

Structural studs & track 3-5/8"

Member	Design Thickness (in)	Gross Properties							33 ksi Effective Properties				50 ksi Effective Properties				Torsional Properties						
		Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	S _x (in ³)	Ma (in-k)	Va (lb)	I _x (in ⁴)	S _x (in ³)	Ma (in-k)	Va (lb)	J _x 1000 (in ⁴)	C _w (in ⁶)	X _o (in)	R _o (in)	Beta		
3-5/8" Studs	362S137-33	0.0346	0.236	0.80	0.479	0.264	1.424	0.059	0.501	0.479	0.232	4.59	1024	0.479	0.198	5.92	1083	0.094	0.165	-1.003	1.813	0.694	
	362S137-43	0.0451	0.306	1.04	0.616	0.340	1.419	0.075	0.497	0.616	0.320	6.32	1739	0.616	0.292	8.73	2141	0.207	0.208	-0.991	1.801	0.697	
	362S137-54	0.0566	0.379	1.29	0.756	0.417	1.411	0.091	0.490	0.756	0.402	7.94	2341	0.756	0.381	11.42	3372	0.405	0.251	-0.978	1.785	0.700	
	362S137-68	0.0713	0.470	1.60	0.922	0.509	1.401	0.109	0.480	0.922	0.498	9.84	2884	0.922	0.493	14.77	4370	0.797	0.302	-0.959	1.764	0.704	
	362S137-97	0.1017	0.648	2.20	1.229	0.678	1.377	0.137	0.460	1.229	0.662	16.36	3922	1.229	0.662	24.10	5943	2.233	0.390	-0.922	1.720	0.713	
	362S162-33	0.0346	0.262	0.89	0.551	0.304	1.450	0.099	0.616	0.551	0.268	5.29	1024	0.551	0.236	7.05	1083	0.105	0.297	-1.308	2.048	0.592	
	362S162-43	0.0451	0.340	1.16	0.710	0.392	1.445	0.127	0.611	0.710	0.372	7.34	1739	0.710	0.321	9.62	2141	0.230	0.376	-1.297	2.036	0.594	
	362S162-54	0.0566	0.422	1.44	0.873	0.481	1.438	0.154	0.604	0.873	0.466	9.22	2341	0.873	0.444	13.28	3372	0.451	0.457	-1.283	2.020	0.597	
	362S162-68	0.0713	0.524	1.78	1.069	0.590	1.429	0.186	0.596	1.069	0.579	11.43	2884	1.069	0.574	17.18	4370	0.887	0.552	-1.264	1.998	0.600	
	362S162-97	0.1017	0.724	2.46	1.435	0.792	1.408	0.241	0.577	1.435	0.776	18.62	3922	1.435	0.776	27.52	5943	2.496	0.723	-1.226	1.954	0.606	
	362S200-33	0.0346	0.297	1.01	0.648	0.358	1.478	0.177	0.772	0.647	0.294	5.81	1024	0.628	0.261	7.82	1083	0.118	0.577	-1.741	2.411	0.478	
	362S200-43	0.0451	0.385	1.31	0.836	0.461	1.474	0.227	0.767	0.836	0.427	8.43	1739	0.836	0.377	11.29	2141	0.261	0.734	-1.729	2.398	0.480	
	362S200-54	0.0566	0.479	1.63	1.030	0.568	1.467	0.277	0.761	1.030	0.553	10.93	2341	1.030	0.490	14.66	3372	0.511	0.896	-1.715	2.382	0.482	
	362S200-68	0.0713	0.595	2.02	1.265	0.698	1.458	0.337	0.753	1.265	0.687	15.29	2884	1.265	0.666	19.95	4370	1.008	1.089	-1.696	2.360	0.484	
	362S200-97	0.1017	0.826	2.81	1.711	0.944	1.440	0.446	0.735	1.711	0.928	21.59	3922	1.711	0.928	32.03	5943	2.847	1.441	-1.658	2.315	0.487	
	362S250-43	0.0451	0.430	1.46	0.980	0.541	1.510	0.385	0.946	0.980	0.449	8.88	1739	0.958	0.390	11.69	2141	0.292	1.230	-2.199	2.830	0.396	
	362S250-54	0.0566	0.535	1.82	1.210	0.668	1.504	0.473	0.940	1.210	0.582	11.51	2341	1.205	0.514	15.40	3372	0.571	1.506	-2.184	2.813	0.397	
	362S250-68	0.0713	0.666	2.27	1.490	0.822	1.496	0.578	0.931	1.490	0.774	16.85	2884	1.490	0.689	20.63	4370	1.129	1.837	-2.165	2.791	0.398	
	362S250-97	0.1017	0.927	3.16	2.027	1.118	1.478	0.772	0.912	2.027	1.100	24.85	3922	2.027	1.046	35.17	5943	3.197	2.452	-2.126	2.746	0.400	
	362S300-54	0.0566	0.592	2.01	1.390	0.767	1.533	0.734	1.114	1.383	0.607	11.99	2341	1.312	0.529	15.83	3372	0.632	2.316	-2.659	3.265	0.337	
	362S300-68	0.0713	0.738	2.51	1.716	0.947	1.525	0.900	1.105	1.716	0.811	16.02	2884	1.684	0.716	21.44	4370	1.250	2.833	-2.640	3.243	0.337	
	362S300-97	0.1017	1.029	3.50	2.343	1.292	1.509	1.213	1.086	2.343	1.217	26.95	3922	2.320	1.150	34.42	5943	3.548	3.803	-2.600	3.196	0.338	
	3-5/8" Track	362T125-33	0.0346	0.212	0.72	0.438	0.232	1.438	0.030	0.377	0.384	0.174	3.44	1024	0.368	0.164	4.92	1039	0.085	0.076	-0.658	1.626	0.836
