

Structural Stud 600S162-68G90

Product Description

14 GA GALV 6.00" WEB x 1.62"
FLANGE C-STUD .068 MIN GAUGE
G90
G90

Coating

Physical Properties

Design Thickness (in)	0.0713
Minimum Thickness (in)	0.0677
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)	0.693
Weight of Member (lb/ft)	2.36
Section Modulus (Sx)	1.175
Moment of Inertia (Ix)	3.526
Radius of Gyration (Rx)	2.256
Gross Moment of Inertia (Iy)	0.218
Gross Radius of Gyration (Ry)	0.561

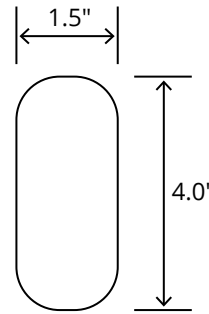
Effective Section Properties

Moment of Inertia for deflection (Ixe)	3.525
Section Modulus (Sxe)	1.164
Allowable Bending moment (Ma)	39.47
Allowable shear force in web (U)(Vag)	5350
Allowable shear at punch (Vanet)	2879

Torsional Properties

St. Venant torsion constant (J x 1000)	1.174
Warping constant (Cw)	1.626
Distance from shear center to neutral axis (Xo)	-1.032
Radii of gyration (Ro)	2.543
Torsional flexural constant (Beta)	0.835

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)

