

EXAMEN: CUANTIFICACION DE ZAPATA
2ª UNIDAD

DOCENTE:

PEDRO ALBERTO GARCÍA

ALUMNO:

IRAM GÓMEZ RUEDA

CARRERA:

LICENCIATURA EN ARQUITECTURA

CUATRIMESTRE:

QUINTO

COMITÁN DE DOMÍNGUEZ, CHIAPAS; 19 DE FEBRERO DE 2021

19/02/2021

Excavación

$$(1) (6.85) (1.15) = 7.8975 \text{ m}^3$$

Abastecimiento del 30%

$$(7.8975 \text{ m}^3) (1.3) = 10.26675 \text{ m}^3$$

Varilla corrugada #3
(transversal)

Dobles = $3/8 (6.259) = 2.399$
 $= 0.0095228 \times 12 = 11.45$
 Dobles = 12 //

0.12 |-----| 0.80 |-----| 1.00

long = $0.29 + 0.80 = 1.09 \text{ m}$

- Neces de pzas
 $6.65 / 0.15 + 1 = 45.333 //$

Longitudinales

0.12 |-----| 6.65 |-----| 6.77

long = $0.29 + 6.65 = 6.94 \text{ m}$

M. de varilla $6.94 (4) = 27.76 \text{ m}$

Contratrabe

long = $6 + 0.29 = 6.29 \text{ m}$
 $= 6.29 \text{ m}$
 2 pzas $(6.29) = 12.58 \text{ m}$
 Suma total = 85.2722 m

Desperdicio de 5%

$$(85.2722) (1.05) = 89.53581$$

Concreto F/100 kg/m²

Anchura = 1
 Long = 6.85

Alt = 0.665
 $(1) (6.85) (0.665) = 4.55225$

Desperdicio = 10%

$$(4.55225) (1.1) = 5.007475$$

Concreto F/200 kg/m²

Anchura = 0.80
 long = 6.65
 alt = 0.15

$$(0.80) (6.65) (0.15) = 0.798 \text{ m}^3$$

Contratrabe

Anchura = 0.15
 long = 6
 Alt = 0.35

$$(0.15) (6) (0.35) = 0.315 \text{ m}^3 //$$

Dens = 8,
 $89.53581 \times 8 = 716.28648 \text{ kg}$

10:49 p.m.
19/02/2021



19/02/2021

Varilla #5

Dobles = $(1.587)(12) = 19.044 = 20$

longitud $\rightarrow 0.20$

long = $6m + 0.90m = 6.90m$

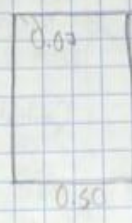
Desperdicio del 3%
(1280m) (1.07m)

Metros $(6.90m)(2\text{ piezas}) = 13.80m = \frac{13.696m}{.2}$

Pesos = $2 \cdot (13.696m)(1.560) = 21.999.36kg$

Varilla #2

Dobles = 0.07



long $1.30 + 0.15 = 1.45m$

Desperdicio del 5%
(59.09m) (1.05)
 $= 60.812m$

Pesos
 $60.812 + 1 = 91$

Metros
(91 pesos) (1.45m)
 $= 54.09m$

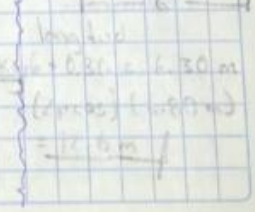
Total en kg $(60.812)(0.25) = 15.2025kg$

Varilla #4

Dobles = $(12)(1.270) = 15.24 = 15$

Pesos $\frac{15.24}{2} = 7.62 = 8$ pesos

Peso = $(8.73)(0.499kg) = 13.183kg$



Desperdicio del 5%
(12.6m) (1.05)
 $= 13.23m$

Metros
(8 pesos) (1.45m)
 $= 11.6m$