

ISTITUTO AUTONOMO PER LE CASE POPOLARI
DELLA PROVINCIA DI BRINDISI
GESTIONE CASE PER LAVORATORI

-----000(0)000-----

LAVORI DI COSTRUZIONE DI CASE PER LAVORATORI IN BRINDISI
- QUARTIERE S. ELIA - P.I. N° 567 - ALLOGGI N° 82

-----000-----

IMPRESA: CORRADO PIER MARCELLO - O R I A -
IMPORTO a base d'asta £. 456.245.670.=
IMPORTO al netto del ribasso d'asta 7,55%.. £. 421.799.122.=
CONTRATTO: n°5219 del 21.11.1968 - registrato
a Brindisi il 29.11.1968 al numero
2219 - Mod. I^a

=====

PERIZIA SUPPLETIVA

= COMPUTO METRICO E STIMA DEI LAVORI =

=====

BRINDISI, LI 12.11.1969

IL DIRETTORE DEI LAVORI
(Dott. Ing. Giovanni ROMA)

Visto:

IL PRESIDENTE
(Gr. Uff. Com. te U. G. VALLARINO)



PAL. 4CB e 5CB

Scavo di terra

MISURE DEFINITIVE
=====

ELEMENTO 4CB

tratti 1-2 e 3-8

$$2 \times 25,70 \times 1,50 = \text{mq. } 77,10$$

tratto 9-10

$$\frac{7,60 + 7,35}{2} \times 1,50 = " 11,21$$

tratto 11

$$\frac{2,20 + 1,90}{2} \times 1,50 = " 3,07$$

tratto 14

$$\frac{2,40 + 2,10}{2} \times 1,50 = " 3,37$$

tratto 15-16

$$\frac{7,10 + 6,85}{2} \times 1,50 = " 10,46$$

tratto 1-8

$$7,60 \times 1,50 = " 11,40$$

tratto 2-3

$$7,60 \times 1,20 = " 9,12$$

tratto 12

$$7,60 \times 4,40 = " 33,44$$

$$\text{SOMMANO ELEMENTO 4CB} \quad \text{mq. } 154,34$$

$$\text{mq. } 154,34 \times 3,11$$

$$= \text{mc. } 480,00$$

Tratto 5-6 maggiore profondità. =

$$5,80 \times 1,50 \times 0,18 =$$

$$" 1,57$$

ELEMENTO 5CB

$$\text{Sviluppi idem alla Pal. 4CB} = \text{mq. } 154,34$$

$$\text{mq. } 154,34 \times 2,31$$

$$= " 356,53$$

A Riportare

$$\text{mc. } 838,10$$

Riporto

mc. 838,10

tratto 1-2

maggiora profondità

10,60 x 1,23 x 0,91 = " 11,86

SOMMANO: ELEMENTO 4CB e 5CB mc. 849,96

Scavo di terra per formazione
fondazioni muri box.=

ELEMENTO 4CB e 5CB

tratti longitudinali:

2 x 7,50 x 1,00 x 0,60	= mc.	9,00
2 x 5,60 x 0,50 x 0,60	= "	3,36
2 x 1,60 x 0,70 x 0,60	= "	1,34
2 x 6,15 x 0,50 x 0,60	= "	3,69
2 x 2,40 x 0,70 x 0,60	= "	2,02
2 x 16,80 x 0,70 x 0,60	= "	14,11

tratti trasversali:

2 x 2 x 4,10 x 0,70 x 0,60	= "	6,89
2 x 2 x 2,75 x 0,70 x 0,60	= "	4,62
2 x 2 x 1,30 x 0,70 x 0,60	= "	2,18
2 x 4 x 2,95 x 0,50 x 0,60	= "	7,08

SOMMANO mc. 54,29

T O T A L E: ELEMENTO 4CB e 5CB mc. 904,25

PAL. ELEMENTO 6B e 7B

Scavo di materie di qualsiasi
 natura e consistenza ecc. ese
 guito con mezzi meccanici, ecc.

Scavo di fondazione:

ELEMENTO 6B

MISURE DEFINITIVE
 =====

tratto 1-2

$$12,15 \times 1,50 = \text{mq.} \quad 18,22$$

tratto 3-4 e 7-8

$$2 \times 21,13 \times 1,50 = " \quad 63,39$$

tratto 5-6

$$12,15 \times 1,23 = " \quad 14,94$$

tratto 9

$$2,70 \times 1,50 = " \quad 4,05$$

tratto 10

$$4,60 \times 1,50 = " \quad 6,90$$

tratto 12

$$4,65 \times 1,50 = " \quad 6,97$$

tratto 13

$$2,35 \times 1,50 = " \quad 3,52$$

tratto 11

$$7,15 \times 4,20 = " \quad 30,03$$

$$\text{SOMMANO} \quad \text{mq.} \quad 148,02$$

a detrarre il tratto 14:

$$3,65 \times 1,20 = " \quad 4,38$$

RESTANO: ELEMENTO 6B

$$\text{mq.} \quad 143,64$$

$$\text{mq.} \quad 143,64 \times 1,63$$

$$= \text{mc.} \quad 234,13$$

ELEMENTO 7B

tratto 1-2

$$12,15 \times 1,20 = \text{mq.} \quad 14,58$$

tratto 3-8 e 7-6

$$2 \times 21,13 \times 1,50 = " \quad 63,39$$

tratto 4-5

$$12,15 \times 1,50 = " \quad 18,22$$

tratto 9

$$2,35 \times 1,50 = " \quad 3,52$$

tratto 10

$$4,65 \times 1,50 = " \quad 6,97$$

A Riportare

$$\text{mq.} \quad 106,68$$

$$\text{mc.} \quad 234,13$$

= 4 =

Riporto	mq.	106,68	mc.	234,13
<u>tratto 12</u>				
4,60 x 1,50 = "		6,90		
<u>tratto 17</u>				
$\frac{3,78 + 3,85}{2} \times 1,50 = "$		5,72		
<u>tratto 13</u>		2,70 x 1,50 = "		4,05
<u>tratto 16-20</u>				
$\frac{3,50 + 3,58}{2} \times 1,95 = "$		6,90		
<u>tratto 11</u>		7,15 x 4,20 = "		30,03
SOMMANO	mq.	159,28		
a detrarre il tratto 14:				
3,65 x 1,20 = "		4,38		
RESTANO: ELEMENTO 7B	mq.	154,90		

$$\text{mq. } 154,90 \times 1,68 = " \quad 260,23$$

$$\text{tratto 15} \quad 1,25 \times 1,00 \times 0,80 = " \quad 1,00$$

SOMMANO: ELEMENTO 7B mc. 259,23

Scavo di terra per formazione
fondazioni muri box.=
tratti longitudinali:

2 x (3,03 + 3,22) x 0,50 x x 0,70	= mc.	4,37
2 x 2,15 x 0,50 x 0,70	= "	1,50
2 x 2,05 x 0,70 x 0,70	= "	2,01
2 x (2,05+2,15+2,05)x0,70x x 0,70	= "	6,12
2 x 3,55 x 0,50 x 0,70	= "	2,48
2 x 3,35 x 0,70 x 0,70	= "	3,28
2 x (3,35+3,55)x0,50x0,70	= "	4,83
2 x (3,35+3,55)x0,70x0,70	= "	6,76

tratti trasversali

2 x 5,90 x 0,70 x 0,70	= "	5,78
2 x 3,45 x 0,50 x 0,70	= "	2,41
2 x 1,05 x 0,70 x 0,70	= "	1,03
2 x 2,45 x 0,50 x 0,70	= "	1,71
2 x 3,40 x 0,70 x 0,70	= "	3,33
2 x 2,05 x 1,10 x 0,70	= "	3,16

A Riportare mc. 48,77 mc. 259,23

= 5 =

Riporto	mc.	48,77	mc.	259,23
2 x 1,90 x 1,62 x 0,70	= "	4,31		
2 x 3,20 x 2,65 x 0,40	= "	6,78		
2 x 1,62 x 1,00 x 0,70	= "	2,27		
2 x 3,90 x 0,70 x 0,70	= "	3,82		
2 x 1,85 x 0,50 x 0,70	= "	1,29		
2 x 2,95 x 0,50 x 0,70	= "	2,06		
2 x (1,85+0,45+5,10) x 0,70 x 0,70	= "	7,25		

SOMMANO: ELEMENTO 6B - 7B = " 76,55

T O T A L E : ELEMENTO 6B e 7B mc. 335,78

=====

PAL.A - ELEMENTO 8B - 9D - 10C

MISURE DEFINITIVE

Scavo di materie di qualsiasi
 natura e consistenza per cavi
 di fondazione.=

ELEMENTO 8 B

tratto 1-2

11,15 x 1,50 = mq. 16,72

tratto 3

3,93 x 1,60 = " 6,29

tratto 4-5

11,35 x 2,70 = " 30,64

tratto 6

3,37 x 1,60 = " 5,39

tratto 7-8

11,15 x 1,20 = " 13,38

tratto 9-10

18,65 x 1,60 = " 29,84

tratto 11-12

18,65 x 1,80 = " 33,57

tratto 13

3,20 x 0,70 = " 2,24

tratto 14

4,30 x 0,80 = " 3,44

tratto 15-16

2 x 1,60 x 2,65 = " 8,48

SOMMANO: ELEMENTO 8B mq. 149,99

mq. 149,99 x 2,02 = mc. 302,98

ELEMENTO 9D

tratto 1-2 e 7-8

2 x 11,15 x 1,20 = mq. 26,76

a riportare mq. 26,76 mc. 302,98

Riporto	mq.	26,76	mc.	302,98
<u>tratto 3 e 6</u>				
2 x 7,06 x 1,60	= "	22,59		
<u>tratto 4-5</u>				
12,75 x 2,70	= "	34,42		
<u>tratto 9-10</u>				
24,70 x 1,60	= "	39,52		
<u>tratto 11-12</u>				
24,70 x 1,80	= "	44,46		
<u>tratto 13</u>				
3,20 x 0,70	= "	2,24		
<u>tratto 14</u>				
4,30 x 0,80	= "	3,44		
<u>tratto 15 e 16</u>				
2 x 2,65 x 1,60	= "	8,48		
SOMMANO: ELEMENTO 9D	mq.	181,91		
<u>mq. 181,91 x 1,76</u>	=		mc.	320,16

maggiore approfondimento del
tratto 1-2:

$$11,15 \times 1,20 \times (2,02 - 1,76) \quad " \quad 3,48$$

ELEMENTO 10C

tratto 1-2

$$11,15 \times 1,20 = \text{mq.} \quad 13,38$$

tratto 3

$$4,60 \times 1,60 = " \quad 7,36$$

tratto 4-5

$$12,30 \times 2,70 = " \quad 33,21$$

tratto 6

$$5,15 \times 1,60 = " \quad 8,24$$

tratto 7-8

$$11,15 \times 1,50 = " \quad 16,72$$

A Riportare

$$\text{mq.} \quad 78,91$$

$$\text{mc.} \quad 626,62$$

Riporto	mq.	78,91	mc.	626,62
<u>tratto 9-10</u>				
22,05 x 1,60	= "	35,28		
<u>tratto 11-12</u>				
22,05 x 1,80	= "	39,69		
<u>tratto 13</u>				
3,20 x 0,70	= "	2,24		
<u>tratto 14</u>				
4,30 x 0,80	= "	3,44		
<u>tratto 15 e 16</u>				
2 x 2,65 x 1,60	= "	8,48		
SOMMANO: ELEMENTO IOC	mq.	168,04		
mq. 168,04 x 1 ^m ,77	=		mc.	279,43
PAL. "A" - SOMMANO			mc.	906,05

ELEMENTO 8B e IOC

Scavo di terra per formazione
fondazioni muri portico.=

tratti longitudinali:

2 x 2,50 x 0,70 x 0,70=	mc.	2,45
2 x 2 x 2,80 x 0,70 x 0,70=	"	5,49
2 x 2,80 x 0,40 x 0,70=	"	1,57

tratti trasversali:

2 x 3,80 x 0,70 x 0,70=	"	3,72
-------------------------	---	------

SOMMANO: ELEMENTO 8B e IOC	mc.	13,23
----------------------------	-----	-------

ELEMENTO 9D

tratti longitudinali

2 x 5,20 x 0,70 x 0,70=	mc.	5,10
2 x 2 x 3,00 x 0,70 x 0,70=	"	5,88
2 x 2,50 x 0,70 x 0,70=	"	2,45

tratti trasversali:

3,50 x 0,70 x 0,70=	"	1,71
3,40 x 0,70 x 0,70=	"	1,67

A Riportare	mc.	16,81	mc.	919,28
-------------	-----	-------	-----	--------

= 9 =

	mc.	16,81	mc.	919,28
1,80 x 0,70 x 0,70= "		0,88		
Piastra base c.t.				
2,00 x 3,00 x 0,70= "		4,20		
Piastra base autoclave				
1,50 x 1,50 x 0,70= "		<u>1,57</u>		
SOMMANO: ELEMENTO 9D			mc.	<u>23,46</u>
T O T A L E: ELEMENTO 8B - 9D - 10C			mc.	942,74
				=====

PAL. ELEMENTO 2C - 3D

Scavo di terra per cavi di
fondazione.=

MISURE DEFINITIVE

ELEMENTO 2C

tratto 1 - 2

$$6,10 \times 1,50 \times 2,16^m = \text{mc.} \quad 19,76$$

tratto 13 - 14

$$16,10 \times 1,50 \times 2,16^m = " \quad 52,16$$

tratto 18-19

$$17,10 \times 1,50 \times 2,16^m = " \quad 55,40$$

tratto 1-18

$$8,20 \times 1,20 \times 2,16^m = " \quad 21,25$$

tratto 7-10-9-12

$$3,90 \times 4,20 \times 2,16^m = " \quad 35,38$$

tratto 24

$$2,80 \times 1,50 \times 2,16^m = " \quad 9,07$$

tratto 3-4

$$14,90 \times 1,50 \times 2,61^m = " \quad 58,33$$

tratti 15 e 20

$$2 \times 3,40 \times 1,50 \times 2,61^m = " \quad 26,62$$

tratto 5

$$2,30 \times 1,50 \times 3,17^m = " \quad 10,94$$

tratto 16

$$1,50 \times 1,50 \times 3,02^m = " \quad 6,79$$

tratto 17

$$1,10 \times 1,50 \times 3,75^m = " \quad 6,19$$

tratto 21

$$1,85 \times 1,50 \times 3,59^m = " \quad 9,96$$

tratto 22

$$0,95 \times 1,50 \times 4,06 = " \quad 5,78$$

$$\text{A Riportare} \quad \text{mc.} \quad 317,63$$

Riporto	mc.	317,63
<u>tratto 6-23</u>		
11,50 x 1,50 x 4 ^m ,28	= "	73,83
SOMMANO: ELEMENTO 2C	mc.	391,46
 ELEMENTO 3C		
<u>tratto 1-2</u>		
11,50 x 1,50 x 3 ^m ,97	= mc.	68,48
<u>tratto 3-4</u>		
15,40 x 1,80 x 3 ^m ,95	= "	109,49
<u>tratto 10-9 e 18-19</u>		
25,00 x 1,80 x 3 ^m ,95	= "	177,75
<u>tratto 11-12 - 15-16</u>		
3,60 x 4,50 x 3 ^m ,95	= "	63,99
<u>tratto 1 7</u>		
2,50 x 1,80 x 3 ^m ,95	= "	17,77
<u>tratto 5</u>		
5,70 x 1,80 x 4 ^m ,25	= "	43,60
<u>tratto 7-8</u>		
7,20 x 1,80 x 4 ^m ,25	= "	55,08
<u>tratto 6</u>		
3,90 x 1,80 x 4 ^m ,36	= "	30,61
<u>tratto 20-21</u>		
4,30 x 1,80 x 4 ^m ,40	= "	34,06
<u>raggio:</u>		
0,60 x 0,90 x 0,25	= "	0,13
SOMMANO: ELEMENTO 3C	mc.	600,96
 T O T A L E: ELEMENTO 2C - 3D	mc.	992,42
		=====

PAL. 1D

Scavo di terra per cavi di fondazione

MISURE DEFINITIVE

tratti 1-4 e 11-17

2 x 16,15 x 1,50 x 3^m,04 = mc. 238,49

tratto 2-8 - 3-7

4,45 x 3,20 x 3^m,04 = " 43,29

tratto 6-5

6 10,87 x 2,20 x 3^m,04 = " 72,70

tratto 4-17

11,10 x 1,50 x 3^m,04 = " 50,62

tratto 12-14

11,10 x 1,20 x 3^m,18 = " 42,36

tratto 9-10

10,83 x 2,20 x 2^m,98 = " 71,00

tratto 18-19

4,45 x 4,90 x 3^m,09 = " 67,38

SOMMANO

mc.

mc. 585,84

Scavo di terra a mano per
formazione fondazioni mu-
ri box. =

Tratti longitudinali:

2 x 3,20 x 0,60 x 0,70 = mc. 2,69
3 x 2 x 2,26 x 0,50 x 0,70 = " 4,75
2 x 8,18 x 0,60 x 0,70 = " 6,87

tratti trasversali:

3 x 2 x 0,80 x 0,60 x 0,70 = " 2,02
2 x 2,07 x 0,60 x 0,70 = " 1,74
2 x 8,40 x 0,60 x 0,70 = " 7,06
2 x 1,85 x 0,60 x 0,70 = " 1,55

SOMMANO

mc.

" 26,68

T O T A L E: ELEMENTO 1D mc. 612,52

=====

PAL. ELEMENTO 4CB e 5CB

Scavo a sezione obbligata
ampia o di sbancamento, ecc. =

25,70 x 10,60 x 0,47^m = mc. 128,04

T O T A L E mc. 128,04

PAL; ELEMENTO 6B - 7B

Scavo a sezione obbligata
ampia o di sbancamento, ecc.

MISURE DEFINITIVE

ELEMENTO 6B - 7B

$(21,10 + 0,03 + 21,10) \times 12,15 \times 1,01 = \underline{\text{mc. } 518,22}$

S O M M A N O: ELEMENTO 6B e 7B mc. 518,22

PAL.A - ELEMENTO 8B - 9D - 10C

Scavo a sezione obbligata ampia
o di sbancamento, ecc.=

MISURE DEFINITIVE

=====

ELEMENTO "8B"

$$21,38 \times 11,15 \times 0,43^m = \text{mc.} \quad 102,51$$

$$11,35 \times 1,10 \times 0,43^m = \text{"} \quad \underline{5,37}$$

SOMMANO ELEMENTO 8B mc. 107,88

ELEMENTO "9D"

$$27,13 \times 11,15 \times 1,04^m = \text{mc.} \quad 314,60$$

$$12,75 \times 1,10 \times 1,04^m = \text{"} \quad \underline{14,59}$$

SOMMANO ELEMENTO 9D mc. 329,19

ELEMENTO "10C"

$$24,75 \times 11,15 \times 0,96^m = \text{mc.} \quad 264,92$$

$$12,30 \times 1,10 \times 0,96^m = \text{"} \quad \underline{12,99}$$

SOMMANO ELEMENTO 10C mc. 277,91

T O T A L E: ELEMENTO 8B - 9D - 10C mc. 714,98

=====

PAL. ELEMENTO 4CB - 5CB

Calcestruzzo a Kg.200 di
cemento.=

MISURE DEFINITIVE

Calcestruzzo per sottofondo
travi rovesce.=

Sviluppi come alla partita
scavo di terra:

ELEMENTO 4CB = mq. 154,34

a detrarre i tratti 17e18

2x2,15x0,50 = mq. 2,15

2x1,00x0,65 = " 1,30

Sono detrazioni = " 3,45

RESTANO mq. 150,89

mq. 150,89 x 0,21 = mc. 31,69

Tratto 5-6

maggiore profondità:

5,80 x 1,50 x 0,18 = " 1,57

ELEMENTO 5CB

Sviluppi idem alla 4CB = mq. 150,89

mq. 150,89 x 0,17 = " 25,65

Tratto 1-2

maggiore profondità:

10,60 x 1,20 x 0,91 = " 11,57

SOMMANO: ELEMENTO 4CB e 5CB mc. 70,48

=====

PAL. ELEMENTO 6B - 7B
 ~~~~~

Calcestruzzo a Kg. 200 di cemento  
 del tipo 500 per mc. 0,800 di pie-  
 trischetto calcareo all'anello  
 cm. 3 e mc. 0,400 di sabbia silicea,  
 ecc. =

MISURE DEFINITIVE  
 =====

Batolo per sottofondo travi di  
 fondazione. =

Idem superfici della partita  
 dello scavo di terra riportato  
 precedentemente:

ELEMENTO 6B = mq. 143,64  
 ~~~~~

a detrarre i tratti 15 e 16:

