

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

Structural Stud 1200**S**200-68**G**90

Product Description 14 GA GALV 12.00" WEB x 2.00"

FLANGE C-STUD .068 MIN GAUGE

G90

Coating G90

Physical Properties

 Design Thickness (in)
 0.0713

 Minimum Thickness (in)
 0.0677

 Web Width (in)
 12.0000

 Flange Width (in)
 2.0000

 Stiffening Lip (in)
 0.6250

 Yield Strength (ksi)
 50.0000

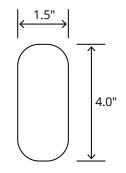


| Gross Section Properties | |
|-------------------------------|--------|
| Cross Sectional Area (A) | 1.192 |
| Weight of Member (lb/ft) | 4.06 |
| Section Modulus (Sx) | 3.659 |
| Moment of Inertia (lx) | 21.955 |
| Radius of Gyration (Rx) | 4.291 |
| Gross Moment of Inertia (ly) | 0.479 |
| Gross Radium of Gyration (Ry) | 0.634 |

| Effective Section Properties | |
|--|--------|
| Moment of Inertia for deflection (lxe) | 20.865 |
| Section Modulus (Sxe) | 2.963 |
| Allowable Bending moment (Ma) | 88.72 |
| Allowable shear force in web (U)(Vag) | 2771 |
| Allowable shear at punch (Vanet) | 2771 |

| Torsional Properties | |
|---|--------|
| St. Venant torsion constant (J x 1000) | 2.020 |
| Warping constant (Cw) | 14.176 |
| Distance from shear center to neutral axis (Xo) | -1.017 |
| Radii of gyration (Ro) | 4.456 |
| Torsional flexural constant (Beta) | 0.948 |

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)

