

www.millsteelframing.com | 2905 Lucerne Dr. SE Grand Rapids, MI 49546 | (812) 670-4195

Structural Stud 250S162-54

Product Description 16 GA GALV 2.50" WEB x 1.62"

FLANGE C-STUD .054 MIN

GAUGE

Coating G60

Physical Properties

Design Thickness (in)0.0566Minimum Thickness (in)0.0538Web Width (in)2.5000Flange Width (in)1.6250Stiffening Lip (in)0.5000Yield Strength (ksi)50.0000

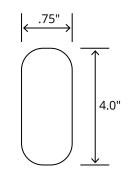


Gross Section Properties	
Cross Sectional Area (A)	0.358
Weight of Member (lb/ft)	1.22
Section Modulus (Sx)	0.296
Moment of Inertia (lx)	0.370
Radius of Gyration (Rx)	1.016
Gross Moment of Inertia (ly)	0.135
Gross Radium of Gyration (Ry)	0.613

Effective Section Properties	
Moment of Inertia for deflection (Ixe)	0.370
Section Modulus (Sxe)	0.284
Allowable Bending moment (Ma)	9.42
Allowable shear force in web (U)(Vag)	2353
Allowable shear at punch (Vanet)	565

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.383
Warping constant (Cw)	0.223
Distance from shear center to neutral axis (Xo)	-1.443
Radii of gyration (Ro)	1.868
Torsional flexural constant (Beta)	0.404

Punch Out



ASTM & Code Standards

- AISI S100-12 & ICC ES ESR-4062
- Framing meets ASTM A1003, A653 & C955

Notes

- 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 MR Credit 4

- ConstructionWaste Management Mill Steel Framing steel framing is 100% recyclable
- 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)

