

250VT125-18-50 (20EQ) VIPERTRACK

Geometric Properties

2-1/2" 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)	Yield (ksi)	Web Depth (W) (in)	Coating ⁴	Flange (in)
250VT125-18-50 (20EQ)	0.0190	0.0181	50	2-1/2	G40	1-1/4

Notes:

- Uncoated steel thickness. Thickness is for carbon sheet steel.
- Minimum thickness represents 95% of the design thickness and is the minimum acceptable thickness.
- Per ASTM C645 & A1003.
- G60 and G90 available upon request. Will require extended lead time and upcharge.

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

ASTM & Code Standards:

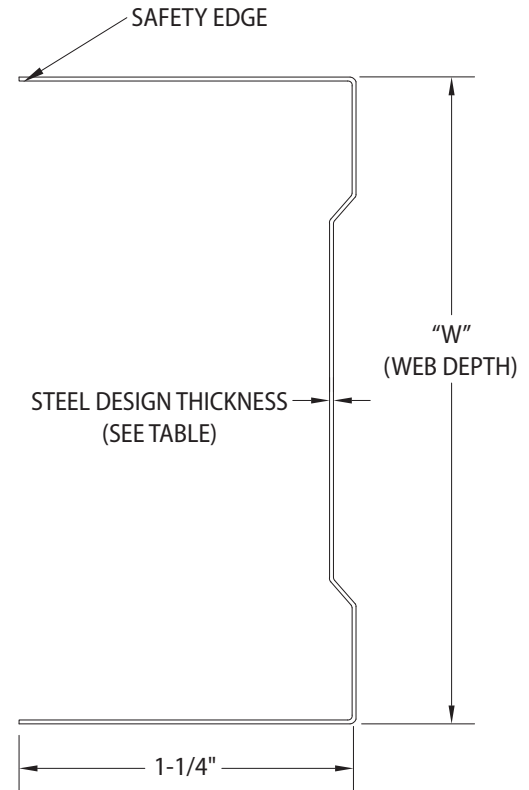
- ASTM A653/A653M, A924/A924M, A1003/1003, C645 & C754
- ICC-ES & SFIA Code Compliance Certification Program
- ICC ESR-2620
- CBC: 2013, 2016, 2019
- IBC: 2012, 2015, 2018, 2021
- AISI: S100, S220
- ATI CCRR-0154

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%



ViperTrack 1.25" Leg

Member	Leg Size (in)	Weight (lb/ft)	Design (in)	Min (in)	Yield (ksi)	Gross Properties						Effective Properties			Torsional Properties					
						Area (in ²)	I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	S _y (in ³)	R _y (in)	I _{xd} (in ⁴)	S _{xe} (in ³)	M _a (in-k)	X _o (in)	J _x 10 ³ (in ⁴)	C _w (in)	R _o (in)	β
250VT125-18-50 (20EQ)	1.25	0.32	0.0190	0.0181	50	0.093	0.091	0.073	0.986	0.014	0.016	0.392	0.0550	0.0350	0.88	-0.747	0.0011	0.0160	1.300	0.668

Notes:

- Section properties are in accordance with AISI S100 & S220.
- 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.
- The center line bend radius is greater than 2 times the design thickness or 3/32.
- Web-to-thickness ratio exceeds 200.
- Web-to-thickness ratio exceeds 260.
- Flange-width-to-thickness-ratio exceeds 60.