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BEAMS AND HEADERS

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ALLOWABLE UNIFORM FLOOR LOADS (plf) – 100%

WIDTH (in.)	DEPTH (in.)	CRITERIA	SPAN (ft)												
			6	8	10	12	14	16	18	20	22	24	26	28	30
1-ply 1-3/4	9-1/2	L/480 LL		488	250	145	91	61	43	31	---	---	---	---	---
		L/360 LL		651	333	193	122	81	57	42	---	---	---	---	---
		L/240 TL	933	654	417	285	178	118	82	58	---	---	---	---	---
		End/Int. B.	2.7/6.7	2.6/5.9	2.1/4.7	1.7/3.8	1.5/3	1.5/3	1.5/3	1.5/3	---	---	---	---	---
	11-7/8	L/480 LL		488	283	178	119	84	61	46	35	28	---	---	---
		L/360 LL		651	377	237	159	112	81	61	47	37	---	---	---
		L/240 TL	1250	859	653	452	331	233	162	117	87	66	51	---	---
		End/Int. B.	3.6/9	3.3/8.3	3.2/7.9	2.7/6.6	2.3/5.3	1.9/4.2	1.5/3.3	1.5/3	1.5/3	1.5/3	1.5/3	---	---
	14	L/480 LL		463	292	195	137	100	75	58	46	36	30	---	---
		L/360 LL		618	389	261	183	133	100	77	61	49	40	---	---
		L/240 TL	1575	1059	797	629	461	351	269	194	144	110	85	67	53
		End/Int. B.	4.6/11.3	4.1/10.2	3.9/9.6	3.7/9.1	3.2/7.8	2.8/6.9	2.4/5.6	2/4.4	1.6/3.6	1.5/3	1.5/3	1.5/3	1.5/3
	16	L/480 LL		691	435	292	205	149	112	86	68	54	44	---	---
		L/360 LL		858	538	356	247	179	129	99	79	63	51	---	---
		L/240 TL	1924	1266	942	750	603	460	362	292	218	166	129	102	82
		End/Int. B.	5.6/13.8	4.9/12.2	4.6/11.3	4.4/10.9	4.1/10.2	3.6/8.9	3.2/8	2.9/7.2	2.4/5.6	2/4.6	1.7/3.9	1.5/3.3	1.5/3
	18	L/480 LL		820	515	340	233	167	123	97	77	63	51	---	---
		L/360 LL		1054	661	435	292	205	149	112	86	68	54	44	---
		L/240 TL	2326	1492	1098	867	716	583	459	370	305	238	186	147	118
		End/Int. B.	6.7/16.7	5.8/14.3	5.3/13.2	5/12.5	4.9/12.1	4.5/11.3	4/10	3.6/9	3.3/8.2	2.9/7.1	2.4/5.7	2.1/4.8	1.8/4.2
2-ply 1-3/4 or 3-1/2	9-1/2	L/480 LL		977	500	289	182	122	86	63	47	36	---	---	---
		L/360 LL		1302	667	386	243	163	114	83	63	48	---	---	---
		L/240 TL	1865	1308	834	571	356	236	163	117	86	64	---	---	---
		End/Int. B.	2.7/6.7	2.6/5.9	2.1/4.7	1.7/3.8	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	---	---	---
	11-7/8	L/480 LL		977	565	356	238	167	122	92	71	56	44	36	---
		L/360 LL		1302	754	475	318	223	163	122	94	74	59	48	---
		L/240 TL	2499	1717	1306	904	661	467	325	234	173	131	101	79	62
		End/Int. B.	3.6/9	3.3/8.3	3.2/7.9	2.7/6.6	2.3/5.3	1.9/4.2	1.5/3.3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3
	14	L/480 LL		926	583	391	274	200	150	116	91	73	59	---	---
		L/360 LL		1235	778	521	366	267	200	154	121	97	79	---	---
		L/240 TL	3149	2119	1595	1258	921	703	537	388	289	220	170	134	107
		End/Int. B.	4.6/11.3	4.1/10.2	3.9/9.6	3.7/9.1	3.2/7.8	2.8/6.9	2.4/5.6	2/4.4	1.6/3.6	1.5/3	1.5/3	1.5/3	1.5/3
	16	L/480 LL		1383	871	583	410	299	224	173	136	109	88	---	---
		L/360 LL		1811	1161	778	546	398	299	230	181	145	118	---	---
		L/240 TL	3848	2532	1885	1500	1205	920	724	584	435	332	258	204	163
		End/Int. B.	5.6/13.8	4.9/12.2	4.6/11.3	4.4/10.9	4.1/10.2	3.6/8.9	3.2/8	2.9/7.2	2.4/5.6	2/4.6	1.7/3.9	1.5/3.3	1.5/3
	18	L/480 LL		1240	831	583	425	319	246	194	155	126	---	---	---
		L/360 LL		1617	1107	778	567	426	328	258	207	168	---	---	---
		L/240 TL	4651	2985	2195	1735	1433	1166	918	741	605	477	372	295	237
		End/Int. B.	6.7/16.7	5.8/14.3	5.3/13.2	5/12.5	4.9/12.1	4.5/11.3	4/10	3.6/9	3.3/8.2	2.9/7.1	2.4/5.7	2.1/4.8	1.8/4.2

