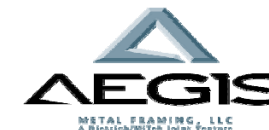


Ultra-Span Structural Properties



MEMBER DESIGNATION			GROSS SECTION PROPERTIES					EFFECTIVE SECTION PROPERTIES									TORSIONAL SECTION PROPERTIES				
	T	WEIGHT						POSITIVE BENDING				NEGATIVE BENDING									
	(in)	(lbs/ft)	Area (in ²)	Ix (in ⁴)	Iy (in ⁴)	Sx (in ³)	Sy (in ³)	Ix (in ⁴)	Iy (in ⁴)	Sx (in ³)	Sy (in ³)	Ix (in ⁴)	Iy (in ⁴)	Sx (in ³)	Sy (in ³)	(in ²)	Xo (in)	J (in ⁴)	Cw (in ⁶)	Ro (in)	β
(mm)	(kg/m)	(mm ²)	(mm ⁴)	(mm ⁴)	(mm ³)	(mm ³)	(mm ⁴)	(mm ⁴)	(mm ³)	(mm ³)	(mm ⁴)	(mm ⁴)	(mm ³)	(mm ³)	(mm ²)	(mm)	(mm ⁴)	(cm ⁶)	(mm)		
25USC 035 50	0.0368	0.681	0.200	0.184	0.959	0.038	0.437	0.173	0.038	0.120	0.038	0.184	0.038	0.123	0.038	0.169	-0.0373	0.000090	0.039	1.2996	-0.7873
	0.93472	1.01	129.219	76711.452	24.36622	15879.229	11.0871	71941.44	15879.229	50085.127	15737.71	3020.1359	625.16649	2010.365	619.59489	108.99978	-0.94742	37.631483	10.4724	33.0098	-19.9975
25USC 046 50	0.0484	0.88	0.25915	0.23403	0.9503	0.04781	0.4295	0.22811	0.04781	0.15569	0.04768	0.23403	0.04781	0.15649	0.04768	0.23916	-0.0338	0.0002024	0.04757	1.2903	-0.75324
	1.22936	1.31	167.193	97410.641	24.13762	19900.024	10.9093	94946.55	19900.024	64803.071	19845.914	3835.0646	783.46553	2564.4116	781.33521	154.29647	-0.85852	84.228591	12.7745	32.7736	-19.1323
35USC 035 50	0.0368	1.01	0.2962	0.4766	1.2684	0.0787	0.5153	0.4467	0.0773	0.2306	0.0699	0.4454	0.0698	0.2145	0.0612	0.2610	0.0310	0.000134	0.20837	1.8554	-2.32844
	0.93472	1.50	191.103	198375.9	32.21736	32757.413	13.08862	185934.74	32170.527	95970.48	29098.739	7298.7983	1143.9809	3514.3697	1003.2161	168.40611	0.7874	55.654304	55.9548	47.1272	-59.1423
35USC 046 50	0.0484	1.24	0.3857	0.6171	1.2649	0.1008	0.5112	0.6134	0.1008	0.3054	0.0906	0.6069	0.0957	0.2984	0.0851	0.3681	0.0305	0.000301	0.26075	1.8547	-2.32771
	1.22936	1.84	248.851	256856.41	32.12846	41956.128	12.98448	255308.03	41956.128	127104.59	37702.243	9945.9646	1568.8975	4889.4083	1394.703	237.4963	0.7747	125.36474	70.0207	47.1094	-59.1237
35USC 057 50	0.0600	1.61	0.4732	0.7517	1.2603	0.1217	0.5072	0.7517	0.1217	0.3725	0.1094	0.7517	0.1215	0.3725	0.1091	0.4722	0.0307	0.000568	0.30659	1.8533	-2.32187
	1.524	2.40	305.296	312881.16	32.01162	50655.364	12.88288	312864.51	50655.364	155058.69	45535.718	12317.501	1990.5367	6104.673	1787.8287	304.651	0.77978	236.36118	82.3304	47.0738	-58.9755
35USC 073 50	0.0768	2.03	0.5977	0.9474	1.2591	0.1501	0.5011	0.9474	0.1501	0.4672	0.1348	0.9474	0.1501	0.4672	0.1348	0.5977	0.0308	0.001175	0.36482	1.8583	-2.33976
