C-Joists

with Big Stiffened Web Holes

MATERIAL	
Web (in)	8
Flange (in)	2
Lip (in)	0.625
Yield Strength Fy (KSI)	50
Tensile Strength Fu (KSI)	65
Design Thickness (in)	0.0713
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 FOR 20ft JOIST SPAN*			
Hole Spacing (in)	48	32	16
Moment of Inertia-Deflection: Ixe (in^4)	7.74	7.49	7.41
Allowable Design Bending Moment: Md (in-k)	47	45	45
Allowable Shear Force: Va (lb) (solid section)	4220	4220	4220
Check web crippling			
*For other joist spans, see Hermes Technical Manual			

TORSIONAL SECTION PROPERTIES (Solid Section)	
St. Venant Torsional Constant: Jx1000 (in^4)	1.537
Torsional Warping Constant: Cw (in^6)	4.712
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.248
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.319

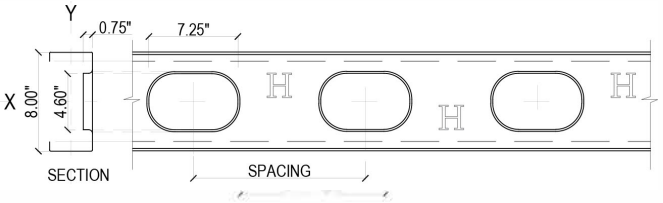
PRODUCT ID

800 H 48 J 200-68 (8x2x14 ga) Holes@48"
800 H 32 J 200-68 (8x2x14 ga) Holes@32"
800 H 16 J 200-68 (8x2x14 ga) Holes@16"

CODES & STANDARDS

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

HOLE SIZE AND SPACING



See Hermes/Hephaistos Technical Manual
for complete design data

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