2 x 1,30 x 0,40 = " 1,04

RESTANO: ELEMENTO 6B mq. 142,60

mq. 142,60 x 0,11 = mc. 15,69

ELEMENTO 7B = mq. 154,90
 ~~~~~

a detrarre i tratti 18 e 19:

e 20:

18-19: 2 x 1,30 x 0,40 = mq. 1,04

20: 3,50 x 0,45 = " 1,57

SOMMANO detrazioni = mq. 2,61

RESTANO: ELEMENTO 7B .... mq. 152,29

mq. 152,29 x 0,14 = " 21,32

Tratto 15:

1,25 x 1,00 x 0,80 = " 1,00

T O T A L E: ELEMENTO 6B e 7B ..... mc. 38,31

=====

PAL. ELEMENTO 8B - 9D - 10C

Calcestruzzo a Kg. 200 di cemento  
tipo 500 per mc. 0,800 di pietri-  
schetto calcareo all'anello di  
cm. 3 e mc. 0,400 di sabbia silicea

MISURE DEFINITIVE

Batolo per sottofondo travi di  
fondazione.=  
Idem superfici della partita del  
lo scavo di terra a mano riporta  
to precedentemente :

ELEMENTO 8B

mq. 144,55 x 0<sup>m</sup>,11 = mc. 20,24

ELEMENTO 9D

mq. 174,93 x 0<sup>m</sup>,09 = " 15,74

ELEMENTO 10C

mq. 161,55 x 0<sup>m</sup>,09 = " 14,54

maggior altezza nell'Elem.  
9D per il tratto 1-2:

11,15 x 1,20 x (0,14-0,09) " 0,67

ELEMENTO 8B - 9D - 10C - SOMMANO ..... mc. 51,19

=====

PAL. 2C - 3D  
 .....

Calcestruzzo a Kg. 200 di  
 cemento per sottofondo  
 travi di fondazione.=

MISURE DEFINITIVE  
 =====

Calcestruzzo per sottofondo  
 travi rovesce.=

ELEMENTO 2C  
 .....

Tratto 1-2

$$6,10 \times 1,50 \times 0,20 = \text{mc.} \quad 1,83$$

Tratto 13-14

$$16,10 \times 1,50 \times 0,20 = " \quad 4,83$$

Tratto 18-19

$$17,10 \times 1,50 \times 0,20 = " \quad 5,13$$

Tratto 1-18

$$8,20 \times 1,20 \times 0,20 = " \quad 1,97$$

Tratti 7-10 e 9-12

$$2 \times 3,90 \times 1,50 \times 0,20 = " \quad 2,34$$

Tratto 24

$$2,80 \times 1,50 \times 0,20 = " \quad 0,84$$

Tratto 3-4

$$14,90 \times 1,50 \times 0,65 = " \quad 14,53$$

Tratto 15 e 20

$$2 \times 3,40 \times 1,50 \times 0,65 = " \quad 6,63$$

Tratto 5

$$2,30 \times 1,50 \times 1,21 = " \quad 4,17$$

Tratto 16

$$1,50 \times 1,50 \times 1,06 = " \quad 2,38$$

Tratto 17

$$1,10 \times 1,50 \times 1,79 = " \quad 2,95$$

Tratto 21

$$1,85 \times 1,50 \times 1,63 = " \quad 4,52$$

$$\text{A Riportare} \quad \text{mc.} \quad 52,12$$

= 20 =

|                                  |     |       |
|----------------------------------|-----|-------|
| Riparto                          | mc. | 52,12 |
| <u>Tratto 22</u>                 |     |       |
| $0,95 \times 1,50 \times 2,10^m$ | = " | 2,99  |

|                                                    |     |       |
|----------------------------------------------------|-----|-------|
| <u>Tratto 6-23</u>                                 |     |       |
| $11,50 \times \frac{(1,50+1,20)}{2} \times 2,32^m$ | = " | 36,02 |

|                            |     |       |
|----------------------------|-----|-------|
| SOMMANO: ELEMENTO 20 ..... | mc. | 91,13 |
|----------------------------|-----|-------|

ELEMENTO 3D  
\*\*\*\*\*

|                                                    |       |       |
|----------------------------------------------------|-------|-------|
| <u>Tratto 1-2</u>                                  |       |       |
| $11,50 \times \frac{(1,50+1,20)}{2} \times 2,32^m$ | = mc. | 36,02 |

|                                   |     |      |
|-----------------------------------|-----|------|
| <u>tratto 3-4</u>                 |     |      |
| $15,40 \times 1,80 \times 0,24^m$ | = " | 6,65 |

|                                   |     |       |
|-----------------------------------|-----|-------|
| <u>Tratto 10-9 e 18-19</u>        |     |       |
| $25,00 \times 1,80 \times 0,24^m$ | = " | 10,80 |

|                                  |     |      |
|----------------------------------|-----|------|
| <u>Tratto 11-12 e 15-16</u>      |     |      |
| $3,60 \times 1,80 \times 0,24^m$ | = " | 1,55 |

|                                  |     |      |
|----------------------------------|-----|------|
| <u>Tratto 17</u>                 |     |      |
| $2,50 \times 1,80 \times 0,24^m$ | = " | 1,08 |

|                                  |     |      |
|----------------------------------|-----|------|
| <u>Tratto 5</u>                  |     |      |
| $5,70 \times 1,80 \times 0,54^m$ | = " | 5,54 |

|                                  |     |      |
|----------------------------------|-----|------|
| <u>Tratto 7-8</u>                |     |      |
| $7,20 \times 1,80 \times 0,54^m$ | = " | 7,00 |

|                                  |     |      |
|----------------------------------|-----|------|
| <u>Tratto 6</u>                  |     |      |
| $3,90 \times 1,80 \times 0,65^m$ | = " | 4,56 |

|                                  |     |      |
|----------------------------------|-----|------|
| <u>Tratto 21-20</u>              |     |      |
| $4,30 \times 1,80 \times 0,69^m$ | = " | 5,34 |

|                                |     |      |
|--------------------------------|-----|------|
| <u>Saggio</u>                  |     |      |
| $0,60 \times 0,90 \times 0,25$ | = " | 0,13 |

|                            |     |       |
|----------------------------|-----|-------|
| SOMMANO: ELEMENTO 3D ..... | mc. | 78,67 |
|----------------------------|-----|-------|

|                                     |     |        |
|-------------------------------------|-----|--------|
| T O T A L E: ELEMENTO 20 - 3D ..... | mc. | 169,80 |
|                                     |     | =====  |

PAL. B - ELEMENTO 1D  
 .....

Calcestruzzo a Kg.200 di cemento  
 per sottofondo travi di fondazio  
 ne. =

MISURE DEFINITIVE  
 .....

Calcestruzzo per sottofondo tra-  
 vi rovesce:

Tratto 1-4 e 11-17

$$2 \times 26,15 \times 1,50 \times 0,31 = \text{mc.} \quad 24,32$$

Tratto 2-8 e 3-7

$$2 \times 3,20 \times 1,50 \times 0,31 = " \quad 2,98$$

Tratto 6-5

$$10,87 \times 2,20 \times 0,31 = " \quad 7,41$$

Tratto 4-17

$$11,10 \times 1,50 \times 0,31 = " \quad 5,16$$

Tratto 12-14

$$11,10 \times 1,20 \times 0,45 = " \quad 5,99$$

Tratto 9-6

$$4,45 \times 2,20 \times 0,36 = " \quad 3,52$$

Tratto 18-19

$$3,40 \times 1,65 \times 0,36 = " \quad 2,02$$

Tratto 9-10

$$10,83 \times 2,20 \times 0,23 = " \quad 5,48$$

S O M M A N O ..... mc. 56,88

T O T A L E ELEMENTO 1D ..... mc. 56,88

=====

E L E M E N T O 4CB - 5CB

Calcestruzzo a Kg. 300 di cemento del tipo 730 per mc. 0,800 di pietrischetto calcareo allo anello cm. 3 e mc. 0,400 di sabbia silicea, ecc.=

MISURE DEFINITIVE

Calcestruzzo per formazione  
travi rovesce.=

ELEMENTO 4CB

trave: a-b  
corpo trave

$$25,20 \times 0,50 \times 1,30 = \text{mc.} \quad 16,38$$

alette:

$$\frac{(25,20+25,70)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 4,07$$

$$\frac{(10,45+9,45)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 1,59$$

$$\frac{(2,40 + 1,40)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 0,30$$

$$\frac{(10,15+9,15)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 1,54$$

trave: c-d

$$25,20 \times 0,50 \times 1,50 = " \quad 18,90$$

alette:

$$\frac{(11,90+10,90)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 1,82$$

$$\frac{(11,60+10,60)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 1,78$$

$$\frac{(25,20+25,70)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 4,07$$

trave: e-f

corpo trave

$$\frac{(8,00 + 7,90)}{2} \times 0,50 \times 1,30 = " \quad 5,18$$

alette:

$$\frac{(7,90 + 7,35)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 1,22$$

A Riportare mc. 56,85

|                                                                      |         |     |       |
|----------------------------------------------------------------------|---------|-----|-------|
|                                                                      | Riparto | mc. | 56,85 |
| $\frac{(8,00 + 7,60)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | = "     |     | 1,25  |

trave: g

corpo trave

|                                                   |     |      |
|---------------------------------------------------|-----|------|
| $\frac{(2,70 + 2,45)}{2} \times 0,50 \times 1,30$ | = " | 1,71 |
|---------------------------------------------------|-----|------|

alette:

|                                                                      |     |      |
|----------------------------------------------------------------------|-----|------|
| $\frac{(1,70 + 2,20)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | = " | 0,39 |
|----------------------------------------------------------------------|-----|------|

|                                                                      |     |      |
|----------------------------------------------------------------------|-----|------|
| $\frac{(2,55 + 1,90)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | = " | 0,36 |
|----------------------------------------------------------------------|-----|------|

trave: h

corpo trave

|                                                   |     |      |
|---------------------------------------------------|-----|------|
| $\frac{(2,85 + 2,70)}{2} \times 0,50 \times 1,30$ | = " | 1,80 |
|---------------------------------------------------|-----|------|

alette

|                                                                      |     |      |
|----------------------------------------------------------------------|-----|------|
| $\frac{(2,85 + 2,40)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | = " | 0,42 |
|----------------------------------------------------------------------|-----|------|

|                                                                      |     |      |
|----------------------------------------------------------------------|-----|------|
| $\frac{(2,70 + 2,10)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | = " | 0,38 |
|----------------------------------------------------------------------|-----|------|

trave: i-l

corpo trave

|                                                   |     |      |
|---------------------------------------------------|-----|------|
| $\frac{(7,50 + 7,65)}{2} \times 0,50 \times 1,30$ | = " | 4,92 |
|---------------------------------------------------|-----|------|

aletta:

|                                                                      |     |      |
|----------------------------------------------------------------------|-----|------|
| $\frac{(7,50 + 6,85)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | = " | 1,15 |
|----------------------------------------------------------------------|-----|------|

|                                                                      |     |      |
|----------------------------------------------------------------------|-----|------|
| $\frac{(7,65 + 7,10)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | = " | 1,18 |
|----------------------------------------------------------------------|-----|------|

trave: r-s

|                                         |     |      |
|-----------------------------------------|-----|------|
| $2 \times 2,40 \times 0,50 \times 1,30$ | = " | 3,12 |
|-----------------------------------------|-----|------|

alette:

|                                                                      |     |      |
|----------------------------------------------------------------------|-----|------|
| $\frac{(2,40 + 1,40)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | = " | 0,30 |
|----------------------------------------------------------------------|-----|------|

|                                                            |     |      |
|------------------------------------------------------------|-----|------|
| $2 \times 1,00 \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | = " | 0,32 |
|------------------------------------------------------------|-----|------|

trave e-e

corpo trave:

|                                |     |      |
|--------------------------------|-----|------|
| $8,60 \times 0,50 \times 1,30$ | = " | 5,59 |
|--------------------------------|-----|------|

|             |     |       |
|-------------|-----|-------|
| A Riportare | mc. | 79,74 |
|-------------|-----|-------|

= 24 =

Riporto mc. 79,74

alette:

$$\frac{(9,60 + 10,60)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " 1,62$$

$$\frac{(4,50 + 3,50)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " 0,64$$

$$\frac{(3,60 + 2,60)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " 0,50$$

trave: m-n e o-p

$$2 \times 5,60 \times 0,50 \times 1,30 = " 7,28$$

alette:

$$2 \times \frac{(2,90 + 1,90)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " 0,77$$

$$2 \times \frac{(2,20 + 2,00)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " 0,67$$

$$2 \times \frac{(4,45 + 3,45)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " 1,26$$

$$2 \times 0,50 \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " 0,16$$

trave: t e u

$$2 \times 1,50 \times 0,50 \times 1,30 = " 1,95$$

alette:

$$2 \times 1,50 \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " 0,48$$

trave: v

corpo trave

$$1,65 \times 0,50 \times 1,30 = " 1,07$$

alette

$$2 \times \frac{(1,65 + 0,65)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " 0,37$$

Vano ascensore: Z

$$1,40 \times 1,50 \times 0,40 = " 0,84$$

S O M M A N O : ELEM. 4CB ... mc. 97,35

I D E M : ELEM. 5CB ... " 97,35

T O T A L E: ELEMENTO 4CB - 5CB ..... mc. 194,70

=====

E L E M E N T O 6B - 7B  
\*\*\*\*\*

Calcestruzzo a Kg. 300 di cemento  
tipo 730 per mc. 0,800 di pietri-  
schetto calcareo all'anello cm. 3  
e mc. 0,400 di sabbia silicea, ecc.

MISURE DEFINITIVE  
=====

Calcestruzzo per formazione travi  
rovesce. =

ELEMENTO 6B  
\*\*\*\*\*

trave: a-b :  
corpo trave

$$20,60 \times 0,50 \times 1,30 = \text{mc.} \quad 13,39$$

aletta

$$\frac{(20,60 + 21,10)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 3,34$$

$$\frac{(8,25 + 7,25)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 1,24$$

$$\frac{(2,20 + 1,20)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 0,27$$

$$\frac{(8,05 + 6,95)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 1,20$$

trave: c-d  
corpo trave

$$20,60 \times 0,50 \times 1,30 = " \quad 13,39$$

aletta:

$$\frac{(20,10 + 19,60)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 3,18$$

$$\frac{(20,60 + 21,10)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 3,34$$

trave: a-c  
corpo trave

$$10,15 \times 0,50 \times 1,30 = " \quad 6,60$$

alette

$$\frac{(11,15 + 12,15)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 1,86$$

---

A Riportare mc. 47,81

|                                                                                 |         |     |       |
|---------------------------------------------------------------------------------|---------|-----|-------|
|                                                                                 | Riporto | mc. | 47,81 |
| $\frac{4,80 + 3,80}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$            | "       |     | 0,69  |
| $\frac{(4,85 + 3,85)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$          | "       |     | 0,70  |
| <u>trave: b-d</u>                                                               |         |     |       |
| corpo trave                                                                     |         |     |       |
| $10,15 \times 0,60 \times 1,30 =$                                               | "       |     | 7,92  |
| aletta:                                                                         |         |     |       |
| $\frac{(4,80 + 3,80)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2} =$          | "       |     | 0,82  |
| $\frac{(4,85 + 3,85)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2} =$          | "       |     | 0,83  |
| <u>trave: e-f</u>                                                               |         |     |       |
| corpo trave                                                                     |         |     |       |
| $8,30 \times 0,50 \times 1,30 =$                                                | "       |     | 5,39  |
| aletta                                                                          |         |     |       |
| $\frac{(8,30 + 7,30)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$          | "       |     | 1,25  |
| $\frac{(8,30 + 7,30)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$          | "       |     | 1,25  |
| <u>trave: g-h</u>                                                               |         |     |       |
| corpo trave                                                                     |         |     |       |
| $8,10 \times 0,50 \times 1,30 =$                                                | "       |     | 5,26  |
| aletta:                                                                         |         |     |       |
| $\frac{(8,10 + 7,00)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$          | "       |     | 1,21  |
| $\frac{(8,10 + 7,00)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$          | "       |     | 1,21  |
| <u>travi: i-l e m-n</u>                                                         |         |     |       |
| corpo travi :                                                                   |         |     |       |
| $2 \times 5,90 \times 0,50 \times 1,30 =$                                       | "       |     | 7,67  |
| alette:                                                                         |         |     |       |
| $2 \times \frac{(4,50 + 3,50)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$ | "       |     | 1,28  |
| $2 \times 0,90 \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$                    | "       |     | 0,29  |
| A Riportare                                                                     |         | mc. | 83,58 |

= 27 =

|                                                                        |     |            |
|------------------------------------------------------------------------|-----|------------|
| Riporto                                                                | mc. | 83,58      |
| $2 \times 0,40 \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$           | "   | 0,13       |
| <u>travi: o-p e p-r</u>                                                |     |            |
| corpo trave:                                                           |     |            |
| $2 \times 2,50 \times 0,50 \times 1,30$                                | "   | 3,25       |
| aletta:                                                                |     |            |
| $2 \times 1,30 \times 0,50 \times \frac{(0,25 + 0,50)}{2} =$           | "   | 0,42       |
| <u>travi: s-t</u>                                                      |     |            |
| corpo trave:                                                           |     |            |
| $2 \times 1,40 \times 0,50 \times 1,30$                                | "   | 1,82       |
| alette:                                                                |     |            |
| $\frac{(2,20 + 1,20)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$ | "   | 0,27       |
| $\frac{(2,40 + 3,40)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$ | "   | 0,46       |
| <u>Zona ascensore: u</u>                                               |     |            |
| $1,50 \times 1,40 \times 0,40$                                         | "   | 0,84       |
| S O M M A N O: ELEM. 6B .....                                          | mc. | 90,77      |
| IDEM ELEM; 7B .....                                                    | "   | 90,77      |
| S O M M A N O: ELEMENTO 6B e 7B .....                                  | mc. | 181,54     |
| <u>Trave: x-y</u>                                                      |     |            |
| corpo trave:                                                           |     |            |
| $(4,80 + 4,83) \times 0,50 \times 1,30$                                | "   | 3,13       |
| alette:                                                                |     |            |
| $\frac{(4,80 + 3,78)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$ | "   | 0,69       |
| $\frac{(4,83 + 3,85)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$ | "   | 0,69       |
| <u>Trave: v-z</u>                                                      |     |            |
| corpo trave                                                            |     |            |
| $\frac{(4,52 + 4,56)}{2} \times 0,50 \times 1,30$                      | "   | 2,95       |
| A Riportare                                                            |     | mc. 189,00 |

|                                                                      |                        |     |        |
|----------------------------------------------------------------------|------------------------|-----|--------|
|                                                                      | Riperto                | mc. | 189,00 |
| alette:                                                              |                        |     |        |
| $\frac{(4,56 + 3,85)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | =                      | "   | 0,67   |
| $\frac{(4,52 + 3,50)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | =                      | "   | 0,64   |
|                                                                      |                        |     | <hr/>  |
| T O T A L E:                                                         | ELEMENTO 6B - 7B ..... | mc. | 190,31 |
|                                                                      |                        |     | <hr/>  |

PAL."A" - ELEMENTO 8B - 9D - 10C

\*\*\*\*\*

Calcestruzzo a Kg. 300 di cemento  
del tipo 730 per mc. 0,800 di pie  
trischetto calcareo all'anello  
cm. 3 e mc. 0,400 di sabbia sili-  
cea, ecc.=

MISURE DEFINITIVE

=====

Calcestruzzo per formazione tra-  
vi rovesce :

ELEMENTO 8B

\*\*\*\*\*

travi: a-b

corpo trave:

$$10,05 \times 0,50 \times 1,30 = \text{mc.} \quad 6,53$$

alette:

$$\left( \frac{10,05 + 11,15}{2} \right) \times 0,50 \times \left( \frac{0,25 + 0,40}{2} \right) = " \quad 1,70$$

$$\left( \frac{3,85 + 2,70}{2} \right) \times 0,50 \times \left( \frac{0,25 + 0,40}{2} \right) = " \quad 0,52$$

$$\left( \frac{4,60 + 3,45}{2} \right) \times 0,50 \times \left( \frac{0,25 + 0,40}{2} \right) = " \quad 0,64$$

travi: c-d

corpo trave:

$$5,47 \times 0,50 \times 0,30 = " \quad 3,55$$

alette:

$$\left( \frac{5,47 + 5,53}{2} \right) \times 0,50 \times \left( \frac{0,25 + 0,40}{2} \right) = " \quad 0,88$$

$$\left( \frac{5,47 + 5,43}{2} \right) \times 0,50 \times \left( \frac{0,25 + 0,40}{2} \right) = " \quad 0,87$$

Travi: e-h

corpo trave:

$$2 \times 0,60 \times 0,50 \times 1,30 = " \quad 0,78$$

alette:

$$2 \times 1,10 \times 0,55 \times \left( \frac{0,25 + 0,40}{2} \right) \times 2 = " \quad 0,77$$

Travi: f-g

corpo trave:

$$10,25 \times 0,50 \times 1,30 = " \quad 6,66$$

$$\text{A Riportare} \quad \text{mc.} \quad 22,90$$

|                                                                           |     |       |
|---------------------------------------------------------------------------|-----|-------|
| Riporto                                                                   | mc. | 22,90 |
| alette:                                                                   |     |       |
| $\frac{(10,25 + 11,35)}{2} \times 0,56 \times \frac{(0,25+0,40)}{2} = "$  |     | 1,90  |
| $2x \frac{(3,02 + 1,93)}{2} \times 0,55 \times \frac{(0,25+0,40)}{2} = "$ |     | 0,87  |
| $\frac{(2,20 + 1,10)}{2} \times 0,55 \times \frac{(0,25+0,40)}{2} = "$    |     | 0,29  |
| <u>trave: i-l</u>                                                         |     |       |
| corpo trave:                                                              |     |       |
| $5,13 \times 0,50 \times 1,30 = "$                                        |     | 3,33  |
| alette:                                                                   |     |       |
| $\frac{(5,13 + 4,57)}{2} \times 0,55 \times \frac{(0,25+0,40)}{2} = "$    |     | 0,85  |
| $\frac{(5,13 + 4,97)}{2} \times 0,55 \times \frac{(0,25+0,40)}{2} = "$    |     | 0,89  |
| <u>Trave: m-n</u>                                                         |     |       |
| corpo trave:                                                              |     |       |
| $10,05 \times 0,50 \times 1,30 = "$                                       |     | 6,53  |
| alette:                                                                   |     |       |
| $\frac{(4,60 + 3,45)}{2} \times 0,70 \times \frac{(0,25+0,40)}{2} = "$    |     | 0,90  |
| $\frac{(3,85 + 2,70)}{2} \times 0,70 \times \frac{(0,25+0,40)}{2} = "$    |     | 0,73  |
| <u>trave: o-p</u>                                                         |     |       |
| corpo trave:                                                              |     |       |