	1.95072	3.03	385.586	394337.65	31.98114	62476.337	12.72794	394341.81	62468.012	194459.16	56120.483	15525.268	2459.3706	7655.8724	2209.4678	385.58633	0.78232	489.07193	97.9673	47.2008	-59.4298
35USD 035 50	0.0368	1.21	0.3555	0.5990	1.2981	0.2352	0.8133	0.5196	0.2317	0.2663	0.1301	0.5446	0.2119	0.2471	0.1158	0.2902	0.1008	0.000161	0.46888	2.0128	-2.65574
	0.93472	1.80	229.348	249322.62	32.97174	97897.631	20.65782	216273.85	96428.334	110859.08	54160.033	8923.7396	3472.4189	4049.0796	1898.2775	187.19963	2.56032	66.805144	125.911	51.1251	-67.4559
35USD 046 50	0.0484	1.58	0.4637	0.7772	1.2946	0.3037	0.8093	0.7272	0.3037	0.3556	0.1695	0.7432	0.2902	0.3434	0.1605	0.4098	0.0989	0.000362	0.59215	2.0081	-2.64504
	1.22936	2.35	299.154	323495.06	32.88284	126409.48	20.55622	302700.14	126417.81	148028.54	70559.551	12178.702	4755.1982	5627.4816	2629.9599	264.38012	2.51206	150.7174	159.014	51.0057	-67.1841
35USD 057 50	0.0600	1.94	0.5699	0.9486	1.2902	0.3697	0.8055	0.9152	0.3697	0.4407	0.2064	0.9349	0.3687	0.4372	0.2057	0.5162	0.0980	0.000684	0.70306	2.0024	-2.62674
	1.524	2.89	367.657	394837.13	32.77108	153880.76	20.4597	380947.49	153889.08	183420.7	85922.653	15320.922	6041.4189	7164.5883	3371.3107	333.00579	2.4892	284.61905	188.797	50.861	-66.7192
35 USD 073 50	0.0768	2.53	0.7453	1.2476	1.2938	0.5300	0.8432	1.2388	0.5300	0.5815	0.2810	1.2476	0.5300	0.5812	0.2810	0.6806	0.0891	0.001465	1.00520	2.0070	-2.67834
	1.95072	3.78	480.864	519290.33	32.86252	220602.66	21.41728	515627.49	220602.66	242021.92	116961.03	20444.501	8685.1439	9523.67	4604.765	439.1217	2.26314	609.94553	269.932	50.9778	-68.0298
35 USD 097 50	0.1021	3.30	0.9715	1.5926	1.2803	0.6779	0.8353	1.5926	0.6779	0.7426	0.3596	1.5926	0.6779	0.7426	0.3596	0.9315	0.0902	0.003376	1.20680	1.9904	-2.61076
	2.59334	4.92	626.773	662890.17	32.51962	282163.28	21.21662	662890.17	282163.28	309093.46	149676.82	26098.038	11108.791	12169.034	5892.7882	600.94719	2.29108	1405.114	324.069	50.5562	-66.3133
55USC 035 50	0.0368	1.28	0.3770	1.4615	1.9690	0.0792	0.4584	1.3740	0.0777	0.4561	0.0711	1.2890	0.0707	0.3853	0.0631	0.2495	-0.0683	0.000170	0.47473	2.7125	-6.73285

	0.93472	1.91	243.206	608322.23	50.0126	32965.529	11.64336	571901.98	32341.182	189838.99	29602.379	21122.925	1158.5654	6314.4274	1034.0237	160.96742	-1.73482	70.830102	127.482	68.8975	-171.014
55USC 046 50	0.0484	1.67	0.4912	1.8939	1.9636	0.1015	0.4545	1.8762	0.1015	0.6052	0.0923	1.8010	0.0965	0.5588	0.0871	0.3612	-0.0652	0.000384	0.59401	2.7158	-6.73396
