

Structural Stud 1000S162-97

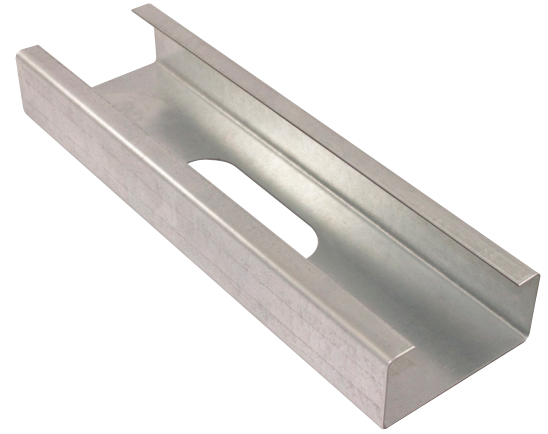
Product Description

12 GA GALV 10.00" WEB X 1.62"
FLANGE C-STUD .097 MIN
GAUGE
G60

Coating

Physical Properties

Design Thickness (in)	0.1017
Minimum Thickness (in)	0.0966
Web Width (in)	10.0000
Flange Width (in)	1.6250
Stiffening Lip (in)	0.5000
Yield Strength (ksi)	50.0000



Gross Section Properties

Cross Sectional Area (A)	1.372
Weight of Member (lb/ft)	4.67
Section Modulus (Sx)	3.395
Moment of Inertia (Ix)	16.974
Radius of Gyration (Rx)	3.517
Gross Moment of Inertia (Iy)	0.320
Gross Radium of Gyration (Ry)	0.483

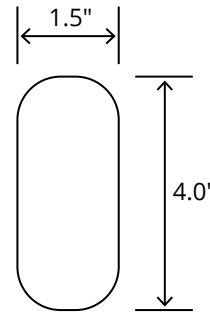
Effective Section Properties

Moment of Inertia for deflection (Ixe)	16.968
Section Modulus (Sxe)	3.270
Allowable Bending moment (Ma)	97.90
Allowable shear force in web (U)(Vag)	9864
Allowable shear at punch (Vanet)	7177

Torsional Properties

St. Venant torsion constant (J x 1000)	4.731
Warping constant (Cw)	6.827
Distance from shear center to neutral axis (Xo)	-0.768
Radii of gyration (Ro)	3.632
Torsional flexural constant (Beta)	0.955

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.

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- MR Credit 2** • ConstructionWaste Management – Mill Steel Framing steel framing is 100% recyclable
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- MR Credit 5** • Regional Materials – Mill Steel Framing has manufacturing facilities in Indiana, Alabama & Texas
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• Materials Ingredients (1 point) – Construction and Demolition Waste Management (1 point)

