

STRUCTURAL STUD SECTION PROPERTIES

Section	Design Thickness (in)	Fy (Yield) (ksi)	Gross Properties							Effective Properties							Torsional Properties						
			Area (in ²)	Weight (lb/ft)	Ixx (in ⁴)	Rx (in)	Iyy (in ⁴)	Ry (in)	Ixx (in ⁴)	Sxx (in ³)	Ma-L (in-k)	Ma-D (in-k)	KØc (in-lb/ft)	Vag (lb)	VaNet (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	b	Lu (in)	
250S137-33	0.0346	33	0.197	0.67	0.203	1.015	0.052	0.515	0.203	0.158	3.11	3.09	6.7	975	399	0.079	0.076	-1.141	0.677	1.612	0.499	35.6	
250S137-43	0.0451	33	0.255	0.87	0.261	1.01	0.067	0.511	0.261	0.205	4.53	4.6	0.00	1265	394	0.173	0.096	-1.129	0.67	1.599	0.501	33.6	
250S137-54	0.0566	33	0.316	1.07	0.318	1.004	0.08	0.504	0.318	0.255	5.76	5.76	0.00	1553	373	0.337	0.115	-1.115	0.663	1.583	0.504	33.4	
250S137-54	0.0566	50	0.316	1.07	0.318	1.004	0.08	0.504	0.318	0.244	8.22	8.34	0.00	2353	565	0.337	0.115	-1.115	0.663	1.583	0.504	27.1	
250S137-68	0.0713	33	0.39	1.33	0.386	0.994	0.095	0.495	0.386	0.309	7.19	7.19	0.00	1891	342	0.661	0.138	-1.096	0.653	1.561	0.507	33.1	
250S137-68	0.0713	50	0.39	1.33	0.386	0.994	0.095	0.495	0.386	0.308	10.65	10.67	0.00	2866	519	0.661	0.138	-1.096	0.653	1.561	0.507	26.8	
250S137-97	0.1017	33	0.533	1.81	0.506	0.975	0.12	0.475	0.506	0.405	10.01	10.01	0.00	2506	283	1.839	0.176	-1.057	0.633	1.514	0.513	33.1	
250S137-97	0.1017	50	0.533	1.81	0.506	0.975	0.12	0.475	0.506	0.405	14.75	14.75	0.00	3798	429	1.839	0.176	-1.057	0.633	1.514	0.513	26.5	
250S162-33	0.0346	33	0.223	0.76	0.235	1.027	0.087	0.624	0.235	0.18	3.55	3.56	0.00	975	399	0.089	0.146	-1.47	0.859	1.898	0.401	44.1	
250S162-43	0.0451	33	0.289	0.98	0.302	1.022	0.111	0.62	0.302	0.24	5.22	5.25	0.00	1265	394	0.196	0.184	-1.457	0.852	1.885	0.402	42.1	
250S162-54	0.0566	33	0.358	1.22	0.37	1.016	0.135	0.613	0.37	0.296	6.57	6.57	0.00	1553	373	0.383	0.223	-1.443	0.845	1.868	0.403	41.8	
250S162-54	0.0566	50	0.358	1.22	0.37	1.016	0.135	0.613	0.37	0.284	9.42	9.46	0.00	2353	565	0.383	0.223	-1.443	0.845	1.868	0.403	33.9	
250S162-68	0.0713	33	0.443	1.51	0.45	1.007	0.162	0.605	0.45	0.36	8.21	8.21	0.00	1891	342	0.752	0.268	-1.424	0.835	1.846	0.405	41.7	
250S162-68	0.0713	50	0.443	1.51	0.45	1.007	0.162	0.605	0.45	0.357	12.11	12.21	0.00	2866	519	0.752	0.268	-1.424	0.835	1.846	0.405	33.7	
250S162-97	0.1017	33	0.61	2.07	0.596	0.989	0.209	0.586	0.596	0.477	11.45	11.45	0.00	2506	283	2.102	0.346	-1.386	0.815	1.801	0.408	41.9	
250S162-97	0.1017	50	0.61	2.07	0.596	0.989	0.209	0.586	0.596	0.477	16.93	16.93	0.00	3798	429	2.102	0.346	-1.386	0.815	1.801	0.408	33.5	
250S200-33	0.0346	33	0.258	0.88	0.279	1.04	0.154	0.773	0.265	0.182	5.44	5.41	3.8	1260	515	0.103	0.302	-1.926	1.108	2.321	0.312	45.3	
250S200-43	0.0451	33	0.334	1.14	0.358	1.036	0.198	0.769	0.358	0.252	7.56	7.64	0.00	1917	597	0.227	0.382	-1.914	1.101	2.308	0.312	45.3	
250S200-54	0.0566	33	0.415	1.41	0.44	1.03	0.241	0.763	0.44	0.352	7.65	7.65	0.00	1553	373	0.443	0.464	-1.899	1.093	2.291	0.313	53.7	
250S200-54	0.0566	50	0.415	1.41	0.44	1.03	0.241	0.763	0.44	0.321	9.6	10.11	0.00	2353	565	0.443	0.464	-1.899	1.093	2.291	0.313	45.5	
250S200-68	0.0713	33	0.515	1.75	0.537	1.022	0.293	0.754	0.537	0.43	9.57	9.57	0.00	1891	342	0.872	0.561	-1.881	1.084	2.27	0.313	53.7	
250S200-68	0.0713	50	0.515	1.75	0.537	1.022	0.293	0.754	0.537	0.417	13.84	14.27	0.00	2866	519	0.872	0.561	-1.881	1.084	2.27	0.313	43.4	
250S200-97	0.1017	33	0.711	2.42	0.718	1.005	0.386	0.736	0.718	0.575	13.36	13.36	0.00	2506	283	2.452	0.735	-1.843	1.063	2.224	0.314	54.2	
250S200-97	0.1017	50	0.711	2.42	0.718	1.005	0.386	0.736	0.718	0.575	19.82	19.82	0.00	3798	429	2.452	0.735	-1.843	1.063	2.224	0.314	43.4	
250S250-43	0.0451	33	0.379	1.29	0.426	1.06	0.336	0.941	0.426	0.297	5.87	6.24	0.00	1265	394	0.257	0.638	-2.404	1.359	2.791	0.258	66.8	
250S250-54	0.0566	33	0.471	1.6	0.524	1.055	0.412	0.935	0.524	0.379	7.49	8.22	0.00	1553	373	0.503	0.778	-2.389	1.351	2.774	0.258	67.3	
250S250-54	0.0566	50	0.471	1.6	0.524	1.055	0.412	0.935	0.521	0.341	10.22	11.02	0.00	2353	565	0.503	0.778	-2.389	1.351	2.774	0.258	54.1	
250S250-68	0.0713	33	0.586	1.99	0.643	1.047	0.503	0.926	0.643	0.495	10.79	11.19	0.00	1891	342	0.993	0.944	-2.371	1.341	2.752	0.258	64.6	
250S250-68	0.0713	50	0.586	1.99	0.643	1.047	0.503	0.926	0.643	0.446	13.35	15.59	0.00	2866	519	0.993	0.944	-2.371	1.341	2.752	0.258	54.5	
250S250-97	0.1017	33	0.813	2.77	0.864	1.031	0.67	0.908	0.864	0.69	15.6	15.62	0.00	2506	283	2.803	1.245	-2.332	1.32	2.707	0.258	65.6	
250S250-97	0.1017	50	0.813	2.77	0.864	1.031	0.67	0.908	0.864	0.663	22.31	23.26	0.00	3798	429	2.803	1.245	-2.332	1.32	2.707	0.258	52.4	
350S137-33	0.0346	33	0.232	0.79	0.441	1.38	0.059	0.503	0.441	0.223	4.41	4.54	0.00	1024	487	0.093	0.153	-1.016	0.621	1.786	0.676	34.8	
350S137-33	0.0346	33	0.232	0.79	0.441	1.38	0.059	0.503	0.441	0.223	4.41	4.54	0.00	1024	487	0.093	0.153	-1.016	0.621	1.786	0.676	34.8	
350S137-43	0.0451	33	0.3	1.02	0.568	1.375	0.075	0.498	0.568	0.307	6.07	6.38	0.00	1739	631	0.204	0.193	-1.005	0.615	1.774	0.679	34.7	
350S137-54	0.0566	33	0.372	1.27	0.696	1.367	0.09	0.492	0.696	0.385	7.61	7.86	0.00	2253	633	0.398	0.233	-0.991	0.607	1.759	0.683	34.7	
350S137-54	0.0566	50	0.372	1.27	0.696	1.367	0.09	0.492	0.696	0.366	10.95	11.42	0.00	3372	947	0.398	0.233	-0.991	0.607	1.759	0.683	28	
350S137-68	0.0713	33	0.461	1.57	0.849	1.357	0.107	0.482	0.849	0.474	11.04	11.31	0.00	2774	592	0.782	0.28	-0.973	0.598	1.738	0.687	31.8	
350S137-68	0.0713	50	0.461	1.57	0.849	1.357	0.107	0.482	0.849	0.472	14.12	14.53	0.00	4202	897	0.782	0.28	-0.973	0.598	1.738	0.687	27.9	
350S137-97	0.1017	33	0.635	2.16	1.13	1.334	0.136	0.462	1.13	0.629	15.54	15.95	0.00	3765	511	2.189	0.361	-0.935	0.579	1.693	0.695	31.1	
350S137-97	0.1017	50	0.635	2.16	1.13	1.334	0.136	0.462	1.13	0.629	22.9	23.49	0.00	5704	775	2.189	0.361	-0.935	0.579	1.693	0.695	25.2	
350S162-33	0.0346	33	0.258	0.88	0.508	1.404	0.098	0.617	0.508	0.257	5.08	5.22	0.00	1024	487	0.103	0.277	-1.324	0.796	2.026	0.573	42.7	
350S162-43	0.0451	33	0.334	1.14	0.654	1.4	0.125	0.612	0.654	0.357	7.05	7.31	0.00	1739	631	0.227	0.35	-1.312	0.789	2.014	0.575	42.6	
350S162-54	0.0566	33	0.415	1.41	0.804	1.392	0.152	0.606	0.804	0.447	8.83	9.08	0.00	2253	633	0.443	0.426	-1.298	0.782	1.998	0.578	42.7	
350S162-54	0.0566	50	0.415	1.41	0.804	1.392	0.152	0.606	0.804	0.426	12.74	13.05	0.00	3372	947	0.443	0.426	-1.298	0.782	1.998	0.578	34.5	
350S162-68	0.0713	33	0.515	1.75	0.985	1.383	0.184	0.597	0.985	0.551	12.56	12.83	0.00	2774	592	0.872	0.514	-1.28	0.772	1.977	0.581	39.7	
350S162-68	0.0713	50	0.515	1.75	0.985	1.383	0.184	0.597	0.985	0.549	16.44	16.84	0.00	4202	897	0.872	0.514	-1.28	0.772	1.977	0.581	34.5	
350S162-97	0.1017	33	0.711	2.42	1.32	1.362	0.238	0.578	1.32	0.738	17.71	18.11	0.00	3765	511	2.452	0.672	-1.242	0.752	1.932	0.587	39.1	
350S162-97	0.1017	50	0.711	2.42	1.32	1.362	0.238	0.578	1.32	0.738	26.18	26.76	0.00	5704	775	2.452	0.672	-1.242	0.752	1.932	0.587	31.7	
350S200-33	0.0346	33	0.292	0.99	0.598	1.431	0.175	0.773	0.597	0.283	5.59	5.95	0.00	1024	487	0.117	0.541	-1.76	1.039	2.396	0.461	53.7	
350S200-43	0.0451	33	0.379	1.29	0.771	1.426	0.224	0.768	0.771	0.41	8.09	8.36	0.00	1739	631	0.257	0.687	-1.748	1.032	2.383	0.462	53.7	
350S200-54	0.0566	33	0.471	1.6	0.95	1.42	0.274	0.762	0.95	0.53	10.47	10.73	0.00	2253	633	0.503	0.838	-1.733	1.024	2.367	0.464	53.8	
350S200-54	0.0566	50	0.471	1.6	0.95	1.42	0.274	0.762	0.95	0.47	14.07	14.86	0.00	3372	947	0.503	0.838	-1.733	1.024</				

