

Structural Stud 600S200-97G90

Product Description 12 GA GALV 6.00" WEB X 2.00" 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)	2.0000
Stiffening Lip (in)	0.6250
Yield Strength (ksi)	50.0000



Gross Section Properties

Cross Sectional Area (A)	1.067
Weight of Member (lb/ft)	3.63
Section Modulus (Sx)	1.871
Moment of Inertia (Ix)	5.614
Radius of Gyration (Rx)	2.293
Gross Moment of Inertia (Iy)	0.530
Gross Radius of Gyration (Ry)	0.705

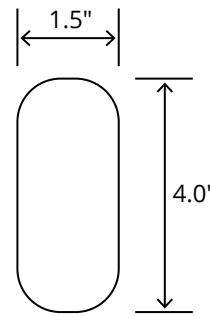
Effective Section Properties

Moment of Inertia for deflection (Ixe)	5.613
Section Modulus (Sxe)	1.871
Allowable Bending moment (Ma)	64.54
Allowable shear force in web (U)(Vag)	10472
Allowable shear at punch (Vanet)	3806

Torsional Properties

St. Venant torsion constant (J x 1000)	3.679
Warping constant (Cw)	4.080
Distance from shear center to neutral axis (Xo)	-1.378
Radii of gyration (Ro)	2.767
Torsional flexural constant (Beta)	0.752

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

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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 |
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