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# **Structural Stud**

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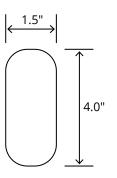
Product Description	14 GA GALV 10.00" WEB x 2.50" FLANGE C-STUD    .068 MIN GAUGE
Coating	G60
Physical Properties	
Design Thickness (in)	0.0713
Minimum Thickness (in)	0.0677
Web Width (in)	10.0000
Flange Width (in)	2.5000
Stiffening Lip (in)	0.6250
Yield Strength (ksi)	50.0000

Gross Section Properties		
Cross Sectional Area (A)	1.121	
Weight of Member (lb/ft)	3.81	
Section Modulus (Sx)	3.151	
Moment of Inertia (lx)	15.756	
Radius of Gyration (Rx)	3.749	
Gross Moment of Inertia (ly)	0.799	
Gross Radium of Gyration (Ry)	0.844	

Effective Section Properties	
Moment of Inertia for deflection (lxe)	15.742
Section Modulus (Sxe)	2.769
Allowable Bending moment (Ma)	82.90
Allowable shear force in web (U)(Vag)	3345
Allowable shear at punch (Vanet)	3345

Torsional Properties		
St. Venant torsion constant (J x 1000)	1.899	
Warping constant (Cw)	15.909	
Distance from shear center to neutral axis (Xo)	-1.488	
Radii of gyration (Ro)	4.121	
Torsional flexural constant (Beta)	0.870	

#### **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	<ul> <li>ConstructionWaste Management – Mill Steel Framing steel framing is 100% recyclable</li> </ul>
MR Credit 4	<ul> <li>Recycled Content – Mill Steel Framing products contain no less than 25.5% post-consumer</li> </ul>
	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)

