162PT300-18



Submittal Data – Drywall Track

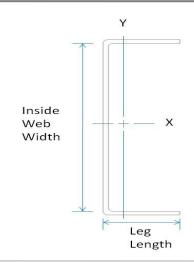
Member Designator

CP40, G40

Coating

Physical Properties

Design Thickness 0.019 in Mil 18mil Gauge 20 Gauge Web Width 1.625 in Flange Width 3.00 in **Yield Strength** 50 ksi



Gross Properties

Area	Weight	lx	Rx	ly	Ry
(in²)	(lb/ft)	(in ⁴)	(in)	(in ⁴)	(in)
0.145	0.49	0.088	0.777	0.139	0.981

Effective Properties

Ae	lx	Sx	Ma	Vag
(in²)	(in ⁴)	(in³)	(in-lbs)	(lb)
0.028	0.036	0.021	633	380

Torsional Properties

Jx1000	Cw	Хо	Ro	β
(in²)	(in ⁴)	(in³)	(in-lbs)	
0.01743	0.075	-2.54	2.832	0.195

General 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. Allowable moment includes cold-work of forming.
- 4. Tabulated gross properties including torsional properties are based on full-unreduced cross section of the studs, away from punchouts.
- 5. For deflection calculations, use the effective moment of inertia.
- 6. Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on a k-phi = 0.
- 7. Drywall framing members have a protective coating conforming to ASTM spec A 653/A 653M, G-40 min, or equivalent corrosion resistance.
- 8. Reference ASTM specification A 1003/A 1003 M table 1 for the universe of allowable coatings for light gauge steel framing.
- 9. Drywall framing members are marked with product information per the requirements of ASTM C 645 section 14.
- 10. All delivered material must be kept dry. If it is necessary to store material outside, it must be stacked off the ground, properly supported on a level platform, and fully protected from the weather. Reference ASTM C 754 section 8 and ASTM C 1007 section 4.
- 11. Drywall framing [nonstructural 25 gauge, 22 gauge and 20 gauge] is not permitted in load bearing (i.e. axial load greater than 200 lbs.) or exterior applications (i.e. transverse load greater than 10 PSF). Reference ASTM C 645 section 3.2.2.

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LEED v4 MR Credit - Building Product Disclosure Optimization: EPD (1 Point), Raw Material Sourcing (1 Point), Material Ingredients (1 Point), Construction and Demolition Waste (up to 2 points), Innovation Credit (up to 2 points)

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