

## 362S250-43 (Standard Punch)

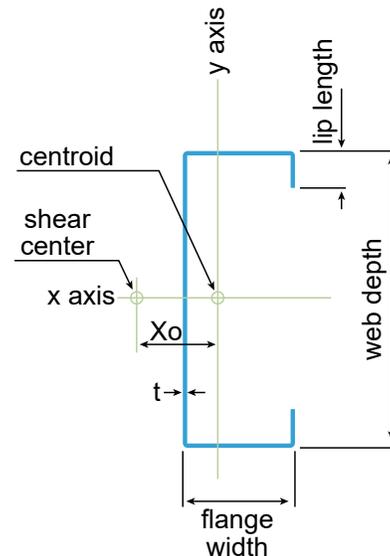
Product Description: 3-5/8" Stud 18GA (2-1/2" Flange, 43 mil)

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

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	3.625 in.	Yield Strength, Fy	33 ksi
Flange Width	2.5 in.	Design Thickness	0.0451 in.
Lip Length	0.625 in.	Min. Design Thickness	0.0428 in.

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.430
Weight (lb/ft)	Linear weight per foot	1.46
I <sub>x</sub> (in <sup>4</sup> )	Moment of inertia about the x-axis	0.980
S <sub>x</sub> (in <sup>3</sup> )	Section modulus about the x-axis	0.541
R <sub>x</sub> (in)	Radius of gyration about the x-axis	1.510
I <sub>y</sub> (in <sup>4</sup> )	Moment of inertia about the y-axis	0.385
R <sub>y</sub> (in)	Radius of gyration about the y-axis	0.946
EFFECTIVE PROPERTIES		
I <sub>x</sub> (in <sup>3</sup> )	Effective moment of inertia (x-axis)	0.980
S <sub>x</sub> (in <sup>3</sup> )	Effective section modulus (x-axis)	0.459
M <sub>a</sub> (in-k)	Allowable bending moment-effective section modulus	9.07
M <sub>ad</sub> (in-k)	Allowable bending moment-distortional buckling	9.06
V <sub>g</sub> (lb)	Allowable shear force in web	1740
V <sub>net</sub> (lb)	Allowable strong axis shear at punchout	676
TORSIONAL PROPERTIES		
J x 1000 (in <sup>4</sup> )	St. Venant torsional constant	0.292
C <sub>w</sub> (in <sup>6</sup> )	Warping constant	1.230
X <sub>o</sub> (in)	Distance from shear center to centroid	-2.199
m (in)	Distance from shear center to mid-plane of web	1.277
R <sub>o</sub> (in)	Polar radius of gyration	2.830
Beta	Torsional Flexural Constant	0.396



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

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