

Product Category: Structural Metal Stud Framing: Specification Section 05 40 00
Available Coatings: G60 (standard); or G90
Product Name: 6DT14
Product Description: 6 inch 14 gauge track member with 2-1/2 inch flanges
Yield Strength: 50 ksi
AISI Nomenclature: 600T250-68

Material and Shape Property Notes:

Thickness: Design: 0.0713" • Minimum: 0.0677" • Designation: 68 mil • Equivalent Gauge: 14
Flange width: 2-1/2" • Web Depth: 6"

SECTION PROPERTIES

Gross Section Properties:

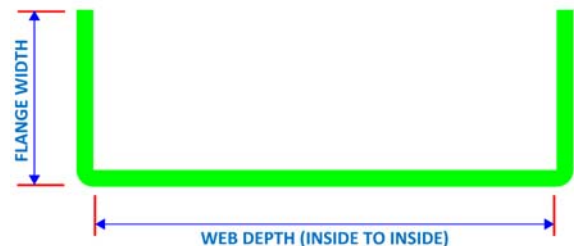
Cross Section Area (**A**): 0.78320 in²
Member Weight: 2.6629 pounds per foot
Moment of Inertia, strong axis (**I_x**): 4.6707 in⁴
Radius of Gyration, strong axis (**R_x**): 2.4421 in.
Moment of Inertia, weak axis (**I_y**): 0.4720 in⁴
Radius of Gyration, weak axis (**R_y**): 0.7763 in.

Effective Section Properties:[1]

Effective Section Modulus (**S_{x eff}**): 1.0191 in³
Allowable Bending Moment (**M_a**): 30.512 inch-kips
Gross Allowable Shear (**V_a**): 5.350 kips

Torsional Properties:

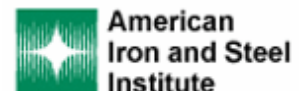
St. Venant Torsional Constant (**J x 1000**): 0.13272 in⁴
Warping Constant (**C_w**): 3.1226 in⁶
Polar Radius of Gyration (**R_o**): 2.9375 in
Distance from shear center (**X_o**): -1.4362 in
Beta (**β**): 0.7610



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