

Structural Stud 362S162-33G90

Product Description

20 GA GALV 3.62" WEB x 1.62"
FLANGE C-STUD .033 MIN GAUGE
G90
G90

Coating

Physical Properties

Design Thickness (in)	0.0346
Minimum Thickness (in)	0.0329
Web Width (in)	3.6250
Flange Width (in)	1.6250
Stiffening Lip (in)	0.5000
Yield Strength (ksi)	33.0000



Gross Section Properties

Cross Sectional Area (A)	0.262
Weight of Member (lb/ft)	0.89
Section Modulus (Sx)	0.304
Moment of Inertia (Ix)	0.551
Radius of Gyration (Rx)	1.450
Gross Moment of Inertia (Iy)	0.099
Gross Radius of Gyration (Ry)	0.616

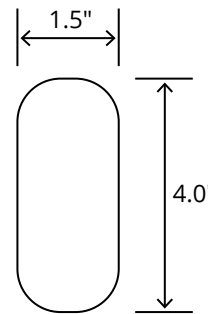
Effective Section Properties

Moment of Inertia for deflection (Ixe)	0.551
Section Modulus (Sxe)	0.268
Allowable Bending moment (Ma)	5.29
Allowable shear force in web (U)(Vag)	1024
Allowable shear at punch (Vanet)	521

Torsional Properties

St. Venant torsion constant (J x 1000)	0.105
Warping constant (Cw)	0.297
Distance from shear center to neutral axis (Xo)	-1.308
Radii of gyration (Ro)	2.048
Torsional flexural constant (Beta)	0.592

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)

