PRODUCT SUBMITTAL SHEET

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

1600S350-97 (Standard Punch)

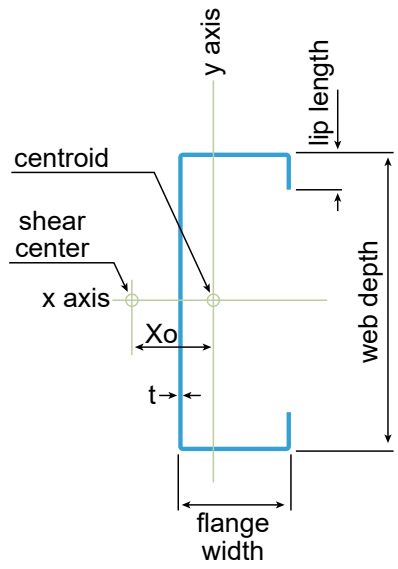
Product Description: 16” Stud 12GA (3-1/2” Flange, 97 mil)

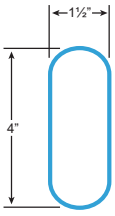
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	16 in.	Yield Strength, Fy	50 ksi
Flange Width	3.5 in.	Design Thickness	0.1017 in.
Lip Length	1.000 in.	Min. Design Thickness	0.0966 in.

GROSS PROPERTIES		
Area (in^2)	Total cross-sectional steel area	2.466
Weight (lb/ft)	Linear weight per foot	8.39
Ix (in^4)	Moment of inertia about the x-axis	86.296
Sx (in^3)	Section modulus about the x-axis	10.787
Rx (in)	Radius of gyration about the x-axis	5.916
Iy (in^4)	Moment of inertia about the y-axis	3.410
Ry (in)	Radius of gyration about the y-axis	1.176
EFFECTIVE PROPERTIES		
Ix (in^3)	Effective moment of inertia (x-axis)	83.748
Sx (in^3)	Effective section modulus (x-axis)	8.285
Ma (in-k)	Allowable bending moment-effective section modulus	248.05
Mad (in-k)	Allowable bending moment-distortional bucking	223.83
Va_g (lb)	Allowable shear force in web	6042
Va_{net} (lb)	Allowable strong axis sheer at punchout	6042
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	8.501
Cw (in^6)	Warping constant	175.895
Xo (in)	Distance from shear center to centroid	-2.022
m (in)	Distance from shear center to mid-plane of web	1.304
Ro (in)	Polar radius of gyration	6.362
Beta	Torsional Flexural Constant	0.899





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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