PRODUCT SUBMITTAL SHEET

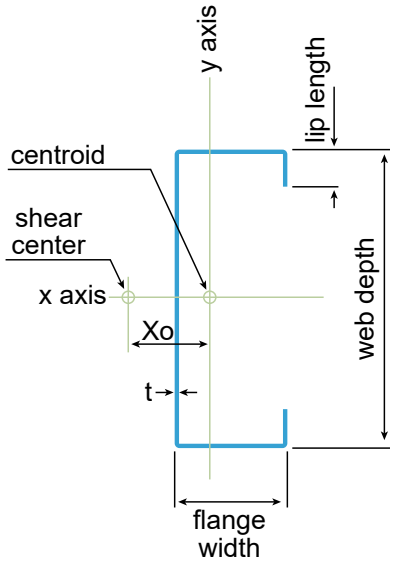
For more information or questions, please contact:
Super Stud: technical@buysuperstud.com
EB Metal US: technical@ebmetal.us

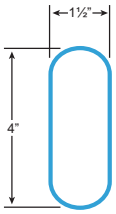
1600S250-118 (Standard Punch)

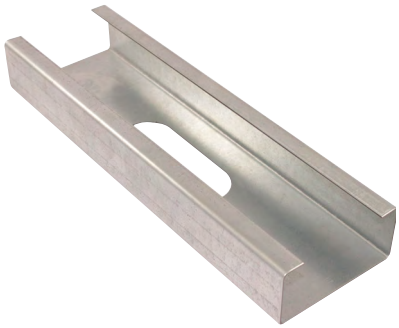
Product Description: 16” Stud 10GA (2-1/2” Flange, 118 mil)
Coating: G60 (standard), G90 (Available)
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	16 in.	Yield Strength, Fy	50 ksi
Flange Width	2.500 in.	Design Thickness	0.1242 in.
Lip Length	0.625 in.	Min. Steel Thickness	0.1180 in.

GROSS PROPERTIES		
Area (in^2)	Total cross-sectional steel area	2.649
Weight (lb/ft)	Linear weight per foot	9.01
Ix (in^4)	Moment of inertia about the x-axis	83.459
Sx (in^3)	Section modulus about the x-axis	10.432
Rx (in)	Radius of gyration about the x-axis	5.613
Iy (in^4)	Moment of inertia about the y-axis	1.390
Ry (in)	Radius of gyration about the y-axis	0.724
EFFECTIVE PROPERTIES		
Ix (in^3)	Effective moment of inertia (x-axis)	81.961
Sx (in^3)	Effective section modulus (x-axis)	9.167
Ma (in-k)	Allowable bending moment-effective section modulus	274.47
Mad (in-k)	Allowable bending moment-distortional bucking	231.24
Va_g (lb)	Allowable shear force in web	11086
Va_{net} (lb)	Allowable strong axis sheer at punchout	11086
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	13.620
Cw (in^6)	Warping constant	74.524
Xo (in)	Distance from shear center to centroid	-1.116
m (in)	Distance from shear center to mid-plane of web	0.750
Ro (in)	Polar radius of gyration	5.769
Beta	Torsional Flexural Constant	0.963







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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