PRODUCT SUBMITTAL SHEET

For more information or questions, please contact:
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550S162-54 (Standard Punch)

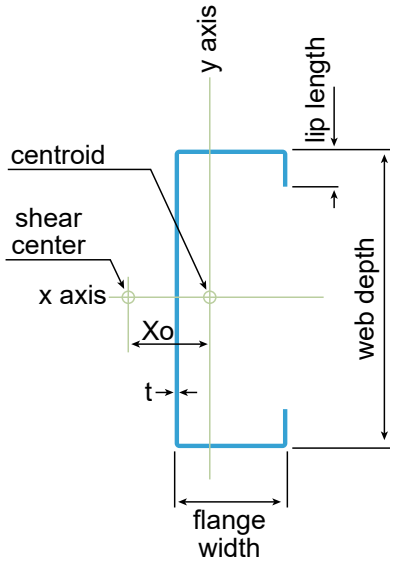
Product Description: 5-1/2" Stud 16GA (1-5/8" Flange, 54 mil)

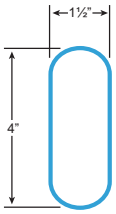
Coating: G60 (standard), G90 (Available)

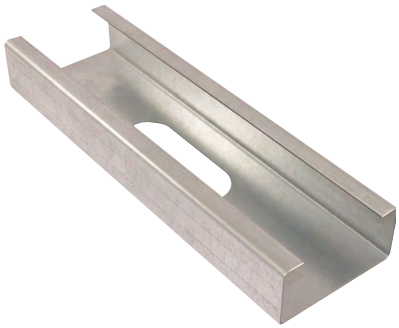
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	5.5 in.	Yield Strength, Fy	50 ksi
Flange Width	1.625 in.	Design Thickness	0.0566 in.
Lip Length	0.500 in.	Min. Steel Thickness	0.0538 in.

GROSS PROPERTIES		
Area (in^2)	Total cross-sectional steel area	0.528
Weight (lb/ft)	Linear weight per foot	1.80
Ix (in^4)	Moment of inertia about the x-axis	2.325
Sx (in^3)	Section modulus about the x-axis	0.845
Rx (in)	Radius of gyration about the x-axis	2.098
Iy (in^4)	Moment of inertia about the y-axis	0.176
Ry (in)	Radius of gyration about the y-axis	0.577
EFFECTIVE PROPERTIES		
Ix (in^3)	Effective moment of inertia (x-axis)	2.325
Sx (in^3)	Effective section modulus (x-axis)	0.815
Ma (in-k)	Allowable bending moment-effective section modulus	24.41
Mad (in-k)	Allowable bending moment-distortional bucking	20.87
Va_g (lb)	Allowable shear force in web	3093
Va_{net} (lb)	Allowable strong axis sheer at punchout	1881
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	0.564
Cw (in^6)	Warping constant	1.105
Xo (in)	Distance from shear center to centroid	-1.090
m (in)	Distance from shear center to mid-plane of web	0.684
Ro (in)	Polar radius of gyration	2.434
Beta	Torsional Flexural Constant	0.800







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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