



Mi Universidad

EJERCICIOS

Nombre del Alumno: Pablo Daniel Castro Herrera

Nombre del tema: Introduccion

Parcial: I

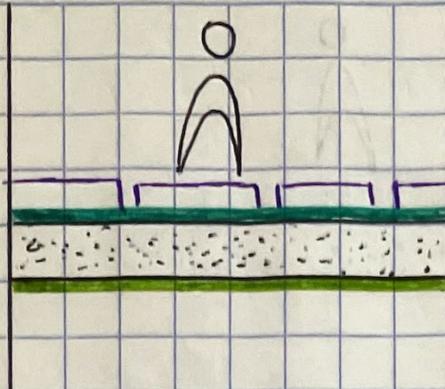
Nombre de la Materia: Análisis de estructura

Nombre del profesor: Arq. Pedro Garcia

Nombre de la Licenciatura: Arquitectura

Cuatrimestre: 5

Fecha: 19 de enero 2024



Acobado \longrightarrow 70 kg/m^2

Entortado \longrightarrow 30 kg/m^2

Losa Maciza \longrightarrow 240 kg/m^2

yeso \longrightarrow 30 kg/m^2

CM Reglomento \longrightarrow 40 kg/m^2

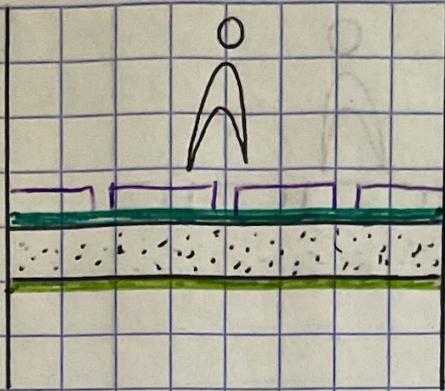
Cm	410	kg/m^2	\longrightarrow	+ 90 kg/m^2 :
Cv	170	kg/m^2	\longrightarrow	500 kg/m^2

Total 580 kg/m^2

Losa Maciza de 10 cm

$$2,400 \text{ kg} \cdot \text{m}^3 (0.10 \text{ m})$$

$$= 240 \text{ kg/m}^2$$



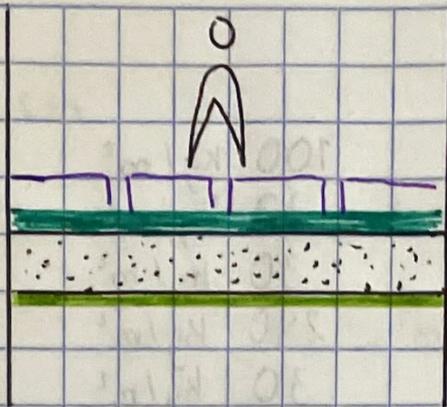
Acabado	→	70 kg/m ²	
Entortado	→	30 kg/m ²	
Losa Maciza	→	288 kg/m ²	
Yeso	→	30 kg/m ²	
CM de Reglamento	→	40 kg/m ²	

cm	458 kg/m ²	→ + 90 kg/m ²
Cv	170 kg/m ²	548 kg/m ²
Total	628 kg/m ²	

Losa Maciza de 12 cm

$$2,400 \text{ Kg} \cdot \text{m}^3 (0.12 \text{ m})$$

$$= 288 \text{ Kg/m}^2$$



Acabado \longrightarrow 70 kg/m^2

Entortado \longrightarrow 30 kg/m^2

Losa Maciza \longrightarrow 312 kg/m^2

Yeso \longrightarrow 30 kg/m^2

CM de Reglamento \longrightarrow 40 kg/m^2

CM	482 kg/m^2	\longrightarrow	+90 kg/m^2
Cv	170 kg/m^2		572 kg/m^2
Total	652 kg/m^2		

Losa Maciza de 13 cm

$2,400 \text{ kg/m}^3 (0.13 \text{ m})$

$= 312 \text{ kg/m}^2$

Baño de 10 cm

Relleno	→	100	kg/m ²
Acabado	→	70	kg/m ²
Entortado	→	30	kg/m ²
Losa Maciza	→	240	kg/m ²
Yeso	→	30	kg/m ²
CM Reglamento	→	40	kg/m ²

