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Structural Stud

400S200-68

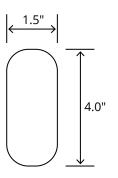
Product Description	14 GA GALV 4" WEB X 2.00" FLANGE C-STUD .068 MIN GAUGE
Coating	G60
Physical Properties	
Design Thickness (in)	0.0713
Minimum Thickness (in)	0.0677
Web Width (in)	4.0000
Flange Width (in)	2.0000
Stiffening Lip (in)	0.6250
Yield Strength (ksi)	50.0000

Gross Section Properties	
Cross Sectional Area (A)	0.622
Weight of Member (lb/ft)	2.12
Section Modulus (Sx)	0.795
Moment of Inertia (lx)	1.590
Radius of Gyration (Rx)	1.599
Gross Moment of Inertia (ly)	0.349
Gross Radium of Gyration (Ry)	0.750

Effective Section Properties	
Moment of Inertia for deflection (lxe)	1.589
Section Modulus (Sxe)	0.751
Allowable Bending moment (Ma)	22.48
Allowable shear force in web (U)(Vag)	4871
Allowable shear at punch (Vanet)	1356

Torsional Properties	
St. Venant torsion constant (J x 1000)	1.054
Warping constant (Cw)	1.318
Distance from shear center to neutral axis (Xo)	-1.643
Radii of gyration (Ro)	2.412
Torsional flexural constant (Beta)	0.536

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 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	 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)

