SSMA.dbs Section Properties
4/10/2007

2004 Specification

Steel-Con

STEEL CONSTRUCTION SYSTEMS
TRACKS

Member	Design Thickness	Area	Weight	Gross Ix	Gross Sx	Gross Rx	Gross Iy	Gross Ry	Effective Properties 33 ksi Ix	Sx	Ma	Vag	Effective Properties 50 ksi Ix	Sx	Ma	Vag	Torsional Properties Jx1000	Cw	Xo	m	Ro	Beta
	(in)	(in^2)	(lb/ft)	(in^4)	(in^3)	(in)	(in^4)		(in^4)	(in^3)	(in-k)	(lb)	(in^4)	(in^3)	(in-k)	(lb)	(in^4)	(in^5)	(in)	(in)	(in)	
162T125-18	0.0188	0.077	0.26	0.041	0.047	0.733	0.013	0.411	0.03	0.025	0.5	302					0.009	0.007	-0.878	0.503	1.215	0.478
162T125-27	0.0283	0.117	0.4	0.063	0.072	0.735	0.02	0.41	0.05	0.044	0.87	541					0.031	0.01	-0.872	0.501	1.211	0.482
162T125-30	0.0312	0.129	0.44	0.07	0.079	0.735	0.022	0.409	0.057	0.05	1	597					0.042	0.012	-0.87	0.5	1.21	0.483
162T125-33	0.0346	0.143	0.49	0.077	0.087	0.736	0.024	0.408	0.066	0.058	1.15	663					0.057	0.013	-0.868	0.499	1.209	0.484
250T125-18	0.0188	0.094	0.32	0.103	0.079	1.051	0.015	0.4	0.078	0.045	0.9	249					0.011	0.018	-0.769	0.46	1.362	0.681
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	1.36	0.685
250T125-30	0.0312	0.156	0.53	0.173	0.131	1.053	0.025	0.397	0.145	0.09	1.77	832					0.051	0.03	-0.762	0.456	1.359	0.686
250T125-33	0.0346	0.173	0.59	0.192	0.145	1.054	0.027	0.397	0.166	0.103	2.03	1024					0.069	0.033	-0.76	0.456	1.358	0.687
250T125-43	0.0451	0.225	0.77	0.25	0.188	1.055	0.035	0.395	0.231	0.147	2.91	1356					0.153	0.042	-0.755	0.453	1.356	0.69
250T125-54	0.0566	0.282	0.96	0.318	0.236	1.062	0.043	0.392	0.31	0.203	4.01	1692	0.297	0.188	5.64	2563	0.301	0.054	-0.749	0.449	1.357	0.696
250T125-68	0.0713	0.355	1.21	0.408	0.297	1.072	0.054	0.389	0.408	0.281	5.56	2111	0.402	0.262	7.85	3199	0.602	0.069	-0.74	0.444	1.36	0.704
250T150-27	0.0283	0.156	0.53	0.181	0.137	1.078	0.037	0.486	0.139	0.082	1.61	685					0.042	0.044	-0.976	0.575	1.534	0.595
250T150-30	0.0312	0.172	0.58	0.199	0.151	1.078	0.04	0.486	0.157	0.093	1.83	832					0.056	0.049	-0.975	0.574	1.533	0.595
250T150-33	0.0346	0.19	0.65	0.221	0.167	1.079	0.045	0.485	0.179	0.107	2.11	1024					0.076	0.054	-0.973	0.573	1.532	0.596
250T150-43	0.0451	0.248	0.84	0.289	0.217	1.08	0.058	0.483	0.252	0.154	3.03	1356					0.168	0.07	-0.968	0.57	1.529	0.599
250T150-54	0.0566	0.311	1.06	0.368	0.273	1.088	0.072	0.481	0.342	0.213	4.22	1692	0.325	0.197	5.89	2563	0.332	0.089	-0.961	0.566	1.529	0.605
250T150-68	0.0713	0.391	1.33	0.472	0.344	1.099	0.089	0.478	0.465	0.299	5.92	2111	0.445	0.276	8.27	3199	0.663	0.114	-0.953	0.561	1.531	0.613
