Member Designation

MEMBER DEPTH:
Member Depths are taken in 1/100 inches.
For Track Sections, the Member Depth is the inside-to-inside dimension.
Example: 6" = 6.00" = **600** x 1/100

FLANGE WIDTH:
Flange Widths are taken in 1/100 inches.
For Track Sections, the Flange Width is the length of the leg.
Example: 1-5/8" = 1.625" = **162** x 1/100

STIFFENER LIP:

Member	Flange Width	Stiffener Lip (in)
S137	1-3/8"	0.375
S162	1-5/8"	0.500
S200	2"	0.625
S250	2-1/2"	0.625
S300	3"	0.625

600 S 162 - 54

STYLE:
Style is defined using an alpha character.
S = Stud or Joist Section
T = Track Section

MIL THICKNESS:
Mil Thickness is the minimum base steel thickness in mils.
Minimum base steel thickness represents 95% of the Design Thickness. (1 mil = 1/1000)
Example: 0.054" = 54 mils = **54** x 1/1000

Definitions of Structural Properties

EFFECTIVE SECTION PROPERTIES

I_x	Effective Moment of Ineria about the X-axis
S_x	Effective Section Modulus about the X-axis
Ma_l	Allowable Local Bending Moment about the X-axis
Ma_d	Allowable Distortional Buckling Moment about the X-axis, If = 0
Va_g	Allowable strong axis Shear away from the knockout
Va_{net}	Allowable strong axis Shear at the knockout

GROSS SECTION PROPERTIES

I_x	Gross Moment of Ineria about the X-axis
S_x	Gross Section Modulus about the X-axis
R_x	Gross Radius of Gyration about the X-axis
I_y	Gross Moment of Ineria about the Y-axis
R_y	Gross Radius of Gyration about the Y-axis

TORTIONAL SECTION PROPERTIES

J	St. Tenant Tortional Constant
C_w	Tortional Warping Constant
X_0	Distance from the Shear Center to the Centroid along the principal X-axis
m	Distance from the Shear Center to the mid-plane of the web
R_o	Polar Radius of Gyration of the cross section about the Shear Center
b	$1 - (X_o / R_o)^2$

Section Property Notes

1. Section Property calculations are based on the North American Specification for the Design of Cold-Formed Steel Structural Members, AISI S100-2007 based on the Allowable Strength Design method.
2. The Effective Moment of Inertia (Ix) shall be used for deflection calculations. It is based on serviceability calculations in which the stress times the section modulus at that stress is equal to the allowable moment.
3. The Allowable Local Buckling Moment (Mal) includes the strength increase for cold-work of forming per section A7.2, where applicable .
4. The Allowable Distortional Buckling Moment (Mad) does not include rotational restraint from sheathing. Higher Distortional Buckling Strengths can be achieved when restraint from sheathing is included in the calculation.
5. The Allowable Moment shall be taken as the lesser of the Local Buckling Moment (Mal) and Distortional Buckling Moment (Mad).
6. Factory punched knockouts can be provided in the web of structural studs. The knockout will be 1.5" wide by 4" long at a minimum of 24" on-center along the centerline of the web. The minimum distance from the end of the member to a knockout is 10".
7. The Centerline Corner Radius is the greater of 2 x the Design Thickness or 3/16"
8. The Web of track members is equal to the Nominal Height plus 2 x the Design Thickness plus the Inside Bend Radius.
9. Gross Properties and Torsional Properties are based on the full, unreduced cross section of the studs away from knockouts.

Section Properties

2-1/2" STUD PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES						GROSS SECTION PROPERTIES					TORSIONAL SECTION PROPERTIES					
					I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Ma_d (in-k)	Va_g (lb)	Va_{net} (lb)	I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
250S137-33	0.0346	33	0.197	0.67	0.203	0.158	3.414	3.095	975	399	0.203	0.163	1.015	0.052	0.515	0.079	0.076	-1.141	0.677	1.612	0.499
250S137-43	0.0451	33	0.255	0.87	0.261	0.208	4.604	4.120	1265	394	0.261	0.208	1.011	0.067	0.511	0.173	0.096	-1.129	0.670	1.599	0.501
250S137-54	0.0566	50	0.316	1.08	0.318	0.248	8.336	7.622	2353	565	0.318	0.255	1.004	0.080	0.504	0.337	0.115	-1.115	0.663	1.583	0.504
250S137-68	0.0713	50	0.390	1.33	0.386	0.309	10.676	9.243	2866	519	0.386	0.309	0.995	0.096	0.495	0.661	0.138	-1.096	0.653	1.561	0.507
250S162-33	0.0346	33	0.223	0.76	0.235	0.180	3.554	3.564	975	399	0.235	0.188	1.027	0.087	0.624	0.089	0.146	-1.470	0.859	1.898	0.401
250S162-43	0.0451	33	0.289	0.99	0.302	0.242	5.253	4.775	1265	394	0.302	0.242	1.022	0.111	0.620	0.196	0.184	-1.457	0.852	1.885	0.402
250S162-54	0.0566	50	0.358	1.22	0.370	0.288	9.544	8.792	2353	565	0.370	0.296	1.016	0.135	0.613	0.383	0.223	-1.446	0.845	1.868	0.404
250S162-68	0.0713	50	0.443	1.51	0.450	0.360	12.214	10.784	2866	519	0.450	0.360	1.008	0.162	0.605	0.752	0.268	-1.424	0.835	1.847	0.405
250S162-97	0.1017	50	0.610	2.08	0.597	0.478	16.945	14.299	3798	429	0.597	0.478	0.990	0.210	0.587	2.102	0.346	-1.386	0.815	1.801	0.408

2-1/2" TRACK PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES				GROSS SECTION PROPERTIES					TORSIONAL SECTION PROPERTIES					
					I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Va_g (lb)	I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
250T125-33	0.0346	33	0.173	0.59	0.166	0.103	2.034	1024	0.192	0.145	1.054	0.027	0.397	0.0690	0.033	-0.760	0.456	1.358	0.687
250T125-43	0.0451	33	0.225	0.77	0.231	0.147	2.909	1356	0.250	0.188	1.055	0.035	0.395	0.1526	0.042	-0.755	0.453	1.356	0.690
250T125-54	0.0566	50	0.282	0.96	0.297	0.188	5.642	2563	0.318	0.236	1.062	0.043	0.392	0.3015	0.054	-0.749	0.449	1.357	0.696
250T125-68	0.0713	50	0.355	1.21	0.403	0.262	7.850	3199	0.409	0.297	1.072	0.054	0.389	0.6022	0.069	-0.740	0.444	1.360	0.704
250T125-97	0.1017	50	0.506	1.73	0.605	0.423	14.239	4476	0.604	0.423	1.093	0.074	0.383	1.7454	0.101	-0.724	0.434	1.365	0.719
250T150-33	0.0346	33	0.190	0.65	0.180	0.107	2.110	1024	0.221	0.167	1.079	0.045	0.485	0.0759	0.054	-0.973	0.573	1.532	0.596
250T150-43	0.0451	33	0.248	0.84	0.252	0.154	3.035	1356	0.289	0.217	1.080	0.058	0.483	0.1679	0.070	-0.968	0.570	1.529	0.599
250T150-54	0.0566	50	0.311	1.06	0.325	0.197	5.893	2563	0.368	0.273	1.088	0.072	0.481	0.3317	0.089	-0.961	0.566	1.530	0.605
250T150-68	0.0713	50	0.391	1.33	0.445	0.276	8.275	3199	0.472	0.344	1.099	0.089	0.478	0.6627	0.114	-0.953	0.561	1.531	0.613
250T150-97	0.1017	50	0.557	1.90	0.701	0.463	13.871	4476	0.701	0.491	1.122	0.124	0.472	1.9207	0.168	-0.935	0.550	1.534	0.629
250T200-33	0.0346	33	0.225	0.77	0.203	0.112	2.222	1024	0.280	0.212	1.117	0.097	0.658	0.0897	0.118	-1.418	0.813	1.922	0.455
250T200-43	0.0451	33	0.293	1.00	0.288	0.163	3.214	1356	0.366	0.275	1.119	0.126	0.656	0.1985	0.153	-1.413	0.810	1.918	0.457
250T200-54	0.0566	50	0.367	1.25	0.372	0.209	6.253	2563	0.466	0.346	1.127	0.157	0.654	0.3921	0.195	-1.405	0.806	1.917	0.462
250T200-68	0.0713	50	0.462	1.58	0.517	0.296	8.868	3199	0.600	0.437	1.139	0.196	0.652	0.7835	0.251	-1.396	0.800	1.916	0.469
250T200-97	0.1017	50	0.659	2.25	0.856	0.511	15.286	4476	0.894	0.626	1.165	0.275	0.646	2.2713	0.374	-1.376	0.789	1.915	0.484

1. Web Height to Thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.
2. Effective Section Properties are not calculated when Web Height to Thickness ratio exceeds 260, or Flange Width to Thickness ratio exceeds 60.

Refer to General Product Information on page 1 for more information on Section Property tables.

