PRODUCT SUBMITTAL SHEET

For more information or questions, please contact:
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162S125-30 (Standard Punch)

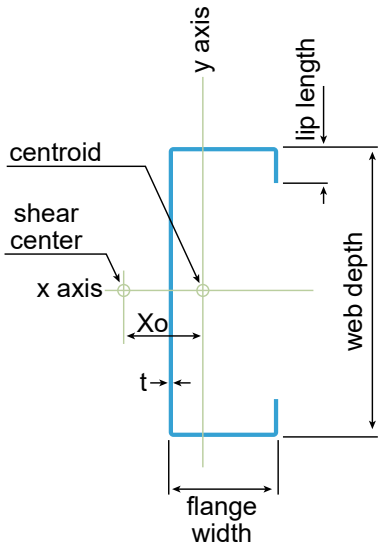
Product Description: 1-5/8" Stud DW 20GA (1-1/4" Flange, 30mil)

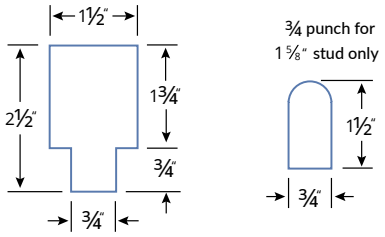
Coating: G40 (standard) G60 (Available)

Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	1.625 in.	Yield Strength, Fy	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0312 in.
Lip Length	0.188 in.	Min. Steel Thickness	0.0296 in.

GROSS PROPERTIES		
Area (in²)	Total cross-sectional steel area	0.132
Weight (lb/ft)	Linear weight per foot	0.45
Ix (in⁴)	Moment of inertia about the x-axis	0.061
Sx (in³)	Section modulus about the x-axis	0.075
Rx (in)	Radius of gyration about the x-axis	0.681
Iy (in⁴)	Moment of inertia about the y-axis	0.026
Ry (in)	Radius of gyration about the y-axis	0.441
EFFECTIVE PROPERTIES		
Ix (in³)	Effective moment of inertia (x-axis)	0.060
Sx (in³)	Effective section modulus (x-axis)	0.061
Ma (in-k)	Allowable bending moment-effective section modulus	1.20
Mad (in-k)	Allowable bending moment-distortional bucking	1.13
Va_g (lb)	Allowable shear force in web	543
Va_{net} (lb)	Allowable strong axis sheer at punchout	106
TORSIONAL PROPERTIES		
J x 1000 (in⁴)	St. Venant torsional constant	0.043
Cw (in⁶)	Warping constant	0.014
Xo (in)	Distance from shear center to centroid	-1.014
m (in)	Distance from shear center to mid-plane of web	0.585
Ro (in)	Polar radius of gyration	1.299
Beta	Torsional Flexural Constant	0.390





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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