

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

Structural Stud 600S200-43G90

Product Description 18 GA GALV 6.00" WEB x 2.00"

FLANGE C-STUD .043 MIN GAUGE

G90

Coating G90

Physical Properties

 Design Thickness (in)
 0.0451

 Minimum Thickness (in)
 0.0428

 Web Width (in)
 6.0000

 Flange Width (in)
 2.0000

 Stiffening Lip (in)
 0.6250

 Yield Strength (ksi)
 33.0000

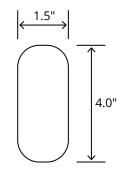


Gross Section Properties	
Cross Sectional Area (A)	0.492
Weight of Member (lb/ft)	1.67
Section Modulus (Sx)	0.894
Moment of Inertia (lx)	2.683
Radius of Gyration (Rx)	2.335
Gross Moment of Inertia (ly)	0.268
Gross Radium of Gyration (Ry)	0.739

Effective Section Properties	
Moment of Inertia for deflection (lxe)	2.683
Section Modulus (Sxe)	0.873
Allowable Bending moment (Ma)	17.24
Allowable shear force in web (U)(Vag)	1416
Allowable shear at punch (Vanet)	1240

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.334
Warping constant (Cw)	2.033
Distance from shear center to neutral axis (Xo)	-1.446
Radii of gyration (Ro)	2.844
Torsional flexural constant (Beta)	0.742

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)