Section Properties

3-1/2" STUD PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES						GROSS SECTION PROPERTIES					TORSIONAL SECTION PROPERTIES					
					I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Ma_d (in-k)	Va_g (lb)	Va_{net} (lb)	I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
350S137-33	0.0346	33	0.232	0.79	0.441	0.223	4.412	4.546	1024	487	0.442	0.252	1.380	0.059	0.503	0.093	0.153	-1.016	0.621	1.786	0.676
350S137-43	0.0451	33	0.300	1.02	0.568	0.307	6.069	6.386	1739	631	0.568	0.324	1.375	0.075	0.499	0.204	0.193	-1.005	0.615	1.775	0.679
350S137-54	0.0566	50	0.372	1.27	0.696	0.366	10.954	11.427	3372	947	0.696	0.398	1.367	0.090	0.492	0.398	0.233	-0.991	0.607	1.759	0.683
350S137-68	0.0713	50	0.461	1.57	0.849	0.472	14.126	14.530	4202	897	0.849	0.485	1.357	0.107	0.483	0.782	0.280	-0.973	0.598	1.738	0.687
350S162-33	0.0346	33	0.258	0.88	0.508	0.257	5.085	5.219	1024	487	0.508	0.291	1.404	0.098	0.617	0.103	0.277	-1.324	0.796	2.026	0.573
350S162-43	0.0451	33	0.334	1.14	0.654	0.357	7.048	7.315	1739	631	0.655	0.374	1.400	0.125	0.612	0.227	0.350	-1.312	0.789	2.014	0.575
350S162-54	0.0566	50	0.415	1.41	0.804	0.426	12.742	13.051	3372	947	0.805	0.460	1.393	0.152	0.606	0.443	0.426	-1.298	0.782	1.998	0.578
350S162-68	0.0713	50	0.515	1.75	0.985	0.549	16.444	16.848	4202	897	0.985	0.563	1.383	0.184	0.597	0.872	0.514	-1.280	0.772	1.977	0.581
350S162-97	0.1017	50	0.711	2.42	1.321	0.739	26.198	22.601	5704	775	1.321	0.755	1.363	0.238	0.579	2.452	0.672	-1.242	0.752	1.932	0.587
350S200-33	0.0346	33	0.292	1.00	0.593	0.283	5.586	5.950	1024	487	0.599	0.342	1.431	0.175	0.773	0.117	0.541	-1.760	1.039	2.396	0.461
350S200-43	0.0451	33	0.379	1.29	0.771	0.410	8.093	8.362	1739	631	0.771	0.441	1.426	0.224	0.768	0.257	0.687	-1.748	1.032	2.383	0.462
350S200-54	0.0566	50	0.471	1.61	0.950	0.470	14.068	14.868	3372	947	0.950	0.543	1.420	0.274	0.762	0.503	0.838	-1.733	1.024	2.367	0.464
350S200-68	0.0713	50	0.586	2.00	1.167	0.638	19.109	19.684	4202	897	1.167	0.667	1.411	0.333	0.754	0.993	1.018	-1.715	1.014	2.345	0.465
350S200-97	0.1017	50	0.813	2.77	1.577	0.885	30.529	26.983	5704	775	1.577	0.901	1.393	0.440	0.736	2.803	1.347	-1.676	0.994	2.300	0.469
350S250-43	0.0451	33	0.424	1.45	0.906	0.431	8.526	9.005	1739	631	0.906	0.518	1.461	0.380	0.946	0.288	1.151	-2.220	1.286	2.821	0.381
350S250-54	0.0566	50	0.528	1.80	1.107	0.494	14.783	15.922	3372	947	1.118	0.639	1.455	0.467	0.940	0.564	1.409	-2.205	1.278	2.804	0.382
350S250-68	0.0713	50	0.657	2.24	1.377	0.661	19.784	21.317	4202	897	1.377	0.787	1.447	0.570	0.931	1.114	1.718	-2.186	1.268	2.782	0.383
350S250-97	0.1017	50	0.915	3.12	1.871	1.008	33.899	32.006	5704	775	1.871	1.069	1.430	0.763	0.913	3.154	2.291	-2.147	1.248	2.736	0.384
350S300-43[2]	0.0451	33	0.469	1.60							1.041	0.595	1.489	0.589	1.120	0.318	1.767	-2.697	1.539	3.278	0.323
350S300-54	0.0566	50	0.585	1.99	1.198	0.508	15.204	16.715	3372	947	1.286	0.735	1.483	0.724	1.113	0.624	2.166	-2.682	1.531	3.261	0.323
350S300-68	0.0713	50	0.729	2.48	1.555	0.687	20.565	22.552	4202	897	1.586	0.906	1.475	0.889	1.104	1.235	2.649	-2.663	1.521	3.238	0.324
350S300-97	0.1017	50	1.016	3.46	2.141	1.099	32.903	35.002	5704	775	2.164	1.237	1.459	1.198	1.085	3.504	3.552	-2.623	1.500	3.192	0.325

3-1/2" TRACK PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES				GROSS SECTION PROPERTIES					TORSIONAL SECTION PROPERTIES					
					I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Va_g (lb)	I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
350T125-33	0.0346	33	0.207	0.71	0.355	0.165	3.267	1024	0.405	0.222	1.397	0.030	0.379	0.0828	0.070	-0.668	0.414	1.594	0.824
350T125-43	0.0451	33	0.270	0.92	0.490	0.233	4.606	1739	0.528	0.288	1.398	0.038	0.377	0.1832	0.090	-0.663	0.412	1.592	0.826
350T125-54	0.0566	50	0.339	1.15	0.626	0.297	8.896	3372	0.668	0.361	1.404	0.048	0.375	0.3619	0.114	-0.658	0.408	1.595	0.830
350T125-68	0.0713	50	0.427	1.45	0.839	0.407	12.186	4536	0.851	0.454	1.412	0.059	0.372	0.7231	0.144	-0.650	0.403	1.599	0.835
350T125-97	0.1017	50	0.608	2.07	1.243	0.645	21.689	6383	1.243	0.645	1.430	0.081	0.366	2.0960	0.209	-0.636	0.394	1.607	0.844
350T150-33	0.0346	33	0.225	0.77	0.382	0.171	3.388	1024	0.461	0.253	1.432	0.049	0.469	0.0897	0.114	-0.866	0.527	1.738	0.752
350T150-43	0.0451	33	0.293	1.00	0.531	0.243	4.799	1739	0.601	0.329	1.433	0.064	0.467	0.1985	0.148	-0.861	0.525	1.736	0.754
350T150-54	0.0566	50	0.367	1.25	0.679	0.310	9.280	3372	0.762	0.412	1.440	0.079	0.465	0.3921	0.187	-0.855	0.521	1.738	0.758
350T150-68	0.0713	50	0.462	1.58	0.919	0.428	12.813	4536	0.972	0.518	1.450	0.099	0.462	0.7835	0.238	-0.847	0.516	1.742	0.763
350T150-97	0.1017	50	0.659	2.25	1.423	0.701	20.983	6383	1.423	0.738	1.469	0.137	0.456	2.2713	0.346	-0.831	0.506	1.749	0.774
350T200-33	0.0346	33	0.259	0.88	0.428	0.181	3.573	1024	0.574	0.315	1.488	0.108	0.647	0.1035	0.249	-1.285	0.761	2.069	0.614
350T200-43	0.0451	33	0.338	1.15	0.601	0.257	5.086	1739	0.749	0.409	1.489	0.140	0.645	0.2291	0.323	-1.280	0.758	2.067	0.616
350T200-54	0.0566	50	0.424	1.44	0.770	0.329	9.850	3372	0.949	0.513	1.497	0.175	0.642	0.4526	0.409	-1.273	0.754	2.067	0.621
350T200-68	0.0713	50	0.534	1.82	1.055	0.458	13.717	4536	1.213	0.647	1.508	0.218	0.640	0.9043	0.522	-1.264	0.749	2.069	0.627
350T200-97	0.1017	50	0.761	2.59	1.708	0.769	23.024	6383	1.781	0.924	1.530	0.305	0.634	2.6219	0.765	-1.247	0.738	2.073	0.638

1. Web Height to Thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.
2. Effective Section Properties are not calculated when Web Height to Thickness ratio exceeds 260, or Flange Width to Thickness ratio exceeds 60.

Refer to General Product Information on page 1 for more information on Section Property tables.

