PRODUCT SUBMITTAL SHEET

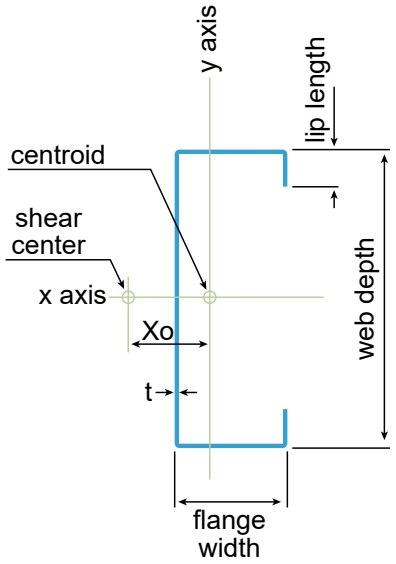
For more information or questions, please contact:
Super Stud: technical@buysuperstud.com
EB Metal US: technical@ebmetal.us

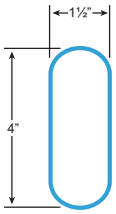
250S162-43 (Standard Punch)

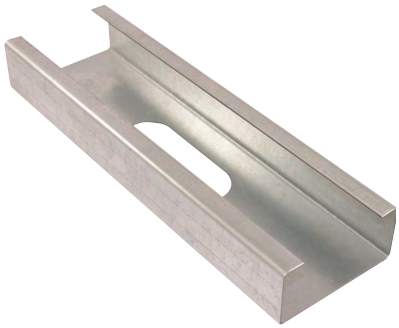
Product Description: 2-1/2" Stud 18GA (1-5/8" Flange, 43mil)
Coating: G60 (standard), G90 (Available)
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

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 (in^2)	Total cross-sectional steel area	0.289
Weight (lb/ft)	Linear weight per foot	0.98
Ix (in^4)	Moment of inertia about the x-axis	0.302
Sx (in^3)	Section modulus about the x-axis	0.242
Rx (in)	Radius of gyration about the x-axis	1.022
Iy (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 (in^3)	Effective moment of inertia (x-axis)	0.302
Sx (in^3)	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 & Standards:

- **Structural Members**
  - ASTM C955
  - AISI S240
  - Installed per ASTM C1007
- **Material Standards**
  - ASTM A1003/A1003M
  - ASTM A653/A653M
- **Design Standards**
  - AISI S100-16 (2020) w/S2-20
- **Building Codes**
  - International Building Code (IBC) 2006–2024

- **Sustainability & Compliance:**
  - SFIA Quality Certified Manufacturing
  - Industry-Wide EPD Participant
  - HPD Documentation Available Upon Request
  - LEED Documentation Available Upon Request
  - Buy America / Build America (BABA) Documentation Available Upon Request
  - Manufactured in USA

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