

## ProTRAK®

## 162PDT125-33G90

### Product Description

1 5/8" ProTrak®33MIL (33mil)  
1-1/4" leg G90

### Coating

G90

### Physical Properties

Design Thickness (in)	0.0346
Minimum Thickness (in)	0.0329
Web Width (in)	1.625
Flange Width (in)	1.25
Yield Strength (ksi)	33



### Gross Section Properties

Cross Sectional Area (A)	0.142
Moment of Inertia (Ix)	0.075
Radius of Gyration (Rx)	0.723
Gross Moment of Inertia (Iy)	0.024
Gross Radium of Gyration (Ry)	0.409

### Effective Section Properties

Effective Area (Ae)	0.095
Moment of Inertia for deflection (Ixe)	0.063
Section Modulus (Sxe)	0.056
Allowable Bending moment (Ma)	1104
Allowable shear force in web (U)(Vag)	677

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.05683
Warping constant (Cw)	0.012
Distance from shear center to neutral axis (Xo)	-0.87
Radii of gyration (Ro)	1.203
Torsional flexural constant (Beta)	0.477

### 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 local or distortional buckling. Distortional buckling strength is based on a  $k\text{-}\phi = 0$ .

### 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)

