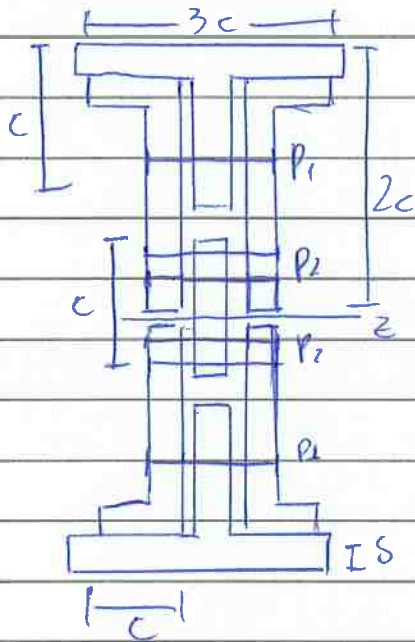


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No trecho mais solicitado,  $A_1$  e  $A_2$   
de modo que:  $e_1 = e_2 = 10 \text{ cm}$

$$\cdot \bar{\tau} = 750 \text{ kgf/cm}^2$$

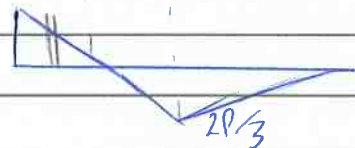
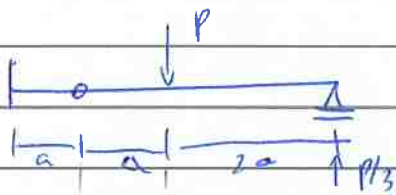
$$\cdot P = 15000 \text{ kgf}$$

$$\cdot a = 200 \text{ cm}$$

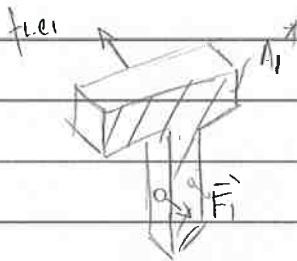
$$\cdot c = 10 \text{ cm}$$

$$\cdot \delta = 0,5 \text{ cm}$$

$$\cdot I_z = 56 \delta c^3$$



PREGO 1



$$f_{e1} = 2\bar{F}_1 = 2\tau_p A_{p1}$$

$$F_1 = V S_{z1}^* = \frac{2P}{3} \left( 3c \cdot \delta c + c \frac{\delta c}{3} \right)$$

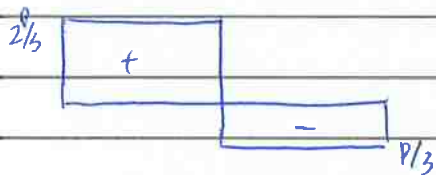
$$I_z = 56 \delta c^3$$

$$\therefore 1 = \frac{SP}{56c}$$

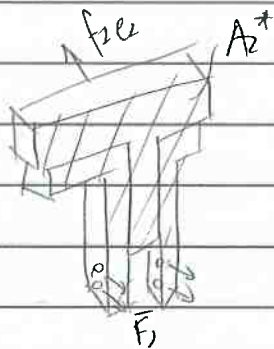
$$SP \cdot e_1 = 2\tau_p A_{p1}$$

$$56c$$

$$A_{p1} = \frac{SP \cdot e_1 \cdot 1}{56c \cdot 2\tau_p} \therefore A_{p1} = 0,89 \text{ cm}^2$$



PREGO 2



$$f_{e2} = 4\bar{F}_2 = 4\tau_p A_{p2}$$

$$F_2 = V S_{z2}^* = \frac{2P}{3} (S_{z1}^* + 2c \delta)$$

$$I_z = I_z$$

$$= \frac{2P}{3} \left( 3c \delta c + \frac{c^2 \delta}{3} + 2c \delta c + 2c \delta c \right) = 276 \text{ kgf}$$

$$56 \delta c^3 \quad \text{cm}^2$$

$$276 \cdot 10 = 4 \times 750 \times A_{p2} \therefore A_{p2} = 0,92 \text{ cm}^2$$