

## TRAVE RETICOLARE

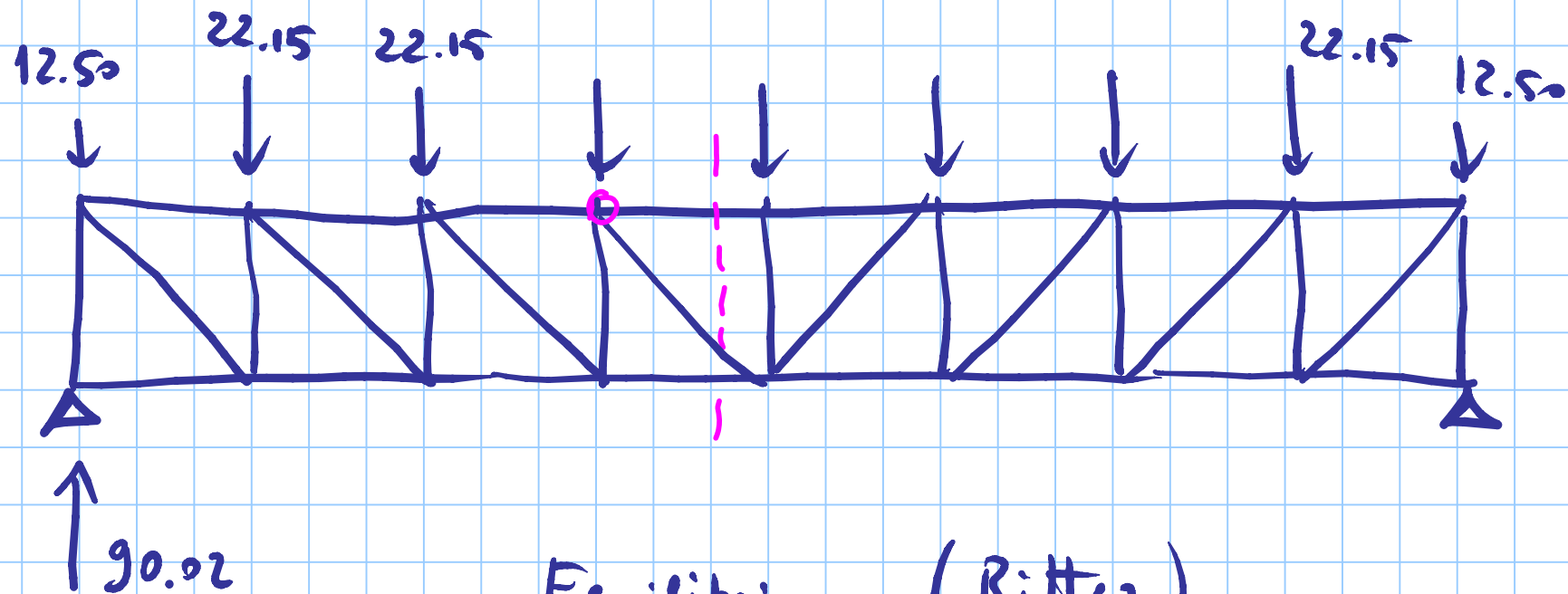
muve	$q_k = 0.80 \text{ kN/m}^2$	$\gamma_q = 1.5$	$q_d = 1.20 \text{ kN/m}^2$
p.p. lam. gu.	$q_k = 0.20 \text{ kN/m}^2$	$\gamma_g = 1.3$	$q_d = 0.26 \text{ kN/m}^2$
p.p. Trave acc.	$q_k = 0.3 \text{ kN/m}$		$q_d = 0.39 \text{ kN/m}$
p.p. ante Tr. ret.	$q_k = 0.2 \text{ kN/m}$		$q_d = 0.26 \text{ kN/m}$

calcolo di  $F_d$  (modi interni)

	$g_d$	$q_d$	
coperture $12 \text{ m}^2$	3.12	14.40	kN
trave sec. 6 m	2.34	-	
rete Tr. ut. 8.8 m	2.29	-	
	<hr/>	<hr/>	
	7.75	14.40	Tot. 22.15 kN

modo esterno

cop. $6 \text{ m}^2$	1.56	7.20	
tr. sec 6 m	2.34	-	
tr. ut. 5.4 m	1.40	-	
			Tot. 12.50 kN

