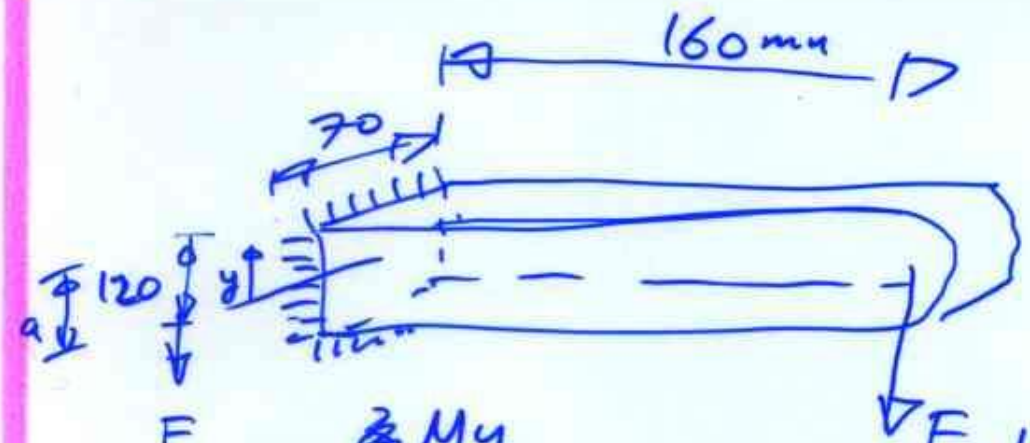

$$\frac{F}{A} + \frac{My}{I}$$

Bending moment

$$(160\times10^{-3})(10\times10^{3}) = 1600\,NM$$

$$I_{x\,vert\,welds.} \quad 2\left(\frac{L^3 t}{12}\right) = 2\left(146\times10^{-9}t\right)\ m^4$$

(120 mm)

$$I_{x\,Hz.\ welds.} \quad 2Lta^2 = (2)(70)(t)(60^2)$$

$$2(252\times10^{-9}t)\ m^4$$

$$I_{x\,total} = I_{x\,vert} + I_{x\,Hz}$$

then you have M, I, y

calc stresses.

Ans. $t = 1.86\,mm$

$h = \sim 3\,mm.$

$\therefore \boxed{\sigma_y = 345\,MPa}$