

Structural Stud 600S162-97G90

Product Description 12 GA GALV 6.00" WEB X 1.62" FLANGE C-STUD .097 MIN GAUGE G-90

Coating G90

Physical Properties

Design Thickness (in) 0.1017
 Minimum Thickness (in) 0.0966
 Web Width (in) 6.0000
 Flange Width (in) 1.6250
 Stiffening Lip (in) 0.5000
 Yield Strength (ksi) 50.0000



Gross Section Properties

Cross Sectional Area (A)	0.966
Weight of Member (lb/ft)	3.28
Section Modulus (Sx)	1.600
Moment of Inertia (Ix)	4.799
Radius of Gyration (Rx)	2.229
Gross Moment of Inertia (Iy)	0.283
Gross Radium of Gyration (Ry)	0.542

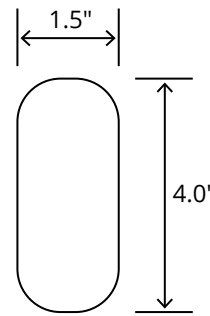
Effective Section Properties

Moment of Inertia for deflection (Ixe)	4.798
Section Modulus (Sxe)	1.599
Allowable Bending moment (Ma)	56.73
Allowable shear force in web (U)(Vag)	10472
Allowable shear at punch (Vanet)	3806

Torsional Properties

St. Venant torsion constant (J x 1000)	3.329
Warping constant (Cw)	2.153
Distance from shear center to neutral axis (Xo)	-0.997
Radii of gyration (Ro)	2.501
Torsional flexural constant (Beta)	0.841

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.

Mill Steel Framing LEED Green Credits

- 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)

