

## Structural Stud 600S162-97

**Product Description** 12 GA GALV 6.00" WEB X 1.62" FLANGE C-STUD .097 MIN GAUGE

**Coating** G60

**Physical Properties**

Design Thickness (in)	0.1017
Minimum Thickness (in)	0.0966
Web Width (in)	6.0000
Flange Width (in)	1.6250
Stiffening Lip (in)	0.5000
Yield Strength (ksi)	50.0000



Gross Section Properties	
Cross Sectional Area (A)	0.966
Weight of Member (lb/ft)	3.28
Section Modulus (Sx)	1.600
Moment of Inertia (Ix)	4.799
Radius of Gyration (Rx)	2.229
Gross Moment of Inertia (Iy)	0.283
Gross Radium of Gyration (Ry)	0.542

Effective Section Properties	
Moment of Inertia for deflection (Ixe)	4.798
Section Modulus (Sxe)	1.599
Allowable Bending moment (Ma)	56.73
Allowable shear force in web (U)(Vag)	10472
Allowable shear at punch (Vanet)	3806

Torsional Properties	
St. Venant torsion constant (J x 1000)	3.329
Warping constant (Cw)	2.153
Distance from shear center to neutral axis (Xo)	-0.997
Radii of gyration (Ro)	2.501
Torsional flexural constant (Beta)	0.841

### 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 full-unreduced 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)

