



CÁLCULO DE VOLÚMENES DE OBRA

| | |
|-----------------------------|---|
| NOMBRE DEL ALUMNO: | Gari Daniel Tinajero Altúzar |
| NOMBRE DE MATERIA: | TALLER DE CONSTRUCCION DE MATERIALES BASICOS |
| PARCIAL: | 3 |
| NOMBRE DEL PROFESOR: | PEDRO ALBERTO GARCIA LOPEZ |
| CARRERA: | Arquitectura |
| CUATRIMESTRE: | 5 |

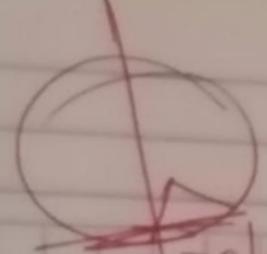
9 marzo 2024

| concepto | un | eje | Tram | Base | longit | Altu | PZA | Total | Observación | |
|-------------------------------|----------------|-----|------|------|--------|-------|-------|-------|--|--------------|
| Acero N.4 | | PZA | 1 | A-B | / | 5.86m | / | 2 | 13.72 + 5% des = 14.40m / 12 = 1.20 = (2PZA) | longitudinal |
| Acero N.5 | | PZA | 1 | A-B | / | 6.93 | / | 5 | 34.65m | |
| | | | | A-B | / | 1.38 | / | 2 | 2.76m | |
| | | | | | | | | | 37.41m + 7% = 40.02m / 12m = 3.33 = (4PZA) | |
| concreto F ^c 200kg | m ³ | | 1 | A-B | 0.2 | 6.55m | 0.55m | 1 | 0.72 + 5% desp = 0.75m ³ | Trabe TR-1 |

Tabla a limpio

9-marzo-2024

| Concepto | un | eje | Tram | Base | long | Altu | PZA | Total | observación | | |
|--------------------------------|----------------|-----|------|-------|-------|------|-----|-----------------------------|--------------------------|--------------------------|------|
| concreto F _c 200 | M ³ | A | 1-2 | 0.9m | 8.0m | 0.15 | 1 | 1.08 m ³ | Base | | |
| | | / | A-B | 0.9m | 4.1m | 0.15 | 1 | 0.553 m ³ | Base | | |
| | | A | 1-2 | 0.9m | 7.27m | 0.35 | 1 | 0.35 m ³ | CT-1 | | |
| | | / | A-B | 0.14m | 4.275 | 0.35 | 1 | 0.21 m ³ | CT-1 | | |
| | | A | 1-2 | 0.14m | 7.27m | 0.2 | 1 | 0.203 m ³ | D-1 | | |
| | | / | A-B | 0.14m | 4.275 | 0.20 | 1 | 0.119 m ³ | D-1 | | |
| | | | | | | | | | | Σ = 2.515 m ³ | |
| | | | | | | | | | | 0.203 m ³ | CR-1 |
| | | | | | | | | | | 0.119 m ³ | |
| | | | | | | | | | | 0.425 m ³ | K-1 |
| | | | | | | | | + 2.575 m ³ | | | |
| | | | | | | | | = 3.262 m ³ + 5% | | | |
| | | | | | | | | = 3.425 × 1962.34 | | | |
| | | | | | | | | = \$ 6,721.01 | | | |
| | | | | | | | | <u>3</u> | | | |
| Acero | IV3 | PZA | 1 | A-B | / | 1.54 | / | 37 | 56.98 + 3% desp Estribos | | |
| | | | | | | | | | = 58.68 / 12 | | |
| | | | | | | | | | = 4.89 = (5 pZA) | | |



20 feb 24

150 kg/m²

| Cemento | agua | Arena |
|---------------|------------------|---|
| $\frac{6}{3}$ | 12 x 18 = 216 | 33 botes de 18L x 0.018 m ³ = 0.594 m ³ |

Grava
39 de 18
x 0.018 m³
= 0.702

200 kg/m²

| Cemento | Agua | Arena | Grava |
|---------------|-----------------------------------|---|---|
| $\frac{7}{3}$ | 7 x 1.75 12.25 x 18 = 220.5 | 31 de 18 LIT x 0.018 m ³ = 0.558 | 38.5 x 0.018 = 0.693 m ³ |

250 kg/m²

| Cement | Agua | Arena | Grava |
|---------------|----------------------------|--|------------------------------|
| $\frac{8}{3}$ | 12 botes x 18 = 216 LTS | 28 botes x 18 x 0.018 = 0.504 m ³ | 40 botes x 0.018 = 0.7 |