

PRODUCT SUBMITTAL SPEC SHEET

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

Building Products, Inc.

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

Available Coatings: G60 (standard); or G90 Yield Strength: 33 ksi

Product Name: 8TH18 AISI Nomenclature: 800T300-43

Product Description: 8 inch 18 gauge track member with 3 inch flanges

Material and Shape Property Notes:

Thickness: Design: 0.0451" ● Minimum: 0.0428" ● Designation: 43 mil ● Equivalent Gauge: 18

Flange width: 3" • Web Depth: 8"

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 0.631 in² Member Weight: 2.145 pounds per foot Moment of Inertia, strong axis (I_x): 6.372 in⁴ Radius of Gyration, strong axis (R_x): 3.178 in. Moment of Inertia, weak axis (I_y): 0.540 in⁴ Radius of Gyration, weak axis (R_y): 0.925 in.

Effective Section Properties:[1]

Effective Section Modulus ($\mathbf{S}_{x \text{ eff}}$): 0.738 in³ Allowable Bending Moment (\mathbf{M}_{a}): 12.172 inch-kips

Gross Allowable Shear (Va): 1.030 kips

Torsional Properties:

St. Venant Torsional Constant (J x 1000): 0.428 in4

Warping Constant (C_w): 6.260 in⁶ Polar Radius of Gyration (R_o): 3.706 in Distance from shear center (X_o): -1.666 in

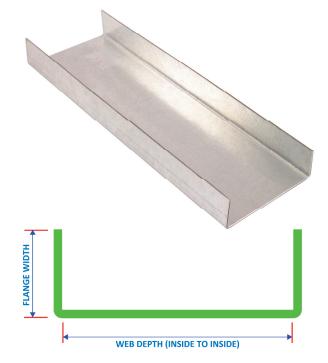
Beta (β): 0.798 Flat web to thickness ratio (h/t): 172

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.













[1] Where "NC" appears, the effective properties have not been calculated, due to limits in the American Iron and Steel Institute (AISI) North American Specification for the Design of Cold-Formed Steel Structural Members (AISI S100).

The Super Stud Building Products Family of Companies









