

$$\Sigma M = (116.8 + 153.7) \times 1.1 = 297.6$$



$$\Sigma M \times 0.5$$

$$150 \text{ kNm}$$

$$\Sigma M \times 0.5$$

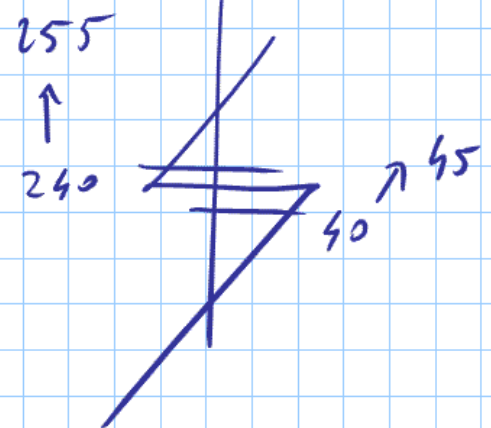
$$150 \text{ kNm}$$

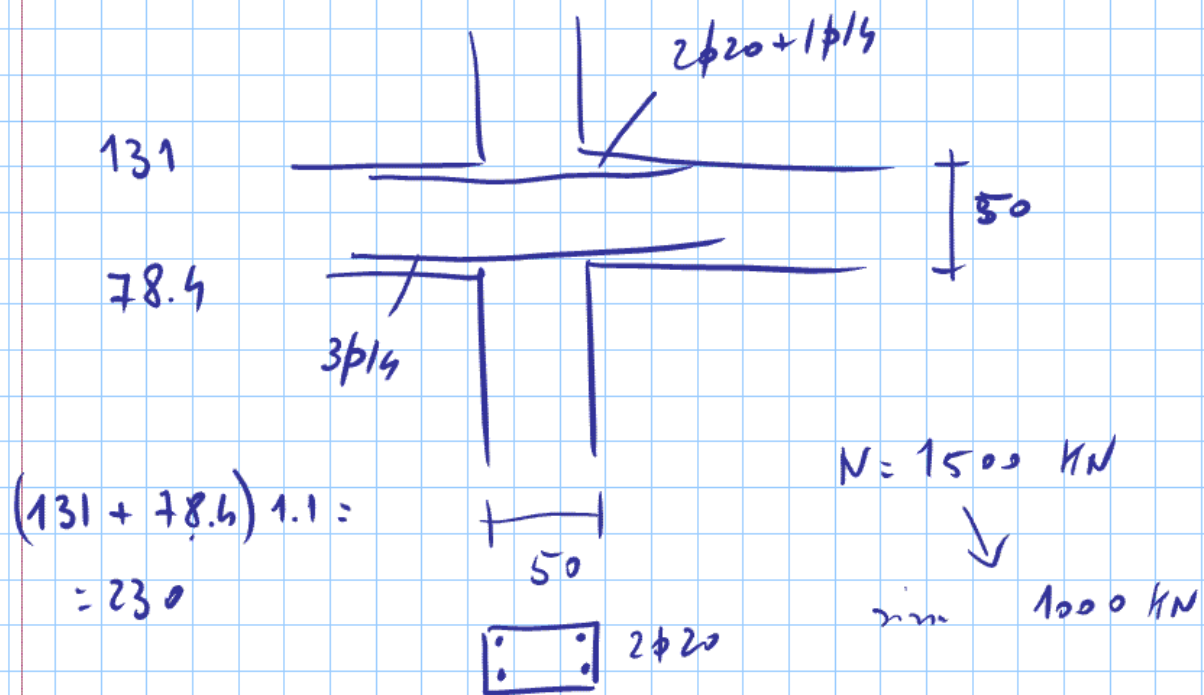
TR. SP.



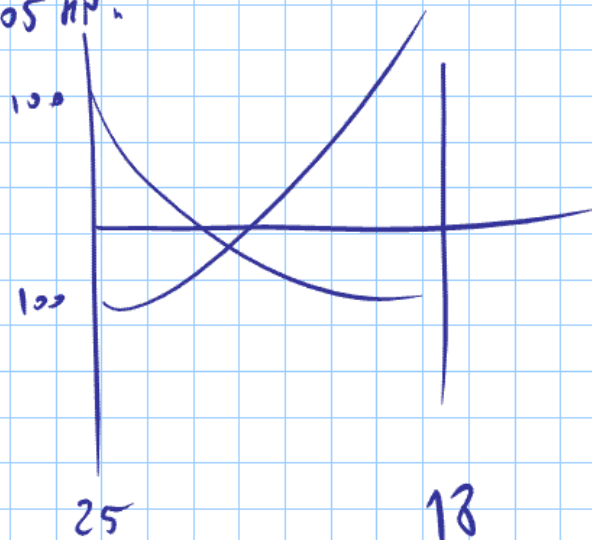
$$300 \text{ kNm}$$

0





$$M_{ed} = 105 \text{ kNm}$$



$$105 \times 1.1 \geq 120 \text{ kNm}$$

$$A_s = \frac{M}{\sigma_s \cdot f_{yk}} = \frac{100 \times 10}{0.9 \times 0.24 \times 391.3}$$

