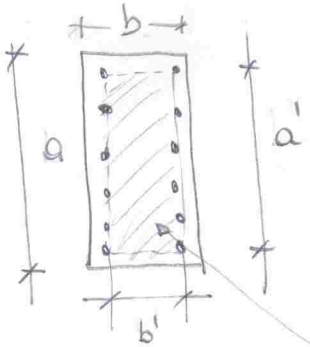


$a > b$

1) $\tau_{MAX\ TOR} = \alpha \dfrac{Mt}{a\,b^2}$

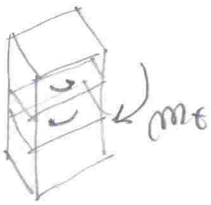
$\alpha = 3 + 1.8\,\dfrac{b}{a}$

2) $\tau_{TOT} = \tau_{MAX\ TAGLIO} + \tau_{MAX\ TOR} \leq 1.1\,\tau_{b1}$

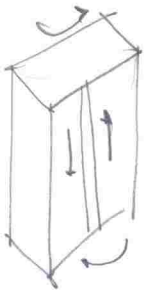
$A_{LONG} = \dfrac{(a'+b')\,Mt}{a'\,b'\,\sigma_4}$

$A_{ST}/ml = \dfrac{Mt \times 100}{2\,a'\,b'\,\sigma_4}$

] SI SOMMANO ARM. FLESS + TAGLIO !

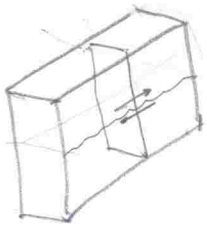


SCORRIMENTO TRASVERSALE → A_{LONG}



SCORRIMENTO LONGITUDINALE → ~~A_{STAFFE}~~

NEL TAGLIO SEZIONE RESISTENTE STAFFE



NELLA TORSIONE SEZ. RESIST.

ESEMPIO

$Mt = 17500\ \gamma_m$

$a > b$

$a' = 80 - 3.5 - 3.5 = 73\ cm$

$b' = 25 - 3.5 - 3.5 = 18\ cm$

$\tau_{MAX} = \left(3 + 1.8\,\dfrac{25}{80}\right)\dfrac{175000}{80 \cdot 25^2} = 12,47\ \gamma/cm^2 < 16,87$ (3,56; > 5,33)

$A_L = \dfrac{175000\,(73+18)}{73 \cdot 18 \cdot 2600} = 1,66\ cm^2$ (91)

$8\phi 10 = 6,32\ cm^2$

$A_{ST}/ml = \dfrac{175000 \times 100}{2 \times 73 \times 18 \times 2600} = 2,56\ cm^2/ml$

$n\ st\phi 8: \dfrac{2,56}{0,5} = 5,12 \rightarrow$ PASSO 19 cm stϕ8/19"

$n\ st\phi 10\ \dfrac{2,56}{0,79} = 3,24 \rightarrow$ PASSO 25 cm stϕ10/25"

DM 1992: $A_{ST}/ml \geq 0,15\,B \rightarrow 0,15 \times 25 = 3,75\ cm^2/ml \rightarrow n\phi 10 \geq \dfrac{3,75}{0,79} \geq 4,75 \rightarrow 5\ st/ml$

PASSO MAX $=$ MIN $\left[\begin{array}{l} \dfrac{\text{PERIMETRO CERCHIATO}}{8} = \dfrac{2\,(73+18)}{8} \geq 22,8\ cm \\ 20\ cm \end{array}\right\} \rightarrow 20\ cm$ (91)

INSERIRSI stϕ10/20"

MAX DIST. ARM. LONGIT. → 35 cm