7	0.3	7.8	0.4	0.5	6.4	2	
1	112	-31	-34	-17	-0	9	-4	0.5	15.6	0.8	0.5	12.8	1	

**ASTA NUM. 368** NI 456 NF 484 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	



**ASTA NUM. 369** NI 374 NF 401 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-136	31	-15	3	-8	0	2.1	9.9	0.7	2.3	9.9	3	
1	56	-149	-0	-15	3	0	9	2.3	10.2	0.4	2.3	10.4	2	
1	112	-161	-31	-15	3	9	0	2.5	10.3	0.7	2.3	10.6	3	

**ASTA NUM. 370** NI 401 NF 428 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-102	31	-22	0	-12	0	1.6	14.0	0.7	0.3	12.6	3	
1	56	-114	0	-22	0	0	9	1.8	10.2	0.5	0.3	9.8	1	
1	112	-127	-31	-22	0	12	0	2.0	14.2	0.7	0.3	13.2	3	

**ASTA NUM. 371** NI 428 NF 455 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3576 0.1631 0.5502 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-43	27	-22	-0	-12	0	0.7	14.6	0.6	0.3	12.1	3	
1	56	-56	-4	-22	-0	0	6	0.9	7.7	0.5	0.3	6.9	2	
1	112	-69	-34	-22	-0	13	-4	1.1	19.6	0.8	0.3	16.5	1	

**ASTA NUM. 372** NI 455 NF 483 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.3575 0.1630 0.5499 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	8	20	0	0	0	-4	0.1	4.3	0.5	0.0	3.3	1	
1	18	4	10	0	0	-0	-1	0.1	1.1	0.2	0.0	0.9	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 373** NI 373 NF 400 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.0815 0.2898 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-348	16	-15	3	-8	0	5.4	9.6	0.4	2.9	13.0	3	
1	56	-355	0	-15	3	0	5	5.6	5.4	0.3	2.9	9.8	2	
1	112	-362	-16	-15	3	8	0	5.7	9.9	0.4	2.9	13.4	3	

**ASTA NUM. 374** NI 400 NF 427 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.0815 0.2898 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-179	16	-21	1	-11	0	2.8	13.4	0.5	0.6	13.3	3	
1	56	-186	-0	-21	1	-0	5	2.9	5.3	0.5	0.6	7.1	2	
1	112	-193	-16	-21	1	11	0	3.0	13.4	0.5	0.6	13.5	3	

**ASTA NUM. 375** NI 427 NF 454 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1788 0.0815 0.2898 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-102	16	-21	-0	-12	0	1.6	13.5	0.5	0.1	12.2	3	
1	56	-109	-1	-21	-0	0	4	1.7	5.0	0.5	0.1	5.7	1	
1	112	-116	-17	-21	-0	12	-1	1.8	14.5	0.5	0.1	13.2	1	

**ASTA NUM. 376** NI 454 NF 482 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0295 0.1787 0.0815 0.2897 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	4	11	0	0	0	-2	0.1	2.2	0.2	0.0	1.8	1	
1	18	2	5	0	0	-0	-0	0.0	0.6	0.1	0.0	0.5	1	
1	36	-0	-0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

**ASTA NUM. 377** NI 154 NF 100 Lungh. 111.6 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.0295 0.0295 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-9	-1	-7	-1	-4	3	0.1	7.3	0.2	0.6	5.9	1	
1	56	-9	-2	-7	-1	0	2	0.1	2.1	0.2	0.6	1.8	2	
1	112	-10	-4	-7	-1	4	0	0.2	4.3	0.2	0.6	3.6	3	

**ASTA NUM. 378** NI 100 NF 109 Lungh. 36.4 cm SEZ. 1 Rp B= 8.0 H= 8.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.0295 0.0295 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	0	1	0	0	0	-0	0.0	0.2	0.0	0.0	0.2	1	
1	18	0	1	0	0	0	-0	0.0	0.1	0.0	0.0	0.0	1	
1	36	-0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1	

Lavoro: **Calcolo struttura copertura capannone H** Intestazione lavoro: **Copertura L.L.**  
 Elemento: **TRAVE** Metodo di verifica: **Tensioni ammissibili**  
 Gruppo: **5** Descrizione: **Monaco**  
 Tabella: **Tabella pilastri**  
 Tipo legno: **Legno lamellare Qualità I** Beta piano 'yx': **1.000** Beta piano 'zx': **1.000**  
 Coefficienti di forma **abilitati**

**ASTA NUM. 1** NI 12 NF 13 Lungh. 144.0 cm SEZ. 5 Rp B= 20.0 H= 20.0 cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	19	-27	1	-1	0	1	0.0	0.1	0.1	0.0	0.1	3	
1	72	34	-27	1	-1	-0	-19	0.1	1.6	0.1	0.0	1.3	1	
1	144	48	-27	1	-1	-0	-38	0.1	3.2	0.1	0.0	2.5	1	

**Verifica di STABILITA'**

n.comb	Fx	My eq.	Mz eq.	Sn.yx	Sn.zx	OMEGA	Tens(Fx,M)	Nota
	kg	kg*m					kg/cmq	

**ASTA NUM. 2** NI 28 NF 26 Lungh. 144.0 cm SEZ. 5 Rp B= 20.0 H= 20.0 cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	19	-55	0	0	-0	1	0.0	0.1	0.2	0.0	0.1	3	
1	72	34	-55	0	0	-0	-38	0.1	3.2	0.2	0.0	2.5	1	
1	144	48	-55	0	0	-0	-78	0.1	6.5	0.2	0.0	5.0	1	

**Verifica di STABILITA'**

n.comb	Fx	My eq.	Mz eq.	Sn.yx	Sn.zx	OMEGA	Tens(Fx,M)	Nota
	kg	kg*m					kg/cmq	

**ASTA NUM. 3** NI 47 NF 45 Lungh. 144.0 cm SEZ. 5 Rp B= 20.0 H= 20.0 cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	19	-42	-0	-0	0	1	0.0	0.1	0.2	0.0	0.1	3	
1	72	33	-42	-0	-0	0	-29	0.1	2.4	0.2	0.0	1.9	1	
1	144	48	-42	-0	-0	0	-59	0.1	4.9	0.2	0.0	3.8	1	

**Verifica di STABILITA'**

n.comb	Fx	My eq.	Mz eq.	Sn.yx	Sn.zx	OMEGA	Tens(Fx,M)	Nota
	kg	kg*m					kg/cmq	

**ASTA NUM. 4** NI 66 NF 64 Lungh. 144.0 cm SEZ. 5 Rp B= 20.0 H= 20.0 cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						

1	0	19	-15	-1	1	-0	0	0.0	0.1	0.1	0.0	0.1	3	
1	72	33	-15	-1	1	0	-10	0.1	0.9	0.1	0.0	0.7	1	
1	144	48	-15	-1	1	1	-21	0.1	1.8	0.1	0.0	1.4	1	

**Verifica di STABILITA'**

n.comb	Fx	My eq.	Mz eq.	Sn.yx	Sn.zx	OMEGA	Tens(Fx,M)	Nota
	kg	kg*m			kg/cmq			

**ASTA NUM. 5** NI 2 NF 4 Lungh. 144.0 cm SEZ. 5 Rp B= 20.0 H= 20.0 cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						

1	0	19	27	1	1	0	-1	0.0	0.1	0.1	0.0	0.1	3	
1	72	34	27	1	1	-0	19	0.1	1.6	0.1	0.0	1.3	1	
1	144	48	27	1	1	-0	38	0.1	3.2	0.1	0.0	2.5	1	

**Verifica di STABILITA'**

n.comb	Fx	My eq.	Mz eq.	Sn.yx	Sn.zx	OMEGA	Tens(Fx,M)	Nota
	kg	kg*m			kg/cmq			

**ASTA NUM. 6** NI 37 NF 35 Lungh. 144.0 cm SEZ. 5 Rp B= 20.0 H= 20.0 cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						

1	0	19	54	0	-0	-0	-1	0.0	0.1	0.2	0.0	0.1	3	
1	72	34	54	0	-0	-0	38	0.1	3.2	0.2	0.0	2.5	1	
1	144	48	54	0	-0	-0	77	0.1	6.5	0.2	0.0	5.0	1	

**Verifica di STABILITA'**

n.comb	Fx	My eq.	Mz eq.	Sn.yx	Sn.zx	OMEGA	Tens(Fx,M)	Nota
	kg	kg*m			kg/cmq			

**ASTA NUM. 7** NI 75 NF 73 Lungh. 144.0 cm SEZ. 5 Rp B= 20.0 H= 20.0 cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						

1	0	19	9	-0	-0	-0	-0	0.0	0.0	0.0	0.0	0.1	3	
1	72	34	9	-0	-0	0	6	0.1	0.5	0.0	0.0	0.5	1	

1 144 48 9 -0 -0 0 12 0.1 1.1 0.0 0.0 0.9 1

**Verifica di STABILITA'**

n.comb	Fx	My eq.	Mz eq.	Sn.yx	Sn.zx	OMEGA	Tens(Fx,M)	Nota
	kg	kg*m					kg/cmq	

**ASTA NUM. 8** NI 56 NF 54 Lungh. 144.0 cm SEZ. 5 Rp B= 20.0 H= 20.0 cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m					kg/cmq				
1	0	19	35	-0	0	0	-1	0.0	0.1	0.1	0.0	0.1	3	
1	72	34	35	-0	0	0	25	0.1	2.1	0.1	0.0	1.6	1	
1	144	48	35	-0	0	0	50	0.1	4.2	0.1	0.0	3.3	1	

**Verifica di STABILITA'**

n.comb	Fx	My eq.	Mz eq.	Sn.yx	Sn.zx	OMEGA	Tens(Fx,M)	Nota
	kg	kg*m					kg/cmq	

Lavoro: **Calcolo struttura copertura capannone H** Intestazione lavoro: **Copertura L.L.**  
 Elemento: **TRAVE** Metodo di verifica: **Tensioni ammissibili**  
 Gruppo: **4** Descrizione: **Tiranti**  
 Tabella: **Tabella travi**  
 Tipo acciaio: **S 235 (Fe 360)**

**ASTA NUM. 1** NI 3 NF 12 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm	kg			kg*m					kg/cmq				
1	0	-13	10	1	0	1	-6	1.9	211.6	1.8	0.8	213.5	3	
1	171	-13	0	1	0	-0	3	1.9	102.6	0.1	0.8	104.5	1	
1	342	-13	-9	1	0	-1	-5	1.9	201.4	1.8	0.8	203.3	3	

**ASTA NUM. 2** NI 12 NF 11 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.  
 qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm	kg			kg*m					kg/cmq				
1	0	14	10	0	0	-0	-6	1.9	221.2	1.9	5.7	223.4	3	
1	171	14	0	0	0	-0	3	1.9	111.2	0.1	5.7	113.6	3	
1	342	14	-9	0	0	-0	-5	1.9	170.6	1.7	5.7	172.8	3	

ASTA NUM. 3 NI 36 NF 28 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.

qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	452	10	-0	-0	-0	-6	63.9	215.5	1.8	0.3	279.4	3	
1	171	452	0	-0	-0	-0	3	63.9	103.9	0.0	0.3	167.8	1	
1	342	452	-9	-0	-0	0	-5	63.9	188.8	1.8	0.3	252.7	3	

ASTA NUM. 4 NI 55 NF 47 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.

qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	451	10	0	0	0	-6	63.8	230.0	1.9	0.4	293.8	3	
1	171	451	0	0	0	0	3	63.8	100.1	0.1	0.4	164.0	3	
1	342	451	-9	0	0	-0	-5	63.8	182.0	1.7	0.4	245.9	3	

ASTA NUM. 5 NI 74 NF 66 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.

qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	170	10	-1	-0	-1	-6	24.1	219.1	1.8	1.1	243.2	3	
1	171	170	0	-1	-0	-0	3	24.1	101.0	0.1	1.1	125.1	3	
1	342	170	-9	-1	-0	1	-5	24.1	199.3	1.8	1.1	223.4	3	

ASTA NUM. 6 NI 28 NF 27 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.

qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	506	10	-0	-0	-0	-6	71.6	224.5	1.9	2.6	296.1	3	
1	171	506	1	-0	-0	0	3	71.6	114.8	0.1	2.6	186.4	3	
1	342	506	-9	-0	-0	0	-4	71.6	158.4	1.7	2.6	230.1	3	

ASTA NUM. 7 NI 47 NF 46 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.

qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	493	10	0	0	0	-6	69.7	222.7	1.9	2.6	292.4	3	
1	171	493	0	0	0	-0	3	69.7	114.8	0.1	2.6	184.6	3	
1	342	493	-9	0	0	-0	-4	69.7	160.2	1.7	2.6	230.0	3	

ASTA NUM. 8 NI 66 NF 65 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.

qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	185	10	0	-0	0	-6	26.1	211.5	1.8	6.2	237.8	3	
1	171	185	0	0	-0	0	3	26.1	107.5	0.0	6.2	134.0	3	
1	342	185	-9	0	-0	0	-5	26.1	187.5	1.8	6.2	213.9	3	

ASTA NUM. 9 NI 1 NF 2 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.

qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	14	9	-0	-0	-0	-5	1.9	170.7	1.7	5.7	172.9	3	
1	171	14	-0	-0	-0	-0	3	1.9	111.2	0.1	5.7	113.6	3	
1	342	14	-10	-0	-0	-0	-6	1.9	221.2	1.9	5.7	223.4	3	

ASTA NUM. 10 NI 2 NF 3 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.

qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-13	9	-1	-0	-1	-5	1.9	201.5	1.8	0.8	203.4	3	
1	171	-13	-0	-1	-0	0	3	1.9	102.6	0.1	0.8	104.5	1	
1	342	-13	-10	-1	-0	1	-6	1.9	211.6	1.8	0.8	213.5	3	



ASTA NUM. 11 NI 38 NF 37 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	507	9	0	0	0	-4	71.7	158.4	1.7	2.5	230.1	3	
1	171	507	-1	0	0	0	3	71.7	114.8	0.1	2.5	186.5	3	
1	342	507	-10	0	0	-0	-6	71.7	224.5	1.9	2.5	296.2	3	

ASTA NUM. 12 NI 37 NF 36 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	452	9	0	0	0	-5	64.0	189.0	1.8	0.3	253.0	3	
1	171	452	-0	0	0	0	3	64.0	103.9	0.0	0.3	167.9	1	
1	342	452	-10	0	0	-0	-6	64.0	215.3	1.8	0.3	279.3	3	

ASTA NUM. 13 NI 57 NF 56 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	478	9	-0	-0	-0	-4	67.6	161.2	1.7	1.9	228.9	3	
1	171	478	-0	-0	-0	-0	3	67.6	114.7	0.1	1.9	182.3	3	
1	342	478	-10	-0	-0	0	-6	67.6	221.8	1.9	1.9	289.5	3	

ASTA NUM. 14 NI 56 NF 55 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.  
qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	443	9	-0	-0	-0	-5	62.7	197.7	1.8	0.3	260.4	3	
1	171	443	-0	-0	-0	-0	3	62.7	107.1	0.0	0.3	169.7	3	
1	342	443	-10	-0	-0	0	-5	62.7	200.3	1.8	0.3	263.0	3	

**ASTA NUM. 15** NI 76 NF 75 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.

qy medio: 0.0555 0.0555 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	173	9	-0	0	0	-5	24.4	188.5	1.8	5.1	213.1	3	
1	171	173	-0	-0	0	0	3	24.4	107.2	0.0	5.1	131.9	3	
1	342	173	-10	-0	0	0	-6	24.4	210.6	1.8	5.1	235.2	3	

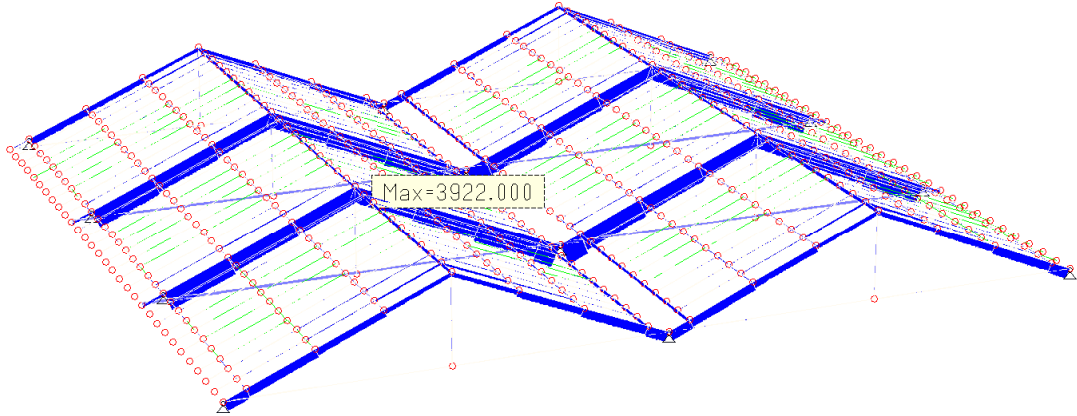
**ASTA NUM. 16** NI 74 NF 75 Lungh. 342.0 cm SEZ. 4 Cp D= 3.0 cm

categoria: p.p. y qy tot.

qy medio: 0.0555 0.0555 kg/cm

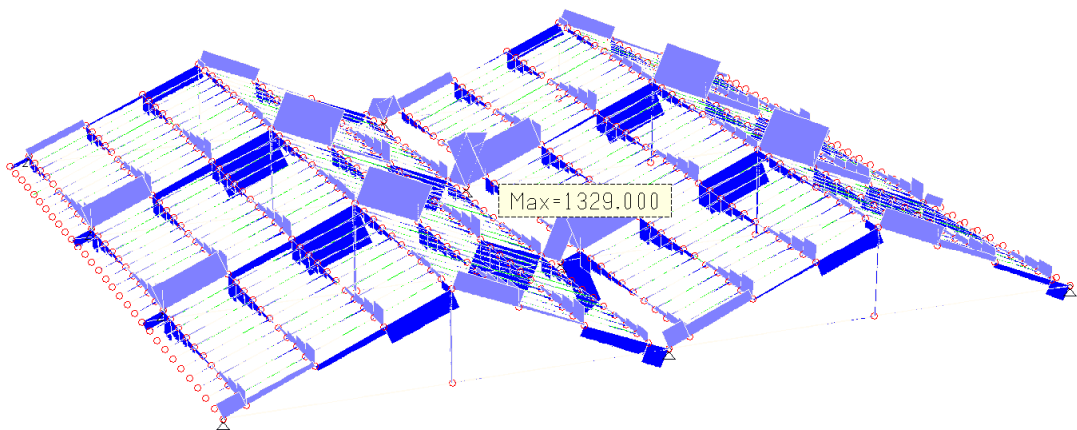
NC	x	Fx	Fy	Fz	Mx	My	Mz	Sf(Fx)	Sf(M)	taglio	tors.	Sf.id.	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	164	9	0	0	1	-5	23.2	202.6	1.8	0.9	225.8	3	
1	171	164	-0	0	0	-0	3	23.2	104.2	0.1	0.9	127.4	3	
1	342	164	-10	0	0	-1	-5	23.2	204.9	1.8	0.9	228.1	3	

## Azione normale

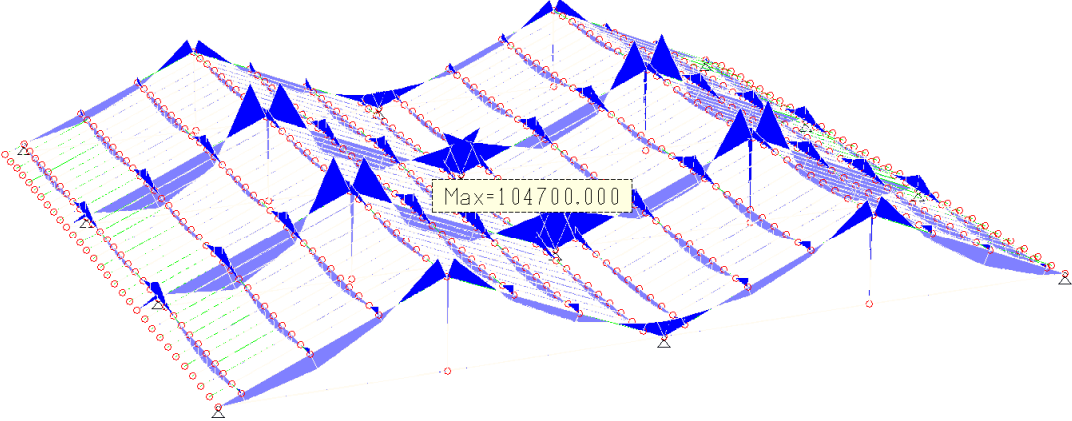


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## Taglio



**Momenti**



## **1. VALUTAZIONE DEI RISULTATI E GIUDIZIO MOTIVATO SULLA LORO ACCETTABILITÀ**

Il programma di calcolo utilizzato ,MasterSap AMV TOP 2009 2.2. prodotto dalla Società AMV Softwar Company con modellazione 3D con N°. Licenza d' uso 33948 , è idoneo a riprodurre nel modello matematico il comportamento della struttura e gli elementi finiti disponibili e utilizzati sono rappresentativi della realtà costruttiva. Le funzioni di controllo disponibili, innanzitutto quelle grafiche, consentono di verificare la riproduzione della realtà costruttiva ed accertare la corrispondenza del modello con la geometria strutturale e con le condizioni di carico ipotizzate. Si evidenzia che il modello viene generato direttamente dal disegno architettonico riproducendone così fedelmente le proporzioni geometriche. In ogni caso sono stati effettuati alcuni controlli dimensionali con gli strumenti software a disposizione dell'utente. Tutte le proprietà di rilevanza strutturale (materiali, sezioni, carichi, sconnessioni, etc.) sono state controllate attraverso le funzioni di indagine specificatamente previste.

