



Expanding Your Solutions

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400VT300-18-70 (20EQ) VIPERTRACK

Geometric Properties

4" 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 ^{3,4}	Web Depth (in)	Leg Size (in)	GAP ⁵ (in)	Load ⁵ (lb.)	Max Height ⁵ 5 psf, 16" o.c.
400VT300-18-70 (20EQ)	0.0190	0.0181	70	G40	4	3	1	40	12'-1"

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): 18 mil: None

ASTM & Code Standards:

- ASTM A653/A653M, A924/A924M, A1003/A1003M, C645, C754, E119
- IBC: 2012, 2015, 2018, 2021
- CBC: 2013, 2016, 2019
- AISI: S100, S220

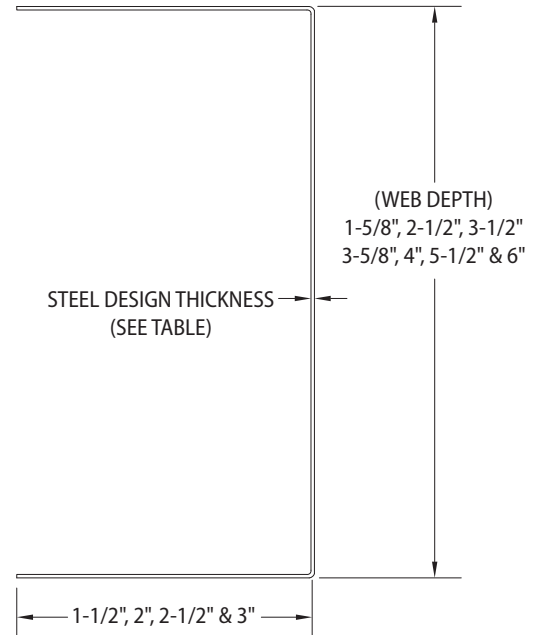
LEED v4 for Building and Design Construction

- 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 (in)	Weight (lb/ft)	Design (in)	Min (in)	Yield (ksi)	Gross Properties							Effective Properties			Torsional Properties				
						Area (in²)	Ix (in⁴)	Sx (in³)	Rx (in)	Iy (in⁴)	Sy (in³)	Ry (in)	Ixd (in⁴)	Sxe (in³)	Ma (in-k)	Xo (in)	Jx10³ (in⁴)	Cw (in)	Ro (in)	β
400VT300-18-70 (20EQ)	3.00	0.75	0.0190	0.0181	70	0.188	0.516	0.260	1.656	0.181	0.087	0.981	0.184	0.060	2.10	-2.092	0.0227	0.5260	2.84	0.458

Notes:

1. Section properties are in accordance with AISI S100 & S220.
2. Cold-work of forming is not included.
3. The effective moment of inertia for deflection is calculated based on AISI S100 & S220 procedure 1 for serviceability determination.
4. The center line bend radius is greater than 2 times the design thickness or 3/32.
5. Web-to-thickness ratio exceeds 200.
6. Web-to-thickness ratio exceeds 260.
7. Flange-width-to-thickness-ratio exceeds 60.

Check the updated list of Certified Production Facilities at Intertek's website at <http://www.intertek.com/building/sfia>



This technical information reflects the most current information available and supersedes any and all previous publications effective October 06, 2022.

10-06-22 AT