Section Properties

3-5/8" STUD PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS	YIELD	Area	WEIGHT	EFFECTIVE SECTION PROPERTIES						GROSS SECTION PROPERTIES					TORSIONAL SECTION PROPERTIES					
					I_x	S_x	Ma_l	Ma_d	Va_g	Va_{net}	I_x	S_x	R_x	I_y	R_y	J x 1000	C_w	X_0	m	R_o	b
	(in)	(ksi)	(in^2)	(lb/ft)	(in^4)	(in^3)	(in-k)	(in-k)	(lb)	(lb)	(in^4)	(in^3)	(in)	(in^4)	(in)	(in^4)	(in^6)	(in)	(in)	(in)	
362S137-33	0.0346	33	0.236	0.80	0.479	0.232	4.589	4.731	1024	521	0.479	0.264	1.424	0.059	0.501	0.094	0.165	-1.003	0.615	1.813	0.694
362S137-43	0.0451	33	0.306	1.04	0.616	0.320	6.325	6.656	1739	676	0.616	0.340	1.419	0.075	0.497	0.207	0.208	-0.991	0.608	1.801	0.697
362S137-54	0.0566	50	0.379	1.29	0.756	0.382	11.422	11.913	3372	1016	0.756	0.417	1.412	0.091	0.490	0.405	0.251	-0.978	0.601	1.786	0.700
362S137-68	0.0713	50	0.470	1.60	0.923	0.493	14.770	15.242	4370	1004	0.924	0.509	1.401	0.109	0.481	0.797	0.302	-0.959	0.592	1.765	0.704
362S162-33	0.0346	33	0.262	0.89	0.551	0.268	5.291	5.430	1024	521	0.551	0.304	1.450	0.099	0.616	0.105	0.297	-1.308	0.789	2.048	0.592
362S162-43	0.0451	33	0.340	1.16	0.710	0.372	7.344	7.621	1739	676	0.710	0.392	1.445	0.127	0.911	0.230	0.376	-1.297	0.782	2.036	0.594
362S162-54	0.0566	50	0.422	1.44	0.873	0.444	13.281	13.598	3372	1016	0.873	0.482	1.438	0.154	0.605	0.451	0.457	-1.283	0.774	2.020	0.597
362S162-68	0.0713	50	0.524	1.78	1.069	0.574	17.186	17.658	4370	1004	1.069	0.590	1.429	0.186	0.596	0.887	0.552	-1.264	0.765	1.999	0.600
362S162-97	0.1017	50	0.724	2.47	1.436	0.776	27.535	23.713	5943	875	1.436	0.792	1.408	0.241	0.577	2.496	0.723	-1.226	0.745	1.954	0.606
362S200-33	0.0346	33	0.297	1.01	0.642	0.294	5.813	6.186	1024	521	0.648	0.358	1.478	0.177	0.772	0.118	0.577	-1.741	1.030	2.411	0.478
362S200-43	0.0451	33	0.385	1.31	0.836	0.427	8.433	8.704	1739	676	0.836	0.461	1.474	0.227	0.767	0.261	0.734	-1.729	1.024	2.398	0.480
362S200-54	0.0566	50	0.479	1.63	1.030	0.490	14.659	15.476	3372	1016	1.030	0.568	1.467	0.277	0.761	0.511	0.896	-1.715	1.016	2.382	0.482
362S200-68	0.0713	50	0.595	2.03	1.266	0.666	19.952	20.517	4370	1004	1.266	0.698	1.458	0.337	0.753	1.008	1.089	-1.696	1.006	2.360	0.484
362S200-97	0.1017	50	0.826	2.81	1.712	0.929	32.043	28.280	5943	875	1.712	0.945	1.440	0.446	0.735	2.847	1.441	-1.658	0.986	2.316	0.487
362S250-33[2]	0.0346	33	0.331	1.13							0.760	0.419	1.514	0.299	0.951	0.132	0.965	-2.211	1.284	2.844	0.395
362S250-43	0.0451	33	0.430	1.47	0.980	0.449	8.878	9.357	1739	676	0.980	0.541	1.510	0.385	0.946	0.292	1.230	-2.199	1.277	2.830	0.396
362S250-54	0.0566	50	0.535	1.82	1.198	0.514	15.398	16.545	3372	1016	1.210	0.668	1.504	0.473	0.940	0.571	1.506	-2.184	1.269	2.813	0.397
362S250-68	0.0713	50	0.666	2.27	1.491	0.689	20.639	22.175	4370	1004	1.491	0.823	1.496	0.578	0.931	1.129	1.837	-2.165	1.259	2.791	0.398
362S250-97	0.1017	50	0.927	3.16	2.028	1.056	35.506	33.493	5943	875	2.028	1.119	1.479	0.773	0.913	3.197	2.452	-2.126	1.239	2.746	0.401
362S300-33[2]	0.0346	33	0.366	1.25							0.871	0.481	1.543	0.463	1.125	0.146	1.478	-2.686	1.537	3.296	0.336
362S300-43[2]	0.0451	33	0.475	1.62							1.125	0.621	1.539	0.596	1.120	0.322	1.888	-2.674	1.530	3.282	0.336
362S300-54	0.0566	50	0.592	2.02	1.295	0.529	15.834	17.346	3372	1016	1.391	0.767	1.533	0.734	1.114	0.632	2.316	-2.659	1.522	3.265	0.337
362S300-68	0.0713	50	0.738	2.51	1.681	0.716	21.450	23.425	4370	1004	1.716	0.947	1.525	0.900	1.105	1.250	2.833	-2.640	1.512	3.243	0.337
362S300-97	0.1017	50	1.029	3.51	2.318	1.150	34.436	36.426	5943	875	2.343	1.293	1.509	1.213	1.086	3.548	3.803	-2.600	1.491	3.196	0.338

3-5/8" TRACK PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS	YIELD	Area	WEIGHT	EFFECTIVE SECTION PROPERTIES				GROSS SECTION PROPERTIES					TORSIONAL SECTION PROPERTIES					
					I_x	S_x	Ma_l	Va_g	I_x	S_x	R_x	I_y	R_y	J x 1000	C_w	X_0	m	R_o	b
	(in)	(ksi)	(in^2)	(lb/ft)	(in^4)	(in^3)	(in-k)	(lb)	(in^4)	(in^3)	(in)	(in^4)	(in)	(in^4)	(in^6)	(in)	(in)	(in)	
362T125-33	0.0346	33	0.212	0.72	0.385	0.174	3.438	1024	0.438	0.232	1.439	0.030	0.377	0.0845	0.076	-0.658	0.409	1.626	0.836
362T125-43	0.0451	33	0.276	0.94	0.531	0.245	4.840	1739	0.571	0.302	1.439	0.039	0.375	0.1870	0.098	-0.654	0.407	1.625	0.838
362T125-54	0.0566	50	0.346	1.18	0.678	0.312	9.343	3372	0.723	0.378	1.445	0.048	0.373	0.3695	0.123	-0.648	0.404	1.627	0.841
362T125-68	0.0713	50	0.436	1.48	0.908	0.427	12.779	4703	0.921	0.475	1.454	0.060	0.370	0.7382	0.156	-0.641	0.399	1.631	0.846
362T125-97	0.1017	50	0.621	2.12	1.343	0.675	22.700	6622	1.344	0.675	1.471	0.082	0.364	2.1398	0.226	-0.626	0.390	1.640	0.854
362T150-33	0.0346	33	0.229	0.78	0.414	0.180	3.565	1024	0.449	0.264	1.475	0.050	0.467	0.0914	0.124	-0.854	0.522	1.768	0.766
362T150-43	0.0451	33	0.298	1.02	0.575	0.255	5.041	1739	0.650	0.344	1.476	0.064	0.465	0.2023	0.160	-0.850	0.519	1.766	0.768
362T150-54	0.0566	50	0.374	1.28	0.735	0.325	9.745	3372	0.823	0.431	1.483	0.080	0.463	0.3997	0.202	-0.844	0.516	1.768	0.772
362T150-68	0.0713	50	0.471	1.61	0.993	0.449	13.432	4703	1.050	0.542	1.493	0.100	0.460	0.7986	0.257	-0.836	0.511	1.771	0.777
362T150-97	0.1017	50	0.672	2.29	1.535	0.733	21.944	6622	1.535	0.771	1.512	0.138	0.453	2.3152	0.374	-0.820	0.501	1.779	0.787
362T200-33	0.0346	33	0.264	0.90	0.464	0.190	3.760	1024	0.619	0.329	1.533	0.110	0.645	0.1052	0.269	-1.270	0.754	2.092	0.631
362T200-43	0.0451	33	0.343	1.17	0.650	0.270	5.343	1739	0.808	0.427	1.534	0.142	0.643	0.2329	0.350	-1.265	0.752	2.090	0.633
362T200-54	0.0566	50	0.431	1.47	0.832	0.345	10.343	3372	1.024	0.536	1.542	0.177	0.641	0.4601	0.442	-1.259	0.748	2.091	0.638
362T200-68	0.0713	50	0.543	1.85	1.138	0.480	14.377	4703	1.308	0.675	1.552	0.221	0.638	0.9194	0.564	-1.250	0.743	2.093	0.643
362T200-97	0.1017	50	0.773	2.64	1.840	0.804	24.065	6622	1.918	0.963	1.575	0.308	0.632	2.6658	0.825	-1.232	0.732	2.097	0.655
362T300-43	0.0451	33	0.434	1.48	0.767	0.290	5.732	1739	1.124	0.594	1.610	0.425	0.990	0.2940	1.055	-2.153	1.231	2.865	0.435
362T300-54	0.0566	50	0.544	1.85	0.985	0.371	11.110	3372	1.425	0.746	1.619	0.531	0.988	0.5810	1.337	-2.146	1.227	2.863	0.439
362T300-68	0.0713	50	0.685	2.34	1.365	0.520	15.555	4703	1.823	0.941	1.631	0.665	0.985	1.1610	1.711	-2.136	1.221	2.862	0.443
362T300-97	0.1017	50	0.977	3.33	2.269	0.887	26.556	6622	2.683	1.348	1.657	0.937	0.979	3.3670	2.518	-2.116	1.209	2.861	0.453

1. Web Height to Thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.
2. Effective Section Properties are not calculated when Web Height to Thickness ratio exceeds 260, or Flange Width to Thickness ratio exceeds 60.

Refer to General Product Information on page 1 for more information on Section Property tables.

