

Area (in²)

Ix (in4)

Sx (in<sup>3</sup>)

Rx (in)

ly (in4)

Ry (in)

Ix (in3)

Sx (in<sup>3</sup>)

Ma (in-k)

Mad (in-k)

J x 1000 (in4)

Cw (in<sup>6</sup>)

Xo (in)

m (in)

Ro (in)

Beta

Va<sub>g</sub> (lb)
Va<sub>net</sub> (lb)

Weight (lb/ft)

# PRODUCT SUBMITTAL SHEET

0.388

1.32

3.199

0.800

2.873

0.073

0.435

3 004

0.606

10.01

8.53

474

379

0.155

0.957

-0.696

0.460

2.988

0.946

For more information or questions, please contact the technical department: technical@buysuperstud.com



## 800S137-331 (Standard Punch)

Product Description: 8" Stud STR 20GA (1-3/8" Flange, 33 mil)

Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	8 in.	Yield Strength, Fy	33 ksi
Flange Width	1.375 in.	Design Thickness	0.0346 in.
Lip Length	0.375 in.	Min. Steel Thickness	0.0329 in.

Total cross-sectional steel area

Moment of inertia about the x-axis

Section modulus about the x-axis

Radius of gyration about the x-axis

Moment of inertia about the y-axis

Radius of gyration about the y-axis

Effective moment of inertia (x-axis)

Effective section modulus (x-axis)

Allowable shear force in web

St. Venant torsional constant

Warping constant

Polar radius of gyration

Torsional Flexural Constant

Linear weight per foot

**GROSS PROPERTIES** 

**EFFECTIVE PROPERTIES** 

Allowable bending moment-effective section modulus

Allowable bending moment-distortional bucking

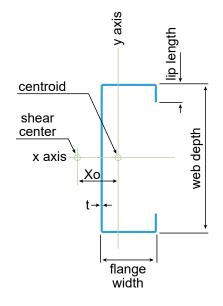
TORSIONAL PROPERTIES

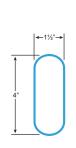
Distance from shear center to mid-plane of web

Allowable strong axis sheer at punchout

Distance from shear center to centroid

\*1 Web-height to thickness ration exceeds 200. Web Stiffeners are required at all support and concentrated loads.







First punchout is centered 12" from beginning of member; subsequent punchouts are 24" on center (o.c.). Center of last punchout is no less than 12" from end of member.

#### **CODES AND STANDARDS:**

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

- International Building Code (IBC): 2006–2024
- AISI S100-16 (2020) w/S2-20 (effective properties include cold-work strength increase)
- Sheet Steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized Coating: ASTM A653/A653M

#### **Structural Members:**

- ASTM C955; AISI S240
- Installed per ASTM C1007

### Additional Standards:

• AISI S201; AISI S202

3rd Party Certification

For LEED Letter requests please submit through: www.buysuperstud.com

NEW HAMPSHIRE FACILITY 12 TALLWOOD DRIVE BOW, NH 03304 P: 603-216-1573

MISSISSIPPI FACILITY 53 W L RUNNELS IND DR HATTIESBURG, MS 39401 P: 601-584-7550

NEW JERSEY FACILITY 2960 WOODBRIDGE AVE EDISON, NJ 08837 P: 732-662-6200