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(15mil)

# **ProTRAK®**

# 250PDT125-15

Product Description	2 1/2" ProTrak®25 1-1/4" leg
Coating	G40
Physical Properties	
Design Thickness (in)	0.0158
Minimum Thickness (in)	0.015
Web Width (in)	2.5
Flange Width (in)	1.25
Yield Strength (ksi)	50

Gross Section Properties	
Cross Sectional Area (A)	0.079
Moment of Inertia (lx)	0.085
Radius of Gyration (Rx)	1.038
Gross Moment of Inertia (ly)	0.013
Gross Radium of Gyration (Ry)	0.4

<b>Effective Section Properties</b>	
Effective Area (Ae)	0.02
Moment of Inertia for deflection (lxe)	0.059
Section Modulus (Sxe)	0.024
Allowable Bending moment (Ma)	724
Allowable shear force in web (U)(Vag)	143

Torsional Properties		
St. Venant torsion constant (J x 1000)	0.00657	
Warping constant (Cw)	0.015	
Distance from shear center to neutral axis (Xo)	-0.771	
Radii of gyration (Ro)	1.353	
Torsional flexural constant (Beta)	0.675	

#### **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
MR Credit 4
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)