Sono state sfruttate le funzioni di autodiagnostica presenti nel software che hanno accertato che non sussistono difetti formali di impostazione.

E' stato accertato che le risultanti delle azioni verticali sono in equilibrio con i carichi applicati.

Sono state controllate le azioni taglianti di piano ed accertata la loro congruenza con quella ricavabile da semplici ed agevoli elaborazioni. Le sollecitazioni prodotte da alcune combinazioni di carico di prova hanno prodotto valori prossimi a quelli ricavabili adottando consolidate formulazioni ricavate della Scienza delle Costruzioni. Anche le deformazioni risultano prossime ai valori attesi. Il dimensionamento e le verifiche di sicurezza hanno determinato risultati che sono in linea con casi di comprovata validità, confortati anche dalla propria esperienza.

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# RELAZIONE E CALCOLO DELLE STRUTTURE IN C.C.A.

Legge 05.11.1971 n. 1086

1.GENERALITA'

## RELAZIONE DI CALCOLO

INITIAL TYPE CALCULATION

Modello ITC.02  
del 28.07.2015

<b>ITC nr.</b> <i>Report nr.</i>	ITC 13C015 REV0	<b>Data</b> <i>Date</i>	
<b>Provincia di</b> <i>District</i>	Oristano	<b>Comune di</b> <i>Municipality</i>	Oristano
<b>Cliente</b> <i>Customer</i>	Comune di Oristano	<b>Produttore</b> <i>Manufacturer</i>	Comune di Oristano
<b>Commessa Cliente</b> <i>Shop Order Customer</i>	Comune di Oristano	<b>Commessa</b> <i>Shop Order</i>	0001/2017
<b>Cantiere</b> <i>Construction site</i>			
<b>Oggetto</b> <i>Object</i>	Calcoli statici Corpi C1 e c2		
<b>Nominativo calcolatore</b> <i>Calculator name</i>	Ing. Marcello Angiuoni Ing. Schintu Espedito Arch. Serra Maria Grazia	<b>Timbro e firma</b> <i>Stamp and signature</i>	

## Annotazioni

Notes

La presente relazione di calcolo concerne la progettazione della struttura di copertura in legno lamellare e intelaiatura in c.c.a. del "Corpo C" di collegamento ai capannoni esistenti da destinare a servizi igienici, ripostigli, etc. - sito nel comune di Oristano di proprietà della amministrazione comunale.

La struttura portante sottostante è costituita da travi e pilastri in c.c.a. su fondazione continua ..

<b>REV.</b>	<b>DATA</b> <i>Date:</i>	<b>DESCRIZIONE</b> <i>Description</i>	<b>VERIFICATO</b> <i>Verified</i>	<b>APPROVATO</b> <i>Approved</i>

## DESCRIZIONE DELLA STRUTTURA

*Structure description*

### NORMATIVA DI RIFERIMENTO

NORME TECNICHE PER LE COSTRUZIONI : (D.M. 14/01/2008)

Consiglio Superiore dei Lavori Pubblici  
Circolare 02/02/2009 n. 617 - Istruzioni per l'applicazione  
delle : <Norme Tecniche per le costruzioni> DM 14/01/2008>

La struttura in accordo con il paragrafo 2.4.2. del D.M. 14.01.2008 è stata classificata in classe d'uso II ( Costruzioni il cui uso preveda normali affollamenti , senza contenuti pericolosi per l'ambiente e senza funzioni pubbliche e sociali essenziali ... ) ed è posto in Zona 4 secondo la classificazione sismica prevista dall'Ordinanza n. 3274 e s.m.i. ( S = N.C. precedente classificazione ) .

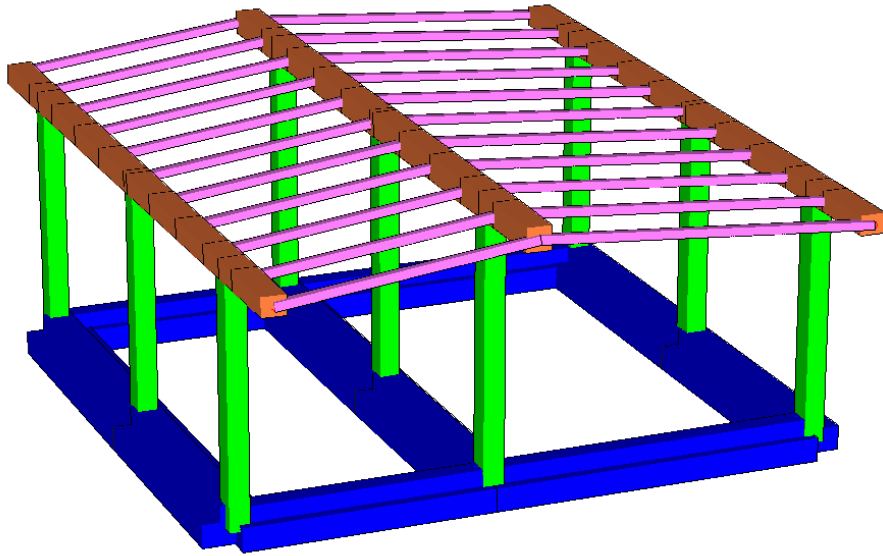
Pertanto in base a quanto stabilito con Deliberazione della Giunta Regionale del 30.03.2004 non è stata eseguita una progettazione antisismica , e nel rispetto del paragrafo 2.7. del D.M. 14.01.2008 , “ Per la costruzioni di tipo 1 e 2 , Classe d'uso I e II , limitatamente a siti ricadenti in Zona 4 , è ammesso il Metodo di verifica alle tensioni ammissibili . Per tali verifiche si deve fare riferimento alle Norme Tecniche di al D.M. LL.PP. 14.02.1992 , per le strutture in calcestruzzo e in acciaio ; al D.M. LL.PP. 20.11.1987 per le strutture in muratura e al D.M. LL.PP. 11.03.1988 per le opere e i sistemi geotecnici e alle Norme 14.01.2008.

Le Norme dette si debbono in tal caso applicare integralmente , salvo per i materiali e i prodotti , le azioni e il collaudo statico , per i quali valgono le prescrizioni riportate nelle presenti Norme Tecniche “ .

Le verifiche sono condotte nei confronti delle Tensioni Ammissibili .



**STRUTTURA**  
*Structure outline*



## **DISTINTA MATERIALI**

:

**CONGLOMERATO** : si prevede di impiegare conglomerato cementizio della classe Rck > 30 sia per le strutture in elevazione che per le strutture di fondazione .

**ACCIAIO** : si prevede l'impiego di acciaio ad aderenza migliorata B450C tipo (Feb 44K controllato in stabilimento) , per il quale si assume una tensione di esercizio ammissibile  $\sigma_{amm} = 2600 \text{ daN/cm}^2$  .

**TERRENO DI FONDAZIONE** : la sollecitazione massima ammissibile del terreno di fondazione è stata assunta pari a  $1.50 \text{ daN/cm}^2$  , trattandosi di un sito a scarsa portanza .

### **LEGNO** :

Le tensioni negli elementi pressoinflessi sono calcolate tenendo conto della anisotropia del materiale ,moltiplicando la tensione dovuta per il coefficiente :

$$c = \sigma_{camm} / \sigma_{famm}$$

$$\sigma_{camm} = 110 \text{ daN/cm} ; \quad \sigma_{famm} = 140 \text{ daN/cm}^2 .$$

La struttura di copertura sarà costituita da Travi in c.c.a. e Correnti in legno lamellare ,a due falde , con luci variabili in asse .

- la sovrastruttura di copertura è prevista in pannelli sandwich poggianti su orditura in legno ( assito ) .

### **2) Copertura** :

La struttura portante della copertura sarà costituita da elementi in legno lamellare incollato e prefabbricato in stabilimento .

Le presenti prescrizioni fanno parte integrante degli elaborati esecutivi e

condizionano il calcolo degli elementi strutturali .

**3) Scelta del legname** : gli elementi portanti sono costituiti da lamelle di abete rosso scelte in base alla Normativa DIN 4074 .

**4) Preparazione delle lamelle** : le lamelle sono tagliate nel senso delle fibre ed essiccate ad alta temperatura sia per eliminare i parassiti animali che per incrementare la resistenza e la durezza ; con un'umidità relativa residua del 10% +/- 3% , nel rispetto della Normativa DIN 1052 , sono sfilate a due metri e saldate con giunto a pettine secondo le DIN 68140 e di seguito perfettamente piallate per ottenere una completa adesione fra le stesse , onde evitare tensioni ulteriori e conseguenti deformazioni e fessurazioni .

L'incollaggio delle lamelle avviene a strati sovrapposti , mediante applicazione, su una sola faccia , di una quantità di colla sintetica alla resorcina , per interni ed esterni , in ragione di  $0.5 \text{ daN/m}^2$  , con incollatrice a fili , per una distribuzione omogenea , in versione colata , colla più induritore conformemente alle DIN 68141 . Nella fase immediatamente successiva , le lamelle dovranno essere pressate uniformemente ad una pressione maggiore di  $8 \text{ daN/cm}^2$  secondo le DIN 1052 . Le travi così ottenute saranno GL24H (Ec5) o BS14(DIN 1052 ) ,  $E = 110.000 \text{ daN/cm}^2$ .

**5) Protezione delle superfici** : onde proteggere tutte le parti lignee dagli agenti atmosferici o comunque dagli attacchi dei parassiti vegetali e dagli insetti Xilofagi , tutte le superfici dovranno essere trattate con prodotti specifici quali Bayer o similari secondo le DIN 68800 .

**6) Carpenterie e connessioni metalliche** : gli accessori metallici dovranno essere in acciaio Fe37 B salvo prescrizione specifica , con saldature a completo ripristino , trattate con zincatura a caldo con antiruggine specifico .

Il calcolo dei parametri statici seguirà le indicazioni delle CNR 10011. I chiodi ed i bulloni per la formazione dei giunti e dei collegamenti seguiranno le DIN 1052.

**7) Appoggi metallici fissi e scorrevoli** : le parti degli apparecchi d'appoggio che trasmettono pressioni per contatto , devono essere eseguite con acciaio fuso Fe G

520 UNI 3518 fucinato , oppure mediante saldatura di elementi in acciaio. Le pressioni di contatto si calcolano con le formle di herzt per i casi di più frequente impiego .

La pressione di contatto deve risultare :

per contatto puntiforme  $\sigma \leq 5.5 \sigma_{adm} = (TA)$

per contatto lineare  $\sigma \leq 4.0 \sigma_{adm}$

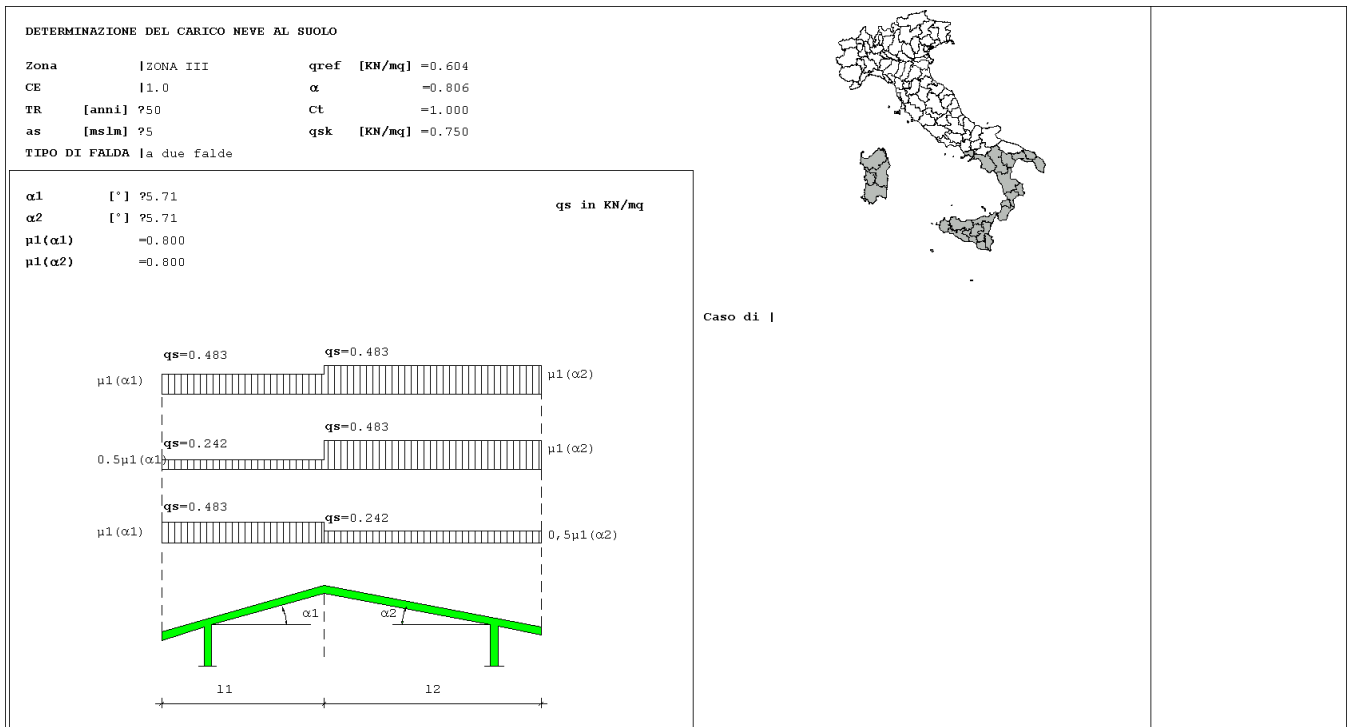
per contatto superficiale mediante piastre di limitate estensioni rispetto alle dimensioni dell'elemento strutturale :  $\sigma \leq 1.35 \sigma_{adm}$ .

Gli apparecchi d'appoggio mobili in acciaio devono essere provvisti di dispositivi guida ,allo scopo, di garantire il loro corretto movimento , e di dispositivi di arresto qualora il caso richieda ,comunque dovrà essere certificato dal produttore .

## **8) ANALISI DEI CARICHI :**

Secondo le **NORME TECNICHE** per le costruzioni ( come da S.O. n. 159 in G.U. 23 Settembre 2005 n. 22 ) : “  *Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi “ e “ Istruzioni per l'applicazione delle “ Norme Tecniche per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi “*

## 8.1) NEVE : zona III



## 8.2.) VENTO :

Non si considera l'azione del vento in quanto induce un'azione negativa .

## 9. CORPO “ C “

Il corpo “ C “ ,delle dimensioni esterne di m 7.10\*9.80 , verrà edificato con una struttura portante a pilastri e travi in c.c.a. con struttura portante di copertura a sostegno della sovrastruttura in pannelli sandwich , costituita da correnti in legno lamellare .

L'altezza interna del fabbricato sarà di mt.3.08 nella parte bassa e e mt. 3.40 al colmo .

Ad una prima orditura di arcarecci si sovrapporrà un tavolato dello spessore di mm 25 , la coibentazione e infine la copertura vera e propria in pannelli coibentati .

## 9.1.TAVOLATO

Interasse 95 cm ; p = 10 % ;  $\alpha = 5^{\circ},71$

### a) Analisi dei carichi permanenti

- assito .....	14	daN/mq
- pannelli .....	10	daN/mq
TOTALE PERMANENTI	24	daN/mq

### b) Analisi dei carichi accidentali

- neve .....	60	daN/mq
TOTALE Accidentali	q = 60	daN/mq

CARICO TOTALE 84 daN/mq

Per 1 ml di tavolato si ha q = 80 daN/m

## SCHEMA STATICO

Trave appoggiata agli estremi con carico ripartito :

$$L = 0.95 \text{ m} ; M_{\max.} = (1/8) * q * L^2 = 9.03 \text{ daNm} = 903 \text{ daNcm} .$$

Ipotizzando un tavolato dello spessore di 25 mm = 2.5 cm , per una larghezza di 1m si ha

$$W = 104.17 \text{ cm}^3 ; J = 130.20 \text{ cm}^4 ;$$

## VERIFICA

$$\sigma_{\max} = M/W = 8.66 \text{ daN/cm}^2 < \sigma_{\text{amm}}$$

$$f_{\max.} = (5/384)*q*L^4/(E*J) = 0.06 \text{ cm} < f_{\text{amm}} = L/300 = 95/300 = 0.31 \text{ cm} .$$

## 10. STAMPA DEI DATI DI PROGETTO

### STAMPA DEI DATI DI PROGETTO

#### INTESTAZIONE E DATI CARATTERISTICI DELLA STRUTTURA

Nome dell'archivio di lavoro	Corpo C
Intestazione del lavoro	CORPO c
Tipo di struttura	Nello Spazio
Tipo di analisi	Statica
Tipo di soluzione	Lineare
Unita' di misura delle forze	kg
Unita' di misura delle lunghezze	cm

### 10.1. NODI

#### NODI DEL MODELLO

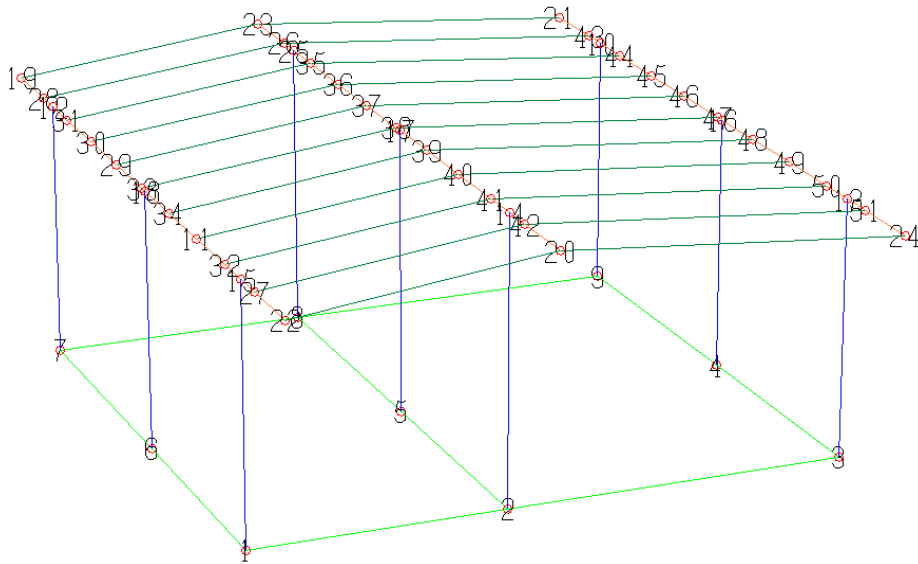
Nodo	Coord. X	Coord. Y	Coord. Z	Temper.	uX	uY	uZ	rX	rY	rZ
1	0.000	0.000	0.000	0.000	0	0	0	0	0	0
2	312.000	0.000	0.000	0.000	0	0	0	0	0	0
3	728.000	0.000	0.000	0.000	0	0	0	0	0	0
4	728.000	325.000	0.000	0.000	0	0	0	0	0	0
5	312.000	325.000	0.000	0.000	0	0	0	0	0	0
6	0.000	325.000	0.000	0.000	0	0	0	0	0	0
7	0.000	680.000	0.000	0.000	0	0	0	0	0	0
8	312.000	680.000	0.000	0.000	0	0	0	0	0	0
9	728.000	680.000	0.000	0.000	0	0	0	0	0	0
10	728.000	680.000	313.000	0.000	0	0	0	0	0	0
11	0.000	147.000	313.000	0.000	0	0	0	0	0	0
12	0.000	680.000	313.000	0.000	0	0	0	0	0	0
13	728.000	0.000	313.000	0.000	0	0	0	0	0	0
14	312.000	0.000	349.000	0.000	0	0	0	0	0	0
15	0.000	0.000	313.000	0.000	0	0	0	0	0	0
16	728.000	325.000	313.000	0.000	0	0	0	0	0	0
17	312.000	325.000	349.000	0.000	0	0	0	0	0	0
18	0.000	325.000	313.000	0.000	0	0	0	0	0	0
19	0.000	812.000	313.000	0.000	0	0	0	0	0	0
20	312.000	-138.000	349.000	0.000	0	0	0	0	0	0
21	728.000	812.000	313.000	0.000	0	0	0	0	0	0
22	0.000	-138.000	313.000	0.000	0	0	0	0	0	0
23	312.000	812.000	349.000	0.000	0	0	0	0	0	0
24	728.000	-138.000	313.000	0.000	0	0	0	0	0	0
25	312.000	680.000	349.000	0.000	0	0	0	0	0	0
26	312.000	717.000	349.000	0.000	0	0	0	0	0	0
27	0.000	-43.000	313.000	0.000	0	0	0	0	0	0
28	0.000	717.000	313.000	0.000	0	0	0	0	0	0
29	0.000	432.000	313.000	0.000	0	0	0	0	0	0
30	0.000	527.000	313.000	0.000	0	0	0	0	0	0
31	0.000	622.000	313.000	0.000	0	0	0	0	0	0
32	0.000	52.000	313.000	0.000	0	0	0	0	0	0
33	0.000	337.000	313.000	0.000	0	0	0	0	0	0
34	0.000	242.000	313.000	0.000	0	0	0	0	0	0
35	312.000	622.000	349.000	0.000	0	0	0	0	0	0



