

C – Joists

with Small Punchout (J)



MATERIAL	
Web (in)	10
Flange (in)	2
Lip (in)	0.625
Yield Strength Fy (KSI)	50
Tensile Strength Fu (KSI)	65
Design Thickness (in)	0.0713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	3.57
Cross Sectional Area: A (in ²)	1.050
Moment of Inertia: Ix (in ⁴)	13.999
Section Modulus: Sx (in ³)	2.800
Radius of Gyration: Rx (in)	3.652
Moment of Inertia: Iy (in ⁴)	0.460
Radius of Gyration: Ry (in)	0.662

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	12.949
Section Modulus: Sxe (in ³)	2.389
Local Buckling Allowable Moment: Mal (in-k)	71.52
Distortional Buckling Allowable Moment: Mad (in-k)	62.15
Allowable strong axis shear away from punch: Vag (lb)	3345
Allowable strong axis shear at punch: Vanet (lb)	3345

(check web crippling)

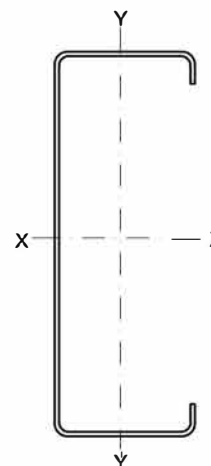
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.779
Torsional Warping Constant: Cw (in ⁶)	9.401
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.120
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.877

PRODUCT ID

1000 J 200-68 (10x2x14ga) (Grade 50)

CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S100-16



See Hermes/Hephaistos Technical Manual
for complete design data