

## 250VT300-33 VIPERTRACK

### Geometric Properties

2-1/2" ViperTrack with 3" legs is manufactured from standard G40 hot-dipped galvanized steel. G60 and G90 coatings are available through special order, and may require up-charges and extended lead times.

### Physical Properties

| Model No.   | Design Thickness (in) | Minimum Thickness (in) | Yield (ksi) | Coating <sup>3,4</sup> | Web Depth (in) | Leg Size (in) | GAP <sup>5</sup> (in) | Load <sup>5</sup> (lb.) | Max Height <sup>5</sup> 5 psf, 16" o.c. |
|-------------|-----------------------|------------------------|-------------|------------------------|----------------|---------------|-----------------------|-------------------------|-----------------------------------------|
| 250VT300-33 | 0.0346                | 0.0329                 | 33          | G40                    | 2-1/2          | 3             | 1                     | 56                      | 16'-11"                                 |

**Notes:**

1. Uncoated steel thickness. Thickness is for carbon sheet steel.
2. Minimum thickness represents 95% of the design thickness and is the minimum acceptable thickness.
3. Per ASTM C645 & A1003, Table 1.
4. G60 and G90 available upon request. Will require extended lead time and upcharge.
5. Use Gap, Load and Maximum Height data when member is used as a top deflection track.

**Color Code (painted on ends):** 33 mil: White

#### ASTM & Code Standards:

- ASTM A653/A653M, A924/A924M, A1003/A1003M, C645, C754, E119
- IBC: 2012, 2015, 2018
- CBC: 2013, 2016
- AISI: S100-07, S100-12, S100-16, S220-11, S220-15

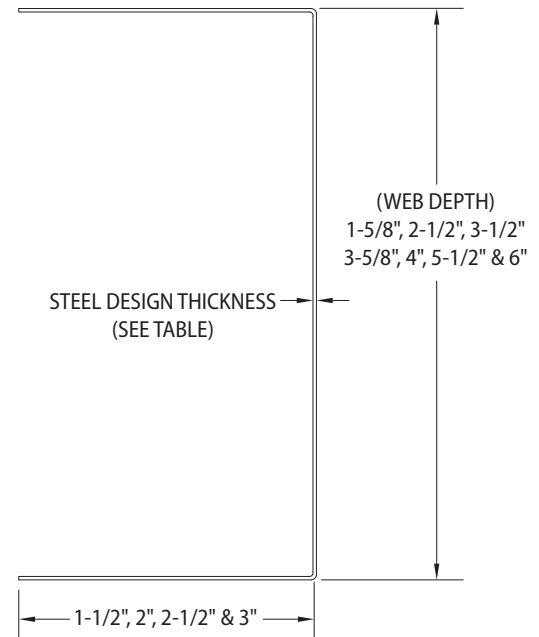
#### LEED v4 for Building and Design Construction

- MR Prerequisite: Construction and Demolition Waste Management Planning.
- MR Credit: Construction and Demolition Waste Management.
- MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials, Option 2.
- MR Credit: Building Product Disclosure and Optimization – Environmental Product Declarations, Options 1 & 2.
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.

#### CEMCO cold-formed steel framing products contain 30% to 37% recycled steel.

- Total Recycled Content: 36.9%
- Post-Consumer: 19.8%
- Pre-Consumer: 14.4%

**CSI Division:** 09.22.16 – Non-Structural Metal Framing



### ViperTrack 3.00" Leg

| Member      | Leg Size<br>(in) |                   |                |             |                | Gross Properties |             |             |            |             |             |            | Effective Properties |              |              | Torsional Properties |                 |            |            |       |
|-------------|------------------|-------------------|----------------|-------------|----------------|------------------|-------------|-------------|------------|-------------|-------------|------------|----------------------|--------------|--------------|----------------------|-----------------|------------|------------|-------|
|             |                  | Weight<br>(lb/ft) | Design<br>(in) | Min<br>(in) | Yield<br>(ksi) | Area<br>(in²)    | Ix<br>(in⁴) | Sx<br>(in³) | Rx<br>(in) | Iy<br>(in⁴) | Sy<br>(in³) | Ry<br>(in) | Ixd<br>(in⁴)         | Sxe<br>(in³) | Ma<br>(in-k) | Xo<br>(in)           | Jx1000<br>(in⁴) | Cw<br>(in) | Ro<br>(in) | β     |
| 250VT300-33 | 3.00             | 1.00              | 0.0346         | 0.0329      | 33             | 0.295            | 0.404       | 0.303       | 1.170      | 0.290       | 0.150       | 0.993      | 0.234                | 0.120        | 2.38         | -2.35                | 0.1180          | 0.3660     | 2.80       | 0.300 |

**Notes:**

1. Section properties are in accordance with AISI S100-16.
2. Cold-work of forming is not included.
3. The effective moment of inertia for deflection is calculated based on AISI S100-16 procedure 1 for serviceability determination.
4. The center line bend radius is greater than 2 times the design thickness or 3/32".