| $19,85 \times 0,50 \times 1,30 = "$                                       |     | 12,90 |
| alette:                                                                   |     |       |
| $\frac{(19,85 + 18,65)}{2} \times 0,55 \times \frac{(0,25+0,40)}{2} = "$  |     | 3,39  |
| $\frac{(20,85 + 21,35)}{2} \times 0,55 \times \frac{(0,25+0,40)}{2} = "$  |     | 3,71  |
| <u>trave: q-r</u>                                                         |     |       |
| corpo trave:                                                              |     |       |
| $8,50 \times 0,60 \times 1,30 = "$                                        |     | 6,63  |
| alette:                                                                   |     |       |
| $\frac{(8,50 + 7,45)}{2} \times 0,60 \times \frac{(0,25+0,40)}{2} = "$    |     | 1,53  |
| $\frac{(9,00 + 8,00)}{2} \times 0,60 \times \frac{(0,25+0,40)}{2} = "$    |     | 1,63  |

A Riportare

Mc. 68,98

|                                                                         |     |       |
|-------------------------------------------------------------------------|-----|-------|
|                                                                         | mc. | 68,98 |
| <u>trave: s-t</u>                                                       |     |       |
| corpo trave:                                                            |     |       |
| $8,15 \times 0,60 \times 1,30$                                          | = " | 6,36  |
| alette:                                                                 |     |       |
| $\frac{(8,15 + 6,90)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2}$    | = " | 1,44  |
| $\frac{(8,65 + 7,45)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2}$    | = " | 1,54  |
| <u>travi: u-v e z-x</u>                                                 |     |       |
| corpo trave:                                                            |     |       |
| $2x 4,80 \times 0,50 \times 1,30$                                       | = " | 6,24  |
| alette:                                                                 |     |       |
| $2x \frac{(4,80 + 3,75)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2}$ | = " | 1,50  |
| $2x \frac{(5,70 + 4,55)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2}$ | = " | 1,80  |
| <u>travi: y-w</u>                                                       |     |       |
| corpo trave:                                                            |     |       |
| $2x 1,50 \times 0,90 \times 1,30$                                       | = " | 3,51  |
| <u>tratti: 1 e 2</u>                                                    |     |       |
| corpo                                                                   |     |       |
| $2x 0,40 \times 0,40 \times 1,30$                                       | = " | 0,42  |
| alette:                                                                 |     |       |
| $2x \frac{(0,80 + 0,70)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | = " | 0,24  |
| <u>trave: k - j</u>                                                     |     |       |
| corpo trave                                                             |     |       |
| $2,20 \times 0,40 \times 1,30$                                          | = " | 1,14  |
| aletta:                                                                 |     |       |
| $\frac{(2,20 + 3,20)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$    | = " | 0,43  |
| <u>trave: r</u>                                                         |     |       |
| corpo trave                                                             |     |       |
| $1,40 \times 0,40 \times 1,30$                                          | = " | 0,73  |
| aletta                                                                  |     |       |
| $\frac{(2,20 + 1,10)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$    | = " | 0,26  |
| <u>tratto n</u>                                                         |     |       |
| $1,50 \times 1,40 \times 0,40$                                          | = " | 0,84  |
| SOMMANO AUMENTO 8B: a riportare                                         | mc. | 95,43 |

Riporto

mc.

95,43

## ELEMENTO 9B

\*\*\*\*\*

Calcestruzzo per forma-  
zione travi rovesce.=trave a-bz e m-n

corpo travi:

$$2 \times 10,05 \times 0,50 \times 1,30 = " 13,06$$

alette:

$$2 \times \frac{(4,60 + 3,45)}{2} \times 0,70 \times \frac{(0,25 + 0,40)}{2} = " 1,80$$

$$2 \times \frac{(3,85 + 2,70)}{2} \times 0,70 \times \frac{(0,25 + 0,40)}{2} = " 1,47$$

trave c-d e i-l

corpo travi :

$$2 \times 7,72 \times 0,50 \times 1,30 = " 10,04$$

alette:

$$2 \times 7,73 \times 0,55 \times \left( \frac{0,25 + 0,40}{2} \right) = " 2,72$$

$$2 \times \frac{(7,73 + 7,17)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2} = " 2,62$$

trave: e ed h

corpo trave

$$2 \times 0,60 \times 0,50 \times 1,30 = " 0,78$$

alette:

$$2 \times 1,10 \times 0,55 \times \left( \frac{0,25 + 0,40}{2} \right) = " 0,77$$

trave f-g

corpo trave:

$$11,05 \times 0,50 \times 1,30 = " 7,57$$

alette:

$$\frac{(11,65 + 12,75)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2} = " 2,15$$

$$2 \times \frac{(3,72 + 2,63)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2} = " 1,12$$

$$\frac{(2,20 + 1,10)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2} = " 0,29$$

trave: o-p

corpo trave

$$26,10 \times 0,50 \times 1,30 = " 16,96$$

aletta:

$$27,10 \times 0,55 \times \left( \frac{0,25 + 0,40}{2} \right) = " 4,77$$

A Riportare

mc. 66,12

mc. 95,43

|                                                                               |         |     |       |     |       |
|-------------------------------------------------------------------------------|---------|-----|-------|-----|-------|
|                                                                               | Riporto | mc. | 66,12 | mc. | 95,43 |
| $\frac{(26,10+24,70)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2}$          | = "     |     | 4,47  |     |       |
| <u>travi: q-r e s-t</u>                                                       |         |     |       |     |       |
| corpo trave:                                                                  |         |     |       |     |       |
| $2 \times 11,45 \times 0,60 \times 1,30$                                      | = "     |     | 17,86 |     |       |
| <u>aletta</u>                                                                 |         |     |       |     |       |
| $2 \times \frac{(11,45+10,20)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2}$ | = "     |     | 4,16  |     |       |
| $2 \times \frac{(11,95+10,75)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2}$ | = "     |     | 4,36  |     |       |
| <u>travi: n-v e z-x</u>                                                       |         |     |       |     |       |
| corpo trave:                                                                  |         |     |       |     |       |
| $2 \times 4,80 \times 0,50 \times 1,30$                                       | = "     |     | 6,24  |     |       |
| <u>alette</u>                                                                 |         |     |       |     |       |
| $2 \times \frac{(4,80 + 3,75)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2}$ | = "     |     | 1,50  |     |       |
| $2 \times \frac{(5,70 + 4,55)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2}$ | = "     |     | 1,80  |     |       |
| <u>travi: y ed a</u>                                                          |         |     |       |     |       |
| corpo trave :                                                                 |         |     |       |     |       |
| $2 \times 1,50 \times 0,90 \times 1,30$                                       | = "     |     | 3,51  |     |       |
| <u>tratti e ed l</u>                                                          |         |     |       |     |       |
| corpo                                                                         |         |     |       |     |       |
| $2 \times 0,40 \times 0,40 \times 1,30$                                       | = "     |     | 0,42  |     |       |
| <u>alette:</u>                                                                |         |     |       |     |       |
| $2 \times \frac{(0,80 + 0,70)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | = "     |     | 0,24  |     |       |
| <u>trave: k-y</u>                                                             |         |     |       |     |       |
| corpo trave                                                                   |         |     |       |     |       |
| $2,20 \times 0,40 \times 1,30$                                                | = "     |     | 1,14  |     |       |
| <u>aletta</u>                                                                 |         |     |       |     |       |
| $\frac{(2,20 + 3,20)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$          | = "     |     | 0,43  |     |       |
| <u>tratto: n</u>                                                              |         |     |       |     |       |
| $1,50 \times 1,40 \times 0,40$                                                | = "     |     | 0,84  |     |       |

S O M M A N O : ELEMENTO 9D ..... mc. 113,09

A Riportare

mc. 208,52

Riporto

mc. 208,52

## ELEMENTO 10C

\*\*\*\*\*

trave: a-b

corpo trave:

$$10,05 \times 0,50 \times 1,30 = \text{mc.} \quad 6,53$$

alette:

$$\frac{(4,60 + 3,45)}{2} \times 0,70 \times \frac{(0,25 + 0,40)}{2} = " \quad 0,90$$

$$\frac{(3,85 + 2,70)}{2} \times 0,70 \times \frac{(0,25 + 0,40)}{2} = " \quad 0,73$$

trave: c-d

corpo trave

$$6,35 \times 0,50 \times 1,30 = " \quad 4,13$$

alette

$$\frac{(6,35 + 5,80)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2} = " \quad 1,07$$

$$\frac{(6,35 + 6,20)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2} = " \quad 1,10$$

travi: e ed h

corpo trave :

$$2 \times 0,60 \times 0,50 \times 1,30 = " \quad 0,89$$

alette:

$$2 \times 1,10 \times 0,55 \times \frac{(0,25 + 0,40)}{2} \times 2 = " \quad 0,77$$

trave: f-g

corpo trave:

$$11,20 \times 0,50 \times 1,30 = " \quad 7,28$$

alette:

$$\frac{(11,20 + 12,30)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2} = " \quad 2,07$$

$$2 \times \frac{(3,50 + 2,40)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2} = " \quad 1,04$$

$$\frac{(2,20 + 1,10)}{-2} \times 0,55 \times \frac{(0,25 + 0,40)}{2} = " \quad 0,29$$

trave: i-l

corpo trave

$$6,70 \times 0,50 \times 1,30 = " \quad 4,35$$

aletta:

$$(6,70 + 6,85) \times 0,55 \times (0,25 + 0,40) = " \quad 1,17$$

A Riportare

mc. 32,21

mc. 208,52

|                                                                         |     |       |     |        |
|-------------------------------------------------------------------------|-----|-------|-----|--------|
| Riporto                                                                 | mc. | 32,21 | mc. | 208,52 |
| $(6,70 + 6,75) \times 0,55 \times (0,25 + 0,40) =$                      | "   | 1,18  |     |        |
| <u>trave: m-n</u>                                                       |     |       |     |        |
| corpo trave :                                                           |     |       |     |        |
| $10,05 \times 0,50 \times 1,30$                                         | = " | 6,53  |     |        |
| alette:                                                                 |     |       |     |        |
| $\frac{(10,05+11,15)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$  | "   | 1,70  |     |        |
| $\frac{(3,85 + 2,70)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$  | "   | 0,52  |     |        |
| $\frac{(4,60 + 3,45)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} =$  | "   | 0,64  |     |        |
| <u>trave: o-p</u>                                                       |     |       |     |        |
| corpo trave                                                             |     |       |     |        |
| $23,25 \times 0,50 \times 1,30$                                         | = " | 15,11 |     |        |
| alette:                                                                 |     |       |     |        |
| $\frac{(23,25+22,05)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2} =$  | "   | 3,99  |     |        |
| $\frac{(24,25+24,75)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2} =$  | "   | 4,31  |     |        |
| <u>trave q-r</u>                                                        |     |       |     |        |
| corpo trave                                                             |     |       |     |        |
| $9,85 \times 0,60 \times 1,30$                                          | = " | 7,68  |     |        |
| alette:                                                                 |     |       |     |        |
| $\frac{(9,85 + 8,60)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2} =$  | "   | 1,77  |     |        |
| $\frac{(10,35 + 9,15)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2} =$ | "   | 1,87  |     |        |
| <u>trave: s-t</u>                                                       |     |       |     |        |
| corpo trave                                                             |     |       |     |        |
| $10,30 \times 0,60 \times 1,30$                                         | = " | 8,03  |     |        |
| alette:                                                                 |     |       |     |        |
| $\frac{(10,30+ 9,15)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2} =$  | "   | 1,87  |     |        |
| $\frac{(10,70+ 9,70)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2} =$  | "   | 1,96  |     |        |
| <u>travi: u-v e z-x</u>                                                 |     |       |     |        |
| corpo travi:                                                            |     |       |     |        |
| $2 \times 4,80 \times 0,50 \times 1,30$                                 | = " | 6,24  |     |        |
| A Riportare                                                             | mc. | 95,61 | mc. | 208,52 |

| Riporto                                                                 | mc. | 95,61 | mc. | 208,52 |
|-------------------------------------------------------------------------|-----|-------|-----|--------|
| <u>alette:</u>                                                          |     |       |     |        |
| $2x \frac{(4,80 + 3,75)}{2} \times 0,55x \frac{(0,25 + 0,40)}{2}$       | = " | 1,50  |     |        |
| $2x \frac{(5,70 + 4,55)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2}$ | = " | 1,80  |     |        |
| <u>trave: v-w</u>                                                       |     |       |     |        |
| $2 \times 1,50 \times 0,90 \times 1,30$                                 | = " | 3,51  |     |        |
| <u>tratto e-l</u>                                                       |     |       |     |        |
| <u>corpo:</u>                                                           |     |       |     |        |
| $2 \times 0,40 \times 0,40 \times 1,30$                                 | = " | 0,42  |     |        |
| <u>alette:</u>                                                          |     |       |     |        |
| $2x \frac{(0,80 + 0,70)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$ | = " | 0,24  |     |        |
| <u>trave: k-j</u>                                                       |     |       |     |        |
| <u>corpo trave</u>                                                      |     |       |     |        |
| $2,20 \times 0,40 \times 1,30$                                          | = " | 1,14  |     |        |
| <u>alette:</u>                                                          |     |       |     |        |
| $\frac{(2,20 + 3,20)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2}$    | = " | 0,43  |     |        |
| <u>tratto:tt</u>                                                        |     |       |     |        |
| $1,50 \times 1,40 \times 0,40$                                          | = " | 0,84  |     |        |
| S O M M A N O: ELEMENTO 10C .....                                       |     |       | mc. | 105,49 |
| T O T A L E : ELEMENTO 8B - 9D - 10C .....                              |     |       | mc. | 314,01 |
|                                                                         |     |       |     | =====  |

E L E M E N T O 2C = 3D

\*\*\*\*\*

Calcestruzzo a Kg.300 di cemento  
del tipo 730 per mc.0,800 di pie  
trischetto calcareo all'anello  
cm.3 e mc.0,400 di sabbia sili  
cea, ecc.=

MISURE DEFINITIVE

=====

ELEMENTO 2C

\*\*\*\*\*

Calcestruzzo per formazione tra-  
vi rovesce :

Trave a - b

corpo trave:

$$24,80 \times 0,50 \times 1,10 = \text{mc.} \quad 13,64$$

alette:

$$24,80 \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 3,97$$

$$2 \times \frac{(10,15 + 9,10)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 3,08$$

$$\left( \frac{2,20 + 1,20}{2} \right) \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 0,27$$

Trave e - f

corpo trave:

$$23,50 \times 0,50 \times 1,10 = " \quad 12,92$$

alette:

$$2 \times \frac{(10,15 + 9,10)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 3,08$$

$$2 \times \frac{(11,40 + 10,45)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 3,50$$

$$\left( \frac{2,20 + 1,20}{2} \right) \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 0,27$$

Trave c - d

corpo trave:

$$24,80 \times 0,50 \times 1,10 = " \quad 13,64$$

alette:

$$24,80 \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 3,97$$

$$2 \times \frac{(11,40 + 10,45)}{2} \times 0,50 \times \frac{(0,25 + 0,40)}{2} = " \quad 3,50$$

Trave a-c e b-d

$$2 \times 9,20 \times 0,65 \times 1,10 = " \quad 13,16$$

Alette:

$$2 \times \frac{(3,80 + 2,80)}{2} \times 0,55 \times \frac{(0,25 + 0,40)}{2} = " \quad 1,16$$

A Riportare

mc. 86,16

|                                                               |     |       |
|---------------------------------------------------------------|-----|-------|
| Riporto                                                       | mc. | 86,16 |
| $2x \frac{(4,90 + 3,90)}{2} x 0,55 x \frac{(0,25 + 0,40)}{2}$ | = " | 1,57  |

Travi g-h e i-l

corpo trave :

|                          |     |      |
|--------------------------|-----|------|
| $2 x 4,90 x 0,50 x 1,10$ | = " | 5,39 |
|--------------------------|-----|------|

alette:

|                                                               |     |      |
|---------------------------------------------------------------|-----|------|
| $2x2x \frac{(4,90+3,90)}{2} x 0,50 x \frac{(0,25 + 0,40)}{2}$ | = " | 2,82 |
|---------------------------------------------------------------|-----|------|

Trave m-n

corpo trave:

|                      |     |      |
|----------------------|-----|------|
| $3,80 x 0,50 x 1,10$ | = " | 2,09 |
|----------------------|-----|------|

aletta:

|                                                               |     |      |
|---------------------------------------------------------------|-----|------|
| $2x \frac{(3,80 + 2,80)}{2} x 0,50 x \frac{(0,25 + 0,40)}{2}$ | = " | 1,06 |
|---------------------------------------------------------------|-----|------|

|              |               |       |     |       |
|--------------|---------------|-------|-----|-------|
| ELEMENTO 2C: | S O M M A N O | ..... | mc. | 89,09 |
|--------------|---------------|-------|-----|-------|

ELEMENTO 3D

.....

Trave a-b

corpo trave:

|                       |       |      |
|-----------------------|-------|------|
| $11,20 x 0,65 x 1,10$ | = mc. | 8,01 |
|-----------------------|-------|------|

aletta:

|                                        |     |      |
|----------------------------------------|-----|------|
| $11,20 x 0,55 x \frac{(0,25+0,40)}{2}$ | = " | 1,97 |
|----------------------------------------|-----|------|

Trave c-e

corpo trave:

|                       |     |       |
|-----------------------|-----|-------|
| $26,45 x 0,50 x 1,10$ | = " | 14,55 |
|-----------------------|-----|-------|

alette:

|                                                            |     |      |
|------------------------------------------------------------|-----|------|
| $\frac{(26,45 + 26,95)}{2} x 0,50 x \frac{(0,25+0,40)}{2}$ | = " | 4,27 |
|------------------------------------------------------------|-----|------|

|                                                            |     |      |
|------------------------------------------------------------|-----|------|
| $\frac{(11,10 + 10,60)}{2} x 0,50 x \frac{(0,25+0,40)}{2}$ | = " | 1,74 |
|------------------------------------------------------------|-----|------|

|                                                            |     |      |
|------------------------------------------------------------|-----|------|
| $\frac{(11,65 + 10,65)}{2} x 0,50 x \frac{(0,25+0,40)}{2}$ | = " | 1,78 |
|------------------------------------------------------------|-----|------|

|                                                          |     |      |
|----------------------------------------------------------|-----|------|
| $\frac{(2,20 + 1,20)}{2} x 0,50 x \frac{(0,25+0,40)}{2}$ | = " | 0,27 |
|----------------------------------------------------------|-----|------|

|             |     |       |     |       |
|-------------|-----|-------|-----|-------|
| A Riportare | mc. | 32,59 | Mc. | 89,09 |
|-------------|-----|-------|-----|-------|

Riporto

mc.

32,59

mc.

89,09

Trave o-p

corpo trave:

$$25,95 \times 0,50 \times 1,10 = " 14,27$$

alette:

$$\frac{(11,10 + 10,60)}{2} \times 0,50 \times \frac{(0,25+0,40)}{2} = " 1,74$$

$$2x \frac{(11,65 + 10,65)}{2} \times 0,50 \times \frac{(0,25+0,40)}{2} = " 3,57$$

$$\left( \frac{2,20 + 1,20}{2} \right) \times 0,50 \times \frac{(0,25+0,40)}{2} = " 0,27$$

$$\frac{(13,80 + 13,50)}{2} \times 0,50 \times \frac{(0,25+0,40)}{2} = " 2,18$$

Trave d-f

corpo trave

$$26,45 \times 0,50 \times 1,10 = " 14,55$$

alette:

$$\frac{(13,80 + 13,80)}{2} \times 0,50 \times \frac{(0,25+0,40)}{2} = " 2,17$$

$$\frac{(10,65 + 11,65)}{2} \times 0,50 \times \frac{(0,25+0,40)}{2} = " 1,78$$

$$\frac{(26,45 + 26,95)}{2} \times 0,50 \times \frac{(0,25+0,40)}{2} = " 4,27$$

Travi g-h e i-l

corpo trave :

$$2 \times 4,90 \times 0,50 \times 1,10 = " 5,39$$

aletta:

$$2x2x \frac{(4,90 + 3,90)}{2} \times 0,50 \times \frac{(0,25+0,40)}{2} = " 2,82$$

Trave: m-n

corpo trave:

$$3,80 \times 0,50 \times 1,10 = " 2,09$$

alette:

$$2x \frac{(3,80 + 2,80)}{2} \times 0,50 \times \frac{(0,25+0,40)}{2} = " 1,06$$

Trave: e-f

corpo trave:

$$9,20 \times 0,50 \times 1,10 = " 5,06$$

alette:

$$\frac{(3,80 + 2,80)}{2} \times 0,50 \times \frac{(0,25+0,40)}{2} = " 0,53$$

A Riportare

mc.

94,34

mc.

89,09

|                                                                          |     |       |     |       |
|--------------------------------------------------------------------------|-----|-------|-----|-------|
| Riporto                                                                  | mc. | 94,34 | mc. | 89,09 |
| $(\frac{4,90 + 3,90}{2}) \times 0,50 \times (\frac{0,25+0,40}{2}) = "$   |     | 0,70  |     |       |
| $(\frac{10,20 + 11,20}{2}) \times 0,50 \times (\frac{0,25+0,40}{2}) = "$ |     | 1,71  |     |       |

S O M M A N O: ELEMENTO 3D ..... " 96,75

T O T A L E: ELEMENTO 2C e 3D ..... mc. 185,84

=====

## PALAZZINA "B" (ELEMENTO 1D)

Calcestruzzo a Kg.300 di cemento  
del tipo 730 per mc.0,800 di pie  
trischetto calcareo all'anello  
cm.3 e mc.0,400 di sabbia silicea,  
ecc.=

## MISURE DEFINITIVE

Cls. per formazione travi  
rovesce :

Trave a - b  
corpo trave:

$$28,33 \times 0,45 \times 1,30 = \text{mc.} \quad 16,57$$

alette:

$$\frac{(28,33 + 28,85)}{2} \times 0,52 \times \frac{(0,25+0,40)}{2} = " \quad 4,86$$

$$\frac{(11,90 + 10,83)}{2} \times 0,52 \times \frac{(0,25+0,40)}{2} = " \quad 1,93$$

$$\frac{(2,50 + 1,45)}{2} \times 0,52 \times \frac{(0,25+0,40)}{2} = " \quad 0,33$$

$$\frac{(11,93 + 10,87)}{2} \times 0,52 \times \frac{(0,25+0,40)}{2} = " \quad 1,94$$

Trave c - d  
corpo trave:

$$28,33 \times 0,45 \times 1,30 = " \quad 16,57$$

alette:

$$\frac{(26,15 + 27,23)}{2} \times 0,52 \times \frac{(0,25+0,40)}{2}$$

$$\frac{(28,33 + 28,85)}{2} \times 0,52 \times \frac{(0,25+0,40)}{2} = " \quad 4,86$$

trave e - f  
corpo trave:

$$9,15 \times 0,65 \times 1,30 = " \quad 7,73$$

alette:

$$\frac{(4,03 + 2,70)}{2} \times 0,55 \times \frac{(0,25+0,40)}{2} = " \quad 0,60$$

$$\frac{(4,53 + 3,20)}{2} \times 0,55 \times \frac{(0,25+0,40)}{2} = " \quad 0,69$$

Trave g - h  
corpo trave:

