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ProTRAK®

250PDT125-33

Product Description	2 1/2" ProTrak®33MIL (33mil) 1-1/4" leg
Coating	G40
Physical Properties	
Design Thickness (in)	0.0346
Minimum Thickness (in)	0.0329
Web Width (in)	2.5
Flange Width (in)	1.25
Yield Strength (ksi)	33

Gross Section Properties	
Cross Sectional Area (A)	0.173
Moment of Inertia (lx)	0.188
Radius of Gyration (Rx)	1.043
Gross Moment of Inertia (ly)	0.027
Gross Radium of Gyration (Ry)	0.397

Effective Section Properties		
Effective Area (Ae)	0.102	
Moment of Inertia for deflection (lxe)	0.16	
Section Modulus (Sxe)	0.1	
Allowable Bending moment (Ma)	1972	
Allowable shear force in web (U)(Vag)	1024	

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.06891
Warping constant (Cw)	0.032
Distance from shear center to neutral axis (Xo)	-0.762
Radii of gyration (Ro)	1.351
Torsional flexural constant (Beta)	0.682

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

- 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 fullunreduced 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.
- 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
Recycled Content – Mill Steel Framing products contain no less than 25.5% post-consumer and 6.8% pre-consumer recycled content
Regional Materials – Mill Steel Framing has manufacturing facilities in Indiana, Alabama & Texas
Building Product Disclosure and Optimization EPD (1 point)
Materials Ingredients (1 point) – Construction and Demolition Waste Management (1 point)

