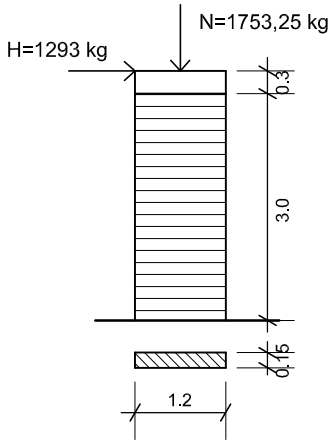


RESULTADOS GUÍA N°9

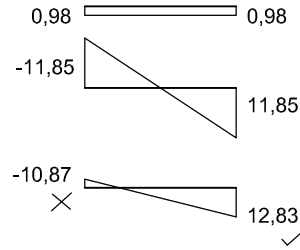
EJE B



$$\tau = \frac{N}{A} \pm \frac{M}{W}$$

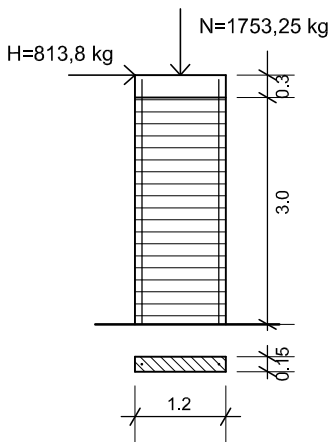
$$\tau = \frac{1753,25}{15 \cdot 120} \pm \frac{426690}{36000}$$

$$\tau = 0,98 \pm 11,85$$



Colapsa por aparición de tracciones.
Compresión no supera 15 kg/cm².

MURO EN ALBAÑILERÍA SIMPLE
Santiago, Zona 2, coef. sísm. 0,27



$$A_s = \frac{M - N(h/2 - x/3)}{f_s \cdot z}$$

$$A_s = \frac{268554 - 1753,25(60 - 16)}{1400 \cdot 102}$$

$$A_s = 1,34 \text{ cm}^2$$

$$f_m = \frac{2(M + N(h/2 - e))}{b \cdot x \cdot z}$$

$$f_m = \frac{2(268554 + 1753,25(60 - 7))}{15 \cdot 48 \cdot 102}$$

$$f_m = 9,85 \text{ kg/cm}^2$$

$$V = \frac{H}{b \cdot d}$$

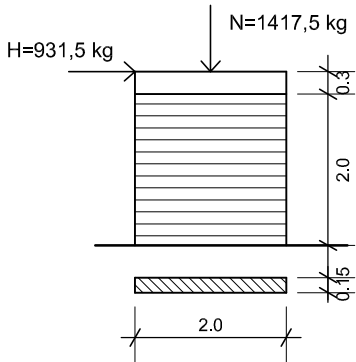
$$V = \frac{813,8}{1695}$$

$$V = 0,48 < 1,5 \text{ kg/cm}^2$$

Armadura de tracción 1Ø16 en cada extremo.
Compresión no supera 15 kg/cm²
Corte no supera 1,5 kg/cm².

MURO EN ALBAÑILERÍA ARMADA
Santiago, Zona 2, coef. sísm. 0,17

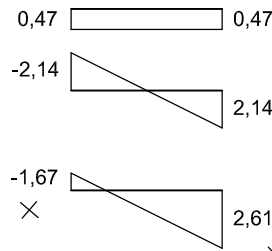
EJE 3



$$\tau = \frac{N}{A} \pm \frac{M}{W}$$

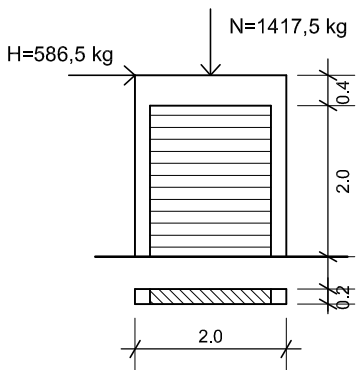
$$\tau = \frac{1417,5}{15 \cdot 200} \pm \frac{214245}{\frac{15 \cdot 200^2}{6}}$$

$$\tau = 0,47 \pm 2,14$$



Colapsa por aparición de tracciones.
Compresión no supera 15 kg/cm².

MURO EN ALBAÑILERÍA SIMPLE
Santiago, Zona 2, coef. sísm. 0,27



$$\tau = \frac{N}{A} \pm \frac{M}{W}$$

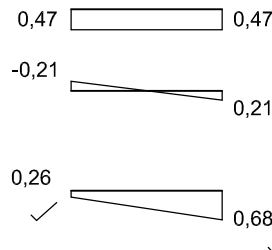
$$\tau = \frac{1417,5}{15 \cdot 200} \pm \frac{134895}{640225}$$

$$\tau = 0,47 \pm 0,21$$

$$V = \frac{H}{0,85 A}$$

$$V = \frac{586,5}{0,85 \cdot (15 \cdot 200)}$$

$$V = 0,23 < 1,5 \text{ kg/cm}^2$$

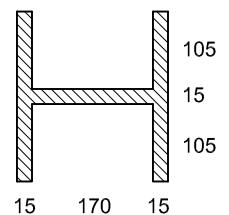


No aparecen tracciones.
Compresión no supera 15 kg/cm²
Corte no supera 1,5 kg/cm².

HOMOLOGACIÓN

$$n = 220.000 / 15.000 = 15$$

$$n \cdot b = 225$$



MURO EN ALBAÑILERÍA CONFINADA
Santiago, Zona 2, coef. sísm. 0,17