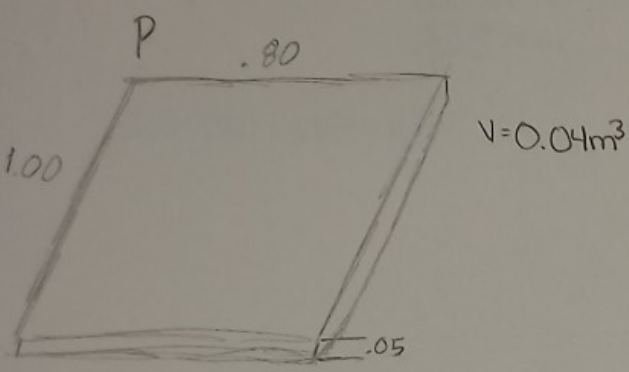


Varilla	ML	Kg/m	Peso	15 %	Total	
#3	4	0.56	2.24	0.336	2.567	
#2	5.92	0.25	1.48	0.222	1.708	
Castillo 15x20 cm					Total	4.269
Armado 4 ϕ #3 E #2 @ 15cm					5% Amarre	0.213
						4.477

$$\begin{array}{r}
 11 \times 2 = 22 \\
 16 \times 2 = 32 \\
 \hline
 54 \\
 + 20 \\
 \hline
 74 \times 8 = 592 \div 100 = 5.92
 \end{array}$$

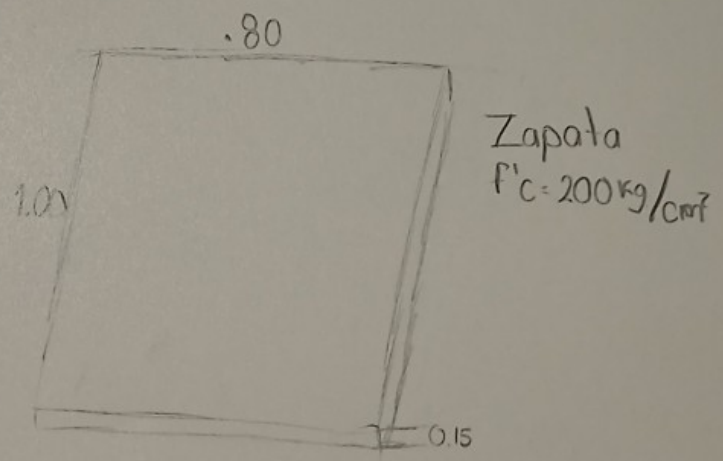
Varilla	ML	Kg/m	Peso	15%	TOTAL
# 3	7	0.56	3.92	0.588	4.508
# 2.5	13.12	0.38	4.985	0.747	5.132
TOTAL					10.24
5% AMARRE					0.512
					10.752

Contrabe 30 x 50 cm ^{15 x 20 cm}
 4 ø #3 E #2 @ 15 cm



Cemento	$5 \times 0.04 \text{ m}^3 = 0.2 \text{ m}^3$
Grava	$0.63 \times 0.04 \text{ m}^3 = 0.0252 \text{ m}^3$
Arena	$0.72 \times 0.04 \text{ m}^3 = 0.0288 \text{ m}^3$
10%	
	$0.2 \text{ m}^3 \times 1.10 = 2.2 \text{ m}^3$
	$0.0252 \text{ m}^3 \times 1.10 = 0.0271 \text{ m}^3$
	$0.0288 \text{ m}^3 \times 1.10 = 0.0316 \text{ m}^3$

Cemento	$7 \times 0.12 \text{ m}^3 = 0.84 \text{ m}^3$
Areno	$0.504 \times 0.12 \text{ m}^3 = 0.0604 \text{ m}^3$
Grava	$0.156 \times 0.12 \text{ m}^3 = 0.01872 \text{ m}^3$
10%	
	$0.84 \text{ m}^3 \times 1.10 = 0.924 \text{ m}^3$
	$0.0604 \text{ m}^3 \times 1.10 = 0.0664 \text{ m}^3$
	$0.01872 \text{ m}^3 \times 1.10 = 0.0206 \text{ m}^3$



Cemento	$7 \times 0.315 \text{ m}^3 = 2.205 \text{ m}^3$
Arena	$0.766 \times 0.315 \text{ m}^3 = 0.238 \text{ m}^3$
Grava	$0.504 \times 0.315 \text{ m}^3 = 0.158 \text{ m}^3$
10%	
	$2.205 \text{ m}^3 \times 1.10 = 2.4255 \text{ m}^3$
	$0.238 \text{ m}^3 \times 1.10 = 0.261 \text{ m}^3$
	$0.158 \text{ m}^3 \times 1.10 = 0.174 \text{ m}^3$