36	312.000	527.000	349.000	0.000	0	0	0	0	0	0
37	312.000	432.000	349.000	0.000	0	0	0	0	0	0
38	312.000	337.000	349.000	0.000	0	0	0	0	0	0
39	312.000	242.000	349.000	0.000	0	0	0	0	0	0
40	312.000	147.000	349.000	0.000	0	0	0	0	0	0
41	312.000	52.000	349.000	0.000	0	0	0	0	0	0
42	312.000	-43.000	349.000	0.000	0	0	0	0	0	0
43	728.000	717.000	313.000	0.000	0	0	0	0	0	0
44	728.000	622.000	313.000	0.000	0	0	0	0	0	0
45	728.000	527.000	313.000	0.000	0	0	0	0	0	0
46	728.000	432.000	313.000	0.000	0	0	0	0	0	0
47	728.000	337.000	313.000	0.000	0	0	0	0	0	0
48	728.000	242.000	313.000	0.000	0	0	0	0	0	0
49	728.000	147.000	313.000	0.000	0	0	0	0	0	0
50	728.000	52.000	313.000	0.000	0	0	0	0	0	0
51	728.000	-43.000	313.000	0.000	0	0	0	0	0	0

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

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



## 10.2. RIEPILOGO DELLE SEZIONI UTILIZZATE NEL MODELLO STRUTTURALE

### SEZIONI RETTANGOLARI

Codice	Base	H
1	30.000	25.000
2	30.000	30.000
3	25.000	30.000
6	10.000	16.000

### SEZIONI A T

Codice	B	H	h	b
4	80.000	50.000	30.000	35.000
5	50.000	50.000	30.000	25.000

## 10.3. CARICHI PER ELEMENTI TRAVE.

### Carico distribuito con riferimento globale Z

Descrizione	Cod.	Cond. carico	Tipo Azione/categoria	Val. iniz.	Dist. iniz. nodo I	Val. finale	Dist. fin. nodo I	Aliq.inerz.	Aliq.inerz. SLD
Neve	1	Condizione 1	Variabile: Neve	-0.006000	0.000	-0.006000	0.000	0.0000	0.0000

### Carico distribuito con riferimento globale Z, agente sulla lunghezza reale

Descrizione	Cod.	Cond. carico	Tipo Azione/categoria	Val. iniz.	Dist. iniz. nodo I	Val. finale	Dist. fin. nodo I	Aliq.inerz.	Aliq.inerz. SLD
Copertura	2	Condizione 2	Permanente: Permanente portato	-0.001000	0.000	-0.001000	0.000	0.0000	0.0000
Tavolato	3	Condizione 2	Permanente: Permanente portato	-0.001400	0.000	-0.001400	0.000	0.0000	0.0000
peso tamponamento	4	Condizione 2	Permanente: Permanente portato	-0.034000	0.000	-0.034000	0.000	0.0000	0.0000
peso muratura interna	5	Condizione 2	Permanente: Permanente portato	-0.019500	0.000	-0.019500	0.000	0.0000	0.0000

## 10.4. GRUPPI DELLA STRUTTURA

### ELEMENTO FINITO: TRAVE

Numero gruppo	Descrizione gruppo	
1	Pilastrini	
2	Travi	
3	Arcarecci	

### ELEMENTO FINITO: TRAVE DI FONDAZIONE

Numero gruppo	Descrizione gruppo	
1	Trave continua	

## 10.5. GRUPPI ELEMENTO FINITO TRAVE - ELEMENTI CON CARICO APPLICATO

**GRUPPO NUMERO: 3- DESCRIZIONE: ARCARECCI**

Asta	Carichi			
1	Codice carico	1	2	3
	Moltiplicatore	48.00	48.00	48.00
2	Codice carico	1	2	3
	Moltiplicatore	48.00	48.00	48.00
3	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
4	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
5	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
6	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
7	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
8	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
9	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
10	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
11	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
12	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
13	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
14	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
15	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
16	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
17	Codice carico	1	2	3

	Moltiplicatore	95.00	95.00	95.00
18	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
19	Codice carico	1	2	3
	Moltiplicatore	48.00	48.00	48.00
20	Codice carico	1	2	3
	Moltiplicatore	48.00	48.00	48.00
21	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00
22	Codice carico	1	2	3
	Moltiplicatore	95.00	95.00	95.00

**GRUPPO NUMERO: 1- DESCRIZIONE: TRAVE CONTINUA**

Asta	Carichi		
1	Codice carico	4	
	Moltiplicatore	308.00	
2	Codice carico	4	
	Moltiplicatore	308.00	
3	Codice carico	5	
	Moltiplicatore	340.00	
4	Codice carico	5	
	Moltiplicatore	340.00	
5	Codice carico	4	
	Moltiplicatore	308.00	
6	Codice carico	4	
	Moltiplicatore	308.00	
7	Codice carico	4	
	Moltiplicatore	324.00	
8	Codice carico	4	
	Moltiplicatore	324.00	
9	Codice carico	4	
	Moltiplicatore	324.00	
10	Codice carico	4	
	Moltiplicatore	324.00	

## 10.6 COMBINAZIONI DI CARICO

### NORMATIVA: DM 14/02/1992 T.A. (STATICO) E DM 16/01/1996 (SISMICO)

Num.	Descrizione	Parametri	Tipo azione/categoria	Condizione	Moltiplicatore
1	Carichi totali	Azione sismica: Sisma assente	Permanente: Peso Proprio Permanente: Permanente portato Variabile: Neve	Condizione peso proprio Condizione 2 Condizione 1	1.000 1.000 1.000

## 10.7 FORZE/MOMENTI

### FORZE MOMENTI PER GRUPPI TRAVE

#### GRUPPO NUMERO: 1 - DESCRIZIONE: PILASTRI

Elem./C.c. Mz/J	Fx/I	Fx/J	Fy/I	Fy/J	Fz/I	Fz/J	Mx/I	Mx/J	My/I	My/J	Mz/I
1/ 1	1.603e+03	-1.017e+03	4.665e+01	-4.665e+01	-1.299e+01	1.299e+01	4.401e+01	-4.401e+01	4.325e+03	-2.602e+02	1.443e+04
1.685e+02											
2/ 1	1.577e+03	-9.902e+02	4.697e+01	-4.697e+01	2.954e+01	-2.954e+01	-1.930e+01	1.930e+01	-4.828e+03	-4.419e+03	1.451e+04
1.882e+02											
3/ 1	2.561e+03	-1.907e+03	8.895e+00	-8.895e+00	-1.860e+01	1.860e+01	6.433e+00	-6.433e+00	2.164e+03	4.327e+03	3.187e+03
8.284e+01											
4/ 1	1.730e+03	-1.143e+03	-5.795e+01	5.795e+01	2.717e+01	-2.717e+01	1.583e+01	-1.583e+01	-4.186e+03	-4.318e+03	-1.793e+04
2.130e+02											
5/ 1	2.421e+03	-1.767e+03	1.090e+01	-1.090e+01	-1.117e+00	1.117e+00	-4.529e+00	4.529e+00	2.330e+03	-1.940e+03	3.766e+03
3.756e+01											
6/ 1	2.381e+03	-1.727e+03	1.104e+01	-1.104e+01	1.953e+01	-1.953e+01	-6.566e+00	6.566e+00	-3.126e+03	-3.692e+03	3.809e+03
4.527e+01											
7/ 1	1.733e+03	-1.146e+03	3.630e+01	-3.630e+01	-1.645e+01	1.645e+01	-1.010e+01	1.010e+01	1.680e+03	3.468e+03	1.172e+04
3.568e+02											
8/ 1	1.886e+03	-1.299e+03	-4.528e+01	4.528e+01	-1.919e+01	1.919e+01	3.729e+00	-3.729e+00	1.994e+03	4.013e+03	-1.458e+04
4.021e+02											
9/ 1	1.759e+03	-1.172e+03	-5.748e+01	5.748e+01	-7.898e+00	7.898e+00	-3.398e+01	3.398e+01	3.496e+03	-1.024e+03	-1.780e+04
1.891e+02											

#### GRUPPO NUMERO: 2 - DESCRIZIONE: TRAVI

Elem./C.c. Mz/J	Fx/I	Fx/J	Fy/I	Fy/J	Fz/I	Fz/J	Mx/I	Mx/J	My/I	My/J	Mz/I
1/ 1	-4.029e-01	4.029e-01	-1.771e+02	3.908e+02	2.028e+00	-2.028e+00	2.133e-06	-2.133e-06	1.428e+01	-2.069e+02	-5.355e+00
2.697e+04											
2/ 1	-6.707e-01	6.707e-01	-7.149e+02	8.117e+02	5.244e+00	-5.244e+00	2.575e-06	-2.575e-06	2.165e+02	-4.420e+02	2.696e+04
5.979e+04											
3/ 1	-2.020e+01	2.020e+01	9.151e+02	-7.981e+02	-5.800e+00	5.800e+00	4.527e+01	-4.527e+01	4.354e+02	-1.338e+02	5.610e+04
1.155e+04											
4/ 1	-2.005e+01	2.005e+01	4.737e+02	-2.599e+02	-2.680e+00	2.680e+00	4.527e+01	-4.527e+01	1.275e+02	1.271e+02	1.156e+04
2.328e+04											
5/ 1	-1.998e+01	1.998e+01	-6.266e+01	2.764e+02	4.093e-01	-4.093e-01	4.527e+01	-4.527e+01	-1.287e+02	8.978e+01	-2.327e+04
7.168e+03											
6/ 1	-2.011e+01	2.011e+01	-5.988e+02	7.855e+02	3.293e+00	-3.293e+00	4.527e+01	-4.527e+01	-8.354e+01	-1.898e+02	-7.156e+03
5.029e+04											
7/ 1	-1.513e+00	1.513e+00	1.121e+03	-1.094e+03	-5.601e+00	5.601e+00	-3.756e+01	3.756e+01	1.962e+02	-1.290e+02	5.462e+04
4.133e+04											
8/ 1	-1.348e+00	1.348e+00	7.713e+02	-5.575e+02	-2.943e+00	2.943e+00	-3.756e+01	3.756e+01	1.220e+02	1.577e+02	4.133e+04
2.179e+04											
9/ 1	-1.074e+00	1.074e+00	2.358e+02	-2.204e+01	-1.593e-01	1.593e-01	-3.756e+01	3.756e+01	-1.705e+02	1.856e+02	-2.179e+04
3.404e+04											
10/ 1	-1.157e+00	1.157e+00	-3.000e+02	5.137e+02	2.717e+00	-2.717e+00	-3.756e+01	3.756e+01	-1.845e+02	-7.363e+01	-3.405e+04
4.603e+03											
11/ 1	-1.442e+00	1.442e+00	-8.377e+02	9.682e+02	5.719e+00	-5.719e+00	-3.756e+01	3.756e+01	8.348e+01	-4.152e+02	4.593e+03
5.697e+04											
12/ 1	-3.246e-01	3.246e-01	7.987e+02	-7.154e+02	-5.179e+00	5.179e+00	-1.147e-05	1.147e-05	4.107e+02	-2.190e+02	5.503e+04
2.702e+04											
13/ 1	-2.275e-01	2.275e-01	3.911e+02	-1.774e+02	-2.158e+00	2.158e+00	-8.044e-06	8.044e-06	2.144e+02	-9.337e+00	2.701e+04
4.229e+00											
14/ 1	2.720e-01	-2.720e-01	-7.521e+01	2.533e+02	3.185e+00	-3.185e+00	5.728e-06	-5.728e-06	4.131e+01	-3.439e+02	-1.701e+00
1.560e+04											
15/ 1	4.527e-01	-4.527e-01	-3.885e+02	4.691e+02	2.155e+01	-2.155e+01	6.912e-06	-6.912e-06	3.713e+02	-1.298e+03	1.560e+04
3.404e+04											
16/ 1	-2.909e+01	2.909e+01	5.210e+02	-4.235e+02	-2.542e+01	2.542e+01	1.882e+02	-1.882e+02	1.279e+03	4.327e+01	2.962e+04
5.065e+03											
17/ 1	-2.920e+01	2.920e+01	2.885e+02	-1.104e+02	-5.697e+00	5.697e+00	1.882e+02	-1.882e+02	-5.967e+01	6.009e+02	5.064e+03
1.389e+04											
18/ 1	-2.924e+01	2.924e+01	-2.566e+01	2.038e+02	4.902e+00	-4.902e+00	1.882e+02	-1.882e+02	-6.080e+02	1.423e+02	-1.389e+04
2.993e+03											
19/ 1	-2.915e+01	2.915e+01	-3.400e+02	4.956e+02	1.460e+01	-1.460e+01	1.882e+02	-1.882e+02	-1.292e+02	-1.083e+03	-3.002e+03
3.167e+04											
20/ 1	-1.270e+01	1.270e+01	6.507e+02	-6.282e+02	-2.170e+01	2.170e+01	-1.685e+02	1.685e+02	1.073e+03	-8.122e+02	3.514e+04
2.747e+04											
21/ 1	-1.281e+01	1.281e+01	4.923e+02	-3.142e+02	-9.883e+00	9.883e+00	-1.685e+02	1.685e+02	7.945e+02	1.444e+02	2.747e+04
1.084e+04											
22/ 1	-1.301e+01	1.301e+01	1.776e+02	4.769e-01	-3.216e+00	3.216e+00	-1.685e+02	1.685e+02	-1.735e+02	4.790e+02	-1.083e+04



**TRAVE NUMERO: 2 - LUNGHEZZA: 355.00**

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-3.481e+002	+5.516e+003	-4.423e+004	-1.422e-001	+5.764e-006	-7.267e-005	0.28440
71.000	1	-1.092e+003	+5.516e+003	+6.881e+003	-1.411e-001	+1.438e-005	-7.574e-005	0.28224
142.000	1	-7.823e+002	+5.516e+003	+3.603e+004	-1.402e-001	+4.481e-006	-7.881e-005	0.28048
213.000	1	+5.631e+002	+5.516e+003	+4.392e+004	-1.405e-001	-1.396e-005	-8.188e-005	0.28104
284.000	1	+8.849e+002	+5.516e+003	+3.034e+004	-1.422e-001	-3.108e-005	-8.495e-005	0.28442
355.000	1	-1.414e+002	-5.516e+003	+6.095e+003	-1.449e-001	-3.667e-005	-8.803e-005	0.28976

**TRAVE NUMERO: 3 - LUNGHEZZA: 325.00**

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-2.857e+002	-1.718e+003	+3.264e+002	-1.282e-001	+1.954e-005	-2.604e-005	0.25638
65.000	1	-7.166e+002	-1.718e+003	+3.290e+004	-1.269e-001	+1.253e-005	-2.516e-005	0.25386
130.000	1	+4.812e+002	-1.718e+003	+4.043e+004	-1.266e-001	-2.954e-006	-2.429e-005	0.25312
195.000	1	+8.705e+002	-1.718e+003	+2.316e+004	-1.273e-001	-1.638e-005	-2.341e-005	0.25462
260.000	1	+1.274e+003	-1.718e+003	-1.942e+004	-1.287e-001	-1.717e-005	-2.254e-005	0.25738
325.000	1	-8.432e+002	+1.718e+003	+8.823e+004	-1.295e-001	+5.560e-006	-2.166e-005	0.25906

**TRAVE NUMERO: 4 - LUNGHEZZA: 355.00**

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-8.354e+002	+1.469e+003	-8.607e+004	-1.295e-001	+5.560e-006	-2.166e-005	0.25906
71.000	1	-1.306e+003	+1.469e+003	-1.005e+004	-1.278e-001	+2.773e-005	-2.248e-005	0.25560
142.000	1	-8.753e+002	+1.469e+003	+3.539e+004	-1.257e-001	+2.188e-005	-2.330e-005	0.25142
213.000	1	-4.682e+002	+1.469e+003	+5.191e+004	-1.248e-001	+1.751e-006	-2.411e-005	0.24950
284.000	1	+8.031e+002	+1.469e+003	+4.031e+004	-1.255e-001	-1.952e-005	-2.493e-005	0.25094
355.000	1	-3.324e+002	-1.469e+003	-3.765e-001	-1.275e-001	-2.881e-005	-2.575e-005	0.25496

**TRAVE NUMERO: 5 - LUNGHEZZA: 325.00**

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-1.213e+002	+7.753e+003	-5.148e+003	-1.459e-001	+2.524e-005	+1.166e-004	0.29186
65.000	1	-8.020e+002	+7.753e+003	+2.486e+004	-1.442e-001	+2.108e-005	+1.127e-004	0.28846
130.000	1	+4.990e+002	+7.753e+003	+3.436e+004	-1.432e-001	+8.576e-006	+1.087e-004	0.28640
195.000	1	+8.029e+002	+7.753e+003	+2.405e+004	-1.431e-001	-3.754e-006	+1.048e-004	0.28622
260.000	1	+1.113e+003	+7.753e+003	-6.023e+003	-1.437e-001	-7.559e-006	+1.008e-004	0.28736
325.000	1	-4.321e+002	-7.753e+003	+5.623e+004	-1.441e-001	+5.585e-006	+9.688e-005	0.28818

**TRAVE NUMERO: 6 - LUNGHEZZA: 355.00**

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-4.135e+002	-6.822e+003	-5.424e+004	-1.441e-001	+5.585e-006	+9.688e-005	0.28818
71.000	1	-1.157e+003	-6.822e+003	+1.515e+003	-1.429e-001	+1.774e-005	+1.007e-004	0.28572
142.000	1	-8.280e+002	-6.822e+003	+3.391e+004	-1.417e-001	+9.575e-006	+1.045e-004	0.28330
213.000	1	+5.451e+002	-6.822e+003	+4.390e+004	-1.415e-001	-8.368e-006	+1.083e-004	0.28308
284.000	1	+8.739e+002	-6.822e+003	+3.160e+004	-1.428e-001	-2.578e-005	+1.121e-004	0.28568
355.000	1	-1.304e+002	+6.822e+003	+4.056e+003	-1.452e-001	-3.213e-005	+1.159e-004	0.29030

**TRAVE NUMERO: 7 - LUNGHEZZA: 312.00**

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-3.612e+002	+2.490e+003	-2.072e+004	-1.457e-001	+3.060e-005	-8.848e-005	0.29140
62.400	1	-1.049e+003	+2.490e+003	+2.327e+004	-1.398e-001	+2.839e-005	-8.771e-005	0.27956
124.800	1	-6.524e+002	+2.490e+003	+4.254e+004	-1.347e-001	+2.618e-005	-6.782e-005	0.26950
187.200	1	+6.926e+002	+2.490e+003	+4.021e+004	-1.313e-001	+2.397e-005	-4.282e-005	0.26264
249.600	1	+9.852e+002	+2.490e+003	+1.844e+004	-1.294e-001	+2.176e-005	-2.509e-005	0.25882
312.000	1	-2.978e+002	-2.490e+003	+2.159e+004	-1.282e-001	+1.954e-005	-2.604e-005	0.25638

**TRAVE NUMERO: 8 - LUNGHEZZA: 416.00**

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-2.538e+002	-9.623e+002	-2.711e+004	-1.282e-001	+1.954e-005	-2.604e-005	0.25638
83.200	1	-1.170e+003	-9.623e+002	+3.213e+004	-1.254e-001	+2.068e-005	-2.402e-005	0.25080
166.400	1	-8.335e+002	-9.623e+002	+6.335e+004	-1.246e-001	+2.182e-005	+1.445e-005	0.24926
249.600	1	+7.807e+002	-9.623e+002	+6.740e+004	-1.280e-001	+2.296e-005	+6.713e-005	0.25596
332.800	1	+1.255e+003	-9.623e+002	+4.057e+004	-1.357e-001	+2.410e-005	+1.106e-004	0.27138
416.000	1	-3.380e+002	+9.623e+002	+2.568e+004	-1.459e-001	+2.524e-005	+1.166e-004	0.29186

**TRAVE NUMERO: 9 - LUNGHEZZA: 312.00**

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-3.470e+002	-1.770e+003	-1.995e+004	-1.449e-001	-3.667e-005	-8.803e-005	0.28976
62.400	1	-1.034e+003	-1.770e+003	+2.315e+004	-1.390e-001	-3.510e-005	-8.706e-005	0.27802
124.800	1	-6.459e+002	-1.770e+003	+4.200e+004	-1.340e-001	-3.353e-005	-6.737e-005	0.26804
187.200	1	+6.847e+002	-1.770e+003	+3.973e+004	-1.306e-001	-3.196e-005	-4.267e-005	0.26120
249.600	1	+9.702e+002	-1.770e+003	+1.845e+004	-1.287e-001	-3.038e-005	-2.509e-005	0.25738
312.000	1	-2.828e+002	+1.770e+003	+2.064e+004	-1.275e-001	-2.881e-005	-2.575e-005	0.25496