STRUCTURAL STUD SECTION PROPERTIES

Section	Design Thickness (in)	Fy (Yield) (ksi)	Gross Properties							Effective Properties							Torsional Properties					
			Area (in ²)	Weight (lb/ft)	Ixx (in ⁴)	Rx (in)	Iyy (in ⁴)	Ry (in)	Ixx (in ⁴)	Sxx (in ³)	Ma-L (in-k)	Ma-D (in-k)	KΦc (in-lb/)	Vag (lb)	VaNet (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	b	Lu (in)
350S250-54	0.0566	50	0.528	1.8	1.118	1.455	0.467	0.94	1.113	0.494	14.78	15.92	0.00	3372	947	0.564	1.409	-2.205	1.278	2.804	0.382	52.1
350S250-68	0.0713	33	0.657	2.24	1.376	1.447	0.57	0.931	1.376	0.739	16.1	16.99	0.00	2774	592	1.114	1.718	-2.186	1.268	2.782	0.383	61.6
350S250-68	0.0713	50	0.657	2.24	1.376	1.447	0.57	0.931	1.376	0.661	19.78	21.31	0.00	4202	897	1.114	1.718	-2.186	1.268	2.782	0.383	52.2
350S250-97	0.1017	33	0.915	3.11	1.87	1.43	0.762	0.913	1.87	1.05	23.72	24.14	0.00	3765	511	3.154	2.291	-2.147	1.248	2.736	0.384	61.4
350S250-97	0.1017	50	0.915	3.11	1.87	1.43	0.762	0.913	1.87	0.998	33.58	35.43	0.00	5704	775	3.154	2.291	-2.147	1.248	2.736	0.384	49.5
350S300-54	0.0566	33	0.585	1.99	1.286	1.483	0.724	1.113	1.279	0.582	11.51	12.73	0.00	2253	633	0.624	2.166	-2.682	1.531	3.261	0.323	64.7
350S300-54	0.0566	50	0.585	1.99	1.286	1.483	0.724	1.113	1.213	0.508	15.2	16.71	0.00	3372	947	0.624	2.166	-2.682	1.531	3.261	0.323	70.4
350S300-68	0.0713	33	0.729	2.48	1.586	1.475	0.888	1.104	1.586	0.775	15.31	16.97	0.00	2774	592	1.235	2.649	-2.663	1.521	3.238	0.324	75.1
350S300-68	0.0713	50	0.729	2.48	1.586	1.475	0.888	1.104	1.557	0.687	20.56	22.55	0.00	4202	897	1.235	2.649	-2.663	1.521	3.238	0.324	60.5
350S300-97	0.1017	33	1.016	3.46	2.164	1.459	1.197	1.085	2.164	1.164	25.76	27.37	0.00	3765	511	3.504	3.552	-2.623	1.5	3.192	0.325	71.9
350S300-97	0.1017	50	1.016	3.46	2.164	1.459	1.197	1.085	2.144	1.098	32.89	34.99	0.00	5704	775	3.504	3.552	-2.623	1.5	3.192	0.325	61.1
362S137-33	0.0346	33	0.236	0.8	0.479	1.424	0.059	0.501	0.479	0.232	4.59	4.73	0.00	1024	521	0.094	0.165	-1.003	0.615	1.813	0.694	34.7
362S137-43	0.0451	33	0.306	1.04	0.616	1.419	0.075	0.497	0.616	0.32	6.32	6.65	0.00	1739	676	0.207	0.208	-0.991	0.608	1.801	0.697	34.6
362S137-54	0.0566	33	0.379	1.29	0.756	1.411	0.091	0.49	0.756	0.402	7.94	8.24	0.00	2341	705	0.405	0.251	-0.978	0.601	1.785	0.7	34.6
362S137-54	0.0566	50	0.379	1.29	0.756	1.411	0.091	0.49	0.756	0.381	11.42	11.91	0.00	3372	1016	0.405	0.251	-0.978	0.601	1.785	0.7	27.9
362S137-68	0.0713	33	0.47	1.6	0.922	1.401	0.109	0.48	0.922	0.498	9.84	10.06	0.00	2884	662	0.797	0.302	-0.959	0.592	1.764	0.704	34.6
362S137-68	0.0713	50	0.47	1.6	0.922	1.401	0.109	0.48	0.922	0.493	14.77	15.24	0.00	4370	1004	0.797	0.302	-0.959	0.592	1.764	0.704	27.8
362S137-97	0.1017	33	0.648	2.2	1.229	1.377	0.137	0.46	1.229	0.662	16.36	16.75	0.00	3922	577	2.233	0.39	-0.922	0.573	1.72	0.713	30.9
362S137-97	0.1017	50	0.648	2.2	1.229	1.377	0.137	0.46	1.229	0.662	24.1	24.67	0.00	5943	875	2.233	0.39	-0.922	0.573	1.72	0.713	25.1
362S162-33	0.0346	33	0.262	0.89	0.551	1.45	0.099	0.616	0.551	0.268	5.29	5.43	0.00	1024	521	0.105	0.297	-1.308	0.789	2.048	0.592	42.6
362S162-43	0.0451	33	0.34	1.16	0.71	1.445	0.127	0.611	0.71	0.372	7.34	7.62	0.00	1739	676	0.23	0.376	-1.297	0.782	2.036	0.594	42.5
362S162-54	0.0566	33	0.422	1.44	0.873	1.438	0.154	0.604	0.873	0.466	9.22	9.51	0.00	2341	705	0.451	0.457	-1.283	0.774	2.02	0.597	42.5
362S162-54	0.0566	50	0.422	1.44	0.873	1.438	0.154	0.604	0.873	0.444	13.28	13.59	0.00	3372	1016	0.451	0.457	-1.283	0.774	2.02	0.597	34.4
362S162-68	0.0713	33	0.524	1.78	1.069	1.429	0.186	0.596	1.069	0.579	11.43	11.65	0.00	2884	662	0.887	0.552	-1.264	0.765	1.998	0.6	42.7
362S162-68	0.0713	50	0.524	1.78	1.069	1.429	0.186	0.596	1.069	0.574	17.18	17.65	0.00	4370	1004	0.887	0.552	-1.264	0.765	1.998	0.6	34.3
362S162-97	0.1017	33	0.724	2.46	1.435	1.408	0.241	0.577	1.435	0.776	18.62	19	0.00	3922	577	2.496	0.723	-1.226	0.745	1.954	0.606	38.9
362S162-97	0.1017	50	0.724	2.46	1.435	1.408	0.241	0.577	1.435	0.776	27.52	28.08	0.00	5943	875	2.496	0.723	-1.226	0.745	1.954	0.606	31.5
362S162-118	0.1242	50	0.863	2.94	1.672	1.392	0.273	0.562	1.672	0.903	33.05	33.76	0.00	6996	784	4.440	0.827	-1.198	0.731	1.920	0.611	31.1
362S200-33	0.0346	33	0.297	1.01	0.648	1.478	0.177	0.772	0.647	0.294	5.81	6.18	0.00	1024	521	0.118	0.577	-1.741	1.03	2.411	0.478	53.6
362S200-43	0.0451	33	0.385	1.31	0.836	1.474	0.227	0.767	0.836	0.427	8.43	8.7	0.00	1739	676	0.261	0.734	-1.729	1.024	2.398	0.48	53.5
362S200-54	0.0566	33	0.479	1.63	1.03	1.467	0.277	0.761	1.03	0.553	10.93	11.23	0.00	2341	705	0.511	0.896	-1.715	1.016	2.382	0.482	53.6
362S200-54	0.0566	50	0.479	1.63	1.03	1.467	0.277	0.761	1.03	0.49	14.66	15.47	0.00	3372	1016	0.511	0.896	-1.715	1.016	2.382	0.482	43.3
362S200-68	0.0713	33	0.595	2.02	1.265	1.458	0.337	0.753	1.265	0.687	15.29	15.54	0.00	2884	662	1.008	1.089	-1.696	1.006	2.36	0.484	50.6
362S200-68	0.0713	50	0.595	2.02	1.265	1.458	0.337	0.753	1.265	0.666	19.95	20.51	0.00	4370	1004	1.008	1.089	-1.696	1.006	2.36	0.484	43.3
362S200-97	0.1017	33	0.826	2.81	1.711	1.44	0.446	0.735	1.711	0.928	21.59	21.95	0.00	3922	577	2.847	1.441	-1.658	0.986	2.315	0.487	50
362S200-97	0.1017	50	0.826	2.81	1.711	1.44	0.446	0.735	1.711	0.928	32.03	32.57	0.00	5943	875	2.847	1.441	-1.658	0.986	2.315	0.487	40.5
362S200-118	0.1242	50	0.988	3.36	2.006	1.425	0.513	0.721	2.006	1.088	38.54	39.22	0.00	6996	784	5.078	1.664	-1.629	0.971	2.281	0.490	40.2
362S250-33	0.0346	33	0.331	1.13	0.76	1.514	0.299	0.951	0.331	0.132	0.965	-2.211	1.284	2.844	0.395							
362S250-43	0.0451	33	0.43	1.46	0.98	1.51	0.385	0.946	0.98	0.449	8.88	9.35	0.00	1739	676	0.292	1.23	-2.199	1.277	2.83	0.396	64.2
362S250-54	0.0566	33	0.535	1.82	1.21	1.504	0.473	0.94	1.21	0.582	11.51	12.46	0.00	2341	705	0.571	1.506	-2.184	1.269	2.813	0.397	64.3
362S250-54	0.0566	50	0.535	1.82	1.21	1.504	0.473	0.94	1.205	0.514	15.4	16.54	0.00	3372	1016	0.571	1.506	-2.184	1.269	2.813	0.397	52
362S250-68	0.0713	33	0.666	2.27	1.49	1.496	0.578	0.931	1.49	0.774	16.85	17.68	0.00	2884	662	1.129	1.837	-2.165	1.259	2.791	0.398	61.4
362S250-68	0.0713	50	0.666	2.27	1.49	1.496	0.578	0.931	1.49	0.689	20.63	22.17	0.00	4370	1004	1.129	1.837	-2.165	1.259	2.791	0.398	52
362S250-97	0.1017	33	0.927	3.16	2.027	1.478	0.772	0.912	2.027	1.1	24.85	25.26	0.00	3922	577	3.197	2.452	-2.126	1.239	2.746	0.4	61
362S250-97	0.1017	50	0.927	3.16	2.027	1.478	0.772	0.912	2.027	1.046	35.17	36.93	0.00	5943	875	3.197	2.452	-2.126	1.239	2.746	0.4	49.3
362S250-118	0.1242	50	1.112	3.78	2.387	1.465	0.897	0.898	2.387	1.258	43.29	45.30	0.00	6996	784	5.717	2.849	-2.097	1.224	2.711	0.402	49.1
362S300-54	0.0566	33	0.592	2.01	1.39	1.533	0.734	1.114	1.383	0.607	11.99	13.22	0.00	2341	705	0.632	2.316	-2.659	1.522	3.265	0.337	74.5
362S300-54	0.0566	50	0.592	2.01	1.39	1.533	0.734	1.114	1.312	0.529	15.83	17.34	0.00	3372	1016	0.632	2.316	-2.659	1.522	3.265	0.337	60.2
362S300-68	0.0713	33	0.738	2.51	1.716	1.525	0.9	1.105	1.716	0.811	16.02	17.65	0.00	2884	662	1.25	2.833	-2.64	1.512	3.243	0.337	74.9
362S300-68	0.0713	50	0.738	2.51	1.716	1.525	0.9	1.105	1.684	0.716	21.44	23.42	0.00	4370	1004	1.25	2.833	-2.64	1.512	3.243	0.337	60.4
362S300-97	0.1017	33	1.029	3.5	2.343	1.509	1.213	1.086	2.343	1.217	26.95	28.61	0.00	3922	577	3.548	3.803	-2.6	1.491	3.196	0.338	71.6
362S300-97	0.1017	50	1.029	3.5	2.343	1.509	1.213	1.086	2.32	1.15	34.42	36.41	0.00	5943	875	3.548	3.803	-2.6	1.491	3.196	0.338	60.9
362S300-11																						