CM	510	kg/m ²	→ +90 kg/m ² =
Cv	170	kg/m ²	600 kg/m ²
Total	680	kg/m ²	

Baño de 12 cm

Relleno	→	100	kg/m ²
Acabado	→	70	kg/m ²
Entortado	→	30	kg/m ²
Losa Maciza	→	288	kg/m ²
Yeso	→	30	kg/m ²
CM Reglamento	→	40	kg/m ²

CM	558	kg/m ²	→ +90 kg/m ² =
Cv	170	kg/m ²	648 kg/m ²
Total	728	kg/m ²	

Baño de 13 cm

Relleno → 100 kg/m²

Acabado → 70 kg/m²

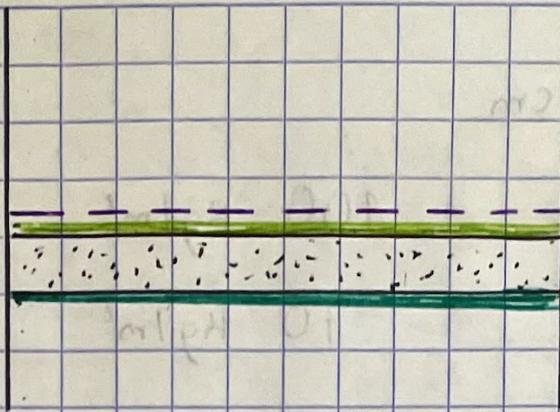
Entortado → 30 kg/m²

Losa Maciza → 312 kg/m²

Yeso → 30 kg/m²

CM Reglamento → 40 kg/m²

CM	582 kg/m ²	→ + 90 kg/m ²
Cv	170 kg/m ²	672 kg/m ²
Total	752 kg/m ²	



Relleno → 100 kg/m²

Acabado → 30 kg/m²

Entortado → 70 kg/m²

Losa Maciza → 240 kg/m²

Yeso → 30 kg/m²

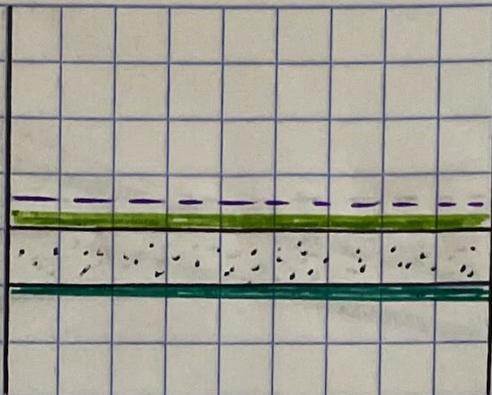
CM Reglamento → 40 kg/m²

CM 510 kg/m² → + 70 kg/m² :

Cv 100 kg/m² 580 kg/m²

Total 610 kg/m²

Azotea de 10 cm Pend. 2%.



Repleno \longrightarrow 100 kg/m^2

Acabado \longrightarrow 70 kg/m^2

Entortado \longrightarrow 30 kg/m^2

Losa Maciza \longrightarrow 288 kg/m^2

Yeso \longrightarrow 30 kg/m^2

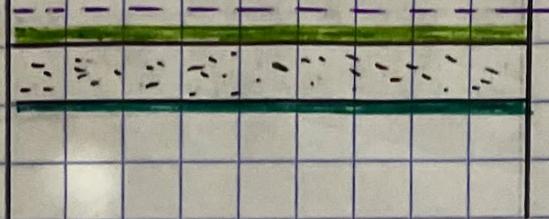
CM Reglamento \longrightarrow 40 kg/m^2

CM 558 $\text{kg/m}^2 \rightarrow + 70 \text{ kg/m}^2 :$

Cv 100 kg/m^2 628 kg/m^2

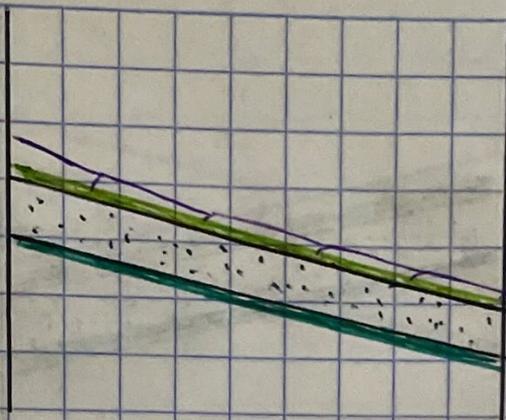
Total 658 kg/m^2

Azotea de 12 cm Pend. 2%



Relleno	→	100	kg/m ²	
Acabado	→	70	kg/m ²	
Entortado	→	30	kg/m ²	
Losa Maciza	→	312	kg/m ²	
Yeso	→	30	kg/m ²	
CM Reglamento	→	40	kg/m ²	
		CM	582 kg/m ²	→ 70 kg/m ²
		Cv	100 kg/m ²	652 kg/m ²
		Total	682 kg/m ²	

