

Height Limitation Tables For Wind Load—6" Studs



MEMBER		SPACING O.C. (in.)	WIND LOAD																					
CODE	GAGE		5 PSF			15 PSF			20 PSF			25 PSF			30 PSF			35 PSF			40 PSF			
			L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	
DEFLECTION LIMIT																								
ft. - in.																								
CWN	20	12	27-7	24-1	20-4	19-1	16-8	14-1	17-4	15-2	12-9	16-1	14-1	11-11	15-2	13-3	11-2	14-5	12-7	10-7	13-9	12-0	10-2	
		16	25-0	21-10	18-5	17-4	15-2	12-9	15-9	13-9	11-7	14-8	12-9	10-9	13-9	12-0	10-2	13-1	11-5	9-8	12-6	10-11	9-3	
		24	21-10	19-1	16-1	15-2	13-3	11-2	13-9	12-0	10-2	12-9	11-2	9-5	12-0	10-6	8-10	11-4	10-0	8-5	10-7	9-7	8-1	
CSJ	20	12	28-9	25-1	21-2	19-11	17-5	14-8	18-1	15-10	13-4	16-10	14-8	12-5	15-10	13-10	11-8	15-0	13-1	11-1	14-4	12-7	10-7	
		16	26-1	22-10	19-3	18-1	15-10	13-4	16-5	14-4	12-1	15-3	13-4	11-3	14-4	12-7	10-7	13-8	11-11	10-1	13-1	11-5	9-7	
		24	22-10	19-11	16-10	15-10	13-10	11-8	14-4	12-7	10-7	13-4	11-8	9-10	12-7	11-0	9-3	11-11	10-5	8-9	11-4	10-0	8-5	
CSW	20	12	30-0	26-2	22-1	20-9	18-2	15-4	18-10	16-6	13-11	17-6	15-4	12-11	16-6	14-5	12-2	15-8	13-8	11-6	15-0	13-1	11-0	
		16	27-3	23-9	20-1	18-10	16-6	13-11	17-2	15-0	12-8	15-11	13-11	11-9	15-0	13-1	11-0	14-3	12-5	10-6	13-7	11-11	10-0	
		24	23-9	20-9	17-6	16-6	14-5	12-2	15-0	13-1	11-0	13-11	12-2	10-3	13-1	11-5	9-8	12-4	10-10	9-2	11-7	10-5	8-9	
CWN	18	12	29-11	26-2	22-0	20-9	18-1	15-3	18-10	16-6	13-11	17-6	15-3	12-11	16-6	14-5	12-2	15-8	13-8	11-6	15-0	13-1	11-0	
		16	27-2	23-9	20-0	18-10	16-6	13-11	17-1	15-0	12-7	15-11	13-11	11-9	15-0	13-1	11-0	14-3	12-5	10-6	13-7	11-10	10-0	
		24	23-9	20-9	17-6	16-6	14-5	12-2	15-0	13-1	11-0	13-11	12-2	10-3	13-1	11-5	9-8	12-5	10-10	9-2	11-7	10-5	8-9	
CSJ	18	12	31-2	27-3	23-0	21-8	18-11	15-11	19-8	17-2	14-6	18-3	15-11	13-5	17-2	15-0	12-8	16-4	14-3	12-0	15-7	13-8	11-6	
		16	28-4	24-9	20-11	19-8	17-2	14-6	17-10	15-7	13-2	16-7	14-6	12-3	15-7	13-8	11-6	14-10	12-11	10-11	14-2	12-5	10-5	
		24	24-9	21-8	18-3	17-2	15-0	12-8	15-7	13-8	11-6	14-6	12-8	10-8	13-8	11-11	10-0	12-11	11-4	9-6	12-5	10-10	9-1	
CSW	18	12	32-9	28-7	24-2	22-9	19-10	16-9	20-8	18-0	15-3	19-2	16-9	14-1	18-0	15-9	13-3	17-2	15-0	12-7	16-5	14-4	12-1	
		16	29-9	26-0	21-11	20-8	18-0	15-3	18-9	16-5	13-10	17-5	15-3	12-10	16-5	14-4	12-1	15-7	13-7	11-6	14-11	13-0	11-0	
