

Structural Stud 600S250-97G90

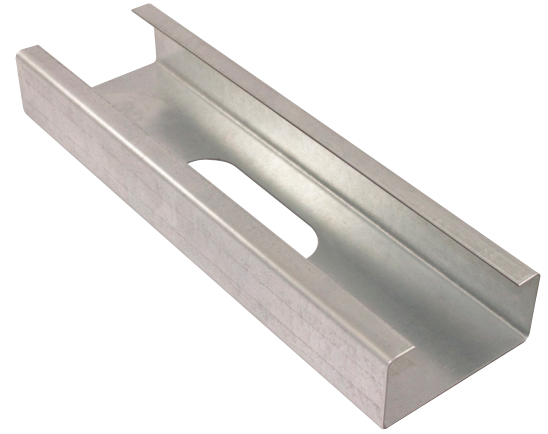
Product Description 12 GA GALV 6.00" WEB X 2.50"
FLANGE C-STUD .097 MIN
GAUGE G-90

Coating

G90

Physical Properties

Design Thickness (in)	0.1017
Minimum Thickness (in)	0.0966
Web Width (in)	6.0000
Flange Width (in)	2.5000
Stiffening Lip (in)	0.6250
Yield Strength (ksi)	50.0000



Gross Section Properties

Cross Sectional Area (A)	1.169
Weight of Member (lb/ft)	3.98
Section Modulus (Sx)	2.166
Moment of Inertia (Ix)	6.498
Radius of Gyration (Rx)	2.358
Gross Moment of Inertia (Iy)	0.923
Gross Radius of Gyration (Ry)	0.889

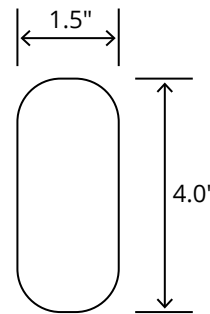
Effective Section Properties

Moment of Inertia for deflection (Ixe)	6.497
Section Modulus (Sxe)	2.063
Allowable Bending moment (Ma)	69.39
Allowable shear force in web (U)(Vag)	10472
Allowable shear at punch (Vanet)	3806

Torsional Properties

St. Venant torsion constant (J x 1000)	4.030
Warping constant (Cw)	6.947
Distance from shear center to neutral axis (Xo)	-1.803
Radii of gyration (Ro)	3.099
Torsional flexural constant (Beta)	0.661

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
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• Materials Ingredients (1 point) – Construction and Demolition Waste Management (1 point)

