

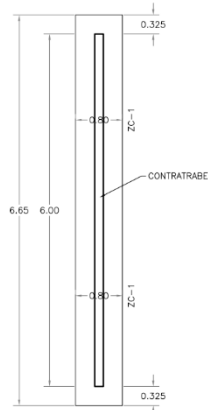


CUANTIFICACIÓN

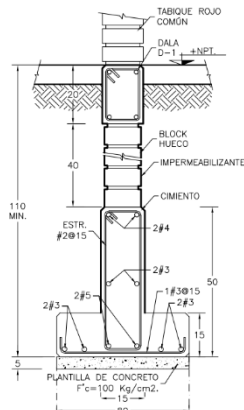
Taller de construcción

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ZAPATA INTERMEDIA
PLANTA



ZAPATA INTERMEDIA
ZC-1

Zapata Intermedia ZC-1
 Cuantificación de base y contratrabe

→ Excavación = Abundamiento
 Base = $30 \times 20 = 100$ $6.65 \times 1.00 \times 1.15 = 7.715 \text{ m}^2 \times 1.30 = 10.24075 \text{ m}^3$
 Longitud = $6.65 \times 20 = 6.65$
 Altura = $10 \times 1.00 = 115$

→ Concreto (f=100) Desperdicio
 Base = 100 $1 \times 6.65 \times 0.05 = 0.3325 \times 1.1 = 0.36575 \text{ m}^3$
 Longitud = 6.65
 Altura = 0.05

→ Concreto (f=200) Sección 1 (base) Desperdicio
 Base = 80 $80 \times 6.65 \times 0.15 = 0.798 \times 1.05 = 0.8379 \text{ m}^3$
 Longitud = 6.65
 Altura = 0.15

→ Concreto (f=200) Sección 2 (contratrabe) Desperdicio
 Base = 15 $15 \times 6 \times 0.35 = 0.315 \times 1.05 = 0.33075 \text{ m}^3$
 Longitud = 6
 Altura = 0.35

Total de Concreto f=100 =
1.16865 m³

-> Varrilla N°3 (base) $3/8" \times 0.0254 = 0.009525(2) = 0.1143 = 12/$

Frontera Sol = $12" = 80 = 112$

$$80 + 24 = 104 \text{ m} \quad P_{20} = 6.65 / 15.17 = 44.33 (104 \text{ m}) = 45 \text{ m}$$

longitudinal $12 \text{ m} \times 2 = 24 \text{ m}$

$$6.65 + 24 = 6.89 \text{ m} \quad P_{20} = 4(6.89 \text{ m}) = 27.56 \text{ m}$$

-> Varrilla N°3 (contratrabes)

$12 \text{ m} \times 2 = 24 \text{ m}$

6.24 m

$$6.24 \text{ m} \times 2 = 12.48 \text{ m}$$

Total de Varrilla N°3 =

$$\Sigma = 85.04 (1.03) = 87.5912$$

$$\text{Kg} = 87.59 \times 0.566 =$$

12

$$P_{20} = 7.29 = 7/4 \text{ Kg} = 49.57 \text{ Kg}$$

Norma

→ Vanilla N°4 (contratubo) $\frac{521}{6.00} \frac{12.15}{1}$

$$6.00 + 0.30 = 6.30 \text{ m}$$

$$P_{20} = 2(6.30) = 12.60 \text{ m} \times 1.05 = 13.23 \text{ m} / 12 = 1.10$$

$$Kg = 13.23 (0.997 \text{ kg/m})$$

$$P_{20} = 1 \quad / \quad Kg = 13.19 \text{ kg}$$

→ Vanilla N°5 (contratubo) $\frac{21}{6.00} \frac{15.20}{1}$

$$6.00 + .40 = 6.40$$

$$P_2 = 2(6.40) = 12.8 \times 1.07 = 13.696 / 12$$

$$13.696 \times (1.566) = 21.44$$

$$P_2 = 1.14 = 1 \quad / \quad Kg = 21.44$$

> Estibon N° 2

0.00117 m
0.00117 m

$$P = 130 + 0.14 = 1.44 \text{ m}$$

Desplazamiento

$$P_{20} = 6 \cdot 15 \cdot 7 = (41) (1.44 \text{ m}) = 59.04 \text{ m} (1.03) = 60.8112 \text{ m}$$

$$kg = 60.8112 \text{ m} (0.250) = \underline{15.20} /$$