**TRAVE NUMERO: 10 - LUNGHEZZA: 416.00**

Dist.	c.c.	Fy	Mx	Mz	Spost.Z	Rotaz.X	Rotaz.Y	Press. Suolo
0.000	1	-2.364e+002	+5.603e+002	-2.587e+004	-1.275e-001	-2.881e-005	-2.575e-005	0.25496
83.200	1	-1.153e+003	+5.603e+002	+3.192e+004	-1.248e-001	-2.948e-005	-2.331e-005	0.24950
166.400	1	-8.248e+002	+5.603e+002	+6.242e+004	-1.240e-001	-3.014e-005	+1.470e-005	0.24806
249.600	1	+7.731e+002	+5.603e+002	+6.642e+004	-1.274e-001	-3.080e-005	+6.661e-005	0.25472
332.800	1	+1.238e+003	+5.603e+002	+4.022e+004	-1.350e-001	-3.147e-005	+1.096e-004	0.27000
416.000	1	-3.212e+002	-5.603e+002	+2.462e+004	-1.452e-001	-3.213e-005	+1.159e-004	0.29030

## PRESSIONE MASSIMA NEL GRUPPO

Numero trave	Pressione	Distanza
5	0.292	0.000

## 10.8 SPOSTAMENTI/ROTAZIONI NODI NON BLOCCATI

### SPOSTAMENTI/ROTAZIONI NODI NON BLOCCATI

#### COMBINAZIONE DI CARICO: 1 - DESCRIZIONE: CARICHI TOTALI

Nodo	Trasl.X	Trasl.Y	Trasl.Z	Rotaz.X	Rotaz.Y	Rotaz.Z
1	+0.00e+000	+0.00e+000	-1.46e-001	+3.06e-005	-8.85e-005	+0.00e+000
2	+0.00e+000	+0.00e+000	-1.28e-001	+1.95e-005	-2.60e-005	+0.00e+000
3	+0.00e+000	+0.00e+000	-1.46e-001	+2.52e-005	+1.17e-004	+0.00e+000
4	+0.00e+000	+0.00e+000	-1.44e-001	+5.58e-006	+9.69e-005	+0.00e+000
5	+0.00e+000	+0.00e+000	-1.30e-001	+5.56e-006	-2.17e-005	+0.00e+000
6	+0.00e+000	+0.00e+000	-1.42e-001	+5.76e-006	-7.27e-005	+0.00e+000
7	+0.00e+000	+0.00e+000	-1.45e-001	-3.67e-005	-8.80e-005	+0.00e+000
8	+0.00e+000	+0.00e+000	-1.27e-001	-2.88e-005	-2.57e-005	+0.00e+000
9	+0.00e+000	+0.00e+000	-1.45e-001	-3.21e-005	+1.16e-004	+0.00e+000
10	-1.60e-004	-1.77e-003	-1.47e-001	+3.16e-005	-5.67e-005	+1.08e-006
11	+2.10e-003	-1.73e-003	-1.53e-001	-4.64e-006	+4.90e-005	+5.68e-007
12	+1.97e-003	-1.69e-003	-1.47e-001	+2.80e-005	+5.17e-005	-1.40e-006
13	-1.50e-004	-1.83e-003	-1.48e-001	+2.71e-005	-5.69e-005	-5.04e-007
14	+5.85e-004	-2.05e-003	-1.32e-001	+2.84e-005	+1.51e-005	+2.33e-007
15	+1.97e-003	-1.75e-003	-1.48e-001	+2.48e-005	+5.19e-005	+6.15e-007
16	-6.34e-005	-1.79e-003	-1.46e-001	-2.29e-005	-4.99e-005	-1.19e-007
17	+6.85e-004	-2.03e-003	-1.33e-001	-2.85e-005	+1.41e-005	-2.28e-007
18	+1.72e-003	-1.71e-003	-1.44e-001	-1.95e-005	+4.56e-005	+3.22e-007
19	+2.51e-003	-1.69e-003	-1.56e-001	-1.04e-004	+5.17e-005	+5.03e-006
20	+7.43e-004	-2.05e-003	-1.51e-001	+1.83e-004	+1.51e-005	+1.52e-006
21	-7.79e-004	-1.77e-003	-1.58e-001	-1.23e-004	-5.67e-005	+5.92e-006
22	+2.41e-003	-1.75e-003	-1.66e-001	+1.75e-004	+5.19e-005	+4.01e-006
23	+6.73e-004	-2.02e-003	-1.39e-001	-9.89e-005	+1.50e-005	-1.00e-006
24	-7.01e-004	-1.83e-003	-1.70e-001	+2.02e-004	-5.69e-005	-5.12e-006
25	+5.86e-004	-2.02e-003	-1.31e-001	+3.83e-005	+1.50e-005	+1.61e-007
26	+5.94e-004	-2.02e-003	-1.31e-001	-4.03e-005	+1.50e-005	-4.47e-007
27	+2.06e-003	-1.75e-003	-1.51e-001	+1.20e-004	+5.19e-005	+2.86e-006
28	+2.07e-003	-1.69e-003	-1.48e-001	-4.93e-005	+5.17e-005	-3.55e-006
29	+1.91e-003	-1.70e-003	-1.56e-001	-1.12e-004	+4.75e-005	-2.32e-006
30	+2.05e-003	-1.70e-003	-1.60e-001	+2.84e-005	+4.91e-005	-3.79e-007
31	+1.99e-003	-1.69e-003	-1.52e-001	+1.13e-004	+5.07e-005	+1.05e-006
32	+2.02e-003	-1.75e-003	-1.49e-001	-5.45e-005	+5.09e-005	-1.40e-006
33	+1.72e-003	-1.71e-003	-1.45e-001	-5.33e-005	+4.58e-005	-3.86e-007
34	+1.91e-003	-1.72e-003	-1.49e-001	+7.97e-005	+4.72e-005	+2.80e-006
35	+6.25e-004	-2.02e-003	-1.37e-001	+1.30e-004	+1.48e-005	+9.15e-007
36	+7.12e-004	-2.02e-003	-1.47e-001	+4.82e-005	+1.46e-005	+6.40e-007
37	+7.30e-004	-2.03e-003	-1.44e-001	-9.85e-005	+1.43e-005	-2.42e-007
38	+6.89e-004	-2.03e-003	-1.34e-001	-5.85e-005	+1.41e-005	-3.30e-007
39	+6.87e-004	-2.03e-003	-1.37e-001	+5.93e-005	+1.43e-005	+1.57e-009
40	+6.63e-004	-2.04e-003	-1.39e-001	-2.45e-005	+1.46e-005	-5.40e-007
41	+5.99e-004	-2.05e-003	-1.33e-001	-6.19e-005	+1.49e-005	+5.39e-007
42	+6.15e-004	-2.05e-003	-1.35e-001	+1.25e-004	+1.51e-005	+9.72e-007
43	-2.73e-004	-1.77e-003	-1.48e-001	-5.80e-005	-5.67e-005	+3.90e-006
44	-2.42e-004	-1.78e-003	-1.53e-001	+1.34e-004	-5.56e-005	-2.19e-006
45	-4.10e-004	-1.78e-003	-1.64e-001	+4.08e-005	-5.37e-005	-4.56e-007
46	-2.95e-004	-1.78e-003	-1.59e-001	-1.22e-004	-5.19e-005	+2.47e-006
47	-7.13e-005	-1.79e-003	-1.47e-001	-6.03e-005	-5.01e-005	+6.96e-007
48	-2.55e-004	-1.80e-003	-1.52e-001	+8.43e-005	-5.17e-005	-2.76e-006
49	-4.07e-004	-1.81e-003	-1.56e-001	-1.44e-005	-5.37e-005	+2.05e-007
50	-2.40e-004	-1.82e-003	-1.50e-001	-6.81e-005	-5.58e-005	+2.30e-006
51	-2.62e-004	-1.83e-003	-1.52e-001	+1.37e-004	-5.69e-005	-3.50e-006



## MASSIME DEFORMAZIONI NODALI

T	Trasl.X	Trasl.Y	Trasl.Z	Rotaz.X	Rotaz.Y	Rotaz.Z	DLMax
Deform. nodali	+2.51e-003	-2.05e-003	-1.70e-001	+2.02e-004	+1.17e-004	+5.92e-006	+1.70e-001
Nodo	19	20	24	24	3	21	24

## 11. VERIFICA SEZIONI

Lavoro: **Corpo C** Intestazione lavoro: **CORPO c**  
 Elemento: **TRAVE** Metodo di verifica: **Tensioni ammissibili**  
 Gruppo: **3** Descrizione: **Arcarecci**  
 Tabella: **Tabella travi**  
 Tipo legno: **Conifere Qualità II**  
 Coefficienti di forma **abilitati**

**ASTA NUM. 1** NI 19 NF 23 Lungh. 314.1 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0795 0.1144 0.2842 0.4781 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-4	75	0	-0	0	0	0.0	0.1	0.7	0.0	0.1	3	
1	157	5	0	0	-0	-0	59	0.0	15.4	0.0	0.0	14.6	1	
1	314	13	-75	0	-0	-0	-0	0.1	0.1	0.7	0.0	0.2	3	

**ASTA NUM. 2** NI 23 NF 21 Lungh. 417.6 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0797 0.1148 0.2859 0.4803 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	16	100	-0	0	-0	0	0.1	0.1	0.9	0.0	0.2	3	
1	209	7	0	-0	0	-0	105	0.0	27.3	0.0	0.0	25.9	1	
1	418	-2	-100	-0	0	0	-0	0.0	0.0	0.9	0.0	0.1	3	

**ASTA NUM. 3** NI 28 NF 26 Lungh. 314.1 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0795 0.2265 0.5625 0.8685 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	4	136	0	-0	0	0	0.0	0.0	1.3	0.0	0.1	3	
1	157	19	-0	0	-0	-0	107	0.1	27.9	0.0	0.0	26.6	1	
1	314	35	-136	0	-0	-0	0	0.2	0.0	1.3	0.0	0.3	3	

**ASTA NUM. 4** NI 26 NF 43 Lungh. 417.6 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0797 0.2272 0.5658 0.8726 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	38	182	-0	0	-0	0	0.2	0.0	1.7	0.0	0.3	3	
1	209	22	0	-0	0	-0	190	0.1	49.5	0.0	0.0	47.2	1	
1	418	7	-182	-0	0	0	0	0.0	0.0	1.7	0.0	0.1	3	

**ASTA NUM. 5** NI 31 NF 35 Lungh. 314.1 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0795 0.2265 0.5625 0.8685 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	2	136	-0	-0	-0	0	0.0	0.1	1.3	0.0	0.1	3	
1	157	18	-0	-0	-0	0	107	0.1	27.9	0.0	0.0	26.6	1	
1	314	34	-136	-0	-0	0	0	0.2	0.1	1.3	0.0	0.3	3	

**ASTA NUM. 6** NI 35 NF 44 Lungh. 417.6 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0797 0.2272 0.5658 0.8726 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	37	182	0	-0	0	0	0.2	0.1	1.7	0.0	0.3	3	
1	209	21	0	0	-0	0	190	0.1	49.5	0.0	0.0	47.2	1	
1	418	5	-182	0	-0	-0	0	0.0	0.1	1.7	0.0	0.1	3	

**ASTA NUM. 7** NI 30 NF 36 Lungh. 314.1 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0795 0.2265 0.5625 0.8685 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-8	136	-0	-0	-0	0	0.0	0.0	1.3	0.0	0.1	3	
1	157	8	-0	-0	-0	0	107	0.1	27.9	0.0	0.0	26.5	1	
1	314	24	-136	-0	-0	0	0	0.1	0.0	1.3	0.0	0.2	3	

**ASTA NUM. 8** NI 36 NF 45 Lungh. 417.6 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0797 0.2272 0.5658 0.8726 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	27	182	0	0	0	0	0.2	0.0	1.7	0.0	0.2	3	
1	209	11	0	0	0	0	190	0.1	49.5	0.0	0.0	47.1	1	
1	418	-5	-182	0	0	-0	0	0.0	0.0	1.7	0.0	0.1	3	

**ASTA NUM. 9** NI 29 NF 37 Lungh. 314.1 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0795 0.2265 0.5625 0.8685 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-9	136	0	-0	0	0	0.1	0.1	1.3	0.0	0.2	3	
1	157	7	-0	0	-0	-0	107	0.0	27.9	0.0	0.0	26.5	1	
1	314	22	-136	0	-0	-0	0	0.1	0.1	1.3	0.0	0.2	3	

**ASTA NUM. 10** NI 37 NF 46 Lungh. 417.6 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0797 0.2272 0.5658 0.8726 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	25	182	-0	0	-0	0	0.2	0.1	1.7	0.0	0.2	3	
1	209	9	0	-0	0	-0	190	0.1	49.5	0.0	0.0	47.1	1	
1	418	-6	-182	-0	0	0	0	0.0	0.1	1.7	0.0	0.1	3	

**ASTA NUM. 11** NI 34 NF 39 Lungh. 314.1 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0795 0.2265 0.5625 0.8685 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-6	136	-0	0	-0	0	0.0	0.1	1.3	0.0	0.1	3	
1	157	10	-0	-0	0	0	107	0.1	27.9	0.0	0.0	26.6	1	
1	314	26	-136	-0	0	0	0	0.2	0.1	1.3	0.0	0.2	3	

**ASTA NUM. 12** NI 39 NF 48 Lungh. 417.6 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0797 0.2272 0.5658 0.8726 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	28	182	0	-0	0	0	0.2	0.0	1.7	0.0	0.2	3	
1	209	13	0	0	-0	0	190	0.1	49.5	0.0	0.0	47.1	1	
1	418	-3	-182	0	-0	-0	0	0.0	0.0	1.7	0.0	0.0	3	

**ASTA NUM. 13** NI 11 NF 40 Lungh. 314.1 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0795 0.2265 0.5625 0.8685 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-5	136	0	0	0	0	0.0	0.0	1.3	0.0	0.1	3	
1	157	11	-0	0	0	-0	107	0.1	27.9	0.0	0.0	26.6	1	
1	314	26	-136	0	0	-0	0	0.2	0.0	1.3	0.0	0.2	3	

**ASTA NUM. 14** NI 40 NF 49 Lungh. 417.6 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0797 0.2272 0.5658 0.8726 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	30	182	-0	-0	-0	0	0.2	0.0	1.7	0.0	0.2	3	
1	209	14	0	-0	-0	-0	190	0.1	49.5	0.0	0.0	47.1	1	
1	418	-2	-182	-0	-0	0	0	0.0	0.0	1.7	0.0	0.0	3	

**ASTA NUM. 15** NI 32 NF 41 Lungh. 314.1 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0795 0.2265 0.5625 0.8685 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	4	136	0	0	0	0	0.0	0.1	1.3	0.0	0.1	3	
1	157	20	-0	0	0	-0	107	0.1	27.9	0.0	0.0	26.6	1	
1	314	36	-136	0	0	-0	0	0.2	0.1	1.3	0.0	0.3	3	

**ASTA NUM. 16** NI 41 NF 50 Lungh. 417.6 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0797 0.2272 0.5658 0.8726 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	39	182	-0	0	-0	0	0.2	0.0	1.7	0.0	0.3	3	
1	209	23	0	-0	0	-0	190	0.1	49.5	0.0	0.0	47.2	1	
1	418	7	-182	-0	0	0	0	0.0	0.0	1.7	0.0	0.1	3	

**ASTA NUM. 17** NI 27 NF 42 Lungh. 314.1 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0795 0.2265 0.5625 0.8685 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	3	136	-0	-0	-0	0	0.0	0.1	1.3	0.0	0.1	3	
1	157	18	-0	-0	-0	0	107	0.1	27.9	0.0	0.0	26.6	1	
1	314	34	-136	-0	-0	0	0	0.2	0.1	1.3	0.0	0.3	3	

**ASTA NUM. 18** NI 42 NF 51 Lungh. 417.6 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0797 0.2272 0.5658 0.8726 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	37	182	0	-0	0	0	0.2	0.1	1.7	0.0	0.3	3	
1	209	22	0	0	-0	0	190	0.1	49.5	0.0	0.0	47.2	1	
1	418	6	-182	0	-0	-0	0	0.0	0.1	1.7	0.0	0.1	3	

**ASTA NUM. 19** NI 22 NF 20 Lungh. 314.1 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0795 0.1144 0.2842 0.4781 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	-5	75	-0	-0	-0	0	0.0	0.2	0.7	0.0	0.2	3	
1	157	3	0	-0	-0	0	59	0.0	15.4	0.0	0.0	14.6	1	
1	314	12	-75	-0	-0	0	-0	0.1	0.2	0.7	0.0	0.2	3	

**ASTA NUM. 20** NI 20 NF 24 Lungh. 417.6 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0797 0.1148 0.2859 0.4803 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm	kg			kg*m			kg/cmq						
1	0	14	100	0	-0	0	0	0.1	0.1	0.9	0.0	0.2	3	
1	209	5	0	0	-0	0	105	0.0	27.3	0.0	0.0	25.9	1	
1	418	-3	-100	0	-0	-0	-0	0.0	0.1	0.9	0.0	0.1	3	

**ASTA NUM. 21** NI 33 NF 38 Lungh. 314.1 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0795 0.2265 0.5625 0.8685 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	-4	136	0	0	0	0	0.0	0.1	1.3	0.0	0.1	3	
1	157	12	-0	0	0	-0	107	0.1	27.9	0.0	0.0	26.6	1	
1	314	28	-136	0	0	-0	0	0.2	0.1	1.3	0.0	0.2	3	

**ASTA NUM. 22** NI 38 NF 47 Lungh. 417.6 cm SEZ. 6 Rp B= 10.0 H= 16.0 cm

categoria: p.p. y Permanente Neve qy tot.  
 qy medio: 0.0797 0.2272 0.5658 0.8726 kg/cm

NC	x	Fx	Fy	Fz	Mx	My	Mz	Tens(Fx)	Tens(M)	taglio	tors.	Tens(Fx,M)	Loc.	Nota
	cm		kg			kg*m				kg/cmq				
1	0	30	182	-0	0	-0	0	0.2	0.0	1.7	0.0	0.2	3	
1	209	15	0	-0	0	-0	190	0.1	49.5	0.0	0.0	47.1	1	
1	418	-1	-182	-0	0	0	0	0.0	0.0	1.7	0.0	0.0	3	

Lavoro: **Corpo C** Intestazione lavoro: **CORPO c**  
 Elemento: **TRAVE** Gruppo: **2** Tabella: **Tabella travi**  
 Descrizione: **Travi**  
 Spunt. I **30.0** cm Spunt. J **30.0** cm  
 Rck: **300.00** kg/cm<sup>2</sup> Tensione amm. acciaio: **2400.0** kg/cm<sup>2</sup> Coeff. di omogeneizzazione: **15**  
 Coprifermo superiore: **3.0** cm Coprifermo inferiore: **3.0** cm Coprifermo laterale: **3.0** cm  
 Diametro staffe: **8** mm Numero braccia: **2**

**ASTA NUM. 1** NI 20 NF 42 SEZ. Rp B= 30.0 H= 30.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 2.2500 2.2500 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO															
cm	cm	kg			kg*m			cmq				kg/cmq			
1 21.6	0	-0	-177	-2	0	0	0	2.26	2.26	2.26	2.26	-0.01	0.2	0.24	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	10	-0	-198	-2	0	0	-18	2.26	2.26	2.26	2.26	-0.64	31.8	0.27	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	19	-0	-220	-2	0	1	-38	2.26	2.26	2.26	2.26	-1.36	67.2	0.30	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	29	-0	-241	-2	0	1	-60	2.26	2.26	2.26	2.26	-2.15	106.3	0.33	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	38	-0	-263	-2	0	1	-83	2.26	2.26	2.26	2.26	-3.01	149.0	0.36	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	48	-0	-284	-2	0	1	-109	2.26	2.26	2.26	2.26	-3.95	195.4	0.39	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	57	-0	-305	-2	0	1	-137	2.26	2.26	2.26	2.26	-4.96	245.4	0.42	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	67	-0	-327	-2	0	1	-167	2.26	2.26	2.26	2.26	-6.04	299.0	0.45	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	76	-0	-348	-2	0	2	-200	2.26	2.26	2.26	2.26	-7.20	356.2	0.48	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	86	-0	-369	-2	0	2	-234	2.26	2.26	2.26	2.26	-8.43	417.0	0.51	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	95	-0	-391	-2	0	2	-270	2.26	2.26	2.26	2.26	-9.73	481.5	0.54	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							



ASTA NUM. 2 NI 42 NF 14 SEZ. Rp B= 30.0 H= 30.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 2.2500 2.2500 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq	cm	cm
1 21.6	0	-0	-715	-5	0	2	-270	2.26	2.26	2.26	2.26	-9.73	481.3	0.98	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	22	-0	-763	-5	0	3	-429	2.26	2.26	2.26	2.26	-15.46	765.1	1.05	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	43	-0	-812	-5	0	4	-476	2.26	2.26	2.26	2.26	-17.18	850.1	1.11	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							

