C - Joists
with Small Punchout (J)

MATERIAL	
Web (in)	8
Flange (in)	1⅜
Lip (in)	0.375
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)	2.66
Cross Sectional Area: A (in^2)	0.782
Moment of Inertia: Ix (in^4)	6.305
Section Modulus: Sx (in^3)	1.576
Radius of Gyration: Rx (in)	2.839
Moment of Inertia: Iy (in^4)	0.134
Radius of Gyration: Ry (in)	0.414

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	6.290
Section Modulus: Sxe (in^3)	**1.452**
Local Buckling Allowable Moment:Mal (in-k)	43.46
Distortional Buckling Allowable Moment: Mad (in-k)	36.98
Allowable strong axis shear away from punch: Vag (lb)	4220
Allowable strong axis shear at punch: Vanet (lb)	3367

(check web crippling)

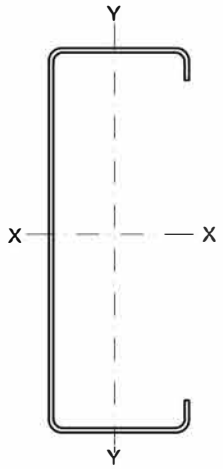
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	1.325
Torsional Warping Constant: Cw (in^6)	1.789
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.661
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.944

PRODUCT ID

800 J 137-68 (8x1⅜x14ga) (Grade 50)

CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S 100-16



See Hermes/Hephaistos Technical Manual for complete design data

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