250T200-33	0.0346	0.225	0.76	0.28	0.212	1.117	0.097	0.658	0.203	0.112	2.22	1024					0.09	0.118	-1.418	0.813	1.921	0.455
250T200-43	0.0451	0.293	1	0.366	0.275	1.118	0.126	0.657	0.288	0.163	3.21	1356					0.198	0.153	-1.413	0.81	1.918	0.457
250T200-54	0.0566	0.367	1.25	0.466	0.346	1.127	0.157	0.654	0.396	0.228	4.51	1692	0.371	0.209	6.25	2563	0.392	0.195	-1.405	0.806	1.917	0.462
250T200-68	0.0713	0.462	1.57	0.6	0.437	1.139	0.196	0.652	0.548	0.324	6.41	2111	0.517	0.296	8.86	3199	0.783	0.251	-1.396	0.8	1.916	0.469
350T125-18	0.0188	0.113	0.38	0.219	0.121	1.394	0.016	0.383	0.174	0.063	1.25	175					0.013	0.038	-0.675	0.418	1.595	0.821
350T125-27	0.0283	0.17	0.58	0.331	0.182	1.396	0.025	0.381	0.277	0.128	2.53	590					0.045	0.057	-0.67	0.416	1.595	0.823
350T125-30	0.0312	0.187	0.64	0.365	0.2	1.396	0.027	0.38	0.312	0.145	2.86	790					0.061	0.063	-0.669	0.415	1.594	0.824
350T125-33	0.0346	0.207	0.71	0.405	0.222	1.397	0.03	0.379	0.354	0.165	3.27	1024					0.083	0.07	-0.668	0.414	1.594	0.824
350T125-43	0.0451	0.27	0.92	0.528	0.288	1.397	0.038	0.377	0.49	0.233	4.61	1739					0.183	0.09	-0.663	0.412	1.592	0.826
350T125-54	0.0566	0.339	1.15	0.668	0.361	1.404	0.048	0.375	0.651	0.317	6.26	2392	0.626	0.297	8.89	3372	0.362	0.114	-0.658	0.408	1.595	0.83
350T125-68	0.0713	0.427	1.45	0.851	0.454	1.412	0.059	0.372	0.851	0.433	8.55	2994	0.839	0.407	12.18	4536	0.723	0.144	-0.65	0.403	1.599	0.835
350T150-27	0.0283	0.184	0.63	0.377	0.207	1.431	0.041	0.47	0.298	0.132	2.62	590					0.049	0.094	-0.869	0.529	1.739	0.75
350T150-30	0.0312	0.203	0.69	0.416	0.228	1.432	0.045	0.469	0.336	0.15	2.96	790					0.066	0.103	-0.867	0.528	1.739	0.751
350T150-33	0.0346	0.225	0.76	0.461	0.253	1.432	0.049	0.469	0.382	0.171	3.39	1024					0.09	0.114	-0.866	0.527	1.738	0.752
350T150-43	0.0451	0.293	1	0.601	0.328	1.433	0.064	0.467	0.531	0.243	4.8	1739					0.198	0.148	-0.861	0.525	1.736	0.754
350T150-54	0.0566	0.367	1.25	0.761	0.412	1.44	0.079	0.465	0.712	0.332	6.57	2392	0.679	0.31	9.28	3372	0.392	0.187	-0.855	0.521	1.738	0.758
350T150-68	0.0713	0.462	1.57	0.972	0.518	1.45	0.099	0.462	0.957	0.459	9.07	2994	0.919	0.428	12.81	4536	0.783	0.238	-0.847	0.516	1.741	0.763
350T200-33	0.0346	0.259	0.88	0.574	0.315	1.487	0.108	0.647	0.428	0.181	3.57	1024					0.103	0.249	-1.285	0.761	2.069	0.614
350T200-43	0.0451	0.338	1.15	0.749	0.409	1.489	0.14	0.645	0.6	0.257	5.09	1739					0.229	0.323	-1.28	0.758	2.066	0.616
350T200-54	0.0566	0.424	1.44	0.949	0.513	1.496	0.175	0.642	0.814	0.355	7.01	2392	0.77	0.329	9.85	3372	0.453	0.409	-1.273	0.754	2.067	0.621
