

Submittal Data - Drywall Track

Member Designator

350PT100-18

Coating

CP40, G40

Physical Properties

Design Thickness 0.019 in

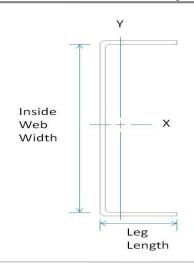
Mil 18mil

Gauge 20 Gauge

Web Width 3.500 in

Flange Width 1.00 in

Yield Strength 50 ksi



Gross Properties

Area (in²)	Weight	lx	Rx	ly	Ry
	(lb/ft)	(in⁴)	(in)	(in ⁴)	(in)
0.104	0.36	0.188	1.342	0.009	0.293

Effective Properties

Ae	lx	Sx	Ma	Va_g
(in²)	(in ⁴)	(in³)	(in-lbs)	(lb)
0.029	0.153	0.048	1440	176

Torsional Properties

Jx1000	Cw	Xo	Ro	β
(in²)	(in ⁴)	(in³)	(in-lbs)	
0.01257	0.021	-0.488	1.458	0.888

General 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. 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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