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Structural Stud 250S162-33

Product Description 20 GA GALV 2.50" WEB x 1.62"

FLANGE C-STUD .033 MIN

GAUGE

Coating G60

Physical Properties

Design Thickness (in)0.0346Minimum Thickness (in)0.0329Web Width (in)2.5000Flange Width (in)1.6250Stiffening Lip (in)0.5000Yield Strength (ksi)33.0000

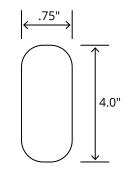


Gross Section Properties	
Cross Sectional Area (A)	0.223
Weight of Member (lb/ft)	0.76
Section Modulus (Sx)	0.188
Moment of Inertia (lx)	0.235
Radius of Gyration (Rx)	1.027
Gross Moment of Inertia (ly)	0.087
Gross Radium of Gyration (Ry)	0.624

Effective Section Properties	
Moment of Inertia for deflection (lxe)	0.235
Section Modulus (Sxe)	0.180
Allowable Bending moment (Ma)	3.55
Allowable shear force in web (U)(Vag)	975
Allowable shear at punch (Vanet)	399

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.089
Warping constant (Cw)	0.146
Distance from shear center to neutral axis (Xo)	-1.470
Radii of gyration (Ro)	1.898
Torsional flexural constant (Beta)	0.401

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)

