

Structural Stud 800S250-68

Product Description 14 GA GALV 8.00" WEB x 2.50" FLANGE C-STUD .068 MIN GAUGE

Coating G60

Physical Properties

Design Thickness (in) 0.0713
 Minimum Thickness (in) 0.0677
 Web Width (in) 8.0000
 Flange Width (in) 2.5000
 Stiffening Lip (in) 0.6250
 Yield Strength (ksi) 50.0000



Gross Section Properties

Cross Sectional Area (A)	0.978
Weight of Member (lb/ft)	3.33
Section Modulus (Sx)	2.316
Moment of Inertia (Ix)	9.263
Radius of Gyration (Rx)	3.077
Gross Moment of Inertia (Iy)	0.752
Gross Radium of Gyration (Ry)	0.877

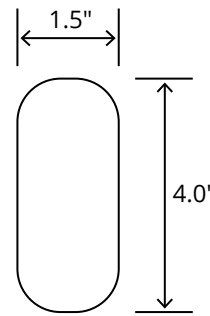
Effective Section Properties

Moment of Inertia for deflection (Ixe)	9.241
Section Modulus (Sxe)	2.059
Allowable Bending moment (Ma)	61.65
Allowable shear force in web (U)(Vag)	4221
Allowable shear at punch (Vanet)	3367

Torsional Properties

St. Venant torsion constant (J x 1000)	1.658
Warping constant (Cw)	9.652
Distance from shear center to neutral axis (Xo)	-1.644
Radii of gyration (Ro)	3.597
Torsional flexural constant (Beta)	0.791

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)