ASTA NUM. 3 NI 14 NF 41 SEZ. Rp B= 30.0 H= 30.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 2.2500 2.2500 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq	cm	cm
1 21.6	0	-0	915	6	0	4	-424	2.26	2.26	2.26	2.26	-15.29	756.5	1.26	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	5	-0	903	6	0	4	-424	2.26	2.26	2.26	2.26	-15.29	756.5	1.24	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	10	-0	892	6	0	4	-424	2.26	2.26	2.26	2.26	-15.29	756.5	1.22	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	16	-0	880	6	0	3	-421	2.26	2.26	2.26	2.26	-15.19	751.6	1.21	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	21	-0	868	6	0	3	-375	2.26	2.26	2.26	2.26	-13.55	670.4	1.19	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	26	-0	857	6	0	3	-331	2.26	2.26	2.26	2.26	-11.93	590.3	1.18	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	31	-0	845	6	0	3	-286	2.26	2.26	2.26	2.26	-10.33	511.3	1.16	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	36	-0	833	6	0	2	-243	2.26	2.26	2.26	2.26	-8.76	433.4	1.14	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							

1	42	-0	822	6	0	2	-200	2.26	2.26	2.26	2.26	-7.21	356.6	1.13	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	47	-0	810	6	0	2	-157	2.26	2.26	2.26	2.26	-5.68	280.9	1.11	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	52	-0	798	6	0	1	-116	2.26	2.26	2.26	2.26	-4.17	206.2	1.09	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
<b>ASTA NUM. 4</b> NI 41 NF 40 SEZ. Rp B= 30.0 H= 30.0 (trave)															
categoria: p.p. y qy tot.															
qy medio: 2.2500 2.2500 kg/cm															
armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato															
-----															
NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	--	-----			-----			-----				-----			
-----	cm	kg			kg*m			cmq				kg/cmq			
-----	cm	kg			kg*m			cmq				kg/cmq			
-----	-----	-----			-----			-----				-----			
1	0	-0	474	3	0	1	-116	2.26	2.26	2.26	2.26	-4.17	206.4	0.65	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	10	-0	452	3	0	1	-72	2.26	2.26	2.26	2.26	-2.58	127.9	0.62	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	19	-0	431	3	0	1	-30	2.26	2.26	2.26	2.26	-1.07	53.0	0.59	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	29	-0	410	3	0	1	10	2.26	2.26	2.26	2.26	-0.37	18.3	0.56	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	38	-0	388	3	0	0	48	2.26	2.26	2.26	2.26	-1.74	85.9	0.53	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	48	-0	367	3	0	0	84	2.26	2.26	2.26	2.26	-3.03	149.9	0.50	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	57	-0	345	3	0	-0	118	2.26	2.26	2.26	2.26	-4.25	210.3	0.47	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	67	-0	324	3	0	-1	150	2.26	2.26	2.26	2.26	-5.40	267.1	0.44	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	76	-0	303	3	0	-1	179	2.26	2.26	2.26	2.26	-6.47	320.2	0.42	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	86	-0	281	3	0	-1	207	2.26	2.26	2.26	2.26	-7.47	369.7	0.39	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	95	-0	260	3	0	-1	233	2.26	2.26	2.26	2.26	-8.40	415.6	0.36	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							

ASTA NUM. 5 NI 40 NF 39 SEZ. Rp B= 30.0 H= 30.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 2.2500 2.2500 kg/cm

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq		
1 21.6	0	-0	-63	-0	0	-1	233	2.26	2.26	2.26	2.26	-8.40	415.4	0.09	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6	( e armatura base = 4 X 1.13 )						
1 21.6	10	-0	-84	-0	0	-1	226	2.26	2.26	2.26	2.26	-8.14	403.0	0.12	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6	( e armatura base = 4 X 1.13 )						
1 21.6	19	-0	-105	-0	0	-1	217	2.26	2.26	2.26	2.26	-7.82	387.0	0.14	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6	( e armatura base = 4 X 1.13 )						
1 21.6	29	-0	-127	-0	0	-1	206	2.26	2.26	2.26	2.26	-7.42	367.3	0.17	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6	( e armatura base = 4 X 1.13 )						
1 21.6	38	-0	-148	-0	0	-1	193	2.26	2.26	2.26	2.26	-6.95	344.0	0.20	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6	( e armatura base = 4 X 1.13 )						
1 21.6	48	-0	-170	-0	0	-1	178	2.26	2.26	2.26	2.26	-6.41	317.0	0.23	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6	( e armatura base = 4 X 1.13 )						
1 21.6	57	-0	-191	-0	0	-1	160	2.26	2.26	2.26	2.26	-5.79	286.5	0.26	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6	( e armatura base = 4 X 1.13 )						
1 21.6	67	-0	-212	-0	0	-1	141	2.26	2.26	2.26	2.26	-5.10	252.3	0.29	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6	( e armatura base = 4 X 1.13 )						
1 21.6	76	-0	-234	-0	0	-1	120	2.26	2.26	2.26	2.26	-4.33	214.5	0.32	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6	( e armatura base = 4 X 1.13 )						
1 21.6	86	-0	-255	-0	0	-1	97	2.26	2.26	2.26	2.26	-3.50	173.0	0.35	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6	( e armatura base = 4 X 1.13 )						
1 21.6	95	-0	-276	-0	0	-1	72	2.26	2.26	2.26	2.26	-2.59	128.0	0.38	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6	( e armatura base = 4 X 1.13 )						

ASTA NUM. 6 NI 39 NF 17 SEZ. Rp B= 30.0 H= 30.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 2.2500 2.2500 kg/cm

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq		
1 21.6	0	-0	-599	-3	0	-1	72	2.26	2.26	2.26	2.26	-2.58	127.8	0.82	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )										
1 21.6	8	-0	-617	-3	0	-1	21	2.26	2.26	2.26	2.26	-0.76	37.7	0.85	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )										
1 21.6	17	-0	-636	-3	0	-0	-31	2.26	2.26	2.26	2.26	-1.12	55.2	0.87	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )										
1 21.6	25	-0	-655	-3	0	-0	-85	2.26	2.26	2.26	2.26	-3.05	150.9	0.90	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )										
1 21.6	33	-0	-673	-3	0	0	-140	2.26	2.26	2.26	2.26	-5.04	249.3	0.92	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )										
1 21.6	42	-0	-692	-3	0	1	-196	2.26	2.26	2.26	2.26	-7.08	350.4	0.95	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )										
1 21.6	50	-0	-711	-3	0	1	-255	2.26	2.26	2.26	2.26	-9.18	454.4	0.98	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )										
1 21.6	58	-0	-729	-3	0	1	-314	2.26	2.26	2.26	2.26	-11.34	561.1	1.00	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )										
1 21.6	66	-0	-748	-3	0	1	-376	2.26	2.26	2.26	2.26	-13.55	670.6	1.03	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )										
1 21.6	75	-0	-767	-3	0	2	-438	2.26	2.26	2.26	2.26	-15.82	782.8	1.05	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )										
1 21.6	83	-0	-786	-3	0	2	-385	2.26	2.26	2.26	2.26	-13.89	687.5	1.08	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )										

**ASTA NUM. 7** NI 17 NF 38 SEZ. Rp B= 30.0 H= 30.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 2.2500 2.2500 kg/cm

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq	cm	cm
1 21.6	0	-0	1121	6	0	2	-378	2.26	2.26	2.26	2.26	-13.64	674.9	1.54	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	6	-0	1108	6	0	2	-378	2.26	2.26	2.26	2.26	-13.64	674.9	1.52	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	12	-0	1094	6	0	1	-413	2.26	2.26	2.26	2.26	-14.91	737.9	1.50	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							

**ASTA NUM. 8** NI 38 NF 37 SEZ. Rp B= 30.0 H= 30.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 2.2500 2.2500 kg/cm

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq	cm	cm
1 21.6	0	-0	771	3	0	1	-413	2.26	2.26	2.26	2.26	-14.91	737.9	1.06	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	10	-0	750	3	0	1	-341	2.26	2.26	2.26	2.26	-12.30	608.9	1.03	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	19	-0	729	3	0	1	-271	2.26	2.26	2.26	2.26	-9.77	483.5	1.00	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	29	-0	707	3	0	0	-203	2.26	2.26	2.26	2.26	-7.31	361.7	0.97	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	38	-0	686	3	0	0	-136	2.26	2.26	2.26	2.26	-4.92	243.6	0.94	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	48	-0	664	3	0	-0	-72	2.26	2.26	2.26	2.26	-2.61	129.1	0.91	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	57	-0	643	3	0	-0	-10	2.26	2.26	2.26	2.26	-0.37	18.2	0.88	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	67	-0	622	3	0	-1	50	2.26	2.26	2.26	2.26	-1.80	89.0	0.85	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							

```

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )
  1  76      -0    600      3      0      -1    108    2.26  2.26  2.26  2.26  -3.89  192.6  0.82  0.00
21.6

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )
  1  86      -0    579      3      0      -1    164    2.26  2.26  2.26  2.26  -5.91  292.6  0.79  0.00
21.6

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )
  1  95      -0    558      3      0      -2    218    2.26  2.26  2.26  2.26  -7.86  389.0  0.76  0.00
21.6

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )
ASTA NUM. 9    NI 37    NF 36    SEZ. Rp B= 30.0 H= 30.0 (trave)

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categoria: p.p. y qy tot.  
qy medio: 2.2500 2.2500 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg			kg*m			cmq				kg/cmq			
1	0	-0	236	0	0	-2	218	2.26	2.26	2.26	2.26	-7.86	389.0	0.32	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	10	-0	214	0	0	-2	239	2.26	2.26	2.26	2.26	-8.63	427.2	0.29	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	19	-0	193	0	0	-2	259	2.26	2.26	2.26	2.26	-9.33	461.8	0.26	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	29	-0	172	0	0	-2	276	2.26	2.26	2.26	2.26	-9.96	492.7	0.24	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	38	-0	150	0	0	-2	291	2.26	2.26	2.26	2.26	-10.51	520.0	0.21	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	48	-0	129	0	0	-2	305	2.26	2.26	2.26	2.26	-10.99	543.7	0.18	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	57	-0	108	0	0	-2	316	2.26	2.26	2.26	2.26	-11.39	563.7	0.15	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	67	-0	86	0	0	-2	325	2.26	2.26	2.26	2.26	-11.72	580.2	0.12	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	76	-0	65	0	0	-2	332	2.26	2.26	2.26	2.26	-11.98	593.0	0.09	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	86	-0	43	0	0	-2	337	2.26	2.26	2.26	2.26	-12.17	602.2	0.06	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	95	-0	22	0	0	-2	340	2.26	2.26	2.26	2.26	-12.28	607.7	0.03	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							

ASTA NUM. 10 NI 36 NF 35 SEZ. Rp B= 30.0 H= 30.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 2.2500 2.2500 kg/cm

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg			kg*m			cmq				kg/cmq			
1 21.6	0	-0	-300	-3	0	-2	341	2.26	2.26	2.26	2.26	-12.28	607.9	0.41	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	10	-0	-321	-3	0	-2	311	2.26	2.26	2.26	2.26	-11.22	555.2	0.44	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	19	-0	-343	-3	0	-1	279	2.26	2.26	2.26	2.26	-10.08	498.9	0.47	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	29	-0	-364	-3	0	-1	246	2.26	2.26	2.26	2.26	-8.87	438.9	0.50	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	38	-0	-385	-3	0	-1	210	2.26	2.26	2.26	2.26	-7.59	375.4	0.53	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	48	-0	-407	-3	0	-1	173	2.26	2.26	2.26	2.26	-6.23	308.2	0.56	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	57	-0	-428	-3	0	-0	133	2.26	2.26	2.26	2.26	-4.80	237.4	0.59	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	67	-0	-450	-3	0	-0	91	2.26	2.26	2.26	2.26	-3.29	162.9	0.62	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	76	-0	-471	-3	0	0	48	2.26	2.26	2.26	2.26	-1.71	84.8	0.65	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	86	-0	-492	-3	0	0	2	2.26	2.26	2.26	2.26	-0.06	3.1	0.68	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	95	-0	-514	-3	0	1	-46	2.26	2.26	2.26	2.26	-1.66	82.2	0.70	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							

ASTA NUM. 11 NI 35 NF 25 SEZ. Rp B= 30.0 H= 30.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 2.2500 2.2500 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq	cm	cm
1 21.6	0	-0	-838	-6	0	1	-46	2.26	2.26	2.26	2.26	-1.66	82.0	1.15	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	6	-0	-851	-6	0	1	-95	2.26	2.26	2.26	2.26	-3.42	169.4	1.17	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	12	-0	-864	-6	0	1	-145	2.26	2.26	2.26	2.26	-5.22	258.2	1.18	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	17	-0	-877	-6	0	2	-195	2.26	2.26	2.26	2.26	-7.04	348.3	1.20	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	23	-0	-890	-6	0	2	-246	2.26	2.26	2.26	2.26	-8.89	439.8	1.22	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	29	-0	-903	-6	0	2	-298	2.26	2.26	2.26	2.26	-10.76	532.7	1.24	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	35	-0	-916	-6	0	3	-351	2.26	2.26	2.26	2.26	-12.67	626.8	1.26	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	41	-0	-929	-6	0	3	-405	2.26	2.26	2.26	2.26	-14.60	722.4	1.27	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	46	-0	-942	-6	0	3	-459	2.26	2.26	2.26	2.26	-16.56	819.3	1.29	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	52	-0	-955	-6	0	4	-514	2.26	2.26	2.26	2.26	-18.54	917.5	1.31	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1 21.6	58	-0	-968	-6	0	4	-424	2.26	2.26	2.26	2.26	-15.31	757.8	1.33	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							



ASTA NUM. 12 NI 25 NF 26 SEZ. Rp B= 30.0 H= 30.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 2.2500 2.2500 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO															
	cm		kg			kg*m				cmq			kg/cmq		
1	0	-0	799	5	0	4	-430	2.26	2.26	2.26	2.26	-15.53	768.6	1.10	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	19	-0	757	5	0	3	-406	2.26	2.26	2.26	2.26	-14.66	725.6	1.04	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	37	-0	715	5	0	2	-270	2.26	2.26	2.26	2.26	-9.75	482.4	0.98	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							

ASTA NUM. 13 NI 26 NF 23 SEZ. Rp B= 30.0 H= 30.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 2.2500 2.2500 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO															
	cm		kg			kg*m				cmq			kg/cmq		
1	0	-0	391	2	0	2	-270	2.26	2.26	2.26	2.26	-9.74	482.2	0.54	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	10	-0	370	2	0	2	-234	2.26	2.26	2.26	2.26	-8.44	417.7	0.51	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	19	-0	348	2	0	2	-200	2.26	2.26	2.26	2.26	-7.21	356.8	0.48	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	29	-0	327	2	0	2	-168	2.26	2.26	2.26	2.26	-6.05	299.5	0.45	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	38	-0	306	2	0	1	-138	2.26	2.26	2.26	2.26	-4.97	245.9	0.42	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	48	-0	284	2	0	1	-110	2.26	2.26	2.26	2.26	-3.96	195.8	0.39	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	57	-0	263	2	0	1	-84	2.26	2.26	2.26	2.26	-3.02	149.4	0.36	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							
1	67	-0	242	2	0	1	-60	2.26	2.26	2.26	2.26	-2.16	106.7	0.33	0.00
21.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )							

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apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )
  1  76      -0    220      2      0      1    -38    2.26  2.26  2.26  2.26  -1.36   67.5   0.30  0.00
21.6

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )
  1  86      -0    199      2      0      0    -18    2.26  2.26  2.26  2.26  -0.65   32.0   0.27  0.00
21.6

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )
  1  95      -0    177      2      0      0     -0    2.26  2.26  2.26  2.26  -0.00    0.1   0.24  0.00
21.6

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 21.6 ( e armatura base = 4 X 1.13 )

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**ASTA NUM. 14** NI 22 NF 27 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO															
	cm		kg			kg*m					cmq		kg/cmq		
1	0	-0	-75	-3	0	0	0	2.26	2.26	2.26	2.26	-0.02	0.7	0.13	0.00
17.6															
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1	10	-0	-93	-3	0	1	-8	2.26	2.26	2.26	2.26	-0.40	17.7	0.16	0.00
17.6															
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1	19	-0	-111	-3	0	1	-18	2.26	2.26	2.26	2.26	-0.89	39.1	0.19	0.00
17.6															
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1	29	-0	-129	-3	0	1	-29	2.26	2.26	2.26	2.26	-1.46	64.3	0.22	0.00
17.6															
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1	38	-0	-146	-3	0	2	-42	2.26	2.26	2.26	2.26	-2.12	93.2	0.25	0.00
17.6															
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1	48	-0	-164	-3	0	2	-57	2.26	2.26	2.26	2.26	-2.86	125.9	0.28	0.00
17.6															
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1	57	-0	-182	-3	0	2	-73	2.26	2.26	2.26	2.26	-3.69	162.3	0.31	0.00
17.6															
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1	67	-0	-200	-3	0	3	-91	2.26	2.26	2.26	2.26	-4.60	202.5	0.34	0.00
17.6															
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1	76	-0	-218	-3	0	3	-111	2.26	2.26	2.26	2.26	-5.60	246.5	0.37	0.00
17.6															
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1	86	-0	-235	-3	0	3	-133	2.26	2.26	2.26	2.26	-6.68	294.1	0.40	0.00
17.6															
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1	95	-0	-253	-3	0	3	-156	2.26	2.26	2.26	2.26	-7.85	345.6	0.43	0.00
17.6															
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										

ASTA NUM. 15 NI 27 NF 15 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg*m	cmq	kg/cmq										
1	0	-0	-389	-22	0	4	-156	2.26	2.26	2.26	2.26	-7.85	345.6	0.65	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	22	-0	-429	-22	0	8	-244	2.26	2.26	2.26	2.26	-12.27	540.2	0.72	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	43	-0	-469	-22	0	13	-270	2.26	2.26	2.26	2.26	-13.59	598.2	0.79	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														

ASTA NUM. 16 NI 15 NF 32 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg*m	cmq	kg/cmq										
1	0	-0	521	25	0	13	-218	2.26	2.26	2.26	2.26	-10.97	483.0	0.88	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	5	-0	511	25	0	11	-218	2.26	2.26	2.26	2.26	-10.97	483.0	0.86	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	10	-0	502	25	0	10	-218	2.26	2.26	2.26	2.26	-10.97	483.0	0.84	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	16	-0	492	25	0	9	-217	2.26	2.26	2.26	2.26	-10.93	481.2	0.83	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	21	-0	482	25	0	8	-192	2.26	2.26	2.26	2.26	-9.66	425.1	0.81	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	26	-0	472	25	0	6	-167	2.26	2.26	2.26	2.26	-8.41	370.1	0.80	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	31	-0	463	25	0	5	-143	2.26	2.26	2.26	2.26	-7.18	316.3	0.78	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	36	-0	453	25	0	4	-119	2.26	2.26	2.26	2.26	-5.99	263.6	0.76	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														

1	42	-0	443	25	0	2	-96	2.26	2.26	2.26	2.26	-4.82	212.0	0.75	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	47	-0	433	25	0	1	-73	2.26	2.26	2.26	2.26	-3.67	161.5	0.73	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	52	-0	424	25	0	-0	-51	2.26	2.26	2.26	2.26	-2.55	112.2	0.71	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
<b>ASTA NUM. 17</b> NI 32 NF 11 SEZ. Rp B= 30.0 H= 25.0 (trave)															
categoria: p.p. y qy tot.															
qy medio: 1.8750 1.8750 kg/cm															
armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato															
-----															
NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	--	-----			-----			-----				-----			
-----	cm	kg			kg*m			cmq				kg/cmq			
-----	cm	kg			kg*m			cmq				kg/cmq			
-----	-----	-----			-----			-----				-----			
1	0	-0	289	6	0	-1	-51	2.26	2.26	2.26	2.26	-2.55	112.2	0.49	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	10	-0	271	6	0	-1	-24	2.26	2.26	2.26	2.26	-1.21	53.3	0.46	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	19	-0	253	6	0	-2	1	2.26	2.26	2.26	2.26	-0.07	3.0	0.43	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	29	-0	235	6	0	-2	24	2.26	2.26	2.26	2.26	-1.21	53.1	0.40	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	38	-0	217	6	0	-3	45	2.26	2.26	2.26	2.26	-2.29	100.8	0.37	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	48	-0	199	6	0	-3	65	2.26	2.26	2.26	2.26	-3.28	144.6	0.34	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	57	-0	182	6	0	-4	83	2.26	2.26	2.26	2.26	-4.20	184.7	0.31	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	67	-0	164	6	0	-4	100	2.26	2.26	2.26	2.26	-5.02	221.1	0.28	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	76	-0	146	6	0	-5	115	2.26	2.26	2.26	2.26	-5.76	253.7	0.25	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	86	-0	128	6	0	-5	128	2.26	2.26	2.26	2.26	-6.42	282.6	0.22	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	95	-0	110	6	0	-6	139	2.26	2.26	2.26	2.26	-6.99	307.7	0.19	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

ASTA NUM. 18 NI 11 NF 34 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq		
1 17.6	0	-0	-26	-5	0	-6	139	2.26	2.26	2.26	2.26	-6.99	307.7	0.04	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	10	-0	-43	-5	0	-6	136	2.26	2.26	2.26	2.26	-6.82	300.4	0.07	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	19	-0	-61	-5	0	-5	131	2.26	2.26	2.26	2.26	-6.57	289.4	0.10	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	29	-0	-79	-5	0	-5	124	2.26	2.26	2.26	2.26	-6.24	274.6	0.13	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	38	-0	-97	-5	0	-4	116	2.26	2.26	2.26	2.26	-5.82	256.1	0.16	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	48	-0	-115	-5	0	-4	106	2.26	2.26	2.26	2.26	-5.31	233.9	0.19	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	57	-0	-133	-5	0	-3	94	2.26	2.26	2.26	2.26	-4.72	207.8	0.22	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	67	-0	-150	-5	0	-3	80	2.26	2.26	2.26	2.26	-4.04	178.1	0.25	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	76	-0	-168	-5	0	-2	65	2.26	2.26	2.26	2.26	-3.28	144.6	0.28	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	86	-0	-186	-5	0	-2	48	2.26	2.26	2.26	2.26	-2.44	107.3	0.31	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	95	-0	-204	-5	0	-1	30	2.26	2.26	2.26	2.26	-1.51	66.3	0.34	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

ASTA NUM. 19 NI 34 NF 18 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 1.8750 1.8750 kg/cm

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq		
1 17.6	0	-0	-340	-15	0	-1	30	2.26	2.26	2.26	2.26	-1.51	66.5	0.57	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	8	-0	-356	-15	0	-0	1	2.26	2.26	2.26	2.26	-0.06	2.6	0.60	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	17	-0	-371	-15	0	1	-29	2.26	2.26	2.26	2.26	-1.46	64.2	0.62	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	25	-0	-387	-15	0	2	-60	2.26	2.26	2.26	2.26	-3.04	133.9	0.65	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	33	-0	-402	-15	0	4	-93	2.26	2.26	2.26	2.26	-4.69	206.4	0.68	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	42	-0	-418	-15	0	5	-127	2.26	2.26	2.26	2.26	-6.40	281.8	0.70	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	50	-0	-433	-15	0	6	-163	2.26	2.26	2.26	2.26	-8.18	360.0	0.73	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	58	-0	-449	-15	0	7	-199	2.26	2.26	2.26	2.26	-10.02	441.1	0.76	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	66	-0	-464	-15	0	8	-237	2.26	2.26	2.26	2.26	-11.93	525.1	0.78	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	75	-0	-480	-15	0	10	-276	2.26	2.26	2.26	2.26	-13.90	611.9	0.81	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	83	-0	-496	-15	0	11	-242	2.26	2.26	2.26	2.26	-12.19	536.9	0.83	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										

ASTA NUM. 20 NI 18 NF 33 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg*m	cmq	kg/cmq										
1 17.6	0	-0	651	22	0	11	-254	2.26	2.26	2.26	2.26	-12.77	562.2	1.10	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	6	-0	639	22	0	9	-254	2.26	2.26	2.26	2.26	-12.77	562.2	1.08	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	12	-0	628	22	0	8	-275	2.26	2.26	2.26	2.26	-13.82	608.5	1.06	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

ASTA NUM. 21 NI 33 NF 29 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg*m	cmq	kg/cmq										
1 17.6	0	-0	492	10	0	8	-275	2.26	2.26	2.26	2.26	-13.82	608.5	0.83	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	10	-0	474	10	0	7	-229	2.26	2.26	2.26	2.26	-11.51	506.8	0.80	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	19	-0	457	10	0	6	-185	2.26	2.26	2.26	2.26	-9.29	408.8	0.77	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	29	-0	439	10	0	5	-142	2.26	2.26	2.26	2.26	-7.15	314.6	0.74	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	38	-0	421	10	0	4	-101	2.26	2.26	2.26	2.26	-5.09	224.1	0.71	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	48	-0	403	10	0	3	-62	2.26	2.26	2.26	2.26	-3.12	137.3	0.68	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	57	-0	385	10	0	2	-25	2.26	2.26	2.26	2.26	-1.23	54.3	0.65	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	67	-0	368	10	0	1	11	2.26	2.26	2.26	2.26	-0.57	24.9	0.62	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

1	76	-0	350	10	0	0	45	2.26	2.26	2.26	2.26	-2.28	100.4	0.59	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	86	-0	332	10	0	-1	78	2.26	2.26	2.26	2.26	-3.91	172.1	0.56	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	95	-0	314	10	0	-1	108	2.26	2.26	2.26	2.26	-5.45	240.1	0.53	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
<b>ASTA NUM. 22</b> NI 29 NF 30 SEZ. Rp B= 30.0 H= 25.0 (trave)															
categoria: p.p. y qy tot.															
qy medio: 1.8750 1.8750 kg/cm															
armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato															
-----															
NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	--	-----			-----			-----				-----			
-----	cm	kg			kg*m			cmq				kg/cmq			
-----	cm	kg			kg*m			cmq				kg/cmq			
-----	-----	-----			-----			-----				-----			
1	0	-0	178	3	0	-2	108	2.26	2.26	2.26	2.26	-5.45	239.9	0.30	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	10	-0	160	3	0	-2	124	2.26	2.26	2.26	2.26	-6.26	275.4	0.27	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	19	-0	142	3	0	-2	139	2.26	2.26	2.26	2.26	-6.98	307.2	0.24	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	29	-0	124	3	0	-3	151	2.26	2.26	2.26	2.26	-7.61	335.2	0.21	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	38	-0	106	3	0	-3	162	2.26	2.26	2.26	2.26	-8.17	359.5	0.18	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	48	-0	89	3	0	-3	172	2.26	2.26	2.26	2.26	-8.63	380.0	0.15	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	57	-0	71	3	0	-4	179	2.26	2.26	2.26	2.26	-9.01	396.8	0.12	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	67	-0	53	3	0	-4	185	2.26	2.26	2.26	2.26	-9.31	409.8	0.09	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	76	-0	35	3	0	-4	189	2.26	2.26	2.26	2.26	-9.52	419.1	0.06	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	86	-0	17	3	0	-4	192	2.26	2.26	2.26	2.26	-9.65	424.7	0.03	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	95	-0	-0	3	0	-5	193	2.26	2.26	2.26	2.26	-9.69	426.4	0.01	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							



ASTA NUM. 23 NI 30 NF 31 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq		
1 17.6	0	-0	-137	-5	0	-5	192	2.26	2.26	2.26	2.26	-9.68	426.2	0.23	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	10	-0	-155	-5	0	-4	179	2.26	2.26	2.26	2.26	-8.98	395.5	0.26	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	19	-0	-172	-5	0	-4	163	2.26	2.26	2.26	2.26	-8.20	361.1	0.29	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	29	-0	-190	-5	0	-3	146	2.26	2.26	2.26	2.26	-7.34	323.0	0.32	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	38	-0	-208	-5	0	-3	127	2.26	2.26	2.26	2.26	-6.38	281.0	0.35	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	48	-0	-226	-5	0	-2	106	2.26	2.26	2.26	2.26	-5.35	235.4	0.38	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	57	-0	-244	-5	0	-2	84	2.26	2.26	2.26	2.26	-4.22	186.0	0.41	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	67	-0	-262	-5	0	-1	60	2.26	2.26	2.26	2.26	-3.02	132.8	0.44	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	76	-0	-279	-5	0	-1	34	2.26	2.26	2.26	2.26	-1.72	75.9	0.47	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	86	-0	-297	-5	0	-1	7	2.26	2.26	2.26	2.26	-0.35	15.2	0.50	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	95	-0	-315	-5	0	-0	-22	2.26	2.26	2.26	2.26	-1.12	49.2	0.53	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

ASTA NUM. 24 NI 31 NF 12 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq	cm	cm
1	0	-0	-450	-23	0	0	-22	2.26	2.26	2.26	2.26	-1.12	49.2	0.76	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	6	-0	-461	-23	0	2	-49	2.26	2.26	2.26	2.26	-2.45	107.8	0.78	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	12	-0	-472	-23	0	3	-76	2.26	2.26	2.26	2.26	-3.81	167.7	0.79	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	17	-0	-483	-23	0	4	-103	2.26	2.26	2.26	2.26	-5.20	229.1	0.81	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	23	-0	-494	-23	0	5	-132	2.26	2.26	2.26	2.26	-6.63	291.8	0.83	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	29	-0	-505	-23	0	7	-161	2.26	2.26	2.26	2.26	-8.08	355.9	0.85	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	35	-0	-515	-23	0	8	-190	2.26	2.26	2.26	2.26	-9.57	421.5	0.87	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	41	-0	-526	-23	0	9	-220	2.26	2.26	2.26	2.26	-11.09	488.4	0.89	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	46	-0	-537	-23	0	11	-251	2.26	2.26	2.26	2.26	-12.65	556.7	0.90	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	52	-0	-548	-23	0	12	-283	2.26	2.26	2.26	2.26	-14.23	626.5	0.92	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	58	-0	-559	-23	0	13	-231	2.26	2.26	2.26	2.26	-11.63	511.9	0.94	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

**ASTA NUM. 25** NI 12 NF 28 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 1.8750 1.8750 kg/cm

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq	cm	cm
1 17.6	0	-0	458	24	0	14	-244	2.26	2.26	2.26	2.26	-12.26	539.8	0.77	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	19	-0	423	24	0	9	-231	2.26	2.26	2.26	2.26	-11.62	511.4	0.71	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	37	-0	388	24	0	5	-156	2.26	2.26	2.26	2.26	-7.84	345.1	0.65	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

**ASTA NUM. 26** NI 28 NF 19 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 1.8750 1.8750 kg/cm

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq	cm	cm
1 17.6	0	-0	253	5	0	5	-156	2.26	2.26	2.26	2.26	-7.84	345.1	0.43	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	10	-0	235	5	0	4	-133	2.26	2.26	2.26	2.26	-6.67	293.7	0.40	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	19	-0	218	5	0	4	-111	2.26	2.26	2.26	2.26	-5.59	246.1	0.37	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	29	-0	200	5	0	3	-91	2.26	2.26	2.26	2.26	-4.59	202.2	0.34	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	38	-0	182	5	0	3	-73	2.26	2.26	2.26	2.26	-3.68	162.1	0.31	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	48	-0	164	5	0	2	-57	2.26	2.26	2.26	2.26	-2.85	125.7	0.28	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	57	-0	146	5	0	2	-42	2.26	2.26	2.26	2.26	-2.11	93.0	0.25	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	67	-0	128	5	0	2	-29	2.26	2.26	2.26	2.26	-1.46	64.1	0.22	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

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apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )
  1  76      -0   111      5      0      1      -18   2.26  2.26  2.26  2.26  -0.88   39.0   0.19  0.00
17.6

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )
  1  86      -0   93      5      0      1      -8    2.26  2.26  2.26  2.26  -0.40   17.6   0.16  0.00
17.6

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )
  1  95      -0   75      5      0      0      0    2.26  2.26  2.26  2.26  -0.01    0.3   0.13  0.00
17.6

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )

