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

ProSTUD® 250PDS125-30G90

Product Description **2 1/2" PROSTUD®30MIL (30MIL) G90**

Coating G90

Physical Properties

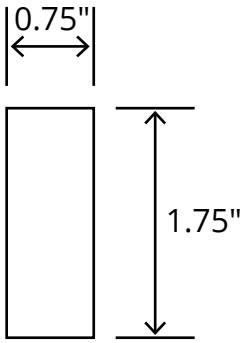
Design Thickness (in)	0.0312
Minimum Thickness (in)	0.0296
Web Width (in)	2.5
Flange Width (in)	1.25
Stiffening Lip (in)	0.25
Yield Strength (ksi)	33

Gross Section Properties	
Cross Sectional Area (A)	0.165
Moment of Inertia (Ix)	0.169
Radius of Gyration (Rx)	1.012
Gross Moment of Inertia (Iy)	0.034
Gross Radium of Gyration (Ry)	0.451

Effective Section Properties	
Effective Area (Ae)	0.106
Moment of Inertia for deflection (Ixe)	0.168
Section Modulus (Sxe)	0.121
Allowable Bending moment (Ma)	2383
Allowable shear force in web (U)(Vag)	832
Allowable shear force in web (P) (Vanet)	397

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.05345
Warping constant (Cw)	0.042
Distance from shear center to neutral axis (Xo)	-0.941
Radii of gyration (Ro)	1.454
Torsional flexural constant (Beta)	0.581
Unbraced Length (Lu)	30.1

Punch Out



Notes

1. Calculated properties are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members and AISI S220-15, North American Standard for Cold-Formed Steel Framing - NonStructural Members.
2. Effective Properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
3. Tabulated gross properties including torsional properties are based on full-unreduced cross section of the studs, away from punchouts.
4. For deflection calculations, use the effective moment of inertia.
5. Allowable moment includes cold-work of forming.
6. Allowable moment is taken as the lowest value based on loacl or distortional buckling. Distortional buckling strength is based on a k-phi = 0.

ASTM & Code Standards

• AISI S100-07 & S220-11 • Meets or exceeds ASTM C645 & C754 • ASTM E119, E72, & E90 • ATI CCRR-0207 • LA RR 26019

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)