PRODUCT SUBMITTAL SPEC SHEET

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Product Category: Structural Metal Stud Framing: Specification Section 05 40 00
Available Coatings: G60 (standard); or G90 **Yield Strength:** 50 ksi
Product Name: 16TR14 **AISI Nomenclature:** 1600T125-68
Product Description: 16 inch 14 gauge track member with 1-1/4 inch flanges

Material and Shape Property Notes:

Thickness: Design: 0.0713" ● Minimum: 0.0677" ● Designation: 68 mil ● Equivalent Gauge: 14
Flange width: 1-1/4" ● Web Depth: 16"

SECTION PROPERTIES

Gross Section Properties:

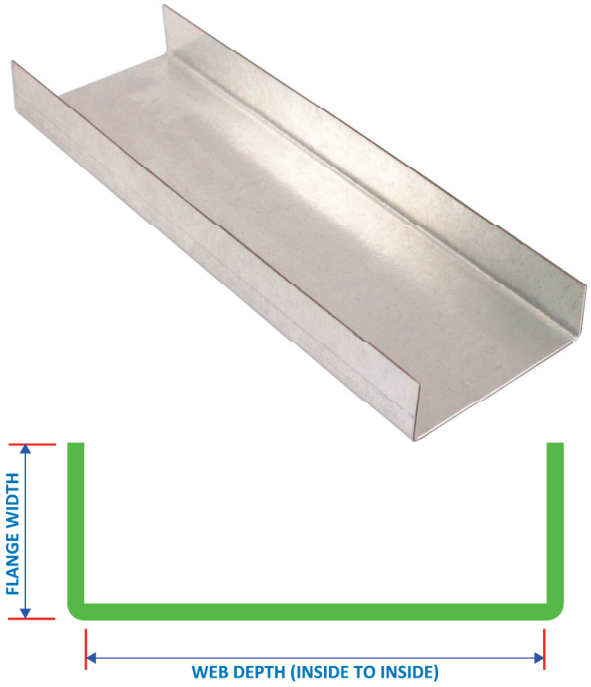
Cross Section Area (**A**): 1.314 in^2
Member Weight: 4.470 pounds per foot
Moment of Inertia, strong axis (I_x): 35.563 in^4
Radius of Gyration, strong axis (R_x): 5.203 in.
Moment of Inertia, weak axis (I_y): 0.077 in^4
Radius of Gyration, weak axis (R_y): 0.242 in.

Effective Section Properties:[1]

Effective Section Modulus ($S_{x\ eff}$): 4.392 in^3
Allowable Bending Moment (M_a): 83.643 inch-kips
Gross Allowable Shear (V_a): 1.912 kips

Torsional Properties:

St. Venant Torsional Constant (**J** x 1000): 2.226 in^4
Warping Constant (C_w): 4.236 in^6
Polar Radius of Gyration (R_o): 5.216 in
Distance from shear center (X_o): -0.272 in
Beta (β): 0.997 Flat web to thickness ratio (**h/t**): 222.034



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