See notes on page 3.

24F-1.9E

ALLOWABLE UNIFORM FLOOR LOADS (plf) – 100% (continued)

WIDTH (in.)	DEPTH (in.)	CRITERIA	SPAN (ft)												
			6	8	10	12	14	16	18	20	22	24	26	28	30
3-ply 1-3/4 or 5-1/2	9-1/2	L/480 LL		1465	750	434	273	183	129	94	70	54	43	34	---
		L/360 LL		1954	1000	579	365	244	172	125	94	72	57	46	---
		L/240 TL	2798	1962	1251	856	535	354	245	175	129	96	73	56	---
		End/Int. B.	2.7/6.7	2.6/5.9	2.1/4.7	1.7/3.8	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	---
	11-7/8	L/480 LL			1465	848	534	358	251	183	138	106	83	67	54
		L/360 LL			1954	1131	712	477	335	244	183	141	111	89	72
		L/240 TL	3749	2576	1959	1356	992	700	487	351	260	197	152	118	93
		End/Int. B.	3.6/9	3.3/8.3	3.2/7.9	2.7/6.6	2.3/5.3	1.9/4.2	1.5/3.3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3
	14	L/480 LL				1389	875	586	412	300	225	174	137	109	89
		L/360 LL				1853	1167	782	549	400	301	232	182	146	119
		L/240 TL	4724	3178	2392	1888	1382	1054	806	582	433	330	255	201	160
		End/Int. B.	4.6/11.3	4.1/10.2	3.9/9.6	3.7/9.1	3.2/7.8	2.8/6.9	2.4/5.6	2/4.4	1.6/3.6	1.5/3	1.5/3	1.5/3	1.5/3
	16	L/480 LL				2074	1306	875	615	448	337	259	204	163	133
		L/360 LL					1741	1167	819	597	449	346	272	218	177
		L/240 TL	5773	3798	2827	2250	1808	1374	1068	852	653	498	387	306	245
		End/Int. B.	5.6/13.8	4.9/12.2	4.6/11.3	4.4/10.9	4.1/10.2	3.6/8.9	3.2/7.8	2.8/7	2.4/5.6	2/4.6	1.7/3.9	1.5/3.3	1.5/3
	18	L/480 LL					1860	1246	875	638	479	369	290	232	189
		L/360 LL						1661	1167	851	639	492	387	310	252
		L/240 TL	6977	4477	3293	2602	2149	1721	1339	1069	871	715	558	442	355
		End/Int. B.	6.7/16.7	5.8/14.3	5.3/13.2	5/12.5	4.9/12.1	4.5/11.1	3.9/9.8	3.5/8.7	3.2/7.9	2.9/7.1	2.4/5.7	2.1/4.8	1.8/4.2
4-ply 1-3/4 or 7	9-1/2	L/480 LL		1954	1000	579	365	244	172	125	94	72	57	46	37
		L/360 LL		2605	1334	772	486	326	229	167	125	96	76	61	49
		L/240 TL	3730	2616	1669	1142	713	472	327	234	172	129	98	75	58
		End/Int. B.	2.7/6.7	2.6/5.9	2.1/4.7	1.7/3.8	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3
	11-7/8	L/480 LL		1954	1131	712	477	335	244	183	141	111	89	72	---
		L/360 LL		2605	1507	949	636	447	326	245	188	148	119	96	---
		L/240 TL	4999	3434	2612	1808	1323	934	650	468	347	262	202	158	125
		End/Int. B.	3.6/9	3.3/8.3	3.2/7.9	2.7/6.6	2.3/5.3	1.9/4.2	1.5/3.3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3
	14	L/480 LL				1853	1167	782	549	400	301	232	182	146	119
		L/360 LL				2470	1556	1042	732	534	401	309	243	194	158
		L/240 TL	6299	4237	3189	2517	1832	1378	1071	777	577	439	340	268	213
		End/Int. B.	4.6/11.3	4.1/10.2	3.9/9.6	3.7/9.1	3.1/7.8	2.7/6.7	2.4/5.5	2/4.4	1.6/3.6	1.5/3	1.5/3	1.5/3	1.5/3
	16	L/480 LL				2765	1741	1167	819	597	449	346	272	218	177
		L/360 LL					2322	1556	1093	796	598	461	363	290	236
		L/240 TL	7697	5064	3769	3000	2364	1779	1383	1103	870	664	517	408	327
		End/Int. B.	5.6/13.8	4.9/12.2	4.6/11.3	4.4/10.9	4/10	3.5/8.7	3.1/7.6	2.7/6.8	2.4/5.6	2/4.6	1.7/3.9	1.5/3.3	1.5/3
	18	L/480 LL					2480	1661	1167	851	639	492	387	310	252
		L/360 LL						2215	1556	1134	852	656	516	413	336
		L/240 TL	9303	5969	4390	3469	2866	2229	1734	1384	1127	934	744	589	473
		End/Int. B.	6.7/16.7	5.8/14.3	5.3/13.2	5/12.5	4.9/12.1	4.4/10.8	3.8/9.5	3.4/8.5	3.1/7.6	2.8/6.9	2.4/5.7	2.1/4.8	1.8/4.2

