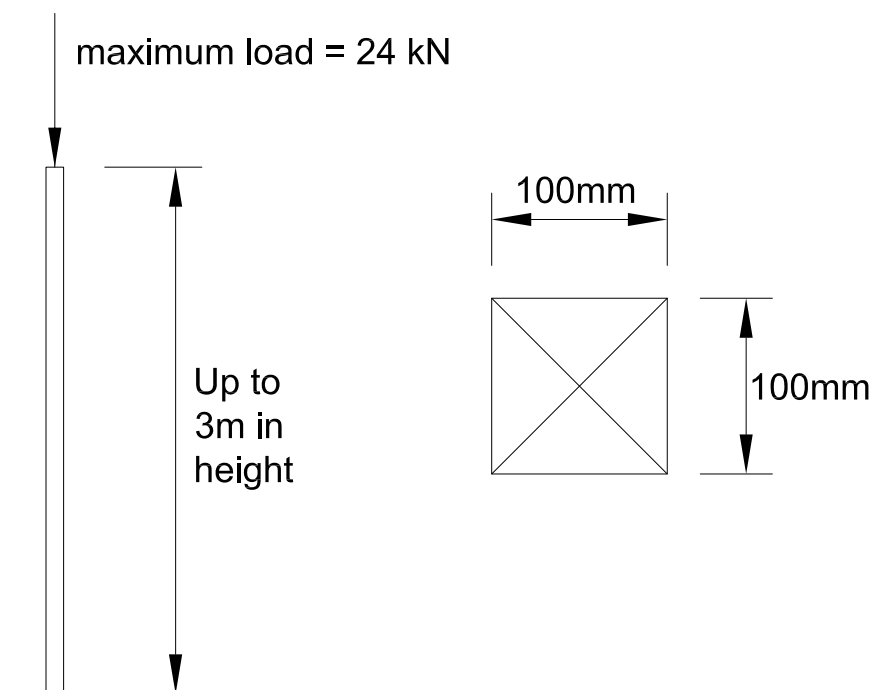# Vertical load capacity of 100mm x 100mm C16 timber post up to 3 metres in height

Slenderness ratio = 3000/28.867 = 103.92 < 180 OK

Therefore K12 = 0.365, interpolated from Table 22 BS 5268

Vertical load capacity,
= 6.8N/mm² x 0.365 x 100mm x 100mm/10³ = <u>24kN</u>

maximum load = 24 kN

Up to 3m in height

100mm

100mm

<u>Notes</u>

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.