

Member Designator **400T300-54**

Coating **CP60**

Physical Properties

Design Thickness **0.0566 in**
 Mil **54 mil**
 Gauge **16 Gauge**
 Inside Web Width **4.00 in**
 Leg Length **3.00 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) |
| 0.565 | 1.92 | 1.754 | 0.835 | 1.761 | 0.548 | 0.985 |

Effective Properties

| Effective Properties (33ksi) | | | |
|---------------------------------------|---------------------------------------|--------------------------|-------------------------|
| I _{xe} (in ⁴) | S _{xe} (in ³) | M _a (in-k) | V _{ag} (lb) |
| 1.302 | 0.460 | 9.09 | 2739 |

Torsional Properties

| Torsional | | | | | |
|--|--------------------------------------|------------------------|-----------|------------------------|-------|
| J ^{x1000} (in ⁴) | C _w (in ⁶) | X _o (in) | m (in) | R _o (in) | β |
| 0.604 | 1.662 | -2.090 | 1.206 | 2.905 | 0.482 |

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.
- 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.