

PRODUCT SUBMITTAL SHEET

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



400S300-68 (Standard Punch)

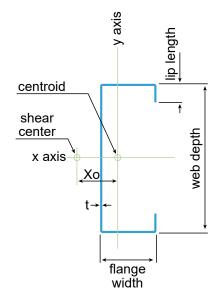
Product Description: 4" Stud 14GA (3" Flange, 68 mil)

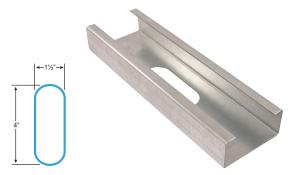
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES				
Web Depth	4 in.	Yield Strength, Fy	50 ksi	
Flange Width	3 in.	Design Thickness	0.0713 in.	
Lip Length	0.625 in.	Min. Steel Thickness	0.0677 in.	

GROSS PROPERTIES				
Area (in²)	Total cross-sectional steel area	0.764		
Weight (lb/ft)	Linear weight per foot	2.60		
lx (in ⁴)	Moment of inertia about the x-axis	2.140		
Sx (in³)	Section modulus about the x-axis	1.070		
Rx (in)	Radius of gyration about the x-axis	1.673		
ly (in⁴)	Moment of inertia about the y-axis	0.933		
Ry (in)	Radius of gyration about the y-axis	1.105		
EFFECTIVE PROPERTIES				
Ix (in³)	Effective moment of inertia (x-axis)	2.099		
Sx (in³)	Effective section modulus (x-axis)	0.822		
Ma (in-k)	Allowable bending moment-effective section modulus	24.62		
Mad (in-k)	Allowable bending moment-distortional bucking	25.13		
Va _g (lb)	Allowable shear force in web	4871		
Va _{net} (lb)	Allowable strong axis sheer at punchout	1356		
TORSIONAL PROPERTIES				
J x 1000 (in ⁴)	St. Venant torsional constant	1.295		
Cw (in ⁶)	Warping constant	3.432		
Xo (in)	Distance from shear center to centroid	-2.574		
m (in)	Distance from shear center to mid-plane of web	1.486		
Ro (in)	Polar radius of gyration	3.263		
Beta	Torsional Flexural Constant	0.378		





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