

PRODUCT SUBMITTAL SPEC SHEET

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

Available Coatings: G60 (standard); or G90 Yield Strength: 50 ksi

Product Name: 4DT12 AISI Nomenclature: 400T250-97

Product Description: 4 inch 12 gauge track member with 2-1/2 inch flanges

Material and Shape Property Notes:

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

Flange width: 2-1/2" ● Web Depth: 4"

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 0.91307 in^2 Member Weight: 3.104 pounds per foot Moment of Inertia, strong axis (I_x): 2.825 in^4 Radius of Gyration, strong axis (R_x): 1.759 in. Moment of Inertia, weak axis (I_y): 0.5883 in^4 Radius of Gyration, weak axis (R_y): 0.8027 in.

Effective Section Properties:[1]

Effective Section Modulus (**S**_{x eff}): 0.9696 in³ Allowable Bending Moment (**M**_a): 29.031 inch-kips Gross Allowable Shear (**V**_a): 7.337 kips

Torsional Properties:

St. Venant Torsional Constant (J x 1000): 3.1479 in⁴

Warping Constant (C_w): 1.7942 in⁶ Polar Radius of Gyration (R_o): 2.5356 in Distance from shear center (X_o): -1.6404 in

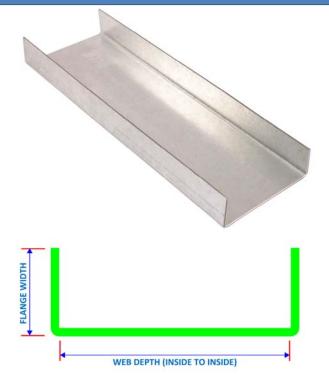
Beta (**β**): 0.5815

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.

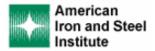












[1] Where "NC" appears, the effective properties have not been calculated, due to limits in the American Iron and Steel Institute (AISI) North American Specification for the Design of Cold-Formed Steel Structural Members (AISI S100).