Section Properties

4" STUD PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES						GROSS SECTION PROPERTIES					TORSIONAL SECTION PROPERTIES					
					I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Ma_d (in-k)	Va_g (lb)	Va_{net} (lb)	I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
400S137-33	0.0346	33	0.249	0.85	0.603	0.259	5.117	5.288	976	595	0.603	0.302	1.556	0.061	0.496	0.099	0.204	-0.965	0.597	1.897	0.741
400S137-43	0.0451	33	0.323	1.10	0.776	0.359	7.092	7.473	1739	810	0.776	0.388	1.551	0.078	0.491	0.219	0.257	-0.954	0.591	1.886	0.744
400S137-54	0.0566	50	0.401	1.37	0.953	0.428	12.824	13.382	3372	1223	0.953	0.477	1.543	0.094	0.484	0.428	0.311	-0.940	0.583	1.870	0.747
400S137-68	0.0713	50	0.497	1.69	1.165	0.558	16.702	17.444	4871	1356	1.165	0.583	1.531	0.112	0.475	0.842	0.375	-0.922	0.574	1.850	0.751
400S162-33	0.0346	33	0.275	0.94	0.692	0.299	5.907	6.068	976	595	0.693	0.346	1.586	0.103	0.611	0.110	0.363	-1.263	0.768	2.118	0.644
400S162-43	0.0451	33	0.357	1.22	0.892	0.417	8.233	8.546	1739	810	0.892	0.446	1.581	0.131	0.606	0.242	0.460	-1.252	0.761	2.106	0.647
400S162-54	0.0566	50	0.443	1.51	1.098	0.498	14.897	15.253	3372	1223	1.098	0.549	1.574	0.159	0.600	0.473	0.560	-1.238	0.754	2.090	0.649
400S162-68	0.0713	50	0.550	1.88	1.346	0.648	19.409	20.155	4871	1356	1.346	0.673	1.564	0.193	0.591	0.933	0.677	-1.220	0.745	2.069	0.653
400S162-97	0.1017	50	0.762	2.60	1.813	0.892	31.653	27.145	6658	1207	1.813	0.907	1.542	0.250	0.572	2.628	0.889	-1.182	0.725	2.026	0.660
400S200-33	0.0346	33	0.310	1.06	0.804	0.328	6.492	6.900	976	595	0.812	0.406	1.619	0.183	0.769	0.124	0.697	-1.688	1.007	2.462	0.530
400S200-43	0.0451	33	0.402	1.37	1.048	0.478	9.452	9.738	1739	810	1.048	0.524	1.615	0.235	0.764	0.272	0.886	-1.676	1.000	2.450	0.532
400S200-54	0.0566	50	0.500	1.70	1.292	0.549	16.428	17.318	3372	1223	1.292	0.646	1.608	0.287	0.758	0.534	1.083	-1.662	0.993	2.433	0.534
400S200-68	0.0713	50	0.622	2.12	1.589	0.751	22.480	23.041	4871	1356	1.590	0.795	1.599	0.349	0.750	1.054	1.318	-1.643	0.983	2.412	0.536
400S200-97	0.1017	50	0.864	2.94	2.156	1.064	36.690	32.270	6658	1207	2.156	1.078	1.580	0.463	0.732	2.978	1.749	-1.605	0.963	2.368	0.541
400S250-43	0.0451	33	0.447	1.52	1.224	0.503	9.932	10.417	1739	810	1.224	0.612	1.655	0.399	0.945	0.303	1.486	-2.139	1.252	2.865	0.443
400S250-54	0.0566	50	0.556	1.90	1.496	0.576	17.239	18.427	3372	1223	1.512	0.756	1.649	0.490	0.938	0.594	1.821	-2.124	1.244	2.848	0.444
400S250-68	0.0713	50	0.693	2.36	1.865	0.775	23.199	24.770	4871	1356	1.865	0.932	1.640	0.599	0.929	1.174	2.225	-2.105	1.235	2.826	0.445
400S250-97	0.1017	50	0.966	3.29	2.542	1.202	40.435	38.054	6658	1207	2.542	1.271	1.623	0.801	0.911	3.329	2.978	-2.066	1.214	2.781	0.448
400S300-43[2]	0.0451	33	0.492	1.68							1.400	0.700	1.687	0.617	1.120	0.334	2.282	-2.608	1.503	3.302	0.376
400S300-54	0.0566	50	0.613	2.09	1.612	0.592	17.721	19.248	3372	1223	1.732	0.866	1.681	0.760	1.114	0.655	2.802	-2.594	1.496	3.285	0.377
400S300-68	0.0713	50	0.764	2.60	2.094	0.805	24.100	26.062	4871	1356	2.140	1.070	1.673	0.933	1.105	1.295	3.432	-2.574	1.486	3.263	0.378
400S300-97	0.1017	50	1.067	3.64	2.894	1.307	39.133	40.738	6658	1207	2.928	1.464	1.656	1.259	1.086	3.679	4.619	-2.535	1.465	3.217	0.379

4" TRACK PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES				GROSS SECTION PROPERTIES					TORSIONAL SECTION PROPERTIES					
					I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Va_g (lb)	I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
400T125-33	0.0346	33	0.225	0.77	0.484	0.201	3.972	939	0.549	0.265	1.563	0.031	0.371	0.0897	0.095	-0.630	0.396	1.725	0.867
400T125-43	0.0451	33	0.293	1.00	0.666	0.282	5.569	1739	0.716	0.344	1.564	0.040	0.369	0.1985	0.122	-0.626	0.394	1.724	0.868
400T125-54	0.0566	50	0.367	1.25	0.850	0.359	10.740	3372	0.904	0.431	1.569	0.049	0.367	0.3921	0.154	-0.621	0.390	1.727	0.871
400T125-68	0.0713	50	0.462	1.58	1.134	0.488	14.625	5205	1.151	0.541	1.577	0.061	0.364	0.7835	0.194	-0.614	0.386	1.731	0.874
400T125-97	0.1017	50	0.659	2.25	1.673	0.768	25.842	7337	1.674	0.768	1.594	0.084	0.358	2.2713	0.280	-0.600	0.377	1.740	0.881
400T150-33	0.0346	33	0.242	0.82	0.519	0.208	4.118	939	0.622	0.300	1.603	0.051	0.460	0.0966	0.155	-0.821	0.507	1.859	0.805
400T150-43	0.0451	33	0.315	1.07	0.719	0.293	5.797	1739	0.811	0.390	1.604	0.066	0.458	0.2138	0.200	-0.817	0.504	1.857	0.807
400T150-54	0.0566	50	0.396	1.35	0.918	0.374	11.194	3372	1.026	0.489	1.610	0.082	0.456	0.4223	0.252	-0.811	0.501	1.860	0.810
400T150-68	0.0713	50	0.498	1.70	1.237	0.513	15.356	5205	1.306	0.615	1.619	0.102	0.453	0.8439	0.320	-0.804	0.496	1.864	0.814
400T150-97	0.1017	50	0.710	2.42	1.904	0.832	24.924	7337	1.904	0.874	1.638	0.142	0.447	2.4466	0.463	-0.788	0.487	1.872	0.823
400T200-33	0.0346	33	0.277	0.94	0.581	0.220	4.343	939	0.768	0.371	1.666	0.113	0.639	0.1104	0.336	-1.229	0.737	2.167	0.678
400T200-43	0.0451	33	0.360	1.23	0.811	0.311	6.144	1739	1.002	0.482	1.668	0.146	0.637	0.2443	0.436	-1.224	0.734	2.164	0.680
400T200-54	0.0566	50	0.452	1.54	1.037	0.397	11.878	3372	1.268	0.604	1.675	0.182	0.635	0.4828	0.551	-1.217	0.730	2.166	0.684
400T200-68	0.0713	50	0.569	1.94	1.412	0.549	16.427	5205	1.617	0.761	1.685	0.227	0.632	0.9647	0.702	-1.209	0.725	2.168	0.689
400T200-97	0.1017	50	0.811	2.77	2.269	0.911	27.288	7337	2.364	1.085	1.707	0.318	0.626	2.7973	1.022	-1.192	0.715	2.174	0.699
400T300-43	0.0451	33	0.451	1.54	0.955	0.334	6.597	1739	1.384	0.665	1.753	0.439	0.987	0.3055	1.313	-2.097	1.210	2.906	0.479
400T300-54	0.0566	50	0.565	1.93	1.224	0.427	12.770	3372	1.754	0.835	1.761	0.548	0.985	0.6037	1.662	-2.090	1.206	2.905	0.482
400T300-68	0.0713	50	0.712	2.43	1.688	0.594	17.782	5205	2.240	1.054	1.774	0.686	0.982	1.2064	2.122	-2.081	1.200	2.905	0.487
400T300-97	0.1017	50	1.015	3.46	2.786	1.005	30.103	7337	3.284	1.508	1.799	0.967	0.976	3.4985	3.111	-2.061	1.189	2.905	0.497

1. Web Height to Thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.
2. Effective Section Properties are not calculated when Web Height to Thickness ratio exceeds 260, or Flange Width to Thickness ratio exceeds 60.

Refer to General Product Information on page 1 for more information on Section Property tables.

