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INTERIOR NON-LOAD BEARING DEEP LEG TRACKS

Geometric Properties

CEMCO's deep leg tracks are fabricated in 1-5/8", 2-1/2", 3-5/8", 4", and 6" widths with various legs 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.

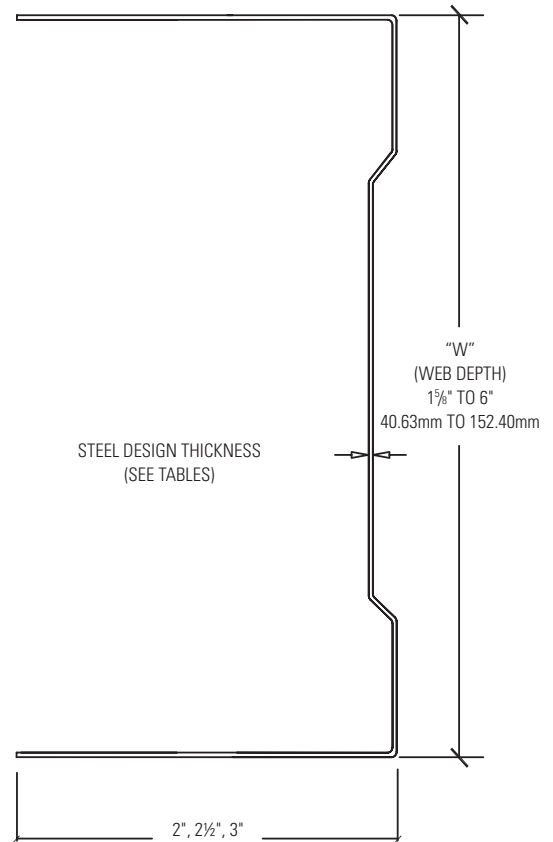
Steel Thickness

Model No.	Design Thickness (in)	Minimum Thickness (in)	Yield (ksi)	Coating ^{4,5}	Web Sizes (in)	Leg Size (in)	GAP (in)	Load (lb.)	Max Height 5 psf, 16" o.c.
Vipertrack25	0.0155	0.0147	50	G40	2-1/2, 3-5/8, 4, 6	2	1/2	34	10'-3"
Vipertrack18mil	0.0188	0.0179	33	G40	2-1/2, 3-5/8, 4, 6	2	1/2	33	9'-11"
Vipertrack20	0.0205	0.0195	50	G40	1-5/8, 2-1/2, 3-5/8	2	1/2	68	20'-6"
					2-1/2, 3-5/8	2-1/2	3/4	45	13'-8"
					2-1/2, 3-5/8	3	1	34	10'-3"
Vipertrack20	0.0220	0.0209	50	G40	4, 6	2	1/2	78	23'-8"
					4, 6	2-1/2	3/4	52	15'-9"
					4, 6	3	1	39	11'-10"
Vipertrack30mil	0.0312	0.0296	33	G40	1-5/8, 2-1/2, 3-5/8, 4, 6	2	1/2	91	27'-6"
					2-1/2, 3-5/8, 4, 6	2-1/2	3/4	61	18'-4"
					2-1/2, 3-5/8, 4, 6	3	1	45	13'-9"
Vipertrack33mil	0.0346	0.0329	33	G40	1-5/8, 2-1/2, 3-5/8, 4, 6	2	1/2	112	33'-10"
					2-1/2, 3-5/8, 4, 6	2-1/2	3/4	75	22'-7"
					2-1/2, 3-5/8, 4, 6	3	1	56	16'-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. Knockout size for 1-5/8" & 2-1/2" Stud is 3/4" x 1-3/4".
Knockout size for 3-5/8", 4", & 6" is 1-1/2" x 2-1/2".
4. Per ASTM C645 & A1003, Table 1.
5. 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 A653/A653M, A924/A924M, A1003/A1003M, C645, C754, E119
- 2012/2015 IBC
- 2013/2016 CBC

