

## Structural Stud 362S137-33G90

**Product Description** 20 GA GALV 3.62" WEB x 1.37" FLANGE C-STUD .033 MIN GAUGE G90

**Coating** G90

**Physical Properties**

Design Thickness (in)	0.0346
Minimum Thickness (in)	0.0329
Web Width (in)	3.6250
Flange Width (in)	1.3750
Stiffening Lip (in)	0.3750
Yield Strength (ksi)	33.0000



### Gross Section Properties

Cross Sectional Area (A)	0.236
Weight of Member (lb/ft)	0.80
Section Modulus (Sx)	0.264
Moment of Inertia (Ix)	0.479
Radius of Gyration (Rx)	1.424
Gross Moment of Inertia (Iy)	0.059
Gross Radium of Gyration (Ry)	0.501

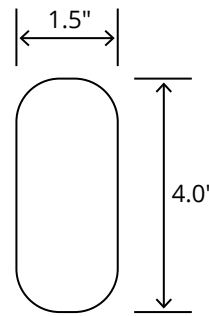
### Effective Section Properties

Moment of Inertia for deflection (Ixe)	0.479
Section Modulus (Sxe)	0.232
Allowable Bending moment (Ma)	4.59
Allowable shear force in web (U)(Vag)	1024
Allowable shear at punch (Vanet)	521

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.094
Warping constant (Cw)	0.165
Distance from shear center to neutral axis (Xo)	-1.003
Radii of gyration (Ro)	1.813
Torsional flexural constant (Beta)	0.694

### 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)