STRUCTURAL STUD SECTION PROPERTIES

Section	Design Thickness (in)	Fy (Yield) (ksi)	Area (in ²)	Weight (lb/ft)	Gross Properties					Effective Properties					Torsional Properties							
					Ixx (in ⁴)	Rx (in)	Iyy (in ⁴)	Ry (in)	Ixx (in ⁴)	Sxx (in ³)	Ma-L (in-k)	Ma-D (in-k)	KΦc (in-lb/)	Vag (lb)	VaNet (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	b	Lu (in)
400S137-43	0.0451	33	0.323	1.10	0.776	1.551	0.078	0.491	0.776	0.359	7.09	7.47	0.00	1739	810	0.219	0.257	-0.954	0.591	1.885	0.744	34.3
400S137-54	0.0566	33	0.401	1.36	0.953	1.542	0.094	0.484	0.953	0.453	8.96	9.42	0.00	2603	944	0.428	0.311	-0.940	0.583	1.870	0.747	34.3
400S137-54	0.0566	50	0.401	1.36	0.953	1.542	0.094	0.484	0.953	0.428	12.82	13.38	0.00	3372	1223	0.428	0.311	-0.940	0.583	1.870	0.747	27.7
400S137-68	0.0713	33	0.497	1.69	1.165	1.531	0.112	0.475	1.165	0.567	11.21	11.51	0.00	3215	895	0.842	0.375	-0.922	0.574	1.849	0.751	34.2
400S137-68	0.0713	50	0.497	1.69	1.165	1.531	0.112	0.475	1.165	0.558	16.70	17.44	0.00	4871	1356	0.842	0.375	-0.922	0.574	1.849	0.751	27.6
400S162-33	0.0346	33	0.275	0.94	0.692	1.586	0.103	0.611	0.692	0.299	5.91	6.07	0.00	976	595	0.110	0.363	-1.263	0.768	2.118	0.644	42.3
400S162-43	0.0451	33	0.357	1.21	0.892	1.581	0.131	0.606	0.892	0.417	8.23	8.54	0.00	1739	810	0.242	0.460	-1.252	0.761	2.106	0.647	42.2
400S162-54	0.0566	33	0.443	1.51	1.098	1.574	0.159	0.600	1.098	0.526	10.39	10.85	0.00	2603	944	0.473	0.560	-1.238	0.754	2.090	0.649	42.2
400S162-54	0.0566	50	0.443	1.51	1.098	1.574	0.159	0.600	1.098	0.498	14.90	15.25	0.00	3372	1223	0.473	0.560	-1.238	0.754	2.090	0.649	34.1
400S162-68	0.0713	33	0.550	1.87	1.346	1.564	0.192	0.591	1.346	0.658	13.00	13.30	0.00	3215	895	0.933	0.677	-1.220	0.745	2.069	0.653	42.2
400S162-68	0.0713	50	0.550	1.87	1.346	1.564	0.192	0.591	1.346	0.648	19.41	20.15	0.00	4871	1356	0.933	0.677	-1.220	0.745	2.069	0.653	34.0
400S162-97	0.1017	33	0.762	2.59	1.812	1.542	0.249	0.572	1.812	0.892	21.4	21.75	0.00	4394	797	2.628	0.889	-1.182	0.725	2.025	0.659	38.3
400S162-97	0.1017	50	0.762	2.59	1.812	1.542	0.249	0.572	1.812	0.892	31.64	32.15	0.00	6658	1207	2.628	0.889	-1.182	0.725	2.025	0.659	31.1
400S162-118	0.1242	50	0.910	3.10	2.118	1.525	0.282	0.557	2.118	1.041	38.10	38.74	0.00	7869	1102	4.679	1.020	-1.154	0.711	1.992	0.664	30.6
400S200-33	0.0346	33	0.31	1.05	0.812	1.619	0.183	0.769	0.812	0.328	6.49	6.9	0.00	976	595	0.124	0.697	-1.688	1.007	2.462	0.53	53.1
400S200-43	0.0451	33	0.402	1.37	1.047	1.615	0.235	0.764	1.047	0.478	9.45	9.74	0.00	1739	810	0.272	0.886	-1.676	1	2.449	0.532	53
400S200-54	0.0566	33	0.5	1.7	1.292	1.608	0.287	0.758	1.292	0.623	12.3	12.77	0.00	2603	944	0.534	1.083	-1.662	0.993	2.433	0.534	53
400S200-54	0.0566	50	0.5	1.7	1.292	1.608	0.287	0.758	1.292	0.549	16.43	17.31	0.00	3372	1223	0.534	1.083	-1.662	0.993	2.433	0.534	42.9
400S200-68	0.0713	33	0.622	2.12	1.589	1.599	0.349	0.75	1.589	0.78	15.4	15.7	0.00	3215	895	1.054	1.318	-1.643	0.983	2.412	0.536	53.2
400S200-68	0.0713	50	0.622	2.12	1.589	1.599	0.349	0.75	1.589	0.751	22.48	23.03	0.00	4871	1356	1.054	1.318	-1.643	0.983	2.412	0.536	42.9
400S200-97	0.1017	33	0.864	2.94	2.155	1.579	0.462	0.731	2.155	1.063	24.72	25.05	0.00	4394	797	2.978	1.749	-1.605	0.963	2.368	0.54	49.3
400S200-97	0.1017	50	0.864	2.94	2.155	1.579	0.462	0.731	2.155	1.063	36.68	37.17	0.00	6658	1207	2.978	1.749	-1.605	0.963	2.368	0.54	39.9
400S200-118	0.1242	50	1.034	3.52	2.532	1.565	0.532	0.717	2.532	1.248	44.23	44.85	0.00	7869	1102	5.318	2.024	-1.577	0.948	2.334	0.544	39.5
400S250-33	0.0346	33	0.344	1.17	0.948	1.659	0.31	0.949								0.137	1.165	-2.151	1.259	2.878	0.441	
400S250-43	0.0451	33	0.447	1.52	1.224	1.655	0.399	0.945	1.224	0.503	9.93	10.41	0.00	1739	810	0.303	1.486	-2.139	1.252	2.864	0.443	63.7
400S250-54	0.0566	33	0.556	1.89	1.512	1.649	0.49	0.938	1.512	0.653	12.9	13.91	0.00	2603	944	0.594	1.821	-2.124	1.244	2.848	0.444	63.8
400S250-54	0.0566	50	0.556	1.89	1.512	1.649	0.49	0.938	1.506	0.576	17.24	18.42	0.00	3372	1223	0.594	1.821	-2.124	1.244	2.848	0.444	51.6
400S250-68	0.0713	33	0.693	2.36	1.864	1.64	0.599	0.929	1.864	0.883	17.45	18.42	0.00	3215	895	1.174	2.225	-2.105	1.235	2.826	0.445	64
400S250-68	0.0713	50	0.693	2.36	1.864	1.64	0.599	0.929	1.864	0.775	23.19	24.76	0.00	4871	1356	1.174	2.225	-2.105	1.235	2.826	0.445	51.6
400S250-97	0.1017	33	0.966	3.29	2.541	1.622	0.801	0.911	2.541	1.253	28.31	28.7	0.00	4394	797	3.329	2.978	-2.066	1.214	2.78	0.448	60.3
400S250-97	0.1017	50	0.966	3.29	2.541	1.622	0.801	0.911	2.541	1.191	40.06	41.47	0.00	6658	1207	3.329	2.978	-2.066	1.214	2.78	0.448	48.8
400S250-118	0.1242	50	1.158	3.94	2.998	1.609	0.931	0.897	2.998	1.436	49.40	51.57	0.00	7869	1102	5.956	3.467	-2.037	1.199	2.746	0.450	48.5
400S300-54	0.0566	33	0.613	2.09	1.732	1.681	0.76	1.114	1.723	0.68	13.44	14.7	0.00	2603	944	0.655	2.802	-2.594	1.496	3.285	0.377	74
400S300-54	0.0566	50	0.613	2.09	1.732	1.681	0.76	1.114	1.637	0.592	17.72	19.24	0.00	3372	1223	0.655	2.802	-2.594	1.496	3.285	0.377	59.9
400S300-68	0.0713	33	0.764	2.6	2.139	1.673	0.933	1.105	2.139	0.914	18.06	19.68	0.00	3215	895	1.295	3.432	-2.574	1.486	3.263	0.378	74.3
400S300-68	0.0713	50	0.764	2.6	2.139	1.673	0.933	1.105	2.099	0.805	24.09	26.05	0.00	4871	1356	1.295	3.432	-2.574	1.486	3.263	0.378	60
400S300-97	0.1017	33	1.067	3.63	2.928	1.656	1.258	1.086	2.928	1.381	30.58	32.4	0.00	4394	797	3.679	4.619	-2.535	1.465	3.216	0.379	70.8
400S300-97	0.1017	50	1.067	3.63	2.928	1.656	1.258	1.086	2.897	1.307	39.12	40.72	0.00	6658	1207	3.679	4.619	-2.535	1.465	3.216	0.379	60.3
400S300-118	0.1242	50	1.283	4.36	3.464	1.644	1.472	1.071	3.444	1.632	54.98	56.23	0.00	7869	1102	6.595	5.401	-2.505	1.450	3.182	0.380	57.1
400S350-54	0.0566	50	0.712	2.42	2.012	1.681	1.286	1.344	1.899	0.735	22.01	23.68	0.00	3372	1223	0.760	6.333	-3.375	1.927	4.003	0.289	77.6
400S350-68	0.0713	50	0.889	3.03	2.491	1.674	1.586	1.336	2.474	1.007	30.16	31.88	0.00	4871	1356	1.507	7.786	-3.357	1.917	3.982	0.289	77.8
400S350-97	0.1017	50	1.245	4.24	3.422	1.658	2.164	1.318	3.422	1.520	45.50	49.33	0.00	6658	1207	4.293	10.555	-3.319	1.897	3.937	0.289	78.3
400S350-118	0.1242	50	1.500	5.10	4.063	1.646	2.555	1.305	4.063	1.923	63.80	67.06	0.00	7869	1102	7.712	12.410	-3.290	1.882	3.904	0.290	74.7
550S137-33	0.0346	33	0.301	1.02	1.283	2.064	0.067	0.472	1.283	0.453	8.95	7.48	114.3	699	699	0.12	0.411	-0.841	0.536	2.278	0.864	33.7
550S137-43	0.0451	33	0.391	1.33	1.655	2.059	0.085	0.467	1.655	0.592	13.08	11.6	174.5	1550	1199	0.265	0.52	-0.83	0.53	2.268	0.866	31.7
550S137-54	0.0566	33	0.486	1.65	2.039	2.049	0.103	0.46	2.039	0.741	16.77	15.9	157.9	2739	1666	0.519	0.632	-0.817	0.523	2.254	0.868	31.1
550S137-54	0.0566	50	0.486	1.65	2.039	2.049	0.103	0.46	2.039	0.714	24.03	20.88	419.4	3093	1881	0.519	0.632	-0.817	0.523	2.254	0.868	25.4
550S137-68	0.0713	33	0.604	2.05	2.503	2.036	0.123	0.451	2.503	0.91	21.22	21.22	0.00	4347	2057	1.023	0.764	-0.801	0.514	2.234	0.871	30.4
550S137-68	0.0713	50	0.604	2.05	2.503	2.036	0.123	0.451	2.503	0.909	31.42	28.89	545.9	5350	2532	1.023	0.764	-0.801	0.514	2.234	0.871	24.9
550S137-97	0.1017	33	0.838	2.85	3.38	2.008	0.155	0.43	3.38	1.229	30.35	30.35	0.00	6282	1997	2.891	0.997	-0.766	0.497	2.192	0.878	29.2
550S137-97	0.1017	50	0.838	2.85	3.38	2.008	0.155	0.43	3.38	1.229	44.72	44.72	0.00	9518	3026	2.891	0.997	-0.766	0.497	2.192	0.878	23.9
550S162-33	0.0346	33	0.327	1.11	1.458	2.112	0.113	0.589	1.458	0.512	10.11	8.63	91.3									

STRUCTURAL STUD SECTION PROPERTIES

Section	Design Thickness (in)	Fy (Yield) (ksi)	Gross Properties						Effective Properties						Torsional Properties							
			Area (in ²)	Weight (lb/ft)	Ixx (in ⁴)	Rx (in)	Iyy (in ⁴)	Ry (in)	Ixx (in ⁴)	Sxx (in ³)	Ma-L (in-k)	Ma-D (in-k)	KΦc (in-lb)	Vag (lb)	VaNet (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	b	Lu (in)
550S162-97	0.1017	50	0.915	3.11	3.886	2.061	0.276	0.549	3.886	1.413	50.13	50.13	0.00	9518	3026	3.154	1.775	-1.037	0.656	2.372	0.809	30
550S200-33	0.0346	33	0.362	1.23	1.694	2.164	0.204	0.751	1.678	0.559	11.05	9.8	58.5	699	699	0.144	1.326	-1.508	0.925	2.742	0.698	51.9
550S200-43	0.0451	33	0.469	1.6	2.189	2.159	0.261	0.746	2.189	0.776	15.33	13.96	112.2	1550	1199	0.318	1.691	-1.496	0.918	2.731	0.7	51.7
550S200-54	0.0566	33	0.585	1.99	2.706	2.152	0.32	0.739	2.706	0.984	21.41	19.98	173.9	2739	1666	0.624	2.072	-1.483	0.911	2.716	0.702	49.2
550S200-54	0.0566	50	0.585	1.99	2.706	2.152	0.32	0.739	2.706	0.901	26.98	24.84	180.4	3093	1881	0.624	2.072	-1.483	0.911	2.716	0.702	41.8
550S200-68	0.0713	33	0.729	2.48	3.341	2.141	0.389	0.731	3.341	1.215	27.03	27.03	0.00	4347	2057	1.235	2.531	-1.465	0.902	2.695	0.705	48.5
550S200-68	0.0713	50	0.729	2.48	3.341	2.141	0.389	0.731	3.341	1.17	38.83	35.92	380.3	5350	2532	1.235	2.531	-1.465	0.902	2.695	0.705	39.6
550S200-97	0.1017	33	1.016	3.46	4.563	2.119	0.515	0.712	4.563	1.659	38.58	38.58	0.00	6282	1997	3.504	3.384	-1.428	0.882	2.652	0.71	47.4
550S200-97	0.1017	50	1.016	3.46	4.563	2.119	0.515	0.712	4.563	1.659	57.25	57.25	0.00	9518	3026	3.504	3.384	-1.428	0.882	2.652	0.71	38.6
550S250-33	0.0346	33	0.396	1.35	1.952	2.22	0.346	0.935					0.00			0.158	2.219	-1.945	1.169	3.095	0.605	
550S250-43	0.0451	33	0.515	1.75	2.524	2.215	0.445	0.93	2.524	0.817	16.15	14.74	94.1	1550	1199	0.349	2.837	-1.933	1.163	3.083	0.607	62.6
550S250-54	0.0566	33	0.641	2.18	3.126	2.208	0.547	0.923	3.126	1.033	20.4	19.87	53.3	2739	1666	0.685	3.486	-1.919	1.155	3.067	0.609	62.6
550S250-54	0.0566	50	0.641	2.18	3.126	2.208	0.547	0.923	3.084	0.95	28.44	26.11	166.4	3093	1881	0.685	3.486	-1.919	1.155	3.067	0.609	50.7
550S250-68	0.0713	33	0.8	2.72	3.866	2.198	0.669	0.914	3.866	1.345	29.28	28.52	117.8	4347	2057	1.356	4.274	-1.9	1.146	3.046	0.611	59.5
550S250-68	0.0713	50	0.8	2.72	3.866	2.198	0.669	0.914	3.864	1.233	36.91	35.43	164.4	5350	2532	1.356	4.274	-1.9	1.146	3.046	0.611	50.6
550S250-97	0.1017	33	1.118	3.8	5.304	2.178	0.897	0.895	5.304	1.925	43.47	43.57	0.00	6282	1997	3.855	5.761	-1.862	1.126	3.002	0.615	58.4
550S250-97	0.1017	50	1.118	3.8	5.304	2.178	0.897	0.895	5.304	1.837	61.77	60.32	328	9518	3026	3.855	5.761	-1.862	1.126	3.002	0.615	47.6
550S300-54	0.0566	33	0.698	2.37	3.545	2.254	0.85	1.104	3.505	1.08	21.34	20.74	51.4	2739	1666	0.745	5.364	-2.365	1.401	3.449	0.53	73
550S300-54	0.0566	50	0.698	2.37	3.545	2.254	0.85	1.104	3.295	0.983	29.44	27	156.5	3093	1881	0.745	5.364	-2.365	1.401	3.449	0.53	59.2
550S300-68	0.0713	33	0.871	2.96	4.391	2.245	1.044	1.095	4.384	1.411	27.88	28.03	0.00	4347	2057	1.476	6.594	-2.346	1.391	3.427	0.531	73.1
550S300-68	0.0713	50	0.871	2.96	4.391	2.245	1.044	1.095	4.285	1.287	38.53	36.85	164.5	5350	2532	1.476	6.594	-2.346	1.391	3.427	0.531	59.1
550S300-97	0.1017	33	1.22	4.15	6.045	2.226	1.411	1.075	6.045	2.101	46.52	47.35	0.00	6282	1997	4.205	8.937	-2.307	1.371	3.381	0.535	69.1
550S300-97	0.1017	50	1.22	4.15	6.045	2.226	1.411	1.075	5.964	2.005	60.02	58.54	315.2	9518	3026	4.205	8.937	-2.307	1.371	3.381	0.535	59.1
600S137-33	0.0346	33	0.318	1.08	1.582	2.229	0.069	0.464	1.548	0.455	8.98	8.18	43.2	638	638	0.127	0.5	-0.807	0.519	2.416	0.889	33.5
600S137-33	0.0346	33	0.318	1.08	1.582	2.229	0.069	0.464	1.548	0.455	8.98	8.18	43.2	638	638	0.127	0.500	-0.807	0.519	2.416	0.889	33.5
600S137-43	0.0451	33	0.413	1.41	2.042	2.223	0.087	0.459	2.041	0.645	12.74	11.82	90.2	1416	1240	0.28	0.633	-0.796	0.513	2.406	0.89	33.3
600S137-43	0.0451	33	0.413	1.41	2.042	2.223	0.087	0.459	2.041	0.645	12.74	11.82	90.2	1416	1240	0.280	0.633	-0.796	0.513	2.406	0.890	33.3
600S137-54	0.0566	33	0.514	1.75	2.518	2.213	0.105	0.452	2.518	0.832	16.44	15.95	82	2739	1890	0.549	0.769	-0.784	0.506	2.391	0.893	33
600S137-54	0.0566	50	0.514	1.75	2.518	2.213	0.105	0.452	2.518	0.777	23.26	21.24	226.8	2823	1947	0.549	0.769	-0.784	0.506	2.391	0.893	26.8
600S137-68	0.0713	33	0.64	2.18	3.094	2.2	0.125	0.443	3.094	1.031	24.05	24.05	0.00	4347	2339	1.084	0.93	-0.768	0.497	2.371	0.895	30.1
600S137-68	0.0713	50	0.64	2.18	3.094	2.2	0.125	0.443	3.094	1.03	30.84	28.89	394.7	5350	2879	1.084	0.93	-0.768	0.497	2.371	0.895	26.5
600S137-97	0.1017	33	0.889	3.03	4.188	2.17	0.159	0.422	4.188	1.396	34.48	34.48	0.00	6911	2512	3.066	1.216	-0.734	0.48	2.33	0.901	28.8
600S137-97	0.1017	50	0.889	3.03	4.188	2.17	0.159	0.422	4.188	1.396	50.8	50.8	0.00	10472	3805	3.066	1.216	-0.734	0.48	2.33	0.901	23.6
600S162-33	0.0346	33	0.344	1.17	1.793	2.282	0.116	0.581	1.793	0.577	11.41	9.47	102.4	638	638	0.137	0.861	-1.072	0.677	2.587	0.828	41.1
600S162-43	0.0451	33	0.447	1.52	2.316	2.276	0.148	0.576	2.316	0.767	16.68	14.46	182.3	1416	1240	0.303	1.095	-1.062	0.67	2.577	0.83	39
600S162-54	0.0566	33	0.556	1.89	2.86	2.267	0.18	0.57	2.86	0.953	21.17	19.75	173.3	2739	1890	0.594	1.337	-1.049	0.663	2.562	0.832	38.4
600S162-54	0.0566	50	0.556	1.89	2.86	2.267	0.18	0.57	2.86	0.916	30.33	25.9	396.6	2823	1947	0.594	1.337	-1.049	0.663	2.562	0.832	31.4
600S162-68	0.0713	33	0.693	2.36	3.525	2.255	0.218	0.56	3.525	1.175	26.79	26.79	0.00	4347	2339	1.174	1.626	-1.032	0.655	2.543	0.835	37.7
600S162-68	0.0713	50	0.693	2.36	3.525	2.255	0.218	0.56	3.525	1.164	39.47	35.7	534.3	5350	2879	1.174	1.626	-1.032	0.655	2.543	0.835	30.8
600S162-97	0.1017	33	0.966	3.29	4.797	2.229	0.283	0.541	4.797	1.599	38.37	38.37	0.00	6911	2512	3.329	2.153	-0.997	0.636	2.501	0.841	36.4
600S162-97	0.1017	50	0.966	3.29	4.797	2.229	0.283	0.541	4.797	1.599	56.73	56.73	0.00	10472	3805	3.329	2.153	-0.997	0.636	2.501	0.841	29.8
600S162-118	0.1242	50	1.158	3.94	5.652	2.209	0.321	0.526	5.652	1.884	68.94	68.94	0.00	12526	3622	5.956	2.487	-0.971	0.623	2.470	0.845	29.1
600S200-33	0.0346	33	0.379	1.29	2.075	2.34	0.209	0.743	2.058	0.621	12.28	10.76	58.8	638	638	0.151	1.593	-1.457	0.901	2.855	0.74	51.6
600S200-43	0.0451	33	0.492	1.67	2.683	2.335	0.268	0.739	2.683	0.873	17.24	15.39	128.7	1416	1240	0.334	2.033	-1.446	0.894	2.844	0.742	51.4
600S200-54	0.0566	33	0.613	2.09	3.319	2.327	0.328	0.732	3.319	1.106	24.07	22.07	205.1	2739	1890	0.655	2.493	-1.432	0.887	2.829	0.744	48.9
600S200-54	0.0566	50	0.613	2.09	3.319	2.327	0.328	0.732	3.319	1.015	30.4	27.38	216.3	2823	1947	0.655	2.493	-1.432	0.887	2.829	0.744	41.6
600S200-68	0.0713	33	0.764	2.6	4.101	2.316	0.4	0.723	4.101	1.367	30.42	29.97	69.1	4347	2339	1.295	3.047	-1.415	0.878	2.809	0.746	48.2
600S200-68	0.0713	50	0.764	2.6	4.101	2.316	0.4	0.723	4.101	1.317	43.71	39.69	443.7	5350	2879	1.295	3.047	-1.415	0.878	2.809	0.746	39.3
600S200-97	0.1017	33	1.067	3.63	5.612	2.293	0.53	0.705	5.612	1.871	43.49	43.49	0.00	6911	2512	3.679	4.08	-1.378	0.859	2.767	0.752	46.9
600S200-97	0.1017	50	1.067	3.63	5.612	2.293	0.53	0.705	5.612	1.871	64.53	63.67	196.7	10472	3805	3.679	4.08	-1.378	0.859	2.767	0.752	38.3
600S200-118	0.1242	50	1.283	4.36	6.641	2.275	0.611	0.690	6.641	2.214	78.44	78.44	0.00	12526	3622	6.595	4.753	-1.351	0.845	2.735	0.756	37.6
600S250-33	0.0346	33	0.413	1.41	2.383	2.401	0.356	0.928					0.00			0.165	2.666	-1				

