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## **ProTRAK®**

# 600PDT125-33G90

6" ProTrak®33MIL (33mil)

1-1/4" leg G90

G90

Product	Description
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Coating

### Physical Properties

Design Thickness (in)	0.0346
Minimum Thickness (in)	0.0329
Web Width (in)	6
Flange Width (in)	1.25
Yield Strength (ksi)	33

Gross Section Properties	
Cross Sectional Area (A)	0.294
Moment of Inertia (lx)	1.418
Radius of Gyration (Rx)	2.197
Gross Moment of Inertia (ly)	0.034
Gross Radium of Gyration (Ry)	0.339

Effective Section Properties		
Effective Area (Ae)	0.109	
Moment of Inertia for deflection (lxe)	1.237	
Section Modulus (Sxe)	0.287	
Allowable Bending moment (Ma)	5681	
Allowable shear force in web (U)(Vag)	619	

Torsional Properties		
St. Venant torsion constant (J x 1000)	0.11723	
Warping constant (Cw)	0.234	
Distance from shear center to neutral axis (Xo)	-0.517	
Radii of gyration (Ro)	2.282	
Torsional flexural constant (Beta)	0.949	

### **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)

