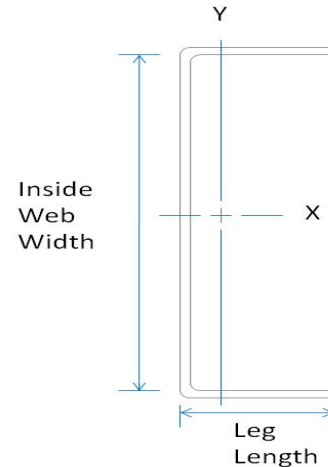


**Member Designator 400PT250-15**

Coating G40 EQ

**Physical Properties**

Design Thickness 0.0158 in  
 Mil 15 mil  
 Gauge 25 Gauge  
 Web Width 4.00 in  
 Flange Width 2.50 in  
 Yield Strength 50 ksi



Note : Web depth to thickness ratio exceeds 200, web stiffeners are required at bearing locations in non-composite conditions

**Gross Properties**

Gross Properties						
Area (in <sup>2</sup> )	Weight (lb/ft)	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	R <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	R <sub>y</sub> (in)
0.142	0.484	0.409	0.201	1.696	0.095	0.819

**Effective Properties**

Effective Properties			
A <sub>e</sub> (in <sup>2</sup> )	I <sub>xe</sub> (in <sup>4</sup> )	S <sub>xe</sub> (in <sup>3</sup> )	M <sub>a</sub> (in-lbs)
0.021	0.174	0.040	1189

**Torsional Properties**

Torsional				
J <sup>x1000</sup> (in <sup>4</sup> )	C <sub>w</sub> (in <sup>6</sup> )	X <sub>o</sub> (in)	R <sub>o</sub> (in)	β
0.012	0.275	-1.670	2.517	0.560

**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.