STRUCTURAL STUD SECTION PROPERTIES

Section	Design Thickness (in)	Fy (Yield) (ksi)	Gross Properties							Effective Properties							Torsional Properties					
			Area (in ²)	Weight (lb/ft)	Ixx (in ⁴)	Rx (in)	Iyy (in ⁴)	Ry (in)	Ixx (in ⁴)	Sxx (in ³)	Ma-L (in-k)	Ma-D (in-k)	KØc (in-lb/)	Vag (lb)	VaNet (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	b	Lu (in)
600S250-97	0.1017	50	1.169	3.98	6.496	2.357	0.923	0.889	6.496	2.063	69.38	66.81	488.5	10472	3805	4.03	6.947	-1.803	1.1	3.098	0.661	47.3
600S250-118	0.1242	50	1.407	4.79	7.713	2.342	1.075	0.874	7.713	2.498	85.92	86.83	0.00	12526	3622	7.234	8.142	-1.775	1.085	3.066	0.665	46.6
600S300-54	0.0566	33	0.726	2.47	4.319	2.439	0.875	1.098	4.269	1.211	23.93	22.8	83.5	2739	1890	0.775	6.452	-2.299	1.372	3.527	0.575	72.8
600S300-54	0.0566	50	0.726	2.47	4.319	2.439	0.875	1.098	4.014	1.106	33.13	29.62	192.1	2823	1947	0.775	6.452	-2.299	1.372	3.527	0.575	59.1
600S300-68	0.0713	33	0.907	3.09	5.354	2.43	1.075	1.089	5.344	1.581	31.23	30.88	40.7	4347	2339	1.537	7.937	-2.28	1.363	3.505	0.577	72.8
600S300-68	0.0713	50	0.907	3.09	5.354	2.43	1.075	1.089	5.221	1.446	43.3	40.53	231.4	5350	2879	1.537	7.937	-2.28	1.363	3.505	0.577	59
600S300-97	0.1017	33	1.271	4.32	7.381	2.41	1.454	1.07	7.381	2.352	52.07	52.4	0.00	6911	2512	4.381	10.776	-2.241	1.343	3.461	0.581	68.8
600S300-97	0.1017	50	1.271	4.32	7.381	2.41	1.454	1.07	7.28	2.247	67.28	64.67	471.1	10472	3805	4.381	10.776	-2.241	1.343	3.461	0.581	58.8
600S300-118	0.1242	50	1.531	5.21	8.785	2.395	1.704	1.055	8.713	2.797	94.24	90.37	0.00	12526	3622	7.872	12.683	-2.212	1.328	3.427	0.583	55.3
600S350-54	0.0566	50	0.825	2.81	5.022	2.467	1.491	1.344	4.721	1.335	39.97	36.56	0.00	2823	1947	0.881	12.942	-3.037	1.787	4.137	0.461	74.4
600S350-68	0.0713	50	1.032	3.51	6.237	2.459	1.841	1.336	6.166	1.771	53.01	49.70	0.00	5350	2879	1.748	15.968	-3.018	1.777	4.115	0.462	74.4
600S350-97	0.1017	50	1.449	4.93	8.631	2.441	2.518	1.318	8.631	2.593	77.64	78.36	0.00	10472	3805	4.994	21.811	-2.979	1.757	4.071	0.464	74.4
600S350-118	0.1242	50	1.748	5.95	10.304	2.428	2.978	1.305	10.304	3.268	108.43	107.66	0.00	12526	3622	8.990	25.791	-2.951	1.742	4.038	0.466	70.6
725S125-33 ¹	0.0346	33	0.34	1.16	2.251	2.573	0.043	0.357	2.114	0.456	9	7.55	92.7	525	525	0.136	0.464	-0.549	0.366	2.655	0.957	27
725S125-43	0.0451	33	0.441	1.5	2.905	2.566	0.055	0.352	2.835	0.691	13.65	11.46	255.9	1163	1163	0.299	0.586	-0.54	0.361	2.646	0.958	26.7
725S125-54	0.0566	33	0.549	1.87	3.582	2.554	0.065	0.344	3.582	0.92	18.17	16.18	378.4	2316	2072	0.587	0.708	-0.528	0.354	2.631	0.96	26.4
725S125-54	0.0566	50	0.549	1.87	3.582	2.554	0.065	0.344	3.504	0.841	25.18	21.1	558	2316	2072	0.587	0.708	-0.528	0.354	2.631	0.96	21.4
725S125-68	0.0713	33	0.684	2.33	4.403	2.537	0.076	0.334	4.396	1.21	23.91	22.63	420.9	4347	3044	1.159	0.851	-0.514	0.347	2.61	0.961	26
725S125-68	0.0713	50	0.684	2.33	4.403	2.537	0.076	0.334	4.396	1.141	34.15	30.02	946.3	4680	3278	1.159	0.851	-0.514	0.347	2.61	0.961	21.1
725S137-33 ¹	0.0346	33	0.362	1.23	2.509	2.634	0.072	0.445	2.392	0.559	11.05	9.82	45.8	525	525	0.144	0.766	-0.733	0.48	2.77	0.93	32.9
725S137-43	0.0451	33	0.469	1.6	3.241	2.628	0.091	0.441	3.178	0.802	15.84	14.36	97.3	1163	1163	0.318	0.971	-0.724	0.474	2.761	0.931	32.6
725S137-54	0.0566	33	0.585	1.99	4.003	2.617	0.11	0.434	4.003	1.048	20.72	19.64	116.6	2316	2072	0.624	1.181	-0.712	0.468	2.746	0.933	32.4
725S137-54	0.0566	50	0.585	1.99	4.003	2.617	0.11	0.434	3.945	0.968	28.99	25.88	237.8	2316	2072	0.624	1.181	-0.712	0.468	2.746	0.933	26.2
725S137-68	0.0713	33	0.729	2.48	4.932	2.602	0.131	0.424	4.932	1.359	26.86	26.63	42.4	4347	3044	1.235	1.43	-0.697	0.46	2.726	0.935	32.1
725S137-68	0.0713	50	0.729	2.48	4.932	2.602	0.131	0.424	4.932	1.304	39.03	35.69	448.5	4680	3278	1.235	1.43	-0.697	0.46	2.726	0.935	26
725S137-97	0.1017	33	1.016	3.46	6.71	2.569	0.166	0.404	6.71	1.851	36.58	36.58	0.00	8484	4049	3.504	1.875	-0.665	0.443	2.685	0.939	31.5
725S137-97	0.1017	50	1.016	3.46	6.71	2.569	0.166	0.404	6.71	1.851	55.42	55.42	0.00	10885	5195	3.504	1.875	-0.665	0.443	2.685	0.939	25.4
725S162-33 ¹	0.0346	33	0.388	1.32	2.822	2.698	0.122	0.562	2.706	0.638	12.61	11.48	32.8	525	525	0.155	1.309	-0.982	0.631	2.926	0.887	40.5
725S162-43	0.0451	33	0.503	1.71	3.648	2.692	0.156	0.557	3.585	0.913	18.04	16.6	73.8	1163	1163	0.341	1.666	-0.972	0.625	2.916	0.889	40.2
725S162-54	0.0566	33	0.627	2.13	4.513	2.683	0.19	0.55	4.513	1.188	23.48	22.49	82.6	2316	2072	0.67	2.036	-0.96	0.618	2.902	0.891	40
725S162-54	0.0566	50	0.627	2.13	4.513	2.683	0.19	0.55	4.455	1.1	32.93	29.69	189.1	2316	2072	0.67	2.036	-0.96	0.618	2.902	0.891	32.5
725S162-68	0.0713	33	0.782	2.66	5.572	2.669	0.229	0.541	5.572	1.536	30.35	30.24	15.7	4347	3044	1.325	2.479	-0.944	0.61	2.882	0.893	39.8
725S162-68	0.0713	50	0.782	2.66	5.572	2.669	0.229	0.541	5.572	1.479	44.29	40.57	378.5	4680	3278	1.325	2.479	-0.944	0.61	2.882	0.893	32.2
725S162-97	0.1017	33	1.093	3.72	7.618	2.64	0.297	0.522	7.618	2.101	50.43	50.43	0.00	8484	4049	3.767	3.293	-0.911	0.592	2.841	0.897	35.6
725S162-97	0.1017	50	1.093	3.72	7.618	2.64	0.297	0.522	7.618	2.101	74.54	72.43	418.2	10885	5195	3.767	3.293	-0.911	0.592	2.841	0.897	29.1
725S200-33 ¹	0.0346	33	0.422	1.44	3.241	2.771	0.221	0.724	3.234	0.743	14.67	13.14	37.4	525	525	0.168	2.395	-1.346	0.847	3.164	0.819	50.9
725S200-43	0.0451	33	0.548	1.87	4.193	2.765	0.284	0.719	4.193	1.131	22.34	18.92	167.9	1163	1163	0.372	3.059	-1.335	0.84	3.154	0.821	50.7
725S200-54	0.0566	33	0.684	2.33	5.195	2.756	0.347	0.713	5.195	1.433	31.18	27.29	278.5	2316	2072	0.73	3.755	-1.322	0.833	3.139	0.823	48.1
725S200-54	0.0566	50	0.684	2.33	5.195	2.756	0.347	0.713	5.195	1.321	39.55	33.68	301.7	2316	2072	0.73	3.755	-1.322	0.833	3.139	0.823	41
725S200-68	0.0713	33	0.853	2.9	6.428	2.744	0.423	0.704	6.428	1.773	39.46	37.37	222.1	4347	3044	1.446	4.596	-1.305	0.824	3.119	0.825	47.4
725S200-68	0.0713	50	0.853	2.9	6.428	2.744	0.423	0.704	6.428	1.71	56.77	49.12	597.1	4680	3278	1.446	4.596	-1.305	0.824	3.119	0.825	38.7
725S200-97	0.1017	33	1.194	4.06	8.831	2.719	0.561	0.685	8.831	2.436	56.64	56.64	0.00	8484	4049	4.118	6.175	-1.27	0.806	3.078	0.83	46
725S200-97	0.1017	50	1.194	4.06	8.831	2.719	0.561	0.685	8.831	2.436	84.04	79.95	643.8	10885	5195	4.118	6.175	-1.27	0.806	3.078	0.83	37.6
725S250-43	0.0451	33	0.593	2.02	4.778	2.838	0.486	0.905	4.778	1.186	23.44	19.88	144.7	1163	1163	0.402	5.134	-1.744	1.076	3.451	0.745	61.8
725S250-54	0.0566	33	0.74	2.52	5.927	2.829	0.597	0.898	5.927	1.495	29.55	27	151.7	2316	2072	0.791	6.319	-1.73	1.069	3.436	0.747	61.7
725S250-54	0.0566	50	0.74	2.52	5.927	2.829	0.597	0.898	5.837	1.388	41.55	35.24	277.3	2316	2072	0.791	6.319	-1.73	1.069	3.436	0.747	50
725S250-68	0.0713	33	0.925	3.15	7.347	2.819	0.73	0.889	7.347	1.942	42.27	39.07	292.7	4347	3044	1.567	7.765	-1.712	1.059	3.415	0.749	58.6
725S250-68	0.0713	50	0.925	3.15	7.347	2.819	0.73	0.889	7.334	1.795	53.75	48.25	370.9	4680	3278	1.567	7.765	-1.712	1.059	3.415	0.749	49.9
725S250-97	0.1017	33	1.296	4.41	10.13	2.796	0.98	0.869	10.13	2.788	62.98	62.87	21.1	8484	4049	4.468	10.516	-1.675	1.04	3.373	0.753	57.2
725S250-97	0.1017	50	1.296	4.41	10.13	2.796	0.98	0.869	10.13	2.666	89.66	83.36	838	10885	5195	4.468	10.516	-1.675	1.04	3.373	0.753	46.7
725S300-54	0.0566	33	0.797	2.71	6.659	2.891	0.931	1.081	6.575	1.561	30.84	27.99	149.4	2316	2072	0.851	9.721	-2.152	1.307	3.762	0.673	72.4
725S300-54	0.0566	50	0.797																			