350T200-68	0.0713	0.534	1.82	1.213	0.647	1.508	0.218	0.639	1.112	0.496	9.8	2994	1.054	0.458	13.71	4536	0.904	0.522	-1.264	0.749	2.069	0.626
362T125-18	0.0188	0.115	0.39	0.237	0.126	1.435	0.017	0.38	0.189	0.065	1.29	169					0.014	0.042	-0.665	0.413	1.627	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	0.21	1.438	0.027	0.378	0.339	0.152	3.01	762					0.062	0.068	-0.659	0.41	1.626	0.836
362T125-33	0.0346	0.212	0.72	0.438	0.232	1.438	0.03	0.377	0.384	0.174	3.44	1024					0.085	0.076	-0.658	0.409	1.626	0.836
362T125-43	0.0451	0.276	0.94	0.571	0.302	1.439	0.039	0.375	0.531	0.245	4.84	1739					0.187	0.098	-0.654	0.407	1.625	0.838
362T125-54	0.0566	0.346	1.18	0.723	0.378	1.445	0.048	0.373	0.705	0.332	6.57	2480	0.678	0.312	9.34	3372	0.369	0.123	-0.648	0.404	1.627	0.841
362T125-68	0.0713	0.436	1.48	0.921	0.475	1.454	0.06	0.37	0.921	0.453	8.95	3104	0.907	0.427	12.78	4703	0.738	0.156	-0.641	0.399	1.631	0.846
362T150-27	0.0283	0.187	0.64	0.408	0.217	1.475	0.041	0.468	0.323	0.14	2.76	569					0.05	0.102	-0.857	0.524	1.769	0.765
362T150-30	0.0312	0.207	0.7	0.449	0.239	1.475	0.045	0.467	0.364	0.158	3.12	762					0.067	0.112	-0.856	0.523	1.768	0.766
362T150-33	0.0346	0.229	0.78	0.499	0.264	1.475	0.05	0.467	0.414	0.18	3.56	1024					0.091	0.124	-0.854	0.522	1.767	0.766
362T150-43	0.0451	0.298	1.02	0.65	0.343	1.476	0.064	0.465	0.574	0.255	5.04	1739					0.202	0.16	-0.85	0.519	1.766	0.768
362T150-54	0.0566	0.374	1.27	0.823	0.431	1.483	0.08	0.462	0.769	0.349	6.89	2480	0.735	0.325	9.74	3372	0.4	0.202	-0.844	0.516	1.768	0.772
362T150-68	0.0713	0.471	1.6	1.05	0.542	1.492	0.099	0.459	1.034	0.48	9.49	3104	0.993	0.449	13.43	4703	0.799	0.257	-0.836	0.511	1.771	0.777
362T200-33	0.0346	0.264	0.9	0.619	0.328	1.532	0.11	0.645	0.464	0.19	3.76	1024					0.105	0.269	-1.27	0.754	2.092	0.631
362T200-43	0.0451	0.343	1.17	0.808	0.427	1.534	0.142	0.643	0.649	0.27	5.34	1739					0.233	0.35	-1.265	0.752	2.09	0.633
362T200-54	0.0566	0.431	1.47	1.024	0.536	1.541	0.177	0.64	0.879	0.372	7.35	2480	0.832	0.345	10.34	3372	0.46	0.442	-1.259	0.748	2.091	0.637
362T200-68	0.0713	0.543	1.85	1.307	0.675	1.552	0.221	0.638	1.199	0.519	10.26	3104	1.138	0.48	14.37	4703	0.919	0.564	-1.25	0.743	2.093	0.643

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Member	Design Thickness	Area	Weight	Gross Ix	Gross Sx	Gross Rx	Gross Iy	Gross Ry	Effective Properties 33 ksi Ix	Sx	Ma	Vag	Effective Properties 50 ksi Ix	Sx	Ma	Vag	Torsional Properties Jx1000	Cw	Xo	m	Ro	Beta
