RESULTS - Code - EN 1993-1:2005/AC:2009

Auto

HEA 220

Code 3 Pilares
Bar: 44
Point / Coordinate: 1 / x = 0.00 L = 0.00 m
Load case: 6 Fund (Q) (1+2)*1.35+3*1.50

Perfil inestável

OK

Change

Simplified results | Detailed results

FORCES

N,Ed = 12.64 kN	My,Ed = 3.58 kN*m	Mz,Ed = 0.61 kN*m	Vy,Ed = 0.21 kN
Nc,Rd = 2284.11 kN	My,pl,Rd = 201.82 kN*m	Mz,pl,Rd = 96.06 kN*m	Vy,T,Rd = 1100.56 kN
Nb,Rd = 4.12 kN	My,c,Rd = 201.82 kN*m	Mz,c,Rd = 96.06 kN*m	Vz,Ed = -2.06 kN
	MN,y,Rd = 201.82 kN*m	MN,z,Rd = 96.06 kN*m	Vz,T,Rd = 423.65 kN
			Tt,Ed = -0.00 kN*m
			Classe da secção = 2

Forces

Detailed

LATERAL BUCKLING

XLT = 1.00

BUCKLING y

Ly = 4.75 m Lam_y = 23.39
Lcr,y = 163.86 m Xy = 0.00
Lamy = 1786.99 kyy = 1.00

BUCKLING z

Lz = 4.75 m Lam_z = 1.08
Lcr,z = 4.56 m Xz = 0.49
Lamz = 82.68 kyz = 1.00

Calc. Note

Parameters

Help

CONTROL DA SECÇÃO
(My,Ed/MN,y,Rd)^ 2.00 + (Mz,Ed/MN,z,Rd)^1.00 = 0.01 < 1.00 (6.2.9.1.(6))
Vz,Ed/Vz,T,Rd = 0.00 < 1.00 (6.2.6-7)

MEMBER STABILITY CHECK
Lamy = 1786.99 > Lam,max = 210.00 Lamz = 82.68 < Lam,max = 210.00 INESTÁVEL
N,Ed/(Xy*N,Rk/gM1) + kyy*My,Ed/(XLT*My,Rk/gM1) + kyz*Mz,Ed/(Mz,Rk/gM1) = 3.09 > 1.00 (6.3.3.(4))

RESULTS - Code - EN 1993-1:2005/AC:2009

Auto

HEA 220

Bar: 44
Point / Coordinate: 1 / x = 0.00 L = 0.00 m
Load case: 6 Fund (Q) (1+2)*1.35+3*1.50

Perfil correcto

OK

Change

Simplified results | Detailed results

FORCES

N,Ed = 12.64 kN	My,Ed = 3.58 kN*m	Mz,Ed = 0.61 kN*m	Vy,Ed = 0.21 kN
Nc,Rd = 2284.11 kN	My,pl,Rd = 201.82 kN*m	Mz,pl,Rd = 96.06 kN*m	Vy,T,Rd = 1100.56 kN
Nb,Rd = 314.69 kN	My,c,Rd = 201.82 kN*m	Mz,c,Rd = 96.06 kN*m	Vz,Ed = -2.06 kN
	MN,y,Rd = 201.82 kN*m	MN,z,Rd = 96.06 kN*m	Vz,T,Rd = 423.65 kN
			Tt,Ed = -0.00 kN*m
			Classe da secção = 2

Forces

Detailed

LATERAL BUCKLING

XLT = 1.00

BUCKLING y

Ly = 4.75 m Lam_y = 2.52
Lcr,y = 17.65 m Xy = 0.14
Lamy = 192.45 kyy = 0.66

BUCKLING z

Lz = 4.75 m Lam_z = 0.96
Lcr,z = 4.06 m Xz = 0.56
Lamz = 73.73 kyz = 0.45

Calc. Note

Parameters

Help

CONTROL DA SECÇÃO
(My,Ed/MN,y,Rd)^ 2.00 + (Mz,Ed/MN,z,Rd)^1.00 = 0.01 < 1.00 (6.2.9.1.(6))
Vz,Ed/Vz,T,Rd = 0.00 < 1.00 (6.2.6-7)

MEMBER STABILITY CHECK
Lamy = 192.45 < Lam,max = 210.00 Lamz = 73.73 < Lam,max = 210.00 ESTÁVEL
N,Ed/(Xy*N,Rk/gM1) + kyy*My,Ed/(XLT*My,Rk/gM1) + kyz*Mz,Ed/(Mz,Rk/gM1) = 0.05 < 1.00 (6.3.3.(4))