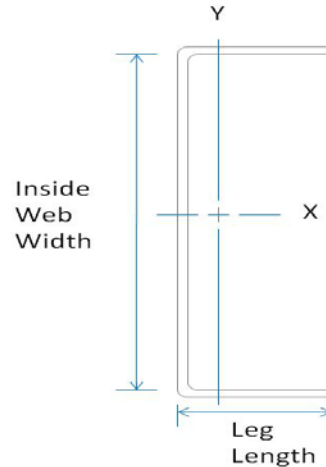


**Member Designator**    **162PT250-33**  
 Coating                      G40 EQ

## Physical Properties

Design Thickness            0.0346 in  
 Mil                              33 mil  
 Gauge                         20 Gauge  
 Web Width                    1.625 in  
 Flange Width                2.50 in  
 Yield Strength                33 ksi



## Gross Properties

| Gross Properties           |                   |                                      |                                      |                        |                                      |                        |
|----------------------------|-------------------|--------------------------------------|--------------------------------------|------------------------|--------------------------------------|------------------------|
| Area<br>(in <sup>2</sup> ) | Weight<br>(lb/ft) | I <sub>x</sub><br>(in <sup>4</sup> ) | S <sub>x</sub><br>(in <sup>3</sup> ) | R <sub>x</sub><br>(in) | I <sub>y</sub><br>(in <sup>4</sup> ) | R <sub>y</sub><br>(in) |
| 0.229                      | 0.779             | 0.137                                | 0.158                                | 0.774                  | 0.154                                | 0.821                  |

## Effective Properties

| Effective Properties                 |                                       |                                       |                            |
|--------------------------------------|---------------------------------------|---------------------------------------|----------------------------|
| A <sub>e</sub><br>(in <sup>2</sup> ) | I <sub>xe</sub><br>(in <sup>4</sup> ) | S <sub>xe</sub><br>(in <sup>3</sup> ) | M <sub>a</sub><br>(in-lbs) |
| 0.098                                | 0.085                                 | 0.063                                 | 1235                       |

## Torsional Properties

| Torsional                                |                                      |                        |                        |       |
|--|--------------------------------------|------------------------|------------------------|-------|
| J <sup>x1000</sup><br>(in <sup>4</sup> ) | C <sub>w</sub><br>(in <sup>6</sup> ) | X <sub>o</sub><br>(in) | R <sub>o</sub><br>(in) | β     |
| 0.091                                    | 0.083                                | -2.046                 | 2.336                  | 0.233 |

## General Notes

- MBA Building Supplies is a SSMA member company. MBA adheres to the product standards and quality standards as required by SSMA.
- Physical properties and load tables have been calculated in conformance with the 2001 NASPEC for the Design of Cold-Formed Steel Structural Members, including the 2004 Supplement, and the IBC 2006, unless noted otherwise.
- Allowable composite heights are calculated using ICC-ES AC86-2010. The 1/3 stress increase was not used.
- 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, preferably by being stored inside a building under a roof. 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 Illinois and Alabama.