

## Structural Stud 600S200-33G90

**Product Description** 20 GA GALV 6.00" WEB x 2.00" FLANGE C-STUD .033 MIN GAUGE G90

**Coating** G90

**Physical Properties**

Design Thickness (in) 0.0346  
 Minimum Thickness (in) 0.0329  
 Web Width (in) 6.0000  
 Flange Width (in) 2.0000  
 Stiffening Lip (in) 0.6250  
 Yield Strength (ksi) 33.0000



Gross Section Properties	
Cross Sectional Area (A)	0.379
Weight of Member (lb/ft)	1.29
Section Modulus (Sx)	0.692
Moment of Inertia (Ix)	2.076
Radius of Gyration (Rx)	2.340
Gross Moment of Inertia (Iy)	0.209
Gross Radium of Gyration (Ry)	0.743

Effective Section Properties	
Moment of Inertia for deflection (Ixe)	2.058
Section Modulus (Sxe)	0.621
Allowable Bending moment (Ma)	12.28
Allowable shear force in web (U)(Vag)	638
Allowable shear at punch (Vanet)	638

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.151
Warping constant (Cw)	1.593
Distance from shear center to neutral axis (Xo)	-1.457
Radii of gyration (Ro)	2.855
Torsional flexural constant (Beta)	0.740

### 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)

