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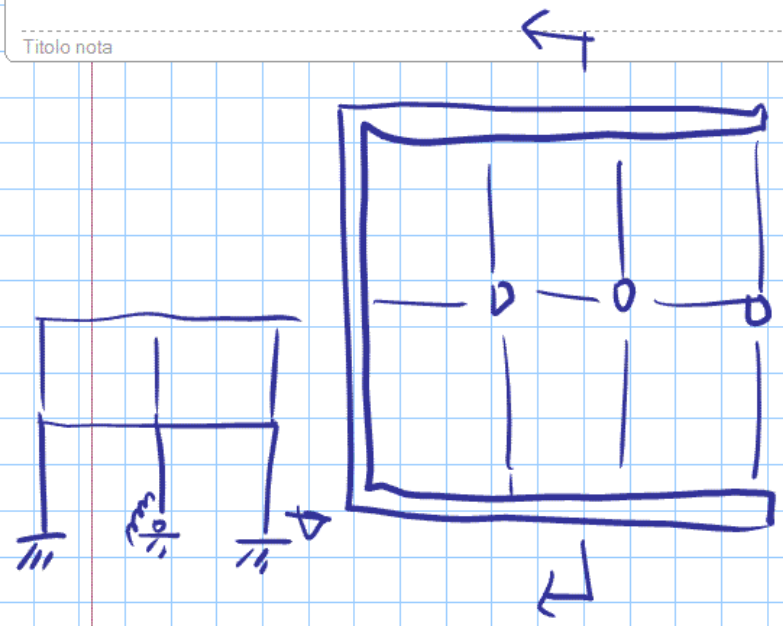
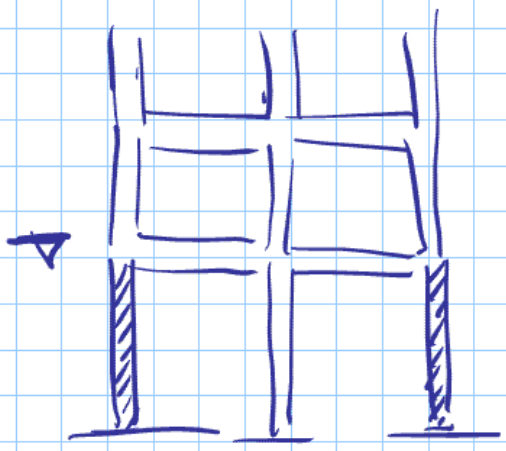
