

PRODUCT SUBMITTAL SHEET

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



1600S350-118 (Standard Punch)

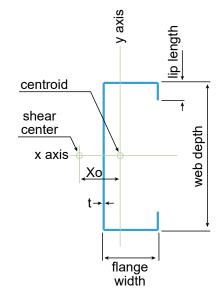
Product Description: 16" Stud 10GA (3-1/2" Flange, 118 mil)

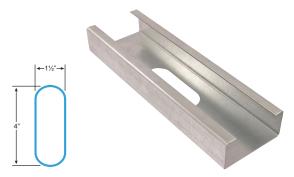
Coating: G60 (standard), G90 (special order)

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	0.1242 in.	
Lip Length	1.000 in.	Min. Steel Thickness	0.1180 in.	

GROSS PROPERTIES				
Area (in²)	Total cross-sectional steel area	2.990		
Weight (lb/ft)	Linear weight per foot	10.17		
Ix (in ⁴)	Moment of inertia about the x-axis	103.924		
Sx (in³)	Section modulus about the x-axis	12.990		
Rx (in)	Radius of gyration about the x-axis	5.895		
ly (in ⁴)	Moment of inertia about the y-axis	4.039		
Ry (in)	Radius of gyration about the y-axis	1.162		
EFFECTIVE PROPERTIES				
Ix (in³)	Effective moment of inertia (x-axis)	102.57		
Sx (in³)	Effective section modulus (x-axis)	11.236		
Ma (in-k)	Allowable bending moment-effective section modulus	336.42		
Mad (in-k)	Allowable bending moment-distortional bucking	296.35		
Va _g (lb)	Allowable shear force in web	11086		
Va _{net} (lb)	Allowable strong axis sheer at punchout	11086		
TORSIONAL PROPERTIES				
J x 1000 (in ⁴)	St. Venant torsional constant	15.376		
Cw (in ⁶)	Warping constant	209.692		
Xo (in)	Distance from shear center to centroid	-1.998		
m (in)	Distance from shear center to mid-plane of web	1.291		
Ro (in)	Polar radius of gyration	6.332		
Beta	Torsional Flexural Constant	0.900		





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