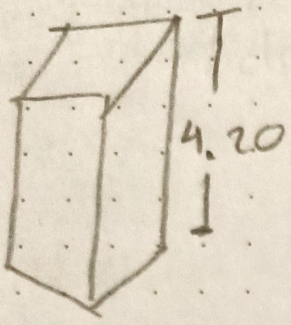


15 X 30 = 4.50
n = < 15 B.m
4.20 < 4.50

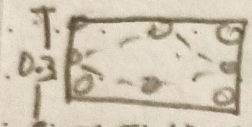
B mín = 0.40
B max = 0.40 x 0.30
B max = 0.12 + 0.30
B max = 0.42 = 0.40m

A = (0.30 x 0.40) x 0.01 = 12 cm²
8

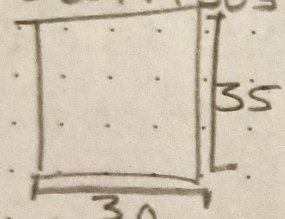
A = 1.5

4 # 4 = (1.27 x 9) = 5.08 cm²
4 # 5 = (1.98 x 4) = 7.92 cm²
13.00 cm²
30 x 45

1" / 8



2 estribos



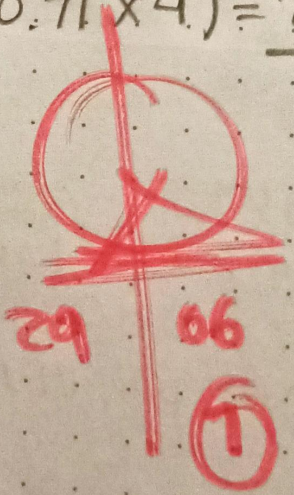
2 estribos

A (0.30 x 0.35) x 0.01 = 10.5 cm²
8

A = 1.3125

4 # 5 = (1.98 x 4) = 7.92 cm²
4 # 3 = (0.71 x 4) = 2.84 cm²
10.76 cm

3 - 4
4 - 5



JESSICA

Trabe

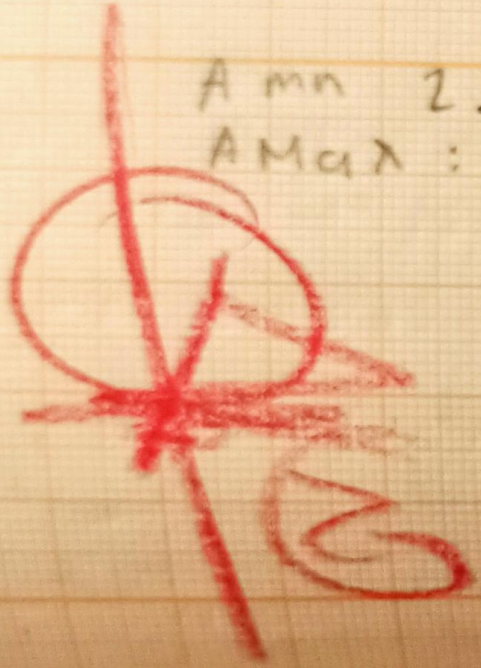
Acero Min b. P/max 0.00235
Acero Max b. P/max 0.01143

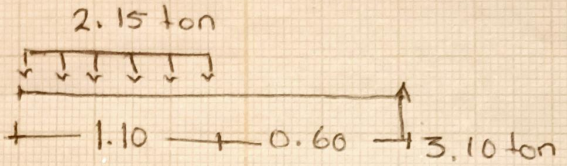
$h = L/12$ $h = 4.80/12 = 0.4$
$B = 0.5$ $B = 0.5(0.4) = 0.2$

$h = 4.80/12 = 0.4$
$B = 0.5(0.5) = 0.2$

Amn 2.828
AMax: 13.716

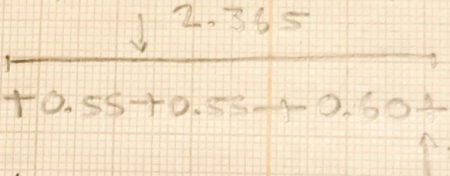
$40 \cdot 30 \cdot 0.00235 = 0.00235$
$40 \cdot 30 \cdot 0.01143 = 13.716$





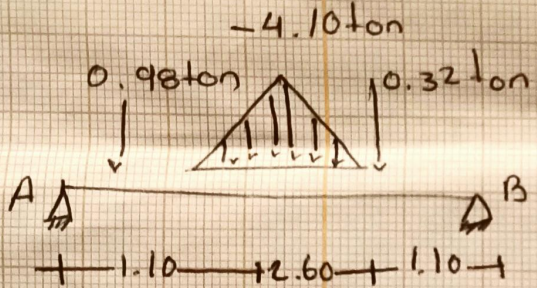
$w \times L \rightarrow 2.15\ ton \times 1.10m = 2.365$

