

Structural Stud 362S162-97

Product Description 12 GA GALV 3.62" 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)	3.6250
Flange Width (in)	1.6250
Stiffening Lip (in)	0.5000
Yield Strength (ksi)	50.0000



Gross Section Properties	
Cross Sectional Area (A)	0.724
Weight of Member (lb/ft)	2.46
Section Modulus (Sx)	0.792
Moment of Inertia (Ix)	1.436
Radius of Gyration (Rx)	1.408
Gross Moment of Inertia (Iy)	0.241
Gross Radium of Gyration (Ry)	0.577

Effective Section Properties	
Moment of Inertia for deflection (Ixe)	1.436
Section Modulus (Sxe)	0.776
Allowable Bending moment (Ma)	27.54
Allowable shear force in web (U)(Vag)	5943
Allowable shear at punch (Vanet)	875

Torsional Properties	
St. Venant torsion constant (J x 1000)	2.496
Warping constant (Cw)	0.723
Distance from shear center to neutral axis (Xo)	-1.226
Radii of gyration (Ro)	1.954
Torsional flexural constant (Beta)	0.606

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) |

