

PRODUCT SUBMITTAL SPEC SHEET

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Product Category: Structural Metal Stud Framing: Specification Section 05 40 00

Available Coatings: G60 (standard), G90. Yield Strength: 33 ksi

Product Name: 10TRS20 AISI Nomenclature: 1000T125-33

Product Description: 10 inch deep 20 gauge track member with 1-1/4" flanges

Material and Shape Property Notes:

Thickness: Design: 0.0346" ● Minimum: 0.0329" ●

Designation: 33 mil ● Gauge: 20 Flange width: 1-1/4" ● Web Depth: 10"

Nonstandard Member

Depth-to-thickness ratio exceeds AISI requirements for structural members.

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 0.4329 in^2 Member Weight: 1.472 pounds per foot Moment of Inertia, strong axis ($\mathbf{I_x}$): 5.1097 in^4 Radius of Gyration, strong axis ($\mathbf{R_x}$): 3.436 in. Moment of Inertia, weak axis ($\mathbf{I_y}$): 0.0368 in^4 Radius of Gyration, weak axis ($\mathbf{R_y}$): 0.292 in.

Effective Section Properties:

Effective Moment of Inertia ($I_{x eff}$): 3.3461 in⁴ Effective Section Modulus ($S_{x eff}$): 0.5172 in³ Allowable Moment (M_a): 8.5330 inch-kips Torsional Properties:

St. Venant Torsional Constant (J x 1000): 0.1728 in⁴

Warping Constant (C_w): 0.7504 in⁶ Polar Radius of Gyration (R_o): 3.469 in Distance from shear center (X_o): -0.385 in

Beta: 0.9877 Flat web to thickness ratio (h/t): exceeds 260.



CODES & STANDARDS

Super Stud products comply with the applicable provisions of the following:

International Building Code (IBC) 2006 - 2018 Sheet Steel: ASTM A1003 & ASTM A653

Galvanized Coating: ASTM A653 Members & Tolerances: ASTM C955

Meets ASTM C1007 when installed properly in structure

3rd Party Certification: Manufacturing verified & inspected by Home Innovation Research Labs, Inc.







