

Structural Stud 362S250-54G90

Product Description 16 GA GALV 3.62" WEB x 2.50" FLANGE C-STUD .054 MIN GAUGE G90

Coating G90

Physical Properties

Design Thickness (in) 0.0566
 Minimum Thickness (in) 0.0538
 Web Width (in) 3.6250
 Flange Width (in) 2.5000
 Stiffening Lip (in) 0.6250
 Yield Strength (ksi) 50.0000



Gross Section Properties	
Cross Sectional Area (A)	0.535
Weight of Member (lb/ft)	1.82
Section Modulus (Sx)	0.668
Moment of Inertia (Ix)	1.210
Radius of Gyration (Rx)	1.504
Gross Moment of Inertia (Iy)	0.473
Gross Radium of Gyration (Ry)	0.940

Effective Section Properties	
Moment of Inertia for deflection (Ixe)	1.198
Section Modulus (Sxe)	0.514
Allowable Bending moment (Ma)	15.40
Allowable shear force in web (U)(Vag)	3372
Allowable shear at punch (Vanet)	1016

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.571
Warping constant (Cw)	1.506
Distance from shear center to neutral axis (Xo)	-2.184
Radii of gyration (Ro)	2.813
Torsional flexural constant (Beta)	0.397

Punch Out



ASTM & Code Standards

- AISI S100-12 & ICC ES ESR-4062
- Framing meets ASTM A1003, A653 & C955

Notes

1. Calculated properties are based on AISI S100-16, North American Specification for Design of Cold-Formed Steel Structural Members.
2. The centerline bend radius is based on inside corner radii shown in thickness chart.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A3.3.2.
4. Tabulated gross properties are based on full-unreduced cross section of the studs, away from punch outs.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.

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- MR Credit 2** • ConstructionWaste Management – Mill Steel Framing steel framing is 100% recyclable
- MR Credit 4** • Recycled Content – Mill Steel Framing products contain no less than 25.5% post-consumer and 6.8% pre-consumer recycled content
- MR Credit 5** • Regional Materials – Mill Steel Framing has manufacturing facilities in Indiana, Alabama & Texas
- V4 MR Credits** • Building Product Disclosure and Optimization EPD (1 point)
- Materials Ingredients (1 point) – Construction and Demolition Waste Management (1 point)