STRUCTURAL STUD SECTION PROPERTIES

Section	Gross Properties								Effective Properties							Torsional Properties						
	Design Thickness (in)	Fy (Yield) (ksi)	Area (in ²)	Weight (lb/ft)	Ixx (in ⁴)	Rx (in)	Iyy (in ⁴)	Ry (in)	Ixx (in ⁴)	Sxx (in ³)	Ma-L (in-k)	Ma-D (in-k)	KΦc (in-lb)	Vag (lb)	VaNet (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	b	Lu (in)
8005137-54	0.0566	33	0.627	2.13	5.11	2.855	0.112	0.423	5.077	1.179	23.29	21.74	137.1	2091	2091	0.67	1.478	-0.676	0.448	2.964	0.948	32
8005137-54	0.0566	50	0.627	2.13	5.11	2.855	0.112	0.423	4.974	1.083	32.42	28.47	251	2091	2091	0.67	1.478	-0.676	0.448	2.964	0.948	25.9
8005137-68	0.0713	33	0.782	2.66	6.303	2.839	0.134	0.414	6.303	1.541	30.45	29.75	107.5	4221	3367	1.325	1.789	-0.661	0.44	2.944	0.95	31.6
8005137-68	0.0713	50	0.782	2.66	6.303	2.839	0.134	0.414	6.285	1.468	43.96	39.57	482.1	4221	3367	1.325	1.789	-0.661	0.44	2.944	0.95	25.6
8005137-97	0.1017	33	1.093	3.72	8.597	2.805	0.169	0.394	8.597	2.149	53.09	53.09	0.00	8843	4824	3.767	2.349	-0.63	0.423	2.902	0.953	27.6
8005137-97	0.1017	50	1.093	3.72	8.597	2.805	0.169	0.394	8.597	2.149	64.35	63.91	113	10885	5938	3.767	2.349	-0.63	0.423	2.902	0.953	25
8005162-33 ¹	0.0346	33	0.413	1.41	3.582	2.943	0.125	0.55	3.384	0.71	14.03	12.61	33.8	474	474	0.165	1.63	-0.936	0.607	3.137	0.911	40.1
8005162-43	0.0451	33	0.537	1.83	4.633	2.937	0.16	0.546	4.5	1.019	20.14	18.33	75.3	1051	1051	0.364	2.076	-0.926	0.601	3.128	0.912	39.8
8005162-54	0.0566	33	0.67	2.28	5.736	2.927	0.194	0.539	5.702	1.334	26.36	24.98	91.9	2091	2091	0.715	2.539	-0.914	0.594	3.113	0.914	39.6
8005162-54	0.0566	50	0.67	2.28	5.736	2.927	0.194	0.539	5.6	1.229	36.79	32.81	189.8	2091	2091	0.715	2.539	-0.914	0.594	3.113	0.914	32.1
8005162-68	0.0713	33	0.836	2.84	7.089	2.913	0.235	0.53	7.089	1.737	34.32	33.84	55.2	4221	3367	1.416	3.093	-0.899	0.586	3.094	0.916	39.3
8005162-68	0.0713	50	0.836	2.84	7.089	2.913	0.235	0.53	7.07	1.663	49.8	45.11	384.9	4221	3367	1.416	3.093	-0.899	0.586	3.094	0.916	31.9
8005162-97	0.1017	33	1.169	3.98	9.713	2.883	0.305	0.51	9.713	2.428	58.27	58.27	0.00	8843	4824	4.03	4.114	-0.866	0.568	3.053	0.919	35.1
8005162-97	0.1017	50	1.169	3.98	9.713	2.883	0.305	0.51	9.713	2.428	72.7	71.94	143	10885	5938	4.03	4.114	-0.866	0.568	3.053	0.919	31.4
8005162-118	0.1242	50	1.407	4.79	11.504	2.860	0.345	0.496	11.504	2.876	105.23	105.23	0.00	16235	7115	7.234	4.766	-0.842	0.556	3.022	0.922	28.0
8005200-33 ¹	0.0346	33	0.448	1.52	4.096	3.023	0.227	0.712	4.096	0.816	16.12	14.52	31.2	474	474	0.179	2.971	-1.288	0.817	3.363	0.853	50.6
8005200-43	0.0451	33	0.582	1.98	5.302	3.018	0.292	0.708	5.302	1.293	25.54	20.99	186.8	1051	1051	0.395	3.797	-1.277	0.811	3.353	0.855	50.3
8005200-54	0.0566	33	0.726	2.47	6.573	3.009	0.357	0.701	6.573	1.643	35.75	30.37	323	2091	2091	0.775	4.663	-1.265	0.804	3.338	0.856	47.8
8005200-54	0.0566	50	0.726	2.47	6.573	3.009	0.357	0.701	6.573	1.499	44.87	37.37	318.9	2091	2091	0.775	4.663	-1.265	0.804	3.338	0.856	40.7
8005200-68	0.0713	33	0.907	3.09	8.14	2.996	0.435	0.692	8.14	2.035	45.29	41.79	309.3	4221	3367	1.537	5.712	-1.248	0.796	3.319	0.859	47
8005200-68	0.0713	50	0.907	3.09	8.14	2.996	0.435	0.692	8.14	1.964	65.21	54.7	691.9	4221	3367	1.537	5.712	-1.248	0.796	3.319	0.859	38.4
8005200-97	0.1017	33	1.271	4.32	11.203	2.969	0.576	0.673	11.203	2.801	65.12	65.12	0.00	8843	4824	4.381	7.684	-1.214	0.777	3.278	0.863	45.5
8005200-97	0.1017	50	1.271	4.32	11.203	2.969	0.576	0.673	11.203	2.801	96.63	89.76	901.1	10885	5938	4.381	7.684	-1.214	0.777	3.278	0.863	37.2
8005200-118	0.1242	50	1.531	5.21	13.316	2.949	0.665	0.659	13.316	3.329	117.95	117.55	0.00	16235	7115	7.872	8.981	-1.188	0.764	3.247	0.866	36.5
8005250-33 ¹	0.0346	33	0.483	1.64	4.645	3.102	0.389	0.897	4.645	1.313	25.95	22.06	126.1	1051	1051	0.425	6.374	-1.675	1.043	3.632	0.787	61.5
8005250-43	0.0451	33	0.627	2.13	6.015	3.097	0.5	0.893	6.015	1.313	25.95	22.06	126.1	1051	1051	0.425	6.374	-1.675	1.043	3.632	0.787	61.5
8005250-54	0.0566	33	0.783	2.66	7.465	3.088	0.614	0.886	7.465	1.712	33.82	30.06	188.2	2091	2091	0.836	7.85	-1.661	1.036	3.617	0.789	61.8
8005250-54	0.0566	50	0.783	2.66	7.465	3.088	0.614	0.886	7.378	1.525	45.66	39.13	228.2	2091	2091	0.836	7.85	-1.661	1.036	3.617	0.789	49.4
8005250-68	0.0713	33	0.978	3.33	9.261	3.077	0.752	0.877	9.261	2.22	48.33	43.63	358.5	4221	3367	1.658	9.652	-1.644	1.027	3.597	0.791	58.2
8005250-68	0.0713	50	0.978	3.33	9.261	3.077	0.752	0.877	9.24	2.059	61.65	53.75	448.8	4221	3367	1.658	9.652	-1.644	1.027	3.597	0.791	49.6
8005250-97	0.1017	33	1.372	4.67	12.789	3.053	1.009	0.857	12.789	3.191	72.07	70.72	211.4	8843	4824	4.731	13.091	-1.607	1.008	3.555	0.796	56.8
8005250-97	0.1017	50	1.372	4.67	12.789	3.053	1.009	0.857	12.789	3.054	102.7	93.42	1031.6	10885	5938	4.731	13.091	-1.607	1.008	3.555	0.796	46.4
8005250-118	0.1242	50	1.655	5.63	15.242	3.035	1.175	0.843	15.242	3.707	127.51	122.92	0	16235	7115	8.511	15.395	-1.580	0.994	3.524	0.799	45.6
8005300-54	0.0566	33	0.839	2.86	8.358	3.156	0.96	1.069	8.249	1.785	35.28	31.13	183.1	2091	2091	0.896	12.076	-2.073	1.271	3.924	0.721	72.2
8005300-54	0.0566	50	0.839	2.86	8.358	3.156	0.96	1.069	7.862	1.535	45.96	40.22	176.4	2091	2091	0.896	12.076	-2.073	1.271	3.924	0.721	58.6
8005300-68	0.0713	33	1.05	3.57	10.382	3.145	1.179	1.06	10.351	2.321	45.86	42.54	227.2	4221	3367	1.779	14.888	-2.055	1.262	3.903	0.723	72
8005300-68	0.0713	50	1.05	3.57	10.382	3.145	1.179	1.06	10.082	2.145	64.21	55.47	442	4221	3367	1.779	14.888	-2.055	1.262	3.903	0.723	58.4
8005300-97	0.1017	33	1.474	5.02	14.375	3.123	1.595	1.04	14.375	3.443	76.21	73.25	400.5	8843	4824	5.082	20.304	-2.017	1.243	3.86	0.727	67.7
8005300-97	0.1017	50	1.474	5.02	14.375	3.123	1.595	1.04	14.17	3.304	98.92	89.88	958.5	10885	5938	5.082	20.304	-2.017	1.243	3.86	0.727	58.1
8005300-118	0.1242	50	1.779	6.05	17.167	3.106	1.871	1.025	17.022	4.108	138.41	126.69	0	16235	7115	9.149	23.979	-1.989	1.229	3.828	0.730	54.5
8005350-54	0.0566	50	0.938	3.19	9.683	3.212	1.646	1.325	9.191	1.869	55.96	49.74	0	2091	2091	1.002	22.897	-2.766	1.668	4.441	0.612	73.1
8005350-68	0.0713	50	1.174	4.00	12.046	3.203	2.034	1.316	11.909	2.596	77.73	68.05	0	4221	3367	1.990	28.308	-2.748	1.658	4.421	0.614	72.9
8005350-97	0.1017	50	1.652	5.62	16.737	3.183	2.784	1.298	16.737	3.785	113.34	108.67	0	10885	5938	5.696	38.834	-2.710	1.639	4.377	0.617	72.7
8005350-118	0.1242	50	1.997	6.79	20.041	3.168	3.295	1.285	20.041	4.762	158.02	150.37	0	16235	7115	10.267	46.068	-2.682	1.624	4.345	0.619	68.9
9255137-43	0.0451	33	0.56	1.9	5.941	3.258	0.096	0.414	5.612	1.053	20.8	17.93	120.5	905	905	0.379	1.688	-0.633	0.424	3.345	0.964	31.6
9255137-54	0.0566	33	0.698	2.37	7.352	3.246	0.116	0.407	7.175	1.396	27.58	24.98	173.7	1800	1800	0.745	2.055	-0.623	0.418	3.33	0.965	31.3
9255137-54	0.0566	50	0.698	2.37	7.352	3.246	0.116	0.407	6.993	1.274	38.15	32.44	281.6	1800	1800	0.745	2.055	-0.623	0.418	3.33	0.965	25.4
9255137-68	0.0713	33	0.871	2.96	9.084	3.229	0.138	0.398	9.084	1.846	36.47	34.66	204.2	3628	3483	1.476	2.491	-0.609	0.41	3.31	0.966	30.9
9255137-68	0.0713	50	0.871	2.96	9.084	3.229	0.138	0.398	8.905	1.743	52.19	45.61	548.3	3628	3483	1.476	2.491	-0.609	0.41	3.31	0.966	25.1
9255137-97	0.1017	33	1.22	4.15	12.437	3.193	0.174	0.378	12.437	2.689	66.42	65.59	191.2	8843	5830	4.205	3.275	-0.58	0.394	3.267	0.968	26.9
9255137-97	0.1017	50	1.22	4.15	12.437	3.193	0.174	0.378	12.437	2.637	78.95	75.31	698.6	10710	7061	4.205	3.275	-0.58	0.394	3.267	0.968	24.4
9255162-4																						