```

**ASTA NUM. 27** NI 24 NF 51 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO		-----			-----			-----				-----			
cm	cm	kg			kg*m			cmq				kg/cmq			
1	0	-0	-100	5	0	-0	0	2.26	2.26	2.26	2.26	-0.01	0.3	0.17	0.00
17.6															
apost= --	aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )											
1	10	-0	-118	5	0	-1	-10	2.26	2.26	2.26	2.26	-0.52	22.8	0.20	0.00
17.6															
apost= --	aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )											
1	19	-0	-136	5	0	-1	-22	2.26	2.26	2.26	2.26	-1.12	49.5	0.23	0.00
17.6															
apost= --	aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )											
1	29	-0	-154	5	0	-2	-36	2.26	2.26	2.26	2.26	-1.82	79.9	0.26	0.00
17.6															
apost= --	aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )											
1	38	-0	-171	5	0	-2	-52	2.26	2.26	2.26	2.26	-2.59	114.1	0.29	0.00
17.6															
apost= --	aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )											
1	48	-0	-189	5	0	-3	-69	2.26	2.26	2.26	2.26	-3.45	152.1	0.32	0.00
17.6															
apost= --	aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )											
1	57	-0	-207	5	0	-3	-87	2.26	2.26	2.26	2.26	-4.40	193.8	0.35	0.00
17.6															
apost= --	aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )											
1	67	-0	-225	5	0	-4	-108	2.26	2.26	2.26	2.26	-5.43	239.2	0.38	0.00
17.6															
apost= --	aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )											
1	76	-0	-243	5	0	-4	-130	2.26	2.26	2.26	2.26	-6.55	288.4	0.41	0.00
17.6															
apost= --	aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )											
1	86	-0	-260	5	0	-5	-154	2.26	2.26	2.26	2.26	-7.75	341.4	0.44	0.00
17.6															
apost= --	aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )											
1	95	-0	-278	5	0	-5	-180	2.26	2.26	2.26	2.26	-9.04	398.1	0.47	0.00
17.6															
apost= --	aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )											

ASTA NUM. 28 NI 51 NF 13 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg*m	cmq	kg/cmq										
1	0	-0	-459	27	0	-5	-180	2.26	2.26	2.26	2.26	-9.04	398.1	0.77	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	22	-0	-500	27	0	-11	-283	2.26	2.26	2.26	2.26	-14.23	626.4	0.84	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	43	-0	-540	27	0	-17	-314	2.26	2.26	2.26	2.26	-15.77	694.5	0.91	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														

ASTA NUM. 29 NI 13 NF 50 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg*m	cmq	kg/cmq										
1	0	-0	603	-31	0	-17	-261	2.26	2.26	2.26	2.26	-13.13	578.1	1.01	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	5	-0	593	-31	0	-15	-261	2.26	2.26	2.26	2.26	-13.13	578.1	1.00	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	10	-0	583	-31	0	-13	-261	2.26	2.26	2.26	2.26	-13.13	578.1	0.98	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	16	-0	574	-31	0	-12	-260	2.26	2.26	2.26	2.26	-13.06	575.1	0.97	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	21	-0	564	-31	0	-10	-230	2.26	2.26	2.26	2.26	-11.58	509.6	0.95	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	26	-0	554	-31	0	-9	-201	2.26	2.26	2.26	2.26	-10.11	445.2	0.93	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	31	-0	544	-31	0	-7	-172	2.26	2.26	2.26	2.26	-8.68	382.0	0.92	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														
1	36	-0	535	-31	0	-5	-144	2.26	2.26	2.26	2.26	-7.26	319.8	0.90	0.00
17.6	apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )														

1	42	-0	525	-31	0	-4	-117	2.26	2.26	2.26	2.26	-5.88	258.8	0.88	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	47	-0	515	-31	0	-2	-90	2.26	2.26	2.26	2.26	-4.52	198.9	0.87	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	52	-0	505	-31	0	-1	-63	2.26	2.26	2.26	2.26	-3.18	140.1	0.85	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
<b>ASTA NUM. 30</b> NI 50 NF 49 SEZ. Rp B= 30.0 H= 25.0 (trave)															
categoria: p.p. y qy tot.															
qy medio: 1.8750 1.8750 kg/cm															
armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato															
-----															
NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	--	-----			-----			-----				-----			
-----															
cm	cm	kg			kg*m			cmq				kg/cmq			
-----															
1	0	-0	324	-8	0	-0	-63	2.26	2.26	2.26	2.26	-3.18	140.1	0.55	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	10	-0	307	-8	0	0	-33	2.26	2.26	2.26	2.26	-1.68	73.7	0.52	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	19	-0	289	-8	0	1	-5	2.26	2.26	2.26	2.26	-0.25	11.1	0.49	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	29	-0	271	-8	0	2	22	2.26	2.26	2.26	2.26	-1.09	47.8	0.46	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	38	-0	253	-8	0	3	46	2.26	2.26	2.26	2.26	-2.34	102.9	0.43	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	48	-0	235	-8	0	4	70	2.26	2.26	2.26	2.26	-3.51	154.3	0.40	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	57	-0	218	-8	0	4	91	2.26	2.26	2.26	2.26	-4.59	202.0	0.37	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	67	-0	200	-8	0	5	111	2.26	2.26	2.26	2.26	-5.59	245.9	0.34	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	76	-0	182	-8	0	6	129	2.26	2.26	2.26	2.26	-6.50	286.0	0.31	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	86	-0	164	-8	0	7	146	2.26	2.26	2.26	2.26	-7.32	322.4	0.28	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	95	-0	146	-8	0	7	160	2.26	2.26	2.26	2.26	-8.07	355.1	0.25	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

ASTA NUM. 31 NI 49 NF 48 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.

qy medio: 1.8750 1.8750 kg/cm

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg			kg*m			cmq				kg/cmq			
1 17.6	0	-0	-35	5	0	8	160	2.26	2.26	2.26	2.26	-8.07	355.3	0.06	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	10	-0	-53	5	0	7	156	2.26	2.26	2.26	2.26	-7.86	346.0	0.09	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	19	-0	-71	5	0	7	150	2.26	2.26	2.26	2.26	-7.56	332.9	0.12	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	29	-0	-89	5	0	6	143	2.26	2.26	2.26	2.26	-7.18	316.1	0.15	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	38	-0	-107	5	0	5	133	2.26	2.26	2.26	2.26	-6.71	295.5	0.18	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	48	-0	-124	5	0	5	122	2.26	2.26	2.26	2.26	-6.16	271.2	0.21	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	57	-0	-142	5	0	4	110	2.26	2.26	2.26	2.26	-5.52	243.1	0.24	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	67	-0	-160	5	0	4	95	2.26	2.26	2.26	2.26	-4.80	211.3	0.27	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	76	-0	-178	5	0	3	79	2.26	2.26	2.26	2.26	-3.99	175.8	0.30	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	86	-0	-196	5	0	3	62	2.26	2.26	2.26	2.26	-3.10	136.4	0.33	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	95	-0	-214	5	0	2	42	2.26	2.26	2.26	2.26	-2.12	93.4	0.36	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

ASTA NUM. 32 NI 48 NF 16 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 1.8750 1.8750 kg/cm

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq		
1 17.6	0	-0	-395	18	0	2	42	2.26	2.26	2.26	2.26	-2.12	93.5	0.67	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	8	-0	-411	18	0	1	9	2.26	2.26	2.26	2.26	-0.44	19.4	0.69	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	17	-0	-426	18	0	-1	-26	2.26	2.26	2.26	2.26	-1.31	57.5	0.72	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	25	-0	-442	18	0	-2	-62	2.26	2.26	2.26	2.26	-3.12	137.4	0.74	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	33	-0	-458	18	0	-4	-99	2.26	2.26	2.26	2.26	-5.00	220.0	0.77	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	42	-0	-473	18	0	-5	-138	2.26	2.26	2.26	2.26	-6.94	305.6	0.80	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	50	-0	-489	18	0	-7	-178	2.26	2.26	2.26	2.26	-8.95	394.0	0.82	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	58	-0	-504	18	0	-8	-219	2.26	2.26	2.26	2.26	-11.02	485.3	0.85	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	66	-0	-520	18	0	-10	-262	2.26	2.26	2.26	2.26	-13.16	579.4	0.88	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	75	-0	-535	18	0	-11	-305	2.26	2.26	2.26	2.26	-15.36	676.4	0.90	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	83	-0	-551	18	0	-13	-268	2.26	2.26	2.26	2.26	-13.47	593.2	0.93	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										



ASTA NUM. 34 NI 47 NF 46 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 1.8750 1.8750 kg/cm

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq		
1 17.6	0	-0	545	-13	0	-9	-302	2.26	2.26	2.26	2.26	-15.20	669.2	0.92	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	10	-0	527	-13	0	-8	-251	2.26	2.26	2.26	2.26	-12.64	556.5	0.89	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	19	-0	509	-13	0	-7	-202	2.26	2.26	2.26	2.26	-10.17	447.6	0.86	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	29	-0	491	-13	0	-5	-155	2.26	2.26	2.26	2.26	-7.78	342.4	0.83	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	38	-0	473	-13	0	-4	-109	2.26	2.26	2.26	2.26	-5.47	240.9	0.80	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	48	-0	455	-13	0	-3	-65	2.26	2.26	2.26	2.26	-3.25	143.2	0.77	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	57	-0	438	-13	0	-2	-22	2.26	2.26	2.26	2.26	-1.12	49.3	0.74	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	67	-0	420	-13	0	-1	18	2.26	2.26	2.26	2.26	-0.93	41.0	0.71	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	76	-0	402	-13	0	1	58	2.26	2.26	2.26	2.26	-2.89	127.4	0.68	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	86	-0	384	-13	0	2	95	2.26	2.26	2.26	2.26	-4.77	210.1	0.65	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										
1 17.6	95	-0	366	-13	0	3	131	2.26	2.26	2.26	2.26	-6.57	289.1	0.62	0.00
apost= --		aant= --	ainf= --	asup= --	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )										