Section Properties

5-1/2" STUD PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Ma_d (in-k)	Va_g (lb)	Va_{net} (lb)	GROSS SECTION PROPERTIES I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	TORSIONAL SECTION PROPERTIES J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
550S137-33	0.0346	33	0.301	1.03	1.283	0.453	9.816	7.487	698	698	1283.000	0.467	2.065	0.067	0.472	0.120	0.411	-0.841	0.536	2.279	0.864
550S137-43	0.0451	33	0.391	1.33	1.655	0.602	13.290	10.756	1550	1199	1.655	0.602	2.059	0.085	0.467	0.265	0.520	-0.830	0.530	2.269	0.866
550S137-54	0.0566	50	0.486	1.65	2.039	0.722	24.325	19.312	3093	1881	2.040	0.742	2.049	0.103	0.460	0.519	0.632	-0.817	0.523	2.254	0.868
550S137-68	0.0713	50	0.604	2.06	2.503	0.910	31.482	26.114	5350	2532	2.504	0.911	2.036	0.123	0.451	1.023	0.764	-0.801	0.514	2.234	0.872
550S162-33	0.0346	33	0.327	1.11	1.459	0.512	10.112	8.630	698	698	1.459	0.530	2.112	0.113	0.589	0.131	0.713	-1.114	0.697	2.459	0.795
550S162-43	0.0451	33	0.424	1.45	1.883	0.685	14.886	12.312	1550	1199	1.884	0.685	2.107	0.145	0.584	0.288	0.905	-1.103	0.691	2.449	0.797
550S162-54	0.0566	50	0.528	1.80	2.324	0.822	27.213	21.996	3093	1881	2.325	0.845	2.098	0.176	0.577	0.564	1.105	-1.090	0.684	2.434	0.800
550S162-68	0.0713	50	0.657	2.24	2.861	1.041	35.281	29.594	5350	2532	2.862	1.041	2.087	0.212	0.569	1.114	1.342	-1.072	0.675	2.414	0.803
550S162-97	0.1017	50	0.915	3.12	3.887	1.413	50.135	42.323	9518	3026	3.887	1.414	2.062	0.276	0.550	3.154	1.775	-1.037	0.656	2.372	0.809
550S200-33	0.0346	33	0.362	1.23	1.678	0.559	11.051	9.799	698	698	1.694	0.616	2.164	0.204	0.751	0.144	1.326	-1.508	0.925	2.743	0.698
550S200-43	0.0451	33	0.469	1.60	2.189	0.776	15.336	13.969	1550	1199	2.189	0.796	2.159	0.261	0.746	0.318	1.691	-1.496	0.918	2.731	0.700
550S200-54	0.0566	50	0.585	1.99	2.707	0.901	26.987	24.853	3093	1881	2.707	0.984	2.152	0.320	0.739	0.624	2.072	-1.483	0.911	2.716	0.702
550S200-68	0.0713	50	0.729	2.48	3.341	1.188	39.441	33.461	5350	2532	3.341	1.215	2.141	0.389	0.731	1.235	2.531	-1.465	0.902	2.695	0.705
550S200-97	0.1017	50	1.016	3.46	4.564	1.660	57.258	49.698	9518	3026	4.565	1.660	2.119	0.516	0.713	3.504	3.384	-1.428	0.882	2.653	0.710
550S250-43	0.0451	33	0.515	1.75	2.524	0.817	16.153	14.748	1550	1199	2.525	0.918	2.215	0.445	0.930	0.349	2.837	-1.933	1.163	3.083	0.607
550S250-54	0.0566	50	0.641	2.19	3.084	0.950	28.439	26.118	3093	1881	3.126	1.137	2.208	0.547	0.923	0.685	3.486	-1.919	1.155	3.067	0.609
550S250-68	0.0713	50	0.800	2.73	3.865	1.233	36.914	35.445	5350	2532	3.867	1.406	2.198	0.669	0.914	1.356	4.274	-1.900	1.146	3.046	0.611
550S250-97	0.1017	50	1.118	3.81	5.305	1.852	62.278	55.562	9518	3026	5.306	1.929	2.178	0.897	0.896	3.855	5.761	-1.862	1.126	3.002	0.616
550S300-43[2]	0.0451	33	0.560	1.91							2.860	1.040	2.261	0.690	1.110	0.379	4.357	-2.380	1.408	3.465	0.528
550S300-54	0.0566	50	0.698	2.38	3.295	0.984	29.447	27.004	3093	1881	3.546	1.289	2.254	0.850	1.104	0.745	5.364	-2.365	1.401	3.449	0.530
550S300-68	0.0713	50	0.871	2.97	4.285	1.287	38.537	36.862	5350	2532	4.392	1.597	2.245	1.044	1.095	1.476	6.594	-2.346	1.391	3.427	0.531
550S300-97	0.1017	50	1.220	4.16	5.966	2.005	60.035	58.565	9518	3026	6.047	2.199	2.226	1.411	1.076	4.205	8.937	-2.307	1.371	3.382	0.535

5-1/2" TRACK PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Va_g (lb)	GROSS SECTION PROPERTIES I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	TORSIONAL SECTION PROPERTIES J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
550T125-33	0.0346	33	0.277	0.94	1.029	0.270	5.327	680	1.159	0.411	2.047	0.033	0.346	0.1104	0.194	-0.541	0.350	2.145	0.936
550T125-43	0.0451	33	0.360	1.23	1.428	0.417	8.230	1504	1.510	0.534	2.047	0.043	0.345	0.2443	0.252	-0.537	0.348	2.144	0.937
550T125-54	0.0566	50	0.452	1.54	1.811	0.535	16.009	2980	1.904	0.668	2.052	0.053	0.342	0.4828	0.315	-0.532	0.345	2.147	0.939
550T125-68	0.0713	50	0.569	1.94	2.380	0.769	23.018	5350	2.413	0.839	2.059	0.066	0.340	0.9647	0.397	-0.526	0.341	2.152	0.940
550T125-97	0.1017	50	0.811	2.77	3.484	1.190	40.015	10197	3.484	1.190	2.072	0.090	0.334	2.7973	0.564	-0.514	0.333	2.161	0.943
550T150-33	0.0346	33	0.294	1.00	1.115	0.310	6.120	680	1.295	0.459	2.099	0.055	0.434	0.1173	0.320	-0.714	0.455	2.259	0.900
550T150-43	0.0451	33	0.383	1.31	1.516	0.468	9.251	1504	1.688	0.596	2.100	0.072	0.433	0.2596	0.414	-0.709	0.452	2.258	0.901
550T150-54	0.0566	50	0.480	1.64	1.928	0.595	17.806	2980	2.129	0.747	2.105	0.089	0.430	0.5130	0.519	-0.704	0.449	2.261	0.903
550T150-68	0.0713	50	0.605	2.06	2.569	0.804	24.075	5350	2.700	0.939	2.113	0.111	0.427	1.0251	0.655	-0.698	0.445	2.266	0.905
550T150-97	0.1017	50	0.862	2.94	3.905	1.278	38.277	10197	3.905	1.334	2.128	0.153	0.421	2.9726	0.937	-0.684	0.436	2.275	0.909
550T200-33	0.0346	33	0.329	1.12	1.246	0.307	6.061	680	1.567	0.555	2.184	0.123	0.613	0.1311	0.694	-1.088	0.674	2.516	0.813
550T200-43	0.0451	33	0.428	1.46	1.690	0.495	9.788	1504	2.044	0.722	2.185	0.160	0.611	0.2902	0.900	-1.083	0.671	2.514	0.814
550T200-54	0.0566	50	0.537	1.83	2.153	0.630	18.859	2980	2.579	0.905	2.191	0.199	0.609	0.5734	1.133	-1.077	0.668	2.517	0.817
550T200-68	0.0713	50	0.676	2.30	2.895	0.857	25.672	5350	3.275	1.139	2.201	0.248	0.606	1.1459	1.434	-1.070	0.663	2.521	0.820
550T200-97	0.1017	50	0.964	3.28	4.567	1.391	41.646	10197	4.747	1.621	2.219	0.347	0.600	3.3232	2.067	-1.055	0.653	2.529	0.826
550T300-43	0.0451	33	0.518	1.77	1.986	0.510	10.080	1504	2.755	0.973	2.306	0.485	0.967	0.3514	2.687	-1.904	1.133	3.143	0.633
550T300-54	0.0566	50	0.650	2.22	2.526	0.663	19.843	2980	3.480	1.221	2.313	0.606	0.965	0.6943	3.390	-1.898	1.129	3.144	0.636
550T300-68	0.0713	50	0.819	2.79	3.418	0.929	27.803	5350	4.424	1.539	2.324	0.758	0.962	1.3876	4.307	-1.889	1.123	3.146	0.640
550T300-97	0.1017	50	1.167	3.98	5.517	1.531	45.840	10197	6.431	2.196	2.347	1.068	0.957	4.0244	6.248	-1.871	1.113	3.150	0.647

1. Web Height to Thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.
2. Effective Section Properties are not calculated when Web Height to Thickness ratio exceeds 260, or Flange Width to Thickness ratio exceeds 60.

Refer to General Product Information on page 1 for more information on Section Property tables.

Section Properties

6" STUD PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Ma_d (in-k)	Va_g (lb)	Va_{net} (lb)	GROSS SECTION PROPERTIES I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	TORSIONAL SECTION PROPERTIES J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
600S137-33	0.0346	33	0.318	1.08	1.548	0.455	8.983	8.189	638	638	1.583	0.528	2.230	0.069	0.464	0.127	0.500	-0.807	0.519	2.416	0.889
600S137-43	0.0451	33	0.413	1.41	2.041	0.645	12.738	11.826	1416	1240	2.042	0.681	2.224	0.087	0.459	0.280	0.633	-0.796	0.513	2.406	0.890
600S137-54	0.0566	50	0.514	1.75	2.518	0.777	23.261	21.252	2822	1947	2.518	0.839	2.214	0.105	0.452	0.549	0.769	-0.784	0.506	2.392	0.893
600S137-68	0.0713	50	0.640	2.18	3.095	1.030	30.845	28.909	5350	2879	3.095	1.032	2.200	0.125	0.443	1.084	0.930	-0.768	0.497	2.372	0.895
600S162-33	0.0346	33	0.344	1.17	1.793	0.577	11.408	9.470	638	638	1.793	0.598	2.282	0.116	0.581	0.137	0.861	-1.072	0.677	2.588	0.828
600S162-43	0.0451	33	0.447	1.52	2.316	0.772	16.781	13.564	1416	1240	2.316	0.772	2.277	0.148	0.576	0.303	1.095	-1.062	0.670	2.577	0.830
600S162-54	0.0566	50	0.556	1.90	2.860	0.927	30.714	24.239	2822	1947	2.861	0.954	2.268	0.180	0.570	0.594	1.337	-1.049	0.066	2.563	0.833
600S162-68	0.0713	50	0.693	2.36	3.525	1.175	39.840	32.761	5350	2879	3.526	1.175	2.256	0.218	0.561	1.174	1.626	-1.032	0.655	2.543	0.835
600S162-97	0.1017	50	0.966	3.29	4.798	1.599	56.734	47.894	10472	3805	4.799	1.600	2.229	0.283	0.542	3.329	2.153	-0.997	0.636	2.501	0.841
600S200-33	0.0346	33	0.379	1.29	2.058	0.621	12.278	10.767	638	638	2.076	0.692	2.340	0.209	0.743	0.151	1.593	-1.457	0.901	2.855	0.740
600S200-43	0.0451	33	0.492	1.68	2.683	0.873	17.244	15.393	1416	1240	2.683	0.894	2.335	0.268	0.739	0.334	2.033	-1.446	0.894	2.844	0.742
600S200-54	0.0566	50	0.613	2.09	3.319	1.015	30.397	27.392	2822	1947	3.320	1.107	2.327	0.329	0.732	0.655	2.493	-1.432	0.887	2.829	0.744
600S200-68	0.0713	50	0.764	2.60	4.101	1.337	44.385	37.006	5350	2879	4.102	1.367	2.316	0.400	0.723	1.295	3.047	-1.415	0.878	2.809	0.746
600S200-97	0.1017	50	1.067	3.64	5.613	1.871	64.543	56.023	10472	3805	5.613	1.871	2.293	0.530	0.705	3.679	4.080	-1.378	0.859	2.767	0.752
600S250-43	0.0451	33	0.537	1.83	3.083	0.918	18.140	16.213	1415	1240	3.083	1.028	2.396	0.458	0.923	0.364	3.411	-1.874	1.136	3.179	0.652
600S250-54	0.0566	50	0.670	2.28	3.766	1.069	32.003	28.722	2822	1947	3.820	1.273	2.389	0.562	0.917	0.715	4.194	-1.860	1.129	3.163	0.654
600S250-68	0.0713	50	0.836	2.85	4.724	1.386	41.495	39.084	5350	2879	4.728	1.576	2.379	0.688	0.908	1.416	5.145	-1.842	1.119	3.142	0.657
600S250-97	0.1017	50	1.169	3.98	6.497	2.079	69.935	61.592	10472	3805	6.498	2.166	2.358	0.923	0.889	4.030	6.947	-1.803	1.100	3.099	0.661
600S300-43[2]	0.0451	33	0.582	1.98							3.483	1.161	2.446	0.711	1.105	0.395	5.237	-2.314	1.380	3.543	0.574
600S300-54	0.0566	50	0.726	2.47	4.015	1.106	33.129	29.632	2822	1947	4.320	1.440	2.439	0.875	1.098	0.775	6.452	-2.299	1.372	3.527	0.575
600S300-68	0.0713	50	0.907	3.09	5.222	1.446	43.300	40.541	5350	2879	5.355	1.785	2.430	1.075	1.089	1.537	7.937	-2.280	1.363	3.506	0.577
600S300-97	0.1017	50	1.271	4.33	7.281	2.248	67.293	64.697	10472	3805	7.383	2.461	2.410	1.454	1.070	4.381	10.776	-2.241	1.343	3.461	0.581

