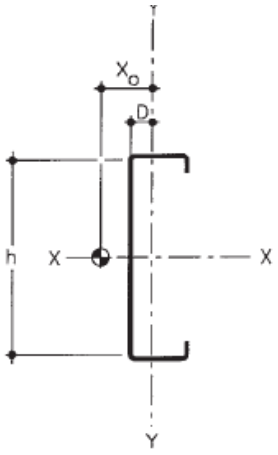
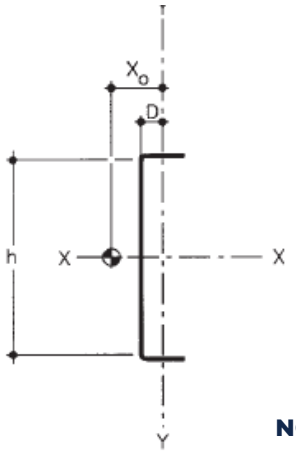
SECTION PROPERTIES

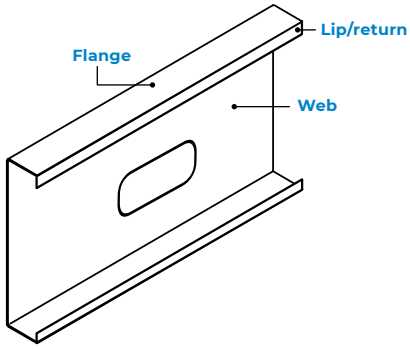
STUD

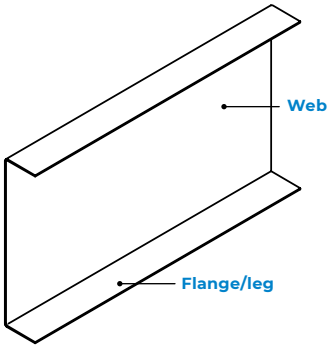


TRACK



Flange width	AISI Flange	Super Stud Flange Stud	Super Stud Flange Track	Flange Notes
1"	T100			tracks only
1-1/4"	S125; T125	SSCW	TR	
1-3/8"	S137	SSC		studs only
1-1/2"	T150		TF	tracks only
1-5/8"	S162	SSJ		studs only
2"	S200; T200	SJW	TW	
2-1/2"	S250; T250	SSW	DT	
3"	S300; T300	SSX	TH	
3-1/2"	S350; T350	SSXW	TX	





TERMS AND DEFINITIONS

Weight Pounds per linear foot, PLF

Ma Allowable bending moment of braced section, inch-kips

Va Allowable shear force through an unpunched web, kips (1000 pounds)

Area Cross-sectional area of gross section, $inch^2$

Ix, Iy Moment of inertia of gross section about applicable axis, $inch^4$

Sxe, Sye Section modulus of the effective section stressed at yield about the applicable axis, $inch^3$

Rx, Ry Radius of gyration of gross section about applicable axis, in

D Distance from the Y axis to outside of web, In

Jx 1000 St. Venant torsional constant, $inch^4$, multiplied by 1000

Cw Torsional warping constant, $inch^6$

Ro Polar radius of gyration about the shear center, in

Xo Distance from shear center to centroid along the principal axis, inch

Beta $1-(Xo/Ro)^2$

h/t Flat web to thickness ratio

NOTES:

1. Section properties were prepared in accordance with the North American Specification for the Design of Cold Formed Steel Structural Members, 2007 edition.

2. Allowable bending moment, Ma, was calculated in accordance with AISI Section C3.1, Procedure 1, based on the initiation of yield in the effective section.

3. Bearing stiffeners are required for all components where the h/t ratio exceeds 200.

4. Sxe and Sye are based on the effective section stressed at yield. Reference AISI Section B2.

5. Ma & Va are based on steel meeting the minimum requirements of the following specifications:

	ASTM A1003 (Fy(min)= 50 KSI)	*ASTM A1003 (Fy(min)= 33 KSI)*
Studs	97, 68 & 54* mils	43 & 33 mils
Track & Accs.	97* & 68* mils	54*, 43 & 33 mils

Fy = Minimum Yield Point

* Fy=33KSI, 50 KSI must be specified at time of order.

Upon request, Super Stud will fulfill requests for any of our components manufactured from steel meeting the minimum requirements of ASTM A1003, Grade B, Fy(min)=37 KSI and

Grade C, Fy(min)= 40 KSI.

6. The structural properties and load tables were prepared using the following base steel design thicknesses:

33 mils: 0.0346 inch

43 mils: 0.0451 inch

54 mils: 0.0566 inch

68 mils: 0.0713 inch

97 mils: 0.1017 inch

In conformance with the AISI Specification, the actual delivered base steel thickness, individual measurement, must not be less than 95 percent of the values listed above.

Super Stud also provides material in 118 mil (10 gauge) thickness, although not included in these tables.