NOTES:

- Values shown are the maximum uniform loads, in pounds per lineal foot (plf), that can be applied to the beam in addition to its own weight.
- Selected beam shall satisfy both live (LL) and total (TL) loads. When no value is shown in the live load row, the total load governs the design.
- Table is based on uniform loads and the most restrictive of simple or continuous spans, and dry-use conditions. Span is measured center to center of supports. The maximum uniform loads are based on a load duration factor, C_D , of 1.00 (floor load).
- Maximum deflection = L/480 or L/360 under live load, and L/240 under total load. Other deflection limits may apply.
- Table values assume that lateral support is provided at each support and continuously along the compression edge of the beam.
- Multiple pieces may be used when properly connected. For 3-ply 1-3/4 or 5-1/2-inch beams, the tabulated values are based on a net width of 5-1/4 inches. For 5-1/2-inch beams, the tabulated values may be increased by 5%.
- Sufficient bearing length shall be provided at supports. Review bearing length requirements (shown in inches) to ensure adequacy.

ALLOWABLE UNIFORM ROOF LOADS (plf) – 115% and 125%

WIDTH (in.)	DEPTH (in.)	CRITERIA	SPAN (ft)												
			6	8	10	12	14	16	18	20	22	24	26	28	30
1-ply 1-3/4	9-1/2	L/240 LL			500	289	182	122	86	63	47	---	---	---	---
		115%, TL	1073	753	480	332	239	159	110	79	59	---	---	---	---
		125%, TL	1167	819	522	362	239	159	110	79	59	---	---	---	---
		End/Int. B.	3.4/8.4	3.2/7.9	2.6/5.9	2.1/4.9	1.7/3.7	1.5/3	1.5/3	1.5/3	1.5/3	---	---	---	---
	11-7/8	L/240 LL			565	356	238	167	122	92	71	56	44	---	---
		115%, TL	1438	988	752	520	381	291	218	158	117	89	69	54	---
		125%, TL	1563	1074	818	566	415	313	218	158	117	89	69	54	---
		End/Int. B.	4.5/11.3	4.2/10.3	4/9.8	3.3/8.2	2.8/7	2.5/5.7	2/4.5	1.6/3.6	1.5/3	1.5/3	1.5/3	1.5/3	---
	14	L/240 LL						391	274	200	150	116	91	73	59
		115%, TL	1812	1219	918	725	531	405	319	257	194	148	115	91	73
		125%, TL	1970	1326	998	788	577	441	347	261	194	148	115	91	73
		End/Int. B.	5.7/14.2	5.1/12.7	4.8/12	4.6/11.4	3.9/9.8	3.5/8.6	3.1/7.6	2.6/6	2.1/4.9	1.8/4.1	1.6/3.4	1.5/3	1.5/3
	16	L/240 LL							410	299	224	173	136	109	88
