

# 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: 4DT16 AISI Nomenclature: 400T250-54

**Product Description:** 4 inch deep 16 gauge track 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: 4"

## **SECTION PROPERTIES**

#### **Gross Section Properties:**

Cross Section Area (**A**):  $0.50871 \text{ in}^2$ Member Weight: 1.7296 pounds per foot Moment of Inertia, strong axis (**I**<sub>x</sub>):  $1.5110 \text{ in}^4$ Radius of Gyration, strong axis (**R**<sub>x</sub>): 1.7235 in. Moment of Inertia, weak axis (**I**<sub>y</sub>):  $0.3347 \text{ in}^4$ Radius of Gyration, weak axis (**R**<sub>y</sub>): 0.8111 in.

## **Effective Section Properties:**

Effective Moment of Inertia ( $I_{x eff}$ ): 1.0508 in<sup>4</sup> Effective Section Modulus ( $S_{x eff}$ ): 0.41434 in<sup>3</sup> Allowable Moment ( $M_a$ ): 12.406 inch-kips

**Torsional Properties:** 

St. Venant Torsional Constant (J x 1000): 0.5432 in<sup>4</sup>

Warping Constant ( $C_w$ ): 0.9856 in Polar Radius of Gyration ( $R_o$ ): 2.5263 in Distance from shear center ( $X_o$ ): -1.6595 in Beta: 0.5685 Flat web to thickness ratio (h/t): 66



#### **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

3<sup>rd</sup> Party Certification: Manufacturing verified & inspected by Home Innovation Research Labs, Inc.







