



Expanding Your Solutions

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INTERIOR NON-LOAD BEARING VIPERTRACKS®

Geometric Properties

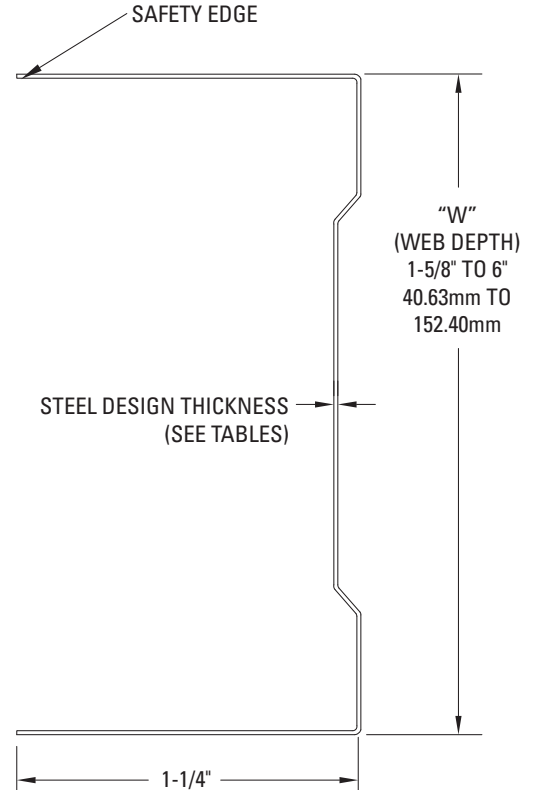
ViperTracks® are fabricated in 1-5/8", 2-1/2", 3-5/8", 4", and 6" widths with 1-1/4" legs from standard G40 hot-dipped galvanized steel.

Steel Thickness

Model No.	Design Thickness (in)	Minimum Thickness (in)	Yield (ksi)	Web Sizes (in)	Coating ^{4,5}	Flange (in)	Return Lip (in)
VIPER25	0.0155	0.0147	50	1-5/8, 2-1/2, 3-5/8, 4, 6	G40	1-1/4	1/4
VIPER 18mil	0.0188	0.0179	33	1-5/8, 2-1/2, 3-5/8, 4, 6	G40	1-1/4	1/4
VIPER20	0.0205	0.0195	57	1-5/8, 2-1/2, 3-5/8	G40	1-1/4	1/4
VIPER20	0.0220	0.0209	57	4, 6	G40	1-1/4	1/4
VIPER 30mil	0.0312	0.0296	33	1-5/8, 2-1/2, 3-5/8, 4, 6	G40	1-1/4	1/4
VIPER 33mil	0.0346	0.0329	33	1-5/8, 2-1/2, 3-5/8, 4, 6	G40	1-1/4	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, Table 1.
4. G60 and G90 available upon request. Will require extended lead time and upcharge.



Color Code (painted on ends)

- 15 mil: None with Dark Grey band on pallet
- 18 mil: None
- 20/21 mil: Brown
- 30 mil: Pink
- 33 mil: White

ASTM & Code Standards

- ASTM C645, A653/A653M, C754 (installation & storage), A924/A924M, A1003/A1003M/E119
- ICC-ES ESR-2620
- 2012/2015 IBC
- 2013/2016 CBC
- ICC-ES/SFIA Code Compliance Certification Program

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%

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 May 10, 2018.

05-10-18 AT



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INTERIOR NON-LOAD BEARING VIPERTRACKS®

