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) = 7.6475 m^3

Abundamiento del 30%

(7.6475 m3)(1.3)

= 9.94175 m^3

Varilla corrugada #3 (transversal)

Dobles = 3/8 (6.259

= 0.0095225 x 12 = 11.45

Dobles = 12

0.12 — 0.80 — 0.12

Long = 0.24 + 0.80 = 1.04 m

- Num de pzas

6.65 / 0.15 + 1 = 45.333

Longitudinales

0.12 — 6.65 — 0.12

long = 0.24 + 6.65 = 6.89 m

M. de varilla 6.89 (4) = 27.56 m

Contratrabe

0.12 — 6 — 0.12

long = 6 + 0.24

= 6.24 m

2 pzas (6.24) = 12.48 m

Suma total = 85.3732 m

Desperdicio de 3%

(85.3732)(1.03) = 87.934 / ... = 7.4585...

Diam = 8

49.770924... kg

Concreto F'/100 kg/m²

Anchura = 1

Long = 6.85

Alt = 0.05

(1)(6.85)(0.05)

= 0.3425

Desperdicio 10%

= (0.3425)(1.1) = 0.37675 m^3

Concreto F'/200 kg/m²

Anchura = 0.80

long = 6.65

alt = 0.15

(0.80)(6.65)(0.15) = 0.798 m^3

Contratrabe

Anchura = 0.15

long = 6

Alt = 0.35

(0.15)(6)(0.35) = 0.315 m^3

Desperdicio del 5%

(1.113 m3)(1.05) =

1.16865 m^3

19/02/2021

Varilla #5

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

longitud → 0.20 — 6 — 0.20

long = 6m + 0.90m = 6.90m

Metros (6.90m)(2 pzas) = 12.80m

Pzas = 2

Desperdicio del 7%

(12.80m)(1.07 m)

= 13.696 m

≈ 12 m

(13.696m)(1.560) = 21.997936 kg

Varilla #2

Dobles = 0.07

0.07 — 0.50 — 0.50

long 1.30 + 0.19

= 1.49 m

Pzas

6/0.15 + 1 = 41

Metros

(41 pzas)(1.49 m)

= 54.04 m

Desperdicio del 5%

(54.04m)(1.05)

= 60.812 m

Total en kg (60.812)(0.25)

= 15.2028 kg

Varilla #4

Dobles = (12)(1.276) = 15.24 = 12

Pzas = 13.23 / 12 = 1.1025 ≈ 2 pzas

Peso = (13.23)(0.997 kg) = 13.19031 kg

0.8 — 6 — 0.15

longitud

6 + 0.30 = 6.30 m

(2 pzas)([illegible])

= 12.6 m

Desperdicio del 5%

(12.6 m)(1.05)

= 13.23 m