

C – Joists

with Small Punchout (J)



MATERIAL	
Web (in)	8
Flange (in)	2
Lip (in)	0.625
Yield Strength Fy (KSI)	50
Tensile Strength Fu (KSI)	65
Design Thickness (in)	0.0566
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	3.09
Cross Sectional Area: A (in ²)	0.907
Moment of Inertia: Ix (in ⁴)	8.143
Section Modulus: Sx (in ³)	2.036
Radius of Gyration: Rx (in)	2.996
Moment of Inertia: Iy (in ⁴)	0.435
Radius of Gyration: Ry (in)	0.692

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	8.142
Section Modulus: Sxe (in ³)	1.989
Local Buckling Allowable Moment: Mal (in-k)	59.54
Distortional Buckling Allowable Moment: Mad (in-k)	49.13
Allowable strong axis shear away from punch: Vag (lb)	4220
Allowable strong axis shear at punch: Vanet (lb)	3367

(check web crippling)

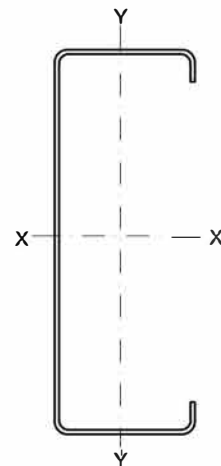
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.537
Torsional Warping Constant: Cw (in ⁶)	5.712
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.248
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.319

PRODUCT ID

800 J 200-68 (8x2x14ga) (Grade 50)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data