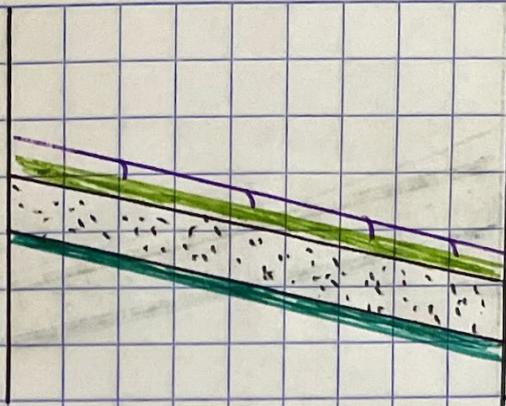
Azotea de 13 cm Pend. 2%.



Teja 50 kg/m^2

Losas Macizas	→	240 kg/m^2	
Teja	→	50 kg/m^2	
Encofrado	→	30 kg/m^2	
Yeso	→	30 kg/m^2	
CM Reglamento	→	40 kg/m^2	
		$Cv \ 390 \text{ kg/m}^2$	→ 20 kg/m^2
		$Cv \ 60 \text{ kg/m}^2$	410 kg/m^2
		<u>Total 450 kg/m^2</u>	

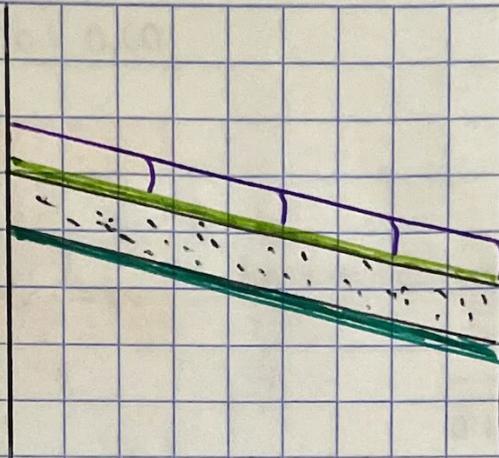
Losas Macizas de 10 cm Pend. 20%



Losa Maciza	→	288	kg/m ²
Teja	→	50	kg/m ²
Encofrado	→	30	kg/m ²
Yeso	→	30	kg/m ²
CM Reglamento	→	40	kg/m ²

CM	438 kg/m ²	→	20 kg/m ²
CV	60 kg/m ²		458 kg/m ²
	<u>498 kg/m²</u>		

Losa Maciza de 12 cm Pend. 20%.



Losa Maciza \longrightarrow 312 kg/m^2

Teja \longrightarrow 50 kg/m^2

Encofrado \longrightarrow 30 kg/m^2

Yeso \longrightarrow 30 kg/m^2

CM Reglamento \longrightarrow 40 kg/m^2

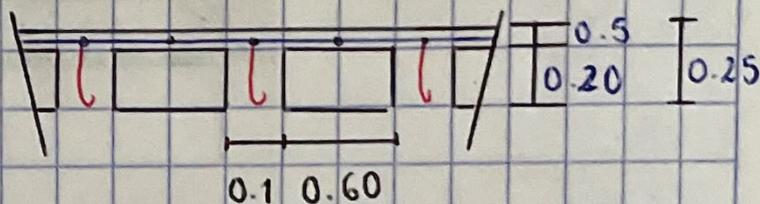
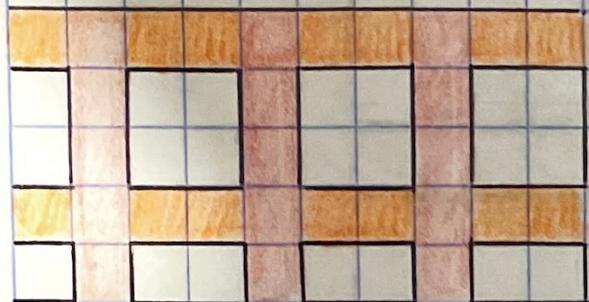
CM 462 $\text{kg/m}^2 \rightarrow$ 20 kg/m^2

Cv 60 kg/m^2 482 kg/m^2

Total 522 kg/m^2

Laza Maciza 13 cm Pend. 20%.

