

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: 6DT12 AISI Nomenclature: 600T250-97

Product Description: 6 inch deep 12 gauge track member with 2 1/2" flanges

Material and Shape Property Notes:

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

Flange width: 2 1/2" ● Web Depth: 6"

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 1.117 in² Member Weight: 3.796 pounds per foot Moment of Inertia, strong axis (**I**_x): 6.769 in⁴ Radius of Gyration, strong axis (**R**_x): 2.462 in. Moment of Inertia, weak axis (**I**_y): 0.6628 in⁴ Radius of Gyration, weak axis (**R**_y): 0.7705 in.

Effective Section Properties:

Effective Moment of Inertia ($I_{x eff}$): 5.758 in⁴ Effective Section Modulus ($S_{x eff}$): 1.6606 in³ Allowable Moment (M_a): 49.719 inch-kips Torsional Properties:

St. Venant Torsional Constant (J x 1000): 0.3849 in⁴

Warping Constant (C_w): 4.4527 in Polar Radius of Gyration (R_o): 2.9474 in Distance from shear center (X_o): -1.4251 in Beta: 0.7662 Flat web to thickness ratio (h/t): 54



CODES & STANDARDS

 ${\it Super Stud products comply with the applicable provisions of the following:}$

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.







