



Super Stud Building Products - Product Submittal

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Specification Section: 09.22.16 (Non-Structural Metal Framing)

162T200-33 (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	2 in	Ultimate, F_u	45 ksi
Design Thickness	0.0346 in	Min. Steel Thickness	0.0329 in

Gross Section Properties

Cross Sectional Area (A)	0.1945 in ²
Product Weight per Linear Foot	0.6613 lb/ft
Moment of Inertia (I_x)	0.1163 in ⁴
Section Modulus (S_x)	0.1314 in ³
Radius of Gyration (r_x)	0.7734 in
Weak Axis Moment of Inertia (I_y)	0.0846 in ⁴
Weak Axis Radius of Gyration (r_y)	0.6596 in
Depth-to-Thickness Ratio (h/t)	41

Effective Section Properties, Strong Axis

Effective Area (A_e)	0.1005 in ²
Moment of Inertia for Deflection (I_{xe})	0.0727 in ⁴
Section Modulus (S_{xe})	0.0636 in ³
Allowable Bending Moment (M_a)	1.2571 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	663 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	0.0776 in ⁴
Warping Constant (C_w)	0.0450 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	1.5772 in
Radius of Gyration (r_o)	1.8764 in
Torsional Flexural Constant (Beta)	0.2935

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.

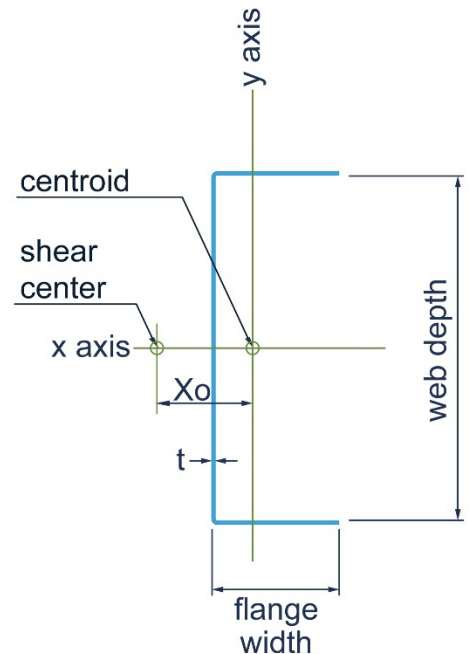
Structural:

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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