

Member Designator **400PT125-33**
 Coating G40 EQ

Physical Properties

Design Thickness 0.0346 in
 Mil 33 mil
 Gauge 20 Gauge
 Web Width 4.00 in
 Flange Width 1.25 in
 Yield Strength 33 ksi



Gross Properties

| Gross Properties | | | | | | |
|----------------------------|-------------------|--------------------------------------|--------------------------------------|------------------------|--------------------------------------|------------------------|
| Area (in ²) | Weight (lb/ft) | I _x (in ⁴) | S _x (in ³) | R _x (in) | I _y (in ⁴) | R _y (in) |
| 0.225 | 0.764 | 0.542 | 0.264 | 1.554 | 0.031 | 0.371 |

Effective Properties

| Effective Properties | | | |
|--------------------------------------|---------------------------------------|---------------------------------------|----------------------------|
| A _e (in ²) | I _{xe} (in ⁴) | S _{xe} (in ³) | M _a (in-lbs) |
| 0.106 | 0.473 | 0.197 | 3887 |

Torsional Properties

| Torsional | | | | |
|--|--------------------------------------|------------------------|------------------------|-------|
| J ^{x1000} (in ⁴) | C _w (in ⁶) | X _o (in) | R _o (in) | β |
| 0.090 | 0.093 | -0.632 | 1.718 | 0.865 |

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.