

## Structural Stud 362S250-68G90

**Product Description** 14 GA GALV 3.62" WEB x 2.50" FLANGE C-STUD .068 MIN GAUGE G90

**Coating** G90

**Physical Properties**

Design Thickness (in) 0.0713  
 Minimum Thickness (in) 0.0677  
 Web Width (in) 3.6250  
 Flange Width (in) 2.5000  
 Stiffening Lip (in) 0.6250  
 Yield Strength (ksi) 50.0000



Gross Section Properties	
Cross Sectional Area (A)	0.666
Weight of Member (lb/ft)	2.27
Section Modulus (Sx)	0.823
Moment of Inertia (Ix)	1.491
Radius of Gyration (Rx)	1.496
Gross Moment of Inertia (Iy)	0.578
Gross Radium of Gyration (Ry)	0.931

Effective Section Properties	
Moment of Inertia for deflection (Ixe)	1.491
Section Modulus (Sxe)	0.689
Allowable Bending moment (Ma)	20.64
Allowable shear force in web (U)(Vag)	4370
Allowable shear at punch (Vanet)	1004

Torsional Properties	
St. Venant torsion constant (J x 1000)	1.129
Warping constant (Cw)	1.837
Distance from shear center to neutral axis (Xo)	-2.165
Radii of gyration (Ro)	2.791
Torsional flexural constant (Beta)	0.398

### 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)

