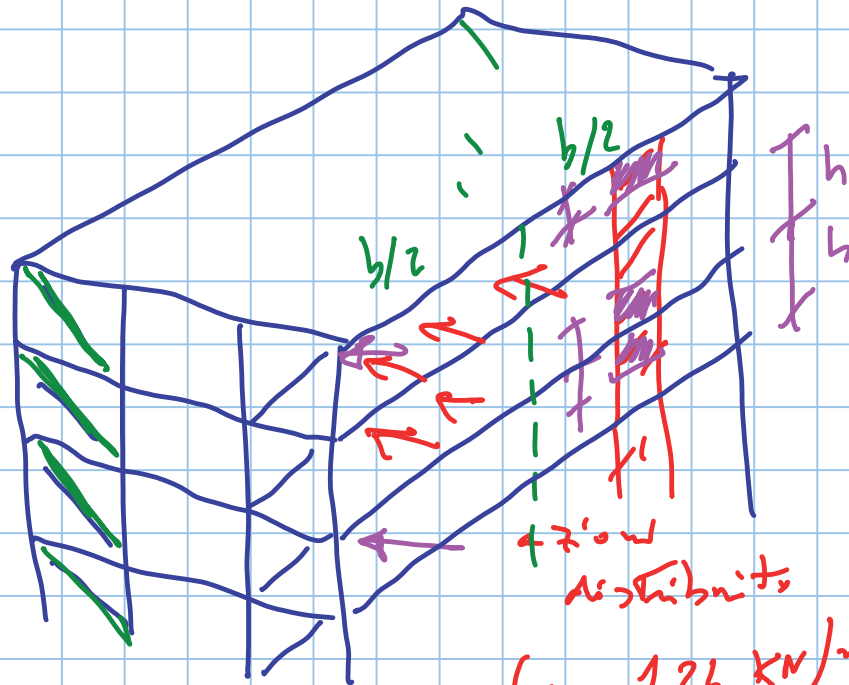


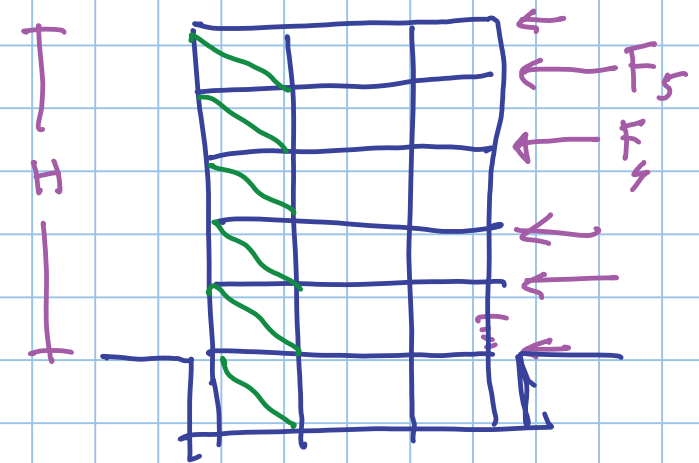
$$F_h = q_b c_e(H) c_{r,s,t} \cdot \frac{b}{2} h$$



(es  $1.26 \text{ kN/m}^2$ )

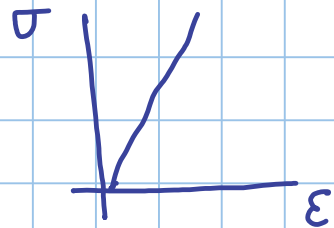
$$q_b c_e(H) c_{r,s,t}$$

vento



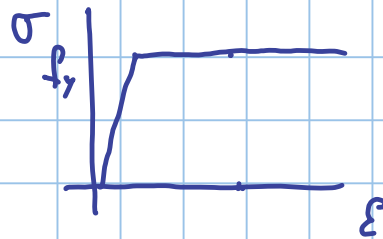
# TRAZIONE

SAC



$$\sigma = E \epsilon$$

TAC (SLV)

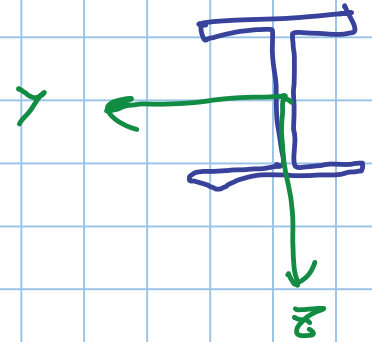


$$\sigma = E \epsilon$$

$$\text{per } \epsilon \leq \epsilon_y = \frac{f_y}{E}$$

$$\sigma = f_y$$

$$\text{per } \epsilon > \epsilon_y$$



- sezione omogenea e isotropa

- mantenimento della sezione piana  
=  
diagr. deformazioni lineari  
(o piano)

deformazione  $\rightarrow$  tensione  $\rightarrow$  caratteristica di sollecitazione