	1.22936	2.49	316.922	788300.7	49.87544	42247.49	11.5443	780933.4	42247.49	251882.45	38409.836	29513.102	1581.3517	9156.9275	1426.6578	232.99953	-1.65608	159.65805	159.513	68.9813	-171.043
55USC 057 50	0.0600	2.05	0.6030	2.3077	1.9563	0.1225	0.4507	2.3077	0.1225	0.7411	0.1113	2.2729	0.1222	0.7212	0.1110	0.4718	-0.0620	0.000724	0.69890	2.7170	-6.72284
	1.524	3.05	389.031	960537.26	49.69002	50988.35	11.44778	960537.26	50988.35	308481.6	46326.558	37246.158	2002.4992	11817.859	1819.2918	304.41229	-1.5748	301.18506	187.68	69.0118	-170.76
55 USC 073 50	0.0768	2.59	0.7628	2.9140	1.9546	0.1509	0.4449	2.9140	0.1509	0.9333	0.1369	2.9140	0.1509	0.9333	0.1369	0.6230	-0.0565	0.001500	0.83361	2.7312	-6.77127
	1.95072	3.86	492.096	1212898.4	49.64684	62809.322	11.30046	1212898.4	62809.322	388468.79	56982.082	47751.904	2472.808	15294.047	2243.3891	401.95403	-1.4351	624.18065	223.854	69.3725	-171.99
55 USD 035 50	0.0368	1.48	0.4363	1.7854	2.0230	0.2355	0.7347	1.5716	0.2319	0.5154	0.1305	1.5318	0.2124	0.4338	0.1169	0.3020	-0.0505	0.000197	1.07480	2.8900	-7.64654
	0.93472	2.21	281.451	743139.59	51.3842	98022.501	18.66138	654149.31	96524.068	214542.33	54305.714	25101.705	3480.6124	7107.889	1915.6478	194.85767	-1.2827	81.955968	288.622	73.406	-194.222
55 USD 046 50	0.0484	1.94	0.5692	2.3176	2.0179	0.3041	0.7309	2.1776	0.3041	0.6880	0.1701	2.1444	0.2906	0.6278	0.1614	0.4418	-0.0479	0.000445	1.35700	2.8869	-7.61305
	1.22936	2.88	367.225	964657.95	51.25466	126575.98	18.56486	906385.55	126575.98	286367.22	70800.965	35140.42	4762.0808	10287.799	2644.8721	285.04459	-1.21666	185.01487	364.403	73.3273	-193.371
55USD 057 50	0.0600	2.38	0.6997	2.8291	2.0109	0.3702	0.7274	2.7137	0.3702	0.8501	0.2070	2.7439	0.3691	0.8231	0.2063	0.5729	-0.0451	0.000840	1.61160	2.8814	-7.5644
	1.524	3.54	451.393	1177560.3	51.07686	154088.87	18.47596	1129527.2	154088.87	353838.33	86159.905	44964.465	6048.4653	13488.192	3380.6513	369.59926	-1.14554	349.4679	432.772	73.1876	-192.136
55USD 073 50	0.0768	3.10	0.9104	3.7099	2.0186	0.5306	0.7634	6.6371	0.5306	1.1177	0.5088	3.7082	0.5306	1.1228	0.2819	0.7883	-0.0570	0.001790	2.30400	2.8762	-7.60366
	1.95072	4.61	587.373	1544177	51.27244	220852.39	19.39036	2762569.6	220852.39	465221.86	211778.55	60766.511	8694.9762	18399.395	4619.5133	508.58608	-1.4478	745.05425	618.707	73.0555	-193.133
55USD 097 50	0.1021	4.05	1.1904	4.8145	2.0111	0.6787	0.7551	4.8145	0.6787	1.4555	0.3603	4.8145	0.6787	1.4555	0.3603	1.1188	-0.0494	0.004137	2.80600	2.8735	-7.54334
	2.59334	6.03	767.998	2003946.2	51.08194	282496.27	19.17954	2003946.2	282496.27	605824.84	149968.18	78895.52	11121.9	23851.372	5904.2592	721.80501	-1.25476	1721.7413	753.512	72.9869	-191.601
