PRODUCT SUBMITTAL SHEET

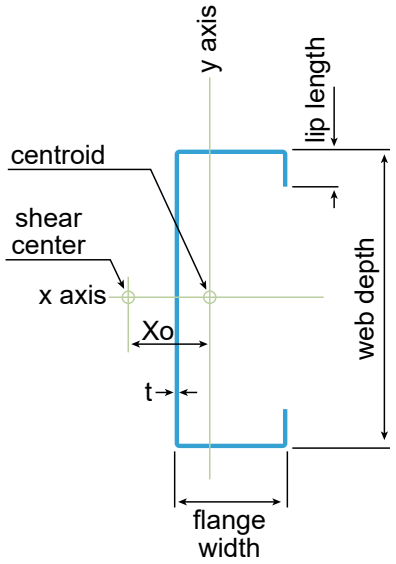
For more information or questions, please contact:
Super Stud: technical@buysuperstud.com
EB Metal US: technical@ebmetal.us

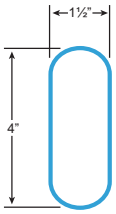
1000S162-118 (Standard Punch)

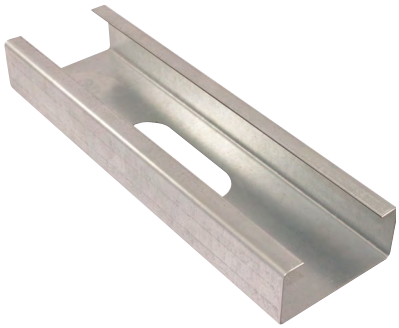
Product Description: 10” Stud 10GA (1-5/8” Flange, 118 mil)
Coating: G60 (standard), G90 (Available)
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	10 in.	Yield Strength, Fy	50 ksi
Flange Width	1.625 in.	Design Thickness	0.1242 in.
Lip Length	0.500 in.	Min. Steel Thickness	0.1180 in.

GROSS PROPERTIES		
Area (in²)	Total cross-sectional steel area	1.655
Weight (lb/ft)	Linear weight per foot	5.63
Ix (in⁴)	Moment of inertia about the x-axis	20.177
Sx (in³)	Section modulus about the x-axis	4.035
Rx (in)	Radius of gyration about the x-axis	3.491
Iy (in⁴)	Moment of inertia about the y-axis	0.364
Ry (in)	Radius of gyration about the y-axis	0.469
EFFECTIVE PROPERTIES		
Ix (in³)	Effective moment of inertia (x-axis)	20.177
Sx (in³)	Effective section modulus (x-axis)	4.028
Ma (in-k)	Allowable bending moment-effective section modulus	130.76
Mad (in-k)	Allowable bending moment-distortional bucking	120.56
Va_g (lb)	Allowable shear force in web	16239
Va_{net} (lb)	Allowable strong axis sheer at punchout	9539
TORSIONAL PROPERTIES		
J x 1000 (in⁴)	St. Venant torsional constant	8.511
Cw (in⁶)	Warping constant	7.924
Xo (in)	Distance from shear center to centroid	-0.746
m (in)	Distance from shear center to mid-plane of web	0.502
Ro (in)	Polar radius of gyration	3.601
Beta	Torsional Flexural Constant	0.957







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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