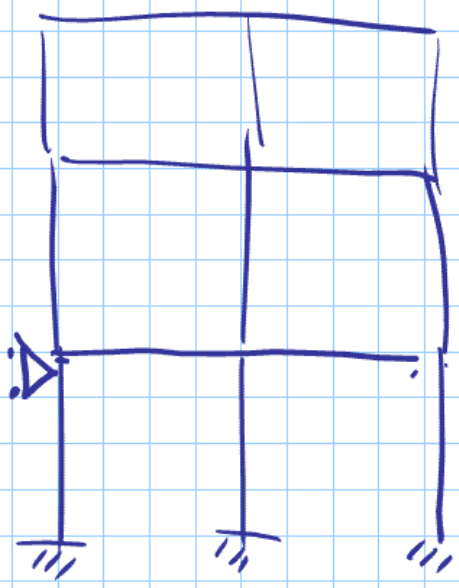
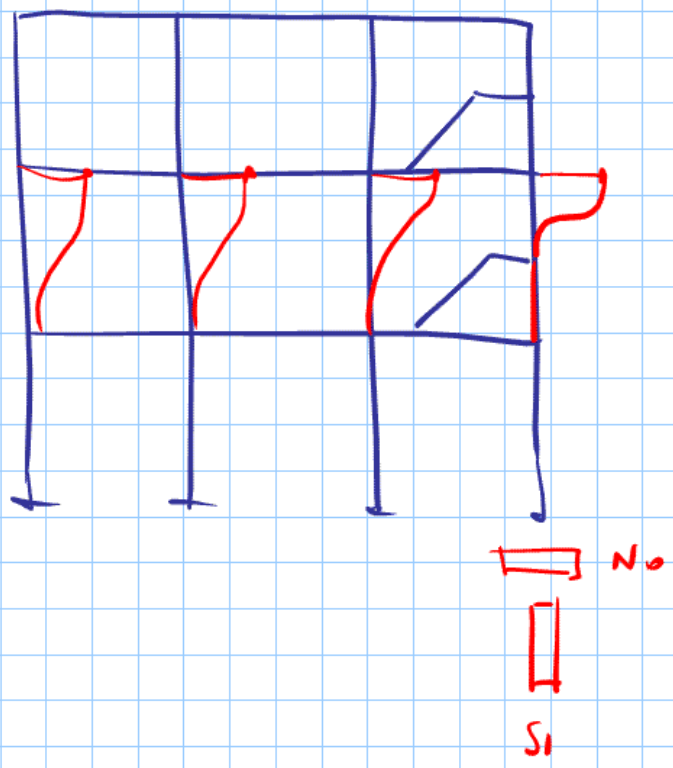
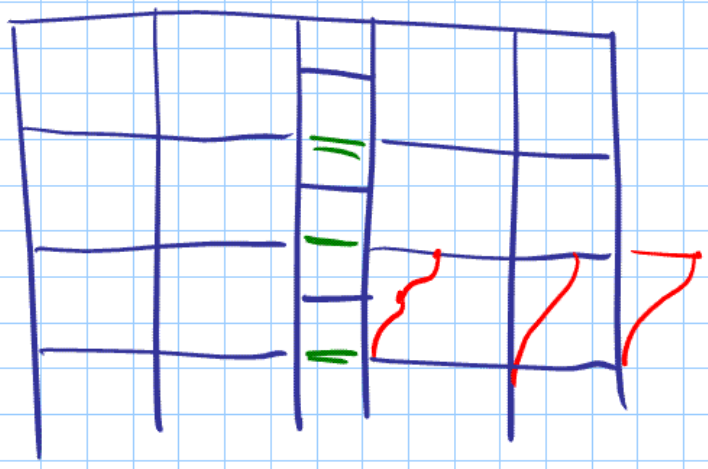
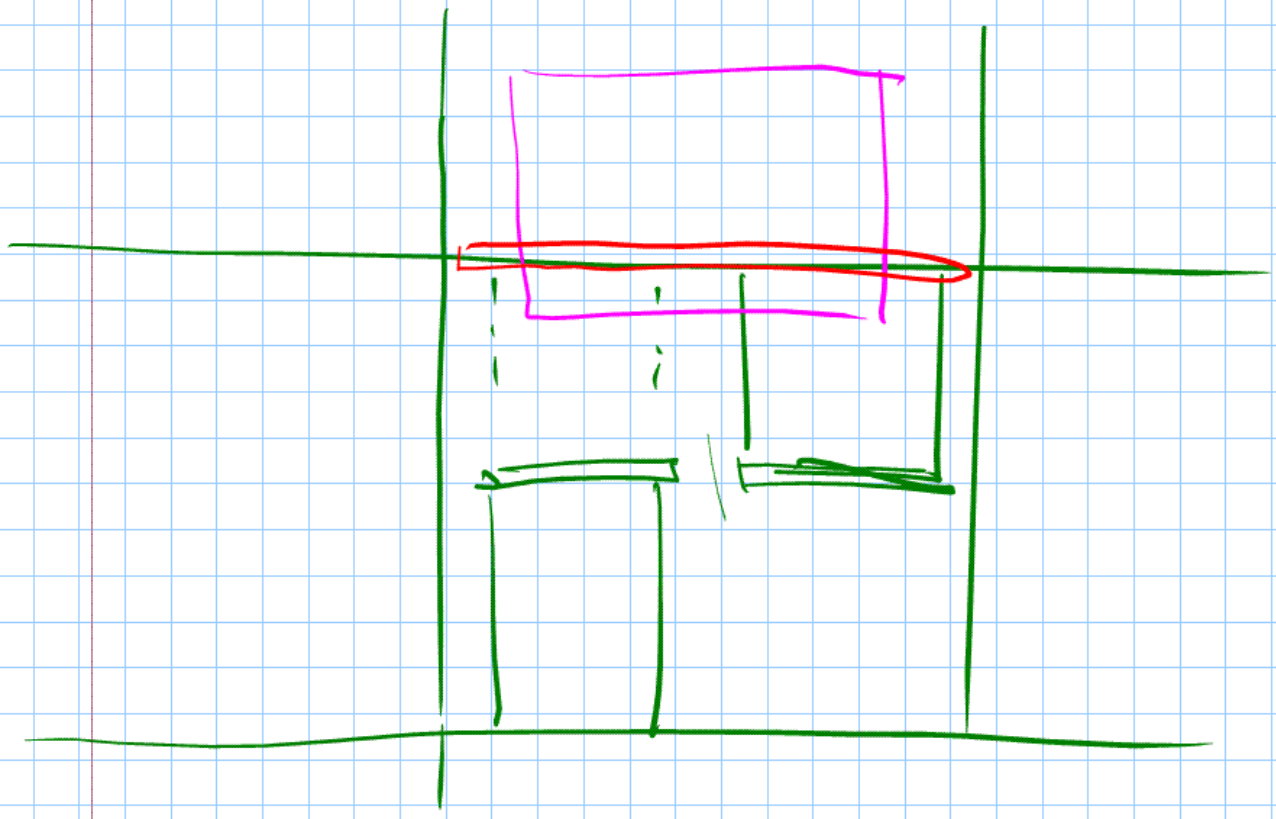