STRUCTURAL STUD SECTION PROPERTIES

Section	Gross Properties					Effective Properties								Torsional Properties								
	Design Thickness (in)	Fy (Yield) (ksi)	Area (in ²)	Weight (lb/ft)	Ixx (in ⁴)	Rx (in)	Iyy (in ⁴)	Ry (in)	Ixx (in ⁴)	Sxx (in ³)	Ma-L (in-k)	Ma-D (in-k)	KØc (in-lb)	Vag (lb)	VaNet (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	b	Lu (in)
925S200-43	0.0451	33	0.639	2.17	7.519	3.431	0.303	0.689	7.204	1.351	26.7	24.28	58.8	905	905	0.433	5.24	-1.193	0.767	3.697	0.896	49.7
925S200-54	0.0566	33	0.797	2.71	9.329	3.422	0.371	0.682	9.147	1.818	35.92	33.17	108.9	1800	1800	0.851	6.438	-1.18	0.761	3.683	0.897	49.5
925S200-54	0.0566	50	0.797	2.71	9.329	3.422	0.371	0.682	9.009	1.567	46.91	43.27	96.7	1800	1800	0.851	6.438	-1.18	0.761	3.683	0.897	40.1
925S200-68	0.0713	33	0.996	3.39	11.568	3.408	0.451	0.673	11.568	2.379	47	45.16	120	3628	3483	1.688	7.893	-1.164	0.752	3.664	0.899	49.2
925S200-68	0.0713	50	0.996	3.39	11.568	3.408	0.451	0.673	11.398	2.217	66.36	59.62	311.6	3628	3483	1.688	7.893	-1.164	0.752	3.664	0.899	39.9
925S200-97	0.1017	33	1.398	4.76	15.963	3.379	0.598	0.654	15.963	3.451	68.2	68.2	0	8843	5830	4.819	10.637	-1.131	0.735	3.623	0.902	48.7
925S200-97	0.1017	50	1.398	4.76	15.963	3.379	0.598	0.654	15.963	3.397	101.71	96.01	604.2	10710	7061	4.819	10.637	-1.131	0.735	3.623	0.902	39.4
925S250-43	0.0451	33	0.684	2.33	8.474	3.521	0.52	0.872	8.474	1.502	29.69	25.61	93.6	905	905	0.464	8.801	-1.573	0.993	3.953	0.842	61
925S250-54	0.0566	33	0.853	2.9	10.525	3.512	0.64	0.866	10.525	2.096	41.42	35.09	247.8	1800	1800	0.911	10.847	-1.559	0.986	3.939	0.843	60.8
925S250-54	0.0566	50	0.853	2.9	10.525	3.512	0.64	0.866	10.469	1.746	52.27	45.48	170.9	1800	1800	0.911	10.847	-1.559	0.986	3.939	0.843	49.3
925S250-68	0.0713	33	1.067	3.63	13.07	3.499	0.783	0.856	13.07	2.714	59.09	51.17	466.9	3628	3483	1.809	13.349	-1.542	0.977	3.919	0.845	57.7
925S250-68	0.0713	50	1.067	3.63	13.07	3.499	0.783	0.856	13.031	2.529	75.73	62.82	577.3	3628	3483	1.809	13.349	-1.542	0.977	3.919	0.845	49.1
925S250-97	0.1017	33	1.499	5.1	18.09	3.473	1.05	0.837	18.09	3.903	88.17	83.89	508.7	8843	5830	5.17	18.137	-1.507	0.959	3.878	0.849	56.2
925S250-97	0.1017	50	1.499	5.1	18.09	3.473	1.05	0.837	18.09	3.742	125.86	110.18	1352.2	10710	7061	5.17	18.137	-1.507	0.959	3.878	0.849	45.9
925S300-54	0.0566	33	0.91	3.1	11.721	3.589	1.001	1.049	11.573	2.155	42.57	36.33	211	1800	1800	0.972	16.691	-1.956	1.216	4.219	0.785	71.8
925S300-54	0.0566	50	0.91	3.1	11.721	3.589	1.001	1.049	11.135	1.764	52.83	46.81	135.2	1800	1800	0.972	16.691	-1.956	1.216	4.219	0.785	58.3
925S300-68	0.0713	33	1.139	3.87	14.572	3.577	1.231	1.04	14.52	2.833	55.98	49.9	322.6	3628	3483	1.93	20.596	-1.938	1.207	4.199	0.787	71.6
925S300-68	0.0713	50	1.139	3.87	14.572	3.577	1.231	1.04	14.158	2.61	78.14	64.83	522.4	3628	3483	1.93	20.596	-1.938	1.207	4.199	0.787	58
925S300-97	0.1017	33	1.601	5.45	20.218	3.553	1.665	1.02	20.218	4.194	92.84	86.63	642.6	8843	5830	5.52	28.138	-1.901	1.188	4.157	0.791	67.2
925S300-97	0.1017	50	1.601	5.45	20.218	3.553	1.665	1.02	19.928	4.035	120.79	105.96	1218	10710	7061	5.52	28.138	-1.901	1.188	4.157	0.791	57.6
925S137-43	0.0451	33	0.56	1.9	5.941	3.258	0.096	0.414	5.612	1.053	20.8	17.93	120.5	905	905	0.379	1.688	-0.633	0.424	3.345	0.964	31.6
925S137-54	0.0566	33	0.698	2.37	7.352	3.246	0.116	0.407	7.175	1.396	27.58	24.98	173.7	1800	1800	0.745	2.055	-0.623	0.418	3.33	0.965	31.3
925S137-54	0.0566	50	0.698	2.37	7.352	3.246	0.116	0.407	6.993	1.274	38.15	32.44	281.6	1800	1800	0.745	2.055	-0.623	0.418	3.33	0.965	25.4
925S137-68	0.0713	33	0.871	2.96	9.084	3.229	0.138	0.398	9.084	1.846	36.47	34.66	204.2	3628	3483	1.476	2.491	-0.609	0.41	3.31	0.966	30.9
925S137-68	0.0713	50	0.871	2.96	9.084	3.229	0.138	0.398	8.905	1.743	52.19	45.61	548.3	3628	3483	1.476	2.491	-0.609	0.41	3.31	0.966	25.1
925S137-97	0.1017	33	1.22	4.15	12.437	3.193	0.174	0.378	12.437	2.689	66.42	65.59	191.2	8843	5830	4.205	3.275	-0.58	0.394	3.267	0.968	26.9
925S137-97	0.1017	50	1.22	4.15	12.437	3.193	0.174	0.378	12.437	2.637	78.95	75.31	698.6	10710	7061	4.205	3.275	-0.58	0.394	3.267	0.968	24.4
925S162-43	0.0451	33	0.593	2.02	6.616	3.339	0.165	0.528	6.288	1.196	23.64	21.01	82	905	905	0.402	2.877	-0.859	0.564	3.488	0.939	39.2
925S162-54	0.0566	33	0.74	2.52	8.198	3.328	0.201	0.521	8.019	1.576	31.15	28.91	110.6	1800	1800	0.791	3.521	-0.848	0.558	3.473	0.94	38.9
925S162-54	0.0566	50	0.74	2.52	8.198	3.328	0.201	0.521	7.841	1.443	43.22	37.67	200.2	1800	1800	0.791	3.521	-0.848	0.558	3.473	0.94	31.6
925S162-68	0.0713	33	0.925	3.15	10.148	3.313	0.242	0.512	10.148	2.074	40.98	39.62	112.4	3628	3483	1.567	4.293	-0.833	0.55	3.454	0.942	38.6
925S162-68	0.0713	50	0.925	3.15	10.148	3.313	0.242	0.512	9.965	1.97	58.99	52.3	407.3	3628	3483	1.567	4.293	-0.833	0.55	3.454	0.942	31.3
925S162-97	0.1017	33	1.296	4.41	13.947	3.28	0.315	0.493	13.947	3.016	59.59	59.59	0	8843	5830	4.468	5.719	-0.802	0.533	3.413	0.945	38
925S162-97	0.1017	50	1.296	4.41	13.947	3.28	0.315	0.493	13.947	2.962	88.7	85.01	511.8	10710	7061	4.468	5.719	-0.802	0.533	3.413	0.945	30.8
1000S137-33 ¹	0.0346	33	0.457	1.55	5.589	3.498	0.077	0.409					0.00			0.182	1.587	-0.614	0.413	3.575	0.971	
1000S137-43 ¹	0.0451	33	0.593	2.02	7.232	3.491	0.097	0.405	6.727	1.147	22.66	19.09	131.6	836	836	0.402	2.014	-0.605	0.408	3.566	0.971	31.2
1000S137-54	0.0566	33	0.74	2.52	8.956	3.478	0.117	0.398	8.636	1.526	30.15	26.78	197	1661	1661	0.791	2.454	-0.595	0.402	3.551	0.972	30.9
1000S137-54	0.0566	50	0.74	2.52	8.956	3.478	0.117	0.398	8.393	1.389	41.58	34.61	303.5	1661	1661	0.791	2.454	-0.595	0.402	3.551	0.972	25.1
1000S137-68	0.0713	33	0.925	3.15	11.076	3.461	0.14	0.389	11.01	2.029	40.09	37.42	259.3	3345	3345	1.567	2.975	-0.581	0.394	3.531	0.973	30.5
1000S137-68	0.0713	50	0.925	3.15	11.076	3.461	0.14	0.389	10.732	1.908	57.13	48.96	593.2	3345	3345	1.567	2.975	-0.581	0.394	3.531	0.973	24.8
1000S137-97	0.1017	33	1.296	4.41	15.192	3.424	0.177	0.369	15.192	3.038	60.04	60.04	0.00	8843	6434	4.468	3.913	-0.554	0.379	3.488	0.975	29.8
1000S137-97	0.1017	50	1.296	4.41	15.192	3.424	0.177	0.369	15.192	2.917	87.32	81.79	900.4	9864	7177	4.468	3.913	-0.554	0.379	3.488	0.975	24.1
1000S162-33 ¹	0.0346	33	0.483	1.64	6.198	3.583	0.132	0.522								0.193	2.692	-0.833	0.55	3.716	0.95	
1000S162-43 ¹	0.0451	33	0.627	2.13	8.025	3.577	0.168	0.518	7.523	1.302	25.74	22.49	87.8	836	836	0.425	3.43	-0.823	0.545	3.707	0.951	38.8
1000S162-54	0.0566	33	0.783	2.66	9.95	3.565	0.204	0.511	9.627	1.722	34.02	31.11	123.7	1661	1661	0.836	4.198	-0.812	0.538	3.692	0.952	38.6
1000S162-54	0.0566	50	0.783	2.66	9.95	3.565	0.204	0.511	9.391	1.572	47.07	40.37	210.7	1661	1661	0.836	4.198	-0.812	0.538	3.692	0.952	31.3
1000S162-68	0.0713	33	0.978	3.33	12.325	3.55	0.246	0.502	12.256	2.276	44.98	42.91	145.3	3345	3345	1.658	5.121	-0.798	0.531	3.673	0.953	38.2
1000S162-68	0.0713	50	0.978	3.33	12.325	3.55	0.246	0.502	11.978	2.154	64.51	56.35	427.6	3345	3345	1.658	5.121	-0.798	0.531	3.673	0.953	31
1000S162-97	0.1017	33	1.372	4.67	16.967	3.516	0.32	0.483	16.967	3.393	67.06	67.06	0.00	8843	6434	4.731	6.827	-0.768	0.514	3.631	0.955	37.5
1000S162-97	0.1017	50	1.372	4.67	16.967	3.516	0.32	0.483	16.967	3.269	97.89	92.55	625.9	9864	7177	4.731	6.827	-0.768	0.514	3.631	0.955	30.4
1000S162-118	0.1242	50	1.655	5.63	20.169	3.491	0.363	0.468	20.169	4.034	120.77	120.34	0.00	16235	9536	8.511	7.924	-0.746	0.502	3.600	0.957	30.0
1000S200-33 ¹	0.0346	33	0.517	1.76	7.01																	