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

INTERIOR NON-LOAD BEARING DEEP LEG TRACKS

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)	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)	Ma (in-k)	X _o (in)	J _{x103} (in ⁴)	C _w (in ²)	R _o (in)	β
162VT200-15	2.00	0.30	0.0155	0.0147	50	0.087	0.052	0.060	0.773	0.038	0.030	0.663	0.025	0.017	0.50	-1.57	0.0070	0.0212	1.87	0.295
250VT200-15	2.00	0.34	0.0155	0.0147	50	0.101	0.126	0.096	1.117	0.044	0.032	0.662	0.060	0.026	0.79	-1.43	0.0081	0.0535	1.93	0.453
362VT200-15	2.00	0.40	0.0155	0.0147	50	0.118	0.278	0.148	1.533	0.050	0.034	0.648	0.127	0.039	1.16	-1.28	0.0095	0.1220	2.10	0.629
400VT200-15	2.00	0.42	0.0155	0.0147	50	0.124	0.345	0.167	1.667	0.051	0.034	0.642	0.155	0.043	1.28	-1.24	0.0100	0.1520	2.17	0.676
600VT200-15	2.00	0.53	0.0155	0.0147	50	0.155	0.859	0.281	2.353	0.057	0.036	0.608	0.357	0.065	1.93	-1.06	0.0124	0.3840	2.65	0.841
250VT200-18'	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
362VT200-18'	2.00	0.4882	0.0188	0.0179	33	0.1435	0.3387	0.1799	1.5365	0.0601	0.0407	0.6474	--	--	--	-1.2770	0.0169	0.1490	2.100	0.630
400VT200-18'	2.00	0.5122	0.0188	0.0179	33	0.1505	0.4199	0.2028	1.6702	0.0620	0.0412	0.6415	--	--	--	-1.2350	0.0177	0.1859	2.174	0.677
600VT200-18'	2.00	0.6400	0.0188	0.0179	33	0.1881	1.0389	0.3394	2.3503	0.0693	0.0434	0.6072	--	--	--	-1.0550	0.0222	0.4636	2.647	0.841
162VT200-20	2.00	0.39	0.0205	0.0195	50	0.116	0.069	0.079	0.775	0.051	0.039	0.662	0.036	0.027	0.91	-1.57	0.0162	0.0280	1.87	0.296
250VT200-20	2.00	0.45	0.0205	0.0195	50	0.134	0.167	0.127	1.118	0.058	0.042	0.661	0.091	0.041	1.41	-1.42	0.0187	0.0710	1.93	0.454
362VT200-20	2.00	0.53	0.0205	0.0195	50	0.157	0.369	0.196	1.534	0.066	0.045	0.647	0.190	0.060	2.06	-1.28	0.0219	0.1610	2.10	0.630
400VT200-21	2.00	0.60	0.0220	0.0209	50	0.176	0.491	0.237	1.670	0.072	0.048	0.641	0.261	0.076	2.59	-1.23	0.0284	0.2160	2.17	0.677
600VT200-21	2.00	0.75	0.0220	0.0209	50	0.220	1.221	0.398	2.350	0.081	0.051	0.606	0.602	0.115	3.91	-1.05	0.0355	0.5440	2.65	0.842
162VT200-30	2.00	0.60	0.0312	0.0296	33	0.176	0.107	0.120	0.779	0.077	0.059	0.660	0.069	0.055	1.09	-1.56	0.0571	0.0431	1.87	0.299
250VT200-30	2.00	0.69	0.0312	0.0296	33	0.203	0.256	0.193	1.120	0.088	0.064	0.659	0.174	0.098	1.94	-1.42	0.0659	0.1080	1.92	0.457
362VT200-30	2.00	0.81	0.0312	0.0296	33	0.238	0.563	0.298	1.540	0.099	0.075	0.645	0.400	0.167	3.29	-1.27	0.0773	0.2460	2.10	0.633
400VT200-30	2.00	0.85	0.0312	0.0296	33	0.250	0.698	0.336	1.670	0.102	0.068	0.639	0.502	0.188	3.71	-1.23	0.0811	0.3060	2.17	0.680
600VT200-30	2.00	1.06	0.0312	0.0296	33	0.312	1.735	0.564	2.360	0.114	0.072	0.605	1.270	0.276	5.45	-1.05	0.1010	0.7690	2.65	0.843
162VT200-33	2.00	0.66	0.0346	0.0329	33	0.195	0.119	0.133	0.780	0.085	0.066	0.660	0.080	0.064	1.27	-1.56	0.0779	0.0480	1.87	0.300
250VT200-33	2.00	0.77	0.0346	0.0329	33	0.225	0.284	0.214	1.120	0.098	0.071	0.658	0.199	0.113	2.23	-1.42	0.0899	0.1200	1.92	0.458
362VT200-33	2.00	0.90	0.0346	0.0329	33	0.264	0.626	0.330	1.540	0.110	0.075	0.644	0.455	0.191	3.76	-1.27	0.1050	0.2720	2.10	0.634
400VT200-33	2.00	0.94	0.0346	0.0329	33	0.277	0.775	0.373	1.670	0.113	0.076	0.638	0.570	0.220	4.34	-1.23	0.1110	0.3400	2.17	0.680
600VT200-33	2.00	1.18	0.0346	0.0329	33	0.347	1.930	0.625	2.360	0.126	0.080	0.604	1.480	0.338	6.69	-1.05	0.1380	0.8520	2.65	0.844

