

# **PRODUCT SUBMITTAL SHEET**

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



## **550S162-43 (Standard Punch)**

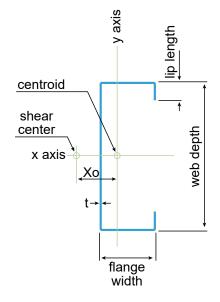
Product Description: 5-1/2" Stud 18GA (1-5/8" Flange, 43 mil)

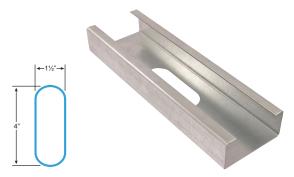
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES				
Web Depth	5.5 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			
Weight (lb/ft)	Linear weight per foot	1.44		
Ix (in <sup>4</sup> )	Moment of inertia about the x-axis			
Sx (in³)	Section modulus about the x-axis	0.685		
Rx (in)	Radius of gyration about the x-axis	2.107		
ly (in <sup>4</sup> )	Moment of inertia about the y-axis	0.145		
Ry (in)	Radius of gyration about the y-axis	0.584		
EFFECTIVE PROPERTIES				
lx (in³)	Effective moment of inertia (x-axis)	1.883		
Sx (in³)	Effective section modulus (x-axis)	0.680		
Ma (in-k)	Allowable bending moment-effective section modulus	14.44		
Mad (in-k)	Allowable bending moment-distortional bucking	12.37		
Va <sub>g</sub> (lb)	Allowable shear force in web	1550		
Va <sub>net</sub> (lb)	Allowable strong axis sheer at punchout	1199		
TORSIONAL PROPERTIES				
J x 1000 (in <sup>4</sup> )	St. Venant torsional constant	0.288		
Cw (in <sup>6</sup> )	Warping constant	0.905		
Xo (in)	Distance from shear center to centroid	-1.103		
m (in)	Distance from shear center to mid-plane of web	0.691		
Ro (in)	Polar radius of gyration			
Beta	Torsional Flexural Constant	0.797		





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