0.1 0.60 0.1 0.60 0.1 0.60



Nervios Verticales

$$0.10\text{m} \times 0.20\text{m} \times 2400\text{ kg/m}^3 (2\text{ piezas}) = 96\text{ kg/m}^2$$

Nervios Horizontales

$$0.10\text{m} \times 0.20\text{m} \times 0.80\text{m} \times 2,400\text{ kg/m}^3 (2\text{ piezas}) = 76.8\text{ kg/m}^2$$

Capa de Compresión

$$1.0\text{m} \times 1.0\text{m} \times 0.05\text{m} \times 2,400\text{ kg/m}^3 = 120\text{ kg/m}^2$$

$$\Sigma = 292.8\text{ kg/m}^2 \quad 15\text{ kg/m}^3$$

$$0.60\text{m} \times 0.60\text{m} \times 0.20\text{m} (2.5\text{ piezas}) (15\text{ kg/m}^3)$$

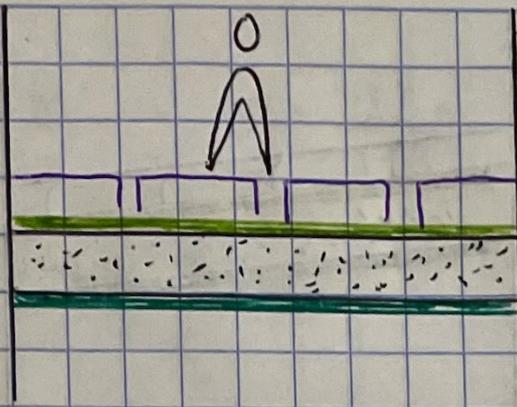
$$\begin{array}{r} + 2.70\text{ kg/m}^2 \\ 292.8\text{ kg/m}^2 \\ \hline 295.5\text{ kg/m}^2 \end{array}$$

$$\text{P.P. Losa de Casetón} = 295.5\text{ kg/m}^2$$



Relleno	→	100	kg/m^2
P.D. de Losa de Casetón	→	295.5	kg/m^2
Acabado	→	70	kg/m^2
Entortado	→	30	kg/m^2
Yeso	→	30	kg/m^2
CM Reglamento	→	40	kg/m^2

CM	565 kg/m^2	→ +70 kg/m^2
CM	100 kg/m^2	635 kg/m^2
Total	665 kg/m^2	



Acabado \longrightarrow 70 Kg/m^2

Entortado \longrightarrow 30 Kg/m^2

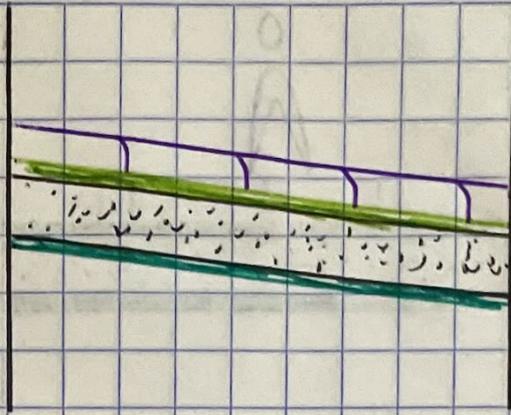
P.P. de losa de Casetón \longrightarrow 295.5 Kg/m^2

Yeso \longrightarrow 30 Kg/m^2

CM Reglamiento \longrightarrow 40 Kg/m^2

CM	465 Kg/m^2	$\rightarrow +90 \text{ Kg/m}^2$
Cv	170 Kg/m^2	555 Kg/m^2
<u>Total</u>	<u>635 Kg/m^2</u>	

Losu entrepiso



Entortado \longrightarrow 30 Kg/m^2

Teja \longrightarrow 50 Kg/m^2

P.P. Losa de Casetón \longrightarrow 295 Kg/m^2

Yeso \longrightarrow 30 Kg/m^2

CM Reglamento \longrightarrow 40 Kg/m^2

CM 445 $\text{Kg/m}^2 \rightarrow +20 \text{ Kg/m}^2$

Cv 60 Kg/m^2 465 Kg/m^2

Total 505 Kg/m^2