Vipertrack 2.50" Leg

Member	Leg Size (in)	Gross Properties					Effective Properties						Torsional Properties							
		Weight (lb/ft)	Design (in)	Min (in)	Yield (ksi)	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)	Ma (in-k)	X _o (in)	J _{x103} (in ⁴)	C _w (in ²)	R _o (in)	β
162VT250-20	2.50	0.46	0.0205	0.0195	50	0.136	0.085	0.097	0.790	0.092	0.059	0.823	0.039	0.026	0.88	-2.05	0.0191	0.0520	2.35	0.237
250VT250-20	2.50	0.52	0.0205	0.0195	50	0.154	0.202	0.153	1.150	0.106	0.064	0.830	0.094	0.041	1.40	-1.89	0.0216	0.1300	2.36	0.360
362VT250-20	2.50	0.60	0.0205	0.0195	50	0.177	0.440	0.234	1.580	0.120	0.068	0.822	0.200	0.060	2.06	-1.71	0.0248	0.2950	2.47	0.519
400VT250-21	2.50	0.68	0.0220	0.0209	50	0.198	0.584	0.282	1.720	0.132	0.074	0.817	0.274	0.076	2.58	-1.66	0.0320	0.3950	2.53	0.566
600VT250-21	2.50	0.82	0.0220	0.0209	50	0.242	1.430	0.465	2.430	0.150	0.078	0.785	0.630	0.115	3.92	-1.45	0.0391	0.9890	2.93	0.757
162VT250-30	2.50	0.71	0.0312	0.0296	33	0.207	0.131	0.147	0.794	0.140	0.090	0.822	0.076	0.057	1.13	-2.04	0.0672	0.0800	2.34	0.239
250VT250-30	2.50	0.80	0.0312	0.0296	33	0.234	0.310	0.233	1.150	0.161	0.097	0.828	0.190	0.102	2.01	-1.88	0.0761	0.1990	2.35	0.363
362VT250-30	2.50	0.92	0.0312	0.0296	33	0.270	0.673	0.356	1.580	0.181	0.102	0.820	0.437	0.167	3.30	-1.71	0.0875	0.4490	2.47	0.521
400VT250-30	2.50	0.96	0.0312	0.0296	33	0.281	0.831	0.400	1.720	0.187	0.104	0.816	0.548	0.185	3.66	-1.66	0.0913	0.5600	2.52	0.568
600VT250-30	2.50	1.17	0.0312	0.0296	33	0.344	2.030	0.659	2.430	0.211	0.110	0.784	1.330	0.275	5.43	-1.44	0.1120	1.4000	2.93	0.758
162VT250-33	2.50	0.78	0.0346	0.0329	33	0.230	0.145	0.163	0.796	0.155	0.100	0.821	0.088	0.066	1.31	-2.04	0.0917	0.0890	2.34	0.239
250VT250-33	2.50	0.89	0.0346	0.0329	33	0.260	0.344	0.258	1.150	0.178	0.107	0.827	0.218	0.117	2.32	-1.88	0.1040	0.2210	2.35	0.363
362VT250-33	2.50	1.02	0.0346	0.0329	33	0.299	0.748	0.395	1.580	0.201	0.114	0.820	0.498	0.198	3.92	-1.71	0.1190	0.4980	2.47	0.522
400VT250-33	2.50	1.06	0.0346	0.0329	33	0.312	0.923	0.443	1.720	0.207	0.115	0.815	0.623	0.226	4.46	-1.66	0.1240	0.6210	2.52	0.569
600VT250-33	2.50	1.30	0.0346	0.0329	33	0.381	2.250	0.730	2.430	0.234	0.122	0.783	1.580	0.336	6.64	-1.44	0.1520	1.5500	2.93	0.759

