

ProSTUD® 250PDS125-18G60

Product Description 2 1/2" PROSTUD®20 (18MIL)
Coating G60

Physical Properties

Design Thickness (in) 0.019
Minimum Thickness (in) 0.01805
Web Width (in) 2.5
Flange Width (in) 1.25
Stiffening Lip (in) 0.315
Yield Strength (ksi) 70



Gross Section Properties

Cross Sectional Area (A)	0.104
Moment of Inertia (Ix)	0.107
Radius of Gyration (Rx)	1.017
Gross Moment of Inertia (Iy)	0.023
Gross Radium of Gyration (Ry)	0.47

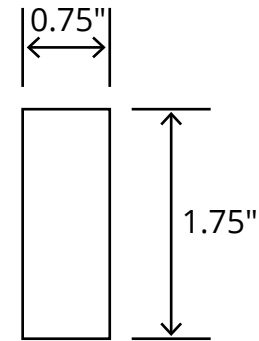
Effective Section Properties

Effective Area (Ae)	0.043
Moment of Inertia for deflection (Ixe)	0.099
Section Modulus (Sxe)	0.056
Allowable Bending moment (Ma)	2361
Allowable shear force in web (U)(Vag)	256
Allowable shear force in web (P) (Vanet)	204

Torsional Properties

St. Venant torsion constant (J x 1000)	0.0125
Warping constant (Cw)	0.031
Distance from shear center to neutral axis (Xo)	-1.004
Radii of gyration (Ro)	1.504
Torsional flexural constant (Beta)	0.555
Unbraced Length (Lu)	24.5

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 load 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)