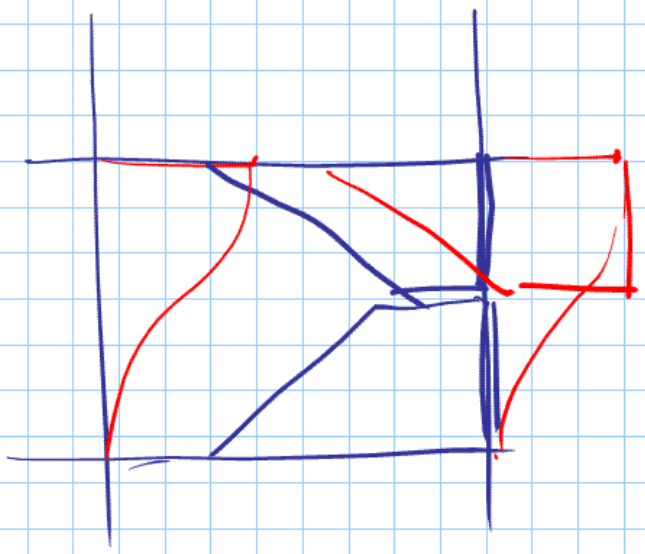




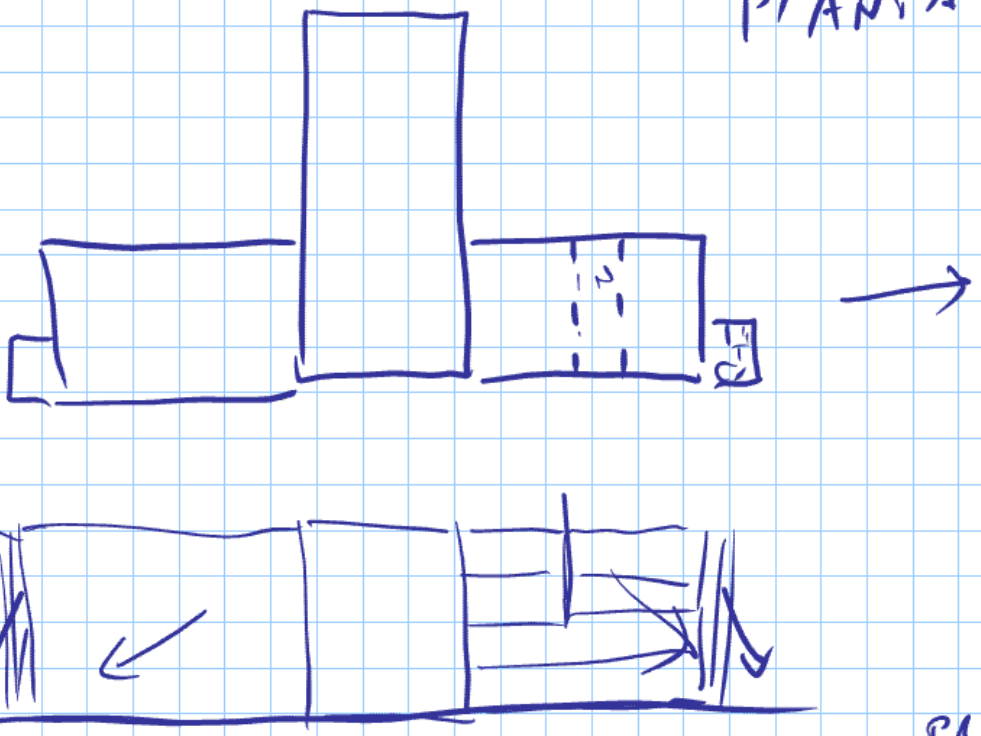

No
Si

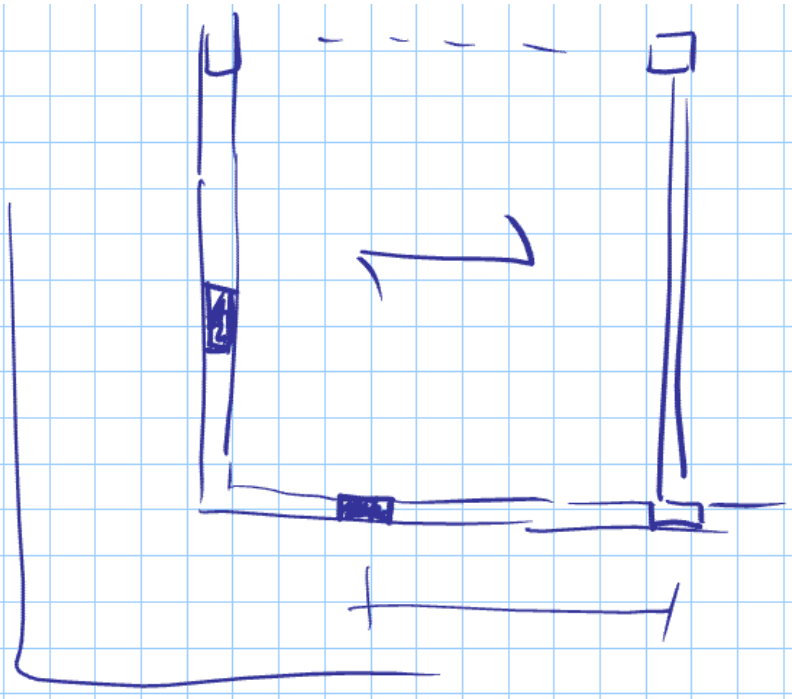


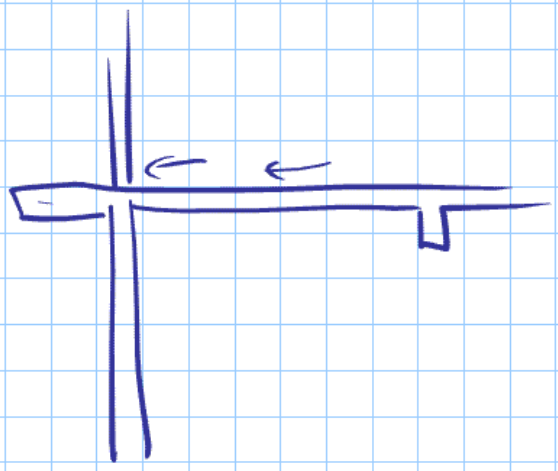




PIANTA







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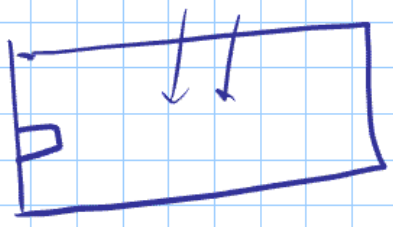