		115%, TL	2214	1457	1085	863	694	530	417	337	277	224	174	138	111
		125%, TL	2407	1584	1180	939	755	577	454	367	292	224	174	138	111
		End/Int. B.	6.9/17.3	6.1/15.2	5.7/14.2	5.5/13.6	5.1/12.7	4.5/11.2	4/9.9	3.6/8.9	3.2/7.9	2.7/6.6	2.3/5.3	2/4.5	1.7/3.9
	18	L/240 LL								425	319	246	194	155	126
		115%, TL	2676	1717	1263	999	825	672	529	427	352	294	250	199	160
		125%, TL	2909	1867	1374	1086	898	731	576	465	383	320	250	199	160
		End/Int. B.	8.4/20.9	7.2/17.9	6.6/16.5	6.3/15.7	6.1/15.1	5.7/14.1	5/12.5	4.5/11.3	4.1/10.3	3.8/9.4	3.2/8	2.8/6.9	2.4/5.7
2-ply 1-3/4 or 3-1/2	9-1/2	L/240 LL			1000	579	365	244	172	125	94	72	57	46	---
		115%, TL	2146	1505	961	665	478	318	221	159	117	88	68	53	---
		125%, TL	2333	1637	1045	723	478	318	221	159	117	88	68	53	---
		End/Int. B.	3.4/8.4	3.2/7.9	2.6/5.9	2.1/4.9	1.7/3.7	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	---
	11-7/8	L/240 LL				1131	712	477	335	244	183	141	111	89	72
		115%, TL	2876	1976	1503	1041	762	581	437	316	235	178	138	109	86
		125%, TL	3127	2149	1635	1132	829	626	437	316	235	178	138	109	86
		End/Int. B.	4.5/11.3	4.2/10.3	4/9.8	3.3/8.2	2.8/7	2.5/5.7	2/4.5	1.6/3.6	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3
	14	L/240 LL						782	549	400	301	232	182	146	119
		115%, TL	3624	2438	1836	1449	1061	810	637	514	389	297	231	183	146
		125%, TL	3940	2651	1996	1576	1155	881	694	522	389	297	231	183	146
		End/Int. B.	5.7/14.2	5.1/12.7	4.8/12	4.6/11.4	3.9/9.8	3.5/8.6	3.1/7.6	2.6/6	2.1/4.9	1.8/4.1	1.6/3.4	1.5/3	1.5/3
	16	L/240 LL							819	597	449	346	272	218	177
		115%, TL	4428	2914	2169	1727	1388	1060	834	673	554	447	349	277	222
		125%, TL	4814	3168	2359	1878	1510	1153	908	733	585	447	349	277	222
		End/Int. B.	6.9/17.3	6.1/15.2	5.7/14.2	5.5/13.6	5.1/12.7	4.5/11.2	4/9.9	3.6/8.9	3.2/7.9	2.7/6.6	2.3/5.3	2/4.5	1.7/3.9
	18	L/240 LL								851	639	492	387	310	252
		115%, TL	5351	3435	2527	1997	1650	1343	1058	854	698	579	487	398	321
		125%, TL	5818	3735	2748	2172	1795	1461	1151	930	760	631	501	398	321
		End/Int. B.	8.4/20.9	7.2/17.9	6.6/16.5	6.3/15.7	6.1/15.1	5.7/14.1	5/12.5	4.5/11.3	4.1/10.2	3.7/9.3	3.2/8	2.8/6.9	2.4/5.7

See notes on page 5.

24F-1.9E

ALLOWABLE UNIFORM ROOF LOADS (plf) – 115% and 125% (continued)

