

www.millsteelframing.com │ 2905 Lucerne Dr. SE Grand Rapids, MI 49546 │ (812) 670-4195

Structural Stud 400S250-68

Product Description 14 GA GALV 4" WEB X 2.50"

FLANGE C-STUD .068 MIN

GAUGE

Coating G60

Physical Properties

 Design Thickness (in)
 0.0713

 Minimum Thickness (in)
 0.0677

 Web Width (in)
 4.0000

 Flange Width (in)
 2.5000

 Stiffening Lip (in)
 0.6250

 Yield Strength (ksi)
 50.0000

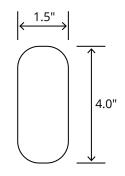


Gross Section Properties	
Cross Sectional Area (A)	0.693
Weight of Member (lb/ft)	2.36
Section Modulus (Sx)	0.932
Moment of Inertia (lx)	1.865
Radius of Gyration (Rx)	1.640
Gross Moment of Inertia (ly)	0.599
Gross Radium of Gyration (Ry)	0.929

Effective Section Properties	
Moment of Inertia for deflection (lxe)	1.865
Section Modulus (Sxe)	0.775
Allowable Bending moment (Ma)	23.20
Allowable shear force in web (U)(Vag)	4871
Allowable shear at punch (Vanet)	1356

Torsional Properties	
St. Venant torsion constant (J x 1000)	1.174
Warping constant (Cw)	2.225
Distance from shear center to neutral axis (Xo)	-2.105
Radii of gyration (Ro)	2.826
Torsional flexural constant (Beta)	0.445

Punch Out



ASTM & Code Standards

- AISI S100-12 & ICC ES ESR-4062
- Framing meets ASTM A1003, A653 & C955

Notes

- 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 fullunreduced 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 MR Credit 4

- ConstructionWaste Management Mill Steel Framing steel framing is 100% recyclable
- 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)

