

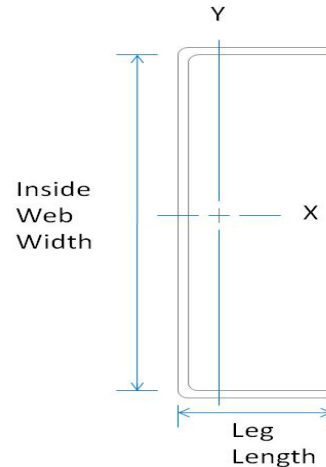
Member Designator 400PT150-15

Coating G40 EQ

Physical Properties

Design Thickness 0.0158 in
 Mil 15 mil
 Gauge 25 Gauge
 Web Width 4.00 in
 Flange Width 1.50 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 ²) | Weight (lb/ft) | I _x (in ⁴) | S _x (in ³) | R _x (in) | I _y (in ⁴) | R _y (in) |
| 0.111 | 0.376 | 0.279 | 0.137 | 1.589 | 0.024 | 0.464 |

Effective Properties

| Effective Properties | | | |
|--------------------------------------|---------------------------------------|---------------------------------------|----------------------------|
| A _e (in ²) | I _{xe} (in ⁴) | S _{xe} (in ³) | M _a (in-lbs) |
| 0.021 | 0.158 | 0.039 | 1175 |

Torsional Properties

| Torsional | | | | |
|--|--------------------------------------|------------------------|------------------------|-------|
| J ^{x1000} (in ⁴) | C _w (in ⁶) | X _o (in) | R _o (in) | β |
| 0.009 | 0.070 | -0.832 | 1.852 | 0.798 |

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.
- 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 multiple states.