

Mi Universidad

PLATAFORMA

FERNANDA STEPHANIA RAMIREZ GUILLÉN

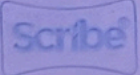
ARQUITECTURA

ANÁLISIS DE ESTRUCTURAS

PEDRO ALBERTO GARCÍA LÓPEZ

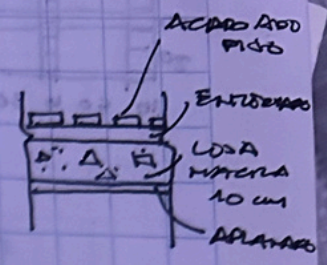
Cuatrimestre 5°

LOSA 10 CM =
 PESO CONCRETO $2400 \text{ Kg/m}^3 \times 0.10 = 240 \text{ Kg/m}^2$
 $2400 \text{ Kg/m}^3 \times 0.17 = 288 \text{ Kg/m}^2$



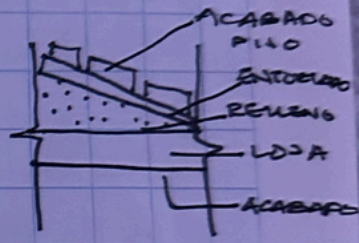
• ENTRE PISO 10 CM:

1- ACABADO DE PISO	=	70 Kg/m ²	→	70 Kg/m ²
2- ENTORTADO	=	30 Kg/m ²	→	30 Kg/m ²
3- LOSA 10 CM	=	240 Kg/m ²	→	288 Kg/m ²
4- APLANADO	=	30 Kg/m ²	→	30 Kg/m ²
5- REGLAMENTO	=	40 Kg/m ²	→	40 Kg/m ²
		<u>410 Kg/m²</u>		<u>458 Kg/m²</u>
CV CASA HABITACION	=	<u>190 Kg/m²</u>		<u>190 Kg/m²</u>
		600 Kg/m ²		648 Kg/m ²



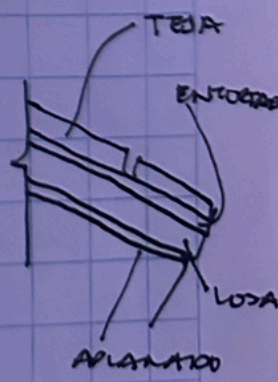
• AZOTEACH.

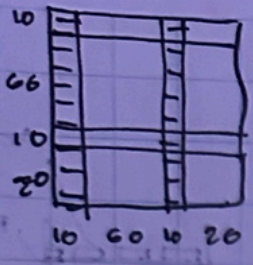
1. ACABADO DE PISO	=	70 Kg/m ²	→	70 Kg/m ²
2. ENTORTADO	=	30 Kg/m ²	→	30 Kg/m ²
3. RELENO	=	100 Kg/m ²	→	100 Kg/m ²
4. LOSA 10 CM	=	240 Kg/m ²	→	288 Kg/m ²
5. APLANADO	=	30 Kg/m ²	→	30 Kg/m ²
6. REGLAMENTO	=	40 Kg/m ²	→	40 Kg/m ²
		<u>510 Kg/m²</u>		<u>558 Kg/m²</u>
CV AZOTECHA (PENDIENTE MENOR QUE 5%)	=	<u>100 Kg/m²</u>		<u>100 Kg/m²</u>
		610 Kg/m ²		658 Kg/m ²



• AZOTECHA INCLINADA:

1. TEJA	=	50 Kg/m ²	→	50 Kg/m ²
2. ENTORTADO	=	30 Kg/m ²	→	30 Kg/m ²
3. LOSA 10 CM	=	240 Kg/m ²	→	288 Kg/m ²
4. APLANADO	=	30 Kg/m ²	→	30 Kg/m ²
5. REGLAMENTO	=	40 Kg/m ²	→	40 Kg/m ²
		<u>390 Kg/m²</u>		<u>438 Kg/m²</u>
CV AZOTECHA (pendiente mayor de 5%)	=	<u>40 Kg/m²</u>		<u>40 Kg/m²</u>
		430 Kg/m ²		478 Kg/m ²