WIDTH (in.)	DEPTH (in.)	CRITERIA	SPAN (ft)												
			6	8	10	12	14	16	18	20	22	24	26	28	30
3-ply 1-3/4 or 5-1/2	9-1/2	L/240 LL			1500	868	547	366	257	188	141	109	85	68	56
		115%, TL	3219	2258	1441	997	717	476	331	238	176	133	102	79	62
		125%, TL	3500	2456	1567	1085	717	476	331	238	176	133	102	79	62
		End/Int. B.	3.4/8.4	3.2/7.9	2.6/5.9	2.1/4.9	1.7/3.7	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3
	11-7/8	L/240 LL			1696	1068	715	502	366	275	212	167	133	109	
		115%, TL	4314	2964	2255	1561	1143	872	655	473	352	267	207	163	130
		125%, TL	4690	3223	2453	1699	1244	939	655	473	352	267	207	163	130
		End/Int. B.	4.5/11.3	4.2/10.3	4/9.8	3.3/8.2	2.8/7	2.5/5.7	2/4.5	1.6/3.6	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3
	14	L/240 LL					1172	823	600	451	347	273	219	178	
		115%, TL	5435	3657	2753	2174	1592	1215	954	761	583	445	346	274	219
		125%, TL	5910	3977	2994	2364	1732	1322	1038	782	583	445	346	274	219
		End/Int. B.	5.7/14.2	5.1/12.7	4.8/12	4.6/11.4	3.9/9.8	3.5/8.6	3.1/7.6	2.6/6	2.1/4.9	1.8/4.1	1.6/3.4	1.5/3	1.5/3
	16	L/240 LL						1229	896	673	519	408	327	265	
		115%, TL	6642	4370	3254	2590	2082	1583	1232	983	801	664	523	415	334
		125%, TL	7221	4752	3539	2817	2265	1723	1341	1071	873	671	523	415	334
		End/Int. B.	6.9/17.3	6.1/15.2	5.7/14.2	5.5/13.6	5.1/12.7	4.5/11.1	3.9/9.8	3.5/8.7	3.2/7.8	2.7/6.6	2.3/5.3	2/4.5	1.7/3.9
	18	L/240 LL							1276	958	738	581	465	378	
		115%, TL	8027	5152	3790	2996	2475	1983	1543	1232	1005	833	701	596	481
		125%, TL	8727	5602	4122	3258	2693	2157	1679	1342	1094	908	751	597	481
		End/Int. B.	8.4/20.9	7.2/17.9	6.6/16.5	6.3/15.7	6.1/15.1	5.6/13.9	4.9/12.2	4.4/10.9	4/9.8	3.6/8.9	3.2/8	2.8/6.9	2.4/5.7
4-ply 1-3/4 or 7	9-1/2	L/240 LL			2001	1158	729	488	343	250	188	145	114	91	74
		115%, TL	4292	3011	1921	1329	956	635	441	317	234	177	136	105	83
		125%, TL	4667	3274	2090	1446	956	635	441	317	234	177	136	105	83
		End/Int. B.	3.4/8.4	3.2/7.9	2.6/5.9	2.1/4.9	1.7/3.7	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3
	11-7/8	L/240 LL			2261	1424	954	670	488	367	283	222	178	145	
		115%, TL	5751	3953	3007	2082	1524	1159	873	631	469	357	276	217	173
		125%, TL	6253	4298	3270	2265	1659	1252	873	631	469	357	276	217	173
		End/Int. B.	4.5/11.3	4.2/10.3	4/9.8	3.3/8.2	2.8/7	2.5/5.7	2/4.5	1.6/3.6	1.5/3	1.5/3	1.5/3	1.5/3	1.5/3
	14	L/240 LL					1563	1098	800	601	463	364	292	237	
		115%, TL	7247	4876	3671	2898	2110	1588	1235	985	778	594	462	365	292
		125%, TL	7879	5302	3993	3152	2295	1728	1344	1043	778	594	462	365	292
		End/Int. B.	5.7/14.2	5.1/12.7	4.8/12	4.6/11.4	3.9/9.7	3.4/8.4	3/7.4	2.6/6	2.1/4.9	1.8/4.1	1.6/3.4	1.5/3	1.5/3
	16	L/240 LL						1639	1195	898	691	544	435	354	
		115%, TL	8856	5827	4339	3454	2723	2050	1595	1273	1037	859	698	553	445
		125%, TL	9628	6336	4719	3757	2962	2231	1736	1386	1130	895	698	553	445
		End/Int. B.	6.9/17.3	6.1/15.2	5.7/14.2	5.5/13.6	5/12.5	4.4/10.8	3.8/9.5	3.4/8.5	3.1/7.6	2.7/6.6	2.3/5.3	2/4.5	1.7/3.9
	18	L/240 LL							1701	1278	984	774	620	504	
		115%, TL	10703	6869	5054	3994	3300	2568	1999	1596	1301	1078	907	772	641
		125%, TL	11636	7469	5496	4344	3590	2794	2175	1737	1417	1175	988	796	641
		End/Int. B.	8.4/20.9	7.2/17.9	6.6/16.5	6.3/15.7	6.1/15.1	5.4/13.5	4.8/11.9	4.3/10.6	3.8/9.5	3.5/8.7	3.2/7.9	2.8/6.9	2.4/5.7

NOTES:

