

PRODUCT SUBMITTAL SPEC SHEET

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

Available Coatings: G60 (standard), G90. Yield Strength: 33 ksi

Product Name: 10SSJ20 AISI Nomenclature: 1000S162-33

Product Description: 10 inch deep 20 gauge stud member with 1-5/8" flanges

Material and Shape Property Notes:

Thickness: Design: 0.0346" ● Minimum: 0.0329" ●

Designation: 33 mil ● Gauge: 20 Flange width: 1-5/8" ● Web Depth: 10"

Nonstandard Member

Depth-to-thickness ratio exceeds AISI requirements for structural members.

SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 0.4827 in^2 Member Weight: 1.6417 pounds per foot Moment of Inertia, strong axis (**I**_x): 6.1986 in^4 Radius of Gyration, strong axis (**R**_x): 3.5835 in. Moment of Inertia, weak axis (**I**_y): 0.1317 in^4 Radius of Gyration, weak axis (**R**_v): 0.5224 in.

Effective Section Properties:

Effective Moment of Inertia (I_{x eff}): 5.1808 in⁴ Effective Section Modulus (S_{x eff}): 0.8847 in³ Allowable Moment (M_a): 14.597 inch-kips Torsional Properties:

St. Venant Torsional Constant (J x 1000): 0.1926 in⁴

Warping Constant ($\mathbf{C_w}$): 2.5897 in⁶ Polar Radius of Gyration ($\mathbf{R_o}$): 3.7145 in Distance from shear center ($\mathbf{X_o}$): -0.8266 in

Beta: 0.9505 Flat web to thickness ratio (h/t): exceeds 260.



CODES & STANDARDS

Super Stud products comply with the applicable provisions of the following:

International Building Code (IBC) 2006 - 2021 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.