SECTION PROPERTIES
2 1/2" - 4"
STRUCTURAL STUDS

AISI Designation	Legacy Designation	Weight lbs/ft	M_a K-in	V_a Kip	Area in^2	I_x in^4	Sx_e in^3	Rx in	Iy in^4	Sy_e in^3	Ry in	D in	JX1000 in^4	C_w in^6	R_o in	X_o in	Beta
250S137-33	2-1/2SSC20	0.689	3.263	1.037	0.202	0.208	0.165	1.013	0.056	0.060	0.526	0.501	0.081	0.086	1.666	-1.213	0.470
250S162-33	2-1/2SSJ20	0.762	3.557	1.037	0.224	0.237	0.188	1.028	0.088	0.082	0.625	0.628	0.089	0.145	1.920	-1.497	0.392
250S137-43	2-1/2SSC18	0.879	4.134	1.354	0.258	0.263	0.209	1.009	0.069	0.074	0.516	0.492	0.175	0.101	1.637	-1.181	0.480
250S132-43	2-1/2SSJ18	0.994	4.780	1.354	0.292	0.304	0.242	1.020	0.114	0.109	0.624	0.637	0.198	0.194	1.927	-1.511	0.385
250S137-54	2-1/2SSC16	1.099	7.694	2.510	0.323	0.323	0.257	1.001	0.085	0.093	0.514	0.500	0.345	0.130	1.643	-1.197	0.469
250S162-54	2-1/2SSJ16	1.243	8.897	2.510	0.365	0.373	0.297	1.011	0.141	0.137	0.622	0.645	0.390	0.250	1.935	-1.528	0.376
250S137-68	2-1/2SSC14	1.312	9.097	3.057	0.386	0.382	0.304	0.996	0.092	0.096	0.489	0.469	0.653	0.125	1.574	-1.117	0.497
250S162-68	2-1/2SSJ14	1.509	10.724	3.057	0.443	0.450	0.358	1.008	0.162	0.154	0.605	0.625	0.751	0.262	1.885	-1.474	0.389
350S137-33	3-1/2SSC20	0.806	4.992	1.046	0.237	0.452	0.253	1.381	0.063	0.060	0.515	0.431	0.095	0.168	1.827	-1.080	0.651
350S162-33	3-1/2SSJ20	0.880	5.424	1.046	0.259	0.511	0.286	1.406	0.099	0.082	0.618	0.547	0.103	0.273	2.043	-1.348	0.565
350S137-43	3-1/2SSC18	1.032	6.336	1.762	0.303	0.574	0.321	1.375	0.077	0.075	0.505	0.422	0.206	0.200	1.802	-1.050	0.661
350S162-43	3-1/2SSJ18	1.147	7.305	1.762	0.337	0.660	0.370	1.399	0.129	0.110	0.618	0.555	0.229	0.363	2.046	-1.360	0.558
350S137-54	3-1/2SSC16	1.291	11.856	3.417	0.379	0.709	0.396	1.367	0.096	0.094	0.503	0.429	0.405	0.254	1.803	-1.063	0.653
350S162-54	3-1/2SSJ16	1.436	13.670	3.417	0.422	0.815	0.457	1.390	0.160	0.139	0.616	0.563	0.451	0.463	2.050	-1.375	0.550
350S137-68	3-1/2SSC14	1.554	14.037	4.483	0.457	0.841	0.469	1.356	0.104	0.099	0.476	0.401	0.774	0.258	1.744	-0.988	0.679
350S162-68	3-1/2SSJ14	1.752	16.502	4.483	0.515	0.985	0.551	1.383	0.184	0.157	0.597	0.543	0.872	0.503	2.004	-1.321	0.565
362S125-33	3-5/8SSCW20	0.777	4.843	1.008	0.228	0.454	0.245	1.410	0.048	0.048	0.456	0.360	0.091	0.130	1.743	-0.916	0.723
362S137-33	3-5/8SSC20	0.821	5.240	1.008	0.241	0.490	0.265	1.426	0.064	0.060	0.514	0.423	0.096	0.180	1.853	-1.066	0.669
362S162-33	3-5/8SSJ20	0.895	5.691	1.008	0.263	0.554	0.300	1.452	0.100	0.082	0.617	0.538	0.105	0.293	2.064	-1.331	0.584
362S137-43	3-5/8SSC18	1.052	6.652	1.762	0.309	0.623	0.337	1.420	0.078	0.075	0.503	0.415	0.210	0.215	1.828	-1.035	0.679
362S162-43	3-5/8SSJ18	1.167	7.662	1.762	0.343	0.716	0.388	1.445	0.130	0.111	0.616	0.546	0.232	0.390	2.067	-1.344	0.577