	(in)	(in^2)	(lb/ft)	(in^4)	(in^3)	(in)	(in^4)		(in^4)	(in^3)	(in-k)	(lb)	(in^4)	(in^3)	(in-k)	(lb)	(in^4)	(in^5)	(in)	(in)	(in)	
400T125-18[1]	0.0188	0.122	0.41	0.297	0.144	1.56	0.017	0.374	0.241	0.072	1.42	153					0.014	0.052	-0.637	0.4	1.726	0.864
400T125-27	0.0283	0.184	0.63	0.449	0.217	1.562	0.025	0.372	0.38	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	1.562	0.028	0.371	0.427	0.176	3.49	689					0.066	0.085	-0.632	0.397	1.726	0.866
400T125-33	0.0346	0.225	0.76	0.549	0.265	1.563	0.031	0.371	0.484	0.201	3.97	940					0.09	0.095	-0.63	0.396	1.725	0.867
400T125-43	0.0451	0.293	1	0.716	0.344	1.563	0.04	0.369	0.666	0.282	5.57	1739					0.198	0.122	-0.626	0.394	1.724	0.868
400T125-54	0.0566	0.367	1.25	0.904	0.431	1.569	0.049	0.366	0.882	0.381	7.53	2739	0.849	0.359	10.74	3372	0.392	0.154	-0.621	0.39	1.727	0.871
400T125-68	0.0713	0.462	1.57	1.15	0.541	1.577	0.061	0.363	1.15	0.517	10.22	3435	1.134	0.488	14.62	5205	0.783	0.194	-0.614	0.386	1.731	0.874
400T150-27	0.0283	0.198	0.67	0.509	0.246	1.602	0.042	0.461	0.409	0.154	3.04	515					0.053	0.127	-0.824	0.509	1.86	0.804
400T150-30	0.0312	0.218	0.74	0.561	0.271	1.603	0.046	0.461	0.458	0.183	3.61	689					0.071	0.14	-0.823	0.508	1.859	0.804
400T150-33	0.0346	0.242	0.82	0.622	0.3	1.603	0.051	0.46	0.519	0.208	4.12	940					0.097	0.155	-0.821	0.507	1.859	0.805
400T150-43	0.0451	0.315	1.07	0.811	0.39	1.604	0.066	0.458	0.719	0.293	5.8	1739					0.214	0.2	-0.817	0.504	1.857	0.807
400T150-54	0.0566	0.396	1.35	1.025	0.489	1.61	0.082	0.456	0.96	0.399	7.89	2739	0.918	0.374	11.19	3372	0.422	0.252	-0.811	0.501	1.86	0.81
400T150-68	0.0713	0.498	1.69	1.306	0.615	1.619	0.102	0.453	1.286	0.548	10.82	3435	1.237	0.513	15.35	5205	0.844	0.32	-0.804	0.496	1.864	0.814
400T200-33	0.0346	0.277	0.94	0.768	0.371	1.666	0.113	0.639	0.581	0.22	4.34	940					0.11	0.336	-1.229	0.737	2.166	0.678
400T200-43	0.0451	0.36	1.23	1.002	0.482	1.668	0.146	0.637	0.811	0.311	6.14	1739					0.244	0.436	-1.224	0.734	2.164	0.68
400T200-54	0.0566	0.452	1.54	1.268	0.604	1.675	0.182	0.635	1.093	0.426	8.42	2739	1.037	0.397	11.88	3372	0.483	0.551	-1.217	0.73	2.165	0.684
400T200-68	0.0713	0.569	1.94	1.617	0.761	1.685	0.227	0.632	1.485	0.591	11.68	3435	1.412	0.549	16.42	5205	0.965	0.702	-1.209	0.725	2.168	0.689
550T125-27	0.0283	0.226	0.77	0.948	0.336	2.046	0.027	0.348	0.786	0.192	3.79	372					0.06	0.16	-0.543	0.352	2.145	0.936
550T125-30	0.0312	0.25	0.85	1.045	0.37	2.046	0.03	0.347	0.897	0.226	4.47	499					0.081	0.176	-0.542	0.351	2.145	0.936
