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Structural Stud 250S137-43G90

Product Description 18 GA GALV 2.50" WEB X 1.37"

FLANGE C-STUD .043 MIN GAUGE

G90

Coating G90

Physical Properties

Design Thickness (in)0.0451Minimum Thickness (in)0.0428Web Width (in)2.5000Flange Width (in)1.3750Stiffening Lip (in)0.3750Yield Strength (ksi)33.0000

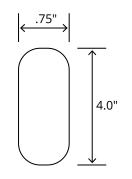


Gross Section Properties	
Cross Sectional Area (A)	0.255
Weight of Member (lb/ft)	0.87
Section Modulus (Sx)	0.208
Moment of Inertia (lx)	0.261
Radius of Gyration (Rx)	1.011
Gross Moment of Inertia (ly)	0.067
Gross Radium of Gyration (Ry)	0.511

Effective Section Properties	
Moment of Inertia for deflection (lxe)	0.261
Section Modulus (Sxe)	0.205
Allowable Bending moment (Ma)	4.53
Allowable shear force in web (U)(Vag)	1265
Allowable shear at punch (Vanet)	394

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.173
Warping constant (Cw)	0.096
Distance from shear center to neutral axis (Xo)	-1.129
Radii of gyration (Ro)	1.599
Torsional flexural constant (Beta)	0.501

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)

