

Notes for the following Allowable PLF Load Tables (pages 13-15):

1. Floor Systems are designed using $LDF=1.0$. The Live Load Deflection Limit is $1/360$ and the Total Load Deflection Limit is $1/240$.
2. Roof Systems are designed using $LDF=1.15$ or 1.25 . The Live Load Deflection Limit is $1/240$ and the Total Load Deflection Limit is $1/180$.
3. The top line of each table indicates the allowable load carrying capacity in pounds per lineal foot (plf) with a deflection limit based on the total load and includes the weight of the member. (blue)
4. The middle line of each table indicates the allowable load carrying capacity in pounds per lineal foot (plf) with a deflection limit based on the live load. (green)
5. The bottom line of each table indicates the bearing length in inches: 1.5" is one trimmer, 3.0" is two trimmers, 4.5" is three trimmers, etc. (red)
6. Each table shows spans from 6 to 32 feet and includes information for 1-ply, 2-ply and 3-ply conditions.
7. Values provided are the maximum uniform loads in pounds per lineal foot (plf) that can be applied to the beam in addition to its own weight. Allowable plf loads are based on the minimum bearing length required to carry the load. This required bearing length is then converted to the least number of 1.5"-wide trimmers that can be used.
8. Interpolation between clear openings is permitted.
9. For live load deflection factors of $L/180$ and $L/360$, multiply the Maximum Live Load figure (row 2) by 1.333 and 0.667, respectively. The result shall not exceed the total load.
10. Design span is assumed to be the clear opening plus $1/2$ the actual required bearing length at each end.
11. The bearing lengths show the number of trimmers required at each end of the header or beam based on the maximum plf loads. Shorter bearing lengths may be required with lighter loads, and longer bearing lengths may be required because of the material on which the header or beam is bearing.
12. These tables are for gravity loads only. Consult a professional engineer for wind and seismic load analysis and design.
13. All tables are based on uniform load conditions. Any concentrated load applications must be analyzed separately or converted to an equivalent uniform load.
14. The compression edge of the header or beam must be laterally supported at intervals of 24" or less. In addition, lateral support must be provided at bearing points.
15. Allowable total and live plf loads used to select a header or beam must be equal to or greater than the actual plf loads applied.

Allowable Loads for Master Plank in Pounds per Lineal Foot - Load Duration Factor of 1.00 for Floor Load Conditions

