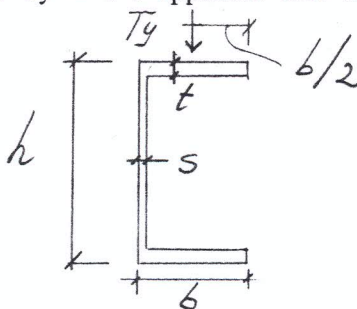


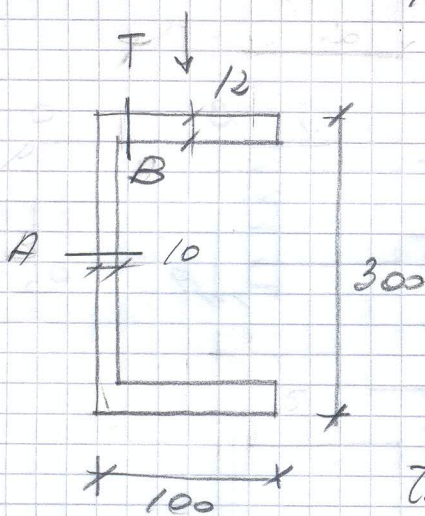
Cognome.....Nome.....
Anno di Corso.....Tests da recuperare: 1 2 3

C.2 Verificare la seguente sezione in acciaio Fe 360, di dimensioni $b = 10$ cm, $h = 30$ cm, $s = 1$ cm, $t = 1,2$ cm, soggetta al taglio $T_y = 1$ t applicato alla metà dell'ala superiore.



$$\sigma_{CO} = 0,00960290$$

C.2)



$$T = 1E$$

Fe 360

$$\tau_{2x \max} = \frac{T S_x}{I_x b}$$

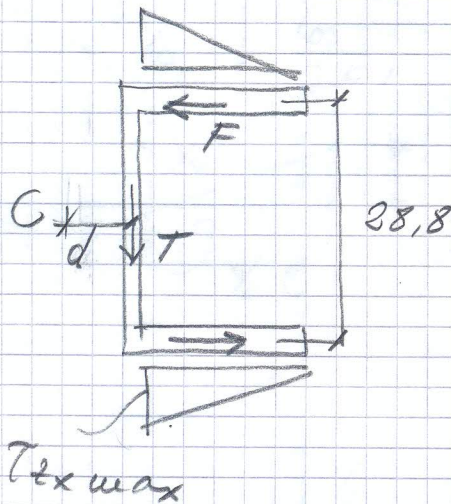
$$S_x = (10 - 1) \cdot 1,2 \cdot (15 - 0,6) = 155,52 \text{ cm}^3$$

$$\tau_{2x \max} = \frac{T \cdot 155,52}{8028 \cdot 1,2} = 0,01614 T$$

$$F = \frac{\tau_{zx \max} \cdot 9 \cdot 1,2}{2} = 0,08715 T$$

$$F \cdot (30 - 1,2) = F \cdot 28,8 = M = 2,50992 T$$

$$Td = M \quad \left| \quad d = \frac{M}{T} \approx 2,5$$

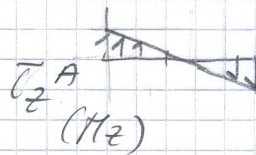


$$M_2 = 1000 (5 - 0,5 + 2,5) = 7000 \text{ kg cm}$$

$$\tau_{zy}^A = \frac{T (155,52 + (15 - 1,2)^2 / 2)}{8028 \cdot 1} = 31,23 \text{ kg/cm}^2$$

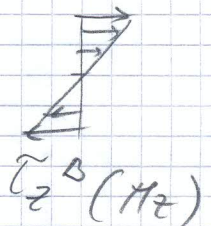
$$\tau_z^A = \frac{3M_2 \cdot 1}{(M_2) (9 \cdot (1,2)^3 \cdot 2 + 27,6 \cdot 1^3)} \approx 358 \text{ kg/cm}^2$$

58,704



$$\tau_{zx}^B = 16,14 \text{ kg/cm}^2$$

$$\tau_z^B = \frac{3M_2 \cdot 1,2}{58,704} = 429 \text{ kg/cm}^2$$



$$\tau_{z \max} = 429 + 16,14 \approx 445 \text{ kg/cm}^2$$

$$\sigma_{id} = \sqrt{3 \tau_z^2} = 771 \text{ kg/cm}^2 < \sigma_{am} = 1600 \text{ kg/cm}^2$$