STRUCTURAL STUD SECTION PROPERTIES

Section	Gross Properties								Effective Properties							Torsional Properties						
	Design Thickness (in)	Fy (Yield) (ksi)	Area (in ²)	Weight (lb/ft)	Ixx (in ⁴)	Rx (in)	Iyy (in ⁴)	Ry (in)	Ixx (in ⁴)	Sxx (in ³)	Ma-L (in-k)	Ma-D (in-k)	KΦc (in-lb)	Vag (lb)	VaNet (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	b	Lu (in)
1000S200-97	0.1017	33	1.474	5.02	19.336	3.622	0.609	0.643	19.336	3.867	76.42	76.42	0.00	8843	6434	5.082	12.679	-1.088	0.711	3.836	0.92	48.2
1000S200-97	0.1017	50	1.474	5.02	19.336	3.622	0.609	0.643	19.336	3.741	112	104.73	648	9864	7177	5.082	12.679	-1.088	0.711	3.836	0.92	39
1000S200-118	0.1242	50	1.779	6.05	23.052	3.599	0.703	0.629	23.052	4.610	138.04	135.75	0.00	16235	9536	9.149	14.848	-1.064	0.699	3.805	0.922	38.7
1000S250-33 ¹	0.0346	33	0.552	1.88	7.872	3.777	0.413	0.865								0.22	8.173	-1.528	0.971	4.165	0.865	
1000S250-43 ¹	0.0451	33	0.717	2.44	10.203	3.771	0.531	0.86	10.203	1.617	31.95	27.67	82.5	836	836	0.486	10.481	-1.518	0.965	4.155	0.867	60.7
1000S250-54	0.0566	33	0.896	3.05	12.677	3.762	0.653	0.854	12.677	2.277	44.99	38.02	228.6	1661	1661	0.957	12.922	-1.505	0.958	4.14	0.868	60.5
1000S250-54	0.0566	50	0.896	3.05	12.677	3.762	0.653	0.854	12.666	1.879	56.26	49.16	151.1	1661	1661	0.957	12.922	-1.505	0.958	4.14	0.868	49.1
1000S250-68	0.0713	33	1.121	3.81	15.751	3.749	0.799	0.844	15.751	3.028	65.93	55.62	533.9	3345	3345	1.899	15.909	-1.488	0.95	4.121	0.87	57.3
1000S250-68	0.0713	50	1.121	3.81	15.751	3.749	0.799	0.844	15.741	2.768	82.89	68.13	563.4	3345	3345	1.899	15.909	-1.488	0.95	4.121	0.87	48.8
1000S250-97	0.1017	33	1.576	5.36	21.827	3.722	1.072	0.825	21.827	4.357	98.41	91.77	684.2	8843	6434	5.433	21.632	-1.454	0.932	4.08	0.873	55.8
1000S250-97	0.1017	50	1.576	5.36	21.827	3.722	1.072	0.825	21.827	4.181	140.63	120.13	1551.1	9864	7177	5.433	21.632	-1.454	0.932	4.08	0.873	45.6
1000S250-118	0.1242	50	1.904	6.48	26.080	3.701	1.249	0.810	26.080	5.082	174.84	159.80	0.00	16235	9536	9.788	25.490	-1.428	0.918	4.049	0.876	44.8
1000S300-54	0.0566	33	0.953	3.24	14.076	3.844	1.024	1.037	13.938	2.312	45.69	39.41	176.4	1661	1661	1.017	19.888	-1.892	1.185	4.408	0.816	71.5
1000S300-54	0.0566	50	0.953	3.24	14.076	3.844	1.024	1.037	13.44	1.902	56.96	50.69	119.5	1661	1661	1.017	19.888	-1.892	1.185	4.408	0.816	58.1
1000S300-68	0.0713	33	1.192	4.06	17.509	3.832	1.258	1.027	17.441	3.158	62.41	54.29	377.6	3345	3345	2.02	24.551	-1.874	1.176	4.388	0.818	71.3
1000S300-68	0.0713	50	1.192	4.06	17.509	3.832	1.258	1.027	17.099	2.802	83.89	70.39	442.2	3345	3345	2.02	24.551	-1.874	1.176	4.388	0.818	57.8
1000S300-97	0.1017	33	1.677	5.71	24.318	3.808	1.702	1.007	24.318	4.671	103.39	94.7	781.7	8843	6434	5.783	33.57	-1.838	1.158	4.346	0.821	66.9
1000S300-97	0.1017	50	1.677	5.71	24.318	3.808	1.702	1.007	23.97	4.499	134.69	115.62	1371.3	9864	7177	5.783	33.57	-1.838	1.158	4.346	0.821	57.4
1000S300-118	0.1242	50	2.028	6.90	29.109	3.789	1.997	0.992	28.861	5.586	188.23	164.18	0.00	16235	9536	10.427	39.725	-1.811	1.144	4.315	0.824	53.8
1000S350-54	0.0566	50	1.052	3.58	16.220	3.927	1.768	1.297	15.577	2.328	69.69	62.97	0.00	1661	1661	1.123	36.575	-2.546	1.566	4.857	0.725	72.2
1000S350-68	0.0713	50	1.317	4.48	20.204	3.917	2.185	1.288	20.026	3.417	102.32	86.60	0.00	3345	3345	2.232	45.277	-2.529	1.557	4.837	0.727	72.0
1000S350-97	0.1017	50	1.855	6.31	28.148	3.895	2.992	1.270	28.148	5.118	153.25	139.74	0.00	9864	7177	6.397	62.280	-2.492	1.538	4.795	0.730	71.6
1000S350-118	0.1242	50	2.245	7.64	33.772	3.878	3.543	1.256	33.772	6.427	213.25	194.46	0.00	16235	9536	11.544	74.030	-2.465	1.524	4.764	0.732	67.8
1150S137-43 ¹	0.0451	33	0.661	2.25	10.325	3.952	0.1	0.388	9.301	1.334	26.36	21.19	155.6	725	725	0.448	2.764	-0.556	0.379	4.01	0.981	30.5
1150S137-54	0.0566	33	0.825	2.81	12.8	3.938	0.12	0.381	12.025	1.786	35.3	30.04	245.3	1439	1439	0.881	3.369	-0.546	0.373	3.994	0.981	30.2
1150S137-54	0.0566	50	0.825	2.81	12.8	3.938	0.12	0.381	11.627	1.617	48.43	38.54	352	1439	1439	0.881	3.369	-0.546	0.373	3.994	0.981	24.5
1150S137-68	0.0713	33	1.032	3.51	15.854	3.92	0.143	0.372	15.463	2.396	47.34	42.51	365.8	2895	2895	1.748	4.085	-0.534	0.366	3.974	0.982	29.8
1150S137-68	0.0713	50	1.032	3.51	15.854	3.92	0.143	0.372	14.977	2.238	67.01	55.1	689.8	2895	2895	1.748	4.085	-0.534	0.366	3.974	0.982	24.2
1150S137-97	0.1017	33	1.449	4.93	21.817	3.881	0.181	0.353	21.817	3.687	72.87	70.77	365.9	8518	7361	4.994	5.379	-0.508	0.352	3.93	0.983	28.9
1150S137-97	0.1017	50	1.449	4.93	21.817	3.881	0.181	0.353	21.738	3.478	104.13	93.92	1261	8518	7361	4.994	5.379	-0.508	0.352	3.93	0.983	23.5
1150S162-43 ¹	0.0451	33	0.695	2.36	11.383	4.047	0.173	0.499	10.366	1.514	29.92	25.15	102.1	725	725	0.471	4.703	-0.761	0.509	4.148	0.966	38.1
1150S162-54	0.0566	33	0.868	2.95	14.126	4.035	0.21	0.492	13.35	2.012	39.76	35.14	153.2	1439	1439	0.927	5.759	-0.75	0.503	4.134	0.967	37.8
1150S162-54	0.0566	50	0.868	2.95	14.126	4.035	0.21	0.492	12.964	1.829	54.75	45.26	237.9	1439	1439	0.927	5.759	-0.75	0.503	4.134	0.967	30.7
1150S162-68	0.0713	33	1.085	3.69	17.521	4.018	0.253	0.483	17.124	2.681	52.99	49.05	211.6	2895	2895	1.839	7.028	-0.737	0.496	4.114	0.968	37.4
1150S162-68	0.0713	50	1.085	3.69	17.521	4.018	0.253	0.483	16.642	2.523	75.52	63.83	479.7	2895	2895	1.839	7.028	-0.737	0.496	4.114	0.968	30.4
1150S162-97	0.1017	33	1.525	5.19	24.186	3.983	0.329	0.464	24.186	4.098	80.97	80.16	101.5	8518	7361	5.257	9.379	-0.709	0.48	4.072	0.97	36.7
1150S162-97	0.1017	50	1.525	5.19	24.186	3.983	0.329	0.464	24.098	3.885	116.33	106.81	843.5	8518	7361	5.257	9.379	-0.709	0.48	4.072	0.97	29.7
1150S200-43 ¹	0.0451	33	0.74	2.52	12.796	4.158	0.319	0.656	11.815	1.708	33.75	29.59	66.8	725	725	0.502	8.534	-1.067	0.7	4.343	0.94	48.6
1150S200-54	0.0566	33	0.924	3.14	15.896	4.147	0.39	0.65	15.121	2.315	45.75	40.9	123.6	1439	1439	0.987	10.494	-1.056	0.694	4.328	0.941	48.3
1150S200-54	0.0566	50	0.924	3.14	15.896	4.147	0.39	0.65	14.823	1.981	59.31	52.82	115.6	1439	1439	0.987	10.494	-1.056	0.694	4.328	0.941	39.2
1150S200-68	0.0713	33	1.156	3.94	19.747	4.132	0.475	0.641	19.342	3.063	60.53	56.49	165.4	2895	2895	1.96	12.878	-1.041	0.686	4.309	0.942	48
1150S200-68	0.0713	50	1.156	3.94	19.747	4.132	0.475	0.641	18.904	2.827	84.65	73.68	330.5	2895	2895	1.96	12.878	-1.041	0.686	4.309	0.942	38.9
1150S200-97	0.1017	33	1.627	5.53	27.348	4.1	0.629	0.622	27.348	4.645	91.79	91.1	64.7	8518	7361	5.608	17.39	-1.01	0.669	4.268	0.944	47.3
1150S200-97	0.1017	50	1.627	5.53	27.348	4.1	0.629	0.622	27.25	4.43	132.63	121.51	737.5	8518	7361	5.608	17.39	-1.01	0.669	4.268	0.944	38.3
1150S250-43 ¹	0.0451	33	0.785	2.67	14.275	4.264	0.55	0.837	13.394	1.766	34.9	31.58	45.5	725	725	0.532	14.361	-1.419	0.915	4.571	0.904	60
1150S250-54	0.0566	33	0.981	3.34	17.749	4.254	0.676	0.83	17.089	2.371	46.85	43.64	67.6	1439	1439	1.047	17.713	-1.407	0.908	4.557	0.905	59.8
1150S250-54	0.0566	50	0.981	3.34	17.749	4.254	0.676	0.83	16.736	2.054	61.5	56.18	81.8	1439	1439	1.047	17.713	-1.407	0.908	4.557	0.905	48.5
1150S250-68	0.0713	33	1.228	4.18	22.075	4.24	0.827	0.821	21.712	3.334	65.87	60.33	198.7	2895	2895	2.081	21.822	-1.391	0.9	4.537	0.906	59.5
1150S250-68	0.0713	50	1.228	4.18	22.075	4.24	0.827	0.821	21.38	2.871	85.97	78.34	188.2	2895	2895	2.081	21.822	-1.391	0.9	4.537	0.906	48.3
1150S250-97	0.1017	33	1.728	5.88	30.651	4.211	1.11	0.801	30.651	5.217	103.1	97.82	440.4	8518	7361	5.959	29.711	-1.358	0.882	4.497	0.909	58.9
1150S250-97	0.1017	50	1.728	5.88	30.651	4.211	1.11	0.801	30.602	4.794	143.54	12										

STRUCTURAL STUD SECTION PROPERTIES

Section	Gross Properties								Effective Properties							Torsional Properties						
	Design Thickness (in)	Fy (Yield) (ksi)	Area (in ²)	Weight (lb/ft)	Ixx (in ⁴)	Rx (in)	Iyy (in ⁴)	Ry (in)	Ixx (in ⁴)	Sxx (in ³)	Ma-L (in-k)	Ma-D (in-k)	KΦc (in-lb/)	Vag (lb)	VaNet (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	b	Lu (in)
12005137-33 ¹	0.0346	33	0.526	1.79	8.893	4.112	0.079	0.387							0.21	2.398	-0.549	0.375	4.167	0.983		
12005137-43 ¹	0.0451	33	0.684	2.33	11.517	4.104	0.1	0.383							0.464	3.043	-0.542	0.37	4.158	0.983		30
12005137-54 ¹	0.0566	33	0.853	2.9	14.283	4.091	0.121	0.376	13.296	1.873	37.01	31.04	261.6	1377	1377	0.911	3.709	-0.532	0.365	4.142	0.984	24.3
12005137-54 ¹	0.0566	50	0.853	2.9	14.283	4.091	0.121	0.376	12.836	1.694	50.71	39.74	368.8	1377	1377	0.911	3.709	-0.532	0.365	4.142	0.984	24.3
12005137-68	0.0713	33	1.067	3.63	17.698	4.072	0.144	0.367	17.142	2.518	49.76	44.09	400.1	2771	2771	1.809	4.499	-0.52	0.358	4.121	0.984	29.5
12005137-68	0.0713	50	1.067	3.63	17.698	4.072	0.144	0.367	16.572	2.348	70.3	56.99	722.8	2771	2771	1.809	4.499	-0.52	0.358	4.121	0.984	24
12005137-97	0.1017	33	1.499	5.1	24.379	4.032	0.182	0.348	24.379	3.899	77.04	73.94	493.8	8147	7411	5.17	5.925	-0.494	0.343	4.077	0.985	28.7
12005137-97	0.1017	50	1.499	5.1	24.379	4.032	0.182	0.348	24.161	3.666	109.75	97.73	1369.7	8147	7411	5.17	5.925	-0.494	0.343	4.077	0.985	23.2
12005162-33 ¹	0.0346	33	0.552	1.88	9.78	4.21	0.136	0.497							0.22	4.061	-0.751	0.504	4.305	0.97		
12005162-43 ¹	0.0451	33	0.717	2.44	12.672	4.203	0.174	0.493							0.486	5.177	-0.742	0.499	4.296	0.97		
12005162-54 ¹	0.0566	33	0.896	3.05	15.73	4.19	0.212	0.486	14.743	2.109	41.68	36.38	163.7	1377	1377	0.957	6.34	-0.732	0.493	4.281	0.971	37.5
12005162-54 ¹	0.0566	50	0.896	3.05	15.73	4.19	0.212	0.486	14.298	1.914	57.31	46.76	248.3	1377	1377	0.957	6.34	-0.732	0.493	4.281	0.971	30.5
12005162-68	0.0713	33	1.121	3.81	19.518	4.173	0.255	0.477	18.955	2.817	55.66	50.96	233.9	2771	2771	1.899	7.739	-0.719	0.485	4.261	0.972	37.2
12005162-68	0.0713	50	1.121	3.81	19.518	4.173	0.255	0.477	18.39	2.645	79.19	66.14	499.5	2771	2771	1.899	7.739	-0.719	0.485	4.261	0.972	30.2
12005162-97	0.1017	33	1.576	5.36	26.966	4.137	0.331	0.459	26.966	4.327	85.51	83.86	188.7	8147	7411	5.433	10.331	-0.691	0.47	4.219	0.973	36.4
12005162-97	0.1017	50	1.576	5.36	26.966	4.137	0.331	0.459	26.735	4.091	122.49	111.3	915	8147	7411	5.433	10.331	-0.691	0.47	4.219	0.973	29.5
12005162-118	0.1242	50	1.904	6.48	32.145	4.109	0.376	0.444	32.145	5.168	154.74	147.23	0.00	14986	11037	9.788	12.002	-0.670	0.459	4.187	0.974	29.0
12005200-33 ¹	0.0346	33	0.586	2	10.965	4.324	0.251	0.654							0.234	7.338	-1.052	0.693	4.498	0.945		
12005200-43 ¹	0.0451	33	0.763	2.59	14.214	4.317	0.322	0.649							0.517	9.391	-1.043	0.687	4.489	0.946		
12005200-54 ¹	0.0566	33	0.953	3.24	17.662	4.306	0.393	0.643	16.678	2.425	47.93	42.46	128.6	1377	1377	1.017	11.55	-1.032	0.681	4.474	0.947	48
12005200-54 ¹	0.0566	50	0.953	3.24	17.662	4.306	0.393	0.643	16.334	2.073	62.07	54.74	121.4	1377	1377	1.017	11.55	-1.032	0.681	4.474	0.947	39
12005200-68	0.0713	33	1.192	4.06	21.947	4.291	0.479	0.634	21.376	3.215	63.54	58.83	177.1	2771	2771	2.02	14.176	-1.017	0.673	4.455	0.948	47.7
12005200-68	0.0713	50	1.192	4.06	21.947	4.291	0.479	0.634	20.864	2.963	88.71	76.55	339.1	2771	2771	2.02	14.176	-1.017	0.673	4.455	0.948	38.7
12005200-97	0.1017	33	1.677	5.71	30.417	4.258	0.635	0.615	30.417	4.899	96.81	95.43	116.8	8147	7411	5.783	19.15	-0.987	0.656	4.414	0.95	47
12005200-97	0.1017	50	1.677	5.71	30.417	4.258	0.635	0.615	30.175	4.66	139.51	126.87	770.1	8147	7411	5.783	19.15	-0.987	0.656	4.414	0.95	38.1
12005200-118	0.1242	50	2.028	6.90	36.347	4.234	0.732	0.601	36.347	5.865	175.59	166.80	0.00	14986	11037	10.427	22.451	-0.964	0.644	4.384	0.952	37.7
12005250-33 ¹	0.0346	33	0.621	2.11	12.203	4.433	0.432	0.834							0.248	12.322	-1.4	0.905	4.723	0.912		
12005250-43 ¹	0.0451	33	0.808	2.75	15.825	4.426	0.556	0.829							0.548	15.812	-1.39	0.899	4.713	0.913		
12005250-54 ¹	0.0566	33	1.009	3.43	19.681	4.416	0.683	0.823	18.832	2.482	49.05	45.43	70.3	1377	1377	1.078	19.505	-1.378	0.892	4.699	0.914	59.6
12005250-54 ¹	0.0566	50	1.009	3.43	19.681	4.416	0.683	0.823	18.433	2.149	64.34	58.39	84.6	1377	1377	1.078	19.505	-1.378	0.892	4.699	0.914	48.3
12005250-68	0.0713	33	1.263	4.3	24.484	4.402	0.836	0.813	23.963	3.496	69.08	62.95	201.9	2771	2771	2.141	24.034	-1.362	0.884	4.679	0.915	59.2
12005250-68	0.0713	50	1.263	4.3	24.484	4.402	0.836	0.813	23.575	3.007	90.04	81.59	192.6	2771	2771	2.141	24.034	-1.362	0.884	4.679	0.915	48.1
12005250-97	0.1017	33	1.779	6.05	34.016	4.373	1.121	0.794	34.016	5.496	108.6	102.52	461.6	8147	7411	6.134	32.734	-1.329	0.867	4.639	0.918	58.6
12005250-97	0.1017	50	1.779	6.05	34.016	4.373	1.121	0.794	33.835	5.037	150.82	135.37	801.7	8147	7411	6.134	32.734	-1.329	0.867	4.639	0.918	47.5
12005250-118	0.1242	50	2.152	7.32	40.726	4.350	1.307	0.779	40.726	6.541	195.84	178.57	0.00	14986	11037	11.065	38.619	-1.305	0.854	4.608	0.920	47.1
12005300-54 ¹	0.0566	33	1.066	3.63	21.699	4.512	1.074	1.004	21.648	2.736	54.06	47.36	125.6	1377	1377	1.138	30.051	-1.743	1.111	4.94	0.876	70.8
12005300-54 ¹	0.0566	50	1.066	3.63	21.699	4.512	1.074	1.004	21.043	2.272	68.04	60.65	98	1377	1377	1.138	30.051	-1.743	1.111	4.94	0.876	57.4
12005300-68	0.0713	33	1.335	4.54	27.02	4.499	1.32	0.994	26.918	4.064	80.3	65.72	500.9	2771	2771	2.262	37.126	-1.726	1.103	4.921	0.877	70.5
12005300-68	0.0713	50	1.335	4.54	27.02	4.499	1.32	0.994	26.51	3.317	99.32	84.79	320	2771	2771	2.262	37.126	-1.726	1.103	4.921	0.877	57.2
12005300-97	0.1017	33	1.881	6.4	37.616	4.472	1.786	0.974	37.616	6.035	133.59	116.06	1156.6	8147	7411	6.484	50.853	-1.691	1.085	4.88	0.88	66
12005300-97	0.1017	50	1.881	6.4	37.616	4.472	1.786	0.974	37.085	5.831	174.57	141.05	1798.3	8147	7411	6.484	50.853	-1.691	1.085	4.88	0.88	56.7
12005300-118	0.1242	50	2.276	7.75	45.106	4.452	2.095	0.959	44.727	7.232	243.67	201.68	0.00	14986	11037	11.704	60.251	-1.666	1.071	4.849	0.882	53.0
12005350-54 ¹	0.0566	50	1.165	3.96	24.860	4.620	1.866	1.266	24.087	2.787	83.46	75.91	0.00	1377	1377	1.244	54.279	-2.363	1.478	5.341	0.804	71.4
12005350-68	0.0713	50	1.460	4.97	30.996	4.608	2.306	1.257	30.916	4.061	121.59	104.89	0.00	2771	2771	2.473	67.251	-2.346	1.469	5.322	0.806	71.2
12005350-97	0.1017	50	2.059	7.01	43.269	4.584	3.159	1.239	43.269	6.590	197.31	170.84	0.00	8147	7411	7.098	92.672	-2.310	1.450	5.281	0.809	70.8
12005350-118	0.1242	50	2.494	8.48	51.992	4.566	3.741	1.225	51.992	8.660	274.07	238.96	0.00	14986	11037	12.821	110.302	-2.284	1.436	5.250	0.811	66.9
13505137-54 ¹	0.0566	33	0.938	3.19	19.386	4.545	0.123	0.362	17.546	2.133	42.14	33.82	309.7	1221	1221	1.002	4.839	-0.493	0.341	4.586	0.988	29.3
13505137-54 ¹	0.0566	50	0.938	3.19	19.386	4.545	0.123	0.362	16.866	1.922	57.54	43.07	419.8	1221	1221	1.002	4.839	-0.493	0.341	4.586	0.988	23.8
13505137-68	0.0713	33	1.174	4	24.05	4.526	0.147	0.353	22.783	2.885	57.02	48.52	498	2455	2455	1.99	5.87	-0.482	0.334	4.565	0.989	28.8
13505137-68	0.0713	50	1.174	4	24.05	4.526	0.147	0.353	21.907	2.677	80.15	62.28	820.1	2455	2455	1.99	5.87	-0.482	0.334	4.565	0.989	23.4
13505137-97	0.1017	33	1.652	5.62	33.215	4.484	0.185	0.335	33.215	4.535	89.62	82.98	828.3	7206	7206	5.696	7.735	-0.458	0.321	4.52	0.99	27.9
13505137-97	0.1017	50	1.652	5.62	33.215	4.484	0.															

