PRODUCT SUBMITTAL SHEET

For more information or questions, please contact:
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350S162-33 (Standard Punch)

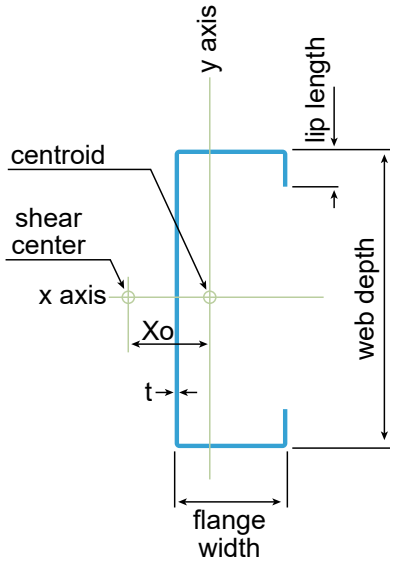
Product Description: 3-1/2" Stud STR 20GA (1-5/8" Flange, 33 mil)

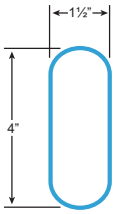
Coating: G60 (standard), G90 (Available)

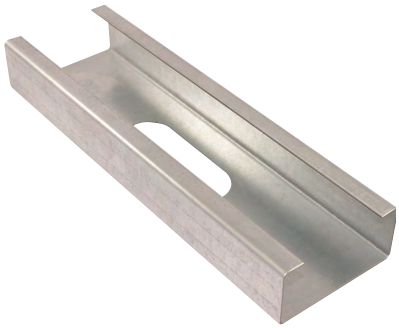
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	3.5 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	0.258
Weight (lb/ft)	Linear weight per foot	0.88
Ix (in^4)	Moment of inertia about the x-axis	0.508
Sx (in^3)	Section modulus about the x-axis	0.291
Rx (in)	Radius of gyration about the x-axis	1.404
Iy (in^4)	Moment of inertia about the y-axis	0.098
Ry (in)	Radius of gyration about the y-axis	0.617
EFFECTIVE PROPERTIES		
Ix (in^3)	Effective moment of inertia (x-axis)	0.508
Sx (in^3)	Effective section modulus (x-axis)	0.264
Ma (in-k)	Allowable bending moment-effective section modulus	5.22
Mad (in-k)	Allowable bending moment-distortional bucking	4.99
Va_g (lb)	Allowable shear force in web	1024
Va_{net} (lb)	Allowable strong axis sheer at punchout	487
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	0.103
Cw (in^6)	Warping constant	0.277
Xo (in)	Distance from shear center to centroid	-1.324
m (in)	Distance from shear center to mid-plane of web	0.796
Ro (in)	Polar radius of gyration	2.026
Beta	Torsional Flexural Constant	0.573







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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