

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

ProTRAK® 362PDT200-18G90

Product Description 3 5/8" ProTrak®20 (18mil) 2"

leg G90

Coating G90

**Physical Properties** 

Design Thickness (in)0.019Minimum Thickness (in)0.01805Web Width (in)3.625Flange Width (in)2Yield Strength (ksi)50



Gross Section Properties	
Cross Sectional Area (A)	0.145
Moment of Inertia (lx)	0.333
Radius of Gyration (Rx)	1.517
Gross Moment of Inertia (ly)	0.061
Gross Radium of Gyration (Ry)	0.648

## Effective Section Properties Effective Area (Ae) 0.029 Moment of Inertia for deflection (Ixe) 0.188 Section Modulus (Sxe) 0.05 Allowable Bending moment (Ma) 1500 Allowable shear force in web (U)(Vag) 170

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.01743
Warping constant (Cw)	0.145
Distance from shear center to neutral axis (Xo)	-1.28
Radii of gyration (Ro)	2.088
Torsional flexural constant (Beta)	0.624

## **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 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 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

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)