550T125-33	0.0346	0.277	0.94	1.159	0.41	2.046	0.033	0.346	1.029	0.27	5.33	680					0.11	0.195	-0.541	0.35	2.145	0.936
550T125-43	0.0451	0.36	1.23	1.51	0.533	2.047	0.043	0.344	1.428	0.416	8.23	1504					0.244	0.252	-0.537	0.348	2.144	0.937
550T125-54	0.0566	0.452	1.54	1.903	0.668	2.052	0.053	0.342	1.862	0.597	11.8	2739	1.811	0.535	16.01	2980	0.483	0.315	-0.532	0.345	2.147	0.939
550T125-68	0.0713	0.569	1.94	2.412	0.839	2.058	0.066	0.339	2.412	0.807	15.95	4347	2.379	0.769	23.02	5350	0.965	0.397	-0.526	0.341	2.152	0.94
550T150-27	0.0283	0.241	0.82	1.059	0.376	2.098	0.046	0.436	0.893	0.207	4.1	372					0.064	0.263	-0.716	0.456	2.259	0.9
550T150-30	0.0312	0.265	0.9	1.168	0.414	2.098	0.05	0.435	0.995	0.251	4.96	499					0.086	0.289	-0.715	0.455	2.259	0.9
550T150-33	0.0346	0.294	1	1.295	0.459	2.099	0.055	0.434	1.115	0.31	6.12	680					0.117	0.32	-0.714	0.455	2.259	0.9
550T150-43	0.0451	0.383	1.3	1.688	0.596	2.099	0.072	0.432	1.516	0.468	9.25	1504					0.26	0.414	-0.709	0.452	2.258	0.901
550T150-54	0.0566	0.48	1.63	2.128	0.747	2.105	0.089	0.43	2.005	0.628	12.41	2739	1.928	0.595	17.81	2980	0.513	0.519	-0.704	0.449	2.261	0.903
550T150-68	0.0713	0.605	2.06	2.699	0.939	2.112	0.11	0.427	2.66	0.85	16.8	4347	2.569	0.804	24.07	5350	1.025	0.655	-0.698	0.445	2.265	0.905
550T200-33	0.0346	0.329	1.12	1.567	0.555	2.184	0.123	0.613	1.246	0.307	6.06	680					0.131	0.694	-1.088	0.674	2.516	0.813
550T200-43	0.0451	0.428	1.46	2.043	0.722	2.185	0.16	0.611	1.69	0.495	9.79	1504					0.29	0.9	-1.083	0.671	2.514	0.814
550T200-54	0.0566	0.537	1.83	2.578	0.905	2.191	0.199	0.609	2.253	0.669	13.21	2739	2.153	0.63	18.86	2980	0.573	1.133	-1.077	0.668	2.517	0.817
550T200-68	0.0713	0.676	2.3	3.274	1.139	2.2	0.248	0.606	3.027	0.914	18.06	4347	2.894	0.857	25.67	5350	1.146	1.434	-1.07	0.663	2.521	0.82
600T125-27[1]	0.0283	0.241	0.82	1.168	0.381	2.204	0.028	0.34	0.958	0.21	4.16	341					0.064	0.196	-0.519	0.339	2.29	0.949
600T125-30	0.0312	0.265	0.9	1.288	0.419	2.204	0.031	0.34	1.095	0.249	4.92	456					0.086	0.215	-0.518	0.338	2.289	0.949
600T125-33	0.0346	0.294	1	1.428	0.465	2.204	0.034	0.339	1.258	0.297	5.87	622					0.117	0.238	-0.516	0.337	2.289	0.949
600T125-43	0.0451	0.383	1.3	1.861	0.604	2.205	0.044	0.337	1.768	0.461	9.11	1377					0.26	0.307	-0.513	0.335	2.288	0.95
600T125-54	0.0566	0.48	1.63	2.344	0.756	2.209	0.054	0.335	2.299	0.666	13.15	2728	2.241	0.592	17.73	2728	0.513	0.384	-0.508	0.332	2.291	0.951
600T125-68	0.0713	0.605	2.06	2.969	0.95	2.215	0.067	0.332	2.969	0.916	18.09	4347	2.934	0.858	25.69	5350	1.025	0.483	-0.503	0.329	2.296	0.952
