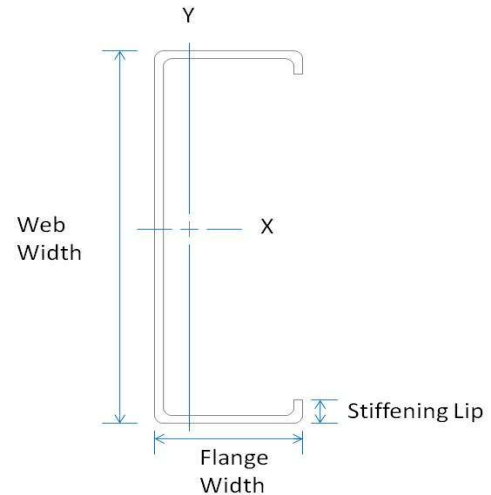


## Member Designator **1000S250-43**

Coating CP60

## Physical Properties

Design Thickness 0.0451 in  
 Mil 43 mil  
 Gauge 18 Gauge  
 Web Width 10.00 in  
 Flange Width 2.50 in  
 Stiffening Lip 0.625 in  
 Yield Strength 33 ksi



## Gross Properties

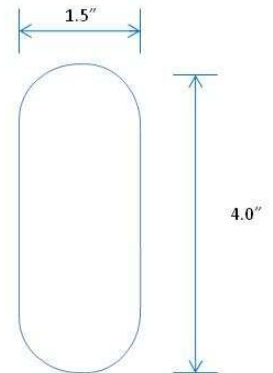
| Area<br>(in <sup>2</sup> ) | Weight<br>(lb/ft) | I <sub>x</sub><br>(in <sup>4</sup> ) | S <sub>x</sub><br>(in <sup>3</sup> ) | R <sub>x</sub><br>(in) | I <sub>y</sub><br>(in <sup>4</sup> ) | R <sub>y</sub><br>(in) |
|----------------------------|-------------------|--------------------------------------|--------------------------------------|------------------------|--------------------------------------|------------------------|
| 0.717                      | 2.44              | 10.203                               | 2.041                                | 3.771                  | 0.531                                | 0.860                  |

## Effective Properties

| I <sub>x</sub><br>(in <sup>4</sup> ) | S <sub>x</sub><br>(in <sup>3</sup> ) | M <sub>a</sub><br>(in-k) | V <sub>ag</sub><br>(lb) |
|--------------------------------------|--------------------------------------|--------------------------|-------------------------|
| 10.203                               | 1.617                                | 31.95                    | 836                     |

## Torsional Properties

| 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     |
|--|--------------------------------------|------------------------|-----------|------------------------|-------|
| 0.486                                    | 10.481                               | -1.518                 | 0.965     | 4.155                  | 0.867 |



Structural Punch

## 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.