362S200-43	3-5/8SJW18	1.311	8.715	1.762	0.385	0.837	0.455	1.474	0.227	0.163	0.768	0.728	0.261	0.726	2.418	-1.757	0.472
362S137-54	3-5/8SSC16	1.315	12.454	3.417	0.387	0.770	0.416	1.411	0.097	0.094	0.502	0.422	0.413	0.274	1.828	-1.049	0.671
362S162-54	3-5/8SSJ16	1.460	14.346	3.417	0.429	0.884	0.479	1.436	0.162	0.139	0.615	0.554	0.458	0.496	2.070	-1.358	0.570
362S200-54	3-5/8SJW16	1.676	16.415	3.417	0.493	1.048	0.569	1.459	0.299	0.221	0.778	0.763	0.526	1.063	2.473	-1.840	0.447
362S137-68	3-5/8SSC14	1.585	14.752	4.661	0.466	0.913	0.493	1.400	0.105	0.099	0.474	0.394	0.789	0.278	1.770	-0.974	0.697
362S162-68	3-5/8SSJ14	1.782	17.324	4.661	0.524	1.069	0.579	1.429	0.186	0.158	0.596	0.535	0.887	0.540	2.024	-1.305	0.585
362S200-68	3-5/8SJW14	2.055	20.770	4.661	0.604	1.277	0.694	1.454	0.351	0.259	0.762	0.744	1.023	1.175	2.427	-1.787	0.458
362S200-97	3-5/8SJW12	2.723	27.148	6.339	0.800	1.672	0.907	1.446	0.407	0.284	0.713	0.683	2.759	1.160	2.291	-1.628	0.495
400S125-33	4SSCW20	0.821	5.558	0.909	0.241	0.572	0.281	1.540	0.049	0.048	0.451	0.342	0.096	0.161	1.830	-0.880	0.769
400S137-33	4SSC20	0.865	6.003	0.909	0.254	0.617	0.304	1.558	0.066	0.060	0.508	0.403	0.101	0.222	1.933	-1.025	0.719
400S162-33	4SSJ20	0.939	6.510	0.909	0.276	0.696	0.343	1.588	0.103	0.083	0.612	0.513	0.110	0.359	2.132	-1.285	0.637
400S137-43	4SSC18	1.109	7.627	1.762	0.326	0.785	0.386	1.552	0.081	0.075	0.497	0.394	0.221	0.266	1.910	-0.996	0.728
400S162-43	4SSJ18	1.224	8.759	1.762	0.360	0.899	0.443	1.581	0.135	0.111	0.612	0.522	0.244	0.475	2.134	-1.297	0.631
400S200-43	4SJW18	1.368	9.940	1.762	0.402	1.049	0.518	1.615	0.235	0.164	0.765	0.698	0.273	0.877	2.468	-1.702	0.524
400S250-43	4SSW18	1.541	10.852	1.762	0.453	1.235	0.611	1.652	0.413	0.237	0.955	0.929	0.307	1.598	2.924	-2.215	0.426
400S137-54	4SSC16	1.387	14.299	3.417	0.408	0.971	0.478	1.543	0.100	0.095	0.496	0.402	0.435	0.337	1.909	-1.008	0.721
400S162-54	4SSJ16	1.532	16.423	3.417	0.450	1.113	0.549	1.572	0.168	0.140	0.610	0.529	0.481	0.603	2.136	-1.310	0.624
400S200-54	4SJW16	1.749	18.764	3.417	0.514	1.317	0.650	1.601	0.310	0.223	0.776	0.732	0.549	1.269	2.519	-1.783	0.499
400S250-54	4SSW16	1.977	20.506	3.417	0.581	1.552	0.766	1.634	0.548	0.326	0.971	0.975	0.621	2.396	3.004	-2.326	0.400
400S137-68	4SSC14	1.676	16.960	5.196	0.492	1.153	0.566	1.530	0.108	0.101	0.468	0.375	0.835	0.347	1.853	-0.935	0.746
400S162-68	4SSJ14	1.873	19.851	5.196	0.550	1.346	0.663	1.564	0.192	0.161	0.591	0.511	0.933	0.662	2.092	-1.258	0.639
400S200-68	4SJW14	2.146	23.733	5.196	0.631	1.606	0.793	1.596	0.364	0.263	0.759	0.714	1.069	1.412	2.473	-1.731	0.510
400S250-68	4SSW14	2.510	27.674	5.196	0.738	1.931	0.955	1.618	0.700	0.433	0.974	1.001	1.250	3.303	3.043	-2.386	0.385

