



Super Stud Building Products - Product Submittal

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Specification Section: 09.22.16 (Non-Structural Metal Framing)

162T125-33 (33ksi) Track

33mil (STR 20 ga) Coating: G60 (standard), G90 (special order)

Geometric Properties

Web Depth	1.625 in	Yield Strength, F_y	33 ksi
Flange Width	1.25 in	Ultimate, F_u	45 ksi
Design Thickness	0.0346 in	Min. Steel Thickness	0.0329 in

Gross Section Properties

Cross Sectional Area (A)	0.1426 in ²
Product Weight per Linear Foot	0.4848 lb/ft
Moment of Inertia (I_x)	0.0772 in ⁴
Section Modulus (S_x)	0.0872 in ³
Radius of Gyration (r_x)	0.7359 in
Weak Axis Moment of Inertia (I_y)	0.0238 in ⁴
Weak Axis Radius of Gyration (r_y)	0.4086 in
Depth-to-Thickness Ratio (h/t)	41

Effective Section Properties, Strong Axis

Effective Area (A_e)	0.0983 in ²
Moment of Inertia for Deflection (I_{xe})	0.0600 in ⁴
Section Modulus (S_{xe})	0.0585 in ³
Allowable Bending Moment (M_a)	1.1561 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	663 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	0.0569 in ⁴
Warping Constant (C_w)	0.0121 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	0.8790 in
Radius of Gyration (r_o)	1.2170 in
Torsional Flexural Constant (Beta)	0.4783

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

Nonstructural:

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

Meets ASTM C754 when installed properly in structure.

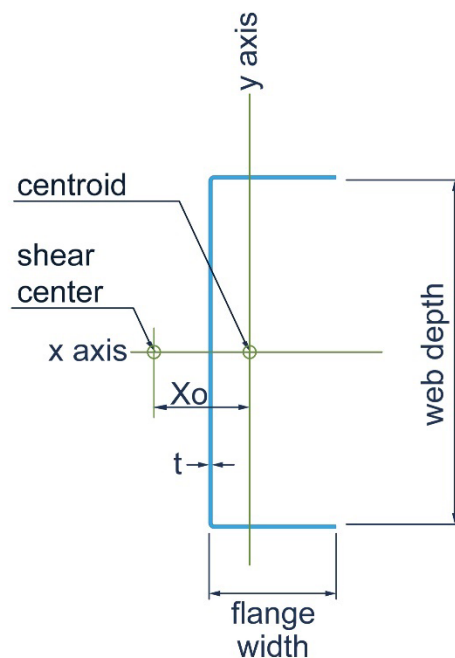
Structural:

Members and tolerances: ASTM C955; AISI S240, AISI S201, AISI S202

Meets ASTM C1007 when installed properly in structure.

Tested for fire resistance in accordance with ASTM E119 and UL 263.

3rd party Certification



Sustainability

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

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