

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: 50 ksi

Product Name: 10TH12 AISI Nomenclature: 1000T300-97

Product Description: 10 inch deep 12 gauge track member with 3" flanges

Material and Shape Property Notes:

Thickness: Design: 0.1017" ● Minimum: 0.0966" ● Designation: 97 mil ● Equivalent Gauge: 12

Flange width: 3" ● Web Depth: 10"

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 1.625 in^2 Member Weight: 5.5249 pounds per foot Moment of Inertia, strong axis ($\mathbf{I_x}$): 24.436 in^4 Radius of Gyration, strong axis ($\mathbf{R_x}$): 3.878 in. Moment of Inertia, weak axis ($\mathbf{I_y}$): 1.258 in^4 Radius of Gyration, weak axis ($\mathbf{R_y}$): 0.8799 in.

Effective Section Properties:

Effective Moment of Inertia ($I_{x eff}$): 20.364 in⁴ Effective Section Modulus ($S_{x eff}$): 3.5936 in³ Allowable Moment (M_a): 107.59 inch-kips

Torsional Properties:

St. Venant Torsional Constant (**J** x 1000): 5.602 in⁴

Warping Constant (C_w): 23.502 in⁶ Polar Radius of Gyration (R_o): 4.248 in Distance from shear center (X_o): -1.4946 in Beta: 0.8762 Flat web to thickness ratio (h/t): 93



CODES & STANDARDS

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

International Building Code (IBC) 2006 - 2015 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.







