STEEL DESIGN

CODE: *BS-EN 1993-1:2005/NA:2008/AC:2009, Eurocode 3: Design of steel structures.*
ANALYSIS TYPE: Member Verification

CODE GROUP:
MEMBER: 1 Simple bar_1 **POINT:** **COORDINATE:** x = 0.50 L = 1.00 m

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LOADS:
Governing Load Case: 2 DL2

MATERIAL:
S275 (S275) fy = 275.0000 MPa

SECTION PARAMETERS: **HEB 220**

h=220 mm	gM0=1.00	gM1=1.00	
b=220 mm	Ay=7656 mm2	Az=2788 mm2	Ax=9100 mm2
tw=10 mm	Iy=80910000 mm4	Iz=28430000 mm4	Ix=770000 mm4
tf=16 mm	Wply=827000 mm3	Wplz=394000 mm3	

INTERNAL FORCES AND CAPACITIES:

N,Ed = -734.0414 kN	My,Ed = 4.6941 kN*m	
Nt,Rd = 2502.5000 kN	My,pl,Rd = 227.4250 kN*m	
	My,c,Rd = 227.4250 kN*m	Vz,Ed = 27.4491 kN
	MN,y,Rd = 181.2287 kN*m	Vz,c,Rd = 442.6545 kN
		Class of section = 1

LATERAL BUCKLING PARAMETERS:

BUCKLING PARAMETERS:

About y axis: About z axis:

VERIFICATION FORMULAS:
Section strength check:
N,Ed/Nt,Rd = 0.29 < 1.00 (6.2.3.(1))
My,Ed/My,c,Rd = 0.02 < 1.00 (6.2.5.(1))
My,Ed/MN,y,Rd = 0.03 < 1.00 (6.2.9.1.(2))
Vz,Ed/Vz,c,Rd = 0.06 < 1.00 (6.2.6.(1))

Section OK !!!