PRODUCT SUBMITTAL SHEET

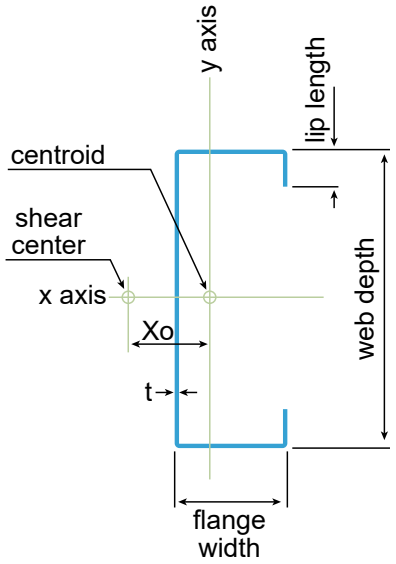
For more information or questions, please contact:
Super Stud: technical@buysuperstud.com
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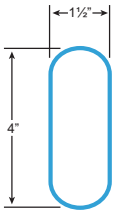
1000S250-54 (Standard Punch)

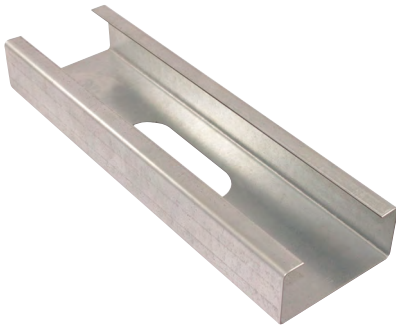
Product Description: 10” Stud 16GA (2-1/2” Flange, 54 mil)
Coating: G60 (standard), G90 (Available)
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	10 in.	Yield Strength, Fy	50 ksi
Flange Width	2.500 in.	Design Thickness	0.0566 in.
Lip Length	0.625 in.	Min. Steel Thickness	0.0538 in.

GROSS PROPERTIES		
Area (in²)	Total cross-sectional steel area	0.896
Weight (lb/ft)	Linear weight per foot	3.05
Ix (in⁴)	Moment of inertia about the x-axis	12.681
Sx (in³)	Section modulus about the x-axis	5.536
Rx (in)	Radius of gyration about the x-axis	3.762
Iy (in⁴)	Moment of inertia about the y-axis	0.653
Ry (in)	Radius of gyration about the y-axis	0.854
EFFECTIVE PROPERTIES		
Ix (in³)	Effective moment of inertia (x-axis)	12.678
Sx (in³)	Effective section modulus (x-axis)	1.822
Ma (in-k)	Allowable bending moment-effective section modulus	54.55
Mad (in-k)	Allowable bending moment-distortional bucking	47.66
Va_g (lb)	Allowable shear force in web	1660
Va_{net} (lb)	Allowable strong axis sheer at punchout	1660
TORSIONAL PROPERTIES		
J x 1000 (in⁴)	St. Venant torsional constant	0.957
Cw (in⁶)	Warping constant	12.922
Xo (in)	Distance from shear center to centroid	-1.505
m (in)	Distance from shear center to mid-plane of web	0.958
Ro (in)	Polar radius of gyration	4.141
Beta	Torsional Flexural Constant	0.868







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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