Nombre del profesor:
Abraham Alfonzo Andrade

Nombre del alumno:

Reynaldo Alberto Alfonzo Pérez

Materia

Costos y Presupuestos

Carrera:

Arquitectura

Cuatrimestre:

5°

Unidad:

1°

Lugar:

Comitán de Domínguez Chiapas

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
Total					4.269
5% Amarre					0.213
					4.477

Castillo de 15x20 cm
4∅#3. E#2@15 cm

11x2 = 22
16x2 = 32
       54
      +20
74x8 = 592/100 = 5.92

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
Total	=				4.269
5% Amarre	=				0.269
					4.477

Cadena de desplante
15x20cm 4∅#3. E#2@15cm

26x2 = 52
46x2 = 92
      144
     + 20
164x8 = 1312/100
      = 13.12

Varilla	Mt	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

Contratrabe 30 × 50 cm

15×20cm   4∅#3. E#2 @15cm

0.80

100

0.05
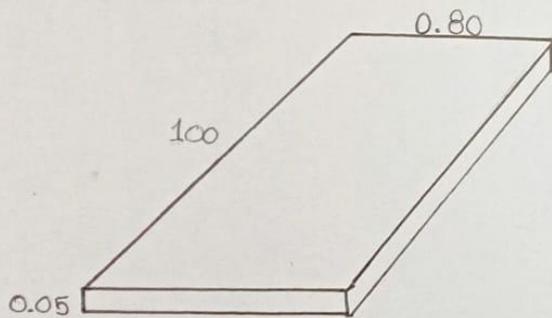
V = 0.04 m³.

Cemento	5 × 0.04m³ = 0.2 m³
Grava	0.63 × 0.04m³ = 0.0252 m³
Arena	0.72 × 0.04m³ = 0.0288 m³
Más 10%	

0.2m³ × 1.10 = 2.2 m³

0.0252 × 1.10 = 0.0271 m³

0.0288 × 1.10 = 0.036 m³

80

1m

0.15
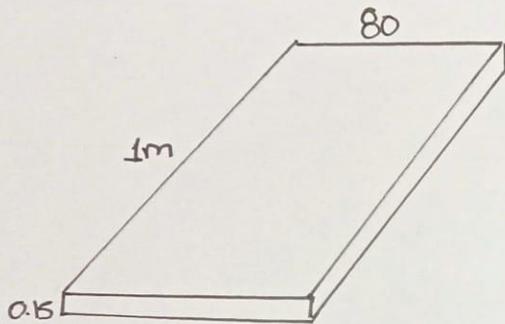
Zapata   f'c =200kg/cm²
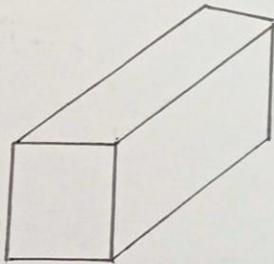
Cemento	$7 \times 0.12m^3 = 0.84m^3$
Arena	$0.504 \times 0.12m^3 = 0.0604$
Grava	$0.156 \times 0.12m^3 = 0.09072$
Más 10%	

$$0.84m^3 \times 1.10 = .924m^3$$
$$0.0907 \times 1.10 = .0997m^3$$
$$0.0604 \times 1.10 = .0669m^3$$

Contratrabe   f'c =200kg/cm²

Cemento	$7 \times 0.315m^3 = 2.205m^3$
Grava	$0.766 \times 0.315 = 0.238 m^3$
Arena	$0.504 \times 0.315 = 0.158m^3$
Más 10%	

$$2.205m^3 \times 1.10 = 2425m^3$$
$$0.238m^3 \times 1.10 = .261m^3$$
$$0.158m^3 \times 1.10 = .174m^3$$