

Product Category: Structural Metal Stud Framing: Specification Section 05 40 00
Available Coatings: G60 (standard), G90. **Yield Strength:** 33 ksi
Product Name: 1-5/8TW18 **AISI Nomenclature:** 162T200-43
Product Description: 1-5/8 inch deep 18 gauge track member with 2" flanges

Material and Shape Property Notes:

Thickness: Design: 0.0451" • Minimum: 0.0428" • Designation: 43 mil • Equivalent Gauge: 18
Flange width: 2" • Web Depth: 1-5/8"

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 0.2533 in²
Member Weight: 0.8611 pounds per foot
Moment of Inertia, strong axis (**I_x**): 0.1523 in⁴
Radius of Gyration, strong axis (**R_x**): 0.7754 in.
Moment of Inertia, weak axis (**I_y**): 0.1096 in⁴
Radius of Gyration, weak axis (**R_y**): 0.6580 in.

Effective Section Properties:

Effective Moment of Inertia (**I_{x eff}**): 0.1045 in⁴
Effective Section Modulus (**S_{x eff}**): 0.09416 in³
Allowable Moment (**M_a**): 1.861 inch-kips

Torsional Properties:

St. Venant Torsional Constant (**J** x 1000): 0.1717 in⁴
Warping Constant (**C_w**): 0.0586 in⁶
Polar Radius of Gyration (**R_p**): 1.8716 in
Distance from shear center (**X_o**): -1.5712 in
Beta: 0.2952 Flat web to thickness ratio (**h/t**): 31



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.

