

Member Designator **250PT100-15**

Coating G40 EQ

Physical Properties

Design Thickness 0.0158 in
 Mil 15 mil
 Gauge 25 Gauge
 Web Width 2.50 in
 Flange Width 1.00 in
 Yield Strength 50 ksi



Gross Properties

Gross Properties						
Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)
0.071	0.242	0.072	0.056	1.007	0.007	0.311

Effective Properties

Effective Properties			
A _e (in ²)	I _{xe} (in ⁴)	S _{xe} (in ³)	M _a (in-lbs)
0.020	0.054	0.024	725

Torsional Properties

Torsional				
J ^{x1000} (in ⁴)	C _w (in ⁶)	X _o (in)	R _o (in)	β
0.006	0.008	-0.566	1.197	0.776

General Notes

- Physical properties and load tables have been calculated based on AISI S100-07, NASPEC for Design of Cold-Formed Steel Structural Members.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
- Allowable moment includes cold-work of forming.
- Tabulated gross properties, including torsional properties, are based on full-unreduced cross section of the studs (away from punchouts) & tracks.
- Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on a k-phi = 0.
- Drywall framing members have a protective coating conforming to ASTM spec A 653/A 653M, G-40 min, or equivalent corrosion resistance.
- Reference ASTM specification A 1003/A 1003 M table 1 for the universe of allowable coatings for light gauge steel framing.
- Drywall framing members are marked with product information per the requirements of ASTM C 645 section 14.
- 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.
- 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.

LEED Green Building Credits

- MR Credit 2: Construction Waste Management – MBA steel framing is 100% recyclable.
 MR Credit 4: Recycled Content – MBA steel framing is formed from no less than 25.5% post-consumer and 6.8% pre-consumer recycled content.
 MR Credit 5: Regional Materials – MBA has manufacturing facilities in multiple states.