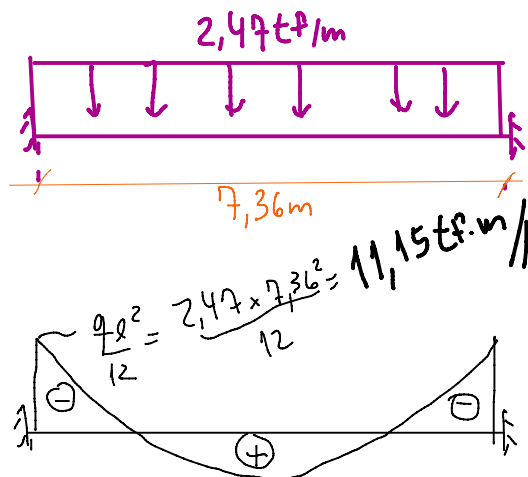
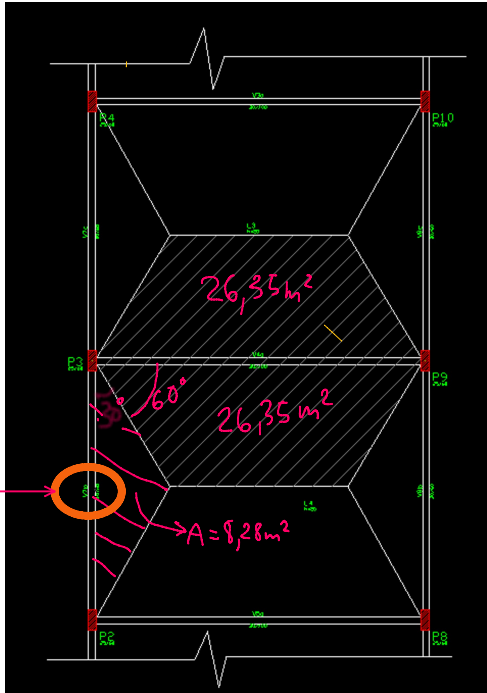


VIGA V7



VIGA - 20x60 cm²

PESO PRÓPRIO DA VIGA

$$q_{pp} = 2,5 \frac{tf}{m^3} \times 0,2 \times 0,6 \, m^2 = 0,3 \frac{tf}{m}$$

$$q_{parede} = 0,18 \frac{tf}{m^2} \times 4,4 \, m = 0,79 \frac{tf}{m}$$

LASE

Peso próprio

$$q_{pp, LASE} = 2,5 \frac{tf}{m^3} \times 0,20 \, m = 0,5 \frac{tf}{m^2}$$

$$q_{pp, LASE} = 0,5 \frac{tf}{m^2} \times 8,28 \, m^2 = 0,56 \frac{tf}{m}$$

DEMAIS PERMANENTES

$$q_{perm} = 0,13 \frac{tf}{m^2} \times 8,28 \, m^2 = 0,15 \frac{tf}{m}$$

SOBRECARGA ACIDENTAL

$$q_{acid} = 0,6 \frac{tf}{m^2} \times 8,28 \, m^2 = 0,67 \frac{tf}{m}$$

$$q_{TOTAL} = 2,47 \frac{tf}{m}$$

$$q_{pp} = 0,3 + 0,56 = 0,86 \frac{tf}{m} \rightarrow \sim 35\%$$

$$q_{perm} = 0,15 + 0,79 = 0,94 \frac{tf}{m} \rightarrow \sim 38\%$$

$$q_{acid} = 0,67 \frac{tf}{m} \rightarrow \sim 24\%$$