

11-1. The simply supported beam is made of timber that has an allowable bending stress of $\sigma_{allow} = 6.5$ MPa and an allowable shear stress of $\tau_{allow} = 500$ kPa. Determine its dimensions if it is to be rectangular and have a height-to-width ratio of 1.25.



$$I_x = \frac{1}{12} (b)(1.25b)^3 = 0.16276b^4$$

$$Q_{max} = \bar{y}' A' = (0.3125b)(0.625b)(b) = 0.1953125b^3$$

Assume bending moment controls:

$$M_{max} = 16 \text{ kN} \cdot \text{m}$$

$$\sigma_{allow} = \frac{M_{max} c}{I}$$

$$6.5(10^6) = \frac{16(10^3)(0.625b)}{0.16276b^4}$$

$$b = 0.21143 \text{ m} = 211 \text{ mm}$$

Ans.

$$h = 1.25b = 264 \text{ mm}$$

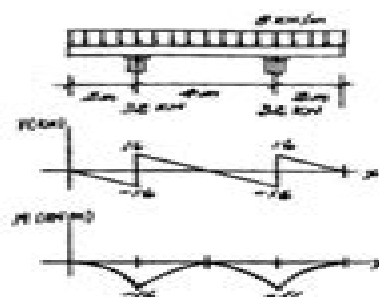
Ans.

Check shear:

$$Q_{max} = 1.846159(10^{-3}) \text{ m}^3$$

$$I = 0.325248(10^{-3}) \text{ m}^4$$

$$\tau_{max} = \frac{V Q_{max}}{I t} = \frac{16(10^3)(1.846159)(10^{-3})}{0.325248(10^{-3})(0.21143)} = 429 \text{ kPa} < 500 \text{ kPa, OK}$$



Ans:

$$b = 211 \text{ mm}, h = 264 \text{ mm}$$

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R Bogdan



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