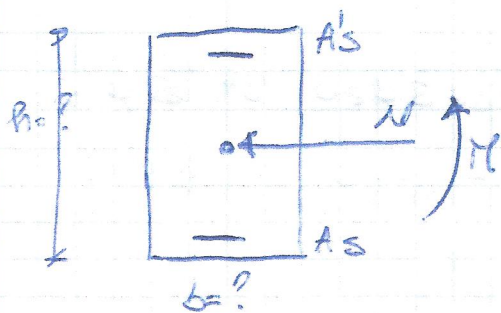


Progetto sez. rettangolare presso inflessione (Tens. unim.)



$$\mu = \mu' = 0,50\% = \frac{A_s}{b h}$$

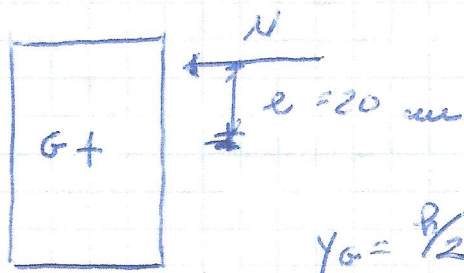
$$N = 500 \text{ kN}$$

$$M = 100 \text{ kNm}$$

$$\sigma_c = 2,5 \text{ MPa}$$

$$\sigma_s = 220 \text{ MPa}$$

$$e = \frac{M}{N} = 20 \text{ cm}$$



si considera

$$\sigma_{mm} = \frac{N}{b \cdot h} = 3 \text{ MPa per cui al } 50\% \text{ di } \bar{\sigma}_c = 0,7 \bar{\sigma}_c$$

essendo $\nu = \frac{N}{b h \bar{\sigma}_c}$ si ha $\nu = \frac{\sigma_{mm}}{\bar{\sigma}_c} = 0,35$

$$\left. \begin{array}{l} \frac{l}{h} = 2,23 \\ \mu = \mu' = 50\% \end{array} \right\} \begin{array}{l} \text{dall'elenco si legge} \\ \text{per trav.} \\ \text{alte } \frac{l}{h} = 0,05 \end{array} \quad \frac{e}{h} = 0,39$$

$$\frac{e}{h} = 0,39 \text{ per } e = 20 \text{ cm} \Rightarrow h = 51,28 \text{ cm}$$

$$b = \frac{N}{\nu h \bar{\sigma}_c} = 33 \text{ cm}$$

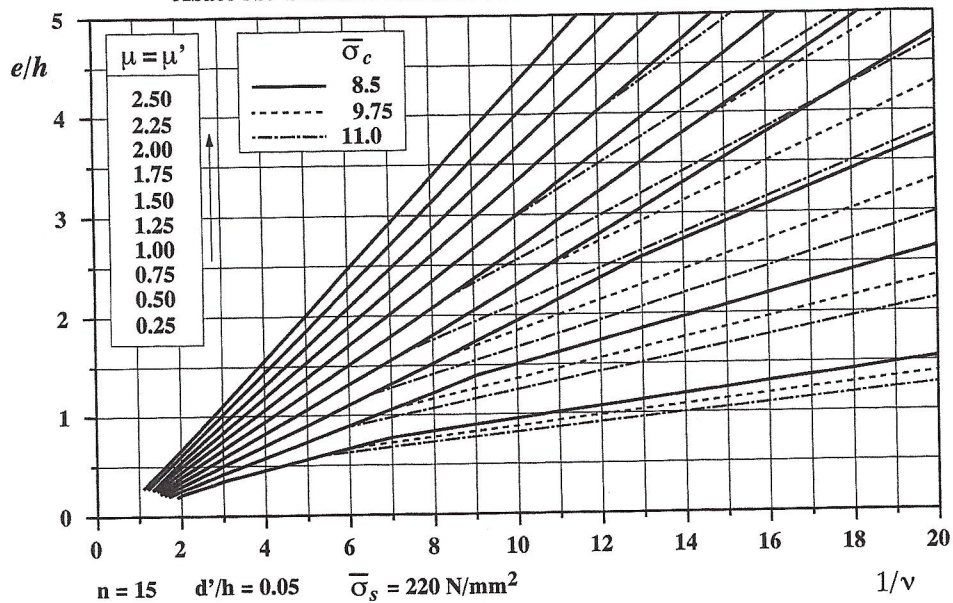
$$\left. \begin{array}{l} b = 35 \text{ cm} \\ \Rightarrow h = 50 \text{ cm} \end{array} \right\}$$

$$A_s = A'_s = \mu \cdot b \cdot h = 2,75 \text{ cm}^2$$

$$\Rightarrow A'_s = 3 \phi 20 \text{ "o" } 5 \phi 16$$

$$A_s = 3 \phi 20 \text{ "o" } 5 \phi 16$$

Abaco 3b: SEZIONE RETTANGOLARE - PRESSOFLESSIONE



Abaco 3e: SEZIONE RETTANGOLARE - PRESSOFLESSIONE