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)	Jx10 ³ (in ⁴)	C _w (in ⁶)	R _o (in)	β
162VT125-15	1.25	0.22	0.0155	0.0147	50	0.064	0.035	0.040	0.736	0.011	0.013	0.412	0.022	0.018	0.53	-0.877	0.005	0.006	1.22	0.480
250VT125-15	1.25	0.26	0.0155	0.0147	50	0.078	0.086	0.066	1.050	0.012	0.013	0.400	0.054	0.027	0.80	-0.768	0.006	0.015	1.36	0.683
362VT125-15 ⁵	1.25	0.32	0.0155	0.0147	50	0.095	0.197	0.105	1.440	0.014	0.014	0.381	0.155	0.039	1.15	-0.665	0.008	0.035	1.63	0.833
400VT125-15 ⁵	1.25	0.34	0.0155	0.0147	50	0.101	0.247	0.120	1.560	0.014	0.014	0.374	0.141	0.043	1.27	-0.638	0.008	0.043	1.73	0.864
600VT125-15 ⁶	1.25	0.45	0.0155	0.0147	50	0.132	0.642	0.210	2.210	0.015	0.015	0.342	0.325	0.063	1.90	-0.523	0.011	0.109	2.29	0.948
162VT125-18	1.25	0.26	0.0188	0.0179	33	0.077	0.042	0.048	0.733	0.013	0.0149	0.411	0.030	0.025	0.50	-0.878	0.009	0.007	1.215	0.478
250VT125-18	1.25	0.32	0.0188	0.0179	33	0.094	0.105	0.080	1.057	0.015	0.0160	0.399	0.079	0.046	0.90	-0.766	0.011	0.018	1.366	0.685
362VT125-18	1.25	0.39	0.0188	0.0179	33	0.115	0.240	0.127	1.442	0.017	0.0168	0.380	0.192	0.066	1.30	-0.664	0.014	0.042	1.632	0.835
400VT125-18	1.25	0.42	0.0188	0.0179	33	0.122	0.300	0.145	1.566	0.017	0.0170	0.374	0.244	0.072	1.43	-0.636	0.014	0.053	1.731	0.865
600VT125-18 ^{6,7}	1.25	0.54	0.0188	0.0179	33	0.160	0.779	0.254	2.208	0.019	0.0176	0.342	-	-	-	-0.521	0.019	0.132	2.294	0.948
162VT125-20	1.25	0.29	0.0205	0.0195	50	0.085	0.046	0.052	0.737	0.014	0.017	0.411	0.031	0.027	0.79	-0.874	0.012	0.008	1.22	0.483
250VT125-20	1.25	0.35	0.0205	0.0195	50	0.103	0.114	0.087	1.060	0.016	0.018	0.399	0.081	0.045	1.33	-0.766	0.014	0.020	1.36	0.685
362VT125-20	1.25	0.43	0.0205	0.0195	50	0.123	0.261	0.139	1.440	0.018	0.018	0.380	0.179	0.064	1.92	-0.663	0.018	0.046	1.63	0.835
400VT125-21	1.25	0.49	0.0220	0.0209	50	0.143	0.351	0.170	1.570	0.02	0.020	0.373	0.246	0.081	2.41	-0.635	0.023	0.061	1.73	0.865
600VT125-21 ⁶	1.25	0.64	0.0220	0.0209	50	0.187	0.910	0.297	2.210	0.022	0.021	0.341	0.557	0.117	3.49	-0.520	0.030	0.154	2.29	0.949
162VT125-30	1.25	0.44	0.0312	0.0296	33	0.129	0.071	0.080	0.741	0.022	0.025	0.409	0.056	0.051	1.00	-0.868	0.042	0.012	1.21	0.488
250VT125-30	1.25	0.53	0.0312	0.0296	33	0.156	0.175	0.132	1.060	0.025	0.027	0.397	0.142	0.090	1.77	-0.760	0.051	0.030	1.36	0.689
362VT125-30	1.25	0.65	0.0312	0.0296	33	0.192	0.399	0.211	1.440	0.027	0.028	0.378	0.331	0.152	3.00	-0.658	0.062	0.069	1.63	0.837
400VT125-30	1.25	0.69	0.0312	0.0296	33	0.203	0.499	0.240	1.570	0.028	0.028	0.371	0.417	0.176	3.47	-0.631	0.066	0.086	1.73	0.867
600VT125-30	1.25	0.90	0.0312	0.0296	33	0.266	1.300	0.421	2.210	0.031	0.029	0.339	1.030	0.250	4.94	-0.517	0.086	0.216	2.29	0.949
162VT125-33	1.25	0.49	0.0346	0.0329	33	0.143	0.079	0.088	0.742	0.024	0.028	0.408	0.064	0.059	1.16	-0.866	0.057	0.013	1.21	0.489
250VT125-33	1.25	0.59	0.0346	0.0329	33	0.174	0.195	0.146	1.060	0.027	0.029	0.396	0.162	0.103	2.04	-0.758	0.069	0.033	1.36	0.690
362VT125-33	1.25	0.72	0.0346	0.0329	33	0.212	0.443	0.234	1.440	0.03	0.031	0.377	0.375	0.173	3.43	-0.657	0.085	0.077	1.63	0.838
400VT125-33	1.25	0.77	0.0346	0.0329	33	0.225	0.554	0.266	1.570	0.031	0.031	0.370	0.473	0.200	3.95	-0.629	0.090	0.096	1.73	0.868
600VT125-33	1.25	1.00	0.0346	0.0329	33	0.295	1.440	0.467	2.210	0.034	0.032	0.339	1.190	0.298	5.89	-0.516	0.118	0.239	2.29	0.949

- Notes:
- Section properties are in accordance with AISI S100-07.
 - Cold-work of forming is not included.
 - The effective moment of inertia for deflection is calculated based on AISI S100-07 procedure 1 for serviceability determination.
 - The center line bend radius is greater than 2 times the design thickness or 3/32.
 - Web depth-to-thickness ratio exceeds 200.
 - Web depth-to-thickness-ratio exceeds 260.
 - Flange-width-to-thickness-ratio exceeds 60.

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