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: 33 ksi
Product Name: 4DT18
AISI Nomenclature: 400T250-43
Product Description: 4 inch 18 gauge track member with 2-1/2 inch flanges

Material and Shape Property Notes:

Thickness: Design: 0.0451" ● Minimum: 0.0428" ● Designation: 43 mil ● Gauge: 18
Flange width: 2-1/2" ● Web Depth: 4"

SECTION PROPERTIES

Gross Section Properties:

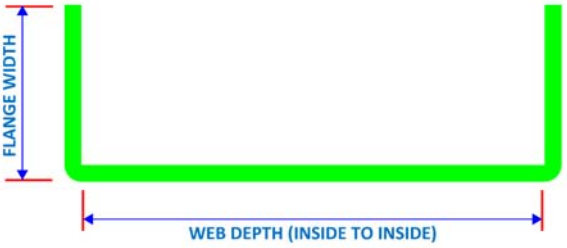
Cross Section Area (**A**): 0.40548 in^2
Member Weight: 1.379 pounds per foot
Moment of Inertia, strong axis (I_x): 1.1932 in^4
Radius of Gyration, strong axis (R_x): 1.715 in.
Moment of Inertia, weak axis (I_y): 0.2682 in^4
Radius of Gyration, weak axis (R_y): 0.8133 in.

Effective Section Properties:[1]

Effective Section Modulus ($S_{x\ eff}$): 0.3243 in^3
Allowable Bending Moment (M_a): 6.409 inch-kips
Gross Allowable Shear (V_a): 1.739 kips

Torsional Properties:

St. Venant Torsional Constant (**J** x 1000): 0.2749 in^4
Warping Constant (C_w): 0.7829 in^6
Polar Radius of Gyration (R_o): 2.5247 in
Distance from shear center (X_o): -1.6643 in
Beta (β): 0.5654



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