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Structural Stud

250S162-4	3
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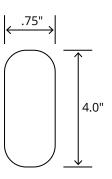
Product Description	18 GA GALV 2.50" WEB x 1.62" FLANGE C-STUD .043 MIN GAUGE
Coating	G60
Physical Properties	
Design Thickness (in)	0.0451
Minimum Thickness (in)	0.0428
Web Width (in)	2.5000
Flange Width (in)	1.6250
Stiffening Lip (in)	0.5000
Yield Strength (ksi)	33.0000

Gross Section Properties	
Cross Sectional Area (A)	0.289
Weight of Member (lb/ft)	0.98
Section Modulus (Sx)	0.242
Moment of Inertia (lx)	0.302
Radius of Gyration (Rx)	1.022
Gross Moment of Inertia (ly)	0.111
Gross Radium of Gyration (Ry)	0.620

Effective Section Properties	
Moment of Inertia for deflection (lxe)	0.302
Section Modulus (Sxe)	0.240
Allowable Bending moment (Ma)	5.22
Allowable shear force in web (U)(Vag)	1265
Allowable shear at punch (Vanet)	394

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.196
Warping constant (Cw)	0.184
Distance from shear center to neutral axis (Xo)	-1.457
Radii of gyration (Ro)	1.885
Torsional flexural constant (Beta)	0.402

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)

