

## 600S125-15 (Standard Punch)

Product Line: 600EDS125-15- The Edge™ 25 (15 mil)

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

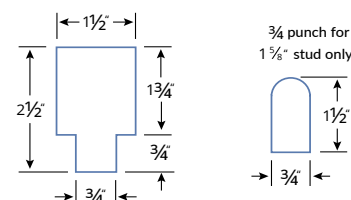
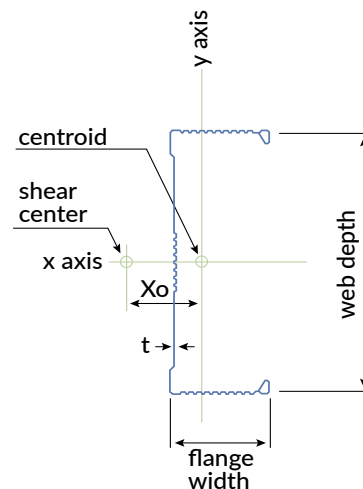
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	6 in.	Yield Strength, $F_y$	50 ksi
Flange Width	1.25 in.	Design Thickness	0.0153 in.
Lip Length	.350 in.	Min. Steel Thickness	0.0145 in.

GROSS PROPERTIES		
Area (in <sup>2</sup> )	Total cross-sectional steel area	0.1332
Weight (lb/ft)	Linear weight per foot	0.453
$I_x$ (in <sup>4</sup> )	Moment of inertia about the x-axis	0.6523
$S_x$ (in <sup>3</sup> )	Section modulus about the x-axis	0.2174
$R_x$ (in)	Radius of gyration about the x-axis	2.213
$I_y$ (in <sup>4</sup> )	Moment of inertia about the y-axis	0.0198
$R_y$ (in)	Radius of gyration about the y-axis	0.3860

EFFECTIVE PROPERTIES		
Area (in <sup>2</sup> )	Effective area	0.0448
$I_{xe}$ (in <sup>3</sup> )	Effective moment of inertia (x-axis)	0.4768
$S_{xe}$ (in <sup>3</sup> )	Effective section modulus (x-axis)	0.1278
$M_a$ (in-k)	Allowable moment capacity	3.1960
$V_y$ (lb)	Allowable shear force in web	46

TORSIONAL PROPERTIES		
$J \times 1000$ (in <sup>4</sup> )	St. Venant torsional constant	0.0100
$C_w$ (in <sup>6</sup> )	Warping constant	0.1389
$X_o$ (in)	Distance from shear center to centroid	0.6124
$R_o$ (in)	Polar radius of gyration	2.3285
Beta	Torsional Flexural Constant	0.9308



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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