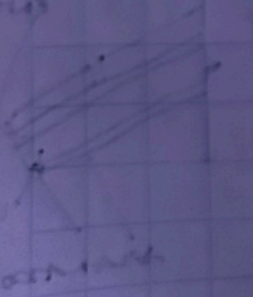
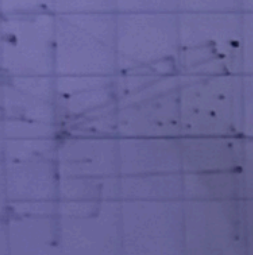
1. $(0.10\text{ m} \times 0.20\text{ m} \times 1.0\text{ m}) \times (2723) = 0.04\text{ m}^3 \times 2400\text{ kg/m}^3 = 96\text{ Kg/m}^2$
2. $(0.10 \times 0.20 \times 0.80) \times (2723) = 0.032\text{ m}^3 \times 2400\text{ kg/m}^3 = 76.8\text{ Kg/m}^2$
3. $(1.0 \times 1.0 \times 0.05) \times 0.05\text{ m}^2 \times 2,400\text{ kg/m}^3 = 120\text{ Kg/m}^2$
4. $(0.60 \times 0.60 \times 0.20) \times (2.5\text{ / m}) = 0.18\text{ m}^2 (15\text{ Kg/m}^3) = 2.70\text{ Kg/m}^2$

TOTAL = 295.5 Kg/m²

↓ PISO PISO
295 Kg/m²

* LOSA CH: ENTREPISO = 25 CM = 655 Kg/m²

AZOTEA = 25 CM = 665 Kg/m²



7. LOSA AZOBA:

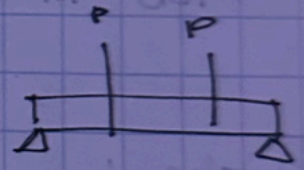
$$A \cdot B = 0.25 \text{ m}^2 (665 \text{ Kg/m}^2) = 166.25 \text{ Kg/m}$$

8. $w = (1.1 \text{ m} + 2.2 \text{ m}) \cdot 166.25 \text{ Kg/m} = 4156.25 \text{ Kg/m}$
 $4156.25 \text{ Kg/m} = 831.25 \text{ Kg/m}$
 $S \cdot 0 \text{ m} = \dots$

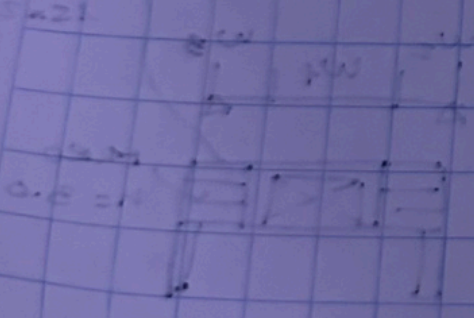
9. PESO FEETIL :
 $0.20 \text{ m} (270 \text{ Kg/m}) = 54 \text{ Kg/m}$

10. TOTAL $w_2 =$
PES0 MURO + PES0 CERRAMENSO + CARGA + PES0 FEETIL = 3498 Kg/m

11. $w = \text{daenaminto} \rightarrow w \rightarrow \text{PIRE}$
 $w = P \cdot P = 90 + 831.25 + 54 = 975.25 \text{ Kg/m}$



$$w = 975.25 \text{ Kg/m} (2.15 \text{ m})$$
$$= 2096.7875 / 2$$
$$= 1048.393 \text{ Kg}$$
$$R_A = R_B = \frac{w(L)}{2}$$



[Faint handwritten notes and diagrams at the bottom of the page, including some vertical lines and illegible text.]

• LOSA 10 CM:

- APLANADO DE RISO 70 Kg/m²
- ENTORTADO 30 Kg/m²
- LOSA 10 CM 240 Kg/m²
- APLANADO 30 Kg/m²
- REGLAMENTO 40 Kg/m²

$$\begin{aligned} & \underline{410 \text{ Kg/m}^2} \\ \text{CVA} &= 250 \text{ Kg/m}^2 \\ \text{T} &= 660 \text{ Kg/m}^2 \end{aligned}$$

- LOSA 10 CM 70 Kg/m²
- APLANADO DE RISO 30 Kg/m²
- ENTORTADO 288 Kg/m²
- LOSA MACIZA 30 Kg/m²
- APLANADO 40 Kg/m²
- REGLAMENTO 458 Kg/m²

$$\begin{aligned} & \underline{458 \text{ Kg/m}^2} \\ \text{CVA} &= 250 \text{ Kg/m}^2 \\ \text{T} &= 708 \text{ Kg/m}^2 \end{aligned}$$

• HABITACIONAL:

- LOSA 10 CM
- APLANADO 70 Kg/m²
- ENTORTADO 30 Kg/m²
- LOSA MACIZA 240 Kg/m²
- APLANADO 30 Kg/m²
- REGLAMENTO 40 Kg/m²

$$\begin{aligned} & \underline{410 \text{ Kg/m}^2} \\ \text{CVA} &= 100 \text{ Kg/m}^2 \\ \text{T} &= 510 \text{ Kg/m}^2 \end{aligned}$$