

PRODUCT SUBMITTAL SHEET

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



250S162-43 (Standard Punch)

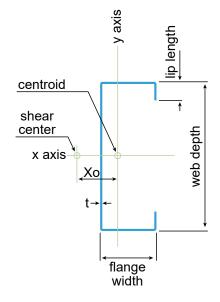
Product Description: 2-1/2" Stud 18GA (1-5/8" Flange, 43mil)

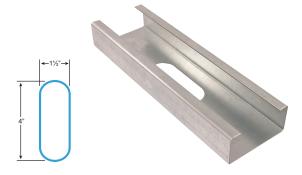
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES				
Web Depth	2.5 in.	Yield Strength, Fy	33 ksi	
Flange Width	1.625 in.	Design Thickness	0.0451 in.	
Lip Length	0.500 in.	Min. Steel Thickness	0.0428 in.	

GROSS PROPERTIES				
Area (in²)	Total cross-sectional steel area	0.289		
Weight (lb/ft)	Linear weight per foot	0.98		
lx (in ⁴)	Moment of inertia about the x-axis	0.302		
Sx (in³)	Section modulus about the x-axis	0.242		
Rx (in)	Radius of gyration about the x-axis	1.022		
ly (in ⁴)	Moment of inertia about the y-axis	0.111		
Ry (in)	Radius of gyration about the y-axis	0.620		
EFFECTIVE PROPERTIES				
Ix (in³)	Effective moment of inertia (x-axis)	0.302		
Sx (in³)	Effective section modulus (x-axis)	0.24		
Ma (in-k)	Allowable bending moment-effective section modulus	5.15		
Mad (in-k)	Allowable bending moment-distortional bucking	5.01		
Va _g (lb)	Allowable shear force in web	1266		
Va _{net} (lb)	Allowable strong axis sheer at punchout	394		
TORSIONAL PROPERTIES				
J x 1000 (in ⁴)	St. Venant torsional constant	0.196		
Cw (in ⁶)	Warping constant	0.184		
Xo (in)	Distance from shear center to centroid	-1.457		
m (in)	Distance from shear center to mid-plane of web	0.852		
Ro (in)	Polar radius of gyration	1.885		
Beta	Torsional Flexural Constant	0.402		





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