

Product Category: Structural Metal Stud Framing: Specification Section 05 40 00
Available Coatings: G60 (standard); or G90 **Yield Strength:** 50 ksi
Product Name: 6SSJ16 **AISI Nomenclature:** 600S162-54
Product Description: 6 inch 16 gauge stud/joist member with 1-5/8 inch flanges

Material and Shape Property Notes:

Thickness: Design: 0.0566" • Minimum: 0.0538" • Designation: 54 mil • Equivalent Gauge: 16
Flange width: 1-5/8" • Web Depth: 6" • Stiffening Lip Length: 1/2"

SECTION PROPERTIES

Gross Section Properties:

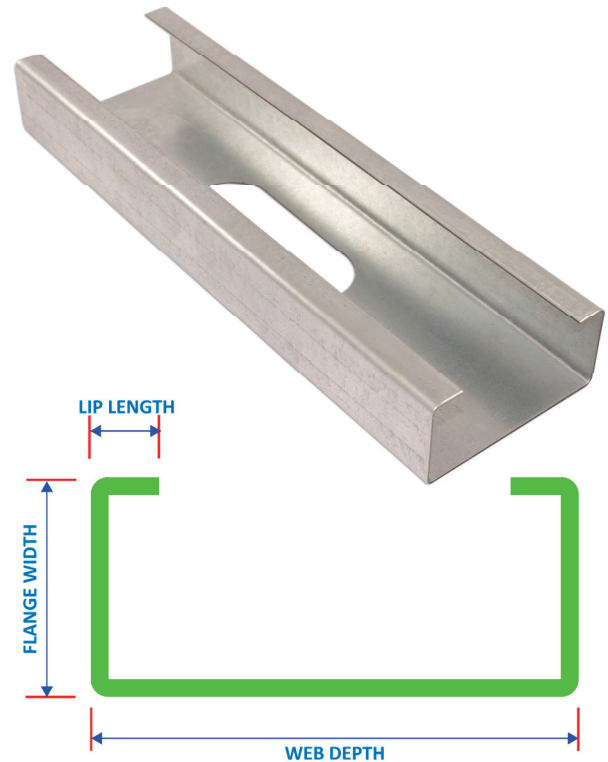
Cross Section Area (**A**): 0.563 in²
Member Weight: 1.917 pounds per foot
Moment of Inertia, strong axis (**I_x**): 2.904 in⁴
Radius of Gyration, strong axis (**R_x**): 2.270 in.
Moment of Inertia, weak axis (**I_y**): 0.190 in⁴
Radius of Gyration, weak axis (**R_y**): 0.581 in.

Effective Section Properties:^[1]

Effective Section Modulus (**S_{x,eff}**): 0.963 in³
Allowable Bending Moment (**M_a**): 28.817 inch-kips
Gross Allowable Shear (**V_a**): 2.648 kips

Torsional Properties:

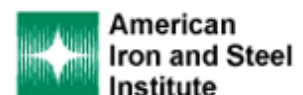
St. Venant Torsional Constant (**J** x 1000): 0.602 in⁴
Warping Constant (**C_w**): 1.418 in⁶
Polar Radius of Gyration (**R_o**): 2.593 in
Distance from shear center (**X_o**): -1.109 in
Beta (**β**): 0.817 Flat web to thickness ratio (**h/t**): 101.007



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