

8-126. The two semicircles used in the construction of an aircraft fuselage are joined together using a 10° half-strength weld. Determine the average normal and average shear stress on the plane of each weld. Assume each vertical plate supports a horizontal force of 400 kN.

$$F_1 = 400 \text{ kN} \quad 10^\circ = 10^\circ \quad F_2 = 400 \text{ kN}$$

$$400 \text{ kN} \cos 10^\circ = F' = 396.41 \text{ kN} \quad F'' = 69.64 \text{ kN}$$

$$A' = \frac{1.5(11)}{\sin 10^\circ} = 8.54 \text{ m}^2$$

$$\sigma = \frac{F'}{A'} = \frac{396.41}{8.54} = 46.4 \text{ MPa}$$

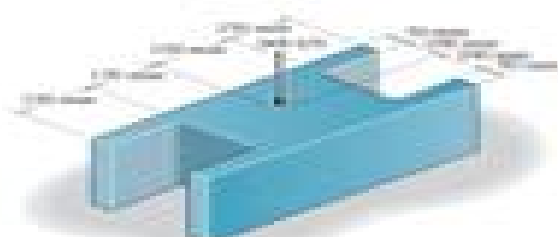
$$\tau = \frac{F''}{A'} = \frac{69.64}{8.54} = 8.15 \text{ MPa}$$



Ans.

Ans.

8-126. If the block is subjected to the vertically applied force of 600 kN, determine the average normal stress in the material. Show the stress acting on a differential volume element of the material.

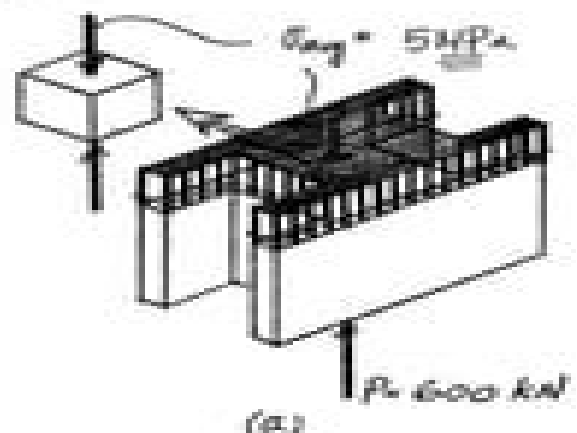


Ans.

The gross cross-sectional area of the block is $A = 0.0015(150) + 0.001(100) + 0.0015(150) = 0.0035 \text{ m}^2$.

$$\sigma_{\text{avg}} = \frac{P}{A} = \frac{600 \text{ kN}}{0.0035} = 171.43 \text{ MPa} \quad \sigma_{\text{avg}} = 171.43 \text{ MPa}$$

The average normal stress distribution over the cross-section of the block and the state of stress of a point in the block represented by a differential volume element are shown in Fig. a.



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