$$11.8 \text{ cm}^2$$

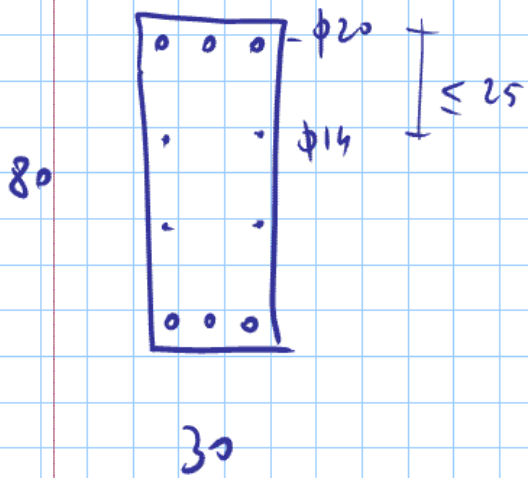
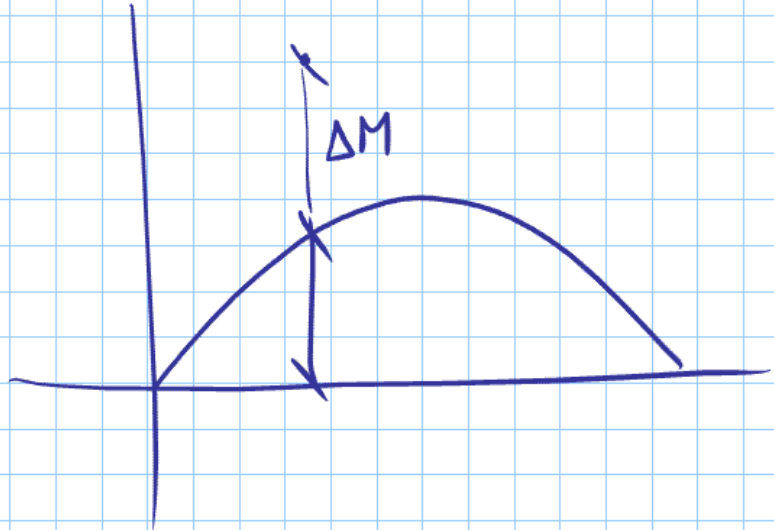
$$4\phi 20$$

$$60 \text{ kNm}$$

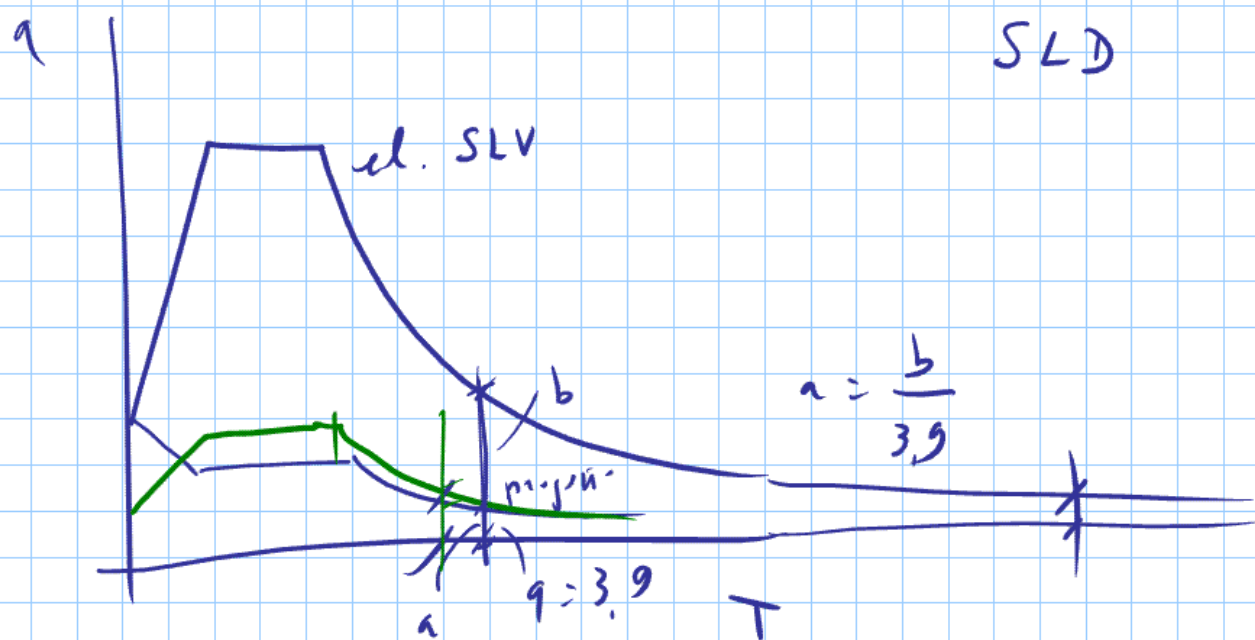
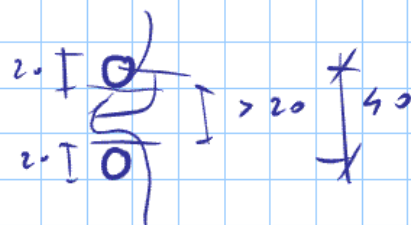
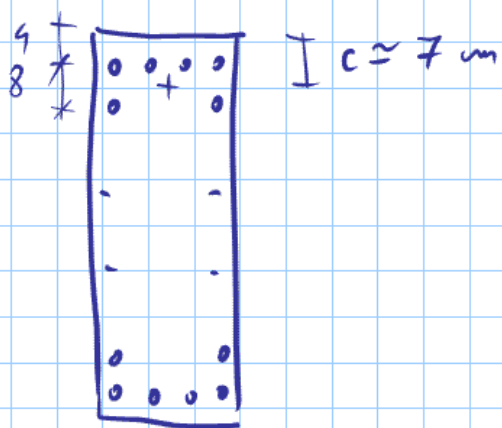


$$M_x = 255 \text{ kNm}$$

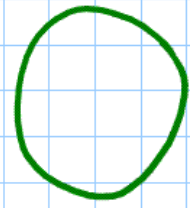
$$M_y = 20 \text{ kNm}$$



$$30 \times 80 \times 0.01 = 24 \text{ cm}^2$$



# ISOLATORI



plan.

