|   | Sales:(888)248-8076<br>Fax:(847)680-7883<br>www.mbastuds.com   |                           |                      | Submittal Data – Drywall Track |                        |                    |               |
|---|--|---------------------------|----------------------|--------------------------------|------------------------|--------------------|---------------|
| Member Designator<br>Coating  | <b>250PT300-18</b><br>CP40, G40                                |                           |                      |                                |                        |                    | Y             |
| <b>Physical Properties</b><br>Design Thickness<br>Mil<br>Gauge<br>Web Width<br>Flange Width<br>Yield Strength | 0.019 in<br>18mil<br>20 Gauge<br>2.500 in<br>3.00 in<br>50 ksi |                           |                      |                                | Inside<br>Web<br>Width |                    | Leg<br>Length |
| Gross Properties  | Area<br>(in <sup>2</sup> )<br>0.161                            | Weight<br>(lb/ft)<br>0.55 | lx<br>(in⁴)<br>0.211 | <b>Rx</b><br>(in)<br>1.144     | ly<br>(in⁴)<br>0.160   | Ry<br>(in)         |               |
|   | Ae   | Ix                        | Sx                   |                                | Ma                     | Va <sub>g</sub>    |               |
| <b>Effective Properties</b>   | (in <sup>2</sup> )   | (in⁴)<br>0.092            |                      |                                | - <b>lbs)</b><br>009   | <b>(lb)</b><br>248 |               |
|   | 0.025  |                           | 0.00                 | <u> </u>                       |                        | 210                | J             |
|   | Jx1000   | Cw                        | Хо                   | Ro                             | )                      | β                  |               |
| <b>Torsional Properties</b>   | (in <sup>2</sup> )   | (in <sup>4</sup> )        | (in <sup>3</sup> )   | (in-l                          | -                      | 202                |               |

## **General Notes**

1. Calculated properties are based on AISI S100-12, North American Specification for Design of Cold-Formed Steel Structural Members and AISI S220-15, North American Standard for Cold-Formed Steel Framing - Nonstructural Members.

-2.361

2.806

0.292

2. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.

0.01943

- 3. Allowable moment includes cold-work of forming.
- 4. Tabulated gross properties including torsional properties are based on full-unreduced cross section of the studs, away from punchouts.

0.191

- 5. For deflection calculations, use the effective moment of inertia.
- 6. Allowable moment is taken as the lowest value based on local or distortional buckling. Distortional buckling strength is based on a k-phi = 0.
- 7. Drywall framing members have a protective coating conforming to ASTM spec A 653/A 653M, G-40 min, or equivalent corrosion resistance.
- 8. Reference ASTM specification A 1003/A 1003 M table 1 for the universe of allowable coatings for light gauge steel framing.
- 9. Drywall framing members are marked with product information per the requirements of ASTM C 645 section 14.
- 10. All delivered material must be kept dry. 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.
- 11. 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

LEED v4 MR Credit - Building Product Disclosure Optimization: EPD (1 Point), Raw Material Sourcing (1 Point), Material Ingredients (1 Point), Construction and Demolition Waste (up to 2 points), Innovation Credit (up to 2 points)

LEED 2009 Credit - MBA steel products are 100% recyclable with a minimum recycle content of 32.7% (25.5% Post-Consumer and 6.8% Pre-Consumer/Post-Industrial). Higher rates can be achieved for MR5 by pre-planning with MBA sales@mbastuds.com or (888) 248-8076.