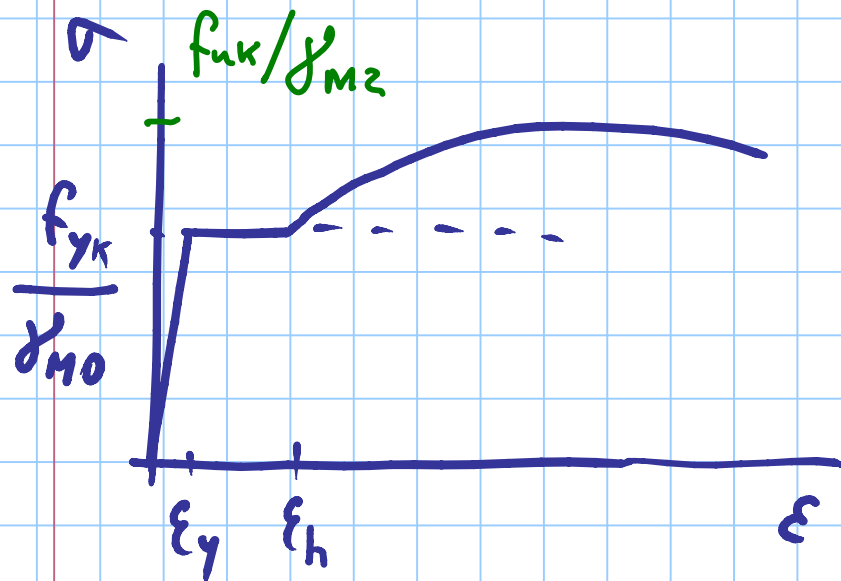


M.B. result  
at TA

$$\frac{90.02}{63.34} = 1.42$$

$$-(90.02 - 12.50) \times 6.00 + 22.15 \times 4.00 + 22.15 \times 2.00 + N_{Ed} \times 2.00 = 0$$

$$N_{Ed} = 166.1 \text{ KN}$$



$\gamma_{M1}$  per instabilità  
in pratica  $\gamma_{M1} = \gamma_{M0}$

$$\gamma_{M0} = 1.05$$

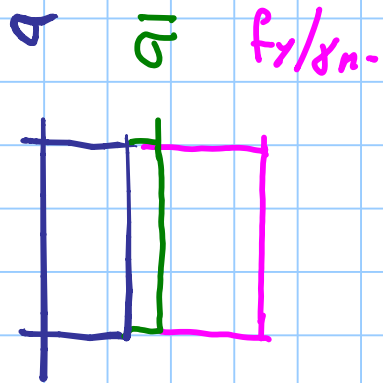
$$\gamma_{M1} = 1.05$$

$$\gamma_{M2} = 1.20$$

S 235

$$f_{yk} = 235 \text{ MPa}$$

$$\frac{f_y}{\gamma_{M0}} = \frac{235}{1.05} = 223.8 \text{ MPa}$$



$$\sigma = \frac{N}{A}$$

T.A.

$N$

$$\sigma = \frac{N}{A}$$

$$\sigma \leq \sigma_1$$

SLU

$N_{Ed}$

$N_{Rd}$

$$N_{Ed} \leq N_{Rd}$$

effetti / design (projecto, calc.)  
 costante

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

verifica  $N_{Ed} \leq N_{Rd}$

PROGETTO

$$N_{Ed} \leq A \frac{f_y}{\gamma_{m0}}$$

$\Rightarrow$

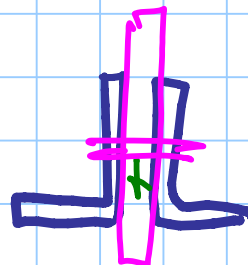
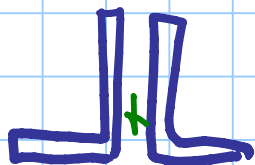
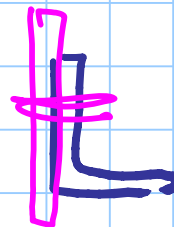
$$A \geq \frac{N_{Ed}}{f_y / \gamma_{m0}} = \frac{N_{Ed} \gamma_{m0}}{f_y}$$

$$A \geq \frac{166.1 \times 10^3}{235/1.05} = 742.1 \text{ mm}^2 = 7.421 \times 10^2 \text{ mm}^2$$