Vipertrack 3.00" Leg

Member	Leg Size (in)	Gross Properties					Effective Properties						Torsional Properties							
		Weight (lb/ft)	Design (in)	Min (in)	Yield (ksi)	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)	Ma (in-k)	X _o (in)	J _{x103} (in ⁴)	C _w (in ²)	R _o (in)	β
162VT300-20	3.00	0.53	0.0205	0.0195	50	0.157	0.100	0.114	0.801	0.151	0.083	0.981	0.041	0.028	0.95	-2.53	0.0219	0.0870	2.83	0.200
250VT300-20	3.00	0.59	0.0205	0.0195	50	0.175	0.237	0.180	1.170	0.173	0.089	0.995	0.098	0.041	1.39	-2.36	0.0245	0.2160	2.81	0.298
362VT300-20	3.00	0.67	0.0205	0.0195	50	0.198	0.512	0.272	1.610	0.195	0.095	0.994	0.207	0.060	2.05	-2.17	0.0277	0.4840	2.87	0.433
400VT300-21	3.00	0.75	0.0220	0.0209	50	0.220	0.677	0.327	1.750	0.216	0.103	0.991	0.284	0.076	2.58	-2.11	0.0355	0.6470	2.92	0.477
600VT300-21	3.00	0.90	0.0220	0.0209	50	0.264	1.630	0.532	2.490	0.245	0.109	0.964	0.653	0.115	3.92	-1.86	0.0426	1.6100	3.25	0.673
162VT300-30	3.00	0.81	0.0312	0.0296	33	0.238	0.155	0.174	0.805	0.229	0.126	0.980	0.081	0.058	1.15	-2.53	0.0773	0.1340	2.83	0.201
250VT300-30	3.00	0.90	0.0312	0.0296	33	0.266	0.363	0.274	1.170	0.262	0.135	0.993	0.204	0.104	2.06	-2.35	0.0862	0.3290	2.80	0.299
362VT300-30	3.00	1.02	0.0312	0.0296	33	0.301	0.783	0.414	1.610	0.296	0.144	0.992	0.469	0.165	3.25	-2.16	0.0976	0.7380	2.87	0.435
400VT300-30	3.00	1.06	0.0312	0.0296	33	0.312	0.964	0.464	1.760	0.306	0.146	0.989	0.587	0.183	3.61	-2.10	0.1010	0.9180	2.91	0.479
600VT300-30	3.00	1.28	0.0312	0.0296	33	0.375	2.320	0.754	2.490	0.347	0.155	0.962	1.380	0.274	5.41	-1.85	0.1220	2.2900	3.25	0.674
162VT300-33	3.00	0.90	0.0346	0.0329	33	0.264	0.172	0.192	0.807	0.254	0.139	0.979	0.094	0.068	1.34	-2.52	0.1050	0.1490	2.82	0.202
250VT300-33	3.00	1.00	0.0346	0.0329	33	0.295	0.404	0.303	1.170	0.290										