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

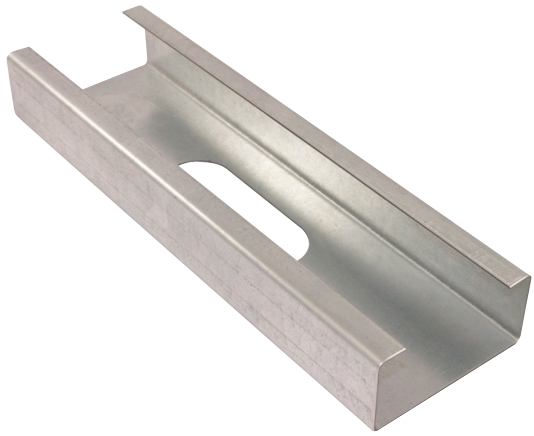
Structural Stud 600S250-43

Product Description 18 GA GALV 6.00" WEB x 2.50" FLANGE C-STUD .043 MIN GAUGE

Coating G60

Physical Properties

Design Thickness (in)	0.0451
Minimum Thickness (in)	0.0428
Web Width (in)	6.0000
Flange Width (in)	2.5000
Stiffening Lip (in)	0.6250
Yield Strength (ksi)	33.0000

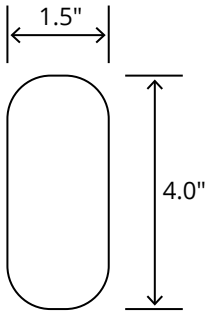


Gross Section Properties	
Cross Sectional Area (A)	0.537
Weight of Member (lb/ft)	1.83
Section Modulus (Sx)	1.028
Moment of Inertia (Ix)	3.083
Radius of Gyration (Rx)	2.396
Gross Moment of Inertia (Iy)	0.458
Gross Radium of Gyration (Ry)	0.923

Effective Section Properties	
Moment of Inertia for deflection (Ixe)	3.083
Section Modulus (Sxe)	0.918
Allowable Bending moment (Ma)	18.14
Allowable shear force in web (U)(Vag)	1416
Allowable shear at punch (Vanet)	1240

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.364
Warping constant (Cw)	3.411
Distance from shear center to neutral axis (Xo)	-1.874
Radii of gyration (Ro)	3.179
Torsional flexural constant (Beta)	0.652

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)