600T125-97	0.1017	0.862	2.93	4.281	1.347	2.228	0.092	0.326	4.281	1.347	30.43*	7359	4.281	1.347	40.33	10885	2.973	0.685	-0.491	0.321	2.305	0.955
600T150-27[1]	0.0283	0.255	0.87	1.3	0.424	2.26	0.047	0.427	1.011	0.214	4.23	341					0.068	0.32	-0.686	0.441	2.4	0.918
600T150-30	0.0312	0.281	0.96	1.434	0.467	2.26	0.051	0.427	1.159	0.253	5.01	456					0.091	0.352	-0.685	0.44	2.4	0.918
600T150-33	0.0346	0.311	1.06	1.59	0.517	2.26	0.057	0.426	1.334	0.303	5.99	622					0.124	0.39	-0.684	0.439	2.399	0.919
600T150-43	0.0451	0.405	1.38	2.072	0.673	2.261	0.073	0.424	1.89	0.474	9.36	1377					0.275	0.504	-0.68	0.437	2.398	0.92
600T150-54	0.0566	0.509	1.73	2.611	0.843	2.266	0.091	0.422	2.473	0.689	13.62	2728	2.4	0.609	18.24	2728	0.543	0.632	-0.675	0.434	2.401	0.921
600T150-68	0.0713	0.641	2.18	3.309	1.059	2.273	0.113	0.419	3.262	0.963	19.03	4347	3.162	0.891	26.68	5350	1.086	0.797	-0.669	0.43	2.406	0.923
600T150-97	0.1017	0.913	3.11	4.778	1.504	2.288	0.156	0.413	4.778	1.504	29.71	7359	4.778	1.444	43.23	10885	3.148	1.138	-0.656	0.421	2.415	0.926
600T200-33	0.0346	0.346	1.18	1.913	0.622	2.352	0.126	0.604	1.542	0.333	6.59	622					0.138	0.847	-1.048	0.655	2.645	0.843
600T200-43	0.0451	0.451	1.53	2.494	0.809	2.353	0.163	0.602	2.076	0.565	11.16	1377					0.305	1.098	-1.044	0.652	2.643	0.844
600T200-54	0.0566	0.565	1.92	3.145	1.015	2.359	0.203	0.6	2.759	0.759	15	2728	2.641	0.717	21.48	2728	0.604	1.381	-1.038	0.649	2.646	0.846
600T200-68	0.0713	0.712	2.42	3.99	1.277	2.367	0.254	0.597	3.696	1.034	20.42	4347	3.54	0.973	29.12	5350	1.206	1.746	-1.031	0.644	2.65	0.849
600T200-97	0.1017	1.015	3.45	5.773	1.816	2.385	0.354	0.591	5.758	1.667	32.95	7359	5.558	1.568	46.94	10885	3.499	2.51	-1.016	0.635	2.659	0.854
800T125-33[1]	0.0346	0.363	1.24	2.895	0.711	2.824	0.036	0.313	2.441	0.407	8.03	465					0.145	0.456	-0.439	0.294	2.875	0.977
800T125-43	0.0451	0.473	1.61	3.773	0.924	2.824	0.046	0.311	3.484	0.64	12.65	1030					0.321	0.589	-0.436	0.292	2.874	0.977
800T125-54	0.0566	0.594	2.02	4.745	1.158	2.827	0.057	0.309	4.668	0.94	18.58	2039	4.426	0.824	24.66	2039	0.634	0.735	-0.432	0.289	2.877	0.977
800T125-68	0.0713	0.748	2.54	5.998	1.454	2.833	0.07	0.306	5.998	1.356	26.8	4087	5.956	1.216	36.39	4087	1.267	0.92	-0.427	0.286	2.881	0.978
800T125-97	0.1017	1.066	3.63	8.613	2.062	2.843	0.096	0.301	8.613	2.062	40.74	8843	8.613	2.062	61.72	10885	3.674	1.296	-0.417	0.279	2.889	0.979
