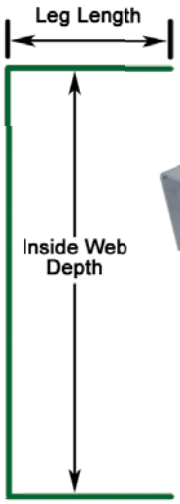

Material Composition

ASTM A1003/A 1003M Non Structural Grade 33 (230), 33 ksi (230 MPa) minimum yield strength, G40 (Z120) hot-dipped galvanized coating, or equivalent conforming to ASTM C645. Other steel materials with G40 coating are also available upon request.

Important Table Notes

1. Calculated properties are based on AISI S100-07, North American Specification for the Design of Cold-Formed Steel Structural Members.
2. The centerline bend radius is based upon inside corner radii shown in the Thickness Table in SFIA Technical Guide for Cold-Formed Steel Framing Products.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI S100-07 Sec. A7.2.
4. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the tracks.
5. For deflection calculations, use the effective moment of inertia.

Non-Structural PrimeWall® Track Section Properties																		
Section	Design Thickness	Gross							Effective - 33ksi				Torsional					
		Area	Weight	I_x	S_x	R_x	I_y	R_y	I_x	S_x	M_a	V_{ag}	Jx1000	C_w	X_o	m	R_o	β
	(in)	(in^2)	(lb/ft)	(in^4)	(in^3)	(in)	(in^4)	(in)	(in^4)	(in^3)	(in-k)	(lb)	(in^4)	(in^6)	(in)	(in)	(in)	
162T125-18	0.0188	0.078	0.26	0.042	0.048	0.733	0.013	0.411	0.030	0.025	0.50	302	0.009	0.007	-0.876	0.503	1.215	0.479
162T125-27	0.0283	0.117	0.40	0.063	0.072	0.735	0.020	0.410	0.051	0.044	0.87	541	0.031	0.010	-0.872	0.501	1.211	0.482
162T125-30	0.0312	0.129	0.44	0.070	0.079	0.735	0.022	0.409	0.057	0.050	1.00	597	0.042	0.012	-0.870	0.500	1.210	0.483
250T125-18	0.0188	0.094	0.32	0.104	0.079	1.052	0.015	0.400	0.078	0.044	0.88	245	0.011	0.018	-0.767	0.460	1.362	0.682
250T125-27	0.0283	0.141	0.48	0.157	0.119	1.053	0.022	0.398	0.129	0.079	1.56	685	0.038	0.027	-0.763	0.457	1.360	0.685
250T125-30	0.0312	0.156	0.53	0.173	0.131	1.053	0.025	0.397	0.145	0.090	1.77	832	0.051	0.030	-0.762	0.456	1.359	0.686
350T125-18	0.0188	0.113	0.38	0.220	0.121	1.395	0.017	0.382	0.174	0.062	1.22	173	0.013	0.038	-0.675	0.418	1.596	0.821
350T125-27	0.0283	0.170	0.58	0.331	0.182	1.396	0.025	0.381	0.277	0.128	2.53	590	0.045	0.057	-0.670	0.416	1.595	0.823
350T125-30	0.0312	0.187	0.64	0.365	0.200	1.396	0.027	0.380	0.312	0.145	2.86	790	0.061	0.063	-0.669	0.415	1.594	0.824
362T125-18	0.0188	0.115	0.39	0.238	0.127	1.437	0.017	0.380	0.189	0.064	1.26	167	0.014	0.042	-0.665	0.413	1.628	0.833
362T125-27	0.0283	0.173	0.59	0.358	0.191	1.438	0.025	0.378	0.301	0.135	2.66	569	0.046	0.062	-0.661	0.411	1.627	0.835
362T125-30	0.0312	0.191	0.65	0.395	0.210	1.438	0.027	0.378	0.339	0.152	3.01	762	0.062	0.068	-0.659	0.410	1.627	0.836
400T125-18[1]	0.0188	0.122	0.42	0.298	0.145	1.562	0.017	0.374	0.241	0.070	1.39	151	0.014	0.052	-0.637	0.400	1.727	0.864
400T125-27	0.0283	0.184	0.63	0.449	0.217	1.562	0.025	0.372	0.380	0.156	3.08	515	0.049	0.078	-0.633	0.398	1.726	0.866
400T125-30	0.0312	0.203	0.69	0.495	0.239	1.563	0.028	0.371	0.427	0.176	3.49	689	0.066	0.085	-0.632	0.397	1.726	0.866
550T125-27	0.0283	0.226	0.77	1.045	0.336	2.046	0.027	0.348	0.786	0.192	3.79	372	0.060	0.160	-0.543	0.352	2.146	0.936
550T125-30	0.0312	0.250	0.85	1.159	0.371	2.047	0.030	0.347	0.897	0.226	4.47	499	0.081	0.176	-0.542	0.351	2.145	0.936
600T125-27[1]	0.0283	0.241	0.82	1.169	0.381	2.204	0.028	0.340	0.958	0.211	4.16	341	0.064	0.196	-0.519	0.339	2.290	0.949
600T125-30	0.0312	0.265	0.90	1.288	0.420	2.204	0.031	0.340	1.095	0.249	4.92	456	0.086	0.215	-0.518	0.338	2.290	0.949

[1] Web height to thicknes ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.