



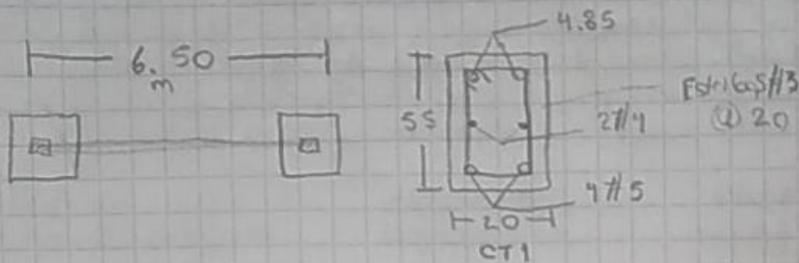
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TALLER DE CONSTRUCCION DE MATERIALES  
BASICOS

CUATRIMESTRE: 5°

LICENCIATURA EN ARQUITECTURA  
PLANTA DE ALBAÑILERÍA.



CONCRETO	UNIDAD	CJE	TRAMO	BASE	LONGITUD	ALTEZA	PLA	TOTAL	OBSERVACION
EXCAVACION	M <sup>3</sup>	1	A-B	0.40m	5.0m	0.55m	1	1.10m <sup>2</sup> +30% de B = 1.43m <sup>2</sup>	CT-1
ACERO N.5	PLA	1	A-B	/	6.88 $\frac{6.50}{0.13 \text{ cm}} = 6.88 \text{ m}$	/	8	59.04m + 7% de B = 59.59m % 12 = 4.90 = 59.59m 13.67m	CT1
ACERO N.4	PLA	1	A-B	0.155	6.81m $\frac{6.50}{0.155 \text{ cm}} = 6.81 \text{ m}$	/	2	15% de B = 17.30m 12m = 11.95m = 2.01m 4.70m	CT1
ACERO N.3	PLA	1	A-D	/	L= 1.30m 0.45 + 1.01 + 0.5 = 1.96m	/	3m	+ 3% de B = 45.58m x 12m = 5.47m = 40.24m = 40.24m	CT1
CONCRETO F <sub>c</sub> ' = 200 Kg/cm <sup>2</sup>	M <sup>3</sup>	A	1-2	0.20m	6.50m	0.55m	1	0.715m <sup>2</sup> 15% de B = 0.750m <sup>2</sup>	CT1

CONCRETO	UNIDAD	DE	TRAMO	BASE	LONGITUD	ALTURA	PZA	TOTAL	OBSERVA
EXCAVACION	M <sup>3</sup>	1	A-B	2.0m	2.0m	1.55m	2	12.4 +3% des 12.77	C-1
ACERO N.1	PZA	1	A-B	/	2.01	/	40	40 x 2.01 80.4 +5% des 84.42m	2-1
CONCRETO F'c=200 kg/cm <sup>2</sup>	M <sup>3</sup>	1	A-B	2.0m	2.0m	0.20	2	1.6 x5% des 1.68m <sup>3</sup> Concreto	2-1
CONCRETO F'c 100 kg/cm <sup>2</sup> Plantilla	M <sup>3</sup>	1	A-B	2.0m	2.0m	0.05	2	0.4 x5% des 0.42m <sup>3</sup>	2-1
ACERO N.3	PZA	1	A-B	/	1.91m	/	41	1.91 x 41 78.36 +3% des 80.81m/12 89.25 #3	2-1
ACERO N.5	PZA	1	A-B	/	2.9	/	8	2.9 x 80.2 23.2 +7% des 24.82m/12 29.78 #5	2-1
ACERO N.6	PZA	1	A-B	/	2.90	/	8	2.90 x 80.2 23.2 +8% des 24.28m/12 29.2 #6	

CONCEPTO	UNIDAD	EJE	TRAMO	BASE	LONGITUD	ALTURA
1. EXCAVACIÓN	M <sup>3</sup>	A	1-2	1.25m	1.25m	1.50m
2. CONCRETO F'c = 100 kg/cm <sup>2</sup>	M <sup>3</sup>	A	1-2	1.25m	1.25m	0.05m
PIEZAS	TOTAL	OBSERVACIÓN				