6" TRACK PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Va_g (lb)	GROSS SECTION PROPERTIES I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	TORSIONAL SECTION PROPERTIES J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
600T125-33	0.0346	33	0.294	1.00	1.258	0.297	5.869	622	1.429	0.465	2.205	0.034	0.339	0.1173	0.238	-0.516	0.337	2.289	0.949
600T125-43	0.0451	33	0.383	1.31	1.768	0.461	9.114	1377	1.862	0.604	2.205	0.044	0.337	0.2596	0.307	-0.513	0.335	2.289	0.950
600T125-54	0.0566	50	0.480	1.64	2.241	0.592	17.737	2728	2.345	0.757	2.209	0.054	0.335	0.5130	0.384	-0.508	0.332	2.292	0.951
600T125-68	0.0713	50	0.605	2.06	2.934	0.858	25.695	5350	2.970	0.951	2.216	0.067	0.332	1.0251	0.483	-0.503	0.329	2.296	0.952
600T125-97	0.1017	50	0.862	2.94	4.281	1.347	45.309	10885	4.283	1.348	2.229	0.092	0.327	2.9726	0.685	-0.491	0.321	2.305	0.955
600T150-33	0.0346	33	0.311	1.06	1.335	0.303	5.986	622	1.590	0.517	2.260	0.057	0.426	0.1242	0.390	-0.684	0.439	2.400	0.919
600T150-43	0.0451	33	0.405	1.38	1.890	0.474	9.359	1377	2.073	0.673	2.261	0.073	0.424	0.2749	0.504	-0.680	0.437	2.399	0.920
600T150-54	0.0566	50	0.509	1.73	2.401	0.609	18.239	2728	2.612	0.843	2.266	0.091	0.422	0.5432	0.632	-0.675	0.434	2.402	0.921
600T150-68	0.0713	50	0.641	2.18	3.162	0.891	26.678	5350	3.310	1.059	2.273	0.113	0.419	1.0855	0.797	-0.669	0.430	2.406	0.923
600T150-97	0.1017	50	0.913	3.11	4.779	1.444	43.238	10885	4.780	1.504	2.288	0.156	0.414	3.1479	1.138	-0.656	0.421	2.416	0.926
600T200-33	0.0346	33	0.346	1.18	1.542	0.333	6.586	622	1.913	0.623	2.352	0.126	0.604	0.1380	0.847	-1.048	0.655	2.645	0.843
600T200-43	0.0451	33	0.451	1.54	2.076	0.565	11.158	1377	2.494	0.810	2.353	0.163	0.602	0.3055	1.098	-1.044	0.652	2.644	0.844
600T200-54	0.0566	50	0.565	1.93	2.641	0.717	21.481	2728	3.146	1.015	2.359	0.203	0.600	0.6037	1.381	-1.038	0.649	2.646	0.846
600T200-68	0.0713	50	0.712	2.43	3.540	0.973	29.122	5350	3.991	1.277	2.368	0.254	0.597	1.2064	1.746	-1.031	0.644	2.651	0.849
600T200-97	0.1017	50	1.015	3.46	5.559	1.568	46.950	10885	5.774	1.817	2.385	0.355	0.591	3.4985	2.510	-1.016	0.635	2.659	0.854
600T300-43	0.0451	33	0.541	1.84	2.447	0.556	10.982	1377	3.338	1.084	2.484	0.498	0.960	0.3667	3.275	-1.848	1.109	3.242	0.675
600T300-54	0.0566	50	0.679	2.31	3.108	0.722	21.614	2728	4.213	1.359	2.492	0.622	0.957	0.7245	4.129	-1.842	1.105	3.243	0.677
600T300-68	0.0713	50	0.854	2.91	4.164	1.053	31.532	5350	5.352	1.713	2.503	0.779	0.954	1.4480	5.239	-1.834	1.100	3.246	0.681
600T300-97	0.1017	50	1.218	4.15	6.683	1.724	51.628	10885	7.763	2.443	2.524	1.096	0.949	4.1998	7.582	-1.816	1.089	3.251	0.688

1. Web Height to Thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.
2. Effective Section Properties are not calculated when Web Height to Thickness ratio exceeds 260, or Flange Width to Thickness ratio exceeds 60.

Refer to General Product Information on page 1 for more information on Section Property tables.

Section Properties

8" STUD PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES						GROSS SECTION PROPERTIES					TORSIONAL SECTION PROPERTIES					
					I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Ma_d (in-k)	Va_g (lb)	Va_{net} (lb)	I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
800S137-33[1]	0.0346	33	0.388	1.32	2.998	0.622	12.296	10.719	474	474	3.199	0.800	2.873	0.073	0.435	0.155	0.957	-0.696	0.460	2.988	0.946
800S137-43	0.0451	33	0.503	1.72	4.001	0.896	17.702	15.785	1051	1051	4.135	1.034	2.866	0.093	0.430	0.341	1.214	-0.687	0.454	2.979	0.947
800S137-54	0.0566	50	0.627	2.14	4.974	1.083	32.426	28.485	2091	2091	5.111	1.278	2.855	0.112	0.423	0.670	1.478	-0.676	0.448	2.964	0.948
800S137-68	0.0713	50	0.782	2.67	6.285	1.468	43.965	39.595	4220	3367	6.305	1.576	2.839	0.134	0.414	1.325	1.789	-0.661	0.440	2.944	0.950
800S162-33[1]	0.0346	33	0.413	1.41	3.385	0.710	14.028	12.613	474	474	3.583	0.896	2.944	0.125	0.550	0.165	1.630	-0.936	0.607	3.138	0.911
800S162-43	0.0451	33	0.537	1.83	4.500	1.019	20.142	18.337	1051	1051	4.635	1.159	2.938	0.160	0.546	0.364	2.076	-0.926	0.601	3.128	0.912
800S162-54	0.0566	50	0.670	2.28	5.600	1.229	36.793	32.828	2091	2091	5.737	1.434	2.927	0.194	0.539	0.715	2.539	-0.941	0.594	3.114	0.914
800S162-68	0.0713	50	0.836	2.85	7.070	1.663	49.805	45.133	4220	3367	7.092	1.773	2.913	0.235	0.530	1.416	3.093	-0.899	0.586	3.094	0.916
800S162-97	0.1017	50	1.169	3.98	9.714	2.428	86.146	71.976	10885	5938	9.717	2.429	2.883	0.305	0.511	4.030	4.114	-0.866	0.568	3.053	0.920
800S200-33[1]	0.0346	33	0.448	1.53	4.096	0.816	16.122	24.262	474	474	4.097	1.024	3.024	0.227	0.712	0.179	2.971	-1.288	0.817	3.363	0.853
800S200-43	0.0451	33	0.582	1.98	5.302	1.293	25.544	20.994	1051	1051	5.303	1.326	3.018	0.292	0.708	0.395	3.797	-1.277	0.811	3.353	0.855
800S200-54	0.0566	50	0.726	2.47	6.573	1.499	44.872	37.386	2091	2091	6.574	1.644	3.009	0.357	0.701	0.775	4.663	-1.265	0.880	3.338	0.856
800S200-68	0.0713	50	0.907	3.09	8.141	1.993	66.151	51.140	4220	3367	8.143	2.036	2.996	0.435	0.692	1.537	5.712	-1.248	0.796	3.319	0.859
800S200-97	0.1017	50	1.271	4.33	11.204	2.801	96.632	81.192	10885	5938	11.207	2.802	2.970	0.577	0.674	4.381	7.684	-1.214	0.777	3.278	0.863
800S250-43	0.0451	33	0.627	2.14	6.015	1.314	25.956	22.065	1051	1051	6.017	1.504	3.097	0.500	0.893	0.425	6.374	-1.675	1.043	3.632	0.787
800S250-54	0.0566	50	0.783	2.67	7.378	1.525	45.664	39.145	2091	2091	7.467	1.867	3.089	0.641	0.886	0.836	7.850	-1.661	1.036	3.617	0.789
800S250-68	0.0713	50	0.978	3.33	9.241	2.059	61.654	53.777	4220	3367	9.263	2.316	3.077	0.752	0.877	1.658	9.652	-1.644	1.027	3.597	0.791
800S250-97	0.1017	50	1.372	4.68	12.790	3.076	103.458	86.354	10885	5938	12.793	3.198	3.053	1.009	0.858	4.731	13.091	-1.607	1.881	3.555	0.796
800S300-43[2]	0.0451	33	0.672	2.29							6.730	1.683	3.164	0.779	1.076	0.456	9.785	-2.087	1.278	3.940	0.719
800S300-54	0.0566	50	0.839	2.86	7.863	1.535	45.966	40.239	2091	2091	8.360	2.090	3.156	0.959	1.069	0.896	12.076	-2.073	1.271	3.924	0.721
800S300-68	0.0713	50	1.050	3.58	10.084	2.145	64.217	55.489	4220	3367	10.384	2.596	3.145	1.179	1.060	1.779	14.888	-2.055	1.262	3.904	0.723
800S300-97	0.1017	50	1.474	5.02	14.172	3.304	98.929	89.924	10885	5938	14.379	3.595	3.123	1.595	1.040	5.082	20.304	-2.017	1.243	3.861	0.727