		24	26-0	22-9	19-2	18-0	15-9	13-3	16-5	14-4	12-1	15-3	13-3	11-2	14-4	12-6	10-6	13-7	11-10	10-0	13-0	11-4	9-7	
CWN	16	12	32-1	28-0	23-8	22-3	19-5	16-5	20-3	17-8	14-11	18-9	16-5	13-10	17-8	15-5	13-0	16-9	14-8	12-4	16-0	14-0	11-10	
		16	29-2	25-6	21-6	20-3	17-8	14-11	18-4	16-0	13-6	17-1	14-11	12-7	16-0	14-0	11-10	15-3	13-4	11-3	14-7	12-9	10-9	
		24	25-6	22-3	18-9	17-8	15-5	13-0	16-0	14-0	11-10	14-11	13-0	11-0	14-0	12-3	10-4	13-4	11-8	9-10	12-9	11-1	9-5	
CSJ	16	12	33-6	29-3	24-8	23-3	20-3	17-1	21-1	18-5	15-6	19-7	17-1	14-5	18-5	16-1	13-7	17-6	15-3	12-11	16-9	14-7	12-4	
		16	30-5	26-7	22-5	21-1	18-5	15-6	19-2	16-9	14-1	17-9	15-6	13-1	16-9	14-7	12-4	15-11	13-11	11-9	15-3	13-3	11-3	
		24	26-7	23-3	19-7	18-5	16-1	13-7	16-9	14-7	12-4	15-6	13-7	11-5	14-7	12-9	10-9	13-11	12-2	10-3	13-3	11-7	9-9	
CSW	16	12	35-2	30-9	25-11	24-5	21-4	18-0	22-2	19-4	16-4	20-7	18-0	15-2	19-4	16-11	14-3	18-5	16-1	13-7	17-7	15-4	13-0	
		16	32-0	27-11	23-7	22-2	19-4	16-4	20-2	17-7	14-10	18-8	16-4	13-9	17-7	15-4	13-0	16-9	14-7	12-4	16-0	14-0	11-9	
		24	27-11	24-5	20-7	19-4	16-11	14-3	17-7	15-4	13-0	16-4	14-3	12-0	15-4	13-5	11-4	14-7	12-9	10-9	14-0	12-2	10-3	
CWN	14	12	34-4	30-0	25-4	23-10	20-10	17-7	21-8	18-11	15-11	20-1	17-7	14-10	18-11	16-6	13-11	18-0	15-8	13-3	17-2	15-0	12-8	
		16	31-3	27-3	23-0	21-8	18-11	15-11	19-8	17-2	14-6	18-3	15-11	13-5	17-2	15-0	12-8	16-4	14-3	12-0	15-7	13-8	11-6	
		24	27-3	23-10	20-1	18-11	16-6	13-11	17-2	15-0	12-8	15-11	13-11	11-9	15-0	13-1	11-1	14-3	12-5	10-6	13-8	11-11	10-1	
CSJ	14	12	35-11	31-4	26-5	24-11	21-9	18-4	22-7	19-9	16-8	21-0	18-4	15-6	19-9	17-3	14-7	18-9	16-5	13-10	17-11	15-8	13-3	
		16	32-7	28-6	24-0	22-7	19-9	16-8	20-6	17-11	15-2	19-1	16-8	14-1	17-11	15-8	13-3	17-0	14-11	12-7	16-4	14-3	12-0	
		24	28-6	24-11	21-0	19-9	17-3	14-7	17-11	15-8	13-3	16-8	14-7	12-3	15-8	13-8	11-7	14-11	13-0	11-0	14-3	12-5	10-6	
CSW	14	12	37-9	33-0	27-10	26-2	22-10	19-3	23-9	20-9	17-6	22-1	19-3	16-3	20-9	18-2	15-4	19-9	17-3	14-6	18-10	16-6	13-11	
		16	34-3	29-11	25-3	23-9	20-9	17-6	21-7	18-10	15-11	20-1	17-6	14-9	18-10	16-6	13-11	17-11	15-8	13-2	17-2	15-0	12-8	
		24	29-11	26-2	22-1	20-9	18-2	15-4	18-10	16-6	13-11	17-6	15-4	12-11	16-6	14-5	12-2	15-8	13-8	11-6	15-0	13-1	11-0	
