

1600S300-68¹ (Standard Punch)

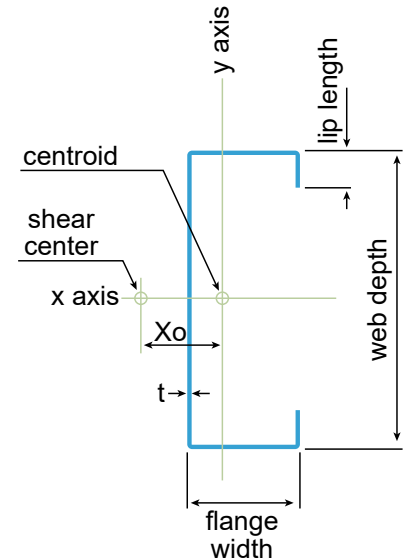
Product Description: 16" Stud 14GA (3" Flange, 68 mil)

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

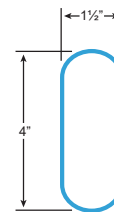
Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	16 in.	Yield Strength, F_y	50 ksi
Flange Width	3 in.	Design Thickness	0.0713 in.
Lip Length	0.625 in.	Min. Steel Thickness	0.0677 in.

^{*1} Web-height to thickness ratio exceeds 200. Web Stiffeners are required at all support and concentrated loads.



GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	1.620
Weight (lb/ft)	Linear weight per foot	5.51
I_x (in ⁴)	Moment of inertia about the x-axis	54.355
S_x (in ³)	Section modulus about the x-axis	6.794
R_x (in)	Radius of gyration about the x-axis	5.793
I_y (in ⁴)	Moment of inertia about the y-axis	1.411
R_y (in)	Radius of gyration about the y-axis	0.933
EFFECTIVE PROPERTIES		
I_x (in ³)	Effective moment of inertia (x-axis)	49.256
S_x (in ³)	Effective section modulus (x-axis)	4.143
M_a (in-k)	Allowable bending moment-effective section modulus	103.58
M_{ad} (in-k)	Allowable bending moment-distortional buckling	89.73
V_{ag} (lb)	Allowable shear force in web	2062
$V_{a_{net}}$ (lb)	Allowable strong axis shear at punchout	1649
TORSIONAL PROPERTIES		
$J \times 1000$ (in ⁴)	St. Venant torsional constant	2.745
C_w (in ⁶)	Warping constant	71.608
X_o (in)	Distance from shear center to centroid	-1.494
m (in)	Distance from shear center to mid-plane of web	0.981
R_o (in)	Polar radius of gyration	6.055
Beta	Torsional Flexural Constant	0.939



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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