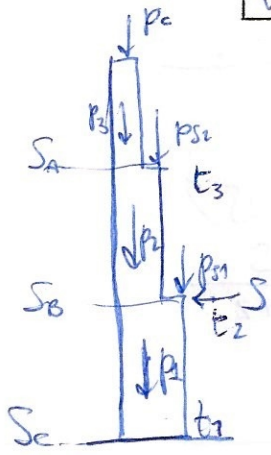
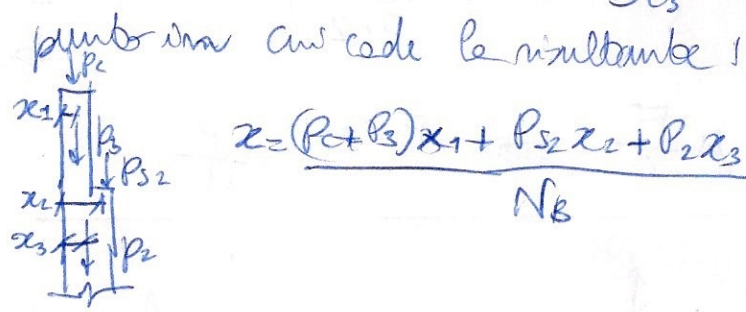


Verifiche muro



$S_A: N_A = P_c + P_3 \Rightarrow \sigma_A = \frac{N_A}{t_3 b} < \sigma_{acc}$

$S_B: N_B = P_c + P_{s2} + P_3 + P_1 \Rightarrow \sigma_B = \frac{N_B}{b t_3} < \sigma_{acc}$

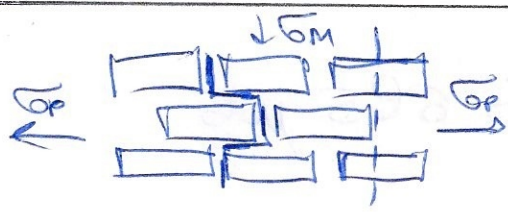


$z = \frac{(P_c + P_3)x_1 + P_{s2}x_2 + P_1x_3}{N_B}$

$S_C: \begin{cases} N_C = N_B + P_{s1} + P_1 \\ H = S \end{cases}$

risultante interna al muro (meglio al III medio)

$V \leq c (3ub) + \mu N \Rightarrow \frac{V}{N} < \mu = \tan \varphi$



rotazione moltiplicazione (---)

$f_{ob} b = 2(b+m) \sigma_{cp2}$   
 $\Rightarrow \sigma_{cp1} = \frac{1}{2} \sigma_{cp2} f_{ob}$

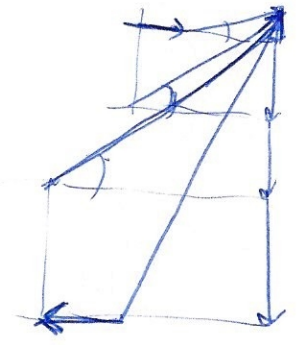
rotazione giunghi: (Z)

$\sigma_{cp2} 2(b+m) = \mu G_m \times \frac{l}{2}$   
 $\Rightarrow \sigma_{cp2} = \frac{1}{2} \mu G_m \frac{l}{b}$

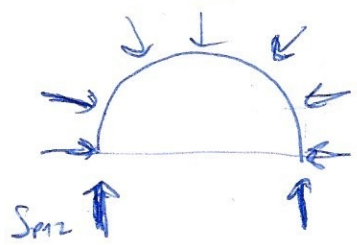
$P_k = 2 \pi r_k S_k l_k \gamma_m$

$S_{mk} = \frac{\sum_{i=1}^k p_{ki}}{\sin \theta_k}$

$\sigma_{mk} = \frac{\sum_{i=1}^k p_{ki}}{S_k 2 \pi r_k \sin \theta_k} \Rightarrow \frac{\sum_{i=1}^k S_i r_i l_i}{S_k r_k \sin \theta_k}$



$H_{n2} = S_{m2} \cos \theta_2 - S_{m1} \cos \theta_1 \Rightarrow \sigma_{n2} = \frac{H_{n2}}{2 \pi r_2}$



$S_{p12} = \int_0^{\pi/2} r_{12} \sigma_{n2} \sin \alpha d\alpha = r_{12} \sigma_{n2} = \frac{H_{n2}}{2 \pi}$

$\sigma_{n2} = \frac{H_{n2} / 2 \pi}{\frac{1}{2} (S_1 l_1 + S_2 l_2)} = \frac{S_2 \cos \theta_2 - S_1 \cos \theta_1}{\pi (S_1 l_1 + S_2 l_2)}$

$\sigma_{pk} = \frac{S_{k+1} \cos \theta_{k+1} - S_k \cos \theta_k}{\pi (S_{k+1} l_{k+1} - S_k l_k)}$

Cupole

# Consolidamento fondazioni

$$\sigma_c = \frac{F}{b \cdot i} \quad \sigma \leq \mu \sigma_c$$

$$\sigma_v = \frac{P}{S} \rightsquigarrow \sigma'_v = \frac{P}{S + 2S'}$$



$$P \cdot S = P' (S + 2S')$$

$$\Rightarrow P = P' \frac{S}{S + 2S'}$$

$$P' \leq \mu \frac{F}{i} \Rightarrow F \geq \frac{i P'}{\mu}$$