PRODUCT SUBMITTAL SHEET

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

250S162-33 (Standard Punch)

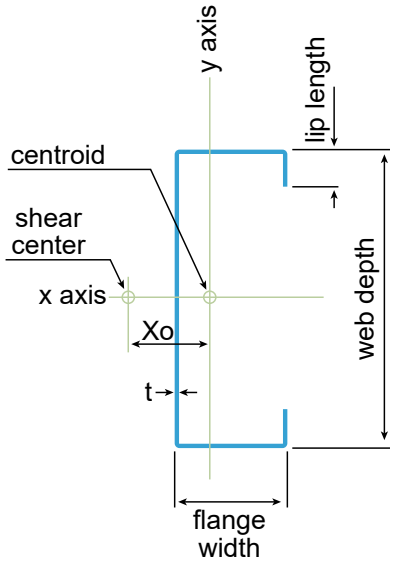
Product Description: 2-1/2" Stud STR 20GA (1-5/8" Flange, 33mil)

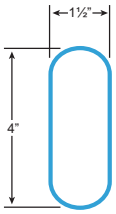
Coating: G60 (standard), G90 (Available)

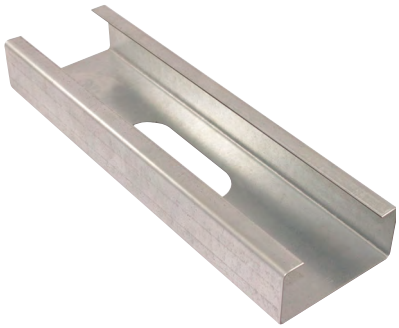
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	2.5 in.	Yield Strength, Fy	33 ksi
Flange Width	1.625 in.	Design Thickness	0.0346 in.
Lip Length	0.500 in.	Min. Steel Thickness	0.0329 in.

GROSS PROPERTIES		
Area (in^2)	Total cross-sectional steel area	0.223
Weight (lb/ft)	Linear weight per foot	0.76
Ix (in^4)	Moment of inertia about the x-axis	0.235
Sx (in^3)	Section modulus about the x-axis	0.188
Rx (in)	Radius of gyration about the x-axis	1.027
Iy (in^4)	Moment of inertia about the y-axis	0.087
Ry (in)	Radius of gyration about the y-axis	0.624
EFFECTIVE PROPERTIES		
Ix (in^3)	Effective moment of inertia (x-axis)	0.235
Sx (in^3)	Effective section modulus (x-axis)	0.179
Ma (in-k)	Allowable bending moment-effective section modulus	3.54
Mad (in-k)	Allowable bending moment-distortional bucking	3.41
Va_g (lb)	Allowable shear force in web	975
Va_{net} (lb)	Allowable strong axis sheer at punchout	399
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	0.089
Cw (in^6)	Warping constant	0.146
Xo (in)	Distance from shear center to centroid	-1.470
m (in)	Distance from shear center to mid-plane of web	0.859
Ro (in)	Polar radius of gyration	1.898
Beta	Torsional Flexural Constant	0.401







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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