$$9,15 \times 0,45 \times 1,30 = " \quad 5,35$$

A Riportare

mc. 65,97

|                                                                          |     |        |
|--------------------------------------------------------------------------|-----|--------|
| Riporto                                                                  | mc. | 65,97  |
| alette :                                                                 |     |        |
| $\frac{(10,05 + 11,10)}{2} \times 0,52 \times \frac{(0,25 + 0,40)}{2}$   | = " | 1,80   |
| $\frac{(4,03 + 2,70)}{2} \times 0,52 \times \frac{(0,25 + 0,40)}{2}$     | = " | 0,57   |
| $\frac{(4,53 + 3,20)}{2} \times 0,52 \times \frac{(0,25 + 0,40)}{2}$     | = " | 0,66   |
| <u>Trave i - l</u>                                                       |     |        |
| corpo trave :                                                            |     |        |
| 12,50 x 0,60 x 1,30                                                      | = " | 9,75   |
| Alette:                                                                  |     |        |
| $\frac{(11,90 + 10,83)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2}$   | = " | 2,16   |
| $\frac{(12,50 + 11,35)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2}$   | = " | 2,26   |
| <u>Trave m - n</u>                                                       |     |        |
| corpo trave:                                                             |     |        |
| 12,53 x 0,60 x 1,30                                                      | = " | 9,77   |
| alette:                                                                  |     |        |
| $\frac{(11,93 + 10,87)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2}$   | = " | 2,17   |
| $\frac{(12,53 + 11,40)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2}$   | = " | 2,27   |
| <u>Travi o - p e p - r</u>                                               |     |        |
| corpo trave:                                                             |     |        |
| 2 x 4,53 x 0,45 x 1,30                                                   | = " | 5,30   |
| Alette:                                                                  |     |        |
| 4 x $\frac{(4,53 + 3,40)}{2} \times 0,52 \times \frac{(0,25 + 0,40)}{2}$ | = " | 2,69   |
| <u>Trave s - t</u>                                                       |     |        |
| corpo trave:                                                             |     |        |
| 2,50 x 0,55 x 1,30                                                       | = " | 1,79   |
| Alette:                                                                  |     |        |
| $\frac{(1,45 + 2,50)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2}$     | = " | 0,37   |
| <u>Travi u-v e z-x</u>                                                   |     |        |
| corpo trave:                                                             |     |        |
| 2 x 1,50 x 0,40 x 1,30                                                   | = " | 1,56   |
| alette:                                                                  |     |        |
| 2 x 1,85 x 0,60 x $\frac{(0,25 + 0,40)}{2}$                              | = " | 0,70   |
| A Riportare                                                              | mc. | 109,79 |

Riporto

mc. 109,79

Trave y-w

corpo trave:

$$2,20 \times 0,40 \times 1,30 = " 1,14$$

alette:

$$\frac{(2,20 + 3,40)}{2} \times 0,60 \times \frac{(0,25 + 0,40)}{2} = " 0,53$$

Zona ascensore K

$$1,50 \times 1,40 \times 0,40 = " 0,84$$

S O M M A N O: ELEMENTO 1D .....

mc. 112,30

=====

Ferro omogeneo in opera  
sagonato per c. a. =

MISURE DEFINITIVE  
 =====

PAL. (ELEM.4CB - 5CB)  
 .....

TRAVE A - 1'

Ø 20 :

|     |      |       |       |
|-----|------|-------|-------|
| 4 x | 6,75 | = ml. | 27,00 |
| 2 x | 8,98 | = "   | 17,96 |
| 4 x | 7,75 | = "   | 31,00 |
| 4 x | 6,85 | = "   | 27,40 |
| 2 x | 7,78 | = "   | 15,56 |
| 4 x | 6,95 | = "   | 27,80 |

Sommano ml. 146,72  
 =====

ml. 146,72 x Kg. 2,466 = Kg. 361,81

Ø 16 :

|         |       |       |        |
|---------|-------|-------|--------|
| 2 x     | 3,41  | = ml. | 6,82   |
| 3 x 4 x | 11,12 | = "   | 133,44 |
| 2 x     | 3,26  | = "   | 6,52   |
| 2 x 2 x | 7,47  | = "   | 29,88  |
| 4 x 2 x | 6,43  | = "   | 51,44  |
| 7 x 2 x | 2,32  | = "   | 32,48  |

Sommano ml. 260,58  
 =====

ml. 260,58 x Kg. 1,578 = " 411,19

Staffe

Ø 12 :

|             |      |       |        |
|-------------|------|-------|--------|
| (27+85+26)x | 3,72 | = ml. | 513,36 |
| (27+85+26)x | 3,91 | = "   | 539,58 |

Sommano ml. 1.052,94  
 =====

ml. 1.052,94x Kg. 0,888 = " 935,01

Reggistaffe

Ø 8 :

|     |       |       |        |
|-----|-------|-------|--------|
| 4 x | 26,34 | = ml. | 105,36 |
|-----|-------|-------|--------|

ml. 105,36 x Kg. 0,395 = " 41,62

TRAVE 6 - 6'

Ø 16 :

|         |       |       |       |
|---------|-------|-------|-------|
| 2 x 3 x | 10,02 | = ml. | 60,12 |
| 3 x     | 3,26  | = "   | 9,78  |
| 2 x 3 x | 7,30  | = "   | 43,80 |
| 3 x     | 3,41  | = "   | 10,23 |

A Riportare ml. 123,93 Kg. 1.749,63

Riporto = ml. 123,93 Kg. 1.749,63  
 2 x 3 x 10,67 = " 64,02  
 6 x 2 x 2,32 = " 27,84

Sommano ml. 215,79  
 =====

ml. 215,79 x Kg. 1,578 = " 340,52

Ø 20 :

4 x 6,85 = ml. 27,40  
 2 x 8,88 = " 17,76  
 4 x 7,65 = " 30,60  
 4 x 6,75 = " 27,00  
 2 x 7,73 = " 15,46  
 4 x 6,55 = " 26,20

Sommano ml. 144,42  
 =====

ml. 144,42 x Kg. 2,466 = " 356,14

Staffe

Ø 12 :

(27+15+15+26)x3,72=ml. 398,76  
 (27+15+21+21+  
 +15+26) x 3,91 = ml. 488,75

Sommano ml. 797,51  
 =====

ml. 797,51 x Kg. 0,888 = " 708,19

Ø 10 :

(21 + 21) x 3,68= ml. 154,56  
 =====

ml. 154,56 x Kg. 0,617 = " 95,36

Reggistaffe

Ø 8 :

4 x 13,19 = ml. 52,76  
 4 x 13,04 = " 52,16

Sommano ml. 104,92  
 =====

ml. 104,92 x Kg. 0,395 = " 41,44

TRAVE 10 - 10'

Ø 20 :

4 x 6,95 = ml. 27,80  
 2 x 8,98 = " 17,96  
 4 x 7,00 = " 28,00  
 4 x 6,85 = " 27,40  
 2 x 7,84 = " 15,68  
 4 x 6,95 = " 27,80

Sommano ml. 144,64  
 =====

ml. 144,64 x Kg. 2,466 = " 356,68

A Riportare

Kg. 3.647,96

Riporto

Kg. 3.647,96

Ferro per formazione  
travi rovesce :

Ø 16 :

|         |      |       |        |
|---------|------|-------|--------|
| 4 x 3 x | 9,77 | = ml. | 117,24 |
| 2 x 3 x | 5,10 | = "   | 30,60  |
| 2 x     | 6,36 | = "   | 12,72  |
| 2 x 2 x | 7,47 | = "   | 29,88  |
| 3 x     | 3,26 | = "   | 9,78   |
| 3 x     | 3,41 | = "   | 10,23  |
| 8 x 2 x | 2,32 | = "   | 18,56  |

Sommano ml. 229,09

ml. 229,09 x Kg. 1,578 = " 361,50

Staffe:

Ø 12 :

(27+14+14+14+26) x  
x 3,72 = ml. 353,40(27+14+22+14+22+14+  
+26) x 3,91 = " 343,49Sommano ml. 896,89

ml. 896,89 x Kg. 0,888 = " 796,44

Ø 10 :

(22 + 22) x 3,68 = ml. 161,92

ml. 161,92 x Kg. 0,617 = " 99,90

Reggistaffe

Ø 8 :

4 x 26,34 = ml. 105,36

ml. 105,36 x Kg. 0,395 = " 41,62

TRAVI 17'-15' e 17-15

Ø 16 :

|           |      |       |              |
|-----------|------|-------|--------------|
| 2 x 3 x   | 8,27 | = ml. | 49,62        |
| 3 x 3 x   | 8,30 | = "   | 49,80        |
| 2x3 x 3 x | 2,32 | = "   | 27,84        |
| 2 x 3 x   | 9,87 | = "   | <u>59,22</u> |

Sommano ml. 186,48

ml. 186,48 x Kg. 1,578 = " 294,26

Staffe

Ø 12 :

2 x 16 x 3,72 = ml. 119,04  
2x(16+12+8)x3,91 = " 281,52Sommano ml. 400,56ml. 400,56 x Kg. 0,888 = " 355,70

A Riportare

Kg. 5.597,38

Riporto

Kg. 5.597,38

Ø 10 :

$$2 \times 12 \times 3,68 = \underline{\text{ml. } 88,32}$$

$$\text{ml. } 88,32 \times \text{Kg. } 0,617 = \text{Kg. } 54,49$$

Reggistaffe

Ø 8 :

$$2 \times 4 \times 6,91 = \underline{\text{ml. } 55,28}$$

$$\text{ml. } 55,28 \times \text{Kg. } 0,395 = " 21,83$$

TRAVE 1 - 10

Ø 20 :

$$4 \times 10,00 = \text{ml. } 40,00$$

$$5 \times 9,98 = " 49,90$$

$$2 \times 9,24 = " 18,48$$

$$4 \times 8,75 = " 35,00$$

$$4 \times 7,85 = \underline{" 31,40}$$

$$\text{Sommano } \underline{\text{ml. } 174,78}$$

$$\text{ml. } 174,78 \times \text{Kg. } 2,466 = " 431,01$$

Staffe

Ø 12 :

$$61 \times 3,72 = \text{ml. } 226,92$$

$$71 \times 3,91 = \underline{" 277,61}$$

$$\text{Sommano } \underline{\text{ml. } 504,33}$$

$$\text{ml. } 504,33 \times \text{Kg. } 0,888 = " 448,02$$

Reggistaffe:

Ø 8 :

$$4 \times 10,76 = \underline{\text{ml. } 43,04}$$

$$\text{ml. } 43,04 \times \text{Kg. } 0,395 = " 17,00$$

TRAVE 1' - 10'

Ø 20 :

$$3 \times 10,00 = \text{ml. } 30,00$$

$$4 \times 9,98 = " 39,92$$

$$2 \times 9,24 = " 18,48$$

$$3 \times 8,75 = " 26,25$$

$$3 \times 7,85 = \underline{" 23,55}$$

$$\text{Sommano } \underline{\text{ml. } 138,20}$$

$$\text{ml. } 138,20 \times \text{Kg. } 2,466 = " 340,80$$

Staffe

Ø 12 :

$$46 \times 3,92 = \underline{\text{ml. } 180,32}$$

$$\text{A Riportare } \text{ml. } 180,32 \quad \text{Kg. } 6.910,55$$

|           |              |               |        |          |
|-----------|--------------|---------------|--------|----------|
| Riperto   | ml.          | 180,32        | Kg.    | 6.910,55 |
| 54 x 3,19 | =            | "             | 172,26 |          |
| Sommano   | ml.          | <u>352,58</u> |        |          |
| ml.       | 352,58 x Kg. | 0,888         | =      | " 313,09 |

Reggistaiffe  
 Ø 8 :

|           |             |       |              |         |
|-----------|-------------|-------|--------------|---------|
| 4 x 10,76 | =           | ml.   | <u>43,04</u> |         |
| ml.       | 43,04 x Kg. | 0,395 | =            | " 17,00 |

TRAVE 15 - 15'

Ø 18 :

|          |             |              |              |         |
|----------|-------------|--------------|--------------|---------|
| 3 x 5,96 | =           | ml.          | 17,88        |         |
| 3 x 7,56 | =           | "            | <u>22,68</u> |         |
| Sommano  | ml.         | <u>40,56</u> |              |         |
| ml.      | 40,56 x Kg. | 1,998        | =            | " 81,04 |

Ø 16 :

|          |             |       |              |         |
|----------|-------------|-------|--------------|---------|
| 2 x 8,96 | =           | ml.   | <u>17,92</u> |         |
| ml.      | 17,92 x Kg. | 1,578 | =            | " 28,28 |

Staffe

Ø 12 :

|           |             |       |              |         |
|-----------|-------------|-------|--------------|---------|
| 14 x 3,72 | =           | ml.   | <u>52,08</u> |         |
| ml.       | 52,08 x Kg. | 0,888 | =            | " 46,25 |

TRAVE 14 - 14'

Ø 18 :

|          |             |              |              |         |
|----------|-------------|--------------|--------------|---------|
| 3 x 4,92 | =           | ml.          | 14,76        |         |
| 3 x 6,52 | =           | "            | <u>19,56</u> |         |
| Sommano  | ml.         | <u>34,32</u> |              |         |
| ml.      | 34,32 x Kg. | 1,998        | =            | " 68,57 |

Staffe

Ø 12 :

|          |             |       |              |         |
|----------|-------------|-------|--------------|---------|
| 9 x 3,72 | =           | ml.   | <u>33,48</u> |         |
| ml.      | 33,48 x Kg. | 0,888 | =            | " 29,73 |

TRAVE 14-15 e 14'-15'

Ø 18 :

|              |             |              |              |          |
|--------------|-------------|--------------|--------------|----------|
| 2 x 3 x 5,06 | =           | ml.          | 30,36        |          |
| 2 x 3 x 6,66 | =           | "            | <u>39,96</u> |          |
| Sommano      | ml.         | <u>70,32</u> |              |          |
| ml.          | 70,32 x Kg. | 1,998        | =            | " 140,50 |

A Riportare                      Kg. 7.635,01

Riporto

Kg. 7.635,01

Staffe

Ø 12 :

$$2 \times 9 \times 3,72 = \text{ml. } 66,96$$

$$\text{ml. } 66,96 \times \text{Kg. } 0,888 = " 59,46$$

Armatura aletta e zona vano  
ascensore :

Ø 8 :

$$18 \times 2,56 = \text{ml. } 46,08$$

$$18 \times 5,96 = " 107,28$$

Reggistaffe

Ø 8 :

$$4 \times 3,56 = " 14,24$$

$$\text{Sommano ml. } 167,60$$

$$\text{ml. } 167,60 \times \text{Kg. } 0,395 = " 66,20$$

Armatura trasversale

Ø 8 :

$$17 \times 2,66 = \text{ml. } 45,22$$

$$17 \times 6,06 = " 103,02$$

Reggistaffe:

$$4 \times 3,66 = " 14,64$$

$$\text{Sommano ml. } 162,88$$

$$\text{ml. } 162,88 \times \text{Kg. } 0,395 = " 64,34$$

TRAVE SOLLEGAMENTO 14/14'-5

Ø 16 :

$$3 \times 5,22 = \text{ml. } 15,66$$

$$3 \times 6,82 = " 20,46$$

$$\text{Sommano ml. } 36,12$$

$$\text{ml. } 36,12 \times \text{Kg. } 1,578 = " 57,00$$

Staffe

Ø 12:

$$11 \times 3,72 = \text{ml. } 40,92$$

$$12 \times 3,91 = " 74,29$$

$$\text{Sommano ml. } 115,21$$

$$\text{ml. } 115,21 \times \text{Kg. } 0,888 = " 102,31$$

A Riportare

Kg. 7.984,32

= 50 =

Riporto

Kg. 7.984,32

Reggistaffe

Ø 8 :

4 x 3,86 = ml. 15,44

ml. 15,44 x Kg. 0,395 = " 6,10

SOMMANO ELEMENTO 4CB ..... Kg. 7.990,42

idem ELEMENTO 5CB ..... " 7.990,42

T O T A L E ELEMENTO 4CB e 5CB .....

Kg. 15.980,84

Ferro per formazione spez-  
zoni pilastri.=

ELEMENTO 4CB

\*\*\*\*\*

Pil. 1-6-10-1'-10'-6'-11-11'-7-8-

9-7'8'-9'-13-13'-12-12'.=

Ø 14 :

18 x 16 x 3,99 = ml. 430,92

ml. 430,92 x Kg. 1,208 = Kg. 520,55

Staffe

Ø 6 :

18 x 22 x 1,00 = ml. 792,00

ml. 792,00 x Kg. 0,222 = " 175,82

Pil. 2-3-4-5-4'-3'-2'

Staffe

Ø 6 :

7 x 19 x 2,00 = ml. 266,00

ml. 266,00 x Kg. 0,222 = " 59,05

Pil. 17-17'-16-16'-15-15'

Ø 14 :

6 x 6 x 3,99 = ml. 143,64

ml. 143,64 x Kg. 1,208 = " 173,52

Staffe

Ø 6 :

6 x 25 x 1,80 = ml. 270,00

ml. 270,00 x Kg. 0,222 = " 59,94

A Riportare

Kg. 1.353,84

Kg. 15.980,84

Riporto

Kg. 1.353,84

Kg. 15.980,84

Pil. 14 - 14'

Ø 14 :

$$2 \times 6 \times 3,99 = \underline{\underline{\text{ml. } 47,88}}$$

$$\text{ml. } 47,88 \times \text{Kg. } 1,208 = " \quad 57,84$$

Staffe:

Ø 6

$$2 \times 30 \times 1,60 = \underline{\underline{\text{ml. } 96,00}}$$

$$\text{ml. } 96,00 \times \text{Kg. } 0,222 = " \quad 21,31$$

SOMMANO ELEMENTO 4 CB .....

" 1.432,99

ELEMENTO 5 CB

\*\*\*\*\*

Pil. 1-6-10-1'-10'6'-11'-11-7-8-  
9-7'-8'-9'-13-13'-12-12'.

Ø 14 :

$$18 \times 6 \times 3,12 = \underline{\underline{\text{ml. } 336,96}}$$

$$\text{ml. } 336,96 \times \text{Kg. } 1,208 = \text{Kg. } 407,05$$

Staffe:

Ø 6

$$18 \times 15 \times 2,00 = \underline{\underline{\text{ml. } 540,00}}$$

$$\text{ml. } 540,00 \times \text{Kg. } 0,222 = " \quad 119,88$$

Pil. 2-3-4-5-4'-3'-2'

Ø 16 :

$$7 \times 8 \times 3,26 = \underline{\underline{\text{ml. } 182,56}}$$

$$\text{ml. } 182,56 \times \text{Kg. } 1,578 = " \quad 288,08$$

Staffe

Ø 6 :

$$7 \times 13 \times 2,00 = \underline{\underline{\text{ml. } 182,00}}$$

$$\text{ml. } 182,00 \times \text{Kg. } 0,222 = " \quad 40,40$$

Pil. 17-17'-16-16'-15-15'

Ø 14 :

$$6 \times 6 \times 3,12 = \underline{\underline{\text{ml. } 112,32}}$$

$$\text{ml. } 112,32 \times \text{Kg. } 1,208 = " \quad 135,68$$

Staffe

Ø 8 :

$$6 \times 15 \times 1,80 = \underline{\underline{\text{ml. } 162,00}}$$

$$\text{ml. } 162,00 \times \text{Kg. } 0,222 = " \quad 35,96$$

A Riportare

Kg. 1.027,05

Kg. 17.413,83

Kg. 1.027,05

Kg. 17.413,83

Pil. 14 - 14'

Ø 14 :

$$2 \times 6 \times 3,12 = \text{ml. } 37,44$$

$$\text{ml. } 37,44 \times \text{Kg. } 1,208 = " 45,22$$

Staffe

Ø 6 :

$$2 \times 21 \times 1,60 = \text{ml. } 67,20$$

$$\text{ml. } 67,20 \times \text{Kg. } 0,222 = " 14,92$$

SOMMANO: ELEMENTO 5 CB .....

" 1.087,19

ELEMENTO 4 CB

.....

Ferro per formazione cordoli  
di irrigidimento.=TRATTI 1-1' e 10-10'

Ø 16 :

$$2 \times 4 \times 27,09 = \text{ml. } 216,72$$

$$\text{ml. } 216,72 \times \text{Kg. } 1,578 = \text{Kg. } 341,98$$

Staffe

Ø 8 :

$$2 \times 81 \times 1,64 = \text{ml. } 265,68$$

$$\text{ml. } 265,68 \times \text{Kg. } 0,395 = " 104,94$$

MAggiore armatura nei trat-  
ti 11-13 e 11'-13'.=

Ø 16 :

$$2 \times 2 \times 7,22 = \text{ml. } 28,88$$

$$\text{ml. } 28,88 \times \text{Kg. } 1,578 = " 45,57$$

TRATTI 6-16 e 16'-6'

Ø 16 :

$$2 \times 4 \times 11,39 = \text{ml. } 91,12$$

$$\text{ml. } 91,12 \times \text{Kg. } 1,578 = " 143,79$$

Staffe Ø 8:

$$2 \times 38 \times 1,64 = \text{ml. } 124,64$$

$$\text{ml. } 124,64 \times \text{Kg. } 0,395 = " 49,23$$

A Riportare

Kg. 685,51

Kg. 18.501,02

= 53  $\frac{1}{2}$

Kg. 685,51

Kg. 18.501,02

TRATTI 1-10 e 1'-10'

Ø 16 :

$$2 \times 4 \times 9,92 = \text{ml. } 79,36$$

$$\text{ml. } 79,36 \times \text{Kg. } 1,578 = " 125,23$$

Staffe

Ø 8 :

$$2 \times 32 \times 1,64 = \text{ml. } 104,96$$

$$\text{ml. } 104,96 \times \text{Kg. } 0,395 = " 41,46$$

TRATTI 2-7 e 2'-7'.=

Ø 16 :

$$2 \times 6 \times 5,82 = \text{ml. } 69,84$$

$$\text{ml. } 69,84 \times \text{Kg. } 1,578 = " 110,21$$

Staffe

Ø 8 :

$$2 \times 17 \times 1,64 = \text{ml. } 55,76$$

$$\text{ml. } 55,76 \times \text{Kg. } 0,395 = " 22,02$$

TRATTI 17-15 e 17'-15'.=

Ø 16 :

$$2 \times 6 \times 5,72 = \text{ml. } 68,64$$

$$\text{ml. } 68,64 \times \text{Kg. } 1,578 = " 108,31$$

Staffe

Ø 8 :

$$2 \times 18 \times 1,16 = \text{ml. } 41,76$$

$$\text{ml. } 41,76 \times \text{Kg. } 0,395 = " 16,49$$

TRATTO 15 - 15'

Ø 16 :

$$6 \times 3,52 = \text{ml. } 21,12$$

$$\text{Kg. } 21,12 \times \text{Kg. } 1,578 = " 33,33$$

Staffe

Ø 8 :

$$11 \times 1,16 = \text{ml. } 12,76$$

$$\text{ml. } 12,76 \times \text{Kg. } 0,395 = " 5,04$$

TRATTI 14-15 e 14'-15'.=

Ø 16 :

$$2 \times 6 \times 2,32 = \text{ml. } 27,84$$

$$\text{ml. } 27,84 \times \text{Kg. } 1,578 = " 43,93$$

A Riportare

Kg. 1.191,53

Kg. 18.501,02

= 54 =

Kg. 1.191,53

Kg. 18.501,02

Staffe

Ø 8 :

$$2 \times 7 \times 1,16 = \text{ml. } 16,24$$

$$\text{ml. } 16,24 \times \text{Kg. } 0,395 = " 6,41$$

TRATTO 14 - 14'

Ø 16 :

$$6 \times 2,12 = \text{ml. } 12,72$$

$$\text{ml. } 12,72 \times \text{Kg. } 1,578 = " 20,07$$

Staffe

Ø 8 :

$$6 \times 1,16 = \text{ml. } 6,96$$

$$\text{ml. } 6,96 \times \text{Kg. } 0,395 = " 2,75$$

TRATTO 14/14' - 15

Ø 16 :

$$4 \times 3,02 = \text{ml. } 12,08$$

$$\text{ml. } 12,08 \times \text{Kg. } 1,578 = " 19,06$$

Staffe

Ø 8 :

$$9 \times 1,64 = \text{ml. } 14,76$$

$$\text{ml. } 14,76 \times \text{Kg. } 0,395 = " 5,83$$

" 1.245,68

Cordoli portamuratura e  
portatramezzi.=

ELEMENTO 4 CB e 5 CB

\*\*\*\*\*

Tratti longitudinali:

Ø 16 :

$$2 \times 8 \times 7,02 = \text{ml. } 112,32$$

$$2 \times 4 \times 7,72 = " 61,76$$

$$2 \times 4 \times 9,12 = " 72,96$$

$$2 \times 4 \times 18,58 = " 148,64$$

$$2 \times 4 \times 3,62 = " 28,96$$

$$\text{Sommano ml. } 424,64$$

$$\text{ml. } 424,64 \times \text{Kg. } 1,578 = \text{Kg. } 670,08$$

A Riportare

Kg. 670,08

Kg. 19.746,70

Riporto

Kg. 670,08

Kg. 19.746,70

Staffe

Ø 8 :

|               |       |        |
|---------------|-------|--------|
| 2 x 28 x 2,68 | = ml. | 147,84 |
| 2 x 29 x 1,64 | = "   | 111,52 |
| 2 x 33 x 1,64 | = "   | 108,24 |
| 2 x 72 x 1,64 | = "   | 236,16 |
| 2 x 11 x 1,64 | = "   | 36,08  |

Somma ml. 639,84

ml. 639,84 x Kg. 0,395 = " 252,74

Tratti trasversali

Ø 16 :

|                |       |        |
|----------------|-------|--------|
| 2x6 x 4 x 4,92 | = ml. | 236,16 |
| 2 x 10 x 3,32  | = "   | 66,40  |
| 2x4 x 4 x 3,77 | = "   | 120,64 |

Somma ml. 423,20

ml. 423,20 x Kg. 1,578 = " 667,81

Staffe

Ø 8 :

|                 |       |        |
|-----------------|-------|--------|
| 2x6 x 24 x 1,64 | = ml. | 472,32 |
| 2x2 x 10 x 5,68 | = "   | 227,20 |
| 2x4 x 14 x 1,64 | = "   | 183,68 |

Somma ml. 883,20

ml. 883,20 x Kg. 0,395 = " 348,86

SOMMA: ELEMENTO 4cb e 5cb .....

" 1.939,49

T O T A L E ELEMENTO 4 CB e 5 CB .....

Kg. 21.686,19

=====

Ferro omogeneo in opera sagomato  
per cemento armato.=

MISURE DEFINITIVE - PAL. (EL. 6B - 7B)

Ferro per formazione travi rovesce:

ELEMENTO 6B-7B

\*\*\*\*\*

TRAVE 1-7

Ø 18:

|              |       |        |
|--------------|-------|--------|
| 3 x 12,85    | = ml. | 38,55  |
| 3 x 12,75    | = "   | 38,25  |
| 2 x 1,81     | = "   | 3,62   |
| 5 x 2 x 2,36 | = "   | 23,60  |
| 2 x 1,56     | = "   | 3,12   |
| 3 x 13,95    | = "   | 41,85  |
| 3 x 12,85    | = "   | 38,55  |
| Sommano      | ml.   | 187,54 |

$$\text{ml. } 187,54 \times \text{Kg. } 1,998 = \text{Kg. } 374,70$$

Ø 20:

|              |       |       |
|--------------|-------|-------|
| 2 x 7,31     | = ml. | 14,62 |
| 5 x 2 x 7,53 | = "   | 75,30 |
| Sommano      | ml.   | 89,92 |

$$\text{ml. } 89,92 \times \text{Kg. } 2,466 = " 221,74$$

Staffe

Ø 12:

|            |       |        |
|------------|-------|--------|
| 101 x 3,72 | = ml. | 375,72 |
| 101 x 3,91 | = "   | 394,91 |
| Sommano    | ml.   | 770,63 |

$$\text{ml. } 770,63 \times \text{Kg. } 0,888 = " 684,32$$

Reggiastaffe

Ø 8:

|           |       |       |
|-----------|-------|-------|
| 4 x 21,74 | = ml. | 86,96 |
|-----------|-------|-------|

$$\text{ml. } 86,96 \times \text{Kg. } 0,395 = " 34,35$$

Trave 8-15

Ø 8 :

|             |       |              |
|-------------|-------|--------------|
| 3 x 11,87   | = ml. | 35,61        |
| a riportare | ml.   | 35,61        |
|             |       | Kg. 1.315,11 |

Riporto ml. 35,61 Kg. 1.315,11

3 x 11,77 = " 35,31  
3 x 14,07 = " 42,21  
3 x 12,97 = " 38,91

Sommano ml. 152,04

ml. 152,04 x Kg. 1,998 = " 303,77

Ø 20 :

2 x 7,45 = ml. 14,90  
2 x 7,87 = " 31,48  
2 x 6,77 = " 13,54  
2 x 3,41 = " 10,23  
2 x 2 x 1,80 = " 7,20  
2 x 2,76 = " 5,52

Sommano ml. 82,87

ml. 82,87 x Kg. 2,466 = " 204,36

Staffe

Ø 12 :

90 x 3,72 = ml. 334,80  
90 x 3,91 = " 351,90

Sommano ml. 686,70

ml. 686,70 x Kg. 0,888 = " 609,79

Reggistaffe

Ø 8 :

41 x 21,74 = ml. 891,34

ml. 891,34 x Kg. 0,395 = " 352,08

Trave 18-25

Ø 18 :

3 x 11,47 = ml. 34,41  
2 x 3 x 5,11 = " 30,66  
3 x 11,37 = " 34,11  
3 x 12,55 = " 37,65  
3 x 11,47 = " 34,41  
1 x 6,49 = " 6,49

Sommano ml. 177,73

ml. 177,73 x Kg. 1,998 = " 355,10

Ø 20 :

2 x 7,31 = ml. 14,62  
2 x 2 x 7,56 = " 30,24

a riportare ml. 44,86 Kg. 3.140,21

Riporto ml. 44,86 Kg. 3.140,21

2 x 6,73 = " 13,46

2 x 1,81 = " 3,62

4 x 2 x 2,36 = " 18,88

2 x 1,56 = " 3,12

Sommano ml. 83,94

ml. 83,94 x Kg. 2,466 = " 207,00

Staffe:

Ø 12 :

101 x 3,72 = ml. 375,72

101 x 3,91 = " 394,91

Sommano ml. 770,63

ml. 770,63 x Kg. 0,888 = " 684,32

Trave 18-25

Reggistaffe

Ø 8 :

4 x 21,74 = ml. 86,96

ml. 86,96 x Kg. 0,395 = " 34,35

Trave 1-18

Ø 20 :

5 x 13,75 = ml. 68,75

5 x 8,93 = " 44,65

5 x 8,96 = " 44,80

5 x 9,35 = " 46,75

5 x 9,40 = " 47,00

Sommano ml. 251,95

ml. 251,95 x Kg. 2,466 = " 621,31

Staffe

Ø 12 :

72 x 3,72 = ml. 267,84

82 x 3,91 = " 320,62

Sommano ml. 588,46

ml. 588,46 x Kg. 0,888 = " 522,55

Reggistaffe

Ø 8 :

4 x 12,79 = ml. 51,16

ml. 51,16 x Kg. 0,395 = " 20,21

A Riportare Kg. 5.229,95

## Riporto

Kg. 5.229,95

Travi 11-21 e 12-22

Ø 18 :

|              |       |       |
|--------------|-------|-------|
| 2 x 3 x 8,91 | = ml. | 53,46 |
| 2 x 2 x 6,70 | = "   | 26,80 |
| 2 x 2 x 6,54 | = "   | 26,16 |
| 2 x 3 x 9,36 | = "   | 56,16 |

Sommano ml. 162,83

ml. 162,83 x Kg. 1,998 = " 324,83

## Staffe

Ø 12 :

|               |       |        |
|---------------|-------|--------|
| 2 x 32 x 3,72 | = ml. | 238,08 |
| 2 x 39 x 3,91 | = "   | 304,98 |

Sommano ml. 453,06

ml. 453,06 x Kg. 0,888 = " 482,24

## Reggistaffe

Ø 8 :

|              |       |       |
|--------------|-------|-------|
| 2 x 4 x 7,46 | = ml. | 59,68 |
|--------------|-------|-------|

ml. 59,68 x Kg. 0,395 = " 23,57

Trave 7-25

Ø 18 :

|           |       |       |
|-----------|-------|-------|
| 6 x 13,75 | = ml. | 82,50 |
| 6 x 9,35  | = "   | 56,10 |
| 6 x 9,40  | = "   | 56,40 |

Sommano ml. 195,00

ml. 195,00 x Kg. 1,998 = " 389,61

Ø 20 :

|          |       |       |
|----------|-------|-------|
| 4 x 8,93 | = ml. | 35,72 |
| 4 x 8,96 | = "   | 35,84 |

Sommano ml. 71,56

ml. 71,56 x Kg. 2,466 = Kg. 176,47

## Staffe

Ø 12 :

|           |       |        |
|-----------|-------|--------|
| 72 x 3,92 | = ml. | 282,24 |
| 82 x 3,19 | = "   | 261,58 |

Sommano ml. 543,82

ml. 543,82 x Kg. 0,888 = " 482,91

A Riportare

Kg. 7.109,58

= 60 =

Riporto Kg

Kg. 7.109,58

Reagistaffe:

Ø 8 :

4 x 12,79 = ml. 51,16

ml. 51,16 x Kg. 0,395 = " 20,21

Tratto A1 - 11 e A2 12

Ø 16 :

2 x 3 x 5,02 = ml. 30,12

2 x 3 x 7,22 = " 43,32

Sommano ml. 73,44

ml. 73,44 x Kg. 1,578 = " 115,89

Staffe :

Ø 12 :

2 x 8 x 3,72 = ml. 59,52

ml. 59,52 x Kg. 0,888 = " 52,85

Tratto 11-12

Ø 18 :

4 x 5,71 = ml. 22,84

4 x 4,51 = " 18,04

Sommano ml. 40,88

ml. 40,88 x Kg. 1,998 = " 81,68

Staffe

Ø 12 :

13 x 3,72 = ml. 48,36

ml. 48,36 x Kg. 0,888 = " 42,94

Tratto A1 - A2

Ø 16 :

3 x 4,92 = ml. 14,76

3 x 7,12 = " 21,36

Sommano ml. 36,12

ml. 36,12 x Kg. 1,578 = " 57,00

Staffe

Ø 12 :

9 x 3,72 = ml. 33,48

ml. 33,48 x Kg. 0,888 = " 29,73

A Riportare

Kg. 7.509,88

## Riporto

Kg. 7.509,88

Piastra trave ascensore  
trasversale :

Ø 12 :

18 x 6,15 = ml. 110,70

18 x 3,61 = " 64,98

Sommano ml. 175,68

ml. 175,68 x Kg. 0,888 = " 156,00

Reggistaffe:

Ø 8 :

4 x 3,63 = ml. 14,52

ml. 14,52 x Kg. 0,395 = " 5,73

Sezione longitudinale:

Ø 12 :

17 x 3,71 = ml. 63,07

17 x 6,25 = " 106,25

Sommano ml. 169,32