ASTA NUM. 35 NI 46 NF 45 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 1.8750 1.8750 kg/cm

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq		
1 17.6	0	-0	184	-3	0	3	130	2.26	2.26	2.26	2.26	-6.56	288.9	0.31	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6	( e armatura base = 4 X 1.13 )						
1 17.6	10	-0	166	-3	0	4	147	2.26	2.26	2.26	2.26	-7.40	325.8	0.28	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6	( e armatura base = 4 X 1.13 )						
1 17.6	19	-0	149	-3	0	4	162	2.26	2.26	2.26	2.26	-8.15	359.0	0.25	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6	( e armatura base = 4 X 1.13 )						
1 17.6	29	-0	131	-3	0	4	175	2.26	2.26	2.26	2.26	-8.82	388.4	0.22	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6	( e armatura base = 4 X 1.13 )						
1 17.6	38	-0	113	-3	0	5	187	2.26	2.26	2.26	2.26	-9.40	414.0	0.19	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6	( e armatura base = 4 X 1.13 )						
1 17.6	48	-0	95	-3	0	5	197	2.26	2.26	2.26	2.26	-9.90	436.0	0.16	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6	( e armatura base = 4 X 1.13 )						
1 17.6	57	-0	77	-3	0	5	205	2.26	2.26	2.26	2.26	-10.32	454.1	0.13	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6	( e armatura base = 4 X 1.13 )						
1 17.6	67	-0	60	-3	0	6	212	2.26	2.26	2.26	2.26	-10.64	468.6	0.10	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6	( e armatura base = 4 X 1.13 )						
1 17.6	76	-0	42	-3	0	6	216	2.26	2.26	2.26	2.26	-10.89	479.2	0.07	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6	( e armatura base = 4 X 1.13 )						
1 17.6	86	-0	24	-3	0	6	219	2.26	2.26	2.26	2.26	-11.04	486.2	0.04	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6	( e armatura base = 4 X 1.13 )						
1 17.6	95	-0	6	-3	0	7	221	2.26	2.26	2.26	2.26	-11.12	489.3	0.01	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6	( e armatura base = 4 X 1.13 )						

ASTA NUM. 36 NI 45 NF 44 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq	cm	cm
1 17.6	0	-0	-176	8	0	6	221	2.26	2.26	2.26	2.26	-11.12	489.3	0.30	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	10	-0	-194	8	0	6	203	2.26	2.26	2.26	2.26	-10.23	450.5	0.33	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	19	-0	-211	8	0	5	184	2.26	2.26	2.26	2.26	-9.26	407.9	0.36	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	29	-0	-229	8	0	4	163	2.26	2.26	2.26	2.26	-8.21	361.5	0.39	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	38	-0	-247	8	0	4	141	2.26	2.26	2.26	2.26	-7.07	311.4	0.42	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	48	-0	-265	8	0	3	116	2.26	2.26	2.26	2.26	-5.85	257.5	0.45	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	57	-0	-283	8	0	2	90	2.26	2.26	2.26	2.26	-4.54	199.9	0.48	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	67	-0	-300	8	0	1	63	2.26	2.26	2.26	2.26	-3.15	138.6	0.51	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	76	-0	-318	8	0	1	33	2.26	2.26	2.26	2.26	-1.67	73.5	0.54	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	86	-0	-336	8	0	0	2	2.26	2.26	2.26	2.26	-0.10	4.6	0.57	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1 17.6	95	-0	-354	8	0	-1	-31	2.26	2.26	2.26	2.26	-1.54	68.0	0.60	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

ASTA NUM. 37 NI 44 NF 10 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
 qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq	cm	cm
1	0	-0	-535	28	0	-1	-31	2.26	2.26	2.26	2.26	-1.54	67.9	0.90	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	6	-0	-546	28	0	-2	-62	2.26	2.26	2.26	2.26	-3.12	137.4	0.92	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	12	-0	-557	28	0	-4	-94	2.26	2.26	2.26	2.26	-4.73	208.2	0.94	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	17	-0	-568	28	0	-6	-127	2.26	2.26	2.26	2.26	-6.37	280.4	0.96	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	23	-0	-578	28	0	-7	-160	2.26	2.26	2.26	2.26	-8.04	354.1	0.97	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	29	-0	-589	28	0	-9	-194	2.26	2.26	2.26	2.26	-9.75	429.1	0.99	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	35	-0	-600	28	0	-11	-228	2.26	2.26	2.26	2.26	-11.48	505.5	1.01	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	41	-0	-611	28	0	-12	-263	2.26	2.26	2.26	2.26	-13.25	583.3	1.03	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	46	-0	-622	28	0	-14	-299	2.26	2.26	2.26	2.26	-15.05	662.6	1.05	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	52	-0	-633	28	0	-16	-335	2.26	2.26	2.26	2.26	-16.88	743.2	1.07	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	58	-0	-644	28	0	-17	-276	2.26	2.26	2.26	2.26	-13.88	611.3	1.08	0.00
17.6															
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

**ASTA NUM. 38** NI 10 NF 43 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO															
cm	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq		
1	0	-0	529	-29	0	-18	-283	2.26	2.26	2.26	2.26	-14.24	626.7	0.89	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	19	-0	494	-29	0	-12	-268	2.26	2.26	2.26	2.26	-13.47	592.9	0.83	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	37	-0	459	-29	0	-7	-180	2.26	2.26	2.26	2.26	-9.03	397.6	0.77	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

**ASTA NUM. 39** NI 43 NF 21 SEZ. Rp B= 30.0 H= 25.0 (trave)

categoria: p.p. y qy tot.  
qy medio: 1.8750 1.8750 kg/cm

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO															
cm	cm	kg	kg	kg	kg*m	kg*m	kg*m	cmq	cmq	cmq	cmq	kg/cmq	kg/cmq		
1	0	-0	278	-7	0	-7	-180	2.26	2.26	2.26	2.26	-9.04	397.9	0.47	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	10	-0	260	-7	0	-6	-154	2.26	2.26	2.26	2.26	-7.75	341.2	0.44	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	19	-0	243	-7	0	-5	-130	2.26	2.26	2.26	2.26	-6.55	288.3	0.41	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	29	-0	225	-7	0	-5	-108	2.26	2.26	2.26	2.26	-5.43	239.1	0.38	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	38	-0	207	-7	0	-4	-87	2.26	2.26	2.26	2.26	-4.40	193.7	0.35	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	48	-0	189	-7	0	-3	-69	2.26	2.26	2.26	2.26	-3.45	152.0	0.32	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	57	-0	171	-7	0	-3	-51	2.26	2.26	2.26	2.26	-2.59	114.1	0.29	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							
1	67	-0	154	-7	0	-2	-36	2.26	2.26	2.26	2.26	-1.81	79.9	0.26	0.00
17.6															
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )							

```

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )
  1  76      -0   136      -7       0       -1      -22    2.26  2.26  2.26  2.26  -1.12  49.4  0.23  0.00
17.6

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )
  1  86      -0   118      -7       0       -1      -10    2.26  2.26  2.26  2.26  -0.52  22.8  0.20  0.00
17.6

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )
  1  95      -0   100      -7       0       -0       0     2.26  2.26  2.26  2.26  -0.01   0.2  0.17  0.00
17.6

apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 17.6 ( e armatura base = 4 X 1.13 )

```

Lavoro: **Corpo C** Intestazione lavoro: **CORPO c**  
 Elemento: **PILASTRO** Gruppo: **1** Tabella: **Tabella pilastri**  
 Descrizione: **Pilastri**  
 Spunt. I **20.0** cm Spunt. J **20.0** cm  
 Rck: **300.00** kg/cm<sup>2</sup> Tensione amm. acciaio: **2400.0** kg/cm<sup>2</sup> Coeff. di omogeneizzazione: **15** Copriferro di  
 calcolo: **3.0** cm Copriferro di disegno: **3.0** cm  
 Diametro staffe: **8** mm Numero braccia: **2**  
 ρ min.: **1.000** % Passo min. armatura longitudinale: **50.0** cm

**ASTA NUM. 1** NI 7 NF 12 SEZ. Rp B= 25.0 H= 30.0 (pilastro)

**PIL. NUM. 7**

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	--	-----			-----			-----				-----			
cm	cm	kg			kg*m			cmq				kg/cmq			
1	0	-1603	47	13	0	42	-140	2.26	2.26	2.26	2.26	-7.12	-89.2	0.08	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )							
1	157	-1310	47	13	0	23	-71	2.26	2.26	2.26	2.26	-3.91	-51.3	0.08	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )							
1	313	-1017	47	13	0	1	0	2.26	2.26	2.26	2.26	-1.28	-19.1	0.08	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )							

**ASTA NUM. 2** NI 1 NF 15 SEZ. Rp B= 25.0 H= 30.0 (pilastro)

**PIL. NUM. 1**

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	--	-----			-----			-----				-----			
cm	cm	kg			kg*m			cmq				kg/cmq			
1	0	-1577	47	-30	0	-45	-140	2.26	2.26	2.26	2.26	-7.31	-91.1	0.08	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )							
1	157	-1284	47	-30	0	-2	-72	2.26	2.26	2.26	2.26	-3.26	-43.8	0.08	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )							
1	313	-990	47	-30	0	41	0	2.26	2.26	2.26	2.26	-2.35	-31.2	0.08	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )							

**ASTA NUM. 3** NI 5 NF 17 SEZ. Rp B= 25.0 H= 30.0 (pilastro)

**PIL. NUM. 5**

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	--	-----			-----			-----				-----			
cm	cm	kg			kg*m			cmq				kg/cmq			
1	0	-2561	9	19	0	20	-31	2.26	2.26	2.26	2.26	-4.39	-61.7	0.03	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )							

1 175 -2234 9 19 0 -11 -16 2.26 2.26 2.26 2.26 -3.41 -48.9 0.03 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
 1 349 -1907 9 19 0 -41 0 2.26 2.26 2.26 2.26 -3.48 -48.1 0.03 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
**ASTA NUM. 4** NI 3 NF 13 SEZ. Rp B= 25.0 H= 30.0 (pilastro)  
**PIL. NUM. 3**  
 armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato

-----  
 NC x Fx Fy Fz Mx My Mz APOST AANT AINF ASUP Sc Sf taglio tors  
 PASSO  
 -----  
 -----  
 cm cm kg kg\*m cmq kg/cmq  
 -----  
 -----  
 1 0 -1730 -58 -27 0 -39 174 2.26 2.26 2.26 2.26 -8.41 -104.1 0.10 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
 1 157 -1437 -58 -27 0 1 89 2.26 2.26 2.26 2.26 -3.81 -50.9 0.10 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
 1 313 -1143 -58 -27 0 40 0 2.26 2.26 2.26 2.26 -2.52 -33.8 0.10 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
**ASTA NUM. 5** NI 8 NF 25 SEZ. Rp B= 25.0 H= 30.0 (pilastro)  
**PIL. NUM. 8**  
 armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato

-----  
 NC x Fx Fy Fz Mx My Mz APOST AANT AINF ASUP Sc Sf taglio tors  
 PASSO  
 -----  
 -----  
 cm cm kg kg\*m cmq kg/cmq  
 -----  
 -----  
 1 0 -2421 11 1 0 23 -37 2.26 2.26 2.26 2.26 -4.44 -61.8 0.02 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
 1 175 -2094 11 1 0 21 -19 2.26 2.26 2.26 2.26 -3.58 -50.3 0.02 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
 1 349 -1767 11 1 0 19 0 2.26 2.26 2.26 2.26 -2.70 -38.5 0.02 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
**ASTA NUM. 6** NI 2 NF 14 SEZ. Rp B= 25.0 H= 30.0 (pilastro)  
**PIL. NUM. 2**  
 armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato

-----  
 NC x Fx Fy Fz Mx My Mz APOST AANT AINF ASUP Sc Sf taglio tors  
 PASSO  
 -----  
 -----  
 cm cm kg kg\*m cmq kg/cmq  
 -----  
 -----  
 1 0 -2381 11 -20 0 -29 -37 2.26 2.26 2.26 2.26 -4.57 -63.1 0.03 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )



1 175 -2054 11 -20 0 3 -19 2.26 2.26 2.26 2.26 -3.02 -43.7 0.03 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
 1 349 -1727 11 -20 0 35 0 2.26 2.26 2.26 2.26 -3.08 -42.7 0.03 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
**ASTA NUM. 7** NI 6 NF 18 SEZ. Rp B= 25.0 H= 30.0 (pilastro)  
**PIL. NUM. 4**  
 armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato

-----  
 NC x Fx Fy Fz Mx My Mz APOST AANT AINF ASUP Sc Sf taglio tors  
 PASSO  
 -----  
 cm cm kg kg\*m cmq kg/cmq  
 -----  
 1 0 -1733 36 16 0 15 -114 2.26 2.26 2.26 2.26 -5.23 -68.7 0.06 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
 1 157 -1440 36 16 0 -9 -60 2.26 2.26 2.26 2.26 -3.38 -45.7 0.06 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
 1 313 -1146 36 16 0 -33 0 2.26 2.26 2.26 2.26 -2.32 -31.5 0.06 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
**ASTA NUM. 8** NI 4 NF 16 SEZ. Rp B= 25.0 H= 30.0 (pilastro)  
**PIL. NUM. 6**  
 armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato

-----  
 NC x Fx Fy Fz Mx My Mz APOST AANT AINF ASUP Sc Sf taglio tors  
 PASSO  
 -----  
 cm cm kg kg\*m cmq kg/cmq  
 -----  
 1 0 -1886 -45 19 0 18 141 2.26 2.26 2.26 2.26 -6.29 -81.7 0.07 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
 1 157 -1593 -45 19 0 -10 75 2.26 2.26 2.26 2.26 -3.93 -52.9 0.07 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
 1 313 -1299 -45 19 0 -38 0 2.26 2.26 2.26 2.26 -2.65 -35.9 0.07 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )  
**ASTA NUM. 9** NI 9 NF 10 SEZ. Rp B= 25.0 H= 30.0 (pilastro)  
**PIL. NUM. 9**  
 armatura base = 4 X 1.13 per le armature aggiuntive consultare il tabulato

-----  
 NC x Fx Fy Fz Mx My Mz APOST AANT AINF ASUP Sc Sf taglio tors  
 PASSO  
 -----  
 cm cm kg kg\*m cmq kg/cmq  
 -----  
 1 0 -1759 -57 8 0 34 172 2.26 2.26 2.26 2.26 -8.12 -101.1 0.09 0.00  
 --  
 apost= -- aant= -- ainf= -- asup= -- staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )

```

  1 157 -1466 -57 8 0 23 88 2.26 2.26 2.26 2.26 -4.51 -59.0 0.09 0.00
--
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )
  1 313 -1172 -57 8 0 9 0 2.26 2.26 2.26 2.26 -1.70 -24.5 0.09 0.00
--
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 18.0 ( e armatura base = 4 X 1.13 )

```

Lavoro: **Corpo C** Intestazione lavoro: **CORPO c**  
 Elemento: **TRAVE DI FONDAZIONE** Gruppo: **1** Tabella: **Tabella fondazioni**  
 Descrizione: **Trave continua**  
 Spunt. I **30.0** cm Spunt. J **30.0** cm  
 Rck: **300.00** kg/cm<sup>2</sup> Tensione amm. acciaio: **2400.0** kg/cm<sup>2</sup> Coeff. di omogeneizzazione: **15** Copriferro: **3.0** cm  
 Diametro staffe: **8** mm Numero braccia: **2**  
 Passo min. armatura longitudinale: **50.0** cm

**ASTA NUM. 1** NI 1 NF 6 SEZ. Tr B= 80.0 H= 50.0 b= 35.0 h= 30.0 (trave di fondazione)

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO															
cm	cm	kg			kg*m			cmq				kg/cmq			
1	0	-0	-139	0	0	0	52	--	--	2.26	2.26	-0.73	52.3	0.09	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe=	2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )						
1	33	-0	-207	0	0	0	6	--	--	2.26	2.26	-0.08	5.9	0.14	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe=	2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )						
1	65	-0	-275	0	0	0	-238	--	--	2.26	2.26	-2.16	233.9	0.19	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe=	2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )						
1	98	-0	102	0	0	0	-205	--	--	2.26	2.26	-1.86	201.3	0.07	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe=	2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )						
1	130	-0	465	0	0	0	-349	--	--	2.26	2.26	-3.16	342.4	0.31	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe=	2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )						
1	163	-0	396	0	0	0	-220	--	--	2.26	2.26	-1.99	215.9	0.27	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe=	2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )						
1	195	-0	754	0	0	0	-268	--	--	2.26	2.26	-2.43	263.2	0.51	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe=	2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )						
1	228	-0	686	0	0	0	-45	--	--	2.26	2.26	-0.41	44.4	0.46	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe=	2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )						
1	260	-0	1046	0	0	0	178	--	--	2.26	2.26	-2.46	177.5	0.71	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe=	2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )						
1	293	-0	978	0	0	0	318	--	--	2.26	2.26	-4.41	318.1	0.66	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe=	2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )						
1	325	-0	910	0	0	0	582	--	--	2.26	2.26	-8.06	580.9	0.61	0.00
apost=	--	aant=	--	ainf=	--	asup=	--	staffe=	2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )						

**ASTA NUM. 2** NI 6 NF 7 SEZ. Tr B= 80.0 H= 50.0 b= 35.0 h= 30.0 (trave di fondazione)

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg			kg*m			cmq			kg/cmq				
1	0	-0	-348	0	0	0	390	--	--	2.26	2.26	-5.41	389.6	0.24	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	36	-0	-422	0	0	0	292	--	--	2.26	2.26	-4.05	292.0	0.29	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	71	-0	-497	0	0	0	142	--	--	2.26	2.26	-1.97	142.2	0.34	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	107	-0	-113	0	0	0	-109	--	--	2.26	2.26	-0.99	107.0	0.08	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	142	-0	261	0	0	0	-360	--	--	2.26	2.26	-3.27	353.8	0.18	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	178	-0	186	0	0	0	-294	--	--	2.26	2.26	-2.67	288.9	0.13	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	213	-0	563	0	0	0	-439	--	--	2.26	2.26	-3.98	431.3	0.38	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	249	-0	489	0	0	0	-266	--	--	2.26	2.26	-2.41	260.9	0.33	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	284	-0	885	0	0	0	-303	--	--	2.26	2.26	-2.75	297.9	0.60	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	320	-0	811	0	0	0	-16	--	--	2.26	2.26	-0.14	15.4	0.55	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	355	-0	736	0	0	0	251	--	--	2.26	2.26	-3.48	250.6	0.50	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							

**ASTA NUM. 3** NI 2 NF 5 SEZ. Tr B= 80.0 H= 50.0 b= 35.0 h= 30.0 (trave di fondazione)

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg			kg*m			cmq			kg/cmq				
1	0	-0	-286	0	0	0	-3	--	--	2.26	2.26	-0.03	3.2	0.19	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							

1	33	-0	-329	0	0	0	-110	--	--	2.26	2.26	-1.00	108.1	0.22	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	65	-0	-372	0	0	0	-329	--	--	2.26	2.26	-2.98	323.1	0.25	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	98	-0	57	0	0	0	-311	--	--	2.26	2.26	-2.82	305.0	0.04	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	130	-0	481	0	0	0	-404	--	--	2.26	2.26	-3.67	397.0	0.33	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	163	-0	438	0	0	0	-262	--	--	2.26	2.26	-2.38	257.2	0.30	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	195	-0	871	0	0	0	-232	--	--	2.26	2.26	-2.10	227.4	0.59	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	228	-0	827	0	0	0	37	--	--	2.26	2.26	-0.52	37.3	0.56	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	260	-0	1274	0	0	0	306	--	--	2.26	2.26	-4.24	305.9	0.86	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	293	-0	1231	0	0	0	594	--	--	2.26	2.26	-8.23	593.6	0.83	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	325	-0	1188	0	0	0	756	--	--	2.26	2.26	-10.47	754.9	0.80	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															

**ASTA NUM. 4**      NI 5      NF 8      SEZ. Tr B= 80.0 H= 50.0 b= 35.0 h= 30.0 (trave di fondazione)

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO															
	cm		kg			kg*m				cmq			kg/cmq		
1	0	-0	-835	0	0	0	735	--	--	2.26	2.26	-10.19	734.5	0.56	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	36	-0	-882	0	0	0	547	--	--	2.26	2.26	-7.59	546.8	0.60	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	71	-0	-930	0	0	0	234	--	--	2.26	2.26	-3.24	233.9	0.63	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	107	-0	-452	0	0	0	-60	--	--	2.26	2.26	-0.54	58.7	0.31	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	142	-0	-499	0	0	0	-354	--	--	2.26	2.26	-3.21	347.5	0.34	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															

1	178	-0	-45	0	0	0	-370	--	--	2.26	2.26	-3.35	363.0	0.03	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	213	-0	399	0	0	0	-519	--	--	2.26	2.26	-4.71	509.7	0.27	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	249	-0	352	0	0	0	-394	--	--	2.26	2.26	-3.58	387.1	0.24	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	284	-0	803	0	0	0	-403	--	--	2.26	2.26	-3.66	395.8	0.54	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	320	-0	756	0	0	0	-135	--	--	2.26	2.26	-1.22	132.3	0.51	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	355	-0	709	0	0	0	134	--	--	2.26	2.26	-1.85	133.5	0.48	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															