CSJ	12	12	39-11	34-10	29-5	27-8	24-2	20-5	25-2	21-11	18-6	23-4	20-5	17-2	21-11	19-2	16-2	20-10	18-3	15-4	19-11	17-5	14-8	
		16	36-3	31-8	26-8	25-2	21-11	18-6	22-10	19-11	16-10	21-2	18-6	15-7	19-11	17-5	14-8	18-11	16-7	14-0	18-1	15-10	13-4	
		24	31-8	27-8	23-4	21-11	19-2	16-2	19-11	17-5	14-8	18-6	16-2	13-8	17-5	15-3	12-10	16-7	14-6	12-2	15-10	13-10	11-8	
CSW	12	12	42-0	36-8	30-11	29-2	25-5	21-6	26-6	23-1	19-6	24-7	21-6	18-1	23-1	20-2	17-0	22-0	19-2	16-2	21-0	18-4	15-6	
		16	38-2	33-4	28-1	26-6	23-1	19-6	24-0	21-0	17-9	22-4	19-6	16-5	21-0	18-4	15-6	19-11	17-5	14-8	19-1	16-8	14-1	
		24	33-4	29-2	24-7	23-1	20-2	17-0	21-0	18-4	15-6	19-6	17-0	14-4	18-4	16-0	13-6	17-5	15-3	12-10	16-8	14-7	12-3	

NOTE: Reference Wind Load Notes page 16.

Physical Structural Properties--6" C Studs

CODE	MEMBER						GROSS SECTION PROPERTIES							EFFECTIVE SECTION PROPERTIES						TORSIONAL PROPERTIES				
	GAGE	Flange (in.)	Lip (in.)	Design Thickness (in.)	Minimum Delivered Thickness (in.)	Weight (lb./ft.)	Area (in. ²)	I _x (in. ⁴)	S _x (in. ³)	R _x (in.)	I _y (in. ⁴)	S _y (in. ³)	R _y (in.)	33 KSI			50 KSI			X ₀ (in.)	J _x 1000 (in. ⁴)	C _w (in. ⁶)	R ₀ (in.)	β BETA
														I _x (in. ⁴)	S _x (in. ³)	M _x (in.-lb.)	I _x (in. ⁴)	S _x (in. ³)	M _x (in.-lb.)					
CWN	20	1-3/8	3/8	0.0346	0.0329	1.047	0.320	1.597	0.532	2.234	0.070	0.065	0.466	1.597	0.513	10145				-0.820	0.128	0.496	2.425	0.886
	18	1-3/8	3/8	0.0451	0.0428	1.351	0.413	2.043	0.681	2.224	0.087	0.082	0.460	2.043	0.681	15016				-0.812	0.279	0.625	2.412	0.887
	16	1-3/8	3/8	0.0566	0.0538	1.682	0.514	2.519	0.840	2.214	0.105	0.098	0.452	2.519	0.840	18991	2.519	0.819	27587	-0.804	0.550	0.758	2.398	0.888
	14	1-3/8	3/8	0.0713	0.0677	2.091	0.639	3.094	1.031	2.200	0.125	0.117	0.443	3.094	1.031	24034	3.094	1.031	35649	-0.793	1.082	0.911	2.380	0.889
CSJ	20	1-5/8	1/2	0.0346	0.0329	1.132	0.346	1.808	0.603	2.286	0.118	0.097	0.583	1.808	0.538	11516				-1.088	0.138	0.855	2.598	0.825
	18	1-5/8	1/2	0.0451	0.0428	1.461	0.447	2.316	0.772	2.277	0.148	0.123	0.577	2.316	0.772	16764				-1.080	0.302	1.082	2.585	0.826
	16	1-5/8	1/2	0.0566	0.0538	1.821	0.557	2.862	0.954	2.268	0.181	0.149	0.570	2.862	0.954	21175	2.862	0.928	30753	-1.071	0.595	1.318	2.572	0.826
