CEMCO®

EXPANDING YOUR SOLUTIONS

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162VT150-33 VIPERTRACK

Geometric Properties

1-5/8" 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)	GAP[5] (in)	Load[5] (lb.)	Max Height[5] 5 psf, 16" o.c.
162VT150-33	0.0346	0.0329	33	G40	1-5/8	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): 33 mil: White

ASTM & Code Standards:

■ ASTM A653/A653M, A924/A924M, A1003/A1003M, C645, C754, E119
■ IBC: 2015, 2018, 2021
■ CBC: 2016, 2019, 2022
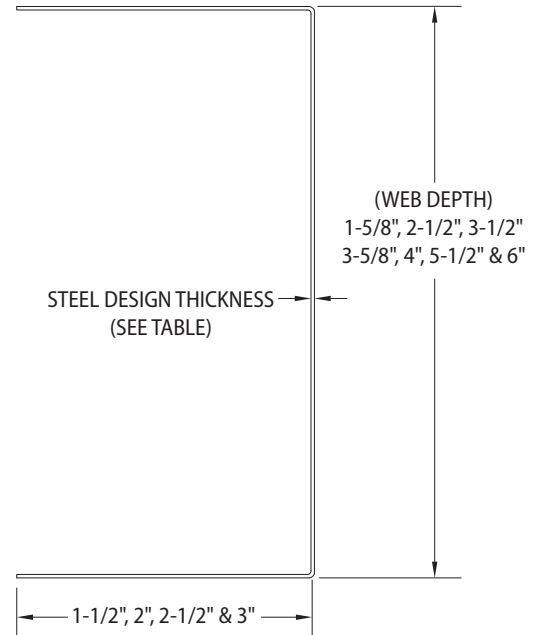■ AISI: S100, S220

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)

1-1/2", 2", 2-1/2" & 3"

ViperTrack 1.50" 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 (in⁴)	Ro (in)	ß
162VT150-33	1.50	0.5446	0.0346	0.0329	33	0.1602	0.0835	0.0986	0.7219	0.0395	0.0775	0.4963	0.0586	0.0567	0.9351	-1.109	0.0639	0.0193	1.413	0.535

Notes:
1. Section properties are in accordance with AISI S100-16/S2-20.
2. Cold-work of forming is not included.
3. The effective moment of inertia for deflection is calculated based on AISI S100-16/S2-20 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, only gross properties will be determined.

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 September 25, 2023.
09-25-23 AT