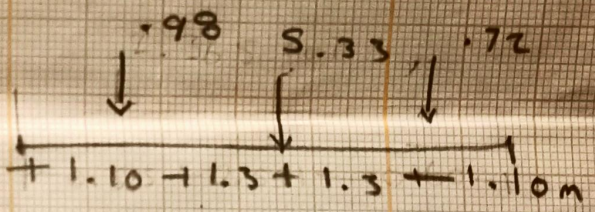
$Up = L/2 \rightarrow 1.10/2 = 0.55$



$(-2.365 \times 0.55) + (3.10\ ton \times 1.7)$ (... $\times 1.7m$)

$-1.3007 + 5.27 = 3.96$ ton-M



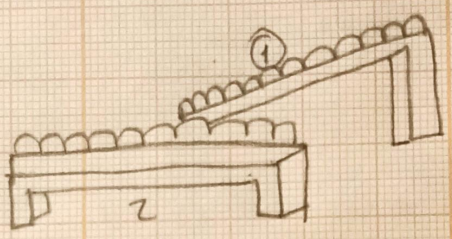


$(-98 \cdot 1.10) + (-5.33 \cdot 2.4) + (-32 \cdot 3.7) + (RB \cdot 4.8)$

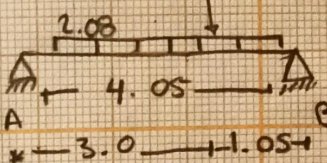
$15.05 + RB + 4.8$

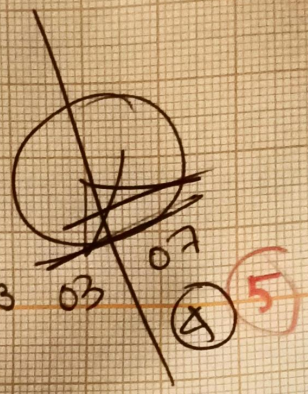
$RB = \frac{15.05}{4.8} = 3.136\ ton$

$MA = RA - .98 - 5.33 - 32 + 3.136 = -3.494\ ton$



① 1.05 ton





$A = (-8.424 - 2.025) + (-1.05 \times 3.) + (RB \cdot 4.05)$

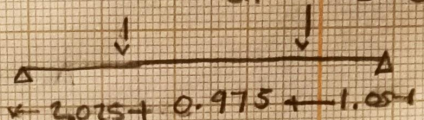
$A = -17.05 - 3.15 + (RB \times 4.05)$

$-17.05 + 3.15 + (RB 4.05)$

$-20.2 + (RB \times 4.05)$

$$\frac{-20.2}{4.05} = +4.987 \text{ ton}$$

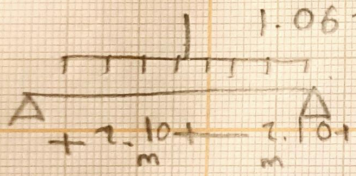
8.424 ton 1.05 ton

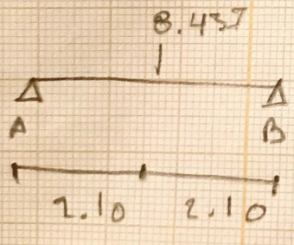


$RA = -8.424 - 1.05 + 4.987 = -4.487$ ton

$4.487 - 8.424 - 1.03 + 4.987 = 0$

② 1.06 t/m



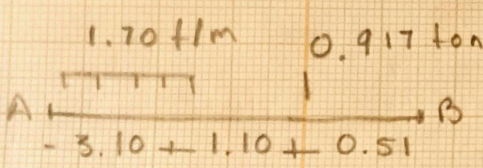


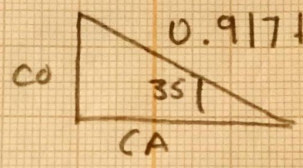
$RA = (8.937 \cdot 2.10) + (RB \cdot 4.20)$

$RA = 18.767 + (RB \cdot 4.20)$

$$RA = \frac{18.767}{4.20} = 4.4683 \text{ ton}$$

$RA = -8.937 + 4.4683 = -4.468$ ton



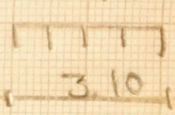


$\text{Sen } \phi = CO/M = CO = \text{sen}\phi(11)$

$\text{Sen } 35°(0.917 \text{ ton}) = 0.525$

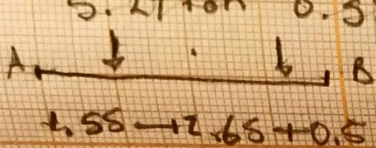
$\cos \phi = CA/M = CA = (\cos 35°(0.917 \text{ ton}))$

0.751 to



$W \cdot L = 1.70 \times 3.10 = 5.27 \text{ ton}$

$Up = 1/2 = 3.10/2 = 1.55 \text{ m}$



$MA = (5.27 \text{ ton} \cdot 1.55) + (0.5259 \text{ ton} \cdot (4.2)] + (RB \cdot 4.7)$

$8.1685 \text{ ton} \cdot m + 2.20878 \text{ ton} \cdot m / 4.7$

$RB = 10.37728 \text{ ton} \cdot m + RB \cdot 4.7$

$RB = 2.2079 \text{ ton}$

$RA = -5.27 - 0.7802 + 2.2079 = 3.8423 \text{ ton} = 0$