

Product Category: structural metal stud framing: specification section 05 40 00
Available Coatings: G60 (standard), G90. **Yield Strength:** 33 ksi
Product Name: 2 1/2DT20 **AISI Nomenclature:** 250T250-33
Product Description: 2 1/2 inch deep 20 gauge track member with 2 1/2" flanges

Material and Shape Property Notes:

Thickness: Design: 0.0346" • Minimum: 0.0329" • Designation: 33 mil • Gauge: 20
Flange width: 2 1/2" • Web Depth: 2 1/2"

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 0.2594 in²
Member Weight: 0.8818 pounds per foot
Moment of Inertia, strong axis (**I_x**): 0.3393 in⁴
Radius of Gyration, strong axis (**R_x**): 1.1438 in.
Moment of Inertia, weak axis (**I_y**): 0.1776 in⁴
Radius of Gyration, weak axis (**R_y**): 0.8274 in.

Effective Section Properties:

Effective Moment of Inertia (**I_{x eff}**): 0.2017 in⁴
Effective Section Modulus (**S_{x eff}**): 0.1167 in³
Allowable Moment (**M_a**): 1.9248 inch-kips

Torsional Properties:

St. Venant Torsional Constant (**J** x 1000): 0.1035 in⁴
Warping Constant (**C_w**): 0.2118 in⁶
Polar Radius of Gyration (**R_p**): 2.3602 in
Distance from shear center (**X_o**): -1.8915 in
Beta: 0.3577 Flat web to thickness ratio (**h/t**): 66



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.

