PRODUCT SUBMITTAL SHEET

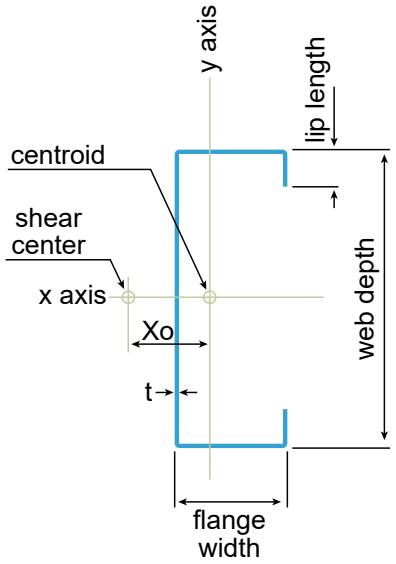
For more information or questions, please contact:
Super Stud: technical@buysuperstud.com
EB Metal US: technical@ebmetal.us

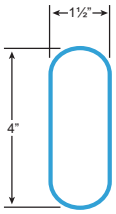
550S162-97 (Standard Punch)

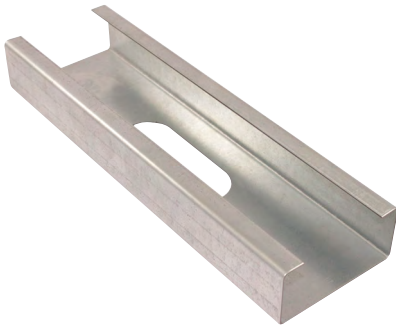
Product Description: 5-1/2" Stud 12GA (1-5/8" Flange, 97 mil)
Coating: G60 (standard), G90 (Available)
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	5.5 in.	Yield Strength, Fy	50 ksi
Flange Width	1.625 in.	Design Thickness	0.1017 in.
Lip Length	0.500 in.	Min. Steel Thickness	0.0966 in.

GROSS PROPERTIES		
Area (in^2)	Total cross-sectional steel area	0.915
Weight (lb/ft)	Linear weight per foot	3.11
Ix (in^4)	Moment of inertia about the x-axis	3.887
Sx (in^3)	Section modulus about the x-axis	1.414
Rx (in)	Radius of gyration about the x-axis	2.062
Iy (in^4)	Moment of inertia about the y-axis	0.276
Ry (in)	Radius of gyration about the y-axis	0.550
EFFECTIVE PROPERTIES		
Ix (in^3)	Effective moment of inertia (x-axis)	3.889
Sx (in^3)	Effective section modulus (x-axis)	1.404
Ma (in-k)	Allowable bending moment-effective section modulus	49.79
Mad (in-k)	Allowable bending moment-distortional bucking	48.69
Va_g (lb)	Allowable shear force in web	9518
Va_{net} (lb)	Allowable strong axis sheer at punchout	3026
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	3.154
Cw (in^6)	Warping constant	1.775
Xo (in)	Distance from shear center to centroid	-1.037
m (in)	Distance from shear center to mid-plane of web	0.656
Ro (in)	Polar radius of gyration	2.372
Beta	Torsional Flexural Constant	0.809







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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