

**Member Designator 250PT150-15**

Coating G40 EQ

**Physical Properties**

Design Thickness 0.0158 in  
 Mil 15 mil  
 Gauge 25 Gauge  
 Web Width 2.50 in  
 Flange Width 1.50 in  
 Yield Strength 50 ksi



**Gross Properties**

Gross Properties						
Area (in <sup>2</sup> )	Weight (lb/ft)	Ix (in <sup>4</sup> )	Sx (in <sup>3</sup> )	Rx (in)	Iy (in <sup>4</sup> )	Ry (in)
0.087	0.296	0.098	0.076	1.062	0.021	0.489

**Effective Properties**

Effective Properties			
Ae (in <sup>2</sup> )	Ixe (in <sup>4</sup> )	Sxe (in <sup>3</sup> )	Ma (in-lbs)
0.020	0.061	0.024	723

**Torsional Properties**

Torsional				
J <sup>x1000</sup> (in <sup>4</sup> )	Cw (in <sup>6</sup> )	Xo (in)	Ro (in)	β
0.007	0.024	-0.985	1.529	0.585

**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.