

$$\sigma_y = 345 \text{ MPa}$$

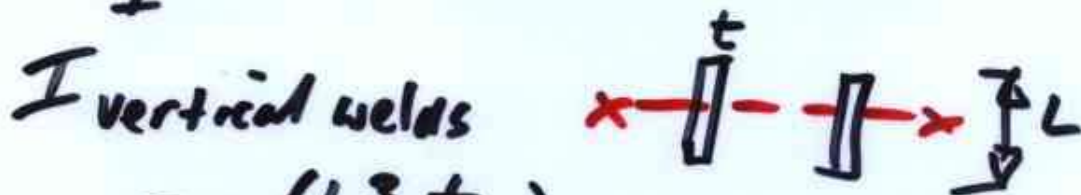
find required WELD dimension

① Bending moment

$$(10 \times 10^3) (16 \times 10^{-3}) = 16000 \text{ Nm}$$

② $\sigma = \frac{My}{I}$

NEED I_{xx}

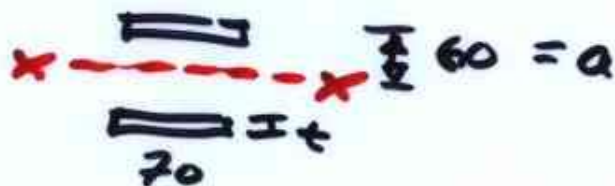


$$I = \left(\frac{L^3 t}{12} \right) (\times 2)$$

↑
2 welds

$$= 2 (144 \times 10^{-9} t) \text{ m}^4$$

I_{xz} welds



$$= 2 L t a^2$$

$$= 2 (70)(t)(60)^2 = 2 (252 \times 10^{-9} t) \text{ m}^4$$