ml. 169,32 x Kg. 0,888 = " 150,36

Reggistaffe:

Ø 8 :

4 x 3,53 = ml. 14,12

ml. 14,12 x Kg. 0,395 = " 5,58

SOMMANO ELEMENTO 6B ..... Kg. 7.827,55

SOMMANO ELEMENTO 7B ..... " 7.827,55

T O T A L E ELEM.6B e 7B

Kg. 15.655,10

Travi 9' - 19'

Ø 20 :

5 x 8,45 = ml. 42,25

5 x 8,52 = " 42,60

5 x 10,65 = " 53,25

Sommano ml. 138,10

ml. 138,10 x Kg. 2,466 = Kg. 340,55

Staffe

Ø 12 :

37 x 3,72 = ml. 137,64

48 x 3,91 = " 187,68

Sommano ml. 325,32

A Riportare

Kg. 340,55

Kg. 15.655,10

= 62 =

Riporto

Kg. 340,55 Kg. 15.655,10

ml. 325,32 x Kg. 0,888 = Kg. 288,88

Reggistaffe

Ø 8 :

4 x 7,01 = ml. 28,04

ml. 28,04 x Kg. 0,395 = " 11,07

Trave 10' - 20'

Ø 20 :

5 x 8,28 = ml. 41,40

5 x 8,35 = " 41,70

5 x 10,48 = " 52,40

Sommano ml. 135,55

ml. 135,55 x Kg. 2,466 = " 334,27

Staffe :

Ø 12 :

36 x 3,72 = ml. 133,92

47 x 3,91 = " 183,77

Sommano ml. 317,69

ml. 317,69 x Kg. 0,888 = " 282,11

Reggistaffe

Ø 8 :

4 x 6,84 = ml. 27,36

ml. 27,36 x Kg. 0,395 = " 10,81

S O M M A N O

Kg. 1.267,69

T O T A L E .....

Kg. 16.922,79

Ferro per formazione spez-  
zoni pilastri.=

ELEMENTO 6B  
\*\*\*\*\*

Pal. 1-7-18-25-2-6-19-24-20-23

Ø 14 :

10 x 6 x 2,50 = ml. 150,00

ml. 150,00 x Kg. 1,208 = Kg. 181,20

Staffe

Ø 6 :

10 x 11 x 1,60 = ml. 176,00

ml. 176,00 x Kg. 0,222 = " 39,07

A Riportare

Kg. 220,27

Kg. 16.922,79

Riporto

Kg. 220,27 Kg. 16.922,79

Pil. 8-15-3-4-5-9-10-11-12-13-14

Ø 16 :

$$11 \times 6 \times 2,64 = \text{ml. } 174,24$$

$$\text{ml. } 174,24 \times \text{Kg. } 1,578 = " 274,95$$

Staffe

Ø 6 :

$$11 \times 10 \times 1,60 = \text{ml. } 176,00$$

$$\text{ml. } 176,00 \times \text{Kg. } 0,222 = \text{Kg. } 39,07$$

Pil. 21-22

Ø 14 :

$$2 \times 6 \times 2,50 = \text{ml. } 30,00$$

$$\text{ml. } 30,00 \times \text{Kg. } 1,208 = " 36,24$$

Staffe

Ø 6 :

$$2 \times 10 \times 1,40 = \text{ml. } 28,00$$

$$\text{ml. } 28,00 \times \text{Kg. } 0,222 = " 6,22$$

Pil. 16 - 17

Ø 14 :

$$2 \times 6 \times 2,50 = \text{ml. } 30,00$$

$$\text{ml. } 30,00 \times \text{Kg. } 1,208 = \text{Kg. } 36,24$$

Staffe

Ø 6 :

$$2 \times 13 \times 1,30 = \text{ml. } 33,80$$

$$\text{ml. } 33,80 \times \text{Kg. } 0,222 = " 7,50$$

Pil. A1 - A2

Ø 14 :

$$2 \times 6 \times 2,50 = \text{ml. } 30,00$$

$$\text{ml. } 30,00 \times \text{Kg. } 1,208 = " 36,24$$

Staffe

Ø 6 :

$$2 \times 15 \times 1,60 = \text{ml. } 48,00$$

$$\text{ml. } 48,00 \times \text{Kg. } 0,222 = " 10,66$$

SOMMARIO ELEMENTO 6B .....

" 667,39

Kg. 17.590,18

Riporto

Kg. 17.590,18

ELEMENTO 7B

\*\*\*\*\*

Pil. 1'-7'-18'-25'-2'-6'-19'

24'-20'-23'.=

Ø 14 :

10 x 6 x 2,52 = ml. 151,20

ml. 151,20 x Kg. 1,208 = Kg. 182,65

Staffe

Ø 6 :

10 x 11 x 1,60 = ml. 176,00

ml. 176,00 x Kg. 0,222 = " 39,07

Pil. 8'-15'-3'-4'-5'-9'-10'

11'-12'-13'-14'.=

Ø 16 :

11 x 6 x 2,66 = ml. 175,56

ml. 175,56 x Kg. 1,578 = " 277,03

Staffe

Ø 6 :

11 x 10 x 1,60 = ml. 176,00

ml. 176,00 x Kg. 0,222 = " 39,07

Pil. 21' - 22'.=

Ø 14 :

2 x 6 x 2,52 = ml. 30,24

ml. 30,24 x Kg. 1,208 = " 36,53

Staffe

Ø 6 :

2 x 10 x 1,40 = ml. 28,00

ml. 28,00 x Kg. 0,222 = " 6,22

Pil. 16'-17'.=

Ø 14 :

2 x 6 x 2,52 = ml. 30,24

ml. 30,24 x Kg. 1,208 = " 36,53

Staffe

Ø 6 :

2 x 13 x 1,30 = ml. 33,80

ml. 33,80 x Kg. 0,222 = " 7,50

A Riportare

Kg. 624,60

Kg. 17.590,18

Riporto

Kg. 624,60 Kg. 17.590,18

Pil. A1' - A2'

Ø 14 :

$$2 \times 6 \times 2,52 = \text{ml. } 30,24$$

$$\text{ml. } 30,24 \times \text{Kg. } 1,208 = " 36,53$$

Staffe

Ø 6 :

$$2 \times 15 \times 1,60 = \text{ml. } 48,00$$

$$\text{ml. } 48,00 \times \text{Kg. } 0,222 = " 10,66$$

S O M M A N O ELEMENTO 7B ..... " 671,79

Tratti longitudinali

Ø 16 :

$$2 \times 4 \times 13,07 = \text{ml. } 104,56$$

$$2 \times 2 \times 4 \times 7,07 = " 113,12$$

$$2 \times 4 \times 5,02 = " 40,16$$

$$2 \times 4 \times 2,92 = " 23,36$$

$$3 \times 2 \times 4 \times 8,42 = " 202,08$$

$$2 \times 4 \times 4,17 = " 33,36$$

$$\text{Sommano ml. } 516,64$$

$$\text{ml. } 516,64 \times \text{Kg. } 1,578 = \text{Kg. } 815,26$$

Staffe

Ø 8 :

$$2 \times 40 \times 1,64 = \text{ml. } 131,20$$

$$2 \times 2 \times 28 \times 1,64 = " 183,68$$

$$2 \times 20 \times 1,64 = " 65,60$$

$$2 \times 10 \times 1,64 = " 32,80$$

$$3 \times 2 \times 32 \times 1,64 = " 314,88$$

$$2 \times 15 \times 1,64 = " 49,20$$

$$\text{Sommano ml. } 777,36$$

$$\text{ml. } 777,36 \times \text{Kg. } 0,395 = " 307,06$$

Tratti trasversali

Ø 16 :

$$2 \times 3 \times 4 \times 6,72 = \text{ml. } 161,28$$

$$2 \times 4 \times 4 \times 8,27 = " 264,64$$

$$2 \times 4 \times 3,82 = " 30,56$$

$$\text{Sommano ml. } 456,48$$

$$\text{ml. } 456,48 \times \text{Kg. } 1,578 = " 720,32$$

A Riportare

Kg. 1.842,64 Kg. 18.261,97

= 66 =

Riporto

Kg. 1.842,64    Kg. 18.261,97

Staffe

Ø 8 :

2x3 x 25 x 1,64 = ml. 246,00

2x4 x 32 x 1,64 = " 419,84

2 x 15 x 1,64 = " 49,20

Sommano ml. 715,04  
=====

ml. 715,04 x Kg. 0,395 = " 282,44

" 2.125,08

S O M M A N O    ELEMENTO 6B e 7B ..... Kg. 20.387,05  
=====

Ferro omogeneo in opera  
sagomato per c. a. =

MISURE DEFINITIVE

PAL. A (ELEM. 8B - 9D - 10C)  
=====

Ferro per formazione travi  
rovesce.=

ELEMENTO 8 B

=====

Trave 1 - 7

Ø 20 :

|         |       |       |       |
|---------|-------|-------|-------|
| 3 x     | 9,90  | = ml. | 29,70 |
| 3 x     | 9,50  | = "   | 28,50 |
| 3 x     | 9,70  | = "   | 29,10 |
| 7 x 2 x | 2,80  | = "   | 39,20 |
| 3 x     | 10,75 | = "   | 32,25 |
| 3 x     | 9,70  | = "   | 29,10 |
| 3 x     | 9,80  | = "   | 29,40 |

Sommano ml. 217,25  
=====

ml. 217,25 x Kg. 2,466 = Kg. 535,74

Ø 18 :

|         |      |       |       |
|---------|------|-------|-------|
| 3 x     | 8,64 | = ml. | 25,92 |
| 4 x 3 x | 7,61 | = "   | 91,32 |
| 3 x     | 6,77 | = "   | 20,31 |

Sommano ml. 137,55  
=====

ml. 137,55 x Kg. 1,998 = " 274,82

Staffe

Ø 12 :

|       |      |       |        |
|-------|------|-------|--------|
| 103 x | 3,72 | = ml. | 383,16 |
| 103 x | 3,86 | = "   | 397,58 |

Sommano ml. 780,74  
=====

ml. 780,74 x Kg. 0,888 = " 693,30

Reggistaffe:

Ø 8 :

|     |       |       |       |
|-----|-------|-------|-------|
| 4 x | 22,04 | = ml. | 88,16 |
|-----|-------|-------|-------|

ml. 88,16 x Kg. 0,395 = " 34,82

TRAVE 1 - 7: S O M M A N O ..... Kg. 1.538,68

A Riportare

Kg. 1.538,68

Riporto

Kg. 1.538,68

TRAVE 8 - 13

Ø 20 :

|         |       |       |       |
|---------|-------|-------|-------|
| 3 x     | 9,90  | = ml. | 29,70 |
| 3 x     | 9,50  | = "   | 28,50 |
| 3 x     | 8,68  | = "   | 26,04 |
| 3 x     | 6,81  | = "   | 20,43 |
| 2 x 3 x | 7,65  | = "   | 45,90 |
| 6 x 2 x | 2,80  | = "   | 33,60 |
| 3 x     | 10,75 | = "   | 32,25 |
| 3 x     | 9,80  | = "   | 29,40 |

Sommano ml. 245,82

ml. 245,82 x Kg. 2,466 = Kg. 606,19

Ø 16 :

|         |      |       |       |
|---------|------|-------|-------|
| 2 x 3 x | 5,43 | = ml. | 32,58 |
| 3 x     | 9,66 | = "   | 28,98 |

Sommano ml. 61,56

ml. 61,56 x Kg. 1,578 = " 97,14

Staffe

Ø 12 :

|      |      |       |        |
|------|------|-------|--------|
| 96 x | 3,92 | = ml. | 376,32 |
| 96 x | 4,24 | = "   | 407,04 |

Sommano ml. 783,36

ml. 783,36 x Kg. 0,888 = " 695,62

Reggiastaffe:

Ø 8 :

|     |       |       |       |
|-----|-------|-------|-------|
| 4 x | 22,04 | = ml. | 88,16 |
|-----|-------|-------|-------|

ml. 88,16 x Kg. 0,395 = " 34,82

TRAVE 8 - 13: S O M M A N O ..... Kg. 1.433,77

TRAVE 14 - 16

Ø 20 :

|     |       |       |       |
|-----|-------|-------|-------|
| 3 x | 8,47  | = ml. | 25,41 |
| 3 x | 8,64  | = "   | 25,92 |
| 3 x | 10,17 | = "   | 30,51 |

Sommano ml. 81,84

ml. 81,84 x Kg. 2,466 = Kg. 201,82

Staffe

Ø 12 :

|      |      |       |        |
|------|------|-------|--------|
| 27 x | 3,72 | = ml. | 100,44 |
|------|------|-------|--------|

A Riportare ml. 100,44 Kg. 201,82 Kg. 2.972,45

Riporto ml. 100,44 Kg. 201,82 Kg. 2.972,45  
 27 x 3,86 = " 104,22  
 Sommano ml. 204,66  
 ml. 204,66 x Kg. 0,888 = " 181,74

Reggistaffe:

Ø 8 :

4 x 7,13 = ml. 28,52

ml. 28,52 x Kg. 0,395 = " 11,26

TRAVE 14 - 16: S O M M A N O ... " 394,82

TRAVE 19 - 21

Ø 20 :

3 x 8,22 = ml. 24,66

3 x 9,35 = " 28,05

Sommano ml. 52,71

ml. 52,71 x Kg. 2,466 = Kg. 129,98

Ø 18 :

3 x 8,46 = ml. 25,38

ml. 25,38 x Kg. 1,998 = " 50,71

Staffe

Ø 12:

26 x 3,72 = ml. 96,72

26 x 3,86 = " 100,36

Sommano ml. 249,79

ml. 249,79 x Kg. 0,888 = " 221,81

Reggistaffe:

Ø 8 :

4 x 6,94 = ml. 27,76

ml. 27,76 x Kg. 0,395 = " 10,96

TRAVE 19 - 21 S O M M A N O .... " 413,46

TRAVE 22 - 25

Ø 20 :

2 x 3 x 6,45 = ml. 38,70

4 x 2 x 2,80 = " 22,40

2 x 3 x 6,10 = " 36,60

Sommano ml. 97,70

ml. 97,70 x Kg. 2,466 = Kg. 240,93

A Riportare Kg. 240,93 Kg. 3.780,73

= 70 =

Kg. 240,93 Kg. 3.780,73

Ø 18 :

2 x 3 x 5,51 = ml. 33,06  
2 x 7,04 = " 14,08  
2 x 3 x 8,66 = " 51,96

Sommano ml. 99,10  
=====

ml. 99,10 x Kg. 1,998 = " 393,21

Staffe

Ø 12 :

49 x 3,72 = ml. 182,28  
49 x 3,86 = " 189,14

Sommano ml. 371,42  
=====

ml. 371,42 x Kg. 0,888 = Kg. 329,82

Reggistaiffe:

Ø 8 :

4 x 11,51 = ml. 46,04  
=====

ml. 46,04 x Kg. 0,395 = " 18,19

TRAVE 22 - 25: S O M M A N O ..... Kg. 982,15

TRAVI 16-22 e 19-25

Ø 12 :

2 x 3 x 4,04 = ml. 24,24  
2 x 3 x 5,74 = " 34,44

staffe:

2 x 14 x 3,86 = " 108,08

Sommano ml. 166,76  
=====

ml. 166,76 x Kg. 0,888 = Kg. 148,08

Staffe

Ø 8 :

2 x 6 x 3,64 = ml. 43,68  
=====

ml. 43,68 x Kg. 0,395 = " 17,25

Reggistaiffe

Ø 8 :

2 x 4 x 2,86 = ml. 22,88  
=====

ml. 22,88 x Kg. 0,395 = " 9,04

TRAVI 16-22 e 19-25: S O M M A N O " 174,37

A Riportare

Kg. 4.937,25

Ripporto

Kg. 4.937,25

TRAVE 1 - 14

Ø 20 :

|     |       |       |       |
|-----|-------|-------|-------|
| 4 x | 12,65 | = ml. | 50,60 |
| 3 x | 9,37  | = "   | 28,11 |
| 5 x | 9,94  | = "   | 49,70 |
| 4 x | 8,40  | = "   | 33,60 |
| 4 x | 9,15  | = "   | 36,60 |

Sommano ml. 198,61

ml. 198,61 x Kg. 2,466 = Kg. 489,77

Staffe

Ø 12 :

|      |      |       |        |
|------|------|-------|--------|
| 64 x | 3,72 | = ml. | 238,08 |
| 75 x | 3,64 | = "   | 273,00 |

Sommano ml. 511,08

ml. 511,08 x Kg. 0,888 = " 453,84

Reggistaffe

Ø 8 :

|     |       |       |       |
|-----|-------|-------|-------|
| 4 x | 11,31 | = ml. | 45,24 |
|-----|-------|-------|-------|

ml. 45,24 x Kg. 0,395 = " 17,87

TRAVE 1 - 14: S O M M A N O ..... " 961,48

TRAVE 7 - 21

Ø 20 :

|     |       |       |       |
|-----|-------|-------|-------|
| 4 x | 12,65 | = ml. | 50,60 |
| 2 x | 9,37  | = "   | 18,74 |
| 4 x | 9,94  | = "   | 39,76 |
| 4 x | 8,40  | = "   | 33,60 |
| 4 x | 9,15  | = "   | 36,60 |

Sommano ml. 179,30

ml. 179,30 x Kg. 2,466 = Kg. 442,15

Staffe:

Ø 12 :

|      |      |       |        |
|------|------|-------|--------|
| 48 x | 3,72 | = ml. | 178,56 |
| 56 x | 3,19 | = "   | 178,64 |

Sommano ml. 357,20

ml. 357,20 x Kg. 0,888 = " 317,19

A Riportare

Kg. 759,34

Kg. 5.898,73

= 72 =

Riporto

Kg. 759,34

Kg. 5.898,73

Reggistaffe:

Ø 8 :

4 x 11,31 = ml. 45,24

ml. 45,24 x Kg. 0,395 = " 17,87

TRAVE 7 - 21: S O M M A N O .....

" 777,21

TRAVI 23-28 e 24-29

Ø 16 :

2 x 4 x 9,37 = ml. 74,96

2 x 4 x 11,07 = " 88,56

Sommano ml. 163,52

ml. 163,52 x Kg. 1,578 = Kg. 258,03

Staffe:

Ø 12 :

2 x 40 x 3,86 = ml. 308,80

2 x 32 x 3,72 = " 238,08

Sommano ml. 546,88

ml. 546,88 x Kg. 0,888 = " 485,63

Reggistaffe:

Ø 8 :

2 x 4 x 8,11 = ml. 64,88

ml. 64,88 x Kg. 0,395 = " 25,63

TRAVI 23-28 e 24-29: S O M M A N O ....

" 769,29

TRAVI A1 - A2

Ø 12 :

3 x 3,44 = ml. 10,32

3 x 4,54 = " 13,62

Sommano ml. 23,94

ml. 23,94 x Kg. 0,888 = Kg. 21,26

Staffe

Ø 8 :

8 x 3,44 = ml. 27,52

ml. 27,52 x Kg. 0,395 = " 10,87

TRAVI A1 - A2: S O M M A N O .....

" 32,13

A Riportare

Kg. 7.477,36

Kg. 7.477,36

TRAVI A3 e A4

Ø 12 :

$$3 \times 4,64 = \text{ml. } 13,92$$

$$3 \times 6,24 = \text{" } 18,72$$

$$\text{Sommano ml. } 32,64$$

$$\text{ml. } 32,64 \times \text{Kg. } 0,888 = \text{Kg. } 28,98$$

Staffe

Ø 8 :

$$8 \times 3,44 = \text{ml. } 27,52$$

$$\text{ml. } 27,52 \times \text{Kg. } 0,395 = \text{" } 10,87$$

$$\text{TRAVI A3 e A4 : SOMMANO ..... " } 39,85$$

TRAVI A1 - A3 e A2 - A4

Ø 12:

$$2 \times 3 \times 4,74 = \text{ml. } 28,44$$

$$2 \times 3 \times 6,34 = \text{" } 38,04$$

$$\text{Sommano ml. } 66,48$$

$$\text{ml. } 66,48 \times \text{Kg. } 0,888 = \text{Kg. } 59,03$$

Staffe

Ø 8 :

$$2 \times 8 \times 3,44 = \text{ml. } 55,04$$

$$\text{ml. } 55,04 \times \text{Kg. } 0,395 = \text{" } 21,74$$

$$\text{TRAVI A1 - A3 e A2 - A4: SOMMANO ..... " } 80,77$$

Staffe trave vano

ascensore :

Ø 8 :

$$17 \times 2,43' = \text{ml. } 41,38$$

$$17 \times 5,39 = \text{" } 91,63$$

$$\text{Sommano ml. } 133,01$$

$$\text{ml. } 133,01 \times \text{Kg. } 0,395 = \text{Kg. } 52,54$$

$$\text{STAFFE TRAVI VANO ASCENSORE: SOMMANO .... " } 52,54$$

Staffe longitudinali

vano ascensore.=

Ø 8 :

$$17 \times 5,49 = \text{ml. } 93,33$$

$$\text{A Riportare ml. } 93,33$$

$$\text{Kg. } 7.650,52$$

|                                             |     |        |       |     |          |
|---------------------------------------------|-----|--------|-------|-----|----------|
| Riporto                                     | ml. | 93,33  |       | Kg. | 7.650,52 |
| 17 x 2,43                                   | =   | "      | 41,31 |     |          |
| Sommano                                     | ml. | 134,64 |       |     |          |
|                                             |     | =====  |       |     |          |
| ml. 134,64 x Kg. 0,395                      | =   | Kg.    | 53,18 |     |          |
| STAFFE LONGITUDINALI VANO ASCENSORE SOMMANO | "   |        |       |     | 53,18    |

Reggistaffe

Ø 8 :

|                                          |                     |       |       |     |          |
|------------------------------------------|---------------------|-------|-------|-----|----------|
| 4 x 3,36                                 | =                   | ml.   | 13,44 |     |          |
| 4 x 4,46                                 | =                   | "     | 17,84 |     |          |
| Sommano                                  | ml.                 | 31,28 |       |     |          |
|                                          |                     | ===== |       |     |          |
| ml. 31,28 x Kg. 0,395                    | =                   | Kg.   | 12,35 |     |          |
| REGGISTAFFE VANO ASCENSORE: SOMMANO .... | "                   |       |       |     | 12,35    |
|                                          |                     |       |       |     | =====    |
| ELEMENTO 8B :                            | S O M M A N O ..... |       |       | Kg. | 7.716,05 |

ELEMENTO 9D

TRAVI 1-5 e 5-9

Ø 20 :

|              |     |        |       |
|--------------|-----|--------|-------|
| 2 x 3 x 9,68 | =   | ml.    | 58,08 |
| 2 x 3 x 9,97 | =   | "      | 59,82 |
| 9 x 2 x 2,80 | =   | "      | 50,40 |
| 2 x 3 x 9,98 | =   | "      | 59,88 |
| 2 x 3 x 9,97 | =   | "      | 59,82 |
| Sommano      | ml. | 288,00 |       |
|              |     | =====  |       |

ml. 288,00 x Kg. 2,466 = Kg. 710,21

Ø 18 :

|                 |     |        |       |
|-----------------|-----|--------|-------|
| 2 x 2 x 6,77    | =   | ml.    | 27,08 |
| 2x 2 x 3 x 7,58 | =   | "      | 90,96 |
| 2 x 3 x 7,64    | =   | "      | 45,84 |
| Sommano         | ml. | 163,88 |       |
|                 |     | =====  |       |

ml. 163,88 x Kg. 1,998 = " 327,43

Staffe

Ø 12 :

|            |     |          |        |
|------------|-----|----------|--------|
| 134 x 3,72 | =   | ml.      | 498,48 |
| 134 x 3,86 | =   | "        | 517,24 |
| Sommano    | ml. | 1.015,72 |        |
|            |     | =====    |        |

ml. 1.015,72 x Kg. 0,888 = " 901,96

A Riportare

Kg. 1.939,60

Kg. 7.716,05

= 75 =

Kg. 1.939,60      Kg. 7.716,05

Reggistaffe:

Ø 8 :

4 x 27,44 = ml. 110,96

ml. 110,96 x Kg. 0,395 = " 43,83

TRAVI 1-5 e 5-9: SOMMANO      Kg. 1.983,43

Ferro per formazione  
travi rovesce.=

TRAVI 10 A1/A3 e A2/A4 - 17

Ø 20 :

2 x 3 x 9,70 = ml. 58,20

2 x 3 x 6,94 = " 41,64

2 x 3 x 7,54 = " 45,24

3x2 x 2 x 2,80 = " 33,60

2 x 3 x 10,00 = " 60,00

Sommano ml. 238,68

ml. 238,68 x Kg. 2,466 = " 588,58

Ø 18 :

2 x 3 x 8,92 = ml. 53,52

2 x 3 x 7,28 = " 43,68

2 x 3 x 9,24 = " 55,44

Sommano ml. 152,64

ml. 152,64 x Kg. 1,998 = " 304,97

Ø 16 :

2 x 2 x 4,61 = ml. 18,44

ml. 18,44 x Kg. 1,578 = " 29,10

Staffe:

Ø 12 :

127 x 4,24 = ml. 538,48

127 x 3,92 = " 497,84

Sommano ml. 1.036,32

ml. 1.036,32 x Kg. 0,888 = " 920,25

Reggistaffe

Ø 8 :

4 x 27,74 = ml. 110,96

ml. 110,96 x Kg. 0,395 = " 43,83

TRAVI 10-A1/A3 e A2/A4-17: SOMM.      Kg. 1.886,73

A Riportare

Kg. 3.870,16      Kg. 7.716,05

= 76 =

Kg. 3.870,16      Kg. 7.716,05

TRAVI 18-20 e 23-25

Ø 20 :

|           |      |       |       |
|-----------|------|-------|-------|
| 2 x 4 x   | 6,96 | = ml. | 55,68 |
| 2 x 4 x   | 7,01 | = "   | 56,08 |
| 2 x 3 x   | 7,70 | = "   | 46,20 |
| 2 x 3 x   | 9,30 | = "   | 55,80 |
| 2 x 2 x   | 2,40 | = "   | 9,60  |
| 2x2 x 2 x | 2,80 | = "   | 22,40 |
| 2 x 4 x   | 5,86 | = "   | 46,88 |
| 2 x 4 x   | 7,66 | = "   | 61,28 |

Sommano ml. 353,92

ml. 353,92 x Kg. 2,466 = " 872,77

Staffe

Ø 12 :

|          |      |       |        |
|----------|------|-------|--------|
| 2 x 39 x | 3,72 | = ml. | 290,16 |
| 2 x 39 x | 3,86 | = "   | 301,08 |

Sommano ml. 591,24

ml. 591,24 x Kg. 0,888 = " 525,02

Reggistaffe:

Ø 8 :

|         |      |       |       |
|---------|------|-------|-------|
| 2 x 4 x | 8,88 | = ml. | 71,04 |
|---------|------|-------|-------|

ml. 71,04 x Kg. 0,395 = " 28,06

TRAVI 18-20 e 23-25: SOMMANO      Kg. 1.425,85

TRAVE 26 - 29

Ø 20 :

|         |      |       |       |
|---------|------|-------|-------|
| 2 x 4 x | 7,35 | = ml. | 58,80 |
| 4 x 2 x | 2,80 | = "   | 22,40 |
| 2 x 4 x | 9,01 | = "   | 72,08 |
| 2 x 4 x | 8,20 | = "   | 65,60 |

Sommano ml. 218,88

ml. 218,88 x Kg. 2,466 = " 539,76

Ø 18 :

|         |      |       |       |
|---------|------|-------|-------|
| 2 x 3 x | 5,51 | = ml. | 33,06 |
| 2 x     | 7,04 | = "   | 14,08 |

Sommano ml. 47,14

ml. 47,14 x Kg. 1,998 = " 94,18

A Riportare

Kg. 5.633,94

Kg. 7.716,05

|                      |             |        |              |              |
|----------------------|-------------|--------|--------------|--------------|
|                      | Riporto     |        | Kg. 633,94   | Kg. 7.716,05 |
| Staffe               |             |        |              |              |
| Ø 12 :               |             |        |              |              |
| 56 x 3,72            | = ml.       | 208,32 |              |              |
| 56 x 3,86            | = "         | 216,16 |              |              |
| Sommano              | ml.         | 424,48 |              |              |
| ml. 424,48           | x Kg. 0,888 | = "    | 376,94       |              |
| Reggistaffe          |             |        |              |              |
| Ø 8 :                |             |        |              |              |
| 4 x 12,87            | = ml.       | 51,48  |              |              |
| ml. 51,48            | x Kg. 0,395 | = "    | 20,33        |              |
| TRAVE 26-29: SOMMANO |             |        | Kg. 1.031,21 |              |

ELEMENTO 9D

\*\*\*\*\*

TRAVI 20-26 e 23-29

|               |             |        |        |  |
|---------------|-------------|--------|--------|--|
| Ø 12 :        |             |        |        |  |
| 2 x 3 x 4,04  | = ml.       | 24,24  |        |  |
| 2 x 3 x 5,74  | = "         | 34,44  |        |  |
| Staffe:       |             |        |        |  |
| 2 x 6 x 3,72  | = "         | 44,64  |        |  |
| 2 x 14 x 3,86 | = "         | 108,08 |        |  |
| Sommano       | ml.         | 211,40 |        |  |
| ml. 211,40    | x Kg. 0,888 | = Kg.  | 187,72 |  |
| Reggistaffe:  |             |        |        |  |
| 2 x 4 x 2,86  | = ml.       | 22,88  |        |  |
| ml. 22,88     | x Kg. 0,395 | = "    | 9,04   |  |

TRAVI 1-18 e 9-25

Idem sviluppi della partita  
del ferro della trave 7-21  
reg. a Pag; di questo L.M.

$$2(442,15 + 317,19 + 17,87) = " 1.554,42$$

TRAVI 27-32 e 28-33

Idem sviluppi della partita  
del ferro della Trave 23-28 e  
24-29 reg. a pag. di questo L.M.  
(Kg. 258,03 + 485,63 + 25,63)

$$= " 769,29$$

A Riportare

Kg. 2.520,47

Kg. 7.716,05

= 73 =

Kg. 2.520,47      Kg. 7.716,05

TRAVE A1 - A2

Idem sviluppi della partita del  
ferro della trave A1-A2 dell'Ele  
mento 8B reg. a pag. di questo L.M.

(Kg. 21,26 + 10,87)      = Kg. 32,13

Idem sviluppi della partita del  
ferro della trave A3-A4 dell'Elem.  
8B reg. a pag. di questo L.M.

(Kg. 28,98 + Kg. 10,87)      = " 39,85

TRAVI A1-A3 e A2-A4

Idem sviluppi della partita del  
ferro delle travi A1-A3 e A2-A4  
dell'Elem. 8B reg. a pag. di  
questo L.M.

(Kg. 59,03 + 21,74 + 52,54 +  
+ 53,18 + 12,35)      = " 198,84

ELEMENTO 9 D :      S O M M A N O .....      " 9.118,51

ELEMENTO 10 C

\*\*\*\*\*

TRAVE 1 - 8

Ø 20 :

|         |       |       |       |
|---------|-------|-------|-------|
| 3 x     | 9,78  | = ml. | 29,34 |
| 2 x 3 x | 9,96  | = "   | 59,76 |
| 3 x     | 6,75  | = "   | 20,25 |
| 2 x     | 2,40  | = "   | 4,80  |
| 7 x 2 x | 2,80  | = "   | 39,20 |
| 3 x     | 10,08 | = "   | 30,24 |
| 2 x 3 x | 9,96  | = "   | 59,76 |
| 3 x     | 7,60  | = "   | 22,80 |

Sommano ml. 266,15

ml. 266,15 x Kg. 2,466      = Kg. 656,32

Ø 18 :

|         |      |       |        |
|---------|------|-------|--------|
| 3 x     | 6,87 | = ml. | 20,61  |
| 5 x 3 x | 7,52 | = "   | 112,80 |
| 3 x     | 8,79 | = "   | 26,37  |

Sommano ml. 159,78

ml. 159,78 x Kg. 1,998      = " 319,24

A Riportare

Kg. 975,56      Kg. 16.834,56

= 79 =

Riporto

Kg. 975,56

Kg. 16.834,56

TRAVI 1 - 8

Staffe

Ø 12:

120 x 3,72 = ml. 446,40

120 x 3,86 = " 463,20

Sommano ml. 909,60

ml. 909,60 x Kg. 0,888 = " 807,72

Reggistaffe

Ø 8 :

4 x 25,44 = ml. 101,76

ml. 101,76 x Kg. 0,395 = " 40,19

TRAVI 9 - 14

Ø 20 :

3 x 9,91 = ml. 29,73

2 x 3 x 7,14 = " 42,84

3 x 10,26 = " 30,78

3 x 6,91 = " 20,73

4 x 3 x 7,60 = " 91,20

3 x 8,83 = " 26,49

2 x 2,40 = " 4,80

7 x 2 x 2,80 = " 39,20

3 x 6,70 = " 20,10

2 x 3 x 9,60 = " 57,60

3 x 7,60 = " 22,80

Sommano ml. 386,27

ml. 386,27 x Kg. 2,466 = " 952,54

Ø 16 :

3 x 5,18 = ml. 15,54

ml. 15,54 x Kg. 1,578 = " 24,52

Staffe

Ø 12 :

113 x 4,24 = ml. 479,12

113 x 3,92 = " 442,96

Sommano ml. 922,08

ml. 922,08 x Kg. 0,888 = " 818,81

Reggistaffe

Ø 8 :

4 x 25,44 = ml. 101,76

ml. 101,76 x Kg. 0,395 = " 40,19

A Riportare

Kg. 3.659,53

Kg. 16.834,56

= 80 =

Riporto

Kg. 3.659,53

Kg. 16.834,56

TRAVI 15 - 17

Ø 20 :

3 x 6,40 = ml. 19,20

3 x 6,70 = " 20,10

Sommano ml. 39,30

ml. 39,30 x Kg. 2,466 = " 96,91

Ø 18 :

3 x 6,25 = ml. 18,75

3 x 6,87 = " 20,61

2 x 8,23 = " 16,46

3 x 6,86 = " 20,58

Sommano ml. 76,40

ml. 76,40 x Kg. 1,998 = " 152,65

Staffe

Ø 12:

33 x 3,72 = ml. 122,76

33 x 3,86 = " 127,38

Sommano ml. 250,14

ml. 250,14 x Kg. 0,888 = " 222,12

Reggistaffe

Ø 8 :

4 x 7,56 = ml. 30,24

ml. 30,24 x Kg. 0,395 = " 11,94

TRAVI 20 - 22

Ø 20 :

3 x 6,65 = ml. 19,95

3 x 7,50 = " 22,50

Sommano ml. 42,45

ml. 42,45 x Kg. 2,466 = " 104,68

Ø 18 :

3 x 6,25 = ml. 18,75

2 x 8,23 = " 16,46

3 x 8,67 = " 26,01

3 x 7,06 = " 21,18

Sommano ml. 82,40

ml. 82,40 x Kg. 1,998 = " 164,63

A Riportare

Kg. 4.412,46

Kg. 16.834,56

Riporto

Kg. 4.412,46

Kg. 16.834,56

TRAVI 20 - 22

Staffe

Ø 12 :

33 x 3,72 = ml. 122,76

33 x 3,86 = " 127,38

Sommano ml. 250,14

ml. 250,14 x Kg. 0,888 = " 222,12

Reggistaffe

Ø 8 :

4 x 8,36 = ml. 33,44

ml. 33,44 x Kg. 0,395 = " 13,20

TRAVI 23 - 26

Ø 20 :

2 x 4 x 7,12 = ml. 56,96

2 x 3 x 8,83 = " 52,98

2 x 4 x 7,77 = " 62,16

Sommano ml. 172,10

ml. 172,10 x Kg. 2,466 = " 424,40

Ø 18 :

2 x 3 x 5,51 = ml. 33,06

2 x 7,04 = " 14,08

Sommano ml. 47,14

ml. 47,14 x Kg. 1,998 = " 94,18

Staffe

Ø 12 :

54 x 3,72 = ml. 200,88

54 x 3,86 = " 208,44

Sommano ml. 409,32

ml. 409,32 x Kg. 0,888 = " 363,48

Reggistaffe

Ø 8 :

4 x 12,46 = ml. 49,48

ml. 49,48 x Kg. 0,395 = " 19,69

TRAVI 17-23 e 20-26

Ø 12 :

3 x 4,04 = ml. 12,12

3 x 5,74 = " 17,22

A Riportare ml. 29,34 Kg. 5.549,53 Kg. 16.834,56

|         |         |       |     |          |     |           |
|---------|---------|-------|-----|----------|-----|-----------|
| Riporto | ml.     | 29,34 | Kg. | 5.549,53 | Kg. | 16.834,56 |
| Staffe: |         |       |     |          |     |           |
| 6 x     | 3,72    | = "   |     | 22,32    |     |           |
| 13 x    | 3,86    | = "   |     | 50,18    |     |           |
|         | Sommano | ml.   |     | 101,84   |     |           |
|         |         |       |     | =====    |     |           |
| ml.     | 101,84  | x     | Kg. | 0,888    | = " | 90,43     |

## Reggistaffe

Ø 8 :

|     |      |       |       |
|-----|------|-------|-------|
| 4 x | 2,86 | = ml. | 11,44 |
|     |      |       | ===== |

