

250S125-33 DW33 (Standard Punch)

Product Description: 2-1/2" Stud 20GA (1-1/4" Flange, 33mil)

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

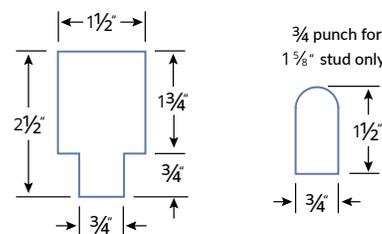
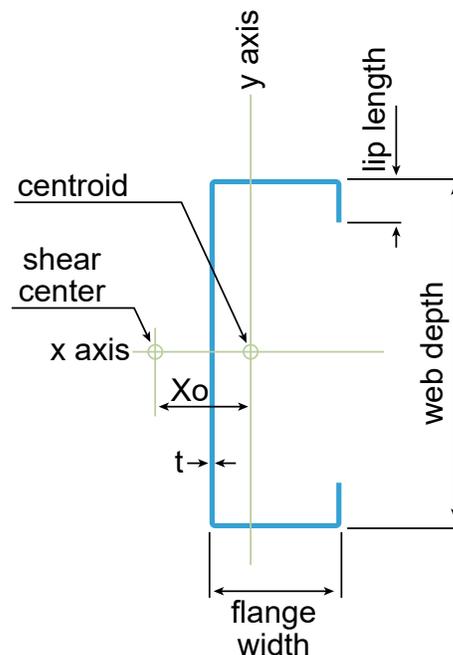
Specification Section: 09.22.16 (Non-Structural Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	2.5 in.	Yield Strength, Fy	33 ksi
Flange Width	1.25 in.	Design Thickness	0.0346 in.
Lip Length	0.188 in.	Min. Design Thickness	0.0329 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.176
Weight (lb/ft)	Linear weight per foot	0.60
I _x (in ⁴)	Moment of inertia about the x-axis	0.178
S _x (in ³)	Section modulus about the x-axis	0.142
R _x (in)	Radius of gyration about the x-axis	1.007
I _y (in ⁴)	Moment of inertia about the y-axis	0.033
R _y (in)	Radius of gyration about the y-axis	0.431

EFFECTIVE PROPERTIES		
I _x (in ³)	Effective moment of inertia (x-axis)	0.175
S _x (in ³)	Effective section modulus (x-axis)	0.124
M _a (in-k)	Allowable bending moment-effective section modulus	2.45
M _{ad} (in-k)	Allowable bending moment-distortional buckling	2.11
V _g (lb)	Allowable shear force in web	975
V _{net} (lb)	Allowable strong axis shear at punchout	399

TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	0.070
C _w (in ⁶)	Warping constant	0.040
X _o (in)	Distance from shear center to centroid	-0.886
m (in)	Distance from shear center to mid-plane of web	0.532
R _o (in)	Polar radius of gyration	1.409
Beta	Torsional Flexural Constant	0.604



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 products comply with the applicable provisions of the following:

- International Building Code (IBC): 2006 – 2024
- Complies with AISI S100-16 (2020) w/S2-20. Effective properties incorporate the strength increase from the cold work of forming
- Sheet steel: ASTM A1003/A1003M; ASTM A653/A653M
- Galvanized coating: ASTM A653/A653M or equivalent
- UL Designs: U419, V438, V489, V498, W433, W440
- Tested in accordance with ASTM E119; ANSI/UL 263
- Members and tolerances: ASTM C645; AISI S220, AISI S201, AISI S202
- Meets ASTM C754 when installed properly in structure

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