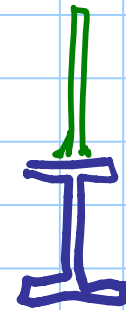
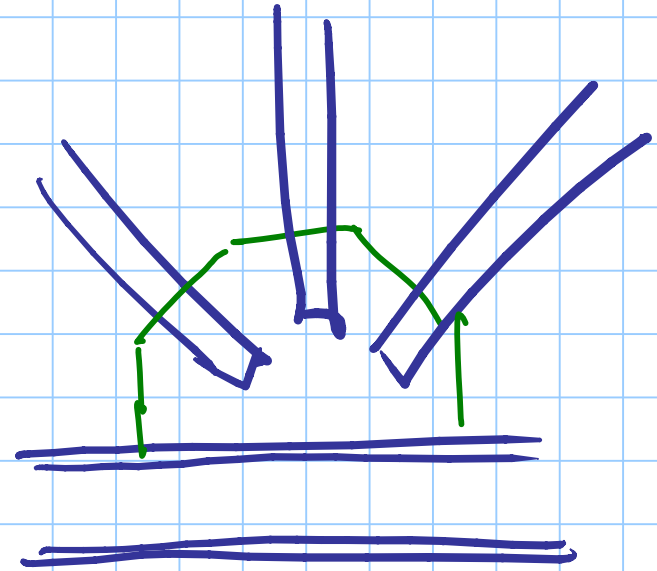
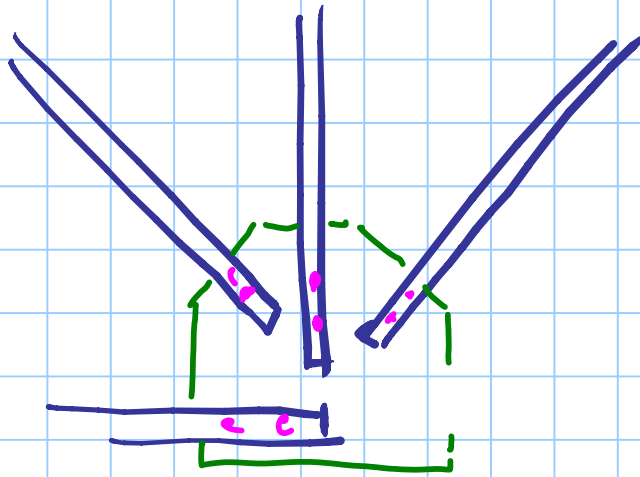
ante Tex poco caricati



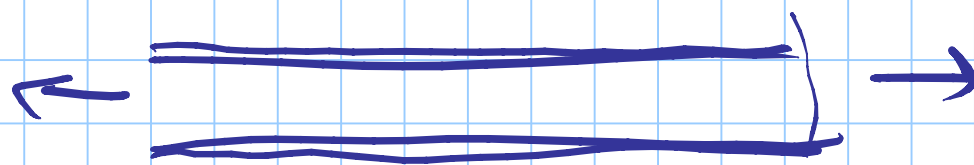
are piccole



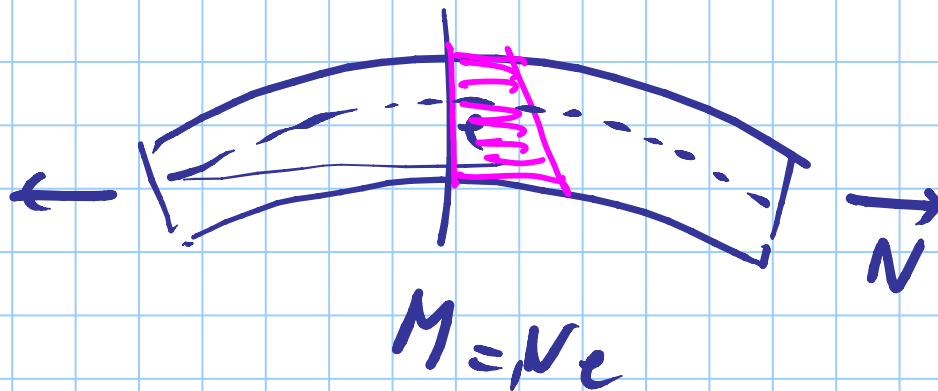




PERFETTO  $\leftrightarrow$  IMPERFETTO

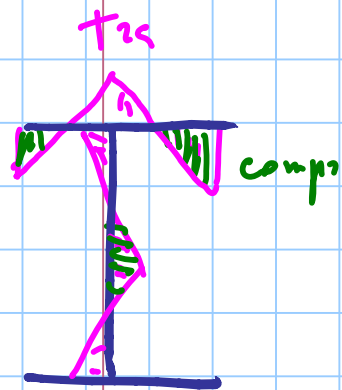


IMPERFEZIONI  
GEOMETRICHE



ASSE NON  
RETTILINEA.

