PRODUCT SUBMITTAL SHEET

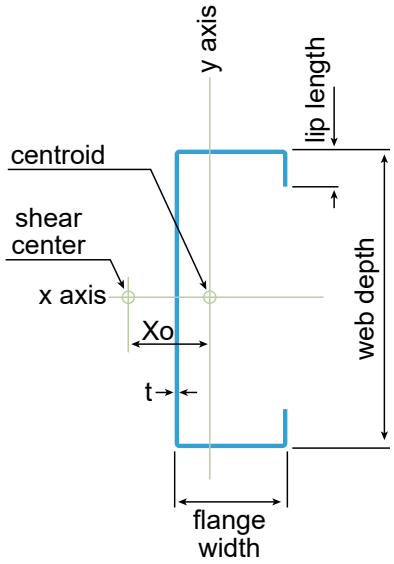
For more information or questions, please contact:
Super Stud: technical@buysuperstud.com
EB Metal US: technical@ebmetal.us

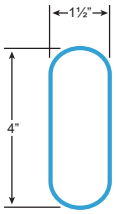
1000S250-97 (Standard Punch)

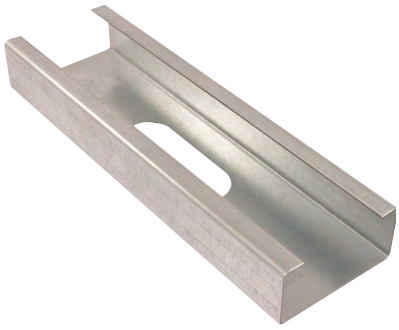
Product Description: 10” Stud 12GA (2-1/2” Flange, 97 mil)
Coating: G60 (standard), G90 (Available)
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	10 in.	Yield Strength, Fy	50 ksi
Flange Width	2.500 in.	Design Thickness	0.1017 in.
Lip Length	0.625 in.	Min. Steel Thickness	0.0966 in.

GROSS PROPERTIES		
Area (in^2)	Total cross-sectional steel area	1.576
Weight (lb/ft)	Linear weight per foot	5.36
Ix (in^4)	Moment of inertia about the x-axis	21.834
Sx (in^3)	Section modulus about the x-axis	4.367
Rx (in)	Radius of gyration about the x-axis	3.722
Iy (in^4)	Moment of inertia about the y-axis	1.073
Ry (in)	Radius of gyration about the y-axis	0.825
EFFECTIVE PROPERTIES		
Ix (in^3)	Effective moment of inertia (x-axis)	21.831
Sx (in^3)	Effective section modulus (x-axis)	4.202
Ma (in-k)	Allowable bending moment-effective section modulus	125.80
Mad (in-k)	Allowable bending moment-distortional bucking	107.14
Va_g (lb)	Allowable shear force in web	9862
Va_{net} (lb)	Allowable strong axis sheer at punchout	7175
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	5.433
Cw (in^6)	Warping constant	21.632
Xo (in)	Distance from shear center to centroid	-1.454
m (in)	Distance from shear center to mid-plane of web	0.932
Ro (in)	Polar radius of gyration	4.080
Beta	Torsional Flexural Constant	0.873







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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