

Product Category: structural metal stud framing: specification section 05 40 00
Available Coatings: G60 (standard), G90. **Yield Strength:** 33 ksi
Product Name: 6DT20 **AISI Nomenclature:** 600T250-33
Product Description: 6" 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: 6"

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 0.3805 in²
Member Weight: 1.2936 pounds per foot
Moment of Inertia, strong axis (**I_x**): 2.2358 in⁴
Radius of Gyration, strong axis (**R_x**): 2.4242 in.
Moment of Inertia, weak axis (**I_y**): 0.2334 in⁴
Radius of Gyration, weak axis (**R_y**): 0.7833 in.

Effective Section Properties:

Effective Moment of Inertia (**I_{x eff}**): 1.3303 in⁴
Effective Section Modulus (**S_{x eff}**): 0.3323 in³
Allowable Moment (**M_a**): 5.4833 inch-kips

Torsional Properties:

St. Venant Torsional Constant (**J x 1000**): 0.1518 in⁴
Warping Constant (**C_w**): 1.5202 in⁶
Polar Radius of Gyration (**R_p**): 2.9316 in
Distance from shear center (**X_o**): -1.4505 in
Beta: 0.7552 Flat web to thickness ratio (**h/t**): 225



CODES & STANDARDS

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

International Building Code (IBC) 2006 - 2018
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.

