

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

Available Coatings: G60 (standard); or G90

Yield Strength: 33 ksi

Product Name: 12TR18

AISI Nomenclature: 1200T125-43

Product Description: 12 inch 18 gauge track member with 1-1/4 inch flanges

Material and Shape Property Notes:

Depth to thickness exceeds 260.

Thickness: Design: 0.0451" • Minimum: 0.0428" • Designation: 43 mil • Gauge: 18
Flange width: 1-1/4" • Web Depth: 12"

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 0.654 in²

Member Weight: 2.222 pounds per foot

Moment of Inertia, strong axis (**I_x**): 10.615 in⁴

Radius of Gyration, strong axis (**R_x**): 4.030 in.

Moment of Inertia, weak axis (**I_y**): 0.049 in⁴

Radius of Gyration, weak axis (**R_y**): 0.273 in.

Effective Section Properties:^[1]

Effective Section Modulus (**S_{x eff}**): 0.999 in³

Allowable Bending Moment (**M_a**): 16.481 inch-kips

Gross Allowable Shear (**V_a**): 0.547 kips

Torsional Properties:

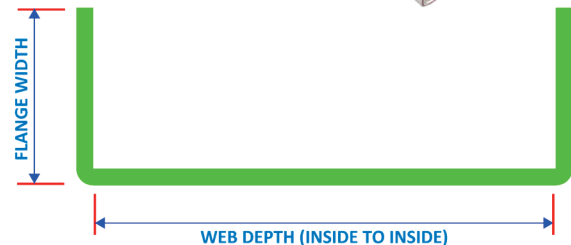
St. Venant Torsional Constant (**J** x 1000): 0.443 in⁴

Warping Constant (**C_w**): 1.452 in⁶

Polar Radius of Gyration (**R_o**): 4.054 in

Distance from shear center (**X_o**): -0.339 in

Beta (**β**): 0.993 Flat web to thickness ratio (**h/t**): 266



CODES & STANDARDS

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

International Building Code (IBC) 2006 - 2015

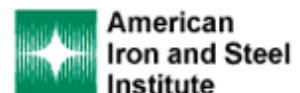
Sheet Steel: ASTM A1003 & ASTM A653

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