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## Structural Stud

# 362S200-33G90

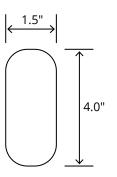
Product Description	20 GA GALV 3.62" WEB x 2.00" FLANGE C-STUD .033 MIN GAUGE G90
Coating	G90
Physical Properties	
Design Thickness (in)	0.0346
Minimum Thickness (in)	0.0329
Web Width (in)	3.6250
Flange Width (in)	2.0000
Stiffening Lip (in)	0.6250
Yield Strength (ksi)	33.0000

Gross Section Properties	
Cross Sectional Area (A)	0.297
Weight of Member (lb/ft)	1.01
Section Modulus (Sx)	0.358
Moment of Inertia (lx)	0.648
Radius of Gyration (Rx)	1.478
Gross Moment of Inertia (ly)	0.177
Gross Radium of Gyration (Ry)	0.772

Effective Section Properties	
Moment of Inertia for deflection (lxe)	0.642
Section Modulus (Sxe)	0.294
Allowable Bending moment (Ma)	5.81
Allowable shear force in web (U)(Vag)	1024
Allowable shear at punch (Vanet)	521

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.118
Warping constant (Cw)	0.577
Distance from shear center to neutral axis (Xo)	-1.741
Radii of gyration (Ro)	2.411
Torsional flexural constant (Beta)	0.478

#### **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	<ul> <li>ConstructionWaste Management – Mill Steel Framing steel framing is 100% recyclable</li> </ul>
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)

