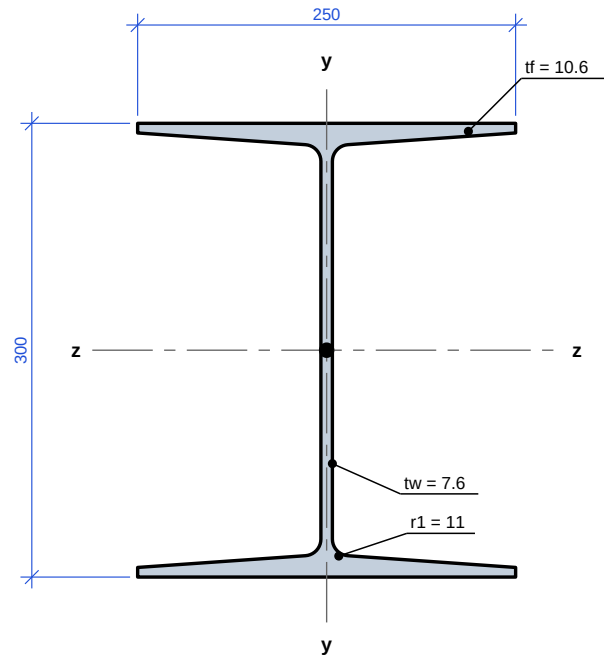
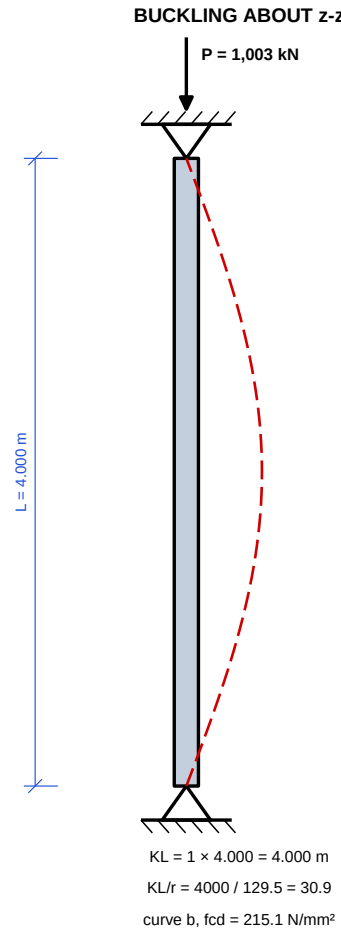
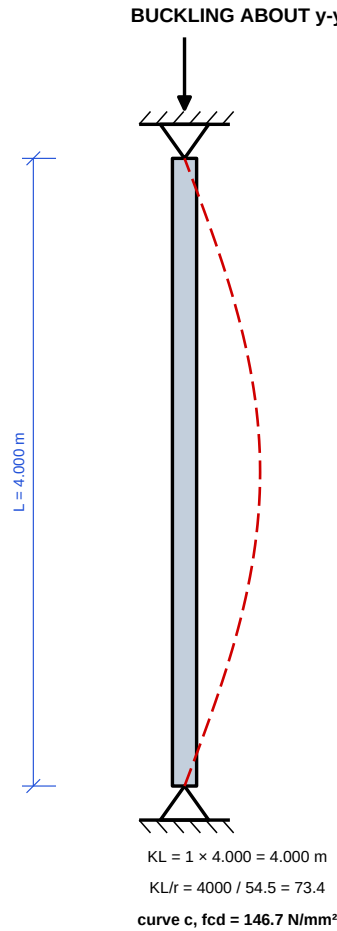
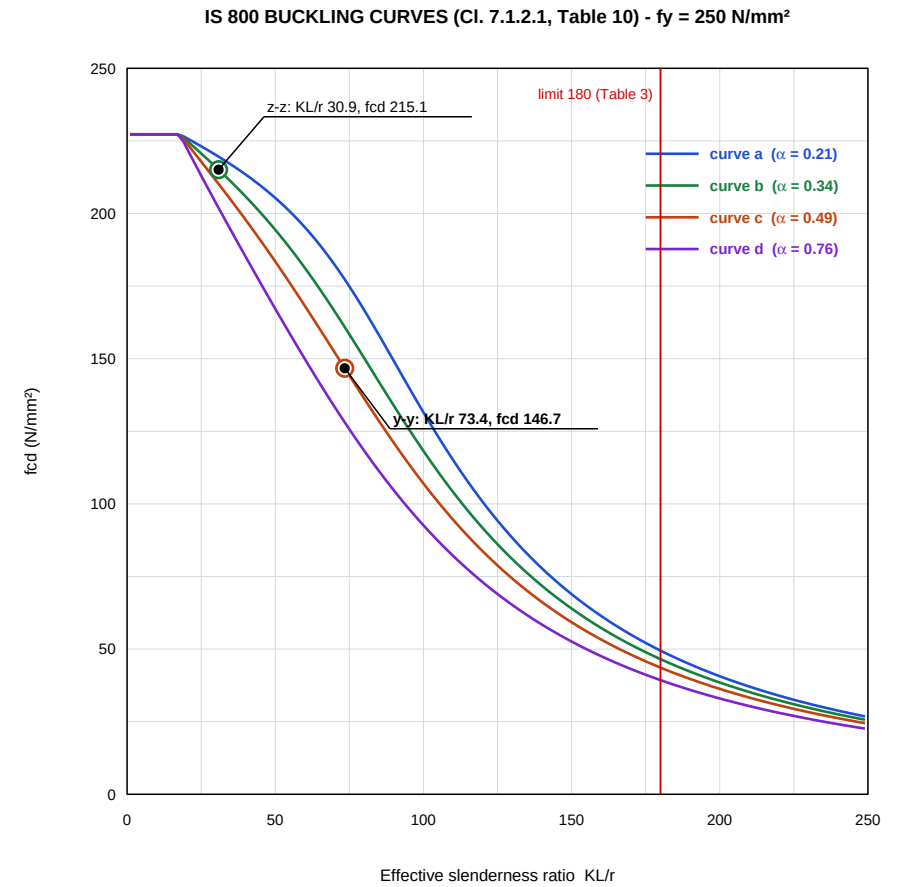




