

PRODUCT SUBMITTAL SPEC SHEET

Tel: 732-662-6200 • Fax: 732-548-6036 2960 Woodbridge Avenue • Edison, NJ 08837 www.buysuperstud.com

Product Category: structural metal stud framing: specification section 05 40 00

Available Coatings: G60 (standard), G90. Yield Strength: 50 ksi

Product Name: 8DT16 AISI Nomenclature: 800T250-54
Product Description: 8" inch deep 16 gauge stud/joist member with 2 1/2" flanges

Material and Shape Property Notes:

Thickness: Design: 0.0566" ● Minimum: 0.0538" ● Designation: 54 mil ● Equivalent Gauge: 16

Flange width: 2 1/2" ● Web Depth: 8"

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 0.73511 in^2 Member Weight: 2.4994 pounds per foot Moment of Inertia, strong axis (**I**_x): 7.0902 in^4 Radius of Gyration, strong axis (**R**_x): 3.1057 in. Moment of Inertia, weak axis (**I**_y): 0.4072 in^4 Radius of Gyration, weak axis (**R**_y): 0.7443 in.

Effective Section Properties:

Effective Moment of Inertia ($I_{x eff}$): 4.829 in⁴ Effective Section Modulus ($S_{x eff}$): 0.9602 in³ Allowable Moment (M_a): 28.749 inch-kips

Torsional Properties:

St. Venant Torsional Constant (**J** x 1000): 7.850 in⁴

Warping Constant (C_w): 4.8129 in⁶ Polar Radius of Gyration (R_o): 3.4398 in Distance from shear center (X_o): -1.2780 in

Beta: 0.8619 Flat web to thickness ratio (h/t): 136



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.







