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# **Structural Stud**

600S1	62-43
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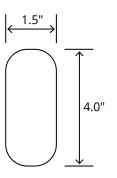
Product Description	18 GA GALV 6.00" WEB x 1.62" FLANGE C-STUD   .043 MIN GAUGE
Coating	G60
Physical Properties	
Design Thickness (in)	0.0451
Minimum Thickness (in)	0.0428
Web Width (in)	6.0000
Flange Width (in)	1.6250
Stiffening Lip (in)	0.5000
Yield Strength (ksi)	33.0000

Gross Section Properties	
Cross Sectional Area (A)	0.447
Weight of Member (lb/ft)	1.52
Section Modulus (Sx)	0.772
Moment of Inertia (lx)	2.316
Radius of Gyration (Rx)	2.277
Gross Moment of Inertia (ly)	0.148
Gross Radium of Gyration (Ry)	0.576

Effective Section Properties	
Moment of Inertia for deflection (lxe)	2.316
Section Modulus (Sxe)	0.767
Allowable Bending moment (Ma)	16.68
Allowable shear force in web (U)(Vag)	1416
Allowable shear at punch (Vanet)	1240

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.303
Warping constant (Cw)	1.095
Distance from shear center to neutral axis (Xo)	-1.062
Radii of gyration (Ro)	2.577
Torsional flexural constant (Beta)	0.830

### **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)