TRAVI 1-15

Idem sviluppi della partita del ferro della trave 7-21:

|                           |     |        |
|---------------------------|-----|--------|
| (Kg. 442,15+317,19+17,87) | = " | 777,21 |
|---------------------------|-----|--------|

TRAVI 8 - 22

Idem sviluppi della partita del ferro della trave 1-14:

|                           |     |        |
|---------------------------|-----|--------|
| (Kg. 489,77+453,84+17,87) | = " | 961,58 |
|---------------------------|-----|--------|

TRAVI 24-29 e 25+30

Idem sviluppi della partita del ferro delle travi 23-28 e 24-29

|                           |     |        |
|---------------------------|-----|--------|
| (Kg. 258,03+485,63+25,63) | = " | 769,29 |
|---------------------------|-----|--------|

TRAVI A1 - A2

Idem sviluppi della partita del ferro della trave A1-A2 :

|                   |     |       |
|-------------------|-----|-------|
| Kg. 21,26 + 10,87 | = " | 32,13 |
|-------------------|-----|-------|

TRAVE A3 - A4

Idem sviluppi della partita del ferro A3 e A4 :

|                     |     |       |
|---------------------|-----|-------|
| (Kg. 28,98 + 10,87) | = " | 39,85 |
|---------------------|-----|-------|

TRAVI A1-A3 e A2-A4

Idem sviluppi della partita del ferro A1-A3 e A2-A4:

|                     |     |       |
|---------------------|-----|-------|
| (Kg. 59,03 + 21,74) | = " | 80,77 |
|---------------------|-----|-------|

Staffe trasversali e long.

vano ascensore e reggistaffe:

|                         |     |        |
|-------------------------|-----|--------|
| (Kg. 52,54+53,18+12,35) | = " | 118,07 |
|-------------------------|-----|--------|

|               |                     |     |          |
|---------------|---------------------|-----|----------|
| S O M M A N O | ELEMENTO 10 C ..... | Kg. | 8.423,27 |
|---------------|---------------------|-----|----------|

|             |                               |     |           |
|-------------|-------------------------------|-----|-----------|
| T O T A L E | ELEM. 8B - 9D - 10C a riport. | Kg. | 25.257,83 |
|-------------|-------------------------------|-----|-----------|

Riporto

Kg. 25.257,83

Ferro per formazione spezzoni pilastri  
Pal. A (Elemento 8B - 9D - 10C)

MISURE DEFINITIVE

ELEMENTO 8 B

\*\*\*\*\*

Pil. 1-7-14-21-22-25

Ø 14:

$$6 \times 6 \times 2,86 = \text{ml. } 102,96$$

$$\text{ml. } 102,96 \times \text{Kg. } 1,208 = \text{Kg. } 124,37$$

Staffe:

Ø 6 :

$$6 \times 14 \times 1,60 = \text{ml. } 134,40$$

$$\text{ml. } 134,40 \times \text{Kg. } 0,222 = " 29,84$$

Pil. 2-3-4-5-6-28-29-15-16-19-20-8-13

Ø 16 :

$$13 \times 6 \times 3,00 = \text{ml. } 234,00$$

$$\text{ml. } 234,00 \times \text{Kg. } 1,578 = " 369,25$$

Staffe

Ø 6 :

$$13 \times 12 \times 1,60 = \text{ml. } 249,60$$

$$\text{ml. } 249,60 \times \text{Kg. } 0,222 = " 55,41$$

Pil. 9-10-11-12

Ø 16 :

$$4 \times 8 \times 3,00 = \text{ml. } 96,00$$

$$\text{ml. } 96,00 \times \text{Kg. } 1,578 = " 151,49$$

Staffe:

Ø 6 :

$$404 \times 12 \times 1,60 = \text{ml. } 76,80$$

$$\text{ml. } 76,80 \times \text{Kg. } 0,222 = " 17,05$$

Pil. 23-24-17-18-26-27

Ø 16 ;

$$6 \times 6 \times 3,00 = \text{ml. } 108,00$$

$$\text{ml. } 108,00 \times \text{Kg. } 1,578 = " 170,42$$

Staffe Ø 6:

$$6 \times 16 \times 1,72 = \text{ml. } 165,12$$

$$\text{ml. } 165,12 \times \text{Kg. } 0,222 = " 36,66$$

A Riportare

Kg. 954,52

Kg. 25.257,83

= 84 =

Riporto

Kg. 954,49 Kg. 25.257,83

Pil.A1-A2-A3-A4

Ø 14 :

4 x 6 x 2,86 = ml. 68,64

ml. 68,64 x Kg. 1,208 = " 82,92

Staffe:

Ø 6 :

4 x 19 x 1,40 = ml. 10,00

ml. 10,00 x Kg. 0,222 = " 23,62

S O M M A N O ELEM. 8 B ..... " 1.061,03

ELEMENTO 9 D

.....

Pil.1-9-18-25-20-23-26-

29-10-17.=

Ø 14:

10 x 6 x 2,65 = ml. 159,00

ml. 159,00 x Kg. 1,208 = Kg. 192,07

Staffe

Ø 6 :

10 x 12x 1,60 = ml. 192,00

ml. 192,00 x Kg. 0,617 = " 118,46

Pil.2-3-4-5-6-7-8-32-33

11-12-13-14-15-16.=

Ø 16 :

15 x 6 x 2,79 = ml. 251,10

ml. 215,10 x Kg. 1,578 = Kg. 396,23

Staffe:

Ø 6 :

15 x 11 x 1,60 = Kg. 264,00

ml. 264,00 x Kg. 0,222 = " 58,61

Pilastrì 19-24

Ø 16 :

2 x 8 x 2,79 = ml. 44,64

ml. 44,64 x Kg. 1,578 = " 70,44

Staffe

Ø 6 :

2 x 11 x 1,80 = ml. 39,60

ml. 39,60 x Kg. 0,222 = " 8,79

A Riportare

Kg. 844,60 Kg. 26.318,86

= 85 =

Riporto

Kg. 844,60 Kg. 26.318,86

Pil. 21-22-27-28-30-31

Ø 16:

6 x 6 x 2,79 = ml. 100,44

ml. 100,44 x Kg. 1,578 = " 158,49

Staffe

Ø 6:

6 x 10 x 1,72 = ml. 185,76

ml. 185,76 x Kg. 0,222 = " 41,24

Pil. A1-A2-A3-A4

Ø 14:

4 x 6 x 2,65 = ml. 63,60

ml. 63,60 x Kg. 1,208 = " 76,83

Staffe

Ø 6:

4 x 17 x 1,40 = ml. 95,20

ml. 95,20 x Kg. 0,222 = " 21,13

S O M M A N O ELEMENTO 9 D ..... Kg. 1.142,47

ELEMENTO 10 C

Pil. 1-8-15-22-23-26

Ø 14:

6 x 6 x 2,64 = ml. 88,56

ml. 88,56 x Kg. 1,208 = Kg. 106,98

Staffe

Ø 6:

6 x 12 x 1,60 = ml. 115,20

ml. 115,20 x Kg. 0,222 = " 25,57

Pil. 2-3-4-5-6-7-27-

30-9-14.=

Ø 16:

10 x 6 x 2,80 = ml. 168,00

ml. 168,00 x Kg. 1,578 = " 265,10

Staffe

Ø 6:

10 x 10 x 1,60 = ml. 160,00

ml. 160,00 x Kg. 0,222 = " 35,52

A Riportare

Kg. 433,17 Kg. 27.461,33

= 86 =

Riporto

Kg.= Kg. 433,17 Kg. 27.461,33

Pil. 10-11-12-13-16-  
17-20-21.=

Ø 16 :

8 x 8 x 2,80 = ml. 179,20

ml. 179,20 x Kg. 1,578 = " 282,78

Staffe

Ø 6 :

8 x 10 x 1,60 = ml. 128,00

ml. 128,00 x Kg. 0,222 = " 28,42

Pil. 18-19-24-25-27-28

Ø 16 :

6 x 6 x 2,80 = ml. 100,80

ml. 100,80 x Kg. 1,578 = " 159,06

Staffe

Ø 6 :

6 x 15 x 1,72 = ml. 154,80

ml. 154,80 x Kg. 0,222 = " 34,36

Pil. A1-A2-A3-A4

Ø 14 :

4 x 6 x 2,64 = ml. 63,36

ml. 63,36 x Kg. 1,208 = " 76,54

Staffe

Ø 6 :

4 x 17 x 1,60 = ml. 108,80

ml. 108,80 x Kg. 0,222 = " 24,15

S O M M A N O ELEMENTO 10 C ..... Kg. 1.038,48

Ferro per formazione travi porta  
muratura.=

ELEMENTO 8B e 10 C  
.....

Travi longitudinali

Ø 14 :

2x2 x 6 x 4,68 = ml. 112,32

ml. 112,32 x Kg. 1,208 = Kg. 135,68

A Riportare

Kg. 135,68

Kg. 28.499,81

= 87 =

|                                |                   |        |     |           |
|--------------------------------|-------------------|--------|-----|-----------|
| Riporto                        | Kg.               | 135,68 | Kg. | 28.499,81 |
| 2 x 2 x 17 x 1,84 = ml. 125,12 |                   |        |     |           |
| ml. 125,12 x Kg. 0,395         | = "               | 49,42  |     |           |
| Ø 14                           |                   |        |     |           |
| 2 x 6 x 7,88' = ml. 94,56      |                   |        |     |           |
| ml. 94,56 x Kg. 1,208          | = "               | 114,23 |     |           |
| Staffe                         |                   |        |     |           |
| Ø 8 :                          |                   |        |     |           |
| 2 x 35 x 1,84 = ml. 128,80     |                   |        |     |           |
| ml. 128,80 x Kg. 0,395         | = "               | 50,88  |     |           |
| S O M M A N O                  | ELEMENTO 8B e 10C | .....  | "   | 350,21    |

ELEMENTO 9D

\*\*\*\*\*

Travi longitudinali

|                           |       |       |  |  |
|---------------------------|-------|-------|--|--|
| Ø 14 :                    |       |       |  |  |
| 3 x 6 x 4,48 = ml. 80,64  |       |       |  |  |
| ml. 80,64 x Kg. 1,208     | = Kg. | 97,41 |  |  |
| Staffe                    |       |       |  |  |
| Ø 8 :                     |       |       |  |  |
| 3 x 17 x 1,84 = ml. 93,84 |       |       |  |  |
| ml. 93,84 x Kg. 0,395     | = "   | 37,07 |  |  |
| Ø 14 :                    |       |       |  |  |
| 2 x 6 x 6,58 = ml. 78,96  |       |       |  |  |
| ml. 78,96 x Kg. 1,208     | = "   | 95,38 |  |  |
| Staffe                    |       |       |  |  |
| Ø 8 :                     |       |       |  |  |
| 2 x 27 x 1,84 = ml. 99,36 |       |       |  |  |
| ml. 99,36 x Kg. 0,395     | = "   | 39,25 |  |  |

Travi trasversali:

|                            |             |            |               |  |
|----------------------------|-------------|------------|---------------|--|
| Ø 14 :                     |             |            |               |  |
| 2 x 6 x 7,88 = ml. 94,56   |             |            |               |  |
| ml. 94,56 x Kg. 1,208      | = "         | 114,23     |               |  |
| Staffe                     |             |            |               |  |
| Ø 8 :                      |             |            |               |  |
| 2 x 35 x 1,84 = ml. 128,80 |             |            |               |  |
| ml. 128,80 x Kg. 0,395     | = "         | 50,88      |               |  |
| Ø 14 :                     | A Riportare | Kg. 434,22 | Kg. 28.850,02 |  |

= 88 =

Riporto

Kg.

434,22

Kg. 28.850,02

Ø 14 :

2 x 6 x 3,48 = ml. 41,76

ml. 41,76 x Kg. 1,208 = " 5,01

Staffe

Ø 8 :

2 x 10 x 1,84 = ml. 36,80

ml. 36,80 x Kg. 0,395 = " 14,54

SOMMANO ELEMENTO 9 D .....

" 453,77

T O T A L E ELEMENTO 8B - 9D - 10E ....

Kg. 29.303,79

=====

Ferro in opera sagomato  
per cemento armato. =

MISURE DEFINITIVE  
=====

PAL. (ELEM. 2C - 3D)

Ferro per formazione  
travi rovesce. =

ELEMENTO 2C  
888\*\*\*\*\*

TRAVE 1 - 1'

Ø 14 :

|               |       |       |
|---------------|-------|-------|
| 2 x 3 x 10,03 | = ml. | 60,18 |
| 2 x 1 x 5,23  | = "   | 10,46 |
| 2 x 3 x 8,38  | = "   | 50,28 |
| 2 x 3 x 10,03 | = "   | 60,18 |
| 2 x 1 x 5,23  | = "   | 10,46 |
| 3 x 2 x 6,79  | = "   | 40,74 |
| 2 x 2 x 2,31  | = "   | 9,24  |
| 2 x 2 x 8,30  | = "   | 33,20 |
| 2 x 2 x 6,84  | = "   | 27,36 |
| 1 x 2 x 7,40  | = "   | 14,80 |

Sommano ml. 316,90  
=====

ml. 316,90 x Kg. 1,208 = Kg. 382,81

Staffe

Ø 10 :

2(16 + 18) x 3,28 = ml. 223,04  
=====

ml. 223,04 x Kg. 0,617 = " 137,61

Ø 8 :

|               |       |        |
|---------------|-------|--------|
| 121 x 3,75    | = ml. | 453,75 |
| 4 x 10 x 3,24 | = "   | 129,60 |
| 13 x 3,24     | = "   | 42,12  |

Reggistaffe:

4 x 25,92 = " 103,68

Sommano ml. 729,15  
=====

ml. 729,15 x Kg. 0,395 = " 288,01

TRAVE 6 - 6'

Ø 14 :

|                |       |        |
|----------------|-------|--------|
| 4 x 30 x 10,38 | = ml. | 124,56 |
| 2 x 3 x 7,68   | = "   | 46,08  |

A Riportare ml. 170,64 Kg. 808,43

= 90 =

|              |     |        |     |        |
|--------------|-----|--------|-----|--------|
| Riporto      | ml. | 170,64 | Kg. | 808,43 |
| 2 x 3 x 6,99 | = " | 41,94  |     |        |
| 2 x 2 x 2,31 | = " | 9,24   |     |        |
| 2 x 3 x 8,20 | = " | 49,20  |     |        |
| 2 x 3 x 8,00 | = " | 48,00  |     |        |
| 1 x 1 x 4,94 | = " | 4,94   |     |        |

Sommano ml. 323,96

ml. 323,96 x Kg. 1,208 = " 391,34

Staffe

Ø 10 :

2 x 46 x 3,26 = ml. 301,76

ml. 301,76 x Kg. 0,617 = " 186,18

Ø 8 :

29 x 3,24 = ml. 93,96

Reggistaffe

Ø 8 :

4 x 25,92 = " 103,68

Sommano ml. 197,64

ml. 197,64 x Kg. 0,395 = " 78,07

TRAVE 11 - 11'

Ø 14 :

4 x 3 x 10,38 = ml. 124,56

2 x 3 x 7,68 = " 46,08

2 x 3 x 7,09 = " 42,54

2 x 2 x 2,61 = " 10,44

6 x 3 x 8,40 = " 151,20

Sommano ml. 374,82

ml. 374,82 x Kg. 1,208 = " 452,78

Staffe

Ø 10 :

121 x 3,28 = ml. 396,88

ml. 396,88 x Kg. 0,617 = " 244,87

Ø 8 :

121 x 3,75 = ml. 453,75

Reggistaffe

Ø 8 :

4 x 25,92 = " 103,68

Sommano ml. 557,43

ml. 557,43 x Kg. 0,395 = " 220,18

A Riportare Kg. 2.381,85

= 91 =

Riporto

Kg. 2.381,85

TRAVI 5-10 e 5'-10'

Ø 14 :

|               |       |       |
|---------------|-------|-------|
| 2 x 3 x 8,14  | = ml. | 48,84 |
| 2 x 3 x 10,46 | = "   | 62,76 |
| 2 x 2 x 7,77  | = "   | 31,08 |
| 2 x 2 x 6,05  | = "   | 24,20 |

Sommano ml. 166,88

ml. 166,88 x Kg. 1,208 = " 201,59

Staffe

Ø 8 :

|               |       |        |
|---------------|-------|--------|
| 2 x 27 x 3,24 | = ml. | 174,96 |
| 2 x 35 x 3,75 | = "   | 262,50 |

Reggistaffe

Ø 8 :

|              |     |       |
|--------------|-----|-------|
| 2 x 4 x 6,98 | = " | 55,84 |
|--------------|-----|-------|

Sommano ml. 493,30

ml. 493,30 x Kg. 0,395 = " 194,85

TRAVI 11-1 e 11'-1' (giunto)

Ø 20 :

|               |       |       |
|---------------|-------|-------|
| 2 x 3 x 10,50 | = ml. | 63,00 |
| 2 x 2 x 6,70  | = "   | 26,80 |
| 2 x 3 x 6,68  | = "   | 40,02 |
| 2 x 5 x 8,67  | = "   | 86,70 |
| 2 x 2 x 8,36  | = "   | 33,44 |
| 2 x 3 x 9,16  | = "   | 54,96 |
| 2 x 2 x 2,05  | = "   | 8,20  |

Sommano ml. 313,12

ml. 313,12 x Kg. 2,466 = " 772,15

Staffe

Ø 12 :

|               |                     |
|---------------|---------------------|
| 2 x 49 x 3,32 | = <u>ml. 325,36</u> |
|---------------|---------------------|

ml. 325,36 x Kg. 0,888 = " 288,92

Ø 8:

|               |       |        |
|---------------|-------|--------|
| 2 x 57 x 3,11 | = ml. | 354,54 |
|---------------|-------|--------|

Reggistaffe

Ø 8 :

|               |     |       |
|---------------|-----|-------|
| 2 x 4 x 11,36 | = " | 90,88 |
|---------------|-----|-------|

Sommano ml. 445,42

ml. 445,42 x Kg. 0,395 = " 175,94

S O M M A N O: ELEMENTO 20 ..... Kg. 4.015,30

A Riportare

Kg. 4.015,30

## Riporto

Kg. 4.015,30

## ELEMENTO 3 D

\*\*\*\*\*

## TRAVE 1' - 1:

Ø 14 :

|         |       |       |       |
|---------|-------|-------|-------|
| 2 x 6 x | 6,40  | = ml. | 76,80 |
| 2 x     | 5,40  | = "   | 10,80 |
| 2 x 3 x | 6,28  | = "   | 37,68 |
| 3 x     | 3,11  | = "   | 9,33  |
| 2 x     | 11,55 | = "   | 23,10 |
| 1 x     | 8,63  | = "   | 8,63  |
| 2 x 2 x | 11,55 | = "   | 46,20 |
| 1 x     | 8,63  | = "   | 8,63  |
| 3 x     | 8,70  | = "   | 26,10 |
| 3 x     | 12,25 | = "   | 36,75 |
| 3 x     | 8,63  | = "   | 25,89 |
| 2 x     | 11,55 | = "   | 23,10 |
| 2 x 3 x | 8,20  | = "   | 49,20 |
| 2 x 2 x | 7,88  | = "   | 31,52 |
| 2 x 3 x | 7,59  | = "   | 45,54 |
| 2 x     | 7,95  | = "   | 15,90 |
| 3 x     | 8,68  | = "   | 25,86 |
| 2 x     | 2,76  | = "   | 5,52  |

Sommano ml. 506,55

ml. 506,55 x Kg. 1,208 = Kg. 611,91

## Staffe

Ø 10 :

(8+25+31)x3,28 = ml. 132,80

ml. x Kg. 0,617 = " 63,13

Ø 12 :

2 x 20 x 3,32 = ml. 132,80

ml. 13,28 x Kg. 0,888 = " 117,93

Ø 8 :

|       |       |       |        |
|-------|-------|-------|--------|
| 34 x  | 3,24  | = ml. | 110,16 |
| 138 x | 3,72  | = "   | 513,36 |
| 4 x   | 30,77 | = "   | 123,08 |

Sommano ml. 746,60

ml. 746,60 x Kg. 0,395 = " 294,91

## TRAVE 6' - 6

Ø 14 :

|         |       |       |       |
|---------|-------|-------|-------|
| 2 x 6 x | 6,40  | = ml. | 76,80 |
| 2 x     | 4,50  | = "   | 9,00  |
| 2 x 3 x | 9,28  | = "   | 55,68 |
| 2 x 4 x | 11,68 | = "   | 93,44 |
| 3 x     | 11,70 | = "   | 35,10 |

A Riportare

270,02

Kg. 1.087,88

Kg. 4.015,30

|              |     |        |     |          |     |          |
|--------------|-----|--------|-----|----------|-----|----------|
| Riporto      | ml. | 270,02 | Kg. | 1.087,88 | Kg. | 4.015,30 |
| 3 x 11,23    | = " | 33,69  |     |          |     |          |
| 3 x 3,11     | = " | 9,33   |     |          |     |          |
| 2 x 3 x 8,20 | = " | 49,20  |     |          |     |          |
| 2 x 2 x 8,20 | = " | 32,80  |     |          |     |          |
| 2 x 8,62     | = " | 17,24  |     |          |     |          |
| 2 x 2,76     | = " | 5,52   |     |          |     |          |
| 2 x 3 x 8,50 | = " | 51,00  |     |          |     |          |
| 1 x 7,60     | = " | 7,60   |     |          |     |          |

Sommano ml. 476,40

ml. 476,40 x Kg. 1,208 = " 575,49

Staffe

Ø 10 :

138 x 3,28 = ml. 452,64

ml. 452,64 x Kg. 0,617 = " 279,28

Ø 8 :

138 x 3,75 = ml. 517,50

Reggistaffe

4 x 30,77 = " 123,08

Sommano ml. 640,58

ml. 640,58 x Kg. 0,395 = " 253,03

TRAVE 11' - 11:

Ø 14 :

|               |       |        |
|---------------|-------|--------|
| 2 x 6 x 6,40  | = ml. | 76,80  |
| 2 x 4,50      | = "   | 9,00   |
| 2 x 3 x 9,28  | = "   | 55,68  |
| 2 x 3 x 11,68 | = "   | 70,08  |
| 3 x 11,70     | = "   | 35,10  |
| 3 x 11,23     | = "   | 33,69  |
| 3 x 3,11      | = "   | 9,33   |
| 7 x 3 x 8,40  | = "   | 176,40 |
| 3 x 8,72      | = "   | 26,16  |
| 2 x 2,86      | = "   | 5,72   |

Sommano ml. 497,96

ml. 497,96 x Kg. 1,208 = " 601,53

Staffe

Ø 10 :

138 x 3,28 = ml. 452,64

ml. 452,64 x Kg. 0,617 = " 279,28

A Riportare

Kg. 3.076,49

Kg. 4.015,30

= 94 =

Riporto

Kg. 3.076,49

Kg. 4.015,30

Ø 8 :

138 x 3,75 = ml. 517,50

Reggistaffe:

Ø 8 :

4 x 30,77 = " 123,08

Sommano ml. 640,58

ml. 640,58 x Kg. 0,395 = " 253,03

TRAVE 5-10 e 5'-10'

Si richiama la partita  
della 2C:

(201,59 + 194,85) = = " 396,44

TRAVE 1' - 11'

(giunto con sottotrave)

Ø 20 :

3 x 11,50 = ml. 34,50

2 x 7,20 = " 14,40

3 x 7,67 = " 23,01

5 x 8,67 = " 43,35

2 x 8,36 = " 16,72

3 x 9,16 = " 27,48

2 x 2,05 = " 4,10

Sommano ml. 163,56

ml. 163,56 x Kg. 2,466 = " 403,34

Staffe

Ø 12 :

57 x 3,32 = ml. 189,24

ml. 189,24 x Kg. 0,888 = " 168,04

Ø 8 :

57 x 3,11 = ml. 177,27

Reggistaffe

4 x 11,36 = " 45,44

Sommano ml. 222,71

ml. 222,71 x Kg. 0,395 = " 87,97

TRAVE 11 - 1 (testata)

Ø 20 :

4 x 10,50 = ml. 42,00

2 x 6,70 = " 13,40

4 x 7,67 = " 30,68

A Riportare ml. 86,48

Kg. 4.385,31

Kg. 4.015,30

|                                      |        |        |       |          |        |          |
|--------------------------------------|--------|--------|-------|----------|--------|----------|
| Riporto                              | ml.    | 86,48  | Kg.   | 4.385,31 | Kg.    | 4.015,30 |
| 4 x 8,77                             | = "    | 35,08  |       |          |        |          |
| 2 x 8,24                             | = "    | 16,48  |       |          |        |          |
| 5 x 9,04                             | = "    | 45,20  |       |          |        |          |
| 2 x 7,53                             | = "    | 15,06  |       |          |        |          |
| Sommano                              | ml.    | 197,90 |       |          |        |          |
| ml.                                  | 197,90 | x Kg.  | 2,466 | = "      | 488,02 |          |
| Staffe                               |        |        |       |          |        |          |
| Ø 12 :                               |        |        |       |          |        |          |
| 49 x 3,32                            | = ml.  | 162,68 |       |          |        |          |
| ml.                                  | 162,68 | x Kg.  | 0,888 | = "      | 144,46 |          |
| Ø 8 :                                |        |        |       |          |        |          |
| 57 x 3,75                            | = ml.  | 213,75 |       |          |        |          |
| Reggistaffe:                         |        |        |       |          |        |          |
| Ø 8 :                                |        |        |       |          |        |          |
| 4 x 11,36                            | = "    | 45,44  |       |          |        |          |
| Sommano                              | ml.    | 259,19 |       |          |        |          |
| ml.                                  | 259,19 | x Kg.  | 0,395 | = "      | 102,38 |          |
| S O M M A N O : ELEMENTO 3D .....    |        |        |       |          | "      | 5.120,17 |
| T O T A L E : ELEMENTO 2C e 3D ..... |        |        |       |          | Kg.    | 9.135,47 |

Travi di collegamento  
15-10/10' e 15-10'

|               |        |        |       |       |        |              |
|---------------|--------|--------|-------|-------|--------|--------------|
| Ø 20 :        |        |        |       |       |        |              |
| 2 x 4 x 5,20  | = ml.  | 41,60  |       |       |        |              |
| 2 x 2 x 9,90  | = "    | 39,60  |       |       |        |              |
| 2 x 4 x 8,64  | = "    | 69,12  |       |       |        |              |
| Sommano       | ml.    | 150,32 |       |       |        |              |
| ml.           | 150,32 | x Kg.  | 2,466 | = Kg. | 370,69 |              |
| Staffe        |        |        |       |       |        |              |
| Ø 12 :        |        |        |       |       |        |              |
| 2 x 22 x 3,32 | = ml.  | 146,08 |       |       |        |              |
| ml.           | 146,08 | x Kg.  | 0,888 | = "   | 129,72 |              |
| Ø 8 :         |        |        |       |       |        |              |
| 2 x 30 x 3,75 | = ml.  | 225,00 |       |       |        |              |
| Reggistaffe:  |        |        |       |       |        |              |
| Ø 8 :         |        |        |       |       |        |              |
| 2 x 4 x 5,96  | = "    | 47,68  |       |       |        |              |
| Sommano       | ml.    | 272,68 |       |       |        |              |
| ml.           | 272,68 | x Kg.  | 0,395 | = "   | 107,71 |              |
| A Riportare   |        |        |       | Kg.   | 608,12 | Kg. 9.135,47 |

|                                      |       |               |     |               |
|--------------------------------------|-------|---------------|-----|---------------|
| Riporto                              | Kg.   | 608,12        | Kg. | 9.135,47      |
| <u>Sottotrave giunti</u>             |       |               |     |               |
| <u>1'-11' - PAL.20 - 3D</u>          |       |               |     |               |
| Ø 18 :                               |       |               |     |               |
| 6 x 11,56                            | = ml. | <u>69,36</u>  |     |               |
| ml. 69,36 x Kg. 1,998                | = "   | 138,58        |     |               |
| Staffoni:                            |       |               |     |               |
| Ø 10.:                               |       |               |     |               |
| 29 x 7,80                            | = ml. | <u>226,20</u> |     |               |
| ml. 226,20 x Kg. 0,617               | = "   | <u>139,56</u> |     |               |
| SOMMANO: travi di collegamento ..... |       |               | "   | <u>886,26</u> |
| T O T A L E .....                    |       |               | Kg. | 10.021,73     |

## ELEMENTO 2 C

\*\*\*\*\*

Pil.: 1-2-3-4-4'-3'-2'-1'-6-7-8-9-  
9'-8'-7'-6'-11-12-13-14-15-  
14'-13'-12'-11'- :

Ø 14 :

25 x 8 x 3,71 = ml. 742,00

ml. 742,00 x Kg. 1,208 = Kg. 896,34

Staffe

Ø 6 :

25 x 20 x 2,00 = ml. 1.000,00

ml. 1.000,00 x Kg. 0,222 = " 222,00

Pil. 5-16-10-5'-16'-10:6 x 8 x 3,71 = ml. 178,08

ml. 178,08 x Kg. 1,208 = " 215,12

Staffe

Ø 6 :

6 x 20 x 1,80 = ml. 216,00

ml. 216,00 x Kg. 0,222 = " 47,95

## ELEMENTO 3 D

\*\*\*\*\*

Pil.: 1-2-3-4-4'-3'-2'-1'-6-7-8-9-  
9'-8'-7'-6'-11-12-13-14-15 -  
15'-14'-13'-12'-11'.=

A Riportare

Kg. 1.281,41

Kg. 10.021,73

Riporto

Kg. 1.281,41

Kg. 10.021,73

Ø 14 :

$$26 \times 8 \times 5,49 = \underline{\underline{\text{ml. } 1.141,92}}$$

$$\text{ml. } 1.141,92 \times \text{Kg. } 1,208 = \text{Kg. } 1.379,44$$

Staffe

Ø 6 :

$$26 \times 32 \times 2,00 = \underline{\underline{\text{ml. } 1.664,00}}$$

$$\text{ml. } 1.664,00 \times \text{Kg. } 0,222 = " 369,41$$

Pil. 5-16-10-5'-E6'-10'.

Ø 14:

$$6 \times 8 \times 5,49 = \underline{\underline{\text{ml. } 263,52}}$$

$$\text{ml. } 263,52 \times \text{Kg. } 1,208 = " 318,33$$

Staffe

Ø 6 :

$$6 \times 32 \times 1,80 = \underline{\underline{\text{ml. } 345,60}}$$

$$\text{ml. } 345,60 \times \text{Kg. } 0,222 = " 76,72$$

Ferro per spezzoni pilastri dallo  
estradosso cordolo di irrigidimen-  
to a piano forfait.

ELEMENTO 2 C

\*\*\*\*\*

Pil.: 1-1'-11-11'-2-2'-12-12'-13-  
13'-14-14'-15-6-6'-7-7'.

Ø 14 :

$$17 \times 6 \times 1,26 = \underline{\underline{\text{ml. } 128,52}}$$

$$\text{ml. } 128,52 \times \text{Kg. } 1,208 = " 155,25$$

Staffe

Ø 6 :

$$17 \times 2 \times 1,28 = \underline{\underline{\text{ml. } 43,52}}$$

$$\text{ml. } 43,52 \times \text{Kg. } 0,222 = " 9,66$$

Pil.: 3-3'-4'-4'.

Ø 14 :

$$4 \times 6 \times 1,26 = \underline{\underline{\text{ml. } 30,24}}$$

$$\text{ml. } 30,24 \times \text{Kg. } 1,208 = " 36,53$$

A Riportare

Kg. 3.726,75

Kg. 10.021,73

|                                           |             |              |               |
|-------------------------------------------|-------------|--------------|---------------|
|                                           | Ripporto    | Kg. 3.726,75 | Kg. 10.021,73 |
| Staffe                                    |             |              |               |
| Ø 6 :                                     |             |              |               |
| 4 x 2 x 1,54                              | = ml. 12,32 |              |               |
| ml. 12,32 x Kg. 0,222                     | = "         | 2,73         |               |
| Pil.: <u>8-8'-9-9'.</u>                   |             |              |               |
| Ø 14 :                                    |             |              |               |
| 4 x 6 x 1,26                              | = ml. 30,24 |              |               |
| ml. 30,24 x Kg. 1,208                     | = "         | 36,53        |               |