**ASTA NUM. 5**    NI 3    NF 4    SEZ. Tr B= 80.0 H= 50.0 b= 35.0 h= 30.0 (trave di fondazione)

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg			kg*m			cmq			kg/cmq				
1	0	-0	-121	0	0	0	33	--	--	2.26	2.26	-0.46	33.2	0.08	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	33	-0	-189	0	0	0	-10	--	--	2.26	2.26	-0.09	9.9	0.13	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	65	-0	-257	0	0	0	-249	--	--	2.26	2.26	-2.25	244.1	0.17	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	98	-0	126	0	0	0	-208	--	--	2.26	2.26	-1.88	203.9	0.09	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	130	-0	499	0	0	0	-344	--	--	2.26	2.26	-3.12	337.4	0.34	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	163	-0	431	0	0	0	-204	--	--	2.26	2.26	-1.85	199.9	0.29	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	195	-0	803	0	0	0	-241	--	--	2.26	2.26	-2.18	236.2	0.54	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	228	-0	735	0	0	0	-2	--	--	2.26	2.26	-0.02	1.6	0.50	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	260	-0	1113	0	0	0	237	--	--	2.26	2.26	-3.29	236.9	0.75	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															

1	293	-0	1045	0	0	0	400	--	--	2.26	2.26	-5.54	399.3	0.71	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	325	-0	977	0	0	0	675	--	--	2.26	2.26	-9.35	673.8	0.66	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
<b>ASTA NUM. 6</b> NI 4      NF 9      SEZ. Tr B= 80.0 H= 50.0 b= 35.0 h= 30.0 (trave di fondazione)															
armatura base = 4 X 1.13      per le armature aggiuntive consultare il tabulato															
-----															
NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO															
	cm		kg			kg*m				cmq			kg/cmq		
-----															
1	0	-0	-414	0	0	0	480	--	--	2.26	2.26	-6.66	479.8	0.28	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	36	-0	-488	0	0	0	369	--	--	2.26	2.26	-5.12	368.8	0.33	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	71	-0	-562	0	0	0	196	--	--	2.26	2.26	-2.72	195.8	0.38	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	107	-0	-159	0	0	0	-72	--	--	2.26	2.26	-0.65	70.2	0.11	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	142	-0	-233	0	0	0	-339	--	--	2.26	2.26	-3.08	333.0	0.16	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	178	-0	157	0	0	0	-283	--	--	2.26	2.26	-2.57	278.4	0.11	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	213	-0	545	0	0	0	-439	--	--	2.26	2.26	-3.98	431.1	0.37	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	249	-0	471	0	0	0	-272	--	--	2.26	2.26	-2.47	267.0	0.32	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	284	-0	874	0	0	0	-316	--	--	2.26	2.26	-2.87	310.3	0.59	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	320	-0	800	0	0	0	-32	--	--	2.26	2.26	-0.29	31.6	0.54	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	355	-0	725	0	0	0	232	--	--	2.26	2.26	-3.22	231.9	0.49	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															

**ASTA NUM. 7** NI 1 NF 2 SEZ. Tr B= 50.0 H= 50.0 b= 25.0 h= 30.0 (trave di fondazione)

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg			kg*m			cmq			kg/cmq				
1	0	-0	-361	0	0	0	153	--	--	2.26	2.26	-2.51	154.0	0.34	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	31	-0	-430	0	0	0	73	--	--	2.26	2.26	-1.20	73.5	0.41	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	62	-0	-499	0	0	0	-233	--	--	2.26	2.26	-2.69	230.6	0.47	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	94	-0	-34	0	0	0	-243	--	--	2.26	2.26	-2.81	241.1	0.03	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	125	-0	381	0	0	0	-425	--	--	2.26	2.26	-4.91	421.7	0.36	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	156	-0	312	0	0	0	-328	--	--	2.26	2.26	-3.79	325.1	0.30	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	187	-0	693	0	0	0	-402	--	--	2.26	2.26	-4.64	398.6	0.65	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	218	-0	624	0	0	0	-207	--	--	2.26	2.26	-2.40	205.6	0.59	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	250	-0	985	0	0	0	-184	--	--	2.26	2.26	-2.13	182.8	0.93	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	281	-0	916	0	0	0	102	--	--	2.26	2.26	-1.67	102.2	0.87	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							
1	312	-0	848	0	0	0	343	--	--	2.26	2.26	-5.63	345.0	0.80	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							

**ASTA NUM. 8** NI 2 NF 3 SEZ. Tr B= 50.0 H= 50.0 b= 25.0 h= 30.0 (trave di fondazione)

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

NC PASSO	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
cm	cm	kg			kg*m			cmq			kg/cmq				
1	0	-0	-254	0	0	0	233	--	--	2.26	2.26	-3.83	234.5	0.24	0.00
apost= --		aant= --		ainf= --		asup= --		staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )							



1	42	-0	-345	0	0	0	127	--	--	2.26	2.26	-2.09	128.2	0.33	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	83	-0	-437	0	0	0	-321	--	--	2.26	2.26	-3.71	318.5	0.41	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	125	-0	-9	0	0	0	-325	--	--	2.26	2.26	-3.75	322.0	0.01	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	166	-0	410	0	0	0	-634	--	--	2.26	2.26	-7.32	627.9	0.39	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	208	-0	318	0	0	0	-501	--	--	2.26	2.26	-5.79	496.8	0.30	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	250	-0	781	0	0	0	-674	--	--	2.26	2.26	-7.78	668.1	0.74	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	291	-0	689	0	0	0	-387	--	--	2.26	2.26	-4.47	383.9	0.65	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	333	-0	1255	0	0	0	-406	--	--	2.26	2.26	-4.68	402.1	1.19	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	374	-0	1163	0	0	0	78	--	--	2.26	2.26	-1.29	78.7	1.10	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	416	-0	1072	0	0	0	511	--	--	2.26	2.26	-8.40	514.7	1.01	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															

**ASTA NUM. 9**      NI 7      NF 8      SEZ. Tr B= 50.0 H= 50.0 b= 25.0 h= 30.0 (trave di fondazione)

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO															
	cm		kg			kg*m				cmq			kg/cmq		
1	0	-0	-347	0	0	0	147	--	--	2.26	2.26	-2.42	148.4	0.33	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	31	-0	-416	0	0	0	70	--	--	2.26	2.26	-1.15	70.2	0.39	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	62	-0	-484	0	0	0	-232	--	--	2.26	2.26	-2.67	229.5	0.46	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	94	-0	-27	0	0	0	-240	--	--	2.26	2.26	-2.77	237.9	0.03	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	125	-0	380	0	0	0	-420	--	--	2.26	2.26	-4.85	416.3	0.36	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															

1	156	-0	311	0	0	0	-323	--	--	2.26	2.26	-3.73	320.0	0.29	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	187	-0	685	0	0	0	-397	--	--	2.26	2.26	-4.59	393.8	0.65	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	218	-0	616	0	0	0	-205	--	--	2.26	2.26	-2.37	203.3	0.58	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	250	-0	970	0	0	0	-185	--	--	2.26	2.26	-2.13	182.9	0.92	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	281	-0	901	0	0	0	97	--	--	2.26	2.26	-1.59	97.4	0.85	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	312	-0	833	0	0	0	336	--	--	2.26	2.26	-5.51	337.7	0.79	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															

**ASTA NUM. 10**    NI 8    NF 9    SEZ. Tr B= 50.0 H= 50.0 b= 25.0 h= 30.0 (trave di fondazione)

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

NC	x	Fx	Fy	Fz	Mx	My	Mz	APOST	AANT	AINF	ASUP	Sc	Sf	taglio	tors
PASSO	cm	kg			kg*m			cmq				kg/cmq			
1	0	-0	-236	0	0	0	223	--	--	2.26	2.26	-3.67	224.7	0.22	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	42	-0	-328	0	0	0	122	--	--	2.26	2.26	-2.01	123.0	0.31	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	83	-0	-420	0	0	0	-319	--	--	2.26	2.26	-3.69	316.4	0.40	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	125	-0	0	0	0	0	-319	--	--	2.26	2.26	-3.69	316.4	0.00	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	166	-0	410	0	0	0	-624	--	--	2.26	2.26	-7.21	618.7	0.39	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	208	-0	319	0	0	0	-492	--	--	2.26	2.26	-5.68	487.4	0.30	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	250	-0	773	0	0	0	-664	--	--	2.26	2.26	-7.67	658.3	0.73	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	291	-0	681	0	0	0	-381	--	--	2.26	2.26	-4.40	377.4	0.64	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															
1	333	-0	1238	0	0	0	-402	--	--	2.26	2.26	-4.64	398.7	1.17	0.00
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )															

```
  1 374  -0  1146    0    0    0    75  --  --  2.26  2.26  -1.23  75.1  1.08  0.00
--
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )
  1 416  -0  1055    0    0    0   503  --  --  2.26  2.26  -8.27  506.5  1.00  0.00
--
apost= --      aant= --      ainf= --      asup= --      staffe= 2 d 8 / 33.0 ( e armatura base = 4 X 1.13 )
```

## 12. COMPUTO MATERIALI E SEZIONI

### ELEMENTO FINITO TRAVE

#### GRUPPO NUMERO: 1 - PILASTRI

Materiale	Cod. Mater.	Sezione	Cod. Sez.	Lughezza	Volume	Peso
Calcestruzzo	1	Rp	3	+2.925e+003	+2.194e+006	+5.484e+003

#### GRUPPO NUMERO: 2 - TRAVI

Materiale	Cod. Mater.	Sezione	Cod. Sez.	Lughezza	Volume	Peso
Calcestruzzo	1	Rp	1	+1.900e+003	+1.425e+006	+3.563e+003
Calcestruzzo	1	Rp	2	+9.500e+002	+8.550e+005	+2.138e+003

#### GRUPPO NUMERO: 3 - ARCARECCI

Materiale	Cod. Mater.	Sezione	Cod. Sez.	Lughezza	Volume	Peso
Legno	2	Rp	6	+8.048e+003	+1.288e+006	+6.438e+002

### ELEMENTO FINITO TRAVE DI FONDAZIONE

#### GRUPPO NUMERO: 1 - TRAVE CONTINUA

Materiale	Cod. Mater.	Sezione	Cod. Sez.	Lughezza	Volume	Peso
Calcestruzzo	1	Tr	4	+2.040e+003	+6.324e+006	+1.581e+004
Calcestruzzo	1	Tr	5	+1.456e+003	+2.912e+006	+7.280e+003

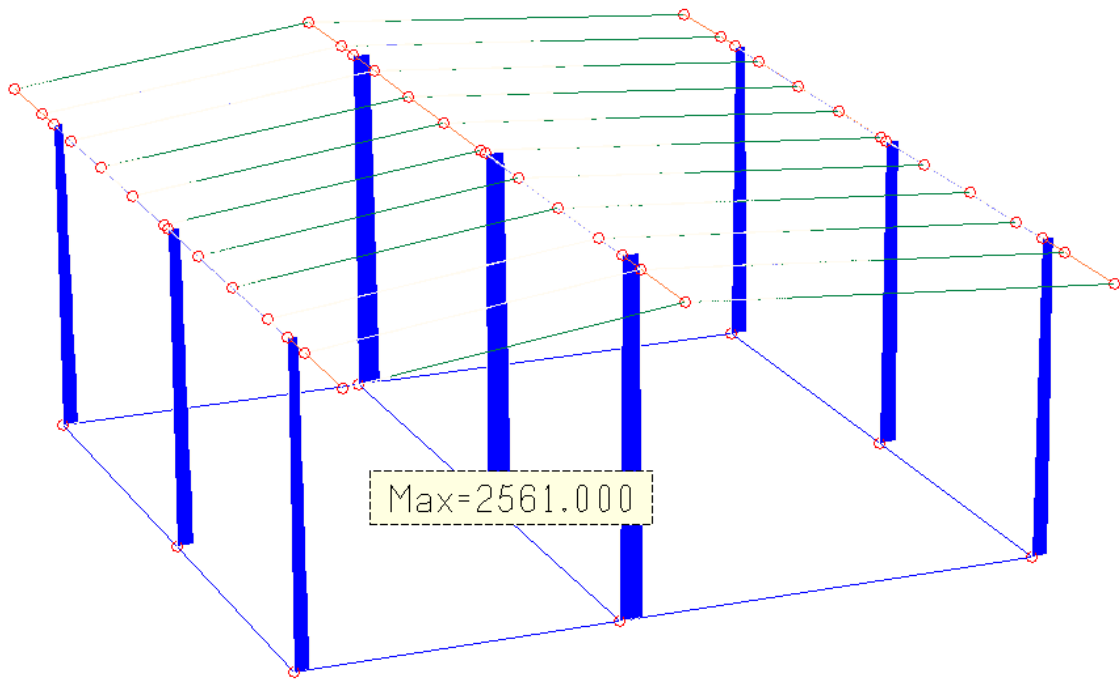
### COMPUTO TOTALE PER MATERIALE

Materiale	Cod. mater.	Volume	Peso
Calcestruzzo	1	+1.371e+007	+3.427e+004
Legno	2	+1.288e+006	+6.438e+002

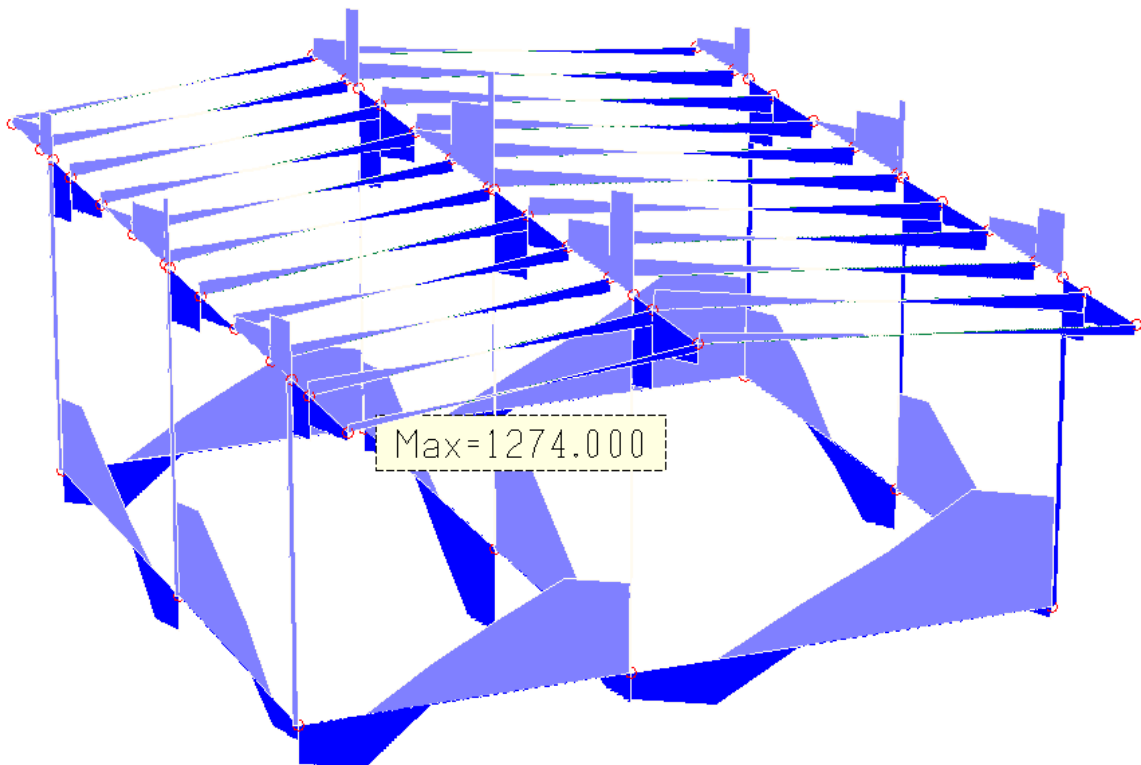
### COMPUTO TOTALE PER SEZIONE

Materiale	Cod. mater.	Sezione	Cod. sez.	Lunghezza	Volume	Peso
Calcestruzzo	1	Rp	1	+1.900e+003	+1.425e+006	+3.563e+003
Calcestruzzo	1	Rp	2	+9.500e+002	+8.550e+005	+2.138e+003
Calcestruzzo	1	Rp	3	+2.925e+003	+2.194e+006	+5.484e+003
Calcestruzzo	1	Tr	4	+2.040e+003	+6.324e+006	+1.581e+004
Calcestruzzo	1	Tr	5	+1.456e+003	+2.912e+006	+7.280e+003
Legno	2	Rp	6	+8.048e+003	+1.288e+006	+6.438e+002

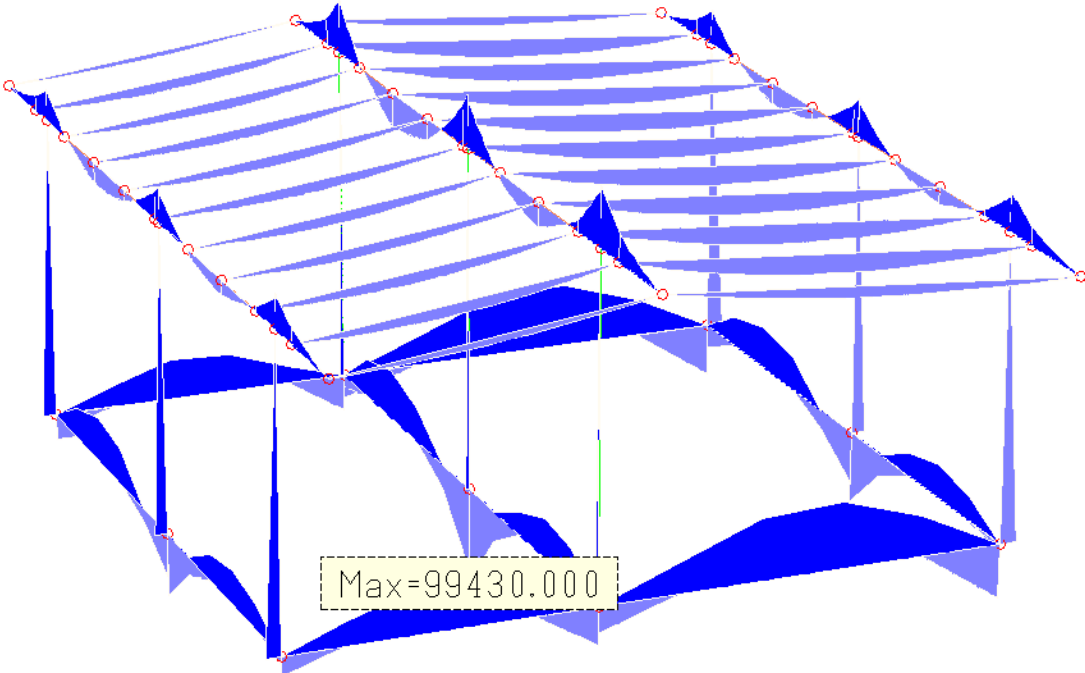
## Azione normale



## Taglio



Momenti



### 13. VALUTAZIONE DEI RISULTATI E GIUDIZIO MOTIVATO SULLA LORO ACCETTABILITÀ

Il programma di calcolo utilizzato ,MasterSap AMV TOP 2009 2.2. prodotto dalla Società AMV Softwar Company con modellazione 3D con N°. Licenza d' uso 33948 , è idoneo a riprodurre nel modello matematico il comportamento della struttura e gli elementi finiti disponibili e utilizzati sono rappresentativi della realtà costruttiva. Le funzioni di controllo disponibili, innanzitutto quelle grafiche, consentono di verificare la riproduzione della realtà costruttiva ed accertare la corrispondenza del modello con la geometria strutturale e con le condizioni di carico ipotizzate. Si evidenzia che il modello viene generato direttamente dal disegno architettonico riproducendone così fedelmente le proporzioni geometriche. In ogni caso sono stati effettuati alcuni controlli dimensionali con gli strumenti software a disposizione dell'utente. Tutte le proprietà di rilevanza strutturale (materiali, sezioni, carichi, sconnessioni, etc.) sono state controllate attraverso le funzioni di indagine specificatamente previste.

Sono state sfruttate le funzioni di autodiagnostica presenti nel software che hanno accertato che non sussistono difetti formali di impostazione.

E' stato accertato che le risultanti delle azioni verticali sono in equilibrio con i carichi applicati.

Sono state controllate le azioni taglianti di piano ed accertata la loro congruenza con quella ricavabile da semplici ed agevoli elaborazioni. Le sollecitazioni prodotte da alcune combinazioni di carico di prova hanno prodotto valori prossimi a quelli ricavabili adottando consolidate formulazioni ricavate della Scienza delle Costruzioni. Anche le deformazioni risultano prossime ai valori attesi. Il dimensionamento e le verifiche di sicurezza hanno determinato risultati che sono in linea con casi di comprovata validità, confortati anche dalla propria esperienza.

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