Flange Width: SSCW=1-1/4", SSC=1-3/8", SSJ=1-5/8", SJW=2" and SSW=2-1/2"

SECTION PROPERTIES
4” - 8”
STRUCTURAL STUDS & JOISTS

AISI Designation	Legacy Designation	Weight lbs/ft	M_a K-in	V_a Kip	Area in^2	I_x in^4	Sx_e in^3	Rx in	Iy in^4	Sy_e in^3	Ry in	D in	JX1000 in^4	C_w in^6	R_o in	X_o in	Beta
400S200-97	4SJW12	2.853	31.051	7.102	0.838	2.103	1.037	1.584	0.421	0.292	0.709	0.655	2.890	1.427	2.342	-1.574	0.549
400S250-97	4SSW12	3.393	38.425	7.102	0.997	2.595	1.283	1.613	0.875	0.526	0.937	0.952	3.438	3.587	2.926	-2.255	0.406
550S137-33	5-1/2SSC20	1.042	9.365	0.652	0.306	1.313	0.474	2.071	0.072	0.061	0.485	0.337	0.122	0.443	2.307	-0.893	0.850
550S162-33	5-1/2SSJ20	1.115	10.104	0.652	0.328	1.465	0.529	2.114	0.114	0.083	0.590	0.435	0.131	0.705	2.469	-1.132	0.790
550S137-43	5-1/2SSC18	1.339	11.929	1.452	0.394	1.673	0.604	2.062	0.088	0.076	0.474	0.330	0.267	0.536	2.286	-0.866	0.857
550S162-43	5-1/2SSJ18	1.454	13.556	1.452	0.427	1.900	0.686	2.108	0.149	0.113	0.590	0.443	0.290	0.929	2.469	-1.142	0.786
550S137-54	5-1/2SSC16	1.676	22.448	2.902	0.493	2.078	0.750	2.054	0.110	0.096	0.473	0.337	0.526	0.678	2.282	-0.876	0.853
550S162-54	5-1/2SSJ16	1.821	25.510	2.902	0.535	2.360	0.852	2.100	0.185	0.142	0.589	0.450	0.571	1.174	2.467	-1.152	0.782
550S137-68	5-1/2SSC14	2.040	26.758	5.422	0.599	2.478	0.894	2.033	0.118	0.103	0.444	0.314	1.016	0.714	2.233	-0.809	0.869
550S162-68	5-1/2SSJ14	2.237	30.932	5.422	0.657	2.862	1.033	2.086	0.212	0.164	0.568	0.433	1.114	1.316	2.428	-1.103	0.794
600S137-33	6SSCW20	1.057	9.899	0.596	0.311	1.513	0.501	2.207	0.055	0.049	0.420	0.269	0.124	0.396	2.362	-0.729	0.905
600S137-33	6SSC20	1.101	10.598	0.596	0.323	1.619	0.536	2.237	0.074	0.061	0.478	0.320	0.129	0.537	2.443	-0.857	0.877
600S162-33	6SSJ20	1.174	11.415	0.596	0.345	1.801	0.597	2.284	0.117	0.084	0.582	0.414	0.138	0.853	2.597	-1.089	0.824
600S137-43	6SSC18	1.416	13.508	1.326	0.416	2.064	0.684	2.227	0.090	0.077	0.466	0.314	0.282	0.652	2.422	-0.830	0.882
600S162-43	6SSJ18	1.531	15.301	1.326	0.450	2.336	0.774	2.279	0.153	0.113	0.582	0.422	0.305	1.123	2.596	-1.099	0.821
600S200-43	6SJW18	1.675	17.174	1.326	0.492	2.686	0.891	2.336	0.269	0.167	0.739	0.575	0.334	2.013	2.855	-1.467	0.736
600S250-43	6SSW18	1.848	18.661	1.326	0.543	3.116	1.032	2.396	0.475	0.241	0.935	0.778	0.368	3.594	3.222	-1.941	0.637
600S137-54	6SSC16	1.773	25.440	2.648	0.521	2.566	0.850	2.219	0.113	0.096	0.465	0.320	0.556	0.823	2.418	-0.840	0.879
600S162-54	6SSJ16	1.917	28.817	2.648	0.563	2.904	0.963	2.270	0.190	0.142	0.581	0.428	0.602	1.418	2.593	-1.109	0.817
600S200-54	6SJW16	2.134	32.643	2.648	0.627	3.396	1.126	2.327	0.356	0.227	0.753	0.605	0.670	2.804	2.889	-1.538	0.717
600S250-54	6SSW16	2.362	35.484	2.648	0.694	3.947	1.305	2.384	0.632	0.332	0.954	0.821	0.741	5.132	3.280	-2.040	0.613
