

ProSTUD® 162PDS125-18G60

Product Description 1 5/8" PROSTUD®20 (18MIL)
Coating G60

Physical Properties

Design Thickness (in) 0.019
 Minimum Thickness (in) 0.01805
 Web Width (in) 1.625
 Flange Width (in) 1.25
 Stiffening Lip (in) 0.275
 Yield Strength (ksi) 70



Gross Section Properties

Cross Sectional Area (A)	0.086
Moment of Inertia (Ix)	0.04
Radius of Gyration (Rx)	0.685
Gross Moment of Inertia (Iy)	0.019
Gross Radium of Gyration (Ry)	0.468

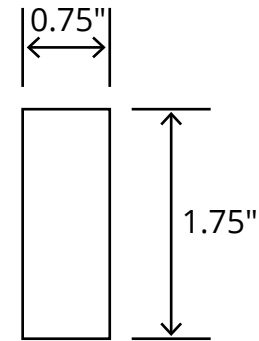
Effective Section Properties

Effective Area (Ae)	0.039
Moment of Inertia for deflection (Ixe)	0.035
Section Modulus (Sxe)	0.028
Allowable Bending moment (Ma)	1194
Allowable shear force in web (U)(Vag)	405
Allowable shear force in web (P) (Vanet)	149

Torsional Properties

St. Venant torsion constant (J x 1000)	0.01032
Warping constant (Cw)	0.012
Distance from shear center to neutral axis (Xo)	-1.105
Radii of gyration (Ro)	1.382
Torsional flexural constant (Beta)	0.361
Unbraced Length (Lu)	24.8

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)