$\epsilon$

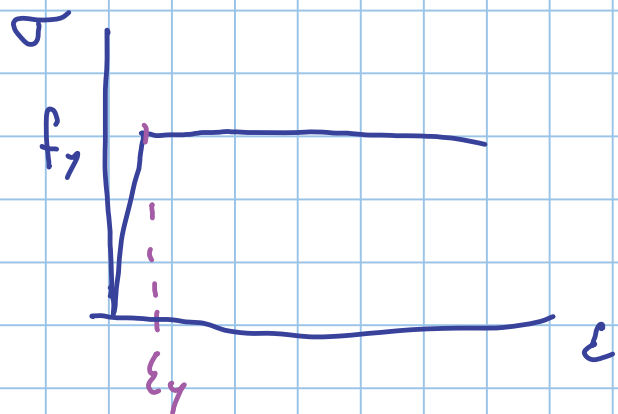
$\rightarrow$

$\sigma$

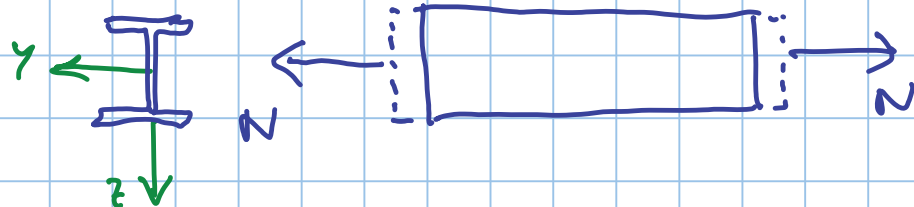
$\rightarrow$

$$N = \int \sigma dA$$

$$M_y = \int \sigma z dA$$



Tension



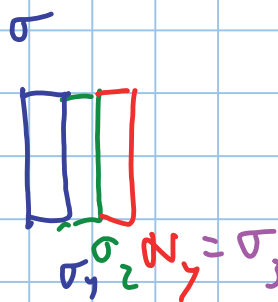
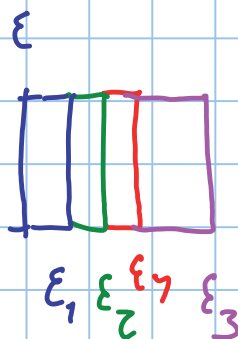
A.G.  $N$   
 $\epsilon = \frac{N}{EA}$   
 constante

Navier

$$\sigma = \frac{N}{A} + \frac{M_y}{I_y} z$$

$$\epsilon = \frac{N}{EA} + \frac{M_y}{EI_y} z$$

$$\epsilon = \epsilon_y \quad \sigma = f_y$$



$$\epsilon_1 = \frac{N_1}{EA}$$

$$\epsilon_2 = \frac{N_2}{EA}$$

$$\epsilon_y = \frac{N_y}{EA}$$

$$\sigma_1 = \frac{N_1}{A}$$

$$\sigma_2 = \frac{N_2}{A}$$

$$\sigma_y = f_y = \frac{N_y}{A}$$

$$N_y = A f_y$$

SLU

tensione massima

$$\frac{f_y}{\gamma_{m0}}$$

$$\gamma_{m0} = 1.05$$

$$N_{Rd} = A \frac{f_y}{\gamma_{m0}}$$

↑  
resistenza

↑  
design  
di calcolo

$$N_{t, Rd}$$

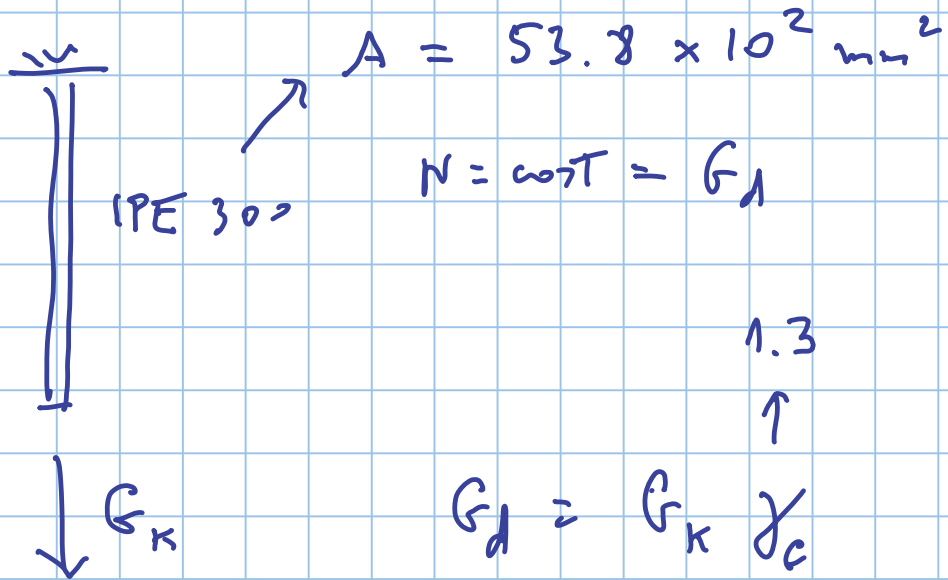
t = trazione

VERIFICA

$$N_{Ed} = f(s_d, q_d) \leq N_{Rd}$$

↑  
eff. n.

↑  
design



S 355

$$f_y = 355 \frac{\text{N}}{\text{mm}^2}$$

$$G_k = 500 \text{ kN}$$

$$G_d = 500 \times 1.3 = 650 \text{ kN}$$

$$N_{Ed} = 650 \text{ kN}$$

$$N_{Rd} = A \frac{f_y}{\gamma_{m0}} = 53.8 \times 10^2 \times \frac{355}{1.05} \times 10^{-3} = 1819 \text{ kN}$$

$$N_{Ed} < N_{Rd} \quad \text{sectione verificata}$$