600S137-68	6SSC14	2.161	30.371	5.362	0.635	3.064	1.014	2.197	0.121	0.103	0.436	0.299	1.076	0.872	2.369	-0.774	0.893
600S162-68	6SSJ14	2.358	34.975	5.362	0.693	3.525	1.168	2.255	0.218	0.165	0.561	0.413	1.174	1.596	2.555	-1.061	0.828
600S200-68	6SJW14	2.631	41.211	5.362	0.773	4.150	1.376	2.317	0.417	0.269	0.734	0.589	1.310	3.202	2.850	-1.488	0.727
600S250-68	6SSW14	2.995	47.731	5.362	0.880	4.947	1.642	2.371	0.812	0.444	0.960	0.844	1.491	6.877	3.305	-2.093	0.599
600S200-97	6SJW12	3.545	54.215	11.030	1.042	5.462	1.811	2.290	0.481	0.309	0.679	0.537	3.592	3.466	2.740	-1.343	0.760
600S250-97	6SSW12	4.086	66.226	11.030	1.201	6.665	2.212	2.356	1.012	0.558	0.918	0.799	4.139	7.943	3.204	-1.967	0.623
725S162-43	7-1/4SSJ18	1.723	19.734	1.090	0.506	3.680	0.999	2.696	0.161	0.113	0.563	0.377	0.343	1.706	2.932	-1.006	0.882
725S200-43	7-1/4SJW18	1.867	22.027	1.090	0.549	4.197	1.141	2.766	0.284	0.167	0.720	0.518	0.372	3.031	3.162	-1.354	0.817
725S162-54	7-1/4SSJ16	2.158	37.221	2.173	0.634	4.581	1.243	2.688	0.200	0.143	0.562	0.384	0.677	2.151	2.927	-1.014	0.880
725S200-54	7-1/4SJW16	2.375	41.947	2.173	0.698	5.318	1.446	2.761	0.377	0.227	0.735	0.547	0.745	4.176	3.190	-1.420	0.802
725S162-68	7-1/4SSJ14	2.661	45.253	4.390	0.782	5.573	1.511	2.669	0.229	0.165	0.541	0.370	1.325	2.439	2.891	-0.969	0.888
725S200-68	7-1/4SJW14	2.934	52.973	4.390	0.862	6.508	1.769	2.747	0.441	0.269	0.715	0.532	1.461	4.808	3.153	-1.372	0.811
725S162-97	7-1/4SSJ12	3.588	58.558	11.030	1.054	7.224	1.956	2.617	0.240	0.172	0.477	0.326	3.635	2.556	2.789	-0.835	0.910
725S200-97	7-1/4SJW12	3.977	69.871	11.030	1.169	8.594	2.334	2.711	0.508	0.310	0.659	0.484	4.030	5.319	3.051	-1.234	0.836
800S162-43	8SSJ18	1.838	22.790	0.985	0.540	4.673	1.153	2.941	0.165	0.114	0.552	0.355	0.366	2.126	3.142	-0.958	0.907
800S200-43	8SJW18	1.982	25.181	0.985	0.582	5.307	1.312	3.019	0.292	0.167	0.708	0.489	0.395	3.764	3.360	-1.295	0.852
800S250-43	8SSW18	2.155	26.388	0.985	0.633	6.084	1.506	3.100	0.519	0.242	0.905	0.671	0.429	6.663	3.665	-1.734	0.776
800S162-54	8SSJ16	2.302	43.016	1.962	0.677	5.822	1.437	2.933	0.205	0.143	0.551	0.361	0.722	2.679	3.137	-0.966	0.905
800S200-54	8SJW16	2.519	48.314	1.962	0.740	6.729	1.663	3.015	0.387	0.227	0.723	0.517	0.790	5.162	3.385	-1.358	0.839
800S250-54	8SSW16	2.748	50.919	1.962	0.807	7.731	1.912	3.094	0.694	0.333	0.927	0.709	0.862	9.310	3.710	-1.824	0.758
800S162-68	8SSJ14	2.843	52.367	3.959	0.836	7.091	1.749	2.913	0.235	0.165	0.530	0.348	1.416	3.047	3.101	-0.921	0.912
800S200-68	8SJW14	3.116	60.981	3.959	0.916	8.242	2.037	3.000	0.454	0.270	0.704	0.503	1.552	5.964	3.349	-1.311	0.847
800S250-68	8SSW14	3.480	70.087	3.959	1.023	9.725	2.407	3.084	0.892	0.446	0.934	0.731	1.733	12.318	3.726	-1.872	0.748

