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Structural Stud

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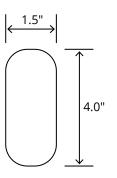
Product Description	16 GA GALV 10.00" WEB x 2.50" FLANGE C-STUD .054 MIN GAUGE
Coating	G60
Physical Properties	
Design Thickness (in)	0.0566
Minimum Thickness (in)	0.0538
Web Width (in)	10.0000
Flange Width (in)	2.5000
Stiffening Lip (in)	0.6250
Yield Strength (ksi)	50.0000

Gross Section Properties	
Cross Sectional Area (A)	0.896
Weight of Member (lb/ft)	3.05
Section Modulus (Sx)	2.536
Moment of Inertia (lx)	12.681
Radius of Gyration (Rx)	3.762
Gross Moment of Inertia (ly)	0.653
Gross Radium of Gyration (Ry)	0.854

Effective Section Properties	
Moment of Inertia for deflection (lxe)	12.661
Section Modulus (Sxe)	1.879
Allowable Bending moment (Ma)	56.27
Allowable shear force in web (U)(Vag)	1661
Allowable shear at punch (Vanet)	1661

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.957
Warping constant (Cw)	12.922
Distance from shear center to neutral axis (Xo)	-1.505
Radii of gyration (Ro)	4.141
Torsional flexural constant (Beta)	0.868

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 fullunreduced 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)

