

Structural Stud 1000S162-54

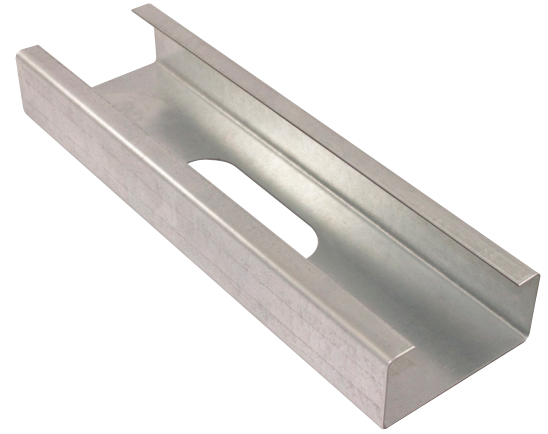
Product Description

16 GA GALV 10.00" WEB x 1.62"
FLANGE C-STUD .054 MIN
GAUGE
G60

Coating

Physical Properties

Design Thickness (in)	0.0566
Minimum Thickness (in)	0.0538
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)	0.783
Weight of Member (lb/ft)	2.66
Section Modulus (Sx)	1.991
Moment of Inertia (Ix)	9.954
Radius of Gyration (Rx)	3.566
Gross Moment of Inertia (Iy)	0.204
Gross Radium of Gyration (Ry)	0.511

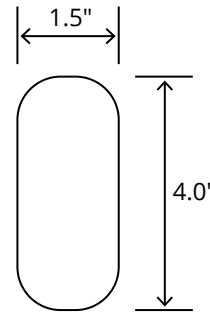
Effective Section Properties

Moment of Inertia for deflection (Ixe)	9.391
Section Modulus (Sxe)	1.572
Allowable Bending moment (Ma)	47.07
Allowable shear force in web (U)(Vag)	1661
Allowable shear at punch (Vanet)	1661

Torsional Properties

St. Venant torsion constant (J x 1000)	0.836
Warping constant (Cw)	4.198
Distance from shear center to neutral axis (Xo)	-0.812
Radii of gyration (Ro)	3.693
Torsional flexural constant (Beta)	0.952

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
- 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)

