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# **Structural Stud**

**Product Description** 

3625200-97
12 GA GALV 3.62" WEB X 2.00"
FLANGE C-STUD .097 MIN

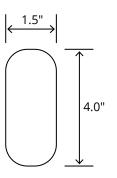
	FLANGE C-STUD GAUGE	.(
Coating	G60	
Physical Properties		
Design Thickness (in)	0.1017	
Minimum Thickness (in)	0.0966	
Web Width (in)	3.6250	
Flange Width (in)	2.0000	
Stiffening Lip (in)	0.6250	
Yield Strength (ksi)	50.0000	

Gross Section Properties		
Cross Sectional Area (A)	0.826	
Weight of Member (lb/ft)	2.81	
Section Modulus (Sx)	0.945	
Moment of Inertia (lx)	1.712	
Radius of Gyration (Rx)	1.440	
Gross Moment of Inertia (ly)	0.446	
Gross Radium of Gyration (Ry)	0.735	

Effective Section Properties		
Moment of Inertia for deflection (lxe)	1.712	
Section Modulus (Sxe) 0.92		
Allowable Bending moment (Ma)	32.04	
Allowable shear force in web (U)(Vag) 5943		
Allowable shear at punch (Vanet) 875		

Torsional Properties	
St. Venant torsion constant (J x 1000)	2.847
Warping constant (Cw)	1.441
Distance from shear center to neutral axis (Xo)	-1.658
Radii of gyration (Ro)	2.316
Torsional flexural constant (Beta)	0.487

#### **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	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)