800T150-33[1]	0.0346	0.38	1.29	3.18	0.781	2.891	0.06	0.397	2.569	0.414	8.18	465					0.152	0.751	-0.588	0.388	2.977	0.961
800T150-43	0.0451	0.496	1.69	4.144	1.015	2.891	0.077	0.395	3.689	0.655	12.95	1030					0.336	0.972	-0.584	0.386	2.976	0.961
800T150-54	0.0566	0.622	2.12	5.214	1.272	2.896	0.096	0.393	4.976	0.969	19.15	2039	4.692	0.844	25.27	2039	0.664	1.215	-0.58	0.383	2.979	0.962
800T150-68	0.0713	0.783	2.67	6.594	1.599	2.902	0.119	0.39	6.527	1.412	27.91	4087	6.361	1.255	37.58	4087	1.327	1.526	-0.575	0.379	2.984	0.963
800T150-97	0.1017	1.116	3.8	9.479	2.269	2.914	0.165	0.384	9.479	2.269	44.83	8843	9.479	2.192	65.62	10885	3.849	2.162	-0.564	0.372	2.993	0.965
800T200-33[1]	0.0346	0.415	1.41	3.749	0.921	3.005	0.135	0.571	2.788	0.424	8.37	465					0.166	1.638	-0.917	0.589	3.194	0.918
800T200-43	0.0451	0.541	1.84	4.887	1.197	3.006	0.175	0.569	4.043	0.676	13.35	1030					0.367	2.124	-0.913	0.587	3.193	0.918
800T200-54	0.0566	0.679	2.31	6.152	1.501	3.011	0.218	0.567	5.505	1.009	19.93	2039	5.149	0.871	26.09	2039	0.725	2.664	-0.908	0.584	3.196	0.919
800T200-68	0.0713	0.854	2.91	7.786	1.888	3.019	0.272	0.564	7.306	1.49	29.45	4087	7.051	1.31	39.22	4087	1.448	3.357	-0.902	0.58	3.201	0.921
800T200-97	0.1017	1.218	4.15	11.212	2.683	3.034	0.379	0.558	11.176	2.491	49.22	8843	10.833	2.347	70.27	10885	4.2	4.792	-0.889	0.571	3.21	0.923

SSMA.dbs Section Properties
4/10/2007

2004 Specification

Steel-Con

STEEL CONSTRUCTION SYSTEMS
TRACKS

Member	Design Thickness	Area	Weight	Gross Properties					Effective Properties 33 ksi				Effective Properties 50 ksi				Torsional Properties					
				Ix	Sx	Rx	Iy	Ry	Ix	Sx	Ma	Vag	Ix	Sx	Ma	Vag	Jx1000	Cw	Xo	m	Ro	Beta
	(in)	(in^2)	(lb/ft)	(in^4)	(in^3)	(in)	(in^4)		(in^4)	(in^3)	(in-k)	(lb)	(in^4)	(in^3)	(in-k)	(lb)	(in^4)	(in^5)	(in)	(in)	(in)	
1000T125-43[1]	0.0451	0.563	1.92	6.63	1.305	3.431	0.047	0.29	5.886	0.819	16.19	822					0.382	0.973	-0.379	0.259	3.464	0.988
1000T125-54	0.0566	0.707	2.41	8.333	1.634	3.434	0.059	0.288	7.96	1.216	24.03	1628	7.479	1.055	31.59	1628	0.755	1.212	-0.376	0.256	3.466	0.988
1000T125-68	0.0713	0.89	3.03	10.522	2.053	3.438	0.073	0.286	10.452	1.781	35.19	3261	10.155	1.575	47.15	3261	1.508	1.515	-0.372	0.253	3.47	0.989
1000T125-97	0.1017	1.269	4.32	15.077	2.912	3.447	0.1	0.28	15.077	2.907	57.44	8843	15.077	2.753	82.42	9507	4.375	2.123	-0.363	0.247	3.477	0.989
1000T150-43[1]	0.0451	0.586	1.99	7.207	1.419	3.507	0.08	0.37	6.195	0.837	16.54	822					0.397	1.612	-0.513	0.345	3.564	0.979
