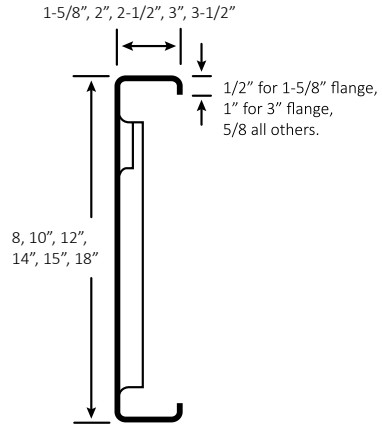
PRODUCT SUBMITTAL SHEET

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

800SJ250-54

Product Description: 8” Super Joist 16GA (2-1/2” Flange, 54mil)
Coating: G60 (standard), G90 (special order)
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

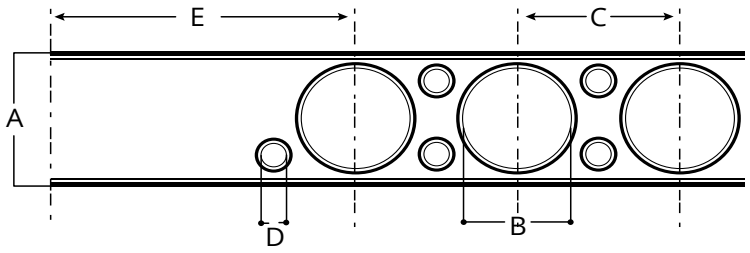
Single Return Flange



GEOMETRIC PROPERTIES			
Web Depth	8 in.	Yield Strength, Fy	50 ksi
Flange Width	2.50 in.	Design Thickness	0.0566 in.
Lip Length	0.625 in.	Min. Steel Thickness	0.0538 in.

GROSS PROPERTIES		
Area (in^2)	Total cross-sectional steel area	0.7827
Weight (lb/ft)	Linear weight per foot	2.6612
Ix (in^4)	Moment of inertia about the x-axis	7.4660
Sx (in^3)	Section modulus about the x-axis	1.8665
Rx (in)	Radius of gyration about the x-axis	3.0884
Iy (in^4)	Moment of inertia about the y-axis	0.6145
Ry (in)	Radius of gyration about the y-axis	0.8861
EFFECTIVE PROPERTIES		
Max (in-k)	Maximum allowable bending moment	31.8745
Ixe (in^4)	Effective moment of inertia (x-axis)	5.9368
Sxe (in^4)	Effective section modulus (x-axis)	1.2750
Va_y (k)	Maximum allowable shear force about the y-axis	948.7
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	0.836
Cw (in^6)	Warping constant	7.568
Xo (in)	Distance from shear center to centroid	1.656
Ro (in)	Polar radius of gyration	3.615
Beta	Torsional Flexural Constant	0.790

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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This product submittal sheet reflects the most current information available and supersedes any and all previous digital or printed publications effective April 2026.