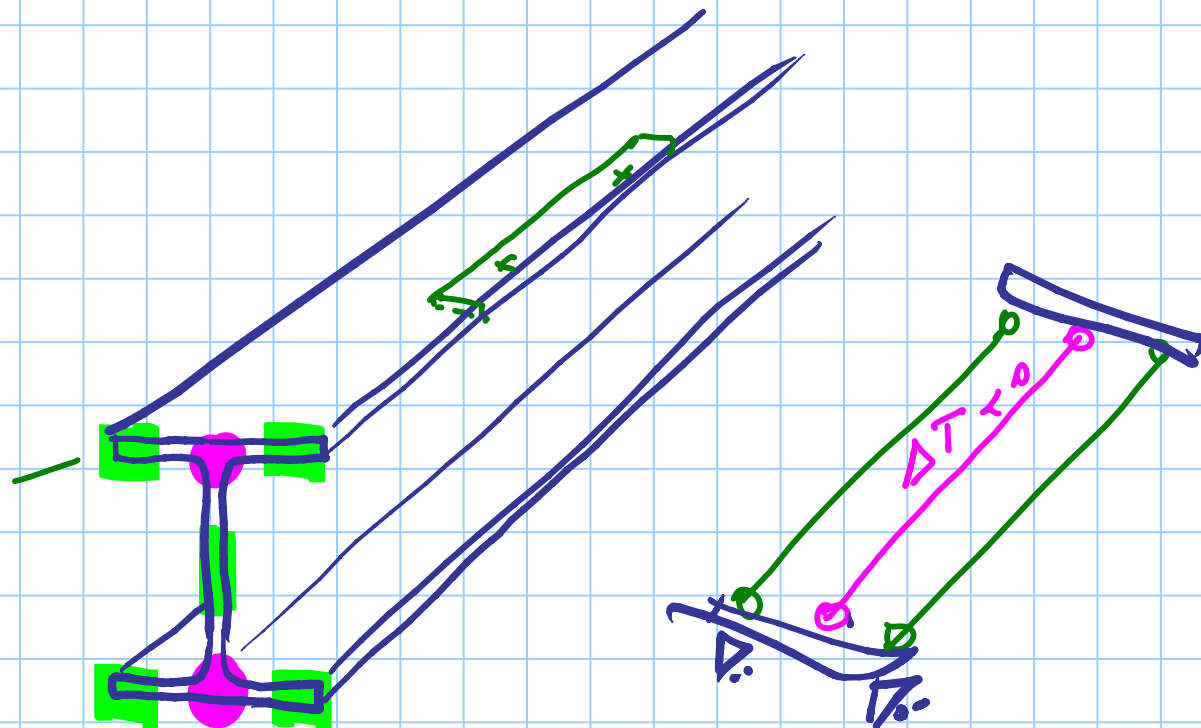
# IMPERFEZIONI MECCANICHE



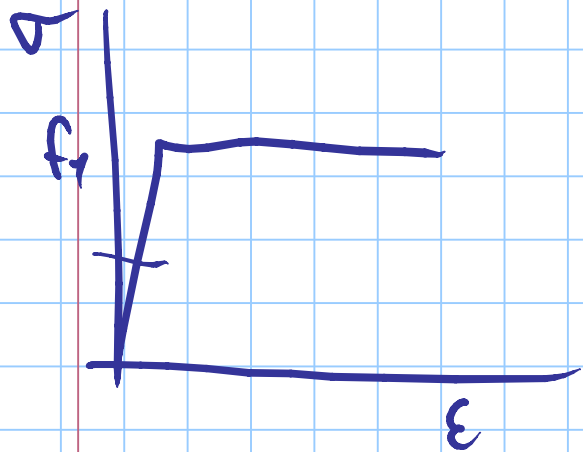
COMPRESSIONE

TENSIONI  
RESIDUE

si raffredda  
prima

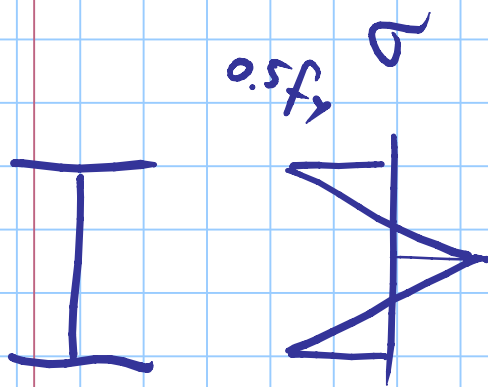


si raffredda dopo  
TRAZIONE

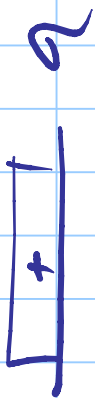


$+$   
 $T_{u2}$

$-$   
 $comp.$



+



=

