

Structural Stud 1200S250-54

Product Description

16 GA GALV 12.00" WEB x 2.50"
FLANGE C-STUD .054 MIN
GAUGE
G60

Coating

Physical Properties

Design Thickness (in)	0.0566
Minimum Thickness (in)	0.0538
Web Width (in)	12.0000
Flange Width (in)	2.5000
Stiffening Lip (in)	0.6250
Yield Strength (ksi)	50.0000



Gross Section Properties

Cross Sectional Area (A)	1.009
Weight of Member (lb/ft)	3.43
Section Modulus (Sx)	3.281
Moment of Inertia (Ix)	19.687
Radius of Gyration (Rx)	4.417
Gross Moment of Inertia (Iy)	0.683
Gross Radius of Gyration (Ry)	0.823

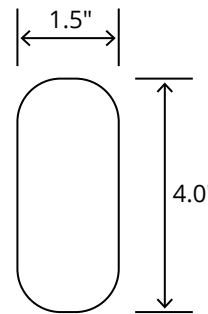
Effective Section Properties

Moment of Inertia for deflection (Ixe)	18.437
Section Modulus (Sxe)	2.149
Allowable Bending moment (Ma)	64.34
Allowable shear force in web (U)(Vag)	1377
Allowable shear at punch (Vanet)	1377

Torsional Properties

St. Venant torsion constant (J x 1000)	1.078
Warping constant (Cw)	19.505
Distance from shear center to neutral axis (Xo)	-1.378
Radii of gyration (Ro)	4.699
Torsional flexural constant (Beta)	0.914

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)

