

Product Category: Structural Metal Stud Framing: Specification Section 05 40 00
Available Coatings: G60 (standard); or G90 **Yield Strength:** 33 ksi
Product Name: 2-1/2TW20 **AISI Nomenclature:** 250T200-33
Product Description: 2-1/2 inch 20 gauge track member with 2 inch flanges

Material and Shape Property Notes:

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

SECTION PROPERTIES

Gross Section Properties:

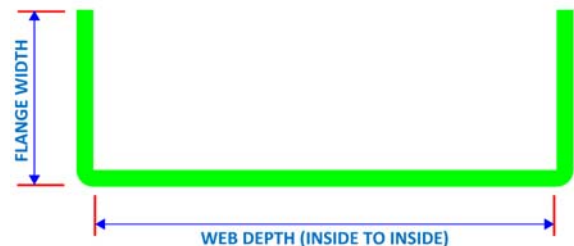
Cross Section Area (**A**): 0.2248 in²
Member Weight: 0.7642 pounds per foot
Moment of Inertia, strong axis (**I_x**): 0.2804 in⁴
Radius of Gyration, strong axis (**R_x**): 1.1169 in.
Moment of Inertia, weak axis (**I_y**): 0.0974 in⁴
Radius of Gyration, weak axis (**R_y**): 0.6584 in.

Effective Section Properties:^[1]

Effective Section Modulus (**S_{x eff}**): 0.1127 in³
Allowable Bending Moment (**M_a**): 2.2262 inch-kips
Gross Allowable Shear (**V_a**): 1.0236 kips

Torsional Properties:

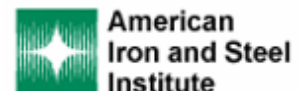
St. Venant Torsional Constant (**J x 1000**): 0.0897 in⁴
Warping Constant (**C_w**): 0.1144 in⁶
Polar Radius of Gyration (**R_o**): 1.9304 in
Distance from shear center (**X_o**): -1.4302 in
Beta (**β**): 0.4511



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