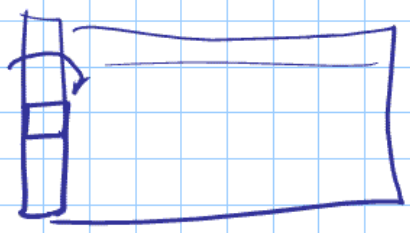

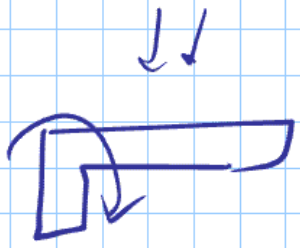

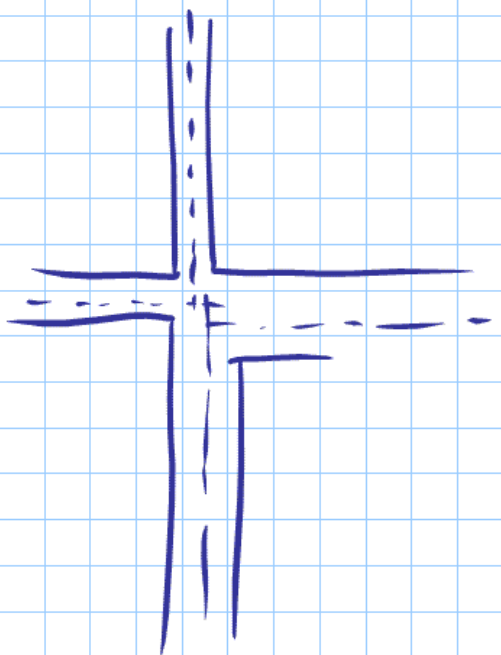

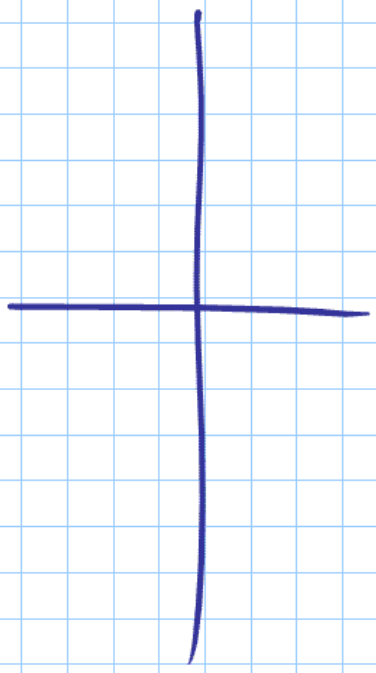

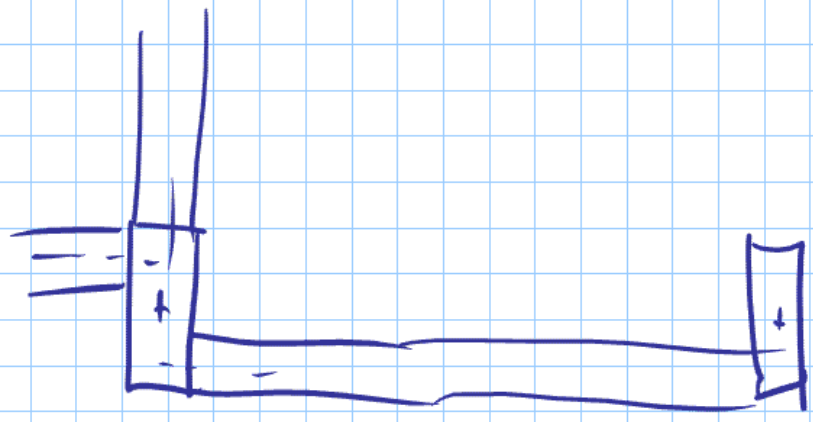

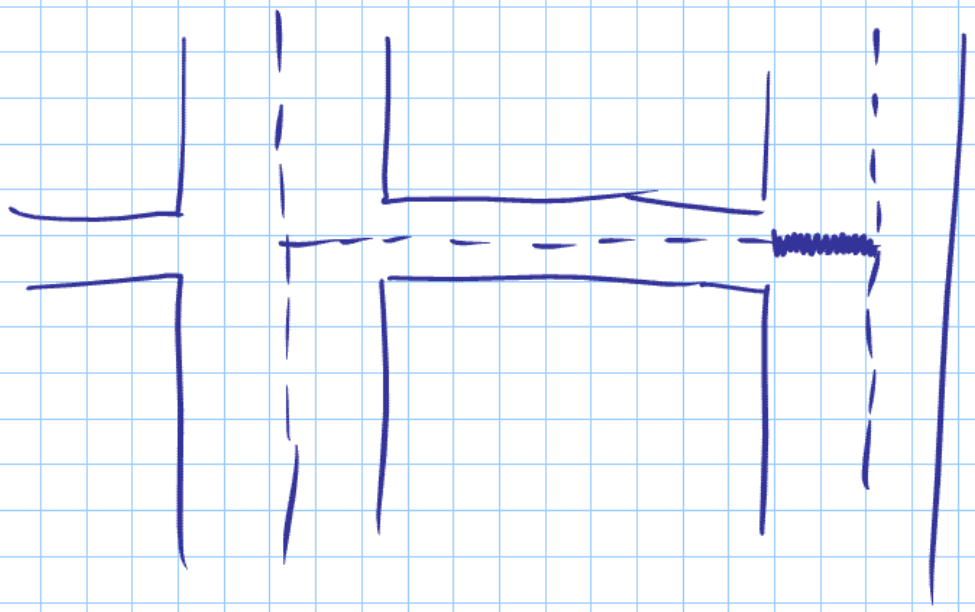

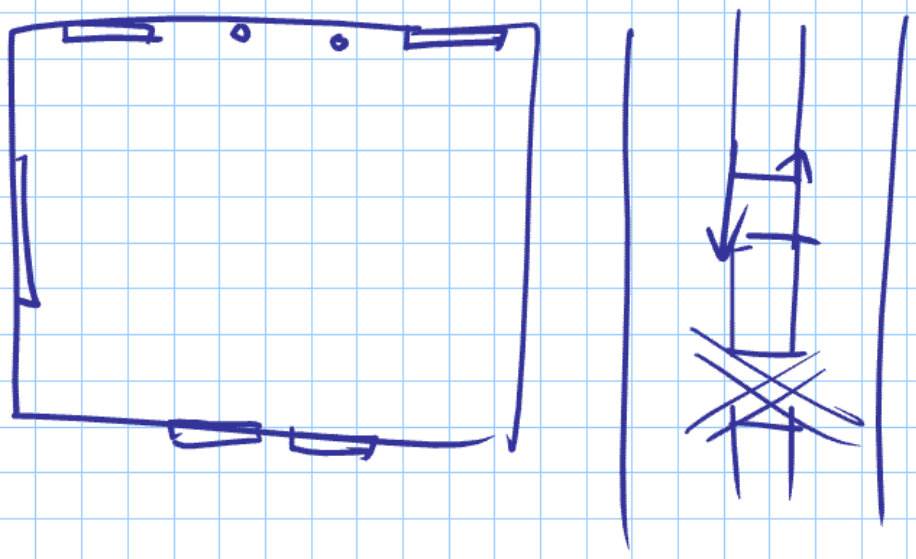

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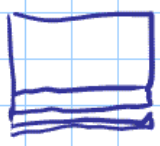
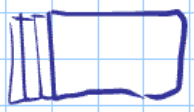
> 80 %

> 80 %



1



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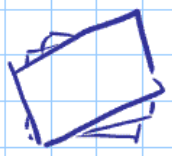
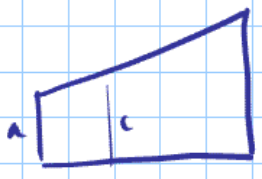
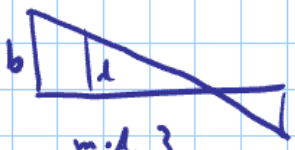


