

PRODUCT SUBMITTAL SHEET

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



400S200-43 (Standard Punch)

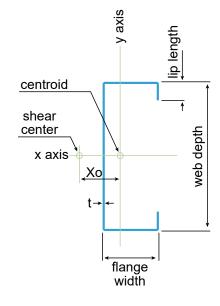
Product Description: 4" Stud 18GA (2" Flange, 43 mil)

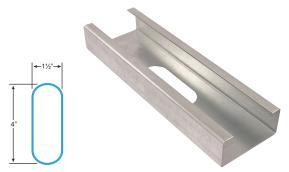
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES				
Web Depth	4 in.	Yield Strength, Fy	33 ksi	
Flange Width	2 in.	Design Thickness	0.0451 in.	
Lip Length	0.625 in.	Min. Steel Thickness	0.0428 in.	

GROSS PROPERTIES				
Area (in²)	Total cross-sectional steel area			
Weight (lb/ft)	Linear weight per foot			
Ix (in ⁴)	Moment of inertia about the x-axis			
Sx (in³)	Section modulus about the x-axis			
Rx (in)	Radius of gyration about the x-axis			
ly (in ⁴)	Moment of inertia about the y-axis	0.235		
Ry (in)	Radius of gyration about the y-axis	0.764		
EFFECTIVE PROPERTIES				
Ix (in³)	Effective moment of inertia (x-axis)	1.048		
Sx (in³)	Effective section modulus (x-axis)	0.491		
Ma (in-k)	Allowable bending moment-effective section modulus	9.71		
Mad (in-k)	Allowable bending moment-distortional bucking	9.41		
Va _g (lb)	Allowable shear force in web	1740		
Va _{net} (Ib)	Allowable strong axis sheer at punchout	810		
TORSIONAL PROPERTIES				
J x 1000 (in ⁴)	St. Venant torsional constant	0.272		
Cw (in ⁶)	Warping constant	0.886		
Xo (in)	Distance from shear center to centroid	-1.676		
m (in)	Distance from shear center to mid-plane of web	1.000		
Ro (in)	Polar radius of gyration			
Beta	Torsional Flexural Constant	0.532		





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