

162S125-18 (Standard Punch)

Product Line: 162EDS125-18- The Edge™ Performance 20 (18 mil)

Coating: G40 (standard), G60 (special order)

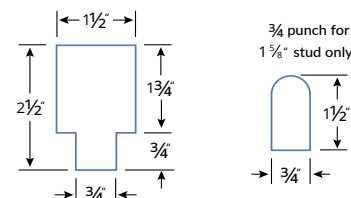
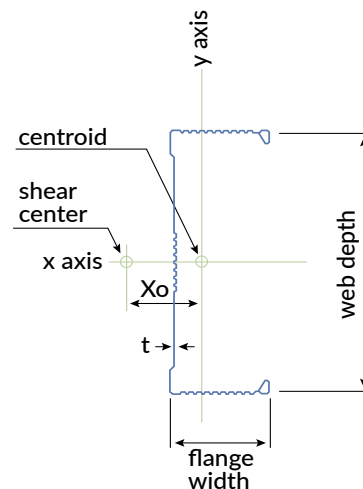
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	1.625 in.	Yield Strength, Fy	55 ksi
Flange Width	1.25 in.	Design Thickness	0.0188 in.
Lip Length	.350 in.	Min. Steel Thickness	0.0179 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.0856
Weight (lb/ft)	Linear weight per foot	0.291
I _x (in ⁴)	Moment of inertia about the x-axis	0.0409
S _x (in ³)	Section modulus about the x-axis	0.0503
R _x (in)	Radius of gyration about the x-axis	0.691
I _y (in ⁴)	Moment of inertia about the y-axis	0.0178
R _y (in)	Radius of gyration about the y-axis	0.4558

EFFECTIVE PROPERTIES		
Area (in ²)	Effective area	0.0527
I _{xe} (in ³)	Effective moment of inertia (x-axis)	0.0337
S _{xe} (in ³)	Effective section modulus (x-axis)	0.0365
Ma (in-k)	Allowable moment capacity	1.0033
V _y (lb)	Allowable shear force in web	214

TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	0.0101
C _w (in ⁶)	Warping constant	0.0097
X _o (in)	Distance from shear center to centroid	1.0465
R _o (in)	Polar radius of gyration	1.3343
Beta	Torsional Flexural Constant	0.3849



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 AND STANDARDS:

Super Stud products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U419, V438, V489, V498, W433, W440
- Tested in accordance with ASTM E119; ANSI/UL 263
- Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202
- Meets ASTM C754 when installed properly in structure

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