Clear Opening	3-1/2" - 1 Ply									5-1/4" - 2 Ply [3-1/2" with 1-3/4"]									7" - 2 Ply											
	7-1/4			9-1/4			11-1/4			11-7/8			Depth (in.)	7-1/4			9-1/4			11-1/4			11-7/8			Depth (in.)				
	7-1/4	8	9-1/4	9-1/2	11-1/4	11-7/8	14	16	18	24	7-1/4	8		9-1/4	9-1/2	11-1/4	11-7/8	14	16	18	24	7-1/4	8	9-1/4	9-1/2		11-1/4	11-7/8	14	16
6'	1767	2120	2774	2914	3986	4402	5692	7157	8948	16205	2650	3180	4161	4371	5979	6603	8538	10736	13422	24308	4064	4877	6184	6411	8130	8805	11385	11850	14816	29647
7'	1297	1556	2036	2139	2926	3234	4387	5503	6708	11902	1945	2334	3054	3209	4389	4852	6581	8254	10062	17852	2727	3580	4685	4923	6541	7048	8941	9111	11106	19754
8'	912	1190	1558	1636	2239	2474	3357	4299	5347	8944	1367	1785	2336	2455	3358	3712	5035	6448	8020	13416	1823	2452	3584	3766	5151	5694	7360	7398	8880	14807
9'	639	859	1229	1292	1767	1953	2650	3394	4222	7152	958	1289	1844	1937	2651	2930	3975	5091	6333	10728	1278	1719	2661	2884	4067	4495	6099	6227	7396	11839
10'	464	625	968	1045	1430	1581	2145	2747	3417	5823	697	938	1453	1567	2145	2371	3217	4121	5126	8735	929	1250	1937	2099	3291	3638	4936	5375	6336	9861
11'	348	468	726	787	1180	1305	1771	2269	2822	4810	521	702	1089	1180	1771	1958	2657	3403	4233	7215	695	937	1452	1574	2619	3004	4076	4537	5541	8447
12'	267	359	558	605	991	1095	1487	1905	2370	4039	400	539	837	907	1486	1643	2230	2857	3554	6059	533	719	1115	1209	2014	2371	3422	3809	4739	7387
13'	209	282	437	474	790	931	1265	1621	2017	3439	313	422	656	711	1186	1396	1898	2432	3026	5159	417	563	875	948	1581	1861	2913	3242	4034	6563
14'	166	224	349	378	631	743	1090	1396	1738	2963	249	337	523	567	947	1115	1635	2095	2606	4445	332	449	698	757	1263	1487	2444	2793	3475	5903
15'	134	181	282	306	512	603	948	1215	1512	2579	201	272	424	460	768	904	1422	1822	2268	3869	268	363	565	613	1024	1206	1983	2430	3024	5158
16'	110	148	232	251	420	495	815	1067	1327	2265	164	223	347	377	631	743	1223	1600	1991	3397	219	297	463	503	841	991	1631	2133	2655	4530
17'	91	123	192	208	349	412	678	944	1175	2004	136	184	288	313	524	617	1017	1415	1762	3007	181	246	384	417	698	823	1357	1887	2349	4009
18'	76	103	161	175	293	346	570	840	1046	1786	113	154	241	262	439	518	855	1261	1569	2679	151	205	322	349	586	691	1140	1681	2093	3572
19'	63	86	136	147	248	293	483	725	938	1601	95	130	204	221	372	439	725	1087	1407	2402	127	173	272	295	496	585	966	1449	1876	3203
20'	54	73	116	126	212	250	413	620	845	1444	81	110	173	188	317	375	619	929	1268	2165	107	147	231	251	423	499	826	1239	1690	2887
21'	46	63	99	108	182	215	355	534	763	1308	69	94	148	161	273	322	533	801	1145	1962	91	125	198	215	363	429	711	1068	1527	2616
22'	39	54	85	93	157	186	308	463	662	1190	59	81	128	139	236	278	462	694	993	1785	78	108	170	185	314	371	616	926	1324	2380
23'	34	46	74	80	136	161	268	404	578	1088	50	70	111	120	205	242	402	606	867	1631	67	93	148	161	273	323	536	807	1156	2175
24'	29	40	64	70	119	141	235	354	507	998	44	60	96	105	179	212	352	531	761	1496	58	80	128	140	238	282	470	708	1015	1995
25'	25	35	56	61	105	124	207	312	447	918	38	52	84	92	157	186	310	468	671	1377	50	70	112	122	209	248	413	624	895	1836
26'	22	30	49	54	92	109	183	276	396	848	33	46	74	80	138	164	274	414	595	1271	44	61	98	107	184	218	365	552	793	1695
27'	19	27	43	47	81	97	162	245	353	785	28	40	65	71	122	145	243	368	529	1177	38	53	86	94	163	193	324	491	705	1569
28'	16	23	38	42	72	86	144	219	315	729	25	35	57	62	108	129	217	328	472	1093	33	47	76	83	144	172	289	438	630	1457
29'	14	20	34	37	64	76	129	196	282	678	21	31	51	55	96	115	194	294	423	1017	29	41	67	74	128	153	258	392	564	1356
30'	12	18	30	33	57	68	116	176	254	614	19	27	45	49	86	102	173	264	381	921	25	36	60	65	115	137	231	352	508	1228
32'	9	14	23	26	46	55	94	143	207	503	14	21	35	39	69	82	140	215	310	755	19	28	47	52	92	110	187	286	414	1006

See notes on page 12.