1000T150-54	0.0566	0.735	2.5	9.061	1.777	3.511	0.1	0.368	8.43	1.249	24.69	1628	7.88	1.079	32.29	1628	0.785	2.013	-0.509	0.342	3.567	0.98
1000T150-68	0.0713	0.926	3.15	11.445	2.233	3.516	0.124	0.366	11.342	1.846	36.48	3261	10.774	1.621	48.53	3261	1.569	2.522	-0.505	0.339	3.571	0.98
1000T150-97	0.1017	1.32	4.49	16.413	3.17	3.526	0.171	0.36	16.413	3.165	62.54	8843	16.413	2.902	86.9	9507	4.55	3.557	-0.495	0.332	3.579	0.981
1000T200-43[1]	0.0451	0.631	2.15	8.361	1.646	3.64	0.183	0.539	6.722	0.861	17.01	822					0.428	3.54	-0.813	0.534	3.769	0.953
1000T200-54	0.0566	0.792	2.69	10.516	2.062	3.645	0.228	0.537	9.231	1.295	25.6	1628	8.56	1.111	33.26	1628	0.845	4.434	-0.809	0.531	3.772	0.954
1000T200-68	0.0713	0.997	3.39	13.292	2.594	3.651	0.284	0.534	12.551	1.936	38.26	3261	11.82	1.684	50.42	3261	1.69	5.576	-0.803	0.527	3.776	0.955
1000T200-97	0.1017	1.422	4.84	19.087	3.686	3.664	0.397	0.528	19.031	3.427	67.72	8843	18.583	3.081	92.25	9507	4.901	7.924	-0.791	0.519	3.786	0.956
1200T125-54[1]	0.0566	0.82	2.79	13.335	2.186	4.033	0.06	0.271	12.296	1.491	29.47	1354	11.46	1.286	38.51	1354	0.876	1.82	-0.333	0.23	4.055	0.993
1200T125-68	0.0713	1.033	3.51	16.826	2.747	4.036	0.074	0.268	16.246	2.206	43.6	2713	15.686	1.934	57.9	2713	1.75	2.27	-0.329	0.227	4.059	0.993
1200T125-97	0.1017	1.472	5.01	24.078	3.897	4.044	0.102	0.263	24.078	3.69	72.92	7902	23.751	3.442	103.06	7902	5.076	3.171	-0.322	0.222	4.065	0.994
1200T150-54[1]	0.0566	0.848	2.89	14.378	2.357	4.117	0.103	0.348	12.962	1.53	30.23	1354	12.02	1.313	39.31	1354	0.906	3.033	-0.454	0.31	4.156	0.988
1200T150-68	0.0713	1.068	3.64	18.148	2.963	4.121	0.127	0.345	17.568	2.281	45.08	2713	16.566	1.987	59.48	2713	1.81	3.795	-0.45	0.307	4.16	0.988
1200T150-97	0.1017	1.523	5.18	25.987	4.206	4.13	0.176	0.34	25.987	3.996	78.97	7902	25.719	3.616	108.27	7902	5.252	5.335	-0.441	0.301	4.168	0.989
1200T200-54[1]	0.0566	0.905	3.08	16.464	2.699	4.265	0.236	0.51	14.078	1.582	31.26	1354	12.962	1.35	40.41	1354	0.966	6.714	-0.73	0.487	4.357	0.972
1200T200-68	0.0713	1.14	3.88	20.791	3.395	4.271	0.294	0.508	19.277	2.383	47.09	2713	18.026	2.058	61.62	2713	1.931	8.431	-0.725	0.483	4.362	0.972
1200T200-97	0.1017	1.625	5.53	29.805	4.824	4.283	0.41	0.502	29.805	4.298	84.93	7902	28.959	3.819	114.35	7902	5.602	11.945	-0.714	0.476	4.371	0.973

1. Web-height to thStiffeners are required at all support points and concentrated loads.
* Allowable moment includes cold-work of forming.

STEEL CONSTRUCTION SYSTEMS
11250 ASTRONAUT BLVD, ORLANDO FL 32837
PH: (407) 438-1664 OR (800) 548-8499
FAX: (407) 438-1667