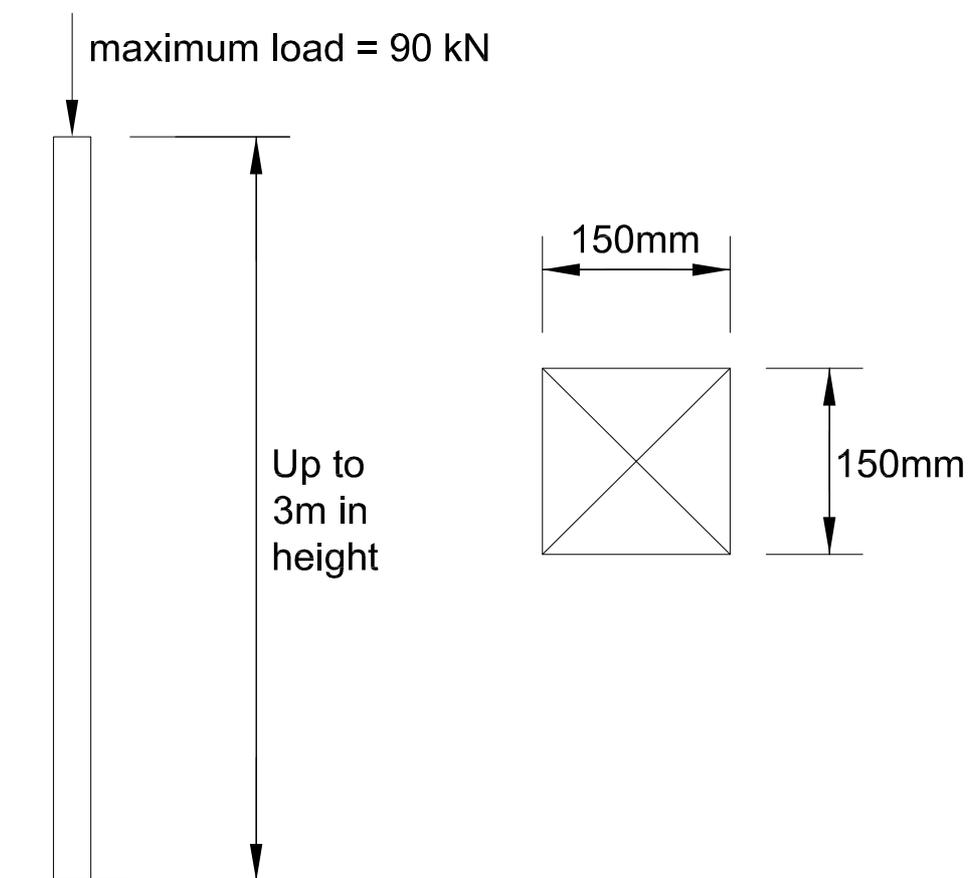


Vertically load capacity of 150mm x 150mm C16 timber post up to 3 metres in height

Slenderness ratio = $3000/43.301 = 69.282 < 180$ OK

Therefore $K_{12} = 0.589$, interpolated from Table 22 BS 5268

Vertical load capacity,
 $= 6.8\text{N/mm}^2 \times 0.589 \times 150\text{mm} \times 150\text{mm}/10^3 = \underline{90\text{kN}}$



Notes

This design is in accordance with BS 5268-2:2002 Structural use of timber - Part 2: Code of practice for permissible stress design, materials and workmanship.

Timber to be covered, this calculation is not to be used for timber which is fully exposed to the elements.