PRODUCT SUBMITTAL SHEET

For more information or questions, please contact:
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250S125-33 (Standard Punch)

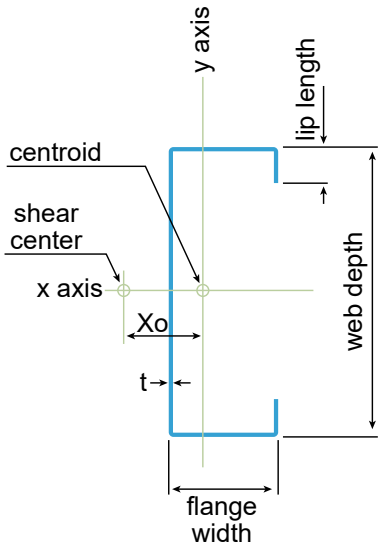
Product Description: 2-1/2" Stud STR 20GA (1-1/4" Flange, 33mil)

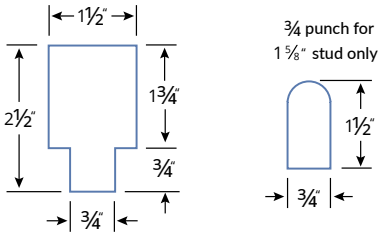
Coating: G60 (standard), G90 (Available)

Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	2.5 in.	Yield Strength, Fy	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0346 in.
Lip Length	0.188 in.	Min. Steel Thickness	0.0329 in.

GROSS PROPERTIES		
Area (in²)	Total cross-sectional steel area	0.176
Weight (lb/ft)	Linear weight per foot	0.60
Ix (in⁴)	Moment of inertia about the x-axis	0.178
Sx (in³)	Section modulus about the x-axis	0.142
Rx (in)	Radius of gyration about the x-axis	1.007
Iy (in⁴)	Moment of inertia about the y-axis	0.033
Ry (in)	Radius of gyration about the y-axis	0.431
EFFECTIVE PROPERTIES		
Ix (in³)	Effective moment of inertia (x-axis)	0.175
Sx (in³)	Effective section modulus (x-axis)	0.124
Ma (in-k)	Allowable bending moment-effective section modulus	2.45
Mad (in-k)	Allowable bending moment-distortional bucking	2.11
Va_g (lb)	Allowable shear force in web	975
Va_{net} (lb)	Allowable strong axis sheer at punchout	399
TORSIONAL PROPERTIES		
J x 1000 (in⁴)	St. Venant torsional constant	0.070
Cw (in⁶)	Warping constant	0.040
Xo (in)	Distance from shear center to centroid	-0.886
m (in)	Distance from shear center to mid-plane of web	0.532
Ro (in)	Polar radius of gyration	1.409
Beta	Torsional Flexural Constant	0.604





Non-structural punchout 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:

- **Nonstructural Members**
  - AISI S220
  - ASTM C645
  - ASTM C754
- **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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