

# PRODUCT SUBMITTAL SPEC SHEET

Tel: 732-662-6200 • Fax: 732-548-6036 2960 Woodbridge Avenue • Edison, NJ 08837 www.buysuperstud.com

### **Building Products, Inc.**

Product Category: Structural Metal Stud Framing: Specification Section 05 40 00

Available Coatings: G60 (standard); or G90 Yield Strength: 33 ksi

**Product Name: 6DT18** AISI Nomenclature: 600T250-43

Product Description: 6 inch 18 gauge track member with 2-1/2 inch flanges

#### **Material and Shape Property Notes:**

Thickness: Design: 0.0451" • Minimum: 0.0428" • Designation: 43 mil • Equivalent Gauge: 18

Flange width: 2-1/2" • Web Depth: 6"

#### **SECTION PROPERTIES**

#### **Gross Section Properties:**

Cross Section Area (A): 0.4957 in<sup>2</sup> Member Weight: 1.685 pounds per foot Moment of Inertia, strong axis (Ix): 2.916 in<sup>4</sup> Radius of Gyration, strong axis ( $\mathbf{R}_{\mathbf{x}}$ ): 2.425 in. Moment of Inertia, weak axis (I<sub>v</sub>): 0.303 in<sup>4</sup> Radius of Gyration, weak axis ( $\mathbf{R}_{\mathbf{v}}$ ): 0.781 in.

#### Effective Section Properties:[1]

Effective Section Modulus (Sx eff): 0.946 in<sup>3</sup> Allowable Bending Moment (Ma): 11.144 inch-kips

Gross Allowable Shear (Va): 1.377 kips

#### **Torsional Properties:**

St. Venant Torsional Constant (J x 1000): 0.336 in4

Warping Constant (C<sub>w</sub>): 1.974 in<sup>6</sup> Polar Radius of Gyration (Ro): 2.929 in Distance from shear center (X<sub>o</sub>): -1.4458 in

Beta ( $\beta$ ): 0.7565 Flat web to thickness ratio (h/t): 128

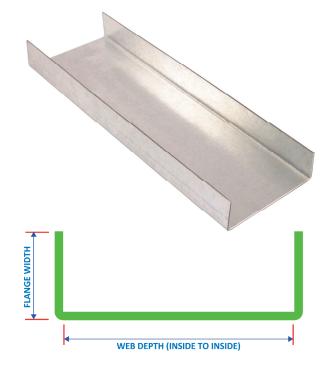
#### **CODES & STANDARDS**

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 3<sup>rd</sup> 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 \$100).

## The Super Stud Building Products Family of Companies









