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**ANALISIS DE ESTRUCTURAS**

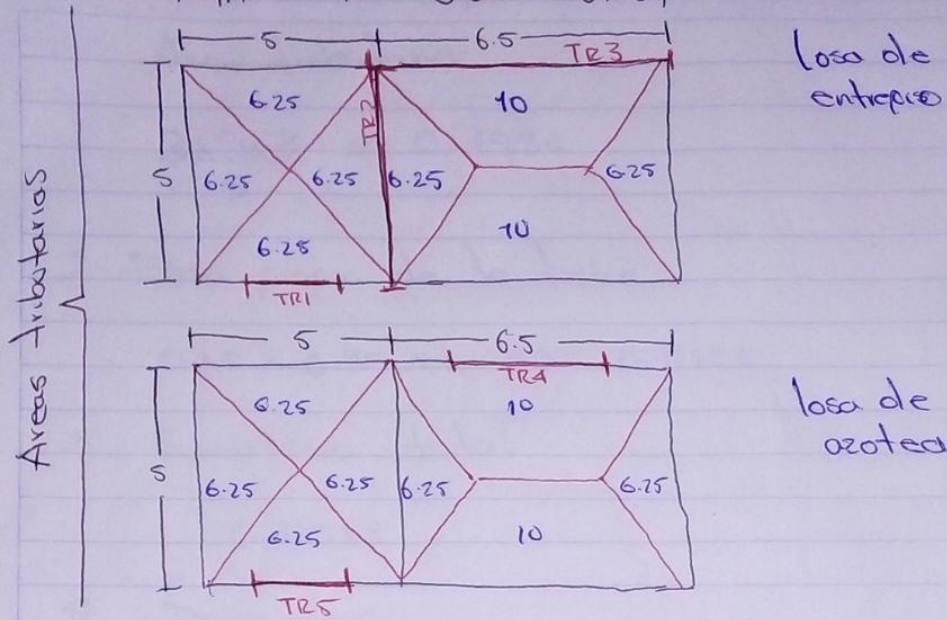
**TRABES**

**5° CUATRIMESTRE**

**LAR-ARQUITECTURA "A"**

**COMITAN DE DOMINGUEZ, CHIAPAS A 03 FEBRERO 2022**

# Analisis de Construccion



## 2 Peralte

$$\begin{aligned} 20/170 + 0.0254 &= 0.1430 \\ 23/170 + 0.0254 &= 0.1606 \end{aligned} \left. \vphantom{\begin{aligned} 20/170 + 0.0254 \\ 23/170 + 0.0254 \end{aligned}} \right\} 25 \text{ Caseton}$$

## 3 Peso de area tributario

E.P

$$6.25 \times 0.635 = 3.968$$

$$10 \times 0.635 = 6.35$$

AZ

$$6.25 \times 0.665 = 4.1562$$

$$10 \times 0.665 = 6.65$$

TR1

## 1 Area Tributaria

$$\frac{3.968}{5} = 0.7936$$

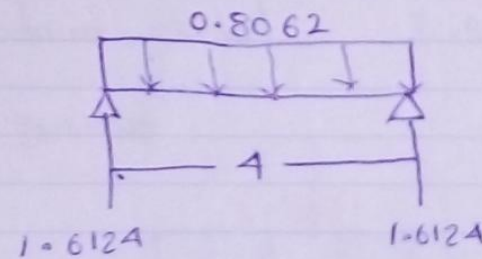
## 2 Peso propio de la trabe

$$0.15 \times 0.35 \times 0.240 = 0.0126$$

## 3 Sumatoria total

$$0.8062$$

## 4 Diagrama



$$w = 0.8062$$

$$R_A = R_B = w(L)/2$$

$$\frac{0.8062(4)}{2}$$

$$= 1.6124$$

## TR 2

1 Area tributaria E.P  
 $\frac{3.9687}{5} = 0.7937 (2) = 1.5874$

2 Peso propio de la trabe  
 $0.15 \times 0.40 \times 0.240 = 0.0144$

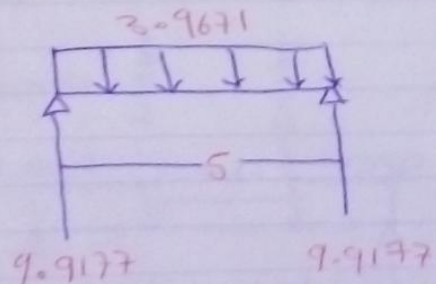
3 Peso de muro  
 $2.55 \times 0.270 = 0.6885$

4 Peso propio de la cadena de cerramiento  
 $0.15 \times 0.40 \times 0.240 = 0.0144$

5 Area tributaria de losa de azotea  
 $\frac{4.1562}{5} = 0.8312 (2) = 1.6624$

6 Sumatoria total 3.9671

7 Diagrama



## TR 3

1 Area tributaria E.P  
 $\frac{6.35}{6.50} = 0.9769$

2 Peso propio de la trabe  
 $0.15 \times 0.55 \times 0.240 = 0.0198$

3 Peso de muro  
 $2.70 \times 0.270 = 0.729$

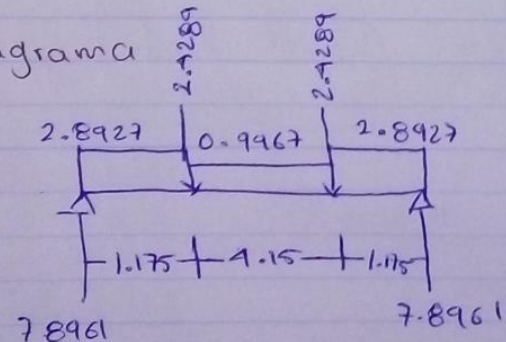
4 Peso propio de la cadena de cerramiento  
 $0.15 \times 0.25 \times 0.240 = 0.009$

5 Area tributaria de losa de azotea  
 $\frac{6.65}{6.50} = 1.0230$

6 Pictil  
 $0.50 \times 0.270 = 0.135$

7 Sumatoria total 2.8927

8 Diagrama



## TR 4

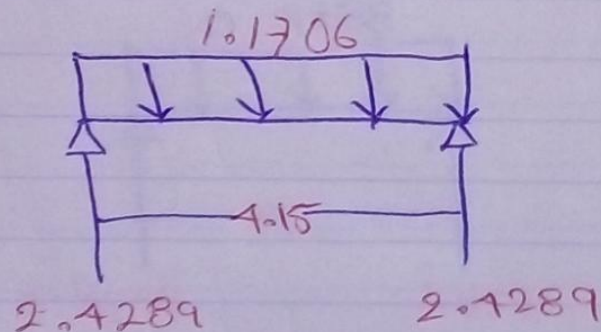
1 Peso propio de la trabe  
 $0.15 \times 0.35 \times 0.240 = 0.0126$

2 Peso de muro (Pretil)  
 $0.50 \times 0.270 = 0.135$

3 Area tributaria de azotea  
 $\frac{6.65}{6.50} = 1.0230$

4 Sumatoria total 1.1706

5 Diagrama



## TR 5

1 Peso propio de la trabe  
 $0.15 \times 0.35 \times 0.270 = 0.0126$

2 Peso de muro  
 $0.50 \times 0.270 = 0.135$

3 Area tributaria de losa de azotea  
 $\frac{4.1562}{5} = 0.8312$

4 Sumatoria total 0.9788

5 Diagrama

