

www.millsteelframing.com │ 2905 Lucerne Dr. SE Grand Rapids, MI 49546 │ (812) 670-4195

#### **ProTRAK®** 400PDT125-33G60

4" ProTrak®33MIL (33mil) **Product Description** 

1-1/4" leg G60

G60 Coating

**Physical Properties** 

Design Thickness (in) 0.0346 Minimum Thickness (in) 0.0329 Web Width (in) 4 Flange Width (in) 1.25 Yield Strength (ksi) 33



Gross Section Properties	
Cross Sectional Area (A)	0.225
Moment of Inertia (lx)	0.542
Radius of Gyration (Rx)	1.554
Gross Moment of Inertia (ly)	0.031
Gross Radium of Gyration (Ry)	0.371

Effective Section Properties	
Effective Area (Ae)	0.106
Moment of Inertia for deflection (lxe)	0.473
Section Modulus (Sxe)	0.197
Allowable Bending moment (Ma)	3887
Allowable shear force in web (U)(Vag)	931

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.08962
Warping constant (Cw)	0.093
Distance from shear center to neutral axis (Xo)	-0.632
Radii of gyration (Ro)	1.718
Torsional flexural constant (Beta)	0.865

### **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 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.
- 6. Allowable moment is taken as the lowest value based on load 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 MR Credit 4 and 6.8% pre-consumer recycled content

MR Credit 5 V4 MR Credits · 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)