725USC 046 50	0.0484	1.96	0.5756	3.7967	2.5682	0.1019	0.4207	3.7535	0.1019	0.9318	0.0936	3.7352	0.0971	0.9144	0.0885	0.3508	-0.1010	0.000449	0.98205	3.4846	-11.8565
	1.22936	2.92	371.373	1580305.9	65.23228	42413.982	10.68578	1562324.7	42413.982	387844.44	38959.261	61208.961	1591.1839	14984.331	1450.2552	226.30277	-2.5654	187.0877	263.716	88.5088	-301.156
725USC 057 50	0.0600	2.41	0.7080	4.6477	2.5621	0.1230	0.4168	4.6477	0.1230	1.1466	0.1128	4.6455	0.1227	1.1458	0.1125	0.4677	-0.0971	0.000850	1.16090	3.4896	-11.8644
	1.524	3.59	456.773	1934518.8	65.07734	51196.465	10.58672	1934518.8	51196.465	477250.95	46950.905	76126.106	2010.6928	18776.298	1843.5447	301.72843	-2.46634	353.63022	311.743	88.6358	-301.356
725USC 073 50	0.0768	3.04	0.8954	5.8260	2.5507	0.1510	0.4113	5.8256	0.1515	1.4390	0.1386	5.8256	0.1515	1.4390	0.1386	0.6233	-0.0897	0.001760	1.37930	3.5009	-11.8924
	1.95072	4.54	577.676	2424964.3	64.78778	62850.945	10.44702	2424797.8	63059.061	598957.02	57689.676	95464.48	2482.6402	23580.985	2271.2471	402.14758	-2.27838	732.7338	370.392	88.9229	-302.067
725USD 046 50	0.0484	2.22	0.6539	4.5763	2.6455	0.3043	0.6821	4.3064	0.3043	1.0465	0.1707	4.4171	0.2909	1.0232	0.1622	0.4114	-0.1013	0.000511	2.26170	3.6971	-13.4278
	1.22936	3.31	421.87	1904799.9	67.1957	126659.22	17.32534	1792459	126659.22	435586.19	71050.704	72383.3	4766.9969	16767.244	2657.9818	265.44463	-2.57302	212.52777	607.348	93.9063	-341.067
725USD 057 50	0.0600	2.74	0.8047	5.5990	2.6377	0.3700	0.6784	5.3537	0.3703	1.2926	0.2077	5.5389	0.3693	1.2971	0.2070	0.5340	-0.0974	0.000966	2.69300	3.6944	-13.3777
	1.524	4.08	519.134	2330479.8	66.99758	154005.63	17.23136	2228378.2	154130.5	538020.74	86451.267	90766.309	6051.7427	21255.661	3392.1222	344.54125	-2.47396	401.91306	723.167	93.8378	-339.795
725USD 073 50	0.0768	3.55	1.0444	7.3120	2.6460	0.5310	0.7129	7.0956	0.5309	1.6900	0.2829	7.3123	0.5309	1.7083	0.2829	0.7493	-0.1098	0.002054	3.85110	3.6803	-13.3649
	1.95072	5.29	673.805	3043484.2	67.2084	221018.89	18.10766	2953411.7	220977.26	703431.11	117751.87	119827.13	8699.8923	27994.021	4635.9004	483.39258	-2.78892	854.73123	1034.16	93.4796	-339.467
725USD 097 50	0.1021	4.65	1.3686	9.5140	2.6366	0.6790	0.7044	9.4983	0.6790	2.2190	0.3612	9.5137	0.6790	2.2200	0.3612	1.0712	-0.1003	0.004756	4.71290	3.6836	-13.3179
	2.59334	6.93	882.966	3960025.8	66.96964	282621.14	17.89176	3953490.9	282621.14	923617.53	150342.79	155901.61	11126.816	36379.282	5919.0075	691.09539	-2.54762	1979.4302	1265.58	93.5634	-338.275
