

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.

$$F_1 = 400 \text{ kN} \quad 10^\circ = \theta_1 \quad F_2 = 400 \text{ kN}$$

$$400 \cos 10^\circ = F' = F_1 \quad F' = 394.44 \text{ kN}$$

$$A' = \frac{1.5(1.5)}{\cos 10^\circ} = 2.267$$

$$\sigma = \frac{F'}{A'} = \frac{394.44}{2.267} = 173.7 \text{ psi}$$

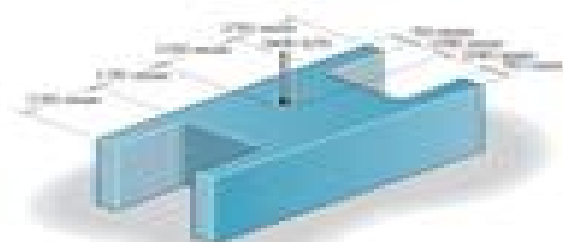
$$\tau = \frac{F'}{A'} = \frac{394.44}{2.267} = 173.7 \text{ psi}$$



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.

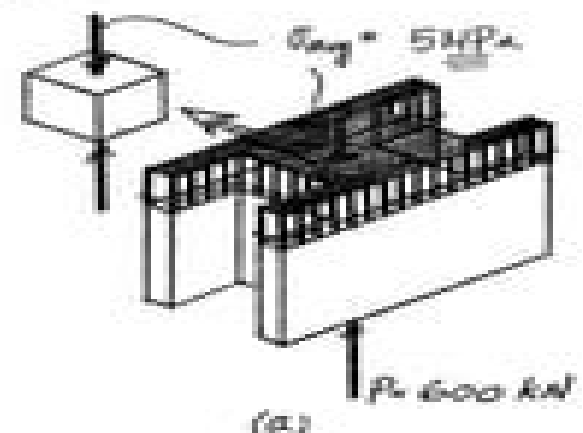


Ans.

$$\text{The gross cross-sectional area of the block is } A = 0.15(0.15) = 0.0225 \text{ m}^2$$

$$\sigma_{avg} = \frac{P}{A} = \frac{600 \text{ kN}}{0.0225} = 26.67 \text{ MPa} \quad \sigma_{avg} = 26.67 \text{ MPa}$$

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.



(a)

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JS Bruner



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