

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

Available Coatings: G60 (standard); or G90

Yield Strength: 33 ksi

Product Name: 10TR18

AISI Nomenclature: 1000T125-43

Product Description: 10 inch 18 gauge track member with 1-1/4 inch flanges

Material and Shape Property Notes:

Thickness: Design: 0.0451" • Minimum: 0.0428" • Designation: 43 mil • Equivalent Gauge: 18
Flange width: 1-1/4" • Web Depth: 10"

SECTION PROPERTIES

Gross Section Properties:

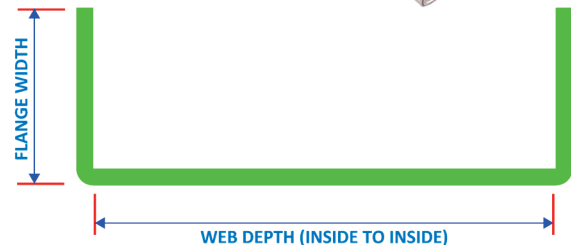
Cross Section Area (**A**): 0.565 in²
Member Weight: 1.921 pounds per foot
Moment of Inertia, strong axis (**I_x**): 6.681 in⁴
Radius of Gyration, strong axis (**R_x**): 3.440 in.
Moment of Inertia, weak axis (**I_y**): 0.047 in⁴
Radius of Gyration, weak axis (**R_y**): 0.290 in.

Effective Section Properties:^[1]

Effective Section Modulus (**S_{x eff}**): 1.254 in³
Allowable Bending Moment (**M_a**): 17.621 inch-kips
Gross Allowable Shear (**V_a**): 0.769 kips

Torsional Properties:

St. Venant Torsional Constant (**J** x 1000): 0.383 in⁴
Warping Constant (**C_w**): 0.979 in⁶
Polar Radius of Gyration (**R_o**): 3.473 in
Distance from shear center (**X_o**): -0.382 in
Beta (**β**): 0.988 Flat web to thickness ratio (**h/t**): 220.887



CODES & STANDARDS

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

International Building Code (IBC) 2006 - 2015

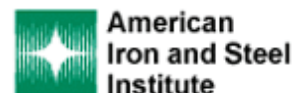
Sheet Steel: ASTM A1003 & ASTM A653

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).

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