15USW 035 50	0.0368	0.45	0.1320	0.0488	0.6080	0.0157	0.3447	0.0480	0.0157	0.0629	0.0264	0.0480	0.0157	0.0629	0.0264	0.1226	-0.7856	0.000060	0.00784	1.0515	-2.37494
	0.93472	0.67	85.1869	20316.256	15.4432	6530.6711	8.75538	19960.378	6528.5899	26196.357	10991.839	785.84165	257.0311	1031.3526	432.74959	79.096616	-19.9542	24.808225	2.10527	26.7081	-60.3234

15USW 046 50	0.0484	5.81	0.1709	0.0621	0.6027	0.0197	0.3393	0.6208	0.0197	0.0828	0.3311	0.0621	0.0197	0.0828	0.0331	0.1709	-0.7712	0.000133	0.00957	1.0359	-2.26561
	1.22936	8.66	110.277	25839.647	15.30858	8191.4345	8.61822	258396.47	8190.1858	34453.14	137810.06	1017.3089	322.44826	1356.4228	542.5593	110.2772	-19.5885	55.554408	2.57088	26.3119	-57.5465
25USWD 035 50	0.0368	0.81	0.2379	0.2508	1.0267	0.0927	0.6243	0.23265	0.09187	0.17665	0.09183	0.23265	0.08198	0.17665	0.08884	0.17723	-1.4678	0.000107	0.14883	1.8969	-10.3212
	0.93472	1.21	153.464	104370.03	26.07818	38592.978	15.85722	96836.241	38239.181	73527.281	38222.532	3812.4504	1343.4115	2894.7749	1455.8268	114.34171	-37.2821	44.69493	39.9662	48.1813	-262.159
30USW 035 50	0.0368	0.72	0.2125	0.1968	0.9624	0.0231	0.3294	0.17152	0.02306	0.10392	0.03978	0.16809	0.02306	0.10274	0.03978	0.17857	0.0726	0.000096	0.03217	1.0201	0.10224
	0.93472	1.08	137.084	81918.507	24.44496	9598.2967	8.36676	71392.014	9598.2967	43254.77	16557.686	2754.5016	377.8857	1683.607	651.87741	115.20622	1.84404	39.924918	8.6396	25.9105	2.59699
30USW 046 50	0.0484	0.94	0.2759	0.2502	0.9522	0.0292	0.3255	0.23665	0.02923	0.14936	0.0505	0.23279	0.02923	0.14848	0.0505	0.25395	0.0679	0.000215	0.04003	1.2996	-0.51708
	1.22936	1.40	178.025	104124.45	24.18588	12166.445	8.2677	98501.167	12166.445	62168.326	21019.687	3814.7446	478.99388	2433.1513	827.54673	163.83838	1.72466	89.685385	10.75	33.0098	-13.134
30USW 057 50	0.0600	1.18	0.3377	0.2996	0.9419	0.0349	0.3216	0.29787	0.03492	0.19336	0.06042	0.29636	0.03492	0.1939	0.06042	0.33182	0.0633	0.000405	0.04692	0.9976	0.12708
	1.524	1.76	217.877	124711.26	23.92426	14534.801	8.16864	123982.85	14534.801	80482.508	25148.703	4856.4703	572.23627	3177.4517	990.10641	214.07699	1.60782	168.67779	12.5984	25.339	3.22792
362USWD 035 50	0.0368	0.95	0.2793	0.5875	1.4504	0.1058	0.6156	0.54678	0.10481	0.28794	0.0961	0.54678	0.08464	0.28794	0.08994	0.18057	-1.3054	0.000126	0.30248	2.0461	-10.2326
	0.93472	1.41	180.174	244535.96	36.84016	44037.285	15.63624	227587.02	43625.216	119849.68	39999.84	8960.1189	1387.0011	4718.4912	1473.8525	116.49654	-33.1572	52.474296	81.2267	51.9709	-259.907
