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250VT200-18 (25 GA.) 33 KSI VIPERTRACK (SELECT MARKETS ONLY)

Geometric Properties

2-1/2" x 2" flange, 18 mil 33 ksi ViperTracks are manufactured from G40 hot-dipped galvanized steel. G60 and G90 coating 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.
250VT200-18 (25 ga.)	0.0188	0.0179	33	G40	2-1/2	2	1/2	33	9'-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 & 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: 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



ViperTrack 2.00" Leg

Member	Leg Size (in)	Gross Properties										Effective Properties			Torsional Properties					
		Weight (lb/ft)	Design (in)	Min (in)	Yield (ksi)	Area (in ²)	Ix (in ⁴)	Sx (in ³)	Rx (in)	Iy (in ⁴)	Sy (in ³)	Ry (in)	Ixd (in ⁴)	Sxe (in ³)	Ma (in-k)	Xo (in)	Jx1000 (in ⁴)	Cw (in)	Ro (in)	β
250VT200-18 (25 ga.)	2.00	0.4162	0.0188	0.0179	33	0.1223	0.1537	0.1164	1.1211	0.0534	0.0383	0.6610	--	--	--	-1.4250	0.0144	0.0655	1.930	0.455

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.

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