C-Joists

with Big Stiffened Web Holes

MATERIAL	
Web (in)	12
Flange (in)	2½
Lip (in)	0.625
Yield Strength Fy (KSI)	50
Tensile Strength Fu (KSI)	65
Design Thickness (in)	0.713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	4.30
Cross Sectional Area: A (in^2)	1.263
Moment of Inertia: Ix (in^4)	24.491
Section Modulus: Sx (in^3)	4.082
Radius of Gyration: Rx (in)	4.403
Moment of Inertia: Iy (in^4)	0.836
Radius of Gyration: Ry (in)	0.813

EFFECTIVE SECTION PROPERTIES FOR 20ft JOIST SPAN*			
Hole Spacing (in)	48	32	16
Moment of Inertia-Deflection: Ixe (in^4)	20.82	19.59	17.14
Allowable Design Bending Moment: Md (in-k)	67	63	55
Allowable Shear Force: Va (lb) (solid section)	2770	2770	2770
Check web crippling			
*For other joist spans, see Hermes Technical Manual			

TORSIONAL SECTION PROPERTIES (Solid Section)	
St. Venant Torsional Constant: Jx1000 (in^4)	2.141
Torsional Warping Constant: Cw (in^6)	24.034
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.362
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.680

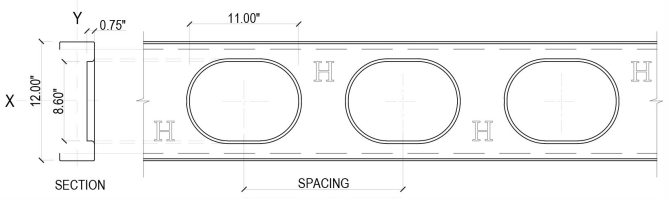
PRODUCT ID

1200 H 48 J 250-68 (12x2½x14ga) Holes@48"
1200 H 32 J 250-68 (12x2½x14ga) Holes@32"
1200 H 16 J 250-68 (12x2½x14ga) 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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