	14	1-5/8	1/2	0.0713	0.0677	2.266	0.693	3.524	1.175	2.255	0.218	0.180	0.561	3.524	1.174	26767	3.524	1.174	39811	-1.061	1.173	1.595	2.555	0.828
	12	1-5/8	1/2	0.1017	0.0966	3.174	0.970	4.841	1.614	2.234	0.287	0.237	0.544	4.841	1.613	38533	4.841	1.613	57017	-1.034	3.344	2.102	2.521	0.832
	10	1-5/8	1/2	0.1242	0.1180	3.833	1.171	5.773	1.924	2.220	0.333	0.275	0.533	5.773	1.924	47354	5.773	1.924	69858	-1.013	6.025	2.423	2.498	0.835
CSW	20	2	5/8	0.0346	0.0329	1.246	0.381	2.090	0.697	2.343	0.211	0.148	0.745	2.051	0.610	12049				-1.474	0.152	1.583	2.867	0.736
	18	2	5/8	0.0451	0.0428	1.609	0.492	2.683	0.894	2.336	0.268	0.188	0.739	2.683	0.874	17261				-1.467	0.333	2.011	2.855	0.736
	16	2	5/8	0.0566	0.0538	2.006	0.613	3.322	1.107	2.327	0.329	0.230	0.732	3.322	1.107	24082	3.322	1.004	30057	-1.459	0.656	2.462	2.842	0.737
	14	2	5/8	0.0713	0.0677	2.499	0.764	4.099	1.366	2.316	0.400	0.280	0.723	4.099	1.366	30395	4.099	1.337	44391	-1.448	1.293	2.995	2.826	0.737
	12	2	5/8	0.1017	0.0966	3.507	1.072	5.656	1.885	2.297	0.536	0.375	0.707	5.656	1.885	43625	5.656	1.885	64788	-1.421	3.694	3.995	2.792	0.741
	10	2	5/8	0.1242	0.1180	4.239	1.296	6.762	2.254	2.284	0.628	0.440	0.696	6.762	2.253	53499	6.762	2.253	79242	-1.399	6.663	4.646	2.768	0.744
CSE	20	2-1/2	5/8	0.0346	0.0329	1.359	0.415	2.399	0.800	2.403	0.359	0.206	0.930	2.267	0.636	12577				-1.905	0.166	2.650	3.204	0.647
	18	2-1/2	5/8	0.0451	0.0428	1.756	0.537	3.082	1.027	2.396	0.458	0.263	0.923	3.064	0.918	18149				-1.897	0.363	3.377	3.193	0.647
	16	2-1/2	5/8	0.0566	0.0538	2.192	0.670	3.822	1.274	2.389	0.563	0.323	0.917	3.822	1.159	22909	3.636	1.069	32018	-1.889	0.716	4.148	3.180	0.647
	14	2-1/2	5/8	0.0713	0.0677	2.733	0.835	4.726	1.575	2.379	0.688	0.395	0.908	4.726	1.522	33141	4.667	1.343	40195	-1.878	1.414	5.068	3.164	0.648
	12	2-1/2	5/8	0.1017	0.0966	3.840	1.174	6.540	2.180	2.361	0.932	0.535	0.891	6.540	2.179	49029	6.540	2.090	70069	-1.851	4.045	6.818	3.130	0.650
	10	2-1/2	5/8	0.1242	0.1180	4.646	1.420	7.834	2.611	2.349	1.100	0.631	0.880	7.834	2.610	59976	7.834	2.589	88453	-1.828	7.302	7.981	3.104	0.653
CSS	20	3	1	0.0346	0.0329	1.557	0.476	2.831	0.944	2.439	0.656	0.340	1.174	2.489	0.634	12533				-2.619	0.190	5.724	3.767	0.516
	18	3	1	0.0451	0.0428	2.014	0.616	3.644	1.215	2.433	0.841	0.435	1.169	3.436	0.997	19704				-2.613	0.417	7.317	3.756	0.516
