

55. An H-section steel column is fixed at the base and pinned at the top. The elastic modulus of steel is 2.1×10^5 MPa. Find the maximum concentric vertical load that the column can support without buckling. Assume that the steel column has no imperfection.



$$I_x = 11500 \text{ cm}^4$$

$$I_y = 3880 \text{ cm}^4$$

- a) 2,500 kN
- b) 5,000 kN
- c) 7,500 kN
- d) 8,500 kN

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