- Values shown are the maximum uniform loads, in pounds per lineal foot (plf), that can be applied to the beam in addition to its own weight.
- Selected beam shall satisfy both live (LL) and total (TL) loads. When no value is shown in the live load row, the total load governs the design.
- Table is based on uniform loads and the most restrictive of simple or continuous spans, and dry-use conditions. Span is measured center to center of supports. The maximum uniform loads are based on a load duration factor, C_D , of 1.15 (snow load) or 1.25 (construction load).
- Maximum deflection = L/240 under live load, and L/180 under total load. Other deflection limits may apply. For deflection limit of L/360 or L/480, use the appropriate value from the Allowable Uniform Floor Loads table. The resulting live load shall not exceed the total load shown.
- Table values assume that lateral support is provided at each support and continuously along the compression edge of the beam.
- Multiple pieces may be used when properly connected. For 3-ply 1-3/4 or 5-1/2-inch beams, the tabulated values are based on a net width of 5-1/4 inches. For 5-1/2-inch beams, the tabulated values may be increased by 5%.
- Sufficient bearing length shall be provided at supports. Review bearing length requirements (shown in inches) to ensure adequacy.

DESIGN VALUES FOR NORDIC LAM™



DESIGN PROPERTIES (1,2,3)

APPLICATION	BEAMS AND HEADERS
APPEARANCE GRADE	INDUSTRIAL
STRESS GRADE	24F-1.9E
EWS LAYUP	24F-E/ES1M1
Bending About X-X Axis	
Bending at Extreme Fiber (F_{bx}) ^(4,5)	2400 psi
Longitudinal Shear (F_{vx}) ⁽⁶⁾	250 psi
Compression Perpendicular to Grain (F_{cpx})	600 psi
Shear-Free Modulus of Elasticity (E_x)	1.9E+06 psi
Apparent Modulus of Elasticity ($E_{x,app}$) ⁽⁷⁾	1.8E+06 psi
Bending About Y-Y Axis	
Bending at Extreme Fiber (F_{by}) ⁽⁸⁾	1100 psi
Longitudinal Shear (F_{vy}) ⁽⁶⁾	175 psi
Compression Perpendicular to Grain (F_{cpy})	300 psi
Shear-Free Modulus of Elasticity (E_y)	1.6E+06 psi
Apparent Modulus of Elasticity ($E_{y,app}$) ⁽⁷⁾	1.5E+06 psi
Axially Loaded	
Compression Parallel to Grain (F_c)	1150 psi
Tension Parallel to Grain (F_t)	1050 psi
Modulus of Elasticity (E_a) ⁽⁷⁾	1.6E+06 psi
Specific Gravity	0.41
Density (for Member Weight)	35 pcf

- (1) The combinations in this table are applicable to members consisting of 4 or more laminations, unless otherwise noted.
- (2) The tabulated design values are for dry conditions of use. For wet conditions of use, multiply the tabulated values by the wet service factors, C_{Mw} , per ANSI/AWC NDS-2012, 5.3.3.
- (3) The tabulated design values are for normal duration of loading. For other durations of loading, see applicable design code (ANSI/AWC NDS-2012, 2.3.2 and Chapter 5).
- (4) Nordic Lam bending members are symmetrical throughout the depth of the member (balanced layups).
- (5) The tabulated design values in bending, F_{bx} , shall be multiplied by a volume factor, C_v . The volume factor formula is:

$$C_v = (12/d)^{1/10} \times (5.125/b)^{1/10} \times (21/L)^{1/10} \leq 1.0$$
 where d = beam depth (in.), b = beam width (in.), and L = beam length (ft).
- (6) For non-prismatic members, notched members, members subject to impact or cyclic loading, or shear design of bending members at connections (ANSI/AWC NDS-2012, 3.4.3.3), the design value for shear (F_{vx} and F_{vy}) shall be multiplied by a factor of 0.72.
- (7) The tabulated apparent E values already include a 5% shear deflection. For beam stability and column stability calculations, E_{min} shall be determined by multiplying the tabulated apparent modulus of elasticity by 0.528.
- (8) The F_{by} values shall be permitted to be increased by multiplying by the size factor, $(12/d)^{1/9}$, where d is the beam depth in inches.
- (9) Design of glulam members shall be in accordance to National Design Specification, 2012 Edition.

Refer to Nordic Lam Design and Construction Guide for more information.
 Nordic Lam products are listed in APA Product Report PR-L294.



Sustainable Wood Solutions

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