Flange Width: SSCW=1-1/4”, SSC=1-3/8”, SSJ=1-5/8”, SJW=2” and SSW=2-1/2”

SECTION PROPERTIES
8” - 16”
STRUCTURAL STUDS & JOISTS

AISI Designation	Legacy Designation	Weight lbs/ft	M_a K-in	V_a Kip	Area in^2	I_x in^4	Sx_e in^3	Rx in	Iy in^4	Sy_e in^3	Ry in	D in	JX1000 in^4	C_w in^6	R_o in	X_o in	Beta
800S162-97	8SSJ12	3.848	68.023	11.030	1.131	9.223	2.272	2.856	0.246	0.173	0.466	0.307	3.898	3.218	3.000	-0.792	0.930
800S200-97	8SJW12	4.237	80.615	11.030	1.245	10.905	2.693	2.959	0.521	0.311	0.647	0.457	4.293	6.661	3.250	-1.178	0.869
800S250-97	8SSW12	4.778	97.324	11.030	1.404	13.137	3.251	3.059	1.110	0.562	0.889	0.691	4.841	14.658	3.636	-1.753	0.768
925S162-43	9-1/4SSJ18	2.030	25.485	0.849	0.597	6.672	1.429	3.344	0.170	0.114	0.534	0.324	0.404	2.946	3.501	-0.888	0.936
925S250-43	9-1/4SSW18	2.174	28.263	0.639	0.639	7.526	1.614	3.432	0.303	0.168	0.689	0.448	0.433	5.199	3.703	-1.208	0.894
925S162-54	9-1/4SSJ16	2.543	49.139	1.688	0.747	8.319	1.782	3.336	0.212	0.143	0.533	0.330	0.798	3.711	3.495	-0.895	0.934
925S200-54	9-1/4SJW16	2.760	54.733	1.688	0.811	9.551	2.048	3.432	0.403	0.228	0.705	0.474	0.866	7.090	3.726	-1.267	0.884
925S162-68	9-1/4SSJ14	3.147	65.089	3.403	0.925	10.151	2.174	3.313	0.243	0.166	0.512	0.318	1.567	4.237	3.459	-0.853	0.939
925S200-68	9-1/4SJW14	3.420	75.194	3.403	1.005	11.712	2.511	3.414	0.472	0.271	0.685	0.461	1.703	8.229	3.690	-1.223	0.890
925S162-97	9-1/4SSJ12	4.280	85.031	10.047	1.258	13.272	2.840	3.248	0.253	0.174	0.449	0.281	4.337	4.517	3.359	-0.730	0.953
925S200-97	9-1/4SJW12	4.670	99.757	10.047	1.372	15.547	3.332	3.366	0.540	0.313	0.627	0.420	4.731	9.295	3.595	-1.095	0.907
1000S162-54	10SSJ16	2.687	52.165	1.558	0.790	10.094	2.003	3.575	0.216	0.143	0.523	0.314	0.843	4.424	3.714	-0.858	0.947
1000S200-54	10SJW16	2.904	58.457	1.558	0.853	11.544	2.293	3.678	0.411	0.228	0.694	0.452	0.911	8.422	3.936	-1.219	0.904
1000S250-54	10SSW16	3.133	62.108	1.558	0.921	13.131	2.611	3.777	0.740	0.334	0.896	0.626	0.983	15.084	4.219	-1.654	0.846
1000S162-68	10SSJ14	3.329	73.245	3.138	0.978	12.329	2.446	3.550	0.247	0.166	0.502	0.303	1.658	5.060	3.677	-0.816	0.951
1000S200-68	10SJW14	3.602	84.246	3.138	1.058	14.166	2.814	3.658	0.481	0.272	0.674	0.440	1.794	9.795	3.901	-1.176	0.909
1000S250-68	10SSW14	3.965	96.031	3.138	1.165	16.549	3.290	3.768	0.952	0.448	0.904	0.646	1.975	19.827	4.231	-1.697	0.839
1000S162-97	10SSJ12	4.540	95.981	9.253	1.334	16.167	3.206	3.481	0.257	0.174	0.439	0.268	4.600	5.417	3.577	-0.698	0.962
1000S200-97	10SJW12	4.929	111.989	9.253	1.449	18.840	3.740	3.606	0.550	0.314	0.616	0.400	4.994	11.122	3.807	-1.051	0.924
1000S250-97	10SSW12	5.470	133.419	9.253	1.607	22.419	4.456	3.735	1.182	0.566	0.858	0.610	5.542	23.993	4.146	-1.585	0.854
1150S162-54	11-1/2SSJ16	2.976	58.517	1.350	0.875	14.323	2.477	4.047	0.222	0.144	0.504	0.286	0.934	6.066	4.154	-0.792	0.964
1150S250-54	11-1/2SSW16	3.422	70.614	1.350	1.006	18.377	3.182	4.275	0.767	0.335	0.874	0.575	1.074	20.531	4.630	-1.548	0.888
1150S162-68	11-1/2SSJ14	3.693	83.505	2.716	1.085	17.526	3.031	4.019	0.253	0.166	0.483	0.277	1.839	6.957	4.117	-0.753	0.967
1150S250-68	11-1/2SSW14	4.329	109.335	2.716	1.272	23.181	4.014	4.268	0.989	0.449	0.882	0.595	2.156	26.910	4.639	-1.588	0.883
1150S162-97	11-1/2SSJ12	5.059	119.570	7.990	1.487	23.105	3.994	3.942	0.264	0.175	0.421	0.246	5.126	7.493	4.016	-0.641	0.975
1150S250-97	11-1/2SSW12	5.989	163.121	7.990	1.760	31.468	5.448	4.228	1.226	0.568	0.835	0.561	6.068	32.829	4.557	-1.480	0.895
1200S162-54	12SSJ16	3.073	60.691	1.292	0.903	15.947	2.645	4.202	0.224	0.144	0.498	0.278	0.964	6.679	4.302	-0.773	0.968
1200S200-54	12SJW16	3.289	68.622	1.292	0.967	18.067	2.998	4.323	0.429	0.229	0.666	0.403	1.032	12.644	4.512	-1.108	0.940
1200S250-54	12SSW16	3.518	73.465	1.292	1.034	20.373	3.382	4.439	0.776	0.335	0.866	0.560	1.104	22.568	4.770	-1.516	0.899
1200S162-68	12SSJ14	3.814	86.019	2.599	1.121	19.524	3.237	4.174	0.255	0.167	0.477	0.269	1.899	7.665	4.265	-0.734	0.970
1200S200-68	12SJW14	4.087	103.953	2.599	1.201	22.208	3.685	4.300	0.501	0.272	0.646	0.392	2.035	14.762	4.477	-1.067	0.943
1200S250-68	12SSW14	4.451	113.355	2.599	1.308	25.704	4.267	4.433	1.000	0.449	0.874	0.580	2.216	29.557	4.779	-1.555	0.894
1200S162-97	12SSJ12	5.232	127.935	7.642	1.538	25.781	4.273	4.095	0.265	0.175	0.416	0.239	5.301	8.268	4.163	-0.624	0.978
1200S200-97	12SJW12	5.621	147.361	7.642	1.652	29.674	4.922	4.238	0.572	0.315	0.588	0.357	5.695	16.927	4.383	-0.950	0.953
1200S250-97	12SSW12	6.162	173.525	7.642	1.811	34.917	5.796	4.391	1.239	0.568	0.827	0.547	6.243	36.137	4.697	-1.449	0.905
1400S200-54	14SJW16	3.675	79.140	1.104	1.080	26.524	3.331	4.956	0.443	0.229	0.641	0.363	1.153	17.868	5.100	-1.017	0.960
1400S200-68	14SJW14	4.572	113.246	2.218	1.344	32.654	4.650	4.930	0.517	0.273	0.621	0.354	2.277	20.915	5.064	-0.978	0.963
1400S250-68	14SSW14	4.936	129.723	2.218	1.451	37.477	5.339	5.083	1.038	0.450	0.846	0.526	2.458	41.626	5.349	-1.437	0.928
1400S200-97	14SJW12	6.313	186.758	6.509	1.855	43.813	6.238	4.859	0.589	0.316	0.563	0.324	6.397	24.130	4.968	-0.868	0.970
1400S250-97	14SSW12	6.854	217.663	6.509	2.014	51.038	7.270	5.034	1.284	0.570	0.798	0.497	6.944	51.238	5.269	-1.335	0.936
1600S250-68	16SSW14	5.421	146.438	1.935	1.593	52.152	6.192	5.721	1.069	0.450	0.819	0.482	2.700	56.124	5.932	-1.336	0.949
1600S250-97	16SSW12	7.546	251.869	5.669	2.218	71.191	8.879	5.666	1.321	0.571	0.772	0.456	7.646	69.405	5.851	-1.240	0.955

