

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

Available Coatings: G60 (standard); or G90

Yield Strength: 50 ksi

Product Name: 6DT16

AISI Nomenclature: 600T250-54

Product Description: 6 inch 16 gauge track member with 2.5 inch flanges

Material and Shape Property Notes:

Thickness: Design: 0.0566" • Minimum: 0.0538" • Designation: 54 mil • Equivalent Gauge:
16 Flange width: 2.5" • Web Depth: 6"

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 0.62191 in²

Member Weight: 2.1145 pounds per foot

Moment of Inertia, strong axis (**I_x**): 3.6787 in⁴

Radius of Gyration, strong axis (**R_x**): 2.4321 in.

Moment of Inertia, weak axis (**I_y**): 0.3775 in⁴

Radius of Gyration, weak axis (**R_y**): 0.7791 in.

Effective Section Properties:^[1]

Effective Section Modulus (**S_{x eff}**): 0.7335 in³

Allowable Bending Moment (**M_a**): 21.961 inch-kips

Gross Allowable Shear (**V_a**): 2.728 kips

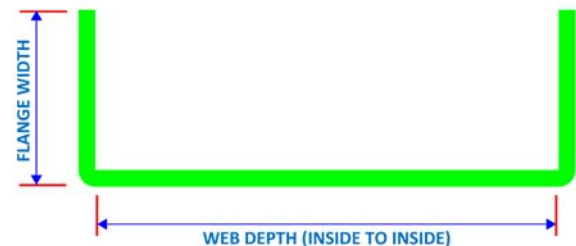
Torsional Properties:

St. Venant Torsional Constant (**J x 1000**): 0.6641 in⁴

Warping Constant (**C_w**): 2.4776 in⁶

Polar Radius of Gyration (**R_o**): 2.9326 in Distance
from shear center (**X_o**): -1.4415 in

Beta (**β**): 0.7584



CODES & STANDARDS

Super Stud products comply with the applicable provisions of the following:

International Building Code (IBC) 2006 - 2015

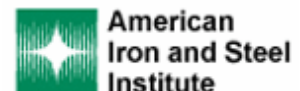
Sheet Steel: ASTM A1003 & ASTM A653

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