

800S162-118 (Standard Punch)

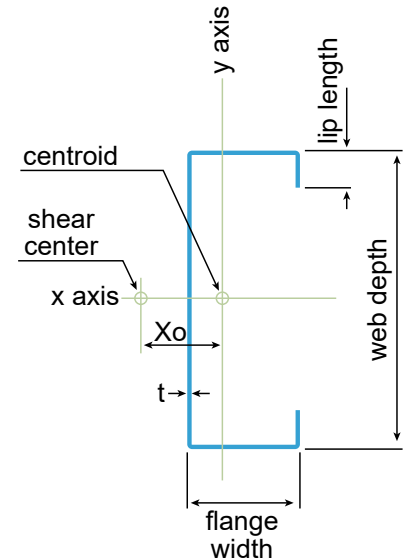
Product Description: 8" Stud 10GA (1-5/8" Flange, 118 mil)

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

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	8 in.	Yield Strength, Fy	50 ksi
Flange Width	1.625 in.	Design Thickness	0.1242 in.
Lip Length	0.500 in.	Min. Steel Thickness	0.1180 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	1.407
Weight (lb/ft)	Linear weight per foot	4.79
I _x (in ⁴)	Moment of inertia about the x-axis	11.509
S _x (in ³)	Section modulus about the x-axis	2.877
R _x (in)	Radius of gyration about the x-axis	2.860
I _y (in ⁴)	Moment of inertia about the y-axis	0.347
R _y (in)	Radius of gyration about the y-axis	0.496
EFFECTIVE PROPERTIES		
I _x (in ³)	Effective moment of inertia (x-axis)	11.511
S _x (in ³)	Effective section modulus (x-axis)	2.869
M _a (in-k)	Allowable bending moment-effective section modulus	104.97
M _{ad} (in-k)	Allowable bending moment-distortional buckling	100.87
V _g (lb)	Allowable shear force in web	16239
V _{net} (lb)	Allowable strong axis shear at punchout	7117
TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	7.234
C _w (in ⁶)	Warping constant	4.766
X _o (in)	Distance from shear center to centroid	-0.842
m (in)	Distance from shear center to mid-plane of web	0.556
R _o (in)	Polar radius of gyration	3.023
Beta	Torsional Flexural Constant	0.922



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