

Expanding Your Solutions

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400VT150-18-70 (20EQ) VIPERTRACK

Geometric Properties

4" ViperTrack with 1-1/2" 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)	
400VT150-18-70 (20EQ)	0.0190	0.0181	70	G40	4	1-1/2	

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

(WEB DEPTH) 1-5/8", 2-1/2", 3-1/2" 3-5/8", 4", 5-1/2" & 6" STEEL DESIGN THICKNESS (SEE TABLE)

ViperTrack 1.50" Leg

						Gross Properties							Effective Properties			Torsional Properties				
Member	Leg Size (in)	Weight (lb/ft)	Design (in)	Min (in)	Yield (ksi)	Area (in²)	Ix (in ⁴)	Sx (in³)	Rx (in)	ly (in ⁴)	Sy (in³)	Ry (in)	lxd (in ⁴)	Sxe (in³)	Ma (in-k)	Xo (in)	Jx10 ³ (in ⁴)	Cw (in)	Ro (in)	ß
400VT150-18-70 (20EQ)	1.5	0.448	0.0190	0.0181	70	0.1317	0.3272	0.1621	1.5762	0.0271	0.0773	0.4535	0.1647	0.0587	2.053	7946	0.0155	0.0812	1.823	0.8099

Notes:

- Section properties are in accordance with AISI S100 & S220.
- 2. Cold-work of forming is not included.
- 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 ration exceeds 200.
- 6. Web-to-thickness ratio exceeds 260.
- 7. Flange-width-to-thickness-ratio exceeds 60.







Check the updated list of Certified Production