

Product Category: structural metal stud framing: specification section 05 40 00
Available Coatings: G60 (standard), G90. **Yield Strength:** 50 ksi
Product Name: 12TX14 **AISI Nomenclature:** 1200T350-68
Product Description: 12 inch deep 14 gauge track member with 3-1/2" flanges

Material and Shape Property Notes:

Thickness: Design: 0.0713" • Minimum: 0.0677" • Designation: 68 mil • Equivalent Gauge: 14
Flange width: 3-1/2" • Web Depth: 12"

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 1.3536 in²
Member Weight: 4.6022 pounds per foot
Moment of Inertia, strong axis (**I_x**): 28.723 in⁴
Radius of Gyration, strong axis (**R_x**): 4.6065 in.
Moment of Inertia, weak axis (**I_y**): 1.436 in⁴
Radius of Gyration, weak axis (**R_y**): 1.0298 in.

Effective Section Properties:

Effective Section Modulus (**S_{x eff}**): 2.2702 in³
Allowable Bending Moment (**M_a**): 67.97 inch-kips
Gross Allowable Shear (**V_a**): 2.712 kips

Torsional Properties:

St. Venant Torsional Constant (**J** x 1000): 2.294 in⁴
Warping Constant (**C_w**): 38.180 in⁶
Polar Radius of Gyration (**R_p**): 5.0294 in
Distance from shear center (**X_o**): -1.7363 in
Beta: 0.8808 Flat web to thickness ratio (**h/t**): 165



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.

