

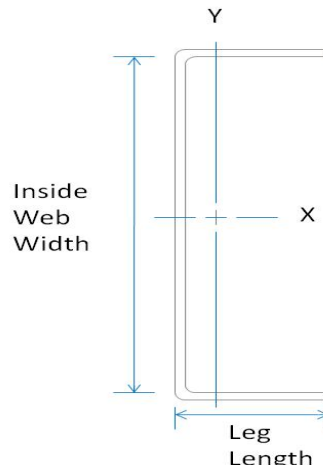
**Member Designator 400T300-33**

Coating CP60

**Physical Properties**

Design Thickness 0.0346 in  
 Mil 33 mil  
 Gauge 20 Gauge  
 Inside Web Width 4.00 in  
 Leg Length 3.00 in  
 Yield Strength 33 ksi

*Note: Flange width-to-thickness ratio exceeds 60. Effective section Properties not calculated.*



**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) |
| 0.346                      | 1.18              | 1.049                                | 0.509                                | 1.742                  | 0.338                                | 0.989                  |

**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) | m<br>(in) | R <sub>o</sub><br>(in) | β     |
| 0.138                                    | 0.994                                | -2.105                 | 1.214     | 2.905                  | 0.475 |

**General Notes**

- 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.
- All structural framing members have a protective coating conforming to ASTM C 955.
- Reference ASTM specification A 1003/A 1003 M table 1 for the universe of allowable coatings for light gauge steel framing.
- Stud/joists are manufactured to custom lengths. Stud/joists are manufactured with punched webs unless otherwise specified at time of order.
- Track is produced in standard lengths of 10 feet unless a custom track length is indicated. Track is manufactured with unpunched webs.
- Structural framing members are marked with product information per the requirements of ASTM C 955 section 12.
- 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.

**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.