STRUCTURAL STUD SECTION PROPERTIES

Section	Gross Properties								Effective Properties							Torsional Properties						
	Design Thickness (in)	Fy (Yield) (ksi)	Area (in ²)	Weight (lb/ft)	Ixx (in ⁴)	Rx (in)	Iyy (in ⁴)	Ry (in)	Ixx (in ⁴)	Sxx (in ³)	Ma-L (in-k)	Ma-D (in-k)	KΦc (in-lb)	Vag (lb)	VaNet (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	m (in)	Ro (in)	b	Lu (in)
1350S137-68	0.0713	33	1.174	4	24.05	4.526	0.147	0.353	22.783	2.885	57.02	48.52	498	2455	2455	1.99	5.87	-0.482	0.334	4.565	0.989	28.8
1350S137-68	0.0713	50	1.174	4	24.05	4.526	0.147	0.353	21.907	2.677	80.15	62.28	820.1	2455	2455	1.99	5.87	-0.482	0.334	4.565	0.989	23.4
1350S137-97	0.1017	33	1.652	5.62	33.215	4.484	0.185	0.335	33.215	4.535	89.62	82.98	828.3	7206	7206	5.696	7.735	-0.458	0.321	4.52	0.99	27.9
1350S137-97	0.1017	50	1.652	5.62	33.215	4.484	0.185	0.335	32.333	4.229	126.61	108.55	1660.4	7206	7206	5.696	7.735	-0.458	0.321	4.52	0.99	22.7
1350S162-54 ¹	0.0566	33	0.981	3.34	21.228	4.652	0.216	0.469	19.394	2.399	47.41	39.8	196.2	1221	1221	1.047	8.273	-0.682	0.463	4.725	0.979	36.8
1350S162-54 ¹	0.0566	50	0.981	3.34	21.228	4.652	0.216	0.469	18.737	2.17	64.98	50.87	281.7	1221	1221	1.047	8.273	-0.682	0.463	4.725	0.979	29.9
1350S162-68	0.0713	33	1.228	4.18	26.368	4.634	0.261	0.461	25.092	3.222	63.66	56.3	301	2455	2455	2.081	10.101	-0.669	0.456	4.705	0.98	36.4
1350S162-68	0.0713	50	1.228	4.18	26.368	4.634	0.261	0.461	24.228	3.012	90.19	72.57	563.6	2455	2455	2.081	10.101	-0.669	0.456	4.705	0.98	29.6
1350S162-97	0.1017	33	1.728	5.88	36.51	4.596	0.338	0.442	36.51	5.018	99.15	94.38	431.4	7206	7206	5.959	13.494	-0.643	0.441	4.662	0.981	35.6
1350S162-97	0.1017	50	1.728	5.88	36.51	4.596	0.338	0.442	35.611	4.709	140.98	123.98	1127.1	7206	7206	5.959	13.494	-0.643	0.441	4.662	0.981	28.9
1350S200-54 ¹	0.0566	33	1.037	3.53	23.688	4.778	0.403	0.623	21.864	2.756	54.46	46.83	146.3	1221	1221	1.108	15.066	-0.966	0.644	4.915	0.961	47.3
1350S200-54 ¹	0.0566	50	1.037	3.53	23.688	4.778	0.403	0.623	21.358	2.348	70.31	60.04	141.4	1221	1221	1.108	15.066	-0.966	0.644	4.915	0.961	38.4
1350S200-68	0.0713	33	1.299	4.42	29.461	4.762	0.491	0.615	28.18	3.672	72.55	65.43	215.1	2455	2455	2.201	18.498	-0.952	0.636	4.895	0.962	46.9
1350S200-68	0.0713	50	1.299	4.42	29.461	4.762	0.491	0.615	27.397	3.369	100.88	84.6	371.7	2455	2455	2.201	18.498	-0.952	0.636	4.895	0.962	38.1
1350S200-97	0.1017	33	1.83	6.23	40.907	4.728	0.65	0.596	40.905	5.662	111.89	107.9	263.9	7206	7206	6.309	25.008	-0.923	0.62	4.854	0.964	46.2
1350S200-97	0.1017	50	1.83	6.23	40.907	4.728	0.65	0.596	39.991	5.35	160.18	142.15	877	7206	7206	6.309	25.008	-0.923	0.62	4.854	0.964	37.5
1350S250-54 ¹	0.0566	33	1.094	3.72	26.245	4.898	0.701	0.801	24.632	2.816	55.64	50.5	80.8	1221	1221	1.168	25.48	-1.296	0.849	5.129	0.936	58.8
1350S250-54 ¹	0.0566	50	1.094	3.72	26.245	4.898	0.701	0.801	24.075	2.432	72.82	64.64	95.4	1221	1221	1.168	25.48	-1.296	0.849	5.129	0.936	47.8
1350S250-68	0.0713	33	1.37	4.66	32.675	4.883	0.858	0.791	31.477	3.983	78.7	70.45	216.7	2455	2455	2.322	31.409	-1.281	0.841	5.11	0.937	58.5
1350S250-68	0.0713	50	1.37	4.66	32.675	4.883	0.858	0.791	30.883	3.415	102.23	90.87	210.6	2455	2455	2.322	31.409	-1.281	0.841	5.11	0.937	47.5
1350S250-97	0.1017	33	1.932	6.57	45.471	4.852	1.151	0.772	45.457	6.332	125.12	116.23	525.4	7206	7206	6.66	42.816	-1.25	0.824	5.069	0.939	57.8
1350S250-97	0.1017	50	1.932	6.57	45.471	4.852	1.151	0.772	44.659	5.767	172.67	152.47	834.7	7206	7206	6.66	42.816	-1.25	0.824	5.069	0.939	46.9
1350S300-54 ¹	0.0566	33	1.151	3.92	28.803	5.003	1.106	0.98	27.24	2.905	57.41	52.96	62.2	1221	1221	1.229	39.293	-1.647	1.062	5.358	0.906	70.1
1350S300-54 ¹	0.0566	50	1.151	3.92	28.803	5.003	1.106	0.98	25.104	2.484	74.37	67.61	70.4	1221	1221	1.229	39.293	-1.647	1.062	5.358	0.906	57
1350S300-68	0.0713	33	1.442	4.91	35.89	4.989	1.358	0.971	34.869	4.072	80.46	73.89	148.7	2455	2455	2.443	48.565	-1.631	1.053	5.338	0.907	69.8
1350S300-68	0.0713	50	1.442	4.91	35.89	4.989	1.358	0.971	33.417	3.516	105.27	94.99	169.3	2455	2455	2.443	48.565	-1.631	1.053	5.338	0.907	56.7
1350S300-97	0.1017	33	2.033	6.92	50.035	4.961	1.838	0.951	50.035	6.743	133.25	122.23	568.7	7206	7206	7.01	66.58	-1.597	1.036	5.297	0.909	69.2
1350S300-97	0.1017	50	2.033	6.92	50.035	4.961	1.838	0.951	48.895	6.117	183.16	159.48	872.5	7206	7206	7.01	66.58	-1.597	1.036	5.297	0.909	56.1
1400S162-54 ¹	0.0566	33	1.009	3.43	23.302	4.805	0.218	0.464	21.103	2.496	49.32	40.86	207.3	1177	1177	1.078	8.98	-0.667	0.454	4.873	0.981	36.6
1400S162-54 ¹	0.0566	50	1.009	3.43	23.302	4.805	0.218	0.464	20.365	2.256	67.54	52.13	293.4	1177	1177	1.078	8.98	-0.667	0.454	4.873	0.981	29.7
1400S162-68	0.0713	33	1.263	4.3	28.952	4.787	0.262	0.456	27.357	3.357	66.33	57.96	323.3	2365	2365	2.141	10.966	-0.654	0.447	4.853	0.982	36.2
1400S162-68	0.0713	50	1.263	4.3	28.952	4.787	0.262	0.456	26.375	3.135	93.85	74.56	586	2365	2365	2.141	10.966	-0.654	0.447	4.853	0.982	29.4
1400S162-97	0.1017	33	1.779	6.05	40.115	4.748	0.34	0.437	39.965	5.248	103.71	97.7	507.2	6939	6939	6.134	14.651	-0.628	0.433	4.81	0.983	35.3
1400S162-97	0.1017	50	1.779	6.05	40.115	4.748	0.34	0.437	38.897	4.915	147.14	127.96	1196.5	6939	6939	6.134	14.651	-0.628	0.433	4.81	0.983	28.7
1400S162-118	0.1242	50	2.152	7.32	47.928	4.719	0.385	0.423	47.772	6.282	188.07	171.63	0.0	12745	11287	11.065	17.032	-0.609	0.422	4.777	0.984	28.1
1400S200-54 ¹	0.0566	33	1.066	3.63	25.951	4.935	0.406	0.617	23.767	2.866	56.63	48.18	152.9	1177	1177	1.138	16.355	-0.946	0.633	5.062	0.965	47
1400S200-54 ¹	0.0566	50	1.066	3.63	25.951	4.935	0.406	0.617	23.199	2.44	73.05	61.67	148.6	1177	1177	1.138	16.355	-0.946	0.633	5.062	0.965	38.2
1400S200-68	0.0713	33	1.335	4.54	32.284	4.918	0.494	0.608	30.684	3.824	75.56	67.5	228.5	2365	2365	2.262	20.083	-0.932	0.625	5.043	0.966	46.7
1400S200-68	0.0713	50	1.335	4.54	32.284	4.918	0.494	0.608	29.797	3.505	104.93	87.1	384.3	2365	2365	2.262	20.083	-0.932	0.625	5.043	0.966	37.9
1400S200-97	0.1017	33	1.881	6.4	44.853	4.883	0.655	0.59	44.683	5.917	116.93	111.87	311.1	6939	6939	6.484	27.156	-0.904	0.609	5.001	0.967	45.9
1400S200-97	0.1017	50	1.881	6.4	44.853	4.883	0.655	0.59	43.616	5.58	167.07	146.98	915.4	6939	6939	6.484	27.156	-0.904	0.609	5.001	0.967	37.3
1400S200-118	0.1242	50	2.276	7.75	53.698	4.857	0.755	0.576	53.520	7.096	212.47	195.62	0.0	12745	11287	11.704	31.861	-0.883	0.598	4.970	0.968	36.8
1400S250-54 ¹	0.0566	33	1.122	3.82	28.702	5.057	0.707	0.794	26.758	2.927	57.83	52.08	84.9	1177	1177	1.198	27.675	-1.272	0.835	5.275	0.942	58.6
1400S250-54 ¹	0.0566	50	1.122	3.82	28.702	5.057	0.707	0.794	26.141	2.527	75.65	66.58	99.7	1177	1177	1.198	27.675	-1.272	0.835	5.275	0.942	47.6
1400S250-68	0.0713	33	1.406	4.78	35.743	5.042	0.865	0.784	34.239	4.145	81.9	72.82	223.1	2365	2365	2.383	34.118	-1.257	0.827	5.255	0.943	58.3
1400S250-68	0.0713	50	1.406	4.78	35.743	5.042	0.865	0.784	33.565	3.55	106.29	93.79	218	2365	2365	2.383	34.118	-1.257	0.827	5.255	0.943	47.3
1600S200-68 ¹	0.0713	50	1.477	5.03	45.291	5.537	0.506	0.585	40.523	4.045	121.11	96.27	0.0	2062	2062	2.503	27.155	-0.862	0.584	5.634	0.977	37.1
1600S200-97	0.1017	50	2.084	7.09	63.050	5.500	0.670	0.567	59.933	6.500	194.61	164.99	0.0	6043	6043	7.186	36.744	-0.835	0.569	5.592	0.978	36.4
1600S200-118	0.1242	50	2.525	8.59	75.601	5.472	0.773	0.553	74.084	8.331	249.44	221.86	0.0	11088	11088	12.981	43.132	-0.815	0.558	5.560	0.979	35.9
1600S250-68 ¹	0.0713	50	1.549	5.29	49.814	5.672	0.889	0.758	45.550	4.092	122.51	104.63	0.0	2062	2062	2.624	46.230	-1.167	0.778			