

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: 8TH12 AISI Nomenclature: 800T300-97

Product Description: 8 inch deep 12 gauge stud/joist 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: 8"

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 1.4216 in^2 Member Weight: 4.833 pounds per foot Moment of Inertia, strong axis (**I**_x): 14.678 in^4 Radius of Gyration, strong axis (**R**_x): 3.2133 in. Moment of Inertia, weak axis (**I**_y): 1.189 in^4 Radius of Gyration, weak axis (**R**_y): 0.9145 in.

Effective Section Properties:

Effective Moment of Inertia ($I_{x eff}$): 12.006 in⁴ Effective Section Modulus ($S_{x eff}$): 2.591 in³ Allowable Moment (M_a): 77.58 inch-kips

Torsional Properties:

St. Venant Torsional Constant (**J** x 1000): 4.901 in⁴

Warping Constant (C_w): 14.095 in⁶ Polar Radius of Gyration (R_o): 3.725 in Distance from shear center (X_o): -1.6468 in Beta: 0.8046 Flat web to thickness ratio (h/t): 74



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.







