PRODUCT SUBMITTAL SHEET

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

1600S250-68[1] (Standard Punch)

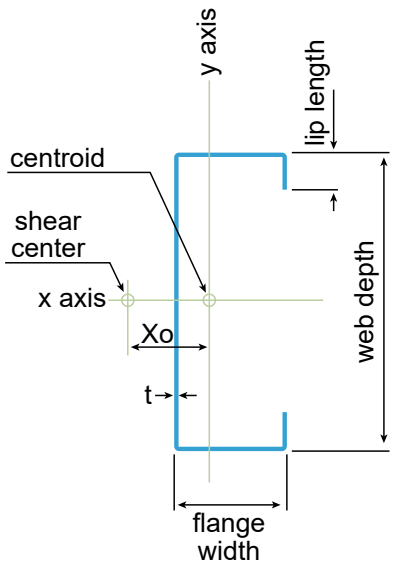
Product Description: 16” Stud 14GA (2-1/2” Flange, 68 mil)

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

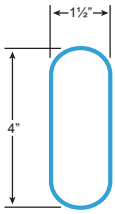
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	16 in.	Yield Strength, Fy	50 ksi
Flange Width	2.5 in.	Design Thickness	0.0713 in.
Lip Length	0.625 in.	Min. Design Thickness	0.0677 in.

**1 Web-height to thickness ration exceeds 200. Web Stiffeners are required at all support and concentrated loads.*



GROSS PROPERTIES		
Area (in²)	Total cross-sectional steel area	1.549
Weight (lb/ft)	Linear weight per foot	5.27
Ix (in⁴)	Moment of inertia about the x-axis	49.832
Sx (in³)	Section modulus about the x-axis	6.229
Rx (in)	Radius of gyration about the x-axis	5.673
Iy (in⁴)	Moment of inertia about the y-axis	0.889
Ry (in)	Radius of gyration about the y-axis	0.758
EFFECTIVE PROPERTIES		
Ix (in³)	Effective moment of inertia (x-axis)	45.619
Sx (in³)	Effective section modulus (x-axis)	4.020
Ma (in-k)	Allowable bending moment-effective section modulus	100.50
Mad (in-k)	Allowable bending moment-distortional bucking	84.94
Va_g (lb)	Allowable shear force in web	2062
Va_{net} (lb)	Allowable strong axis sheer at punchout	1649
TORSIONAL PROPERTIES		
J x 1000 (in⁴)	St. Venant torsional constant	2.624
Cw (in⁶)	Warping constant	46.230
Xo (in)	Distance from shear center to centroid	-1.167
m (in)	Distance from shear center to mid-plane of web	0.778
Ro (in)	Polar radius of gyration	5.841
Beta	Torsional Flexural Constant	0.960



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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