PRODUCT SUBMITTAL SHEET

For more information or questions, please contact:
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1200S250-54[1] (Standard Punch)

Product Description: 12” Stud 16GA (2-1/2” Flange, 54 mil)

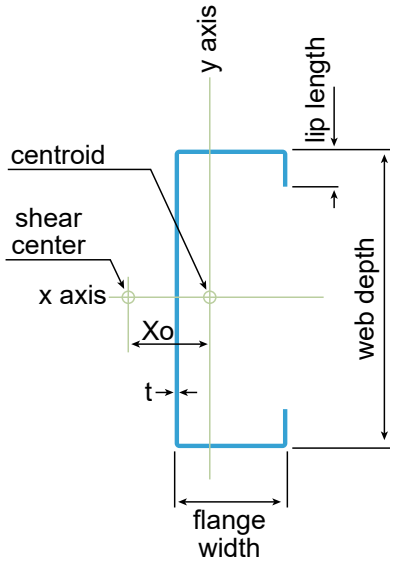
Coating: G60 (standard), G90 (Available)

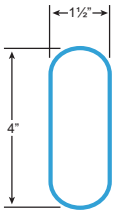
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

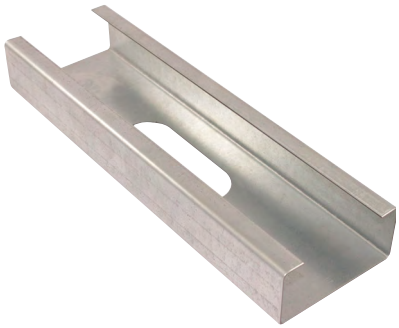
GEOMETRIC PROPERTIES			
Web Depth	12 in.	Yield Strength, Fy	50 ksi
Flange Width	2.500 in.	Design Thickness	0.0566 in.
Lip Length	0.625 in.	Min. Steel Thickness	0.0538 in.

GROSS PROPERTIES		
Area (in^2)	Total cross-sectional steel area	1.009
Weight (lb/ft)	Linear weight per foot	3.43
Ix (in^4)	Moment of inertia about the x-axis	19.687
Sx (in^3)	Section modulus about the x-axis	3.281
Rx (in)	Radius of gyration about the x-axis	4.417
Iy (in^4)	Moment of inertia about the y-axis	0.683
Ry (in)	Radius of gyration about the y-axis	0.823
EFFECTIVE PROPERTIES		
Ix (in^3)	Effective moment of inertia (x-axis)	18.511
Sx (in^3)	Effective section modulus (x-axis)	2.108
Ma (in-k)	Allowable bending moment-effective section modulus	52.69
Mad (in-k)	Allowable bending moment-distortional bucking	47.35
Va_g (lb)	Allowable shear force in web	1377
Va_{net} (lb)	Allowable strong axis sheer at punchout	1102
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	1.078
Cw (in^6)	Warping constant	19.505
Xo (in)	Distance from shear center to centroid	-1.378
m (in)	Distance from shear center to mid-plane of web	0.892
Ro (in)	Polar radius of gyration	4.699
Beta	Torsional Flexural Constant	0.914

**1 Web-height to thickness ratio exceeds 200. Web Stiffeners are required at all support points and concentrated loads.*







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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