362USWD 046 50	0.0484	1.24	0.3646	0.7609	1.4447	0.1358	0.6102	0.73006	0.13576	0.39088	0.12487	0.73006	0.12026	0.39088	0.11972	0.26538	-1.2918	0.000285	0.38397	2.0318	-10.0463
	1.22936	1.85	235.212	316710.49	36.69538	56524.228	15.49908	303873.91	56507.578	162696.54	51974.818	11963.54	1970.7083	6405.3756	1961.8593	171.21256	-32.8117	118.49276	103.11	51.6077	-255.176
362USWD 057 50	0.0600	1.53	0.4486	0.9289	1.4390	0.1641	0.6049	0.91958	0.16411	0.50312	0.15094	0.91958	0.15601	0.50312	0.14834	0.37049	-1.2782	0.000538	0.45926	2.0175	-9.86164
	1.524	2.27	289.399	386637.37	36.5506	68303.577	15.36446	382758.09	68307.739	209414.35	62825.971	15069.216	2556.5459	8244.6596	2430.8571	239.02533	-32.4663	224.05738	123.328	51.2445	-250.486
362USWD 073 50	0.0768	1.93	0.5679	1.1625	1.4307	0.2025	0.5971	1.1625	0.2025	0.64137	0.18622	1.1625	0.2025	0.64137	0.18622	0.51977	-1.2584	0.001117	0.55783	1.9968	-9.59633
	1.95072	2.88	366.386	483869.03	36.33978	84286.864	15.16634	483869.03	84286.864	266958.35	77510.616	19049.962	3318.3805	10510.171	3051.5991	335.33481	-31.9634	464.72239	149.797	50.7187	-243.747
60USWD 035 50	0.0368	1.25	0.3667	1.9107	2.2827	0.1238	0.5811	1.7089	0.1225	0.52744	0.10092	1.7089	0.0869	0.52744	0.09083	0.18336	-1.0675	0.000166	0.88002	2.5861	-12.3488
	0.93472	1.86	236.561	795293.38	57.98058	51529.45	14.75994	711297.88	50988.35	219537.1	42006.075	28003.854	1424.0359	8643.193	1488.437	118.29654	-27.1145	68.886301	236.317	65.6869	-313.659
60USWD 046 50	0.0484	1.63	0.4795	2.4837	2.2759	0.1588	0.5755	2.3848	0.1588	0.77529	0.13123	2.3848	0.1253	0.77529	0.12149	0.2718	-1.0550	0.000374	1.12240	2.5737	-12.1675
	1.22936	2.43	309.374	1033794	57.80786	66097.55	14.6177	992628.7	66097.55	322700.06	54622.05	39079.87	2053.2991	12704.727	1990.8644	175.35449	-26.797	155.83705	301.405	65.372	-309.054
60USWD 057 50	0.0600	2.01	0.5911	3.0430	2.2690	0.1920	0.5700	3.0083	0.192	0.9951	0.1587	0.0083	0.1652	0.9951	0.1513	0.38286	-1.0425	0.000709	1.34890	2.5612	-11.9867
	1.524	2.99	381.335	1266592.2	57.6326	79916.434	14.478	1252149	79916.434	414191.89	66055.927	136.01263	2707.143	16306.767	2479.3628	247.00596	-26.4795	295.23295	362.228	65.0545	-304.461
60USWD 073 50	0.0768	2.55	0.7503	3.8288	2.2590	0.2370	0.5620	3.8288	0.237	1.2763	0.1961	3.8288	0.2218	1.2763	0.192	0.54613	-1.0244	0.001475	1.64980	2.5433	-11.7285
	1.95072	3.80	484.064	1593666.9	57.3786	98646.848	14.2748	1593666.9	98646.848	531236.17	81622.983	62742.791	3634.6508	20914.81	3146.3163	352.34123	-26.0198	614.0246	443.03	64.5998	-297.903