- 1- 1 2.34 m<sup>2</sup>  
 + 30% Abon = 1.30  
3.04 m<sup>2</sup>
- 2- 1 ~~0.078 m<sup>3</sup>~~  
 + 5% → 1.05 2-1  
0.081 m<sup>3</sup>

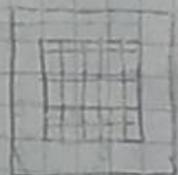
CONCEPTO	UNIDAD	EJE	TRAMO	BASE	LONGITUD	ALTURA
3. ACERO No 3	P2n	A	1-2	/	1.18 m	/
		A	1-2	/	1.18 m	/

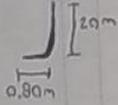
$$1 = 2.54 \text{ cm} \quad 11.50 \quad \boxed{\quad} \quad 11.50 = 1.18 \text{ m}$$

9.5cm

$$(0.95/0.12) \times 1.1 = 3.33 = 8$$

PIEZAS	TOTAL	OBSERVACIONES
<del>0.635</del> 1/4	90° x 12	180° x 14 5° x 10
0.635 1/4	7.50 cm	2.50cm 6.5cm
0.952 3/8	11.50 cm	4.0 cm 10cm
1.27 1/2	<del>15.5cm</del> 15.5cm	5.0 cm 13 cm
1.58 5/8	19 cm	6.5 cm 16 cm
1.905 3/4	23 cm	7.5cm 19 cm
8	9.44m	Horizontales
8	9.44m	verticales
	18.88 m	
	13% = $\frac{19.44m}{12m} = 1.62 = 2 \text{ piezas}$	

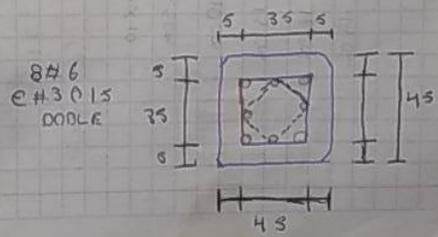




CONCEPTO	UNIDAD	EJE	TRAMO	BASE	LONGITUD	ALTURA	PIEZAS	TOTAL	OBSERVACIONES
CONCRETO f'c=200kg/cm <sup>2</sup>	m <sup>3</sup>	A	1-2	1.05m	1.05m	0.40m	1	0.22m <sup>3</sup>	BASE 2-1
		A	1-2	0.75m	0.75m	1.30m	1	0.26m <sup>3</sup>	ORNO 2-1

ACERO No 6	PZA	A	1-2	/	2.80m	/		0.48 m <sup>3</sup> + 5% = 0.504 m <sup>3</sup>	
							8	22.40m + 8% = 24.19m - 2.01 = 22.18m	

ACERO No 3	PZA	A	1-2	/	1.60m	X		22 35.20m + 3% JORR = 36.23m + 5.1105m ORNO = 41.34m + 19.44m PLANTILLA = 60.78m = 55.67m/12 = 4.63 = 5 PZAS	
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CONCEPTO	UNIDAD	EJE	TRAMO	BASE	LONGITUD	ALTURA	PZA TOTAL	OBSERVACIONES
EXCAVACIÓN	M <sup>3</sup>	B	1-2	1.50m	2.70m	1.55	1 6.273m + 5% 8.16.3m	2-2 7.89m <sup>3</sup>
CONCRETO FC=100kg/cm <sup>2</sup>	M <sup>3</sup>	B	1-2	1.50m	2.70	0.05	1 0.20 x 5% 0.21	2-2 2.12 m <sup>2</sup>
ACERO No 3	PZA	A	1-2	/	1.60	/	2 2	23.2 = 2505 26.23 #12 3 PZA
CONCRETO			1-2	1.4	2.30	25	L = 2.90m x 8 x 3% x 50 = 2.87	2.5 m <sup>3</sup> 1.12 x 1.05 = 1.18 m <sup>3</sup>
ACERO No 8	PZA	A	1-2	/	2.71	/ 18	8	37.94
ACERO No 8	PZA	A	1-2	/	1.61	/ 8	10	4.154.04 51.712 ÷ 12 4.2 = 5 PZA

~~08/02~~