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ProTRAK® 600PDT125-15G90

Product Description **6" ProTrak®25 (15mil) 1-1/4" leg G90**

Coating G90

Physical Properties

Design Thickness (in)	0.0158
Minimum Thickness (in)	0.015
Web Width (in)	6
Flange Width (in)	1.25
Yield Strength (ksi)	50

Gross Section Properties	
Cross Sectional Area (A)	0.134
Moment of Inertia (Ix)	0.646
Radius of Gyration (Rx)	2.194
Gross Moment of Inertia (Iy)	0.016
Gross Radium of Gyration (Ry)	0.343

Effective Section Properties	
Effective Area (Ae)	0.021
Moment of Inertia for deflection (Ixe)	0.35
Section Modulus (Sxe)	0.059
Allowable Bending moment (Ma)	1762
Allowable shear force in web (U)(Vag)	59

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.01117
Warping constant (Cw)	0.108
Distance from shear center to neutral axis (Xo)	-0.524
Radii of gyration (Ro)	2.282
Torsional flexural constant (Beta)	0.947

ASTM & Code Standards

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

Section Properties Table 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.

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)