

CEP BRINDISI
 fabbricato n° 4.
 Solai di copertura

Tipo 2000

$l_1 = 35$

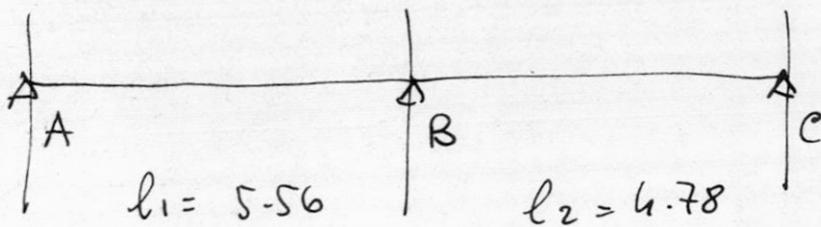
littezza 80.

Carico a mp. 650 kg/m^2

" a ml $650 \times 0.80 = 520 \text{ kg/m}$.

Ing. VITO GIORGIO COLAIANNI

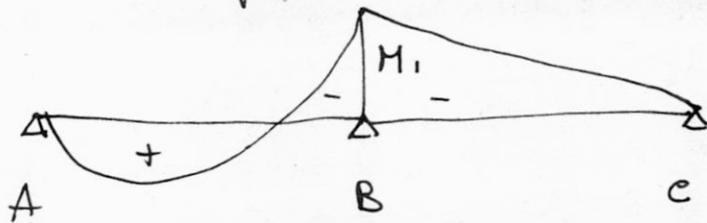
Consorzio Ravennate
 delle Coop. di Produzione e Lavoro



$$l_1 = 5.30 \times 1.05 = 5.56 \text{ m}$$

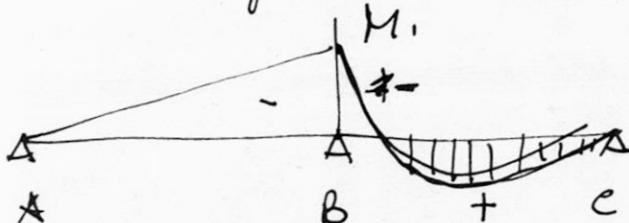
$$l_2 = 4.50 \times 1.05 = 4.78 \text{ m}$$

1^a campata carica:



$$M_1 = \frac{520 \times 5.56^3}{8(5.56 + 4.78)} = 520 \times 2.07 = 1076 \text{ kgm}$$

2^a campata carica



$$M_1 = \frac{520 \times 4.78^3}{8(l_1 + l_2)} = 520 \times 1.32 = 686 \text{ kgm}$$

Sommando gli effetti $M = -1076 - 686 = 1762 \text{ kgm}$.

Momenti fissivi: Trave AB

(2)

$$A = 1762 - 0 = 1762$$

$$pl = 520 \times 5.56 = 2891$$

$$\frac{A}{pl} = \frac{1762}{2891} = 0.60$$

$$x = \frac{5.56}{2} - 0.60 = 2.78 - 0.60 = 2.18 \text{ m}$$

$$M_x^0 = \frac{1}{8} pl^2 = \frac{16075}{8} = 2009 \text{ kpm}$$

$$M_{\text{max}} = 2009 - 1762 \frac{2.18}{5.56} = 2009 - 687 = 1322 \text{ kpm.}$$

Trave Be

$$A = 1762$$

$$A/pl = 0.70$$

$$pl = 2485$$

$$x = \frac{l}{2} - 0.70 = 1.69$$

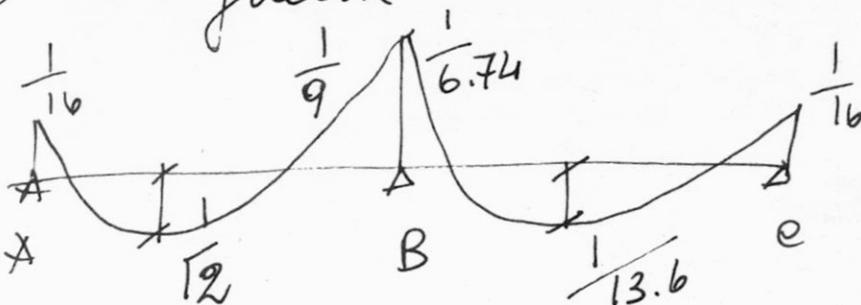
$$x/e = 0.35$$

$$M_x^0 = \frac{pl^2}{8} = \frac{11881}{8} = 1485 \text{ kpm.}$$

$$M_{\text{max}} = 1485 - 0.35 \times 1762 = 1485 - 617 = 868 \text{ kpm.}$$

Per l'appoggio consideriamo un momento
fissi a $\frac{1}{16} pl^2$. App. A $m = 1004 \text{ kpm}$
App. e $m = 742 \text{ ''}$

Per cui il diagramma dei momenti
è il seguente



Solario luce 5.30/5.56

1004		1255	36	35	32	0,888	<25	0,101	2.90	
1302	80	1672	41			0,780	1400	<25	0,101	3.31
1762		2202	47			0,680	28	0,112	4.21	

$$4\phi 6 + 2\phi 12 = 3.39 \text{ messeria}$$

$$2\phi 6 + 2\phi 12 + 1\phi 14 = 4.37 \text{ appoggio interm.}$$

$$2\phi 6 + 2\phi 12 = 2.83 \text{ appoggio esterno -}$$

Solario luce m. 4.50 / 4.78

1762	come appoggio solario precedente									
867	80	1083	33	35	32	0,960	<25	0,101	2.66	
742		927	31	-	-	1,...	<25	0,101	2.50	

$$\text{Appoggio intermedio } 2\phi 6 + 2\phi 12 + 1\phi 14 = 4.37$$

messeria

$$4\phi 6 + 2\phi 10 = 2.70$$

$$\text{Appoggio esterno } 2\phi 6 + 2\phi 12 = 2.83.$$

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