| Staffe                                    |             |              |               |
| Ø 6 :                                     |             |              |               |
| 4 x 2 x 1,40                              | = ml. 11,20 |              |               |
| ml. 11,20 x Kg. 0,222                     | = "         | 2,49         |               |
| Pil.: <u>5-5'-10-10'</u>                  |             |              |               |
| Ø 14 :                                    |             |              |               |
| 4 x 6 x 1,26                              | = ml. 30,24 |              |               |
| ml. 30,24 x Kg. 1,208                     | = "         | 36,53        |               |
| Staffe                                    |             |              |               |
| Ø 6 :                                     |             |              |               |
| 4 x 2 x 1,52                              | = ml. 12,16 |              |               |
| ml. 12,16 x Kg. 0,222                     | = "         | 2,70         |               |
| Pil.: <u>16 - 16'.</u>                    |             |              |               |
| Ø 14 :                                    |             |              |               |
| 2 x 6 x 1,26                              | = ml. 15,12 |              |               |
| ml. 15,12 x Kg. 1,208                     | = "         | 18,26        |               |
| Staffe                                    |             |              |               |
| Ø 6 :                                     |             |              |               |
| 2 x 3 x 1,60                              | = ml. 9,60  |              |               |
| ml. 9,60 x Kg. 0,222                      | = "         | 2,13         |               |
| S O M M A N O: ELEMENTO 2 C .....         |             |              | Kg. 3.828,13  |
| T O T A L E: ELEMENTO 2 C .....           |             |              | Kg. 13.849,86 |
| ELEMENTO 3 D                              |             |              |               |
| .....                                     |             |              |               |
| <u>Ferro per spezzoni pilastri dallo</u>  |             |              |               |
| <u>estradosso cordolo d'irrigidimento</u> |             |              |               |
| <u>al piano forfait.</u>                  |             |              |               |

A Riportare

Kg. 13.849,86

Pil.: 1-1'-11-11'-2-2'-12-12'-13-  
13'-14-14'-15-15'-6-6'-7-7'

Ø 14 :

$$18 \times 6 \times 1,54 = \underline{\underline{\text{ml. } 166,32}}$$

$$\text{ml. } 166,32 \times \text{Kg. } 1,208 = \text{Kg. } 200,91$$

Staffe

Ø 6 :

$$18 \times 4 \times 1,28 = \underline{\underline{\text{ml. } 92,16}}$$

$$\text{ml. } 92,16 \times \text{Kg. } 0,222 = " 20,46$$

Pil.: 3-3'-4'-4

Ø 14 :

$$4 \times 6 \times 1,54 = \underline{\underline{\text{ml. } 36,96}}$$

$$\text{ml. } 36,96 \times \text{Kg. } 1,208 = " 44,65$$

Staffe

Ø 6 :

$$4 \times 4 \times 1,54 = \underline{\underline{\text{ml. } 24,64}}$$

$$\text{ml. } 24,64 \times \text{Kg. } 0,222 = " 5,47$$

Pil.: 8-8'-9-9'

Ø 14 :

$$4 \times 6 \times 1,54 = \underline{\underline{\text{ml. } 36,96}}$$

$$\text{ml. } 36,96 \times \text{Kg. } 1,208 = " 44,65$$

Staffe

Ø 6 :

$$4 \times 4 \times 1,40 = \underline{\underline{\text{ml. } 22,40}}$$

$$\text{ml. } 22,40 \times \text{Kg. } 0,222 = " 4,97$$

Pil.: 5-5' - 10-10'

Ø 14 :

$$4 \times 6 \times 1,54 = \underline{\underline{\text{ml. } 36,96}}$$

$$\text{ml. } 36,96 \times \text{Kg. } 1,208 = " 44,65$$

Staffe

Ø 6 :

$$4 \times 5 \times 1,52 = \underline{\underline{\text{ml. } 30,40}}$$

$$\text{ml. } 30,40 \times \text{Kg. } 0,222 = " 6,74$$

Pil.: 16 - 16'

Ø 14:

A Riportare

Kg. 372,50

Kg. 13.849,86

= 100 =

|                       |             |       |              |               |
|-----------------------|-------------|-------|--------------|---------------|
|                       | Riporto     | Kg.   | 372,50       | Kg. 13.849,86 |
| 2 x 6 x 1,54          | = ml. 18,48 |       |              |               |
| ml. 18,48 x Kg. 1,208 | = "         | 22,32 |              |               |
| Staffe                |             |       |              |               |
| Ø 6 :                 |             |       |              |               |
| 2 x 6 x 1,60          | = ml. 19,20 |       |              |               |
| ml. 19,20 x Kg. 0,222 | = "         | 4,26  |              |               |
| S O M M A N O :       |             |       | "            | 399,09        |
| T O T A L E :         |             |       | ELEMENTO 3 D | Kg. 14.248,95 |

ELEMENTO 2 C  
.....

Ferro per formazione cordoli  
d'irrigidimento.=

TRATTI 1-2 e 1'-2' - 6-7 e 6'-7'

Ø 14 :

$$4 \times 4 \times 4,68 = \text{ml. } 74,88$$

$$\text{ml. } 74,88 \times \text{Kg. } 1,208 = \text{Kg. } 90,45$$

Staffe

Ø 8 :

$$4 \times 15 \times 1,54 = \text{ml. } 92,40$$

$$\text{ml. } 92,40 \times \text{Kg. } 0,395 = " 36,50$$

TRATTI 11 - 11'

Ø 14 :

$$4 \times 26,46 = \text{ml. } 105,84$$

$$\text{ml. } 105,84 \times \text{Kg. } 1,208 = " 127,85$$

Staffe

Ø 8 :

$$120 \times 1,54 = \text{ml. } 184,80$$

$$\text{ml. } 184,80 \times \text{Kg. } 0,395 = " 73,00$$

TRATTO 15 - 10

Ø 14 :

$$4 \times 5,03 = \text{ml. } 20,12$$

$$\text{ml. } 20,12 \times \text{Kg. } 1,208 = " 24,30$$

A Riportare

$$\text{Kg. } 352,10$$

$$\text{Kg. } 14.248,95$$

Kg. Kg. 352,10 Kg. 14.248,95

Staffe

Ø 8 :

$$21 \times 1,54 = \underline{\underline{\text{ml. } 32,34}}$$

$$\text{ml. } 32,34 \times \text{Kg. } 0,395 = " 12,77$$

TRATTI 11-1 e 11'-1'

Ø 14 :

$$2 \times 4 \times 10,48 = \underline{\underline{\text{ml. } 83,84}}$$

$$\text{ml. } 83,84 \times \text{Kg. } 1,208 = " 101,28$$

Staffe

Ø 8 :

$$2 \times 49 \times 1,54 = \underline{\underline{\text{ml. } 150,92}}$$

$$\text{ml. } 150,92 \times \text{Kg. } 0,395 = " 59,61$$

TRATTO 3-4 e 4'-3'

Ø 14 :

$$2 \times 6 \times 5,83 = \underline{\underline{\text{ml. } 69,96}}$$

$$\text{ml. } 69,96 \times \text{Kg. } 1,208 = " 84,51$$

Staffe

Ø 8 :

$$2 \times 19 \times 2,04 = \underline{\underline{\text{ml. } 77,52}}$$

$$\text{ml. } 77,52 \times \text{Kg. } 0,395 = " 30,62$$

TRATTO 4 - 4'

Ø 14 :

$$4 \times 9,38 = \underline{\underline{\text{ml. } 37,52}}$$

$$\text{ml. } 37,52 \times \text{Kg. } 1,208 = " 45,32$$

Staffe

Ø 8 :

$$33 \times 2,04 = \underline{\underline{\text{ml. } 67,32}}$$

$$\text{ml. } 67,32 \times \text{Kg. } 0,395 = " 26,59$$

TRATTO 2-3 e 2'-3'

Ø 14 :

$$2 \times 6 \times 4,38 = \underline{\underline{\text{ml. } 52,56}}$$

$$\text{ml. } 52,56 \times \text{Kg. } 1,208 = " 63,49$$

Ø 16 :

$$2 \times 2 \times 4,68 = \underline{\underline{\text{ml. } 18,72}}$$

$$\text{ml. } 18,72 \times \text{Kg. } 1,578 = " 29,54$$

A Riportare

Kg. 805,83 Kg. 14.248,95

|                             |              |     |          |               |
|-----------------------------|--------------|-----|----------|---------------|
|                             | Riporto      | Kg. | 805,83   | Kg. 14.248,95 |
| Staffe                      |              |     |          |               |
| Ø 8 :                       |              |     |          |               |
| 2 x 11 x 2,04               | = ml. 44,88  |     |          |               |
| ml. 44,88 x Kg. 0,395       | = "          |     | 17,72    |               |
| <u>TRATTO 7-8 e 7'-8'</u>   |              |     |          |               |
| Ø 14 :                      |              |     |          |               |
| 2 x 8 x 5,28                | = ml. 84,48  |     |          |               |
| ml. 84,48 x Kg. 1,208       | = "          |     | 102,05   |               |
| Ø 16 :                      |              |     |          |               |
| 2 x 2 x 5,58                | = ml. 22,32  |     |          |               |
| ml. 22,32 x Kg. 1,578       | = "          |     | 35,22    |               |
| Staffe                      |              |     |          |               |
| Ø 8 :                       |              |     |          |               |
| 2 x 15 x 2,04               | = ml. 61,20  |     |          |               |
| ml. 61,20 x Kg. 0,395       | = "          |     | 24,17    |               |
| <u>TRATTO 8 - 8'</u>        |              |     |          |               |
| Ø 14 :                      |              |     |          |               |
| 4 x 14,28                   | = ml. 57,12  |     |          |               |
| ml. 57,12 x Kg. 1,208       | = "          |     | 69,00    |               |
| Staffe                      |              |     |          |               |
| Ø 8 :                       |              |     |          |               |
| 60 x 2,04                   | = ml. 122,40 |     |          |               |
| ml. 122,40 x Kg. 0,395      | = "          |     | 48,35    |               |
| <u>TRATTI 7-2 e 7'-2'</u>   |              |     |          |               |
| Ø 14 :                      |              |     |          |               |
| 2 x 12 x 6,48               | = ml. 155,52 |     |          |               |
| ml. 155,52 x Kg. 1,208      | = "          |     | 187,87   |               |
| Staffe                      |              |     |          |               |
| Ø 8 :                       |              |     |          |               |
| 2 x 35 x 1,64               | = ml. 114,80 |     |          |               |
| ml. 114,80 x Kg. 0,395      | = "          |     | 45,34    |               |
| <u>TRATTI 5-10 e 5'-10'</u> |              |     |          |               |
| Staffe                      |              |     |          |               |
| A Riportare                 |              | Kg. | 1.335,59 | Kg. 14.248,95 |

Riporto

Kg. 1.335,59

Kg. 14.248,95

Ø 14 :

$$2 \times 6 \times 6,48 = \underline{\underline{\text{ml. } 77,76}}$$

$$\text{ml. } 77,76 \times \text{Kg. } 1,208 = " 93,93$$

Staffe

Ø 8 :

$$2 \times 25 \times 1,44 = \underline{\underline{\text{ml. } 72,00}}$$

$$\text{ml. } 72,00 \times \text{Kg. } 0,395 = " 28,44$$

Cordoli porta tramezzi  
longitudinali.=

Ø 14 :

$$2 \times 6 \times 8,33 = \underline{\underline{\text{ml. } 99,96}}$$

$$\text{ml. } 99,96 \times \text{Kg. } 1,208 = " 120,75$$

Staffe

Ø 8 :

$$2 \times 39 \times 1,24 = \underline{\underline{\text{ml. } 96,72}}$$

$$\text{ml. } 96,72 \times \text{Kg. } 0,395 = " 38,20$$

Cordoli porta tramezzi  
trasversali.=

Ø 14 :

$$4 \times 6 \times 6,28 = \underline{\underline{\text{ml. } 150,72}}$$

$$\text{ml. } 150,72 \times \text{Kg. } 1,208 = " 182,07$$

Staffe

Ø 8 :

$$4 \times 25 \times 1,24 = \underline{\underline{\text{ml. } 62,00}}$$

$$\text{ml. } 62,00 \times \text{Kg. } 0,395 = " 24,49$$

Staffoni sui pilastri:  
7-8-9-10-10'-9'-8'-7':

Ø 14 :

$$8 \times 2 \times 2,32 = \underline{\underline{\text{ml. } 37,12}}$$

$$\text{ml. } 37,12 \times \text{Kg. } 1,208 = " 44,84$$

" 1.859,31

T O T A L E: ELEMENTO 2C - a riportare

Kg. 16.108,26

Riporto

Kg. 16.108,26

ELEMENTO 3 D  
\*\*\*\*\*TRATTI:1-2 e 1'-2'-6-7- e 6'-7'

Ø 14 :

$$4 \times 4 \times 4,68 = \text{ml. } 74,88$$

$$\text{ml. } 74,88 \times \text{Kg. } 1,208 = \text{Kg. } 90,45$$

Staffe

Ø 8 :

$$4 \times 15 \times 1,54 = \text{ml. } 92,40$$

$$\text{ml. } 92,40 \times \text{Kg. } 0,395 = " 36,50$$

TRATTO 11-11'

Ø 14 :

$$4 \times 29,46 = \text{ml. } 117,84$$

$$\text{ml. } 117,84 \times \text{Kg. } 1,208 = " 142,35$$

Staffe

Ø 8 :

$$136 \times 1,54 = \text{ml. } 55,44$$

$$\text{ml. } 55,44 \times \text{Kg. } 0,395 = " 21,90$$

TRATTI 1-11 e 1'-11'

Ø 14 :

$$2 \times 4 \times 10,48 = \text{ml. } 83,84$$

$$\text{ml. } 83,84 \times \text{Kg. } 1,208 = " 101,28$$

Staffe

Ø 8 :

$$2 \times 49 \times 1,54 = \text{ml. } 150,92$$

$$\text{ml. } 150,92 \times \text{Kg. } 0,395 = " 59,61$$

TRATTO 10'-15'

Ø 14 :

$$4 \times 5,03 = \text{ml. } 20,12$$

$$\text{ml. } 20,12 \times \text{Kg. } 1,208 = " 24,30$$

Staffe

Ø 8 :

$$31 \times 1,54 = \text{ml. } 109,74$$

$$\text{ml. } 109,74 \times \text{Kg. } 0,395 = " 43,35$$

A Riportare

Kg. 519,74

Kg. 16.108,26

Kg. 519,74 Kg. 16.108,26

TRATTI 3-4 e 3'-4'

Ø 14 :

$$2 \times 8 \times 6,33 = \underline{\underline{\text{ml. } 101,28}}$$

$$\text{ml. } 101,28 \times \text{Kg. } 1,208 = " 122,35$$

Staffe

Ø 8 :

$$2 \times 21 \times 2,04 = \underline{\underline{\text{ml. } 85,68}}$$

$$\text{ml. } 85,68 \times \text{Kg. } 0,395 = " 33,84$$

TRATTO 4 - 4'

Ø 14 :

$$4 \times 9,18 = \underline{\underline{\text{ml. } 36,72}}$$

$$\text{ml. } 36,72 \times \text{Kg. } 1,208 = " 44,36$$

Staffe

Ø 8 :

$$35 \times 2,04 = \underline{\underline{\text{ml. } 71,40}}$$

$$\text{ml. } 71,40 \times \text{Kg. } 0,395 = " 28,20$$

TRATTI: 2-3 e 2'-3' e  
7-8 e 7'-8'.

Ø 14 :

$$4 \times 8 \times 5,28 = \underline{\underline{\text{ml. } 168,96}}$$

$$\text{ml. } 168,96 \times \text{Kg. } 1,208 = " 204,10$$

Ø 16

$$4 \times 2 \times 5,58 = \underline{\underline{\text{ml. } 44,64}}$$

$$\text{ml. } 44,64 \times \text{Kg. } 1,578 = " 70,44$$

Staffe

Ø 8 :

$$4 \times 15 \times 2,04 = \underline{\underline{\text{ml. } 122,40}}$$

$$\text{ml. } 122,40 \times \text{Kg. } 0,395 = " 48,35$$

TRATTO: 8-9 e 8'-9'.

Ø 14 :

$$2 \times 4 \times 5,28 = \underline{\underline{\text{ml. } 42,24}}$$

$$\text{ml. } 42,24 \times \text{Kg. } 1,208 = " 51,02$$

Staffe:

Ø 8 :

$$2 \times 15 \times 2,04 = \underline{\underline{\text{ml. } 61,20}}$$

$$\text{ml. } 61,20 \times \text{Kg. } 0,395 = " 24,17$$

A Riportare

Kg. 1.146,58

Kg. 16.108,26

Riporto

Kg. 1.146,58

Kg. 16.108,26

TRATTI: 9-10 e 9'-10'

Ø 14 :

$$2 \times 6 \times 6,50 = \text{ml. } 78,00$$

$$\text{ml. } 78,00 \times \text{Kg. } 1,208 = " 94,22$$

Staffe

Ø 8 :

$$2 \times 17 \times 2,04 = \text{ml. } 69,36$$

$$\text{ml. } 69,36 \times \text{Kg. } 0,395 = " 27,40$$

TRATTO: 10-10'

Ø 14 :

$$4 \times 3,98 = \text{ml. } 15,92$$

$$\text{ml. } 15,92 \times \text{Kg. } 1,208 = " 19,23$$

Staffe

Ø 8 :

$$13 \times 2,04 = \text{ml. } 26,52$$

$$\text{ml. } 26,52 \times \text{Kg. } 0,395 = " 10,47$$

TRATTI: 3-8 e 3'-8'

Ø 14 :

$$2 \times 12 \times 6,48 = \text{ml. } 155,52$$

$$\text{ml. } 155,52 \times \text{Kg. } 1,208 = " 187,87$$

Staffe

Ø 8 :

$$2 \times 25 \times 1,64 = \text{ml. } 82,00$$

$$\text{ml. } 82,00 \times \text{Kg. } 0,395 = " 32,39$$

TRATTI: 5-10 e 5'-10'

Ø 14 :

$$2 \times 6 \times 6,48 = \text{ml. } 77,76$$

$$\text{ml. } 77,76 \times \text{Kg. } 1,208 = " 93,93$$

Staffe

Ø 8 :

$$2 \times 25 \times 1,44 = \text{ml. } 72,00$$

$$\text{ml. } 72,00 \times 0,395 = " 28,44$$

A Riportare

Kg. 1.640,53

Kg. 16.108,26

Riporto

Kg. 1.640,53

Kg. 16.108,26

Cordoli porta tramezzi  
longitudinali :

Ø 14 :

$$2 \times 6 \times 8,33 = \underline{\underline{\text{ml. } 99,96}}$$

$$\text{ml. } 99,96 \times \text{Kg. } 1,208 = " 120,75$$

Staffe

Ø 8 :

$$2 \times 39 \times 1,24 = \underline{\underline{\text{ml. } 96,72}}$$

$$\text{ml. } 96,72 \times \text{Kg. } 0,395 = " 38,20$$

Cordoli porta tramezzi  
trasversali:

Ø 14 :

$$4 \times 6 \times 6,28 = \underline{\underline{\text{ml. } 150,72}}$$

$$\text{ml. } 150,72 \times \text{Kg. } 1,208 = " 182,07$$

Staffe

Ø 8 :

$$4 \times 25 \times 1,24 = \underline{\underline{\text{ml. } 124,00}}$$

$$\text{ml. } 124,00 \times \text{Kg. } 0,395 = " 48,98$$

Staffoni sui Pilastri :

7-8-9-10-10'-9'-8'-7'

Ø 14 :

$$8 \times 2 \times 2,32 = \underline{\underline{\text{ml. } 37,12}}$$

$$\text{ml. } 37,12 \times \text{Kg. } 1,208 = " 44,84$$

S O M M A N O: ELEMENTO 3D .....

" 2.065,07

T O T A L E : ELEMENTO 2C e 3D .....

Kg. 18.173,33

=====

Ferro omogeneo in opera as-  
gomato per c. a. =

MISURE DEFINITIVE

PALAZZINA I D  
\*\*\*\*\*

Ferro per formazione travi  
rovesce, =

Trave 1 - 1'

Ø 16 :

|              |       |       |
|--------------|-------|-------|
| 3 x 9,07     | = ml. | 27,21 |
| 2 x 2 x 6,57 | = "   | 26,28 |
| 5 x 2 x 6,52 | = "   | 65,20 |
| 3 x 5,22     | = "   | 15,66 |
| 3 x 8,72     | = "   | 26,16 |
| 3 x 8,09     | = "   | 24,27 |
| 3 x 2 x 6,92 | = "   | 41,52 |
| 3 x 6,52     | = "   | 19,56 |
| 3 x 5,22     | = "   | 15,66 |

Sommano ml. 261,52

ml. 261,52 x Kg. 1,578 = Kg. 412,68

Ø 18 :

|               |       |       |
|---------------|-------|-------|
| 2 x 9,67      | = ml. | 19,34 |
| 3 x 8,62      | = "   | 25,86 |
| 2 x 2 x 10,32 | = "   | 41,28 |
| 3 x 2 x 8,62  | = "   | 51,72 |
| 2 x 9,32      | = "   | 18,64 |
| 3 x 8,27      | = "   | 24,81 |

Sommano ml. 181,65

ml. 181,65 x Kg. 1,998 = " 362,94

Ø 14 :

|              |       |       |
|--------------|-------|-------|
| 2 x 2 x 7,38 | = ml. | 29,52 |
| 2 x 7,58     | = "   | 15,16 |
| 3 x 10,35    | = "   | 31,05 |
| 3 x 2 x 6,88 | = "   | 41,28 |
| 3 x 8,78     | = "   | 26,34 |

Sommano ml. 143,35

ml. 143,35 x Kg. 1,208 = " 173,17

Staffe

Ø 12 :

96 x 3,62 = ml. 347,52

ml. 347,52 x Kg. 0,888 = " 308,60

A Riportare

Kg. 1.258,39

Riporto

Kg. 1.258,39

Ø 10 :

15 x 3,58 = ml. 53,70

ml. 53,70 x Kg. 0,617 = " 33,13

Ø 8 :

28 x 3,54 = ml. 99,12

139 x 3,75 = " 251,25

4 x 29,59 = " 118,36

Sommano ml. 738,73

ml. 738,73 x Kg. 0,395 = " 291,80

Trave 6 - 6'

Ø 14 :

4 x 12,15 = ml. 48,60

1 x 3,28 = " 3,28

4 x 10,66 = " 42,64

4 x 12,33 = " 49,32

3 x 7,05 = " 21,15

4 x 3 x 6,08 = " 72,96

2 x 2 x 6,83 = " 40,98

3 x 6,70 = " 20,10

3 x 13,15 = " 39,45

1 x 3,28 = " 3,28

3 x 10,66 = " 31,98

3 x 11,08 = " 33,24

Sommano ml. 406,96

ml. 406,96 x Kg. 1,208 = " 491,63

Staffe

Ø 10 :

131 x 3,88 = ml. 508,28

ml. 508,28 x Kg. 0,617 = " 313,61

Ø 8 :

8 x 3,84 = ml. 30,72

139 x 4,36 = " 606,04

Reggistaffe

4 x 29,59 = " 118,36

Sommano ml. 755,12

ml. 755,12 x Kg. 0,395 = " 298,27

A Riportare

Kg. 2.685,83

Riporto

Kg. 2.685,83

Trave 12 - 12'

Ø 14 :

|               |       |              |
|---------------|-------|--------------|
| 2 x 4 x 12,35 | = ml. | 98,80        |
| 4 x 10,98     | = "   | 43,92        |
| 3 x 7,05      | = "   | 21,15        |
| 4 x 3 x 7,00  | = "   | 84,00        |
| 3 x 6,70      | = "   | 20,10        |
| 3 x 12,10     | = "   | 36,30        |
| 3 x 10,98     | = "   | 32,94        |
| 3 x 11,28     | = "   | <u>33,84</u> |

Sommano ml. 371,05

ml. 371,05 x Kg. 1,208 = " 448,23

Ø 16 :

|              |       |              |
|--------------|-------|--------------|
| 2 x 5 x 8,22 | = ml. | <u>82,20</u> |
|--------------|-------|--------------|

ml. 82,20 x Kg. 1,578 = " 129,71

Staffe

Ø 10 :

|            |       |               |
|------------|-------|---------------|
| 139 x 3,58 | = ml. | <u>497,69</u> |
|------------|-------|---------------|

ml. 497,69 x Kg. 0,617 = " 307,03

Ø 8 :

Reggistaffe

|            |       |               |
|------------|-------|---------------|
| 139 x 3,75 | = ml. | 521,25        |
| 4 x 29,59  | = "   | <u>118,36</u> |

Sommano ml. 639,61

ml. 639,61 x Kg. 0,395 = " 252,64

Trave 1-12

Ø 16 :

|           |       |              |
|-----------|-------|--------------|
| 3 x 10,36 | = ml. | 31,08        |
| 3 x 7,82  | = "   | <u>23,46</u> |

Sommano ml. 54,54

ml. 54,54 x Kg. 1,578 = Kg. 86,06

Ø 14 :

|           |       |             |
|-----------|-------|-------------|
| 1 x 6,55  | = ml. | 6,55        |
| 3 x 13,38 | = "   | 40,14       |
| 1 x 7,78  | = "   | <u>7,78</u> |

Sommano ml. 54,47

ml. 54,47 x Kg. 1,208 = " 65,80

Ø 20 :

|          |       |              |
|----------|-------|--------------|
| 5 x 9,52 | = ml. | <u>47,60</u> |
|----------|-------|--------------|

ml. 47,60 x Kg. 2,466 = " 117,38

A Riportare

Kg. 4.202,68

Riporto

Kg. 4.202,68

Ø 18 :

$$6 \times 8,98 = \text{ml. } \underline{\underline{53,88}}$$

$$\text{ml. } 53,88 \times \text{Kg. } 1,998 = \text{Kg. } 107,65$$

Staffe

Ø 12 :

$$25 \times 3,62 = \text{ml. } \underline{\underline{90,50}}$$

$$\text{ml. } 90,50 \times \text{Kg. } 0,888 = " \quad 80,36$$

Ø 10 :

$$24 \times 3,58 = \text{ml. } \underline{\underline{85,92}}$$

$$\text{ml. } 85,92 \times \text{Kg. } 0,617 = " \quad 53,01$$

Ø 8 :

$$56 \times 3,75 = \text{ml. } 210,00$$

Reggistaffe:

$$4 \times 11,26 = " \quad \underline{\underline{45,04}}$$

$$\text{Sommano ml. } \underline{\underline{255,04}}$$

$$\text{ml. } 255,04 \times \text{Kg. } 0,395 = " \quad 100,74$$

Trave 1' - 12'

Ø 16 :

$$3 \times 10,36 = \text{ml. } \underline{\underline{31,08}}$$

$$\text{ml. } 31,08 \times \text{Kg. } 1,578 = " \quad 49,04$$

Ø 18 :

$$5 \times 9,52 = \text{ml. } 47,60$$

$$4 \times 8,98 = " \quad \underline{\underline{35,92}}$$

$$\text{Sommano ml. } \underline{\underline{83,52}}$$

$$\text{ml. } 83,52 \times \text{Kg. } 1,998 = " \quad 166,87$$

Ø 14 :

$$3 \times 13,38 = \text{ml. } \underline{\underline{40,14}}$$

$$\text{ml. } 40,14 \times \text{Kg. } 1,208 = " \quad 48,49$$

Ø 10 :

Staffe

$$49 \times 3,98 = \text{ml. } \underline{\underline{195,02}}$$

$$\text{ml. } 195,01 \times \text{Kg. } 0,617 = " \quad 120,33$$

Ø 8 :

$$56 \times 3,11 = \text{ml. } \underline{\underline{174,16}}$$

$$\text{A Riportare ml. } 174,16 \quad \text{Kg. } 4.819,17$$

Riporto ml. 174,16 Kg. 4.819,17

**Reggistaffe:**

4 x 11,26 = " 45,04

Sommano ml. 219,20  
=====

ml. 219,20 x Kg. 0,395 = " 86,58

**Travi 4 - 9/10 e 4'-9'/10'**

Ø 14 :

2 x 4 x 5,85=ml. 46,80

2 x 2 x 7,60 = " 30,40

2 x 3 x 9,42 = " 56,52

Sommano ml. 133,72  
=====

ml. 133,72 x Kg. 1,208 = " 161,53

**Staffe**

Ø 10 :

2 x 16 x 3,58 ml. 114,56  
=====

ml. 114,56 x Kg. 0,617 = " 70,68

Ø 8 :

2 x 10 x 3,54 = ml. 70,80

2 x 34 x 3,75 = " 255,00

**Reggistaffe**

2 x 4 x 6,86 = " 54,88

Sommano ml. 380,68  
=====

ml. 380,68 x Kg. 0,395 = " 150,37

**Travi 10-11 e 10'-11'**

Ø 14 :

2 x 3 x 2,53 = ml. 15,18

2 x 3 x 7,25 = " 43,50

Sommano ml. 58,68  
=====

ml. 58,68 x Kg. 1,808 = " 70,88

**Staffe**

Ø 8 :

2 x 8 x 3,44 = ml. 55,04  
=====

ml. 55,04 x Kg. 0,395 = " 21,74

**Trave 11 - 11'**

Ø 14 :

A Riportare

Kg. 5.380,95

Riporto

Kg. 5.380,95

3 x 2,48 = ml. 7,44  
 3 x 6,42 = " 19,26  
 Sommano ml. 26,70  
 =====

ml. 26,70 x Kg. 1,208 = " 32,25

Staffe

Ø 8 :

9 x 3,44 = ml. 30,96  
 =====

ml. 30,96 x Kg. 0,395 = " 12,23

Piastra vano ascensore  
trasversale.=

Ø 8 :

18 x 2,70 = ml. 48,60  
 18 x 6,59 = " 118,62

Reggistaffe:

4 x 3,56 = " 14,24

Sommano ml. 181,46  
 =====

ml. 181,46 x Kg. 0,395 = " 71,68

Sezione longitudinale

Ø 8 :

19 x 2,48 = ml. 47,12  
 19 x 6,19 = " 117,61

Reggistaffe:

4 x 3,81 = " 15,24

Sommano ml. 179,97  
 =====

ml. 179,67 x Kg. 0,395 = " 71,09

SOMMANO PALAZZINA "1D" ..... Kg. 5.568,20

Ferro per formazione spezzoni pilastri

MISURE DEFINITIVE

PALAZZINA PAL. 1 D

.....

Pil. 1-2-3-4-6-7-8-9-12-13-14-15-16 e

1'-2'-3'-4'-6'-7'-8'-9'-12'-13'-14'-15'.=

Ø 14 :

25 x 8 x 3,84 = ml. 768,00  
 =====

ml. 768,00 x Kg. 1,208 = Kg. 927,74

A Riportare

Kg. 927,74

Kg. 5.568,20

Riparto

Kg. 927,74 Kg. 5.568,20

Staffe :

Ø 6 :

$$25 \times 20 \times 1,66 = \text{ml. } 830,00$$

$$\text{ml. } 830,00 \times \text{Kg. } 0,222 = " 184,26$$

Pil. 5 - 5'.=

Ø 14 :

$$2 \times 6 \times 3,84 = \text{ml. } 46,08$$

$$\text{ml. } 46,08 \times \text{Kg. } 1,208 = " 55,66$$

Staffe :

Ø 6 :

$$2 \times 24 \times 1,72 = \text{ml. } 82,56$$

$$\text{ml. } 82,56 \times \text{Kg. } 0,222 = " 18,33$$

Pil. 10 - 10'.=

Ø 16 :

$$2 \times 6 \times 4,96 = \text{ml. } 59,52$$

$$\text{ml. } 59,52 \times \text{Kg. } 1,578 = " 93,92$$

Staffe

Ø 6 :

$$2 \times 29 \times 1,60 = \text{ml. } 92,80$$

$$\text{ml. } 92,80 \times \text{Kg. } 0,222 = " 20,60$$

Pil. 11 - 11'.=

Ø 14 :

$$2 \times 6 \times 3,84 = \text{ml. } 46,08$$

$$\text{ml. } 46,08 \times \text{Kg. } 1,208 = " 55,66$$

Staffe

Ø 6 :

$$2 \times 29 \times 1,60 = \text{ml. } 92,80$$

$$\text{ml. } 92,80 \times \text{Kg. } 0,222 = " 20,60$$

S O M M A N O ..... Kg. 449,03

Ferri di fuga sistemati agli spigoli dei pilastri per aumentare la sezione.=

A Riportare

Kg. 6.017,23

Riporto

Kg. 6.017,23

Pil. 1-2-3-4-5-6-7-8-9-10-11-  
12-13-14-15-16- e  
1'-2'-3'-4'-5'-6'-7'-8'-  
9'-10'-11'-12'-13'-14'-15'.=

Ø 8 :

$$31 \times 4 \times 3,42 = \text{ml. } 424,08$$

$$\text{ml. } 424,08 \times \text{Kg. } 0,395 = \text{Kg. } 167,51$$

Staffe:

Pil. 1-2-3-4-6-7-8-9-13-14-15-16 e  
1'-2'-3'-4'-6'-7'-8'-9'-13'-  
14'-15'.=

Ø 6 :

$$25 \times 4 \times 1,90 = \text{ml. } 190,00$$

$$\text{ml. } 190,00 \times \text{Kg. } 0,222 = " 42,18$$

Pil. 5-10-11 e 5'-10'-11'.=

Ø 6 :

$$6 \times 4 \times 2,30 = \text{ml. } 55,20$$

$$\text{ml. } 55,20 \times \text{Kg. } 0,222 = " 12,25$$

S O M M A N O ..... Kg. 221,94

Ferro per formazione travi porta  
muratura.=

ELEMENTO 1 D

Tratti longitudinali :

Ø 14 :

$$2 \times 6 \times 10,03 = \text{ml. } 120,36$$

$$\text{ml. } 120,36 \times \text{Kg. } 1,208 = \text{Kg. } 145,39$$

Staffe:

Ø 8 :

$$2 \times 48 \times 1,84 = \text{ml. } 176,64$$

$$\text{ml. } 176,64 \times \text{Kg. } 0,395 = " 69,77$$

Ø 14 :