	16	3	1	0.0566	0.0538	2.516	0.769	4.526	1.509	2.426	1.039	0.537	1.162	4.486	1.366	26999	4.308	1.262	37788	-2.605	0.822	9.020	3.745	0.516
	14	3	1	0.0713	0.0677	3.141	0.960	5.608	1.869	2.417	1.279	0.661	1.154	5.608	1.841	36376	5.597	1.701	50920	-2.596	1.625	11.072	3.730	0.516
	12	3	1	0.1017	0.0966	4.422	1.351	7.790	2.597	2.401	1.753	0.906	1.139	7.790	2.595	57233	7.790	2.564	84479	-2.570	4.658	15.030	3.697	0.517
	10	3	1	0.1242	0.1180	5.357	1.637	9.353	3.118	2.390	2.085	1.077	1.129	9.353	3.115	69959	9.353	3.115	104299	-2.547	8.420	17.708	3.671	0.519
CSX	20	3-1/2	1	0.0346	0.0329	1.670	0.511	3.139	1.046	2.480	0.939	0.423	1.356	2.661	0.652	12876				-3.085	0.204	8.130	4.184	0.456
	18	3-1/2	1	0.0451	0.0428	2.162	0.661	4.043	1.348	2.474	1.205	0.543	1.351	3.697	1.044	20634				-3.079	0.447	10.408	4.174	0.456
	16	3-1/2	1	0.0566	0.0538	2.701	0.826	5.026	1.675	2.467	1.492	0.671	1.344	4.863	1.442	28491	4.643	1.324	39634	-3.071	0.883	12.851	4.163	0.456
	14	3-1/2	1	0.0713	0.0677	3.374	1.031	6.234	2.078	2.459	1.840	0.827	1.336	6.234	1.947	38465	6.070	1.760	52689	-3.062	1.746	15.806	4.148	0.455
	12	3-1/2	1	0.1017	0.0966	4.754	1.453	8.675	2.892	2.443	2.533	1.138	1.320	8.675	2.888	62765	8.675	2.537	75972	-3.036	5.008	21.543	4.115	0.456
	10	3-1/2	1	0.1242	0.1180	5.763	1.761	10.425	3.475	2.433	3.022	1.358	1.310	10.425	3.473	76680	10.425	3.336	110054	-3.013	9.059	25.455	4.088	0.457

6" Track

TSB	20	1-1/4" LEG	0.0346	0.0329	0.956	0.292	1.393	0.459	2.183	0.034	0.032	0.340	1.239	0.326	6435				-0.524	0.117	0.231	2.271	0.947
	18	1-1/4" LEG	0.0451	0.0428	1.242	0.379	1.808	0.594	2.183	0.043	0.041	0.338	1.688	0.505	9970				-0.522	0.257	0.298	2.270	0.947
	16	1-1/4" LEG	0.0566	0.0538	1.557	0.476	2.267	0.742	2.183	0.054	0.052	0.336	2.206	0.671	13257				-0.520	0.509	0.371	2.269	0.948
	14	1-1/4" LEG	0.0713	0.0677	1.953	0.597	2.843	0.926	2.182	0.067	0.064	0.334	2.843	0.891	17611				-0.517	1.011	0.461	2.267	0.948
	12	1-1/4" LEG	0.1017	0.0966	2.778	0.849	4.050	1.306	2.184	0.092	0.089	0.328	4.050	1.305	29367				-0.509	2.926	0.643	2.267	0.950
	10	1-1/4" LEG	0.1242	0.1180	3.389	1.036	4.955	1.586	2.187	0.109	0.107	0.324	4.955	1.585	36426				-0.501	5.327	0.773	2.267	0.951

NOTE: Reference typical notes on page 4.