3

$T_1 \simeq T_2$

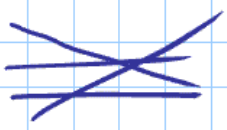
$T_3 < T_1, T_2$





m.d. 3

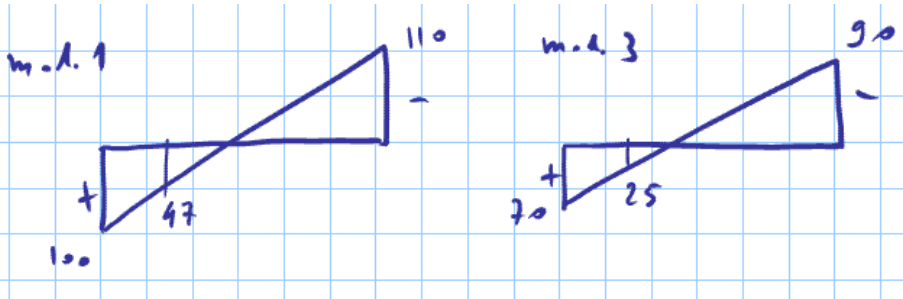
m.d. 1

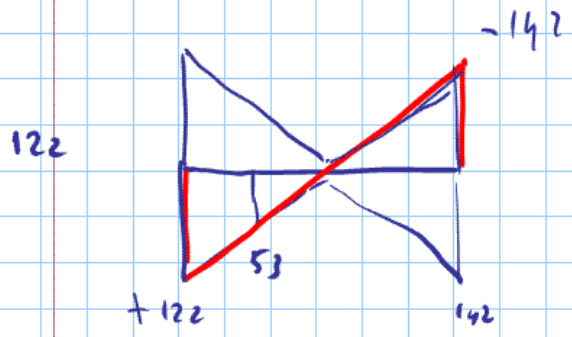


$\sqrt{a^2+b^2}$ SRSS

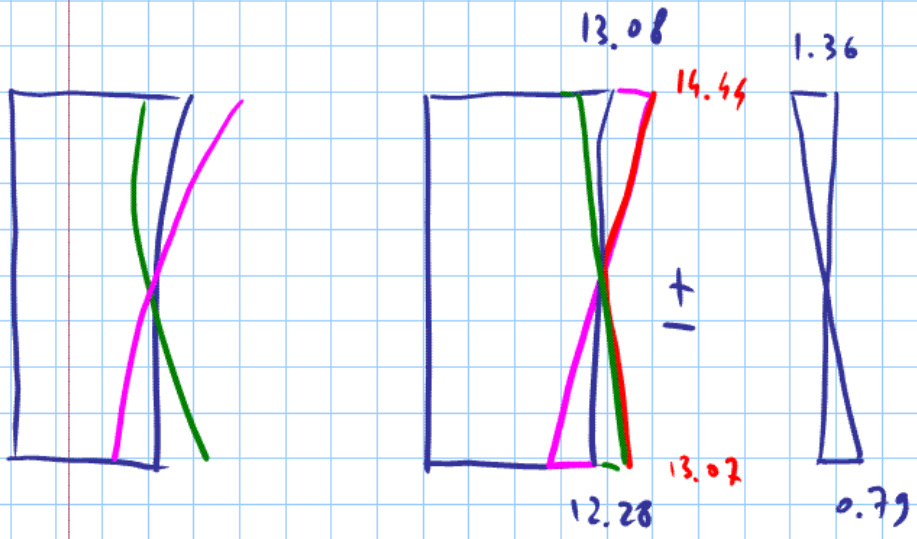
$\sqrt{a^2+b^2+kab}$ CQC

$-2 \leq k \leq +2$


m.d. 1
110
−
+
47
100
m.d. 3
90
−
+
70
25


−142
122
53
+122
142

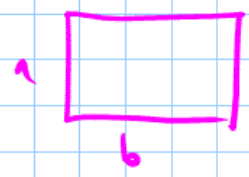
142


13.08
1.36
14.44
+
−
13.07
12.28
0.79

$\rho_k^2 = r^2 =$ raggio d'inerzia polare $= \frac{\sum k d^2}{\sum k}$

$\rho_m^2 = \ell_s^2 =$ raggio d'inerzia massa (funzione delle dimensioni)

$\frac{r}{\ell_s} \geq 0.8$



$I_1 = \frac{ab^3}{12} + \frac{a^3 b}{12} \quad \left| \frac{I}{A} = \frac{b^2 + a^2}{12} \right.$

