

# PRODUCT SUBMITTAL SHEET

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



## 800S200-331 (Standard Punch)

Product Description: 8" Stud STR 20GA (2" Flange, 33 mil)

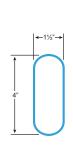
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES				
Web Depth	8 in.	Yield Strength, Fy	33 ksi	
Flange Width	2 in.	Design Thickness	0.0346 in.	
Lip Length	0.625 in.	Min. Steel Thickness	0.0329 in.	

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

	y axis	lip lenath	) -
shear center			pth
x axis Xc	<b>—</b>		web depth
t→		<u>_</u> _	
	flange width	→  e I	





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

**GROSS PROPERTIES** Area (in²) Total cross-sectional steel area 0.448 Weight (lb/ft) Linear weight per foot 1.52 4.097 Ix (in4) Moment of inertia about the x-axis Sx (in<sup>3</sup>) Section modulus about the x-axis 1.024 Rx (in) Radius of gyration about the x-axis 3.024 ly (in4) Moment of inertia about the y-axis 0.227 Ry (in) Radius of gyration about the y-axis 0.712 **EFFECTIVE PROPERTIES** Ix (in3) Effective moment of inertia (x-axis) 4 096 Sx (in<sup>3</sup>) Effective section modulus (x-axis) 0.792 Ma (in-k) Allowable bending moment-effective section modulus 13.06 Mad (in-k) Allowable bending moment-distortional bucking 11.76 Allowable shear force in web 474 Va<sub>e</sub> (lb) Va<sub>net</sub> (lb) Allowable strong axis sheer at punchout 379 TORSIONAL PROPERTIES J x 1000 (in<sup>4</sup>) St. Venant torsional constant 0.179 Cw (in<sup>6</sup>) Warping constant 2.971 Xo (in) Distance from shear center to centroid -1.288 m (in) Distance from shear center to mid-plane of web 0.817 Polar radius of gyration 3.363 Ro (in) 0.853 Torsional Flexural Constant Beta

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