



Super Stud Building Products - Product Submittal

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Specification Section: 09.22.16 Non-Structural Metal Framing 250EDS125-15 (50ksi) Standard Punch

The Edge™ 25 Nonstructural Drywall Studs

15mil Coating: G40 (standard), G60 or G90 (special order)

Geometric Properties

Web Depth	2.5 in	Yield Strength, F_y	50 ksi
Flange Width	1.25 in	Design Thickness	0.0150 in
Lip Length	0.350 in	Min. Steel Thickness	0.0145 in

Gross Section Properties

Cross Sectional Area (A)	0.0822 in ²
Product Weight per Linear Foot	0.279 lb/ft
Moment of Inertia (I_x)	0.0865 in ⁴
Section Modulus (S_x)	0.0692 in ³
Radius of Gyration (r_x)	1.026 in
Weak Axis Moment of Inertia (I_y)	0.0167 in ⁴
Weak Axis Radius of Gyration (r_y)	0.4509 in
Depth-to-Thickness Ratio (h/t)	161

Effective Section Properties, Strong Axis

Effective Area (A_e)	0.0430 in ²
Moment of Inertia for Deflection (I_{xe})	0.0674 in ⁴
Section Modulus (S_{xe})	0.0464 in ³
Allowable Bending Moment (M_a)	1.1609 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	177 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	0.0062 in ⁴
Warping Constant (C_w)	0.0205 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	0.9268 in
Radius of Gyration (r_o)	1.4544 in
Torsional Flexural Constant (Beta)	0.5939

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

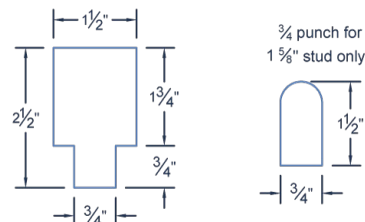
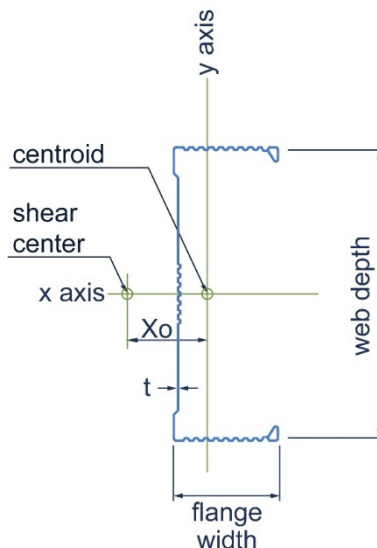
UL Designs: U419, V438, V489, V498, W433, W440

Tested in accordance with ASTM E119; ANSI/UL 263

Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202

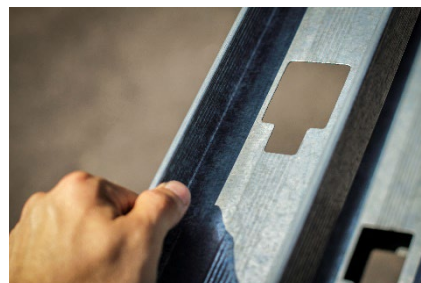
Meets ASTM C754 when installed properly in structure.

3rd party Certification



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.



Sustainability

For LEED letters contact Technical Services at technical@buysuperstud.com or visit

<https://www.buysuperstud.com/specs-resources/sustainability-and-green-building>

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