		362T125-43	0.0451	0.276	0.94	0.571	0.302	1.439	0.039	0.375	0.531	0.245	4.84	1739	0.508	0.230	6.89	2141	0.187	0.098	-0.654	1.625	0.838
		362T125-54	0.0566	0.346	1.18	0.723	0.378	1.445	0.048	0.373	0.705	0.332	6.57	2480	0.678	0.312	9.34	3372	0.369	0.123	-0.648	1.627	0.841
		362T125-68	0.0713	0.436	1.48	0.921	0.475	1.454	0.060	0.370	0.921	0.453	8.95	3104	0.907	0.427	12.78	4703	0.738	0.156	-0.641	1.631	0.846
		362T125-97	0.1017	0.621	2.11	1.343	0.675	1.471	0.082	0.363	1.343	0.675	15.24	4370	1.343	0.675	20.20	6622	2.140	0.226	-0.626	1.639	0.854
		362T150-33	0.0346	0.229	0.78	0.499	0.264	1.475	0.050	0.467	0.414	0.180	3.56	1024	0.395	0.170	5.09	1039	0.091	0.124	-0.854	1.767	0.766
		362T150-43	0.0451	0.298	1.02	0.650	0.343	1.476	0.064	0.465	0.574	0.255	5.04	1739	0.547	0.239	7.15	2141	0.202	0.160	-0.850	1.766	0.768
		362T150-54	0.0566	0.374	1.27	0.823	0.431	1.483	0.080	0.462	0.769	0.349	6.89	2480	0.735	0.325	9.74	3372	0.400	0.202	-0.844	1.768	0.772
		362T150-68	0.0713	0.471	1.60	1.050	0.542	1.492	0.099	0.459	1.034	0.480	9.49	3104	0.993	0.449	13.43	4703	0.799	0.257	-0.836	1.771	0.777
		362T150-97	0.1017	0.672	2.29	1.534	0.771	1.512	0.138	0.453	1.534	0.771	15.23	4370	1.534	0.733	21.94	6622	2.315	0.374	-0.820	1.778	0.787
		362T200-33	0.0346	0.264	0.90	0.619	0.328	1.532	0.110	0.645	0.464	0.190	3.76	1024	0.445	0.167	5.00	1039	0.105	0.269	-1.270	2.092	0.631
		362T200-43	0.0451	0.343	1.17	0.808	0.427	1.534	0.142	0.643	0.649	0.270	5.34	1739	0.615	0.252	7.55	2141	0.233	0.350	-1.265	2.090	0.633
		362T200-54	0.0566	0.431	1.47	1.024	0.536	1.541	0.177	0.640	0.879	0.372	7.35	2480	0.832	0.345	10.34	3372	0.460	0.442	-1.259	2.091	0.637
		362T200-68	0.0713	0.543	1.85	1.307	0.675	1.552	0.221	0.638	1.199	0.519	10.26	3104	1.138	0.480	14.37	4703	0.919	0.564	-1.250	2.093	0.643
362T200-97		0.1017	0.773	2.63	1.917	0.963	1.575	0.308	0.631	1.915	0.867	17.14	4370	1.839	0.803	24.06	6622	2.666	0.825	-1.232	2.097	0.655	
362T250-43		0.0451	0.389	1.32	0.966	0.510	1.577	0.260	0.818	0.713	0.281	5.56	1739	0.672	0.262	7.85	2141	0.263	0.641	-1.702	2.460	0.521	
362T250-54		0.0566	0.487	1.66	1.224	0.641	1.585	0.324	0.816	0.971	0.389	7.69	2480	0.914	0.360	10.77	3372	0.521	0.812	-1.695	2.460	0.525	
362T250-68		0.0713	0.614	2.09	1.565	0.808	1.597	0.406	0.813	1.337	0.546	10.79	3104	1.259	0.502	15.04	4703	1.040	1.038	-1.686	2.460	0.530	
362T250-97		0.1017	0.875	2.98	2.300	1.155	1.621	0.570	0.807	2.180	0.928	18.34	4370	2.069	0.851	25.49	6622	3.016	1.524	-1.667	2.461	0.541	
362T300-54		0.0566	0.544	1.85	1.425	0.746	1.618	0.531	0.988	1.051	0.402	7.94	2480	0.985	0.371	11.11	3372	0.581	1.337	-2.146	2.863	0.439	
362T300-68		0.0713	0.685	2.33	1.823	0.941	1.631	0.665	0.985	1.456	0.566	11.19	3104	1.364	0.519	15.55	4703	1.161	1.711	-2.136	2.862	0.443	
362T300-97		0.1017	0.977	3.32	2.682	1.348	1.657	0.937	0.979	2.409	0.972	19.21	4370	2.268	0.887	26.54	6622	3.367	2.518	-2.116	2.860	0.453	

For section properties table notes see page 4

- A = Cross-sectional area
- I_x = Moment of inertia (x-axis)
- S_x = Section modulus (x-axis)

- R_x = Radius of gyration (x-axis)
- I_y = Moment of inertia (y-axis)
- R_y = Radius of gyration (y-axis)
- Ma = Allowable bending moment

- Va = Allowable shear force
- J = St. Venant torsion constant
- C_w = Torsional warping constant
- X_o = Distance from center of gravity to shear center along x-axis

- R_o = Polar radius of gyration about the centroidal principal axis
- β = Beta coefficient