CROSS SECTION
SCALE 1:5



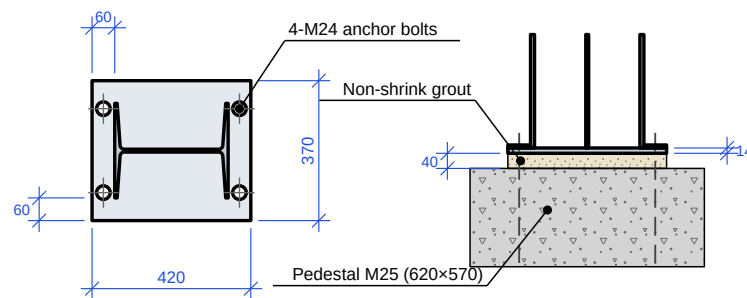
DESIGN SUMMARY (IS 800:2007)

Section	ISHB 300 (58.8)
Mass	58.9 kg/m
Steel	E250 (fy = 250, fu = 410 N/mm²)
Section class	Semi-compact
Design load P	1,003.5 kN
Governing axis	y-y (KL/r = 73.4, buckling class c)
fcd	146.7 N/mm²
Pd	1,101.5 kN
Base plate	420 × 370 × 14 mm

Result: **ALL CHECKS SATISFIED**

NOTES

- All dimensions are in mm unless noted otherwise.
- Structural steel E250 to IS 2062 / IS 4923; bolts to IS 1367, grade 4.6.
- Welding to IS 816 with E41 electrodes; fillet welds 6 mm min.
- Holes drilled, d0 = d + 2 mm (d + 3 mm above M24).
- Erect plumb within H/1000; grout base plates before loading.



BASE PLATE - PLAN
SCALE 1:20

SECTION
SCALE 1:20

Column C1

Member C1 · ISHB 300 (58.8)

Designed: - Checked: -

Date: 31 Oct 2026 Scale: as shown Sheet 1 of 1