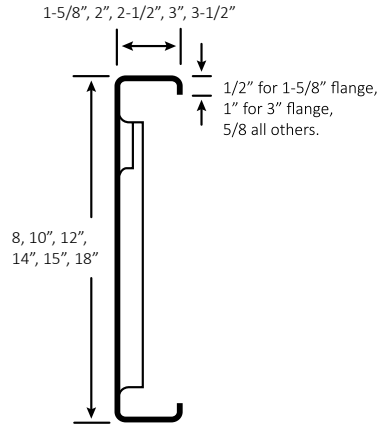
PRODUCT SUBMITTAL SHEET

For more information or questions, please contact:
technical@buysuperstud.com | info@ebmetal.us

800SJ250-97

Product Description: 8” Super Joist 12GA (2-1/2” Flange, 97mil)
Coating: G60 (standard), G90 (special order)
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

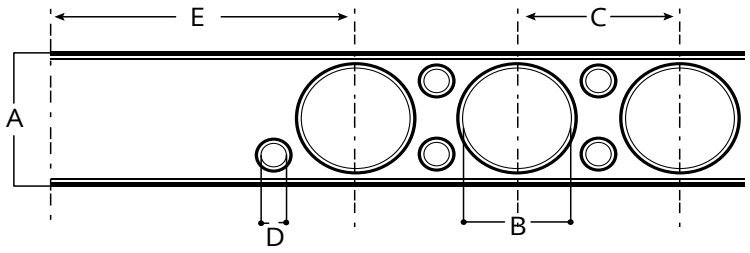
Single Return Flange



GEOMETRIC PROPERTIES			
Web Depth	8 in.	Yield Strength, Fy	50 ksi
Flange Width	2.50 in.	Design Thickness	0.1017 in.
Lip Length	0.625 in.	Min. Steel Thickness	0.966 in.

GROSS PROPERTIES		
Area (in^2)	Total cross-sectional steel area	1.3723
Weight (lb/ft)	Linear weight per foot	4.6658
Ix (in^4)	Moment of inertia about the x-axis	12.7931
Sx (in^3)	Section modulus about the x-axis	3.1983
Rx (in)	Radius of gyration about the x-axis	3.0532
Iy (in^4)	Moment of inertia about the y-axis	1.0108
Ry (in)	Radius of gyration about the y-axis	0.8582
EFFECTIVE PROPERTIES		
Max (in-k)	Maximum allowable bending moment	70.8590
Ixe (in^4)	Effective moment of inertia (x-axis)	11.7390
Sxe (in^4)	Effective section modulus (x-axis)	2.8344
Va_y (k)	Maximum allowable shear force about the y-axis	2570.8
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	4.731
Cw (in^6)	Warping constant	12.183
Xo (in)	Distance from shear center to centroid	1.596
Ro (in)	Polar radius of gyration	3.551
Beta	Torsional Flexural Constant	0.798

TYPICAL JOIST MEMBER SIZING				
A	B	C	D	E
Section Web Depth (in)	Large Hole Diameter (in)	Large Hole Spacing (in o.c.)	Small Hole Diameter (in)	Minimum Distance from End to Center of First Large Hole (in)
8	4.25	9	1	22



CODES AND STANDARDS:
Super Stud/EB Metal US products comply with the applicable provisions of the following:
- International Building Code (IBC): 2006–2024
- AISI S100-16 (2020) w/S2-20
- Sheet Steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized Coating: ASTM A653/A653M

Structural Members:
- ASTM C955; AISI S240
- Installed per ASTM C1007

Additional Standards:
- AISI S201; AISI S202

3rd Party Certification

For LEED Letter requests please submit through:
www.buysuperstud.com or www.ebmetal.us

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