8" TRACK PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES				GROSS SECTION PROPERTIES					TORSIONAL SECTION PROPERTIES					
					I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Va_g (lb)	I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
800T125-33[1]	0.0346	33	0.363	1.24	2.442	0.407	8.034	465	2.897	0.711	2.824	0.036	0.313	0.1449	0.456	-0.439	0.294	2.875	0.977
800T125-43	0.0451	33	0.473	1.61	3.484	0.640	12.653	1030	3.774	0.925	2.824	0.046	0.311	0.3208	0.589	-0.436	0.292	2.875	0.977
800T125-54	0.0566	50	0.594	2.02	4.427	0.824	24.664	2039	4.747	1.158	2.828	0.057	0.309	0.6339	0.735	-0.432	0.289	2.877	0.977
800T125-68	0.0713	50	0.748	2.54	5.956	1.216	36.397	4086	6.000	1.455	2.833	0.070	0.307	1.2668	0.920	-0.427	0.286	2.881	0.978
800T125-97	0.1017	50	1.066	3.63	8.614	2.062	69.339	10885	8.617	2.062	2.844	0.097	0.301	3.6738	1.296	-0.417	0.279	2.891	0.979
800T150-33[1]	0.0346	33	0.380	1.30	2.570	0.414	8.178	465	3.181	0.781	2.892	0.060	0.397	0.1518	0.751	-0.588	0.388	2.977	0.961
800T150-43	0.0451	33	0.496	1.69	3.690	0.655	12.948	1030	4.145	1.016	2.892	0.077	0.395	0.3361	0.972	-0.584	0.386	2.977	0.961
800T150-54	0.0566	50	0.622	2.12	4.693	0.844	25.268	2039	5.216	1.272	2.896	0.096	0.393	0.6641	1.215	-0.580	0.383	2.980	0.962
800T150-68	0.0713	50	0.783	2.66	6.361	1.255	37.585	4086	6.596	1.599	2.902	0.119	0.390	1.3272	1.526	-0.575	0.379	2.984	0.963
800T150-97	0.1017	50	1.116	3.80	9.480	2.192	65.625	10885	9.483	2.270	2.914	0.165	0.385	3.8491	2.162	-0.564	0.372	2.993	0.965
800T200-33[1]	0.0346	33	0.415	1.41	2.789	0.424	8.370	465	3.750	0.921	3.006	0.135	0.571	0.1656	1.638	-0.917	0.589	3.194	0.918
800T200-43	0.0451	33	0.541	1.84	4.044	0.676	13.354	1030	4.888	1.198	3.006	0.175	0.569	0.3667	2.124	-0.913	0.587	3.193	0.918
800T200-54	0.0566	50	0.679	2.31	5.150	0.872	26.095	2039	6.154	1.501	3.012	0.218	0.567	0.7245	2.664	-0.908	0.584	3.196	0.919
800T200-68	0.0713	50	0.854	2.91	7.053	1.310	39.223	4086	7.789	1.888	3.019	0.272	0.564	1.4480	3.357	-0.902	0.580	3.201	0.921
800T200-97	0.1017	50	1.218	4.14	10.834	2.347	70.280	10885	11.215	2.684	3.034	0.379	0.558	4.1998	4.792	-0.889	0.571	3.211	0.923
800T300-43	0.0451	33	0.631	2.15	4.925	0.737	14.564	1030	6.374	1.562	3.178	0.540	0.925	0.4278	6.330	-1.657	1.024	3.702	0.800
800T300-54	0.0566	50	0.792	2.70	6.238	0.956	28.623	2039	8.030	1.959	3.185	0.675	0.923	0.8454	7.960	-1.652	1.020	3.704	0.801
800T300-68	0.0713	50	0.997	3.40	8.161	1.549	46.365	4086	10.173	2.466	3.194	0.844	0.920	1.6896	10.067	-1.644	1.015	3.708	0.803
800T300-97	0.1017	50	1.422	4.84	12.795	2.587	77.442	10885	14.680	3.514	3.213	1.188	0.914	4.9010	14.472	-1.628	1.006	3.717	0.808

1. Web Height to Thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.
2. Effective Section Properties are not calculated when Web Height to Thickness ratio exceeds 260, or Flange Width to Thickness ratio exceeds 60.

Refer to General Product Information on page 1 for more information on Section Property tables.

Section Properties

10" STUD PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Ma_d (in-k)	Va_g (lb)	Va_{net} (lb)	GROSS SECTION PROPERTIES I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	TORSIONAL SECTION PROPERTIES J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
1000S162-43[1]	0.0451	33	0.627	2.14	7.523	1.302	25.737	22.501	836	836	8.028	1.606	3.577	0.168	0.518	0.425	3.430	-0.823	0.545	3.707	0.951
1000S162-54	0.0566	50	0.783	2.67	9.391	1.572	47.068	40.392	1660	1660	9.954	1.991	3.566	0.204	0.511	0.836	4.198	-0.812	0.538	3.693	0.952
1000S162-68	0.0713	50	0.978	3.33	11.979	2.155	64.509	56.388	3345	3345	12.330	2.466	3.550	0.247	0.502	4.658	5.121	-0.798	0.531	3.673	0.953
1000S162-97	0.1017	50	1.372	4.68	16.968	3.270	97.895	92.612	9862	7175	16.973	3.395	3.517	0.320	0.483	4.731	6.827	-0.768	0.514	3.632	0.955
1000S200-43[1]	0.0451	33	0.672	2.29	8.603	1.470	29.052	26.158	836	836	9.088	1.818	3.676	0.309	0.677	0.456	6.236	-1.147	0.743	3.910	0.914
1000S200-54	0.0566	50	0.839	2.86	10.770	1.705	51.055	46.639	1660	1660	11.282	2.256	3.666	0.378	0.671	0.896	7.665	-1.135	0.737	3.896	0.915
1000S200-68	0.0713	50	1.050	3.58	13.666	2.420	72.467	64.534	3345	3345	13.999	2.800	3.652	0.460	0.662	1.779	9.401	-1.120	0.729	3.877	0.917
1000S200-97	0.1017	50	1.474	5.02	19.337	3.741	112.007	104.789	9862	7175	19.342	3.868	3.622	0.610	0.643	5.082	12.679	-1.088	0.711	3.836	0.920
1000S250-43[1]	0.0451	33	0.717	2.45	10.203	1.617	31.949	27.684	836	836	10.205	2.041	3.771	0.531	0.860	0.486	10.481	-1.518	0.965	4.155	0.867
1000S250-54	0.0566	50	0.896	3.05	12.661	1.879	56.268	49.186	1660	1660	12.681	2.536	3.762	0.653	0.854	0.957	12.922	-1.505	0.958	4.141	0.868
1000S250-68	0.0713	50	1.121	3.82	15.742	2.769	82.896	68.161	3345	3345	15.756	3.151	3.749	0.799	0.844	1.899	15.909	-1.488	0.950	4.121	0.870
1000S250-97	0.1017	50	1.576	5.37	21.828	4.210	141.587	111.315	9862	7175	21.833	4.367	3.722	1.073	0.825	5.433	21.632	-1.454	0.932	4.080	0.873
1000S300-43[1,2]	0.0451	33	0.763	2.60							11.323	2.265	3.853	0.831	1.044	0.517	16.099	-1.905	1.192	4.424	0.814
1000S300-54	0.0566	50	0.953	3.25	13.441	1.903	56.965	50.714	1660	1660	14.080	2.816	3.845	1.024	1.037	1.017	19.888	-1.892	1.185	4.409	0.816
1000S300-68	0.0713	50	1.192	4.06	17.099	2.802	83.901	70.425	3345	3345	17.513	3.503	3.833	1.258	1.027	2.020	24.551	-1.874	1.176	4.389	0.818
1000S300-97	0.1017	50	1.677	5.72	23.971	4.499	134.701	115.681	9862	7175	24.324	4.865	3.808	1.703	1.007	5.783	33.570	-1.838	1.158	4.347	0.821

