

400S125-30 (Standard Punch)

Product Description: 4" Stud DW 20GA (1 1/4" Leg, 30mil)

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

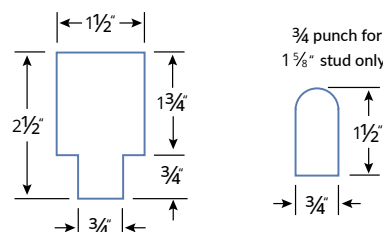
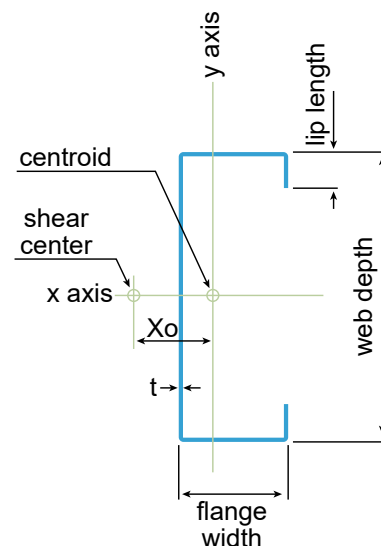
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	4 in.	Yield Strength, Fy	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0312 in.
Lip Length	0.188 in.	Min. Steel Thickness	0.0296 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.206
Weight (lb/ft)	Linear weight per foot	0.70
I _x (in ⁴)	Moment of inertia about the x-axis	0.481
S _x (in ³)	Section modulus about the x-axis	0.240
R _x (in)	Radius of gyration about the x-axis	1.529
I _y (in ⁴)	Moment of inertia about the y-axis	0.034
R _y (in)	Radius of gyration about the y-axis	0.409

EFFECTIVE PROPERTIES		
I _x (in ³)	Effective moment of inertia (x-axis)	0.474
S _x (in ³)	Effective section modulus (x-axis)	0.182
M _a (in-k)	Allowable bending moment-effective section modulus	3.60
M _{ad} (in-k)	Allowable bending moment-distortional buckling	3.16
V _a (lb)	Allowable shear force in web	715
V _a _{net} (lb)	Allowable strong axis sheer at punchout	484

TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	0.067
C _w (in ⁶)	Warping constant	0.108
X _o (in)	Distance from shear center to centroid	-0.742
m (in)	Distance from shear center to mid-plane of web	0.467
R _o (in)	Polar radius of gyration	1.748
Beta	Torsional Flexural Constant	0.820



Non-structural punchout 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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