PRODUCT SUBMITTAL SHEET

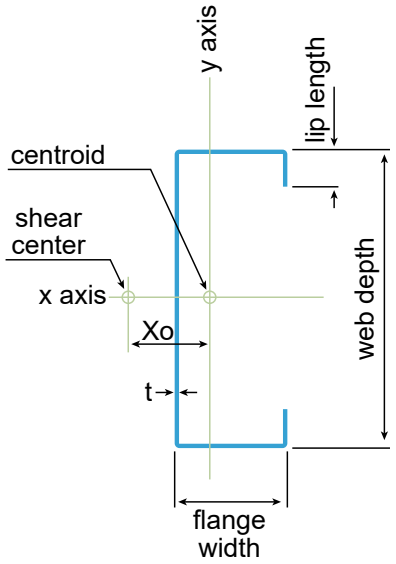
For more information or questions, please contact:
Super Stud: technical@buysuperstud.com
EB Metal US: technical@ebmetal.us

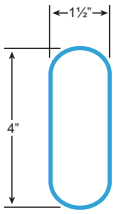
1600S250-97 (Standard Punch)

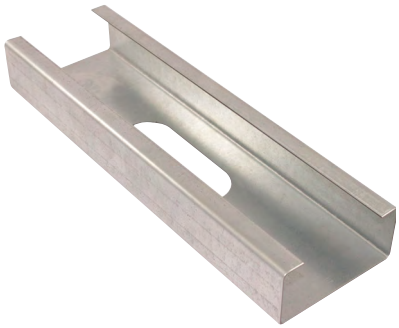
Product Description: 16” Stud 12GA (2-1/2” Flange, 97 mil)
Coating: G60 (standard), G90 (Available)
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	16 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	2.186
Weight (lb/ft)	Linear weight per foot	7.44
Ix (in^4)	Moment of inertia about the x-axis	69.503
Sx (in^3)	Section modulus about the x-axis	8.688
Rx (in)	Radius of gyration about the x-axis	5.639
Iy (in^4)	Moment of inertia about the y-axis	1.193
Ry (in)	Radius of gyration about the y-axis	0.739
EFFECTIVE PROPERTIES		
Ix (in^3)	Effective moment of inertia (x-axis)	66.649
Sx (in^3)	Effective section modulus (x-axis)	6.888
Ma (in-k)	Allowable bending moment-effective section modulus	206.22
Mad (in-k)	Allowable bending moment-distortional bucking	172.62
Va_g (lb)	Allowable shear force in web	6042
Va_{net} (lb)	Allowable strong axis sheer at punchout	6042
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	7.536
Cw (in^6)	Warping constant	63.082
Xo (in)	Distance from shear center to centroid	-1.138
m (in)	Distance from shear center to mid-plane of web	0.762
Ro (in)	Polar radius of gyration	5.800
Beta	Torsional Flexural Constant	0.962







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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