Flange Width: SSJ=1-5/8”, SJW=2” and SSW=2-1/2”

SECTION PROPERTIES
STRUCTURAL TRACKS

	AISI Designation	Legacy Designation	Weight lbs/ft	M_a K-in	V_a Kip	Area in^2	I_x in^4	Sx_e in^3	Rx in	Iy in^4	Sy_e in^3	Ry in	D in	JX1000 in^4	C_w in^6	R_o in	X_o in	Beta
2-1/2" Track	250T125-33	2-1/2TR20	0.595	2.072	1.037	0.175	0.200	0.117	1.069	0.027	0.029	0.396	0.318	0.070	0.034	1.373	-0.764	0.690
	250T125-43	2-1/2TR18	0.770	2.947	1.466	0.226	0.256	0.168	1.064	0.035	0.038	0.394	0.323	0.153	0.043	1.368	-0.763	0.689
	250T125-54	2-1/2TR16	0.959	3.992	1.796	0.282	0.315	0.225	1.058	0.043	0.047	0.393	0.329	0.301	0.053	1.363	-0.764	0.686
	250T125-68	2-1/2TR14	1.194	7.604	3.324	0.351	0.387	0.281	1.050	0.054	0.059	0.390	0.336	0.595	0.065	1.357	-0.765	0.682
3-1/2" Track	350T125-33	3-1/2TR20	0.712	3.312	0.990	0.209	0.417	0.184	1.412	0.030	0.029	0.378	0.269	0.084	0.072	1.609	-0.672	0.826
	350T125-43	3-1/2TR18	0.924	4.651	1.762	0.271	0.537	0.259	1.407	0.039	0.038	0.377	0.273	0.184	0.092	1.603	-0.670	0.825
	350T125-54	3-1/2TR16	1.151	6.236	2.544	0.338	0.663	0.346	1.400	0.048	0.049	0.375	0.278	0.361	0.113	1.597	-0.670	0.824
	350T125-68	3-1/2TR14	1.437	11.895	4.750	0.422	0.818	0.434	1.392	0.059	0.061	0.373	0.285	0.716	0.139	1.589	-0.670	0.822
3-5/8" Track	362T125-33	3-5/8TR20	0.727	3.484	0.956	0.214	0.451	0.193	1.454	0.030	0.029	0.376	0.264	0.085	0.078	1.641	-0.662	0.837
	362T125-43	3-5/8TR18	0.943	4.885	1.762	0.277	0.581	0.272	1.448	0.039	0.038	0.375	0.268	0.188	0.099	1.635	-0.660	0.837
	362T125-54	3-5/8TR16	1.175	6.543	2.637	0.345	0.718	0.362	1.442	0.048	0.049	0.373	0.273	0.369	0.122	1.629	-0.660	0.836
	362T125-68	3-5/8TR14	1.467	12.482	4.928	0.431	0.886	0.454	1.433	0.059	0.061	0.371	0.280	0.731	0.150	1.621	-0.660	0.834
4" Track	400T125-33	4TR20	0.771	4.021	0.866	0.227	0.564	0.221	1.578	0.031	0.029	0.370	0.249	0.090	0.097	1.740	-0.634	0.867
	400T125-43	4TR18	1.001	5.617	1.762	0.294	0.727	0.311	1.572	0.040	0.038	0.368	0.254	0.199	0.124	1.734	-0.632	0.867
	400T125-54	4TR16	1.247	7.500	2.776	0.367	0.899	0.413	1.566	0.049	0.049	0.367	0.259	0.391	0.153	1.728	-0.632	0.866
	400T125-68	4TR14	1.558	14.311	5.422	0.458	1.110	0.518	1.557	0.061	0.061	0.365	0.266	0.776	0.188	1.719	-0.631	0.865
5-1/2" Track	550T125-33	5-1/2TR20	0.948	6.128	0.630	0.279	1.184	0.355	2.061	0.033	0.029	0.346	0.206	0.111	0.198	2.160	-0.544	0.937
	550T125-43	5-1/2TR18	1.231	8.968	1.402	0.362	1.529	0.488	2.056	0.043	0.039	0.344	0.211	0.245	0.255	2.154	-0.542	0.937
	550T125-54	5-1/2TR16	1.536	11.857	2.801	0.451	1.895	0.644	2.049	0.053	0.049	0.343	0.216	0.482	0.314	2.146	-0.541	0.937
	550T125-68	5-1/2TR14	1.922	22.637	5.422	0.565	2.349	0.809	2.039	0.065	0.061	0.340	0.222	0.957	0.387	2.137	-0.540	0.936
6" Track	600T125-33	6TR20	1.007	6.589	0.577	0.296	1.457	0.407	2.219	0.034	0.029	0.338	0.195	0.118	0.242	2.304	-0.519	0.949
	600T125-43	6TR18	1.307	10.235	1.285	0.384	1.883	0.555	2.213	0.044	0.039	0.337	0.200	0.261	0.310	2.298	-0.517	0.949
	600T125-54	6TR16	1.633	13.497	2.564	0.480	2.335	0.730	2.206	0.054	0.049	0.335	0.205	0.512	0.382	2.290	-0.516	0.949
	600T125-68	6TR14	2.043	25.770	5.190	0.601	2.897	0.918	2.196	0.067	0.062	0.333	0.211	1.018	0.471	2.280	-0.515	0.949
