PRODUCT SUBMITTAL SHEET

For more information or questions, please contact:
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1000S250-43[1] (Standard Punch)

Product Description: 10” Stud 18GA (2-1/2” Flange, 43 mil)

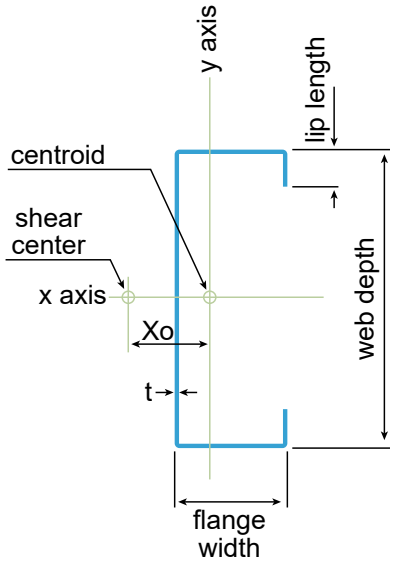
Coating: G60 (standard), G90 (Available)

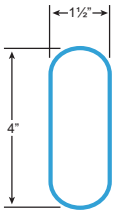
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

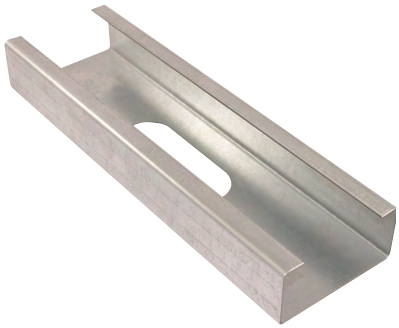
GEOMETRIC PROPERTIES			
Web Depth	10 in.	Yield Strength, Fy	33 ksi
Flange Width	2.500 in.	Design Thickness	0.0451 in.
Lip Length	0.625 in.	Min. Steel Thickness	0.0428 in.

GROSS PROPERTIES		
Area (in^2)	Total cross-sectional steel area	0.717
Weight (lb/ft)	Linear weight per foot	2.44
Ix (in^4)	Moment of inertia about the x-axis	10.205
Sx (in^3)	Section modulus about the x-axis	2.041
Rx (in)	Radius of gyration about the x-axis	3.771
Iy (in^4)	Moment of inertia about the y-axis	0.531
Ry (in)	Radius of gyration about the y-axis	0.860
EFFECTIVE PROPERTIES		
Ix (in^3)	Effective moment of inertia (x-axis)	10.203
Sx (in^3)	Effective section modulus (x-axis)	1.579
Ma (in-k)	Allowable bending moment-effective section modulus	26.06
Mad (in-k)	Allowable bending moment-distortional bucking	22.43
Va_g (lb)	Allowable shear force in web	836
Va_{net} (lb)	Allowable strong axis sheer at punchout	669
TORSIONAL PROPERTIES		
J x 1000 (in^4)	St. Venant torsional constant	0.486
Cw (in^6)	Warping constant	10.481
Xo (in)	Distance from shear center to centroid	-1.518
m (in)	Distance from shear center to mid-plane of web	0.965
Ro (in)	Polar radius of gyration	4.155
Beta	Torsional Flexural Constant	0.867

**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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