PRODUCT SUBMITTAL SHEET

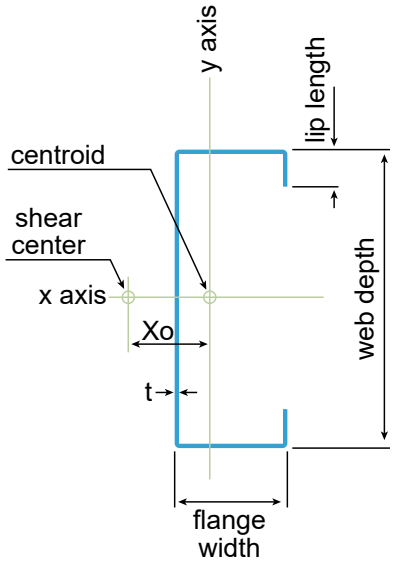
For more information or questions, please contact:
Super Stud: technical@buysuperstud.com
EB Metal US: technical@ebmetal.us

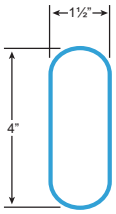
1000S250-68 (Standard Punch)

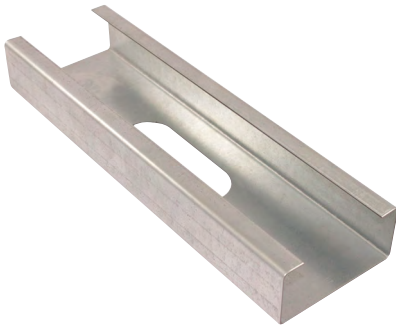
Product Description: 10” Stud 14GA (2-1/2” Flange, 68 mil)
Coating: G60 (standard), G90 (Available)
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	10 in.	Yield Strength, Fy	50 ksi
Flange Width	2.500 in.	Design Thickness	0.0713 in.
Lip Length	0.625 in.	Min. Steel Thickness	0.0677 in.

GROSS PROPERTIES		
Area (in²)	Total cross-sectional steel area	1.121
Weight (lb/ft)	Linear weight per foot	3.81
Ix (in⁴)	Moment of inertia about the x-axis	15.756
Sx (in³)	Section modulus about the x-axis	3.151
Rx (in)	Radius of gyration about the x-axis	3.749
Iy (in⁴)	Moment of inertia about the y-axis	0.799
Ry (in)	Radius of gyration about the y-axis	0.844
EFFECTIVE PROPERTIES		
Ix (in³)	Effective moment of inertia (x-axis)	15.753
Sx (in³)	Effective section modulus (x-axis)	2.736
Ma (in-k)	Allowable bending moment-effective section modulus	81.93
Mad (in-k)	Allowable bending moment-distortional bucking	65.86
Va_g (lb)	Allowable shear force in web	3345
Va_{net} (lb)	Allowable strong axis sheer at punchout	3345
TORSIONAL PROPERTIES		
J x 1000 (in⁴)	St. Venant torsional constant	1.899
Cw (in⁶)	Warping constant	15.909
Xo (in)	Distance from shear center to centroid	-1.488
m (in)	Distance from shear center to mid-plane of web	0.950
Ro (in)	Polar radius of gyration	4.121
Beta	Torsional Flexural Constant	0.870







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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