PRODUCT SUBMITTAL SHEET

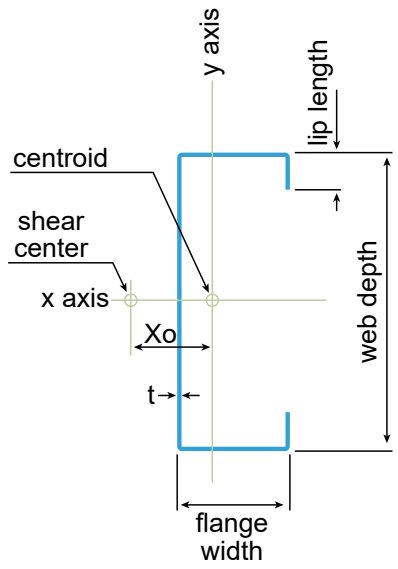
For more information or questions, please contact
the technical department: technical@buysuperstud.com

800S250-54 (50ksi) (Standard Punch)

Product Description: 8” Stud 16GA (2-1/2” Flange, 54 mil)

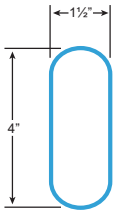
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)



GEOMETRIC PROPERTIES			
Web Depth	8 in.	Yield Strength, Fy	50 ksi
Flange Width	2.5 in.	Design Thickness	0.0566 in.
Lip Length	0.625 in.	Min. Design Thickness	0.0538 in.

GROSS PROPERTIES		
Area (in^2)	Total cross-sectional steel area	0.783
Weight (lb/ft)	Linear weight per foot	2.66
Ix (in^4)	Moment of inertia about the x-axis	7.467
Sx (in^3)	Section modulus about the x-axis	1.867
Rx (in)	Radius of gyration about the x-axis	3.089
Iy (in^4)	Moment of inertia about the y-axis	0.614
Ry (in)	Radius of gyration about the y-axis	0.886
EFFECTIVE PROPERTIES		
Ix (in^3)	Effective moment of inertia (x-axis)	7.399
Sx (in^3)	Effective section modulus (x-axis)	1.490
Ma (in-k)	Allowable bending moment-effective section modulus	44.61
Mad (in-k)	Allowable bending moment-distortional bucking	37.84
Va_g (lb)	Allowable shear force in web	2091
Va_{net} (lb)	Allowable strong axis sheer at punchout	2091
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	0.836
Cw (in^6)	Warping constant	7.850
Xo (in)	Distance from shear center to centroid	-1.661
m (in)	Distance from shear center to mid-plane of web	1.036
Ro (in)	Polar radius of gyration	3.617
Beta	Torsional Flexural Constant	0.789



First punchout is centered 12” from beginning of member; subsequent punchouts are 24” on center (o.c.). Center of last punchout is no less than 12” from end of member.

CODES AND STANDARDS:

Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006–2024
- AISI S100-16 (2020) w/S2-20 (effective properties include cold-work strength increase)
- 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

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