

800S162-33¹ (Standard Punch)

Product Description: 8" Stud STR 20GA (1-5/8" Flange, 33 mil)

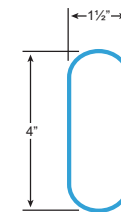
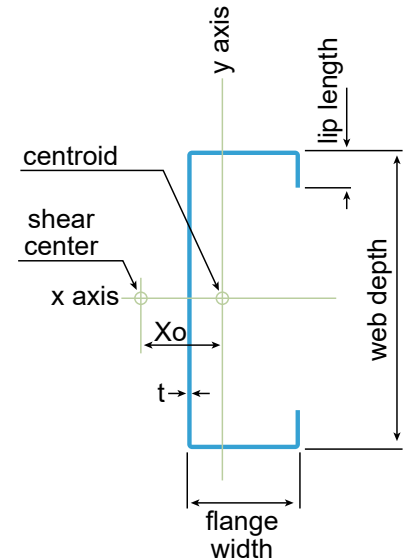
Coating: G60 (standard), G90 (special order)

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	8 in.	Yield Strength, Fy	33 ksi
Flange Width	1.625 in.	Design Thickness	0.0346 in.
Lip Length	0.500 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.*

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.413
Weight (lb/ft)	Linear weight per foot	1.41
I _x (in ⁴)	Moment of inertia about the x-axis	3.583
S _x (in ³)	Section modulus about the x-axis	0.896
R _x (in)	Radius of gyration about the x-axis	2.944
I _y (in ⁴)	Moment of inertia about the y-axis	0.125
R _y (in)	Radius of gyration about the y-axis	0.550
EFFECTIVE PROPERTIES		
I _x (in ³)	Effective moment of inertia (x-axis)	3.389
S _x (in ³)	Effective section modulus (x-axis)	0.694
M _a (in-k)	Allowable bending moment-effective section modulus	11.45
M _{ad} (in-k)	Allowable bending moment-distortional buckling	10.15
V _{a_g} (lb)	Allowable shear force in web	474
V _{a_{net}} (lb)	Allowable strong axis sheer at punchout	379
TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	3.767
C _w (in ⁶)	Warping constant	1.630
X _o (in)	Distance from shear center to centroid	-0.936
m (in)	Distance from shear center to mid-plane of web	0.607
R _o (in)	Polar radius of gyration	3.138
Beta	Torsional Flexural Constant	0.911



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/EB Metal US products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006–2024
- AISI S100-16 (2020) w/S2-20
- 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 or www.ebmetal.us

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