

362S137-54 (50ksi) (Standard Punch)

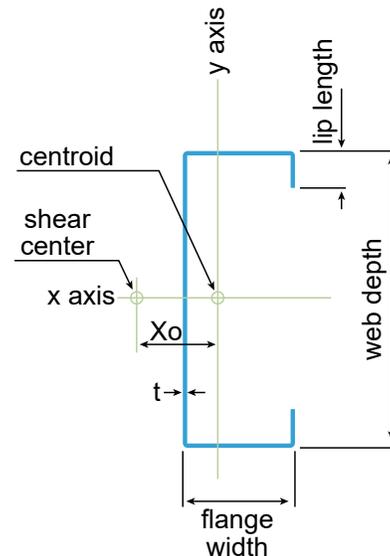
Product Description: 3-5/8" Stud 16GA (1-3/8" Flange, 54 mil)

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

Specification Section: 05.40.00 (Cold-Formed Metal Framing)

GEOMETRIC PROPERTIES			
Web Depth	3.625 in.	Yield Strength, Fy	50 ksi
Flange Width	1.375 in.	Design Thickness	0.0566 in.
Lip Length	0.375 in.	Min. Design Thickness	0.0538 in.

GROSS PROPERTIES		
Area (in ²)	Total cross-sectional steel area	0.379
Weight (lb/ft)	Linear weight per foot	1.29
I _x (in ⁴)	Moment of inertia about the x-axis	0.756
S _x (in ³)	Section modulus about the x-axis	0.417
R _x (in)	Radius of gyration about the x-axis	1.415
I _y (in ⁴)	Moment of inertia about the y-axis	0.091
R _y (in)	Radius of gyration about the y-axis	0.490
EFFECTIVE PROPERTIES		
I _x (in ³)	Effective moment of inertia (x-axis)	0.756
S _x (in ³)	Effective section modulus (x-axis)	0.392
M _a (in-k)	Allowable bending moment-effective section modulus	11.73
M _{ad} (in-k)	Allowable bending moment-distortional buckling	11.05
V _g (lb)	Allowable shear force in web	3372
V _{net} (lb)	Allowable strong axis shear at punchout	1016
TORSIONAL PROPERTIES		
J x 1000 (in ⁴)	St. Venant torsional constant	0.405
C _w (in ⁶)	Warping constant	0.251
X _o (in)	Distance from shear center to centroid	-0.978
m (in)	Distance from shear center to mid-plane of web	0.601
R _o (in)	Polar radius of gyration	1.786
Beta	Torsional Flexural Constant	0.700



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
- AISI S100-16 (2020) w/S2-20 (effective properties include cold-work strength increase)
- 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