7-1/4" Track	725T125-33	7-1/4TR20	1.154	7.776	0.477	0.339	2.307	0.553	2.608	0.035	0.029	0.321	0.172	0.135	0.370	2.669	-0.467	0.969
	725T125-43	7-1/4TR18	1.499	13.561	1.062	0.441	2.984	0.739	2.602	0.045	0.039	0.320	0.177	0.299	0.475	2.663	-0.465	0.969
	725T125-54	7-1/4TR16	1.873	18.008	2.116	0.551	3.706	0.967	2.594	0.056	0.049	0.318	0.182	0.588	0.587	2.655	-0.464	0.969
	725T125-68	7-1/4TR14	2.347	34.385	4.274	0.690	4.605	1.215	2.584	0.069	0.062	0.316	0.188	1.169	0.724	2.644	-0.462	0.969
8" Track	800T125-33	8TR20	1.242	8.508	0.433	0.365	2.942	0.650	2.839	0.036	0.029	0.312	0.161	0.146	0.462	2.890	-0.441	0.977
	800T125-43	8TR18	1.614	14.618	0.962	0.474	3.807	0.868	2.833	0.046	0.039	0.311	0.166	0.322	0.593	2.883	-0.439	0.977
	800T125-54	8TR16	2.018	20.995	1.915	0.593	4.731	1.123	2.825	0.057	0.050	0.309	0.171	0.633	0.733	2.875	-0.438	0.977
	800T125-68	8TR14	2.529	40.089	3.864	0.743	5.885	1.411	2.814	0.070	0.062	0.307	0.177	1.259	0.904	2.864	-0.436	0.977
9-1/4" Track	925T125-43	9-1/4TR18	1.806	16.473	0.831	0.531	5.481	1.102	3.213	0.047	0.039	0.297	0.151	0.360	0.822	3.252	-0.402	0.985
	925T125-54	9-1/4TR16	2.259	26.440	1.654	0.664	6.817	1.406	3.205	0.058	0.050	0.296	0.156	0.709	1.016	3.243	-0.400	0.985
	925T125-68	9-1/4TR14	2.832	50.488	3.333	0.832	8.490	1.768	3.194	0.072	0.062	0.294	0.162	1.410	1.254	3.232	-0.398	0.985
10" Track	1000T125-43	10TR18	1.921	17.621	0.769	0.565	6.681	1.254	3.440	0.047	0.039	0.290	0.143	0.383	0.979	3.473	-0.382	0.988
	1000T125-54	10TR16	2.403	28.510	1.528	0.706	8.314	1.597	3.431	0.059	0.050	0.288	0.148	0.754	1.210	3.464	-0.380	0.988
	1000T125-68	10TR14	3.014	56.582	3.078	0.886	10.360	2.002	3.420	0.073	0.062	0.286	0.155	1.501	1.494	3.453	-0.379	0.988
	1000T125-97	10TR12	4.260	84.874	9.073	1.252	14.446	2.835	3.397	0.100	0.089	0.282	0.168	4.316	2.045	3.429	-0.375	0.988
11-1/2" Track	1150T125-54	11-1/2TR16	2.692	31.708	1.327	0.791	11.916	2.017	3.881	0.060	0.050	0.275	0.135	0.845	1.652	3.906	-0.347	0.992
	1150T125-68	11-1/2TR14	3.378	62.747	2.671	0.993	14.864	2.530	3.870	0.074	0.062	0.273	0.142	1.682	2.041	3.895	-0.345	0.992
	1150T125-97	11-1/2TR12	4.779	106.370	7.856	1.404	20.771	3.553	3.846	0.102	0.089	0.269	0.155	4.842	2.796	3.870	-0.341	0.992
12" Track	1200T125-54	12TR16	2.788	32.836	1.272	0.819	13.310	2.167	4.030	0.060	0.050	0.271	0.132	0.875	1.816	4.053	-0.337	0.993
	1200T125-68	12TR14	3.499	64.896	2.558	1.028	16.608	2.718	4.019	0.074	0.062	0.269	0.138	1.743	2.244	4.042	-0.335	0.993
	1200T125-97	12TR12	4.952	114.043	7.520	1.455	23.222	3.809	3.995	0.102	0.089	0.265	0.152	5.017	3.074	4.017	-0.331	0.993
14" Track	1400T125-68	14TR14	3.984	74.031	2.188	1.171	24.914	3.510	4.613	0.076	0.062	0.254	0.126	1.984	3.158	4.629	-0.300	0.996
	1400T125-97	14TR12	5.644	147.273	6.420	1.659	34.911	4.919	4.588	0.104	0.089	0.250	0.139	5.718	4.329	4.604	-0.296	0.996
16" Track	1600T125-68	16TR14	4.470	83.643	1.912	1.314	35.563	4.392	5.203	0.077	0.062	0.242	0.116	2.226	4.236	5.216	-0.272	0.997
	1600T125-97	16TR12	6.336	169.554	5.601	1.862	49.919	6.164	5.178	0.105	0.090	0.238	0.130	6.420	5.810	5.190	-0.268	0.997

Flange Width: TR Track = 1-1/4"