$A = ab$

TORSIONALM. DEFORMABILE

SE $\frac{r}{\ell_s} < 0.8$

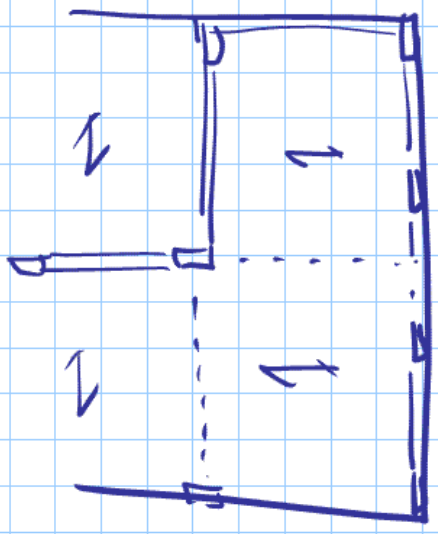
$T_t = 2\pi \sqrt{\frac{m}{k}}$

$T_2 = 2\pi \sqrt{\frac{m \rho_m^2}{k \rho_k^2}}$

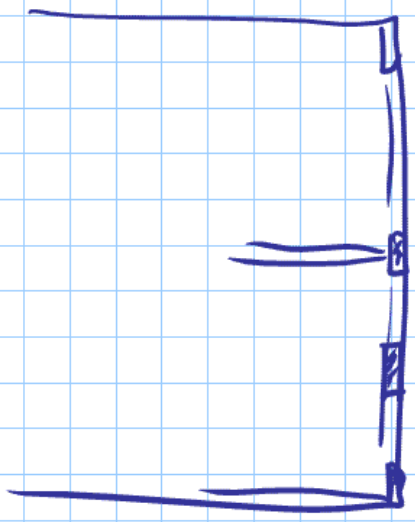
$\frac{\rho_k}{\rho_m} < 0.8$

$\frac{T_t}{T_2} = \frac{\rho_k}{\rho_m}$

$\frac{T_t}{T_2} \cdot \frac{0.58}{0.41} = 1.26 \quad \left| \frac{T_t}{T_2} < 0.8 \right.$



possibile ?



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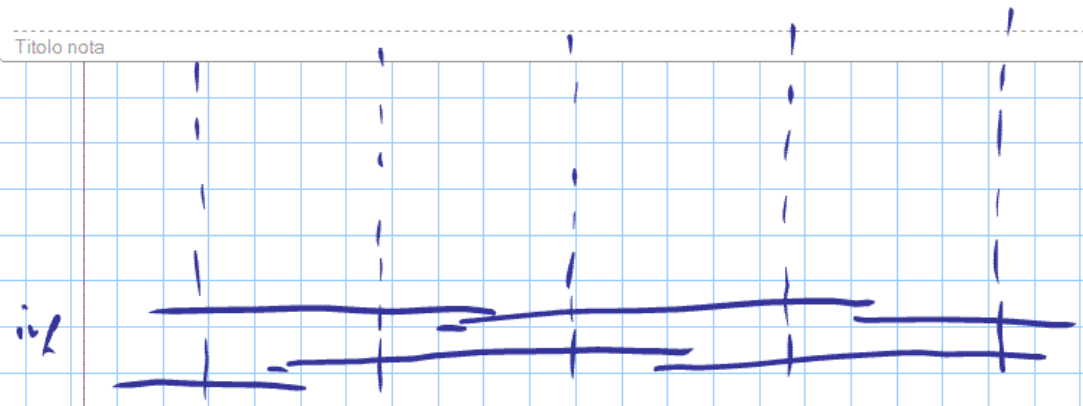

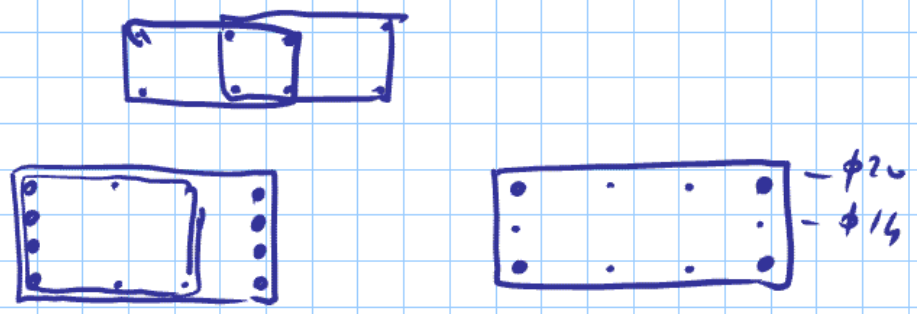

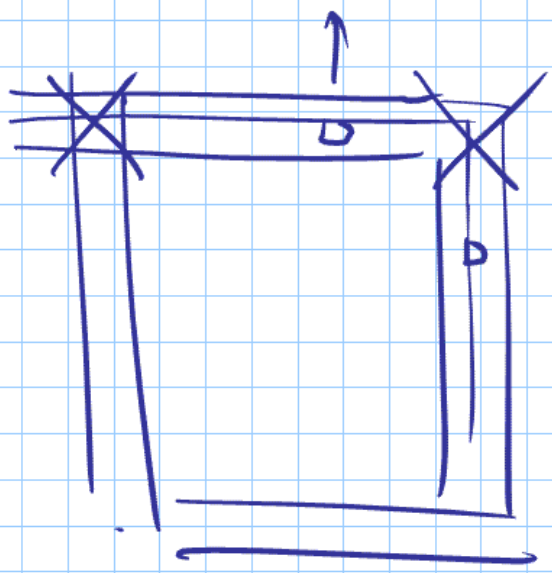
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