



Super Stud Building Products - Product Submittal

Technical Services: technical@buysuperstud.com

800-477-7883
buysuperstud.com

New Jersey
2960 Woodbridge Avenue
Edison, NJ 08837
732-662-6200

Mississippi
53 W L Runnels Industrial Dr
Hattiesburg, MS 39401
601-584-7550

Specification Section: 09.22.16 (Non-Structural Metal Framing)

250T200-33 (33ksi) Track

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

Geometric Properties

Web Depth	2.5 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)	0.2248 in ²
Product Weight per Linear Foot	0.7643 lb/ft
Moment of Inertia (I_x)	0.2804 in ⁴
Section Modulus (S_x)	0.2119 in ³
Radius of Gyration (r_x)	1.1168 in
Weak Axis Moment of Inertia (I_y)	0.0974 in ⁴
Weak Axis Radius of Gyration (r_y)	0.6584 in
Depth-to-Thickness Ratio (h/t)	66

Effective Section Properties, Strong Axis

Effective Area (A_e)	0.1074 in ²
Moment of Inertia for Deflection (I_{xe})	0.1855 in ⁴
Section Modulus (S_{xe})	0.1127 in ³
Allowable Bending Moment (M_a)	2.2262 in-k
Allowable Shear Force in Web (at Punchout) (V_y)	1,024 lb

Torsional Properties

St. Venant Torsion Constant ($J \times 1000$)	0.0897 in ⁴
Warping Constant (C_w)	0.1144 in ⁶
Distance from Shear Center to Neutral Axis (X_o)	1.4302 in
Radius of Gyration (r_o)	1.9304 in
Torsional Flexural Constant (Beta)	0.4511

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.

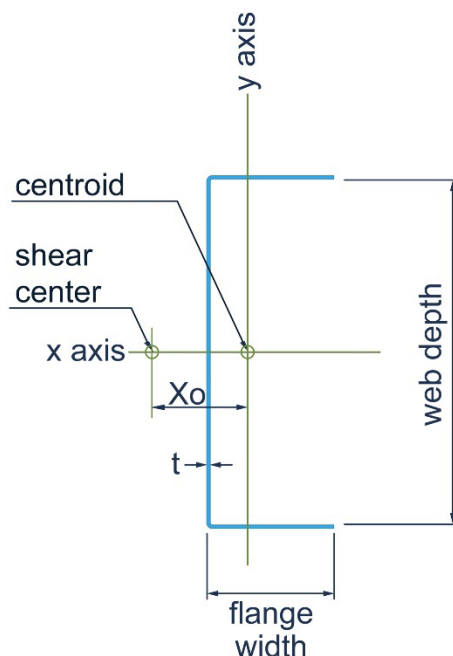
Structural:

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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