10" TRACK PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Va_g (lb)	GROSS SECTION PROPERTIES I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	TORSIONAL SECTION PROPERTIES J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
1000T125-43[1]	0.0451	33	0.563	1.92	5.887	0.819	16.192	822	6.633	1.306	3.431	0.047	0.290	0.3819	0.973	-0.379	0.259	3.465	0.988
1000T125-54	0.0566	50	0.707	2.41	7.480	1.055	31.593	1627	8.337	1.635	3.434	0.059	0.288	0.7548	1.212	-0.376	0.256	3.467	0.988
1000T125-68	0.0713	50	0.890	3.03	10.156	1.575	47.150	3261	10.526	2.054	3.439	0.073	0.286	1.5084	1.515	-0.372	0.253	3.471	0.989
1000T125-97	0.1017	50	1.269	4.32	15.077	2.753	82.423	9507	15.083	2.913	3.448	0.100	0.281	4.3751	2.123	-0.363	0.247	3.478	0.989
1000T150-43[1]	0.0451	33	0.586	1.99	6.197	0.837	16.537	822	7.210	1.419	3.508	0.080	0.370	0.3972	1.612	-0.513	0.345	3.565	0.979
1000T150-54	0.0566	50	0.735	2.51	7.881	1.079	32.297	1627	9.065	1.778	3.512	0.100	0.368	0.7850	2.013	-0.509	0.342	3.567	0.980
1000T150-68	0.0713	50	0.926	3.15	10.776	1.621	48.534	3261	11.450	2.234	3.517	0.124	0.366	1.5688	2.522	-0.505	0.339	3.572	0.980
1000T150-97	0.1017	50	1.320	4.49	16.414	2.903	86.903	9507	16.420	3.171	3.527	0.172	0.361	4.5504	3.557	-0.495	0.332	3.580	0.981
1000T200-43[1]	0.0451	33	0.631	2.15	6.724	0.861	17.010	822	8.364	1.646	3.641	0.183	0.539	0.4278	3.540	-0.813	0.534	3.769	0.953
1000T200-54	0.0566	50	0.792	2.70	8.563	1.111	33.261	1627	10.520	2.063	3.645	0.228	0.537	0.8454	4.434	-0.809	0.531	3.772	0.954
1000T200-68	0.0713	50	0.997	3.39	11.821	1.684	50.425	3261	13.296	2.595	3.652	0.284	0.534	1.6896	5.576	-0.803	0.527	3.777	0.955
1000T200-97	0.1017	50	1.422	4.84	18.584	3.081	92.256	9507	19.093	3.687	3.665	0.397	0.528	4.9010	7.924	-0.791	0.519	3.786	0.956
1000T300-43[1]	0.0451	33	0.721	2.46	8.563	0.919	18.162	822	10.672	2.100	3.847	0.572	0.891	0.4890	10.582	-1.505	0.950	4.226	0.873
1000T300-54	0.0566	50	0.905	3.08	10.827	1.191	35.658	1627	13.431	2.634	3.853	0.714	0.888	0.9663	13.289	-1.500	0.947	4.228	0.874
1000T300-68	0.0713	50	1.140	3.88	14.107	1.904	57.019	3260	16.990	3.315	3.861	0.894	0.885	1.9313	16.771	-1.493	0.943	4.233	0.876
1000T300-97	0.1017	50	1.625	5.54	21.531	3.589	107.458	9505	24.440	4.720	3.878	1.257	0.880	5.6023	24.009	-1.478	0.934	4.243	0.879

1. Web Height to Thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.
2. Effective Section Properties are not calculated when Web Height to Thickness ratio exceeds 260, or Flange Width to Thickness ratio exceeds 60.

Refer to General Product Information on page 1 for more information on Section Property tables.

Section Properties

12" STUD PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Ma_d (in-k)	Va_g (lb)	Va_{net} (lb)	GROSS SECTION PROPERTIES I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	TORSIONAL SECTION PROPERTIES J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
1200S162-54[1]	0.0566	50	0.896	3.05	14.299	1.914	57.315	46.786	1377	1377	15.736	2.623	4.191	0.212	0.486	0.957	6.340	-0.732	0.493	4.282	0.971
1200S162-68	0.0713	50	1.121	3.82	18.391	2.645	79.198	66.181	2770	2770	19.525	3.254	4.174	0.255	0.477	1.899	7.739	-0.719	0.485	4.262	0.972
1200S162-97	0.1017	50	1.576	5.37	26.737	4.091	122.496	111.377	8145	7410	26.976	4.496	4.138	0.332	0.459	5.433	10.331	-0.691	0.470	4.220	0.973
1200S200-54[1]	0.0566	50	0.953	3.25	16.335	2.073	62.070	54.766	1377	1377	17.668	2.945	4.307	0.394	0.643	1.017	11.550	-1.032	0.681	4.475	0.947
1200S200-68	0.0713	50	1.192	4.06	20.865	2.963	88.717	76.595	2770	2770	21.955	3.659	4.291	0.479	0.634	2.020	14.176	-1.017	0.673	4.456	0.948
1200S200-97	0.1017	50	1.677	5.72	30.177	4.660	139.521	126.941	8145	7410	30.428	5.071	4.259	0.635	0.615	5.783	19.150	-0.987	0.656	4.415	0.950
1200S250-54[1]	0.0566	50	1.009	3.44	18.436	2.149	64.342	58.419	1377	1377	19.687	3.281	4.417	0.683	0.823	1.078	19.505	-1.378	0.892	4.699	0.914
1200S250-68	0.0713	50	1.263	4.31	23.576	3.007	90.045	81.635	2770	2770	24.491	4.082	4.403	0.836	0.813	2.141	24.034	-1.362	0.884	4.680	0.915
1200S250-97	0.1017	50	1.779	6.06	33.837	5.038	150.828	135.450	8145	7410	34.027	5.671	4.373	1.122	0.794	6.134	32.734	-1.329	0.867	4.639	0.918
1200S300-54[1]	0.0566	50	1.066	3.63	21.044	2.273	68.044	60.680	1377	1377	21.705	3.618	4.513	1.074	1.004	1.138	30.051	-1.743	1.111	4.941	0.876
1200S300-68	0.0713	50	1.335	4.55	26.510	3.318	99.327	84.831	2770	2770	27.028	4.505	4.500	1.320	0.994	2.262	37.126	-1.726	1.103	4.921	0.877
1200S300-97	0.1017	50	1.881	6.41	37.086	5.831	174.582	141.129	8145	7410	37.626	6.271	4.473	1.787	0.975	6.484	50.853	-1.691	1.085	4.880	0.880

12" TRACK PROPERTIES

MEMBER DESIGNATION	DESIGN THICKNESS (in)	YIELD (ksi)	Area (in^2)	WEIGHT (lb/ft)	EFFECTIVE SECTION PROPERTIES I_x (in^4)	S_x (in^3)	Ma_l (in-k)	Va_g (lb)	GROSS SECTION PROPERTIES I_x (in^4)	S_x (in^3)	R_x (in)	I_y (in^4)	R_y (in)	TORSIONAL SECTION PROPERTIES J x 1000 (in^4)	C_w (in^6)	X_0 (in)	m (in)	R_o (in)	b
1200T125-54[1]	0.0566	50	0.820	2.79	11.463	1.286	38.512	1354	13.341	2.187	4.034	0.060	0.271	0.8756	1.820	-0.333	0.230	4.056	0.993
1200T125-68	0.0713	50	1.033	3.52	15.689	1.934	57.905	2712	16.834	2.749	4.037	0.074	0.268	1.7501	2.270	-0.329	0.227	4.060	0.993
1200T125-97	0.1017	50	1.472	5.02	23.753	3.443	103.069	7901	24.090	3.899	4.045	0.102	0.264	5.0763	3.171	-0.322	0.222	4.066	0.994
1200T150-54[1]	0.0566	50	0.848	2.89	12.023	1.313	39.318	1354	14.384	2.358	4.118	0.103	0.348	0.9059	3.033	-0.454	0.310	4.157	0.988
1200T150-68	0.0713	50	1.068	3.64	16.568	1.987	59.484	2712	18.156	2.964	4.122	0.127	0.345	1.8105	3.795	-0.450	0.307	4.161	0.988
1200T150-97	0.1017	50	1.523	5.19	25.721	3.616	108.275	7901	25.999	4.208	4.131	0.176	0.340	5.2516	5.335	-0.441	0.301	4.169	0.989
1200T200-54[1]	0.0566	50	0.905	3.08	12.964	1.350	40.418	1354	16.470	2.700	4.266	0.236	0.510	0.9663	6.714	-0.730	0.487	4.358	0.972
1200T200-68	0.0713	50	1.140	3.88	18.029	2.058	61.628	2712	20.799	3.396	4.272	0.294	0.508	1.9313	8.431	-0.725	0.483	4.363	0.972
1200T200-97	0.1017	50	1.625	5.54	28.962	3.820	114.357	7901	29.817	4.826	4.284	0.410	0.502	5.6022	11.945	-0.714	0.476	4.372	0.973
1200T300-54[1]	0.0566	50	1.018	3.47	14.454	1.391	41.655	1354	20.642	3.384	4.503	0.745	0.855	1.0872	20.211	-1.375	0.884	4.785	0.917
1200T300-68	0.0713	50	1.282	4.37	20.344	2.140	64.065	2712	26.087	4.259	4.510	0.932	0.852	2.1729	25.471	-1.369	0.880	4.790	0.918
1200T300-97	0.1017	50	1.828	6.23	33.386	4.052	121.314	7901	37.453	6.062	4.526	1.311	0.847	6.3035	36.357	-1.355	0.871	4.800	0.920

1. Web Height to Thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.
2. Effective Section Properties are not calculated when Web Height to Thickness ratio exceeds 260, or Flange Width to Thickness ratio exceeds 60.

Refer to General Product Information on page 1 for more information on Section Property tables.