

Structural Stud 362S250-97G90

Product Description 12 GA GALV 3.62" WEB X 2.50" FLANGE C-STUD .097 MIN GAUGE
Coating G-90
 G90

Physical Properties
 Design Thickness (in) 0.1017
 Minimum Thickness (in) 0.0966
 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)	0.927
Weight of Member (lb/ft)	3.16
Section Modulus (Sx)	1.119
Moment of Inertia (Ix)	2.028
Radius of Gyration (Rx)	1.479
Gross Moment of Inertia (Iy)	0.773
Gross Radium of Gyration (Ry)	0.913

Effective Section Properties	
Moment of Inertia for deflection (Ixe)	2.028
Section Modulus (Sxe)	1.056
Allowable Bending moment (Ma)	35.51
Allowable shear force in web (U)(Vag)	5943
Allowable shear at punch (Vanet)	875

Torsional Properties	
St. Venant torsion constant (J x 1000)	3.197
Warping constant (Cw)	2.452
Distance from shear center to neutral axis (Xo)	-2.126
Radii of gyration (Ro)	2.746
Torsional flexural constant (Beta)	0.401

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)