$$6 \times 9,46 = \text{ml. } 56,76$$

$$\text{ml. } 56,76 \times \text{Kg. } 1,208 = " 68,57$$

A Riportare

Kg. 383,73

Kg. 6.239,14

Kg. 283,73 Kg. 6.239,17

Staffe:

Ø 8 :

$$43 \times 1,84 = \underline{\underline{\text{ml. } 79,12}}$$

$$\text{ml. } 79,12 \times \text{Kg. } 0,395 = " 31,25$$

Tratti trasversali:

Ø 14 :

$$4 \times 6 \times 5,81 = \underline{\underline{\text{ml. } 139,44}}$$

$$\text{ml. } 139,44 \times \text{Kg. } 1,208 = " 168,44$$

Staffe

Ø 8 :

$$4 \times 28 \times 1,84 = \underline{\underline{\text{ml. } 191,36}}$$

$$\text{ml. } 191,36 \times \text{Kg. } 0,395 = " 75,59$$

Ø 14 :

$$4 \times 6 \times 3,99 = \underline{\underline{\text{ml. } 95,76}}$$

$$\text{ml. } 95,76 \times \text{Kg. } 1,208 = " 115,68$$

Staffe

Ø 8 :

$$4 \times 18 \times 1,84 = \underline{\underline{\text{ml. } 132,48}}$$

$$\text{ml. } 132,48 \times \text{Kg. } 0,395 = " 52,33$$

Ø 14 :

$$6 \times 2,58 = \underline{\underline{\text{ml. } 15,48}}$$

$$\text{ml. } 15,48 \times \text{Kg. } 1,208 = " 18,70$$

Staffe

Ø 8 :

$$11 \times 1,84 = \underline{\underline{\text{ml. } 20,24}}$$

$$\text{ml. } 20,24 \times \text{Kg. } 0,395 = " 7,99$$

Ø 14 :

$$6 \times 5,13 = \underline{\underline{\text{ml. } 30,78}}$$

$$\text{ml. } 30,78 \times \text{Kg. } 1,208 = " 37,18$$

Staffe

Ø 8 :

$$25 \times 1,84 = \underline{\underline{\text{ml. } 46,00}}$$

$$\text{ml. } 46,00 \times \text{Kg. } 0,395 = " 18,17$$

Ø 14 :

$$6 \times 3,41 = \underline{\underline{\text{ml. } 20,46}}$$

$$\text{ml. } 20,46 \times \text{Kg. } 1,208 = " 24,71$$

A Riportare

Kg. 833,77

Kg. 6.239,17

Riporto

Kg. 833,77 Kg. 6.239,17

Staffe

Ø 8 :

14 x 1,84 = ml. 25,76  
=====

ml. 25,76 x Kg. 0,395 = " 10,17

Ø 14 :

2 x 6 x 2,86 = ml. 34,32  
=====

ml. 34,32 x Kg. 1,208 = " 41,46

Ø 8 :

staffe

2 x 8 x 1,84 = ml. 29,44  
=====

ml. 29,44 x Kg. 0,395 = " 11,63

S O M M A N O ..... Kg. 897,03

T O T A L E ELEMENTO 1 D ..... Kg. 7.136,20

PAL. ELEMENTO 4CB e 5CB  
\*\*\*\*\*

Calcestruzzo per formazione  
spezzoni di pulastri che ri-  
entrano nei lavori a misura  
cioè entro la quota di for-  
fait.=

MISURE DEFINITIVE  
=====

ELEMENTO 4CB  
\*\*\*\*\*

Pil. 1-6-10-2-3-4-5-11 (4-3-2-1-  
10-6-11)'

7-8-9-12-13 (7-8-9-12-13)':

$$25 \times 0,50 \times 0,50 \times 1,41^m = mc. \quad 8,81$$

Pil. 15-16-17 (15-16-17)'

$$6 \times 0,35 \times 0,55 \times 1,41^m = " \quad 1,63$$

Pil. 14-14' :

$$2 \times 0,25 \times 0,55 \times 1,41^m = " \quad 0,39$$

SOMMANO: Elemento 4CB ..... mc. 10,83

ELEMENTO 5CB  
\*\*\*\*\*

Pil. 1-6-10-2-3-4-5-11 (4-3-2-  
1-10-6-11)'

7-8-9-12-13 (7-8-9-12-13)':

$$25 \times 0,50 \times 0,50 \times 0,84^m = mc. \quad 5,25$$

Pil. 15-16-17 (15-16-17)'

$$6 \times 0,35 \times 0,55 \times 0,84^m = " \quad 0,97$$

Pil. 14-14'

$$2 \times 0,25 \times 0,55 \times 0,84^m = " \quad 0,23$$

SOMMANO: Elemento 5CB ..... mc. 6,45

T O T A L E : ELEMENTO 4CB e 5CB .... mc. 17,28

Calcestruzzo per formazione  
cordola d'irrigidimento

Tratto 10-10' e 1-1'

$$2 \times 25,15 \times 0,50 \times 0,30 = mc. \quad 7,54$$

A Riportare mc. 7,54 mc. 17,28

|                               |     |      |     |       |
|-------------------------------|-----|------|-----|-------|
| Riporto                       | mc. | 7,54 | mc. | 17,28 |
| <u>Tratto 6-6'</u>            |     |      |     |       |
| 10,55 x 0,50 x 0,30           | = " | 1,58 |     |       |
| <u>Tratto 16'-16</u>          |     |      |     |       |
| 10,40 x 0,50 x 0,30           | = " | 1,56 |     |       |
| <u>Tratto 15-15'</u>          |     |      |     |       |
| 3,20 x 0,25 x 0,30            | = " | 0,24 |     |       |
| <u>Tratto 14-14'</u>          |     |      |     |       |
| 1,40 x 0,25 x 0,30            | = " | 0,10 |     |       |
| <u>Tratti 1-10 e 1'-10':</u>  |     |      |     |       |
| 2 x 8,60 x 0,50 x 0,30        | = " | 2,58 |     |       |
| <u>Tratto 2-7 e 2'-7'</u>     |     |      |     |       |
| 2 x 4,50 x 0,50 x 0,30        | = " | 1,35 |     |       |
| <u>Tratti 15-17 e 15'-17'</u> |     |      |     |       |
| 2 x 4,60 x 0,25 x 0,30        | = " | 0,69 |     |       |
| <u>Tratti 14-15 e 14'-15'</u> |     |      |     |       |
| 2 x 1,70 x 0,25 x 0,30        | = " | 0,25 |     |       |
| <u>Tratto S - 14/14'</u>      |     |      |     |       |
| 1,95 x 0,50 x 0,30            | = " | 0,29 |     |       |
| SOMMANO: Elemento 40B .....   |     |      | mc. | 16,18 |

Calcestruzzo per formazione  
cordoli porta muratura e por-  
ta tramezzi.=

ELEMENTO 40B

Tratti longitudinali:

|                     |       |      |
|---------------------|-------|------|
| 7,50 x 1,00 x 0,30  | = mc. | 2,25 |
| 2,40 x 1,50 x 0,30  | = "   | 1,08 |
| 1,55 x 0,60 x 0,30  | = "   | 0,28 |
| 16,30 x 0,60 x 0,30 | = "   | 2,93 |
| 2,40 x 0,60 x 0,30  | = "   | 0,43 |
| 5,60 x 0,40 x 0,30  | = "   | 0,67 |
| 6,15 x 0,40 x 0,30  | = "   | 0,74 |

Tratti trasversali:

|                        |     |      |
|------------------------|-----|------|
| 2 x 3,60 x 0,60 x 0,30 | = " | 1,30 |
|------------------------|-----|------|

|             |     |      |     |       |
|-------------|-----|------|-----|-------|
| A Riportare | mc. | 9,68 | mc. | 33,46 |
|-------------|-----|------|-----|-------|

= 1.00 =

|                             |     |       |     |       |
|-----------------------------|-----|-------|-----|-------|
| Riporto                     | mc. | 9,68  | mc. | 33,46 |
| 2 x 2,15 x 0,40 x 0,30      | = " | 0,52  |     |       |
| 2,50 x 0,60 x 0,30          | = " | 0,45  |     |       |
| 4 x 2,20 x 0,40 x 0,30      | = " | 1,06  |     |       |
|                             |     | <hr/> |     |       |
| SOMMANO: Elemento 4CB ..... |     |       | "   | 11,71 |

ELEMENTO 5CB  
\*\*\*\*\*

Tratti longitudinali e  
trasversali.=

|                                      |       |       |
|--------------------------------------|-------|-------|
| Idem al volume dell'Ele<br>mento 4CB | = mc. | 11,71 |
| 16,80 x 0,50 x 0,30                  | = "   | 2,52  |
| 2 x 7,05 x 0,50 x 0,30               | = "   | 2,11  |
| 3,20 x 0,25 x 0,30                   | = "   | 0,24  |
| 1,40 x 0,25 x 0,30                   | = "   | 0,10  |
| 2 x 4,60 x 0,25 x 0,30               | = "   | 0,69  |
| 2 x 1,70 x 0,25 x 0,30               | = "   | 0,25  |
|                                      |       | <hr/> |

SOMMANO: Elemento 5CB ..... " 17,62

T O T A L E: ELEMENTO 4CB e 5CB ..... mc. 62,79  
=====

# PAL. ELEMENTO 6B - 7B

Calcestruzzo per formazione  
spezzoni di pilastri che rien-  
trano nei lavori a misura e  
cioè entro la quota di forfait.=

## ELEMENTO 6B

### MISURE DEFINITIVE

Pil. 1-7-18-25-2-6-19-24-8-15-3-4-5  
9-10-11-12-13-14-20-23.=

$$21 \times 0,40 \times 0,40 \times 0,22 = mc. \quad 0,74$$

Pil. 21-22

$$2 \times 0,30 \times 0,40 \times 0,22 = " \quad 0,05$$

Pil. 16-17

$$2 \times 0,25 \times 0,50 \times 0,22 = " \quad 0,05$$

Pil. A1 - A2:

$$2 \times 0,20 \times 0,60 \times 0,22 = " \quad 0,05$$

SOMMANO: ELEMENTO 6B ..... mc. 0,89

## ELEMENTO 7B

Pil. 17-18-25-2-6-19-24-8-15-  
3-4-5-9-10-11-12-13-14-  
20-23.=

$$21 \times 0,40 \times 0,40 \times 0,24 = mc. \quad 0,81$$

Pil. 21-22

$$2 \times 0,30 \times 0,40 \times 0,24 = " \quad 0,06$$

Pil. 16-17

$$2 \times 0,25 \times 0,50 \times 0,24 = " \quad 0,06$$

Pil. A1 - A2:

$$2 \times 0,20 \times 0,60 \times 0,24 = " \quad 0,06$$

SOMMANO: ELEMENTO 7B ..... mc. 0,99

A Riportare

mc. 1,88

| Riporto                                                               | mc. | 1,88 |
|-----------------------------------------------------------------------|-----|------|
| Calcestruzzo per fondazione<br>porta muratura e porta tra-<br>mezzi.= |     |      |

ELEMENTO 6B - 7B

Si richiama il volume dello  
scavo a mano riportato nel-  
la partita di scavo ristret-  
to ammano per fondazione  
box.=

= " 76,55

T O T A L E: ELEMENTO 6B e 7B ..... mc. 78,43

=====

PAL. ELEMENTO 8B - 9D - 10C  
\*\*\*\*\*

Calcestruzzo per formazione  
spezzoni di pilastri che rien-  
trano nei lavori a misura cioè  
entro la quota di forfait.=

MISURE DEFINITIVE  
=====

ELEMENTO 8B  
\*\*\*\*\*

Pil. 1-2-3-4-5-6-7-8-9-10-11-  
12-13-14-15-16-19-20-21-  
22-25-28-29.=

23 x 0,40 x 0,40 x 0,58 = mc. 2,13

Pil. 23-24-17-18-26-27

6 x 0,25 x 0,60 x 0,58 = " 0,52

Pil. A'-A2-A3-A4:

4 x 0,20 x 0,50 x 0,58 = " 0,23

SOMMANO: ELEMENTO 8B ..... mc. 2,88

ELEMENTO 9D  
\*\*\*\*\*

Pil. 1-2-3-4-5-6-7-8-9-10-11-  
12-13-14-15-16-17-18-20-  
23-25-26-29-32-33.=

23 x 0,40 x 0,40 x 0,37 = mc. 1,48

Pil. 19-24:

2 x 0,40 x 0,50 x 0,37 = " 0,15

Pil. 21-22-27-28-30-31

6 x 0,25 x 0,60 x 0,37 = " 0,33

Pil. A1-A2-A3-A4:

4 x 0,20 x 0,50 x 0,37 = " 0,15

SOMMANO: ELEMENTO 9D ..... mc. 2,11

ELEMENTO 10C  
\*\*\*\*\*

Pil. 1-2-3-4-5-6-7-8-9-10-11-  
12-13-14-15-16-17-20-21-  
22-23-26-29-30.=

24 x 0,40 x 0,40 x 0,38 = mc. 1,46

A Riportare mc. 1,46 mc. 4,99

|                                      |     |      |     |      |
|--------------------------------------|-----|------|-----|------|
| Riporto                              | mc. | 1,46 | mc. | 4,99 |
| Pil. 18-19-24-25-27-28:              |     |      |     |      |
| 6 x 0,25 x 0,60 x 0,38               | = " | 0,34 |     |      |
| Pil. A1 - A2 - A3 - A4:              |     |      |     |      |
| 4 x 0,20 x 0,50 x 0,38               | = " | 0,15 |     |      |
| SOMMANO: ELEMENTO 10C .....          |     |      | "   | 1,95 |
| T O T A L E : ELEMENTO 8B - 9D - 10C |     |      | mc. | 6,94 |

Calcestruzzo per fondazione  
porta muri alla zona portico.

Si richiama il volume dello  
scavo a mano riportato nel-  
la partita di scavo ristret-  
to a mano per fondazione mu-  
ri zona portico.=

= mc. 36,69

TOTALE GENERALE ELEMENTO 8B - 9D - 10C .... mc. 43,63

=====

PAL. ELEMENTO 2C - 3D

\*\*\*\*\*

Calcestruzzo per formazione  
spezzoni di pilastri che rien-  
trano nei lavori a misura cioè  
entro la quota di forfaif (esclu-  
so lo spessore dei cordoli).=

MISURE DEFINITIVE

=====

ELEMENTO 2C

\*\*\*\*\*

Pil. 1-6-11-12-13-14-15  
(1-6-12-11-13-14)'

13 x 0,50 x 0,50 x 1,66 = mc. 5,39

Pil. 2-3-4-7-8-9  
(2-3-4-7-8-9)'

12 x 0,50 x 0,50 x 1,51 = " 4,53

Pil. 5-10-16(5-10-16)'

6 x 0,30 x 0,60 x 1,51 = " 1,63

SOMMANO: ELEMENTO 2C ..... mc. 11,55

ELEMENTO 3D

\*\*\*\*\*

Pil. 1-6'-11':

3 x 0,50 x 0,50 x 1,66 = mc. 1,24

Pil. 1-6-11-12-13-14-15  
(12-13-14-15)'

11 x 0,50 x 0,50 x 3,72 = " 10,23

Pil. 2-3-4-7-8-9  
(2-3-4-7-8-9)'

12 x 0,50 x 0,50 x 3,57 = " 10,71

Pil. 5-10-16(5-10-16)'

6 x 0,30 x 0,60 x 3,57 = " 3,85

SOMMANO: ELEMENTO 3D ..... mc. 26,03

T O T A L E: ELEMENTO 2C - 3D ..... mc. 37,58

A Riportare

mc. 37,58

Riporto

mc. 37,58

Calcestruzzo per formazione  
cordolo di irrigidimento  
porta muratura:

ELEMENTO 2C  
\*\*\*\*\*

Tratti 1-2 e 6-7 (1-2 e 6-7)'

$$4 \times 2,90 \times 0,50 \times 0,25 = \text{mc.} \quad 1,45$$

Tratti 11 - 11'

$$24,50 \times 0,50 \times 0,25 = " \quad 3,06$$

Tratti 6-1 (6-1)'

$$2 \times 4,90 \times 0,50 \times 0,25 = " \quad 1,22$$

Tratto 15-10

$$3,65 \times 0,50 \times 0,25 = " \quad 0,46$$

Tratti 2-2' - 7-7'

$$2 \times 18,70 \times 0,60 \times 0,40 = " \quad 8,98$$

Tratti 11-6 e 11'-6'

$$2 \times 3,80 \times 0,50 \times 0,25 = " \quad 0,95$$

Tratti 7 2/3; 7' - 2' 1/3'

$$2 \times 4,00 \times 0,40 \times 0,40 = " \quad 1,28$$

$$2 \times \frac{1,50 + 0,75}{2} \times 0,40 = " \quad 0,90$$

$$2 \times \frac{2,60 + 0,40}{2} \times 1,00 \times 0,40 = " \quad 1,20$$

Tratti 5-10 e 5'-10'

$$2 \times 5,00 \times 0,30 \times 0,40 = " \quad 1,20$$

Tratti longitudinali porta  
tramezzi:

$$2 \times (1,95 + 1,95 + 2,00) \times 0,20 \times 0,40 = " \quad 0,94$$

Tratti trasversali porta  
tramezzi:

$$2 \times 2 \times 5,00 \times 0,20 \times 0,40 = " \quad 1,60$$

SOMMANO: ELEMENTO 2C

mc. 23,24

ELEMENTO 3D  
\*\*\*\*\*

Tratti: 1-2 e 1'-2' e 6-7 e 6'-7'

A Riportare

mc. 60,82

| Rapporto                                |       | mc.   | 60,82 |
|-----------------------------------------|-------|-------|-------|
| 4 x 2,90 x 0,50 x 0,25                  | = mc. | 1,45  |       |
| <u>Tratto 11-11'</u>                    |       |       |       |
| 27,50 x 0,50 x 0,25                     | = "   | 3,44  |       |
| <u>Tratti 6-1 e 6'-1':</u>              |       |       |       |
| 2 x 4,90 x 0,50 x 0,25                  | = "   | 1,22  |       |
| <u>Tratti 11-6 e 11'-6':</u>            |       |       |       |
| 2 x 3,80 x 0,50 x 0,25                  | = "   | 0,95  |       |
| <u>Tratto 15-10</u>                     |       |       |       |
| 3,60 x 0,50 x 0,25                      | = "   | 0,45  |       |
| <u>Tratti 2-2' - 7-7'</u>               |       |       |       |
| 2x 21,70 x 0,60 x 0,40                  | = "   | 10,42 |       |
| <u>Tratti 8-3 e 8'-3':</u>              |       |       |       |
| 2 x 5,00 x 0,40 x 0,40                  | = "   | 1,60  |       |
| 2 x 2 x $\frac{0,70 + 0,70}{2}$ x 0,40  | = "   | 0,11  |       |
| <u>Tratti 5-10 e 5'-10'</u>             |       |       |       |
| 2 x 5,00 x 0,30 x 0,40                  | = "   | 1,20  |       |
| Tratti longitudinali<br>porta muratura: |       |       |       |
| 2x(1,95+1,95+2,00)x0,20x0,40=           | "     | 0,94  |       |
| Tratti trasversali<br>porta muratura:   |       |       |       |
| 2x2x5,00 x 0,20 x 0,40                  | = "   | 1,60  |       |
| SOMMANO: ELEMENTO 3D .....              |       | mc.   | 23,38 |
| T O T A L E : ELEMENTO 2C - 3D .....    |       | mc.   | 84,20 |
|                                         |       | ===== |       |

PAL. ELEMENTO 1D  
\*\*\*\*\*

Calcestruzzo per formazione  
spezzoni di pilastri che  
rientrano nei lavori a misu  
ra cioè entro la quota di  
forfait.=

MISURE DEFINITIVE  
\*\*\*\*\*

Pil. 1-2-3-4-6-7-8-9-12-13-14-  
15-16 e (1-2-3-4-6-7-8-9-  
12-13-14-15)'.=

25 x 0,45 x 0,50 x 1<sup>m</sup>,56 = mc. 8,77

Pil. 5-10-11 e 5'-10'-11':

6 x 0,30 x 0,60 x 1<sup>m</sup>,56 = " 1,68

SOMMANO: Elemento ID ..... mc. 10,45

Calcestruzzo per formazione  
travi porta muratura e por-  
ta tramezzi.=

Si richiama il volume dello  
scavo a mano riportato nel-  
la partita di scavo ristret-  
to a mano per fondazioni  
box.=

SOMMANO ..... mc. 26,68

T O T A L E: ELEMENTO 1D ..... mc. 37,13

\*\*\*\*\*

PAL. 1D  
 .....

Muratura di tufo di spessore  
 superiore a cm.20 posta in  
 opera con malta comune.=

Muratura perimetrale box pog  
 giante sulla testa trave ro-  
 vescia fino a quota forfait.=

Tratto 1 - 1'

|                        |       |      |
|------------------------|-------|------|
| 2 x 2,00 x 0,50 x 1,56 | = mc. | 3,12 |
| 2 x 2,50 x 0,50 x 1,56 | = "   | 3,90 |
| 2 x 4,20 x 0,50 x 1,56 | = "   | 6,55 |
| 2,70 x 0,50 x 1,56     | = "   | 2,11 |

Tratto 7 - 7':

|                            |     |      |
|----------------------------|-----|------|
| 2 x 2 x 2,80 x 0,50 x 1,56 | = " | 8,74 |
| 2 x 3,05 x 0,50 x 1,56     | = " | 4,76 |
| 1,40 x 0,50 x 1,56         | = " | 1,09 |

Tratto scala:

|                            |     |      |
|----------------------------|-----|------|
| 2x(1,45 + 2,70)x0,50x 1,56 | = " | 6,47 |
|----------------------------|-----|------|

Tratti ascensore:

|                        |     |      |
|------------------------|-----|------|
| 2 x 1,10 x 0,50 x 1,56 | = " | 1,72 |
|------------------------|-----|------|

SOMMARIO: Elemento 1D .....

mc. 38,46

=====

PAL. 2C - 3D

\*\*\*\*\*

Muratura di tufo di spessore  
superiore a cm.20 posta in  
opera con malta comune.=

ELEM. 2C - 3D

Muratura box poggiate sulla  
testa cordolo fino a quota forfait:

Tratti longitudinali:

|                                           |       |       |
|-------------------------------------------|-------|-------|
| 2 x 2 x 6,20 x 0,27 x 0 <sup>m</sup> ,56  | = mc. | 3,75  |
| 2 x 2 x 16,00 x 0,50 x 0 <sup>m</sup> ,56 | = "   | 17,92 |

Tratti trasversali:

|                                          |     |       |
|------------------------------------------|-----|-------|
| 2 x 4 x 6,40 x 0,50 x 0 <sup>m</sup> ,56 | = " | 14,34 |
| 2 x 4 x 3,40 x 0,27 x 0 <sup>m</sup> ,56 | = " | 4,11  |
| 2 x 2,50 x 0,50 x 0 <sup>m</sup> ,56     | = " | 1,40  |

SOMMANO : ELEMENTO 2C - 3D .....

mc. 41,52

=====

# PAL. ELEMENTO 8B - 9D - 10C

Muratura di tufo di spessore superiore a cm.20 posti in opera con malta comune.=

Muratura vano scala ed ascensore poggiate sulla porta trave rovesce fino a quota forfait :

## ELEMENTO 9D e 10C

Tratti longitudinali:

|                            |       |      |
|----------------------------|-------|------|
| 2 x 2 x 2,45 x 0,45 x 0,38 | = mc. | 1,67 |
| 2 x 2 x 1,40 x 0,45 x 0,38 | = "   | 0,96 |

Tratti trasversali:

|                            |     |      |
|----------------------------|-----|------|
| 2 x 2 x 6,75 x 0,45 x 0,38 | = " | 4,62 |
| 2 x 2 x 0,90 x 0,45 x 0,38 | = " | 0,61 |

|                                  |     |      |
|----------------------------------|-----|------|
| SOMMANO: Elemento 9D e 10C ..... | mc. | 7,86 |
|----------------------------------|-----|------|

## ELEMENTO 8 B

Tratti longitudinali:

|                        |       |      |
|------------------------|-------|------|
| 2 x 2,45 x 0,45 x 0,58 | = mc. | 1,28 |
| 2 x 1,40 x 0,45 x 0,58 | = "   | 0,73 |

Tratti trasversali:

|                        |     |      |
|------------------------|-----|------|
| 2 x 6,75 x 0,45 x 0,58 | = " | 3,52 |
| 2 x 0,90 x 0,45 x 0,58 | = " | 0,47 |

|                            |   |      |
|----------------------------|---|------|
| SOMMANO: Elemento 8B ..... | " | 6,00 |
|----------------------------|---|------|

|                                       |     |       |
|---------------------------------------|-----|-------|
| T O T A L E: ELEMENTO 8B - 9D - 10C . | mc. | 13,86 |
|---------------------------------------|-----|-------|

=====

PAL. ELEMENTO 6B - 7B  
 \*\*\*\*\*

Muratura di tufo di spessore  
 superiore a cm.20 posta in  
 opera con malta comune.=

Muratura perimetrale box pog  
 giante sulla testa trave ro-  
 vescia fino a quota forfait.=

Tratti longitudinali :

|                                             |      |
|---------------------------------------------|------|
| 2 x 15,60 x 0,50 x 0 <sup>m</sup> ,24 = mc. | 3,74 |
| 2 x 2,95 x 0,50 x 0 <sup>m</sup> ,24 = "    | 0,71 |
| 2 x 1,40 x 0,50 x 0 <sup>m</sup> ,24 = "    | 0,34 |

Tratti trasversali:

|                                              |      |
|----------------------------------------------|------|
| 2 x 4 x 5,75 x 0,50 x 0 <sup>m</sup> ,24 = " | 5,52 |
| 2 x 2 x 2,50 x 0,50 x 0 <sup>m</sup> ,24 = " | 1,20 |

SOMMANO: Elemento 6B - 7B .....

mc. 11,51

=====

PAL. ELEMENTO 4CB - 5CB  
\*\*\*\*\*

Muratura di tufo di spessore  
superiore a cm.20 poste in  
opera con malta comune.=

ELEMENTO 5CB

Muratura perimetrale box pog  
giante sulla testa trave ro-  
vescia fino a quota forfait.

Tratti longitudinali e trasversali:

|                                      |       |      |
|--------------------------------------|-------|------|
| 16,80 x 0,50 x 0 <sup>m</sup> ,84    | = mc. | 7,06 |
| 2 x 7,05 x 0,50 x 0 <sup>m</sup> ,84 | = "   | 5,92 |
| 3,20 x 0,27 x 0 <sup>m</sup> ,84     | = "   | 0,72 |
| 1,40 x 0,27 x 0 <sup>m</sup> ,84     | = "   | 0,32 |
| 2 x 4,60 x 0,50 x 0 <sup>m</sup> ,84 | = "   | 3,86 |
| 2 x 1,70 x 0,50 x 0 <sup>m</sup> ,84 | = "   | 1,43 |

SOMMANO: ELEMENTO 5CB .....

mc. 19,31

\*\*\*\*\*

# RIEPILOGO GENERALE

- Scavo di materie di qualsiasi natura e consistenza eseguito a mano, ecc. :

|                    |       |        |
|--------------------|-------|--------|
| PAL. 4CB - 5CB     | = mc. | 904,25 |
| PAL. 6B - 7B       | = "   | 335,78 |
| PAL. 8B - 9D - 10C | = "   | 942,74 |
| PAL. 2C - 3D       | = "   | 992,42 |
| PAL. 1D            | = "   | 612,52 |

SOMMARIO

|              |       |                 |
|--------------|-------|-----------------|
| mc. 3.787,71 | 1.320 | £. 4.999.777,20 |
| =====        |       |                 |

- Idem come sopra ma eseguito con mezzi meccanici, ecc. :

|                    |       |        |
|--------------------|-------|--------|
| PAL. 4CB - 5CB     | = mc. | 128,04 |
| PAL. 6B - 7B       | = "   | 518,22 |
| PAL. 8B - 9D - 10C | = "   | 714,98 |
| PAL. 2C - 3D       |       |        |
| PAL. 1D            |       |        |

SOMMARIO

|              |     |                |
|--------------|-----|----------------|
| mc. 1.361,24 | 900 | " 1.225.116,00 |
| =====        |     |                |

- Calcestruzzo dosato a Kg.200 per opere di fondazione, ecc.:

|                    |       |        |
|--------------------|-------|--------|
| PAL. 4CB - 5CB     | = mc. | 70,48  |
| PAL. 6B - 7B       | = "   | 38,31  |
| PAL. 8B - 9D - 10C | = "   | 51,19  |
| PAL. 2C - 3D       | = "   | 169,80 |
| PAL. 1D            | = "   | 56,88  |

SOMMARIO

|            |       |                |
|------------|-------|----------------|
| mc. 386,66 | 9.350 | " 3.615.271,00 |
| =====      |       |                |

- Calcestruzzo dosato a Kg.300 per travi di fondazione, ecc.:

|                    |       |        |
|--------------------|-------|--------|
| PAL. 4CB - 5CB     | = mc. | 194,70 |
| PAL. 6B - 7B       | = "   | 190,31 |
| PAL. 8B - 9D - 10C | = "   | 314,01 |
| PAL. 2C - 3D       | = "   | 185,84 |

a riportare

|            |                 |
|------------|-----------------|
| mc. 884,86 | £. 9.840.164,20 |
|------------|-----------------|

|         |         |       |        |        |                 |
|---------|---------|-------|--------|--------|-----------------|
|         | riporto | mc.   | 884,86 |        | £. 9.840.164,20 |
| PAL. 1D |         | = "   | 112,30 |        |                 |
|         | SOMMANO | mc.   | 997,16 | 13.500 | " 13.461.660,00 |
|         |         | ===== |        |        |                 |

- Ferro omogeneo in opera sagomato per cemento armato, ecc. :

|                    |         |           |           |     |                 |
|--------------------|---------|-----------|-----------|-----|-----------------|
| PAL. 4CB - 5CB     | = Kg.   | 21.686,19 |           |     |                 |
| PAL. 6B - 7D       | = Kg.   | 20.387,05 |           |     |                 |
| PAL. 8B - 9D - 10C | = "     | 29.303,79 |           |     |                 |
| PAL. 2C - 3D       | = "     | 18.173,33 |           |     |                 |
| PAL. 1D            | = "     | 7.136,20  |           |     |                 |
|                    | SOMMANO | Kg.       | 96.686,56 | 150 | " 14.502.984,00 |
|                    |         | =====     |           |     |                 |

- Calcestruzzo dosato a Kg.300 per pilastri travi e solette ecc. :

|                    |         |       |        |        |                |
|--------------------|---------|-------|--------|--------|----------------|
| PAL. 4CB - 5CB     | = mc.   | 62,79 |        |        |                |
| PAL. 6B - 7B       | = "     | 78,43 |        |        |                |
| PAL. 8B - 9D - 10C | = "     | 43,63 |        |        |                |
| PAL. 2C - 3D       | = "     | 84,20 |        |        |                |
| PAL. 1D            | = "     | 37,13 |        |        |                |
|                    | SOMMANO | mc.   | 306,18 | 15.500 | " 4.745.790,00 |
|                    |         | ===== |        |        |                |

- Muratura tutta tufo e malta comune in opera, ecc. :

|                    |         |       |        |       |              |
|--------------------|---------|-------|--------|-------|--------------|
| PAL. 4CB - 5CB     | = mc.   | 38,46 |        |       |              |
| PAL. 6B - 7B       | = "     | 41,52 |        |       |              |
| PAL. 8B - 9D - 10C | = "     | 13,86 |        |       |              |
| PAL. 2C - 3D       | = "     | 11,51 |        |       |              |
| PAL. 1D            | = "     | 19,31 |        |       |              |
|                    | SOMMANO | mc.   | 124,66 | 6.600 | " 822.756,00 |
|                    |         | ===== |        |       |              |

SOMMANO LAVORI ..... £. 43.373.354,20

A Riportare ..... £. 43.373.354,20

Riporto SOMMA LAVORI ..... £. 43.373.354,20

**P R E V E N T I V O :**

|                                             |                  |
|---------------------------------------------|------------------|
| = OPERE INERENTI LE FONDAZIONI .....        | £. 22.011.389,34 |
| = RESTA UNA MAGGIORE SPESA .....            | £. 21.361.964,86 |
| A dedurre il ribasso d'asta del 7,55% ..... | " 1.612.828,35   |
| RE S T A N O   N E T T E .....              | £. 19.749.136,51 |

BRINDISI, Li 12.11.1969

IL DIRETTORE DEI LAVORI  
(Dott. Ing. Giovanni ROMA)

V i s t o :

IL PRESIDENTE

(Gr. Uff. Com. te U. G. VALLARINO)

