

Expanding Your Solutions

Corporate Headquarters

www.cemcosteel.com

13191 Crossroads Pkwy N., Ste 325 City of Industry, CA 91746 Phone: 800.775.2362 Fax: 626.330.7598

Manufacturing Facilities

City of Industry, CA Denver, CO Ft. Worth, TX Pittsburg, CA

Structural Engineering/Design

1001-A Pittsburgh Antioch Hwy Pittsburg, CA 94565 Phone: 800.775.2362 Fax: 626.330.7598 www.cemcoengineering.com

Technical Services

13191 Crossroads Pkwy N., Ste 325 City of Industry, CA 91746 **Phone:** 800.416.2278 **Fax:** 626.249.5004

400VT200-33 VIPERTRACK

Geometric Properties

4" ViperTrack with 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)	GAP ⁵ (in)	Load ⁵ (lb.)	Max Height ⁵ 5 psf, 16" o.c.	
400VT200-33	0.0346	0.0329	33	G40	4	2	1/2	112	33'-10"	

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 2.00" Leg

						Gross Properties							Effective Properties			Torsional Properties				
Member	Leg Size (in)	Weight (lb/ft)	Design (in)	Min (in)	Yield (ksi)	Area (in²)	lx (in ⁴)	Sx (in³)	Rx (in)	ly (in ⁴)	Sy (in³)	Ry (in)	lxd (in ⁴)	Sxe (in³)	Ma (in-k)	Xo (in)	Jx1000 (in ⁴)	Cw (in)	Ro (in)	ß
400VT200-33	2.00	0.94	0.0346	0.0329	33	0.277	0.775	0.373	1.670	0.113	0.076	0.638	0.570	0.220	4.34	-1.23	0.1110	0.3400	2.17	0.680

Notes

1. Section properties are in accordance with AISI S100-16.

Check the updated list of Certified Production

http://www.intertek.com/building/sfia

2. Cold-work of forming is not included.

Facilities at Intertek's website at

- 3. The effective moment of inertia for deflection is calculated based on AISI S100-16 procedure 1 for serviceability determination.
- $\textbf{4.} \ \text{The center line bend radius is greater than 2 times the design thickness or 3/32"}.$







12-12-18 AT