

**Expanding Your Solutions** 

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# 162VT125-18-50 (20EQ) VIPERTRACK

# **Geometric Properties**

1-5/8" X 1-1/4" flange 18 mil ViperTracks are 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.

# **Steel Thickness**

Model No.	Design Thickness (in)	Minimum Thickness (in)	<b>Yield</b> (ksi)	Web Depth (W) (in)	Coating <sup>4</sup>	Flange (in)	
162VT125-18-50 (20EQ)	0.0190	0.0181	50	1-5/8	G40	1-1/4	

### 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.
- 4. G60 and G90 available upon request. Will require extended lead time and upcharge.

# Color Code (painted on ends): 18 mil: None

### **ASTM & Code Standards:**

- ASTM A653/A653M, A924/A924M, A1003/1003, C645 & C754
- ICC-ES & SFIA Code Compliance Certification Program
- ICC ESR-2620
- CBC: 2016, 2019, 2022
- IBC: 2015, 2018, 2021
- AISI: S100, S220
- ATI CCRR-0154

## **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%

# SAFETY EDGE "W" (WEB DEPTH) STEEL DESIGN THICKNESS (SEE TABLE)

# ViperTrack 1.25" Leg

							Gross Properties							Effective Properties			Torsional Properties				
Member	Leg Size (in)	Weight (lb/ft)	Design (in)	Min (in)	Yield (ksi)	Area (in²)	<b>Ix</b> (in <sup>4</sup> )	<b>Sx</b> (in³)	Rx (in)	<b>ly</b> (in <sup>4</sup> )	Sy (in³)	Ry (in)	<b>lxd</b> (in <sup>4</sup> )	Sxe (in³)	<b>Ma</b> (in-k)	<b>Xo</b> (in)	<b>Jx10</b> <sup>3</sup> (in <sup>4</sup> )	Cw (in)	Ro (in)	ß	
162VT125-18-50 (20EQ)	1.25	0.26	0.0190	0.0181	50	0.077	0.033	0.042	0.660	0.013	0.015	0.407	0.0190	0.0180	0.44	-0.878	0.0092	0.0060	1.170	0.438	

### Notes:

- 1. Section properties are in accordance with AISI S100-16/S2-20.
- 2. Cold-work of forming is not included.
- 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.
- 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