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**Nombre del trabajo: Cuantificación**

**Materia: TALLER DE CONSTRUCCION  
DE MATERIALES BASICOS**

**Grado: 5° cuatrimestre**

**Grupo: Arquitectura**

## Zanja Intermedia ZC-1

Excavación

$$6.85 \times 1 \times 1.15 = 7.8775 \text{ m}^3 \times 1.30 = 10.241 \text{ m}^3 =$$

Plantas de cañabo

$$1 \times 6.65 \times 0.05 = 0.33 \times 1.1 = 0.36 \text{ m}^3 =$$

Concreto f. 200

$$\begin{aligned} .80 \times 6.65 \times 0.15 &= 0.79 \times 1.05 = 0.83 \text{ m}^3 \\ .15 \times 6 \times 0.35 &= 0.315 \times 1.05 = .33 \text{ m}^3 \\ &= 1.16 \text{ m}^3 \end{aligned}$$

Varilla #3 (12 ganchos)

$$80 + .24 + 1.04 \text{ m}$$

$$P_{cd} = 6.65 / .15 + 1 = 44.33 (1.04 \text{ m}) = 45 \text{ m}$$

$$6.65 + .24 = 6.89 \text{ m } \frac{P}{2} = 4(6.89) = 27.56$$

Contribución

$$6 + .24 = 6.24 \times 2 = 12.48 \text{ m}$$

$$85.04 \times 0.566 = 49.57 \quad - P_{cd} = 7.2 \quad - \text{kg} = 49.57$$

Varilla #4 (15 ganchos)

$$6 + 0.30 = 6.30$$

$$P_{cd} = 2(6.30) = 12.6 \times 1.05 = 13.2 / 12 = 1.1$$

$$13.2 \times 0.997 = 13.16$$

$$- P_{cd} = 1 \quad - \text{kg} = 13.16$$

Vitrillo 115 (6.0 grado)

$$6 + .90 = 6.40$$

$$k = 2(6.40) = 12.8 \times 1.07 = 13.69 / 12 = 1.14$$

$$13.69 \times 1.566 = 21.4$$

$$- P_2 = 1 \quad - k_9 = 21.4$$

Estribos 112 (grado 0.07)

$$k = 1.30 + 0.14 = 1.44m$$

$$20 \times 1.17 + 1.50 = 1.30$$

$$P_{cl} = 61.15 + 1 = 41 \times 1.44m = 59 (1.05)$$

$$60.77$$

$$k_9 = 60.77 (0.250) = 15.19 -$$