

CIVE 3205

Problem Set

CPS - I

Columns

1) Axially loaded columns:

a) An axially loaded column is 6200 mm long and is subjected to a factored load, C_f of 360 kN. It is laterally braced, with pinned connections, only at its ends.

- i) select an economical W section of Grade 300 steel
- ii) select an economical W section of Grade 350 steel
- iii) select an economical HSS of Grade 350 steel.