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 1.25 Construction Loads

Clear Opening	3-1/2" - 1 Ply										5-1/4" - 2 Ply [3-1/2" with 1-3/4"]										7" - 2 Ply									
	Depth (in.)										Depth (in.)										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	18	24
6′	2209	2651	3469	3644	4984	5505	7118	8949	11188	20261	3314	3977	5203	5467	7476	8257	10677	13424	16782	30391	5083	6099	7733	8017	10167	11010	14235	14818	18526	37067
	2173	2651	3469	3644	4984	5505	7118	8949	11188	20261	3259	3977	5203	5467	7476	8257	10677	13424	16782	30391	4345	5838	7733	8017	10167	11010	14235	14818	18526	37067
	3	3	4.5	4.5	6	6	9	10.5	13.5	27	3	3	4.5	4.5	6	6	9	10.5	13.5	27	3	4.5	4.5	4.5	6	6	9	9	10.5	24
7′	1622	1946	2547	2676	3660	4045	5487	6881	8388	14881	2433	2920	3820	4014	5490	6068	8230	10322	12582	22322	3639	4478	5860	6156	8180	8814	11181	11394	13888	24701
	1368	1838	2547	2676	3660	4045	5487	6881	8388	14881	2052	2757	3820	4014	5490	6068	8230	10322	12582	22322	2736	3676	5683	6156	8180	8814	11181	11394	13888	24701
	3	3	4.5	4.5	4.5	6	7.5	9	12	21	3	3	4.5	4.5	4.5	6	7.5	9	12	21	3	3	4.5	4.5	6	6	7.5	7.5	9	18
8′	1217	1489	1948	2047	2800	3095	4198	5376	6686	11184	1826	2233	2923	3071	4200	4643	6298	8064	10030	16776	2434	3273	4483	4710	6443	7121	9204	9253	11106	18517
	917	1231	1904	2047	2800	3095	4198	5376	6686	11184	1375	1847	2855	3071	4200	4643	6298	8064	10030	16776	1833	2463	3807	4124	6443	7121	9204	9253	11106	18517
	3	3	3	3	4.5	4.5	6	9	10.5	18	3	3	3	3	4.5	4.5	6	9	10.5	18	3	3	4.5	4.5	4.5	6	7.5	7.5	9	15
9′	853	1148	1538	1616	2211	2444	3315	4246	5281	8944	1280	1722	2307	2424	3316	3666	4973	6368	7921	13416	1707	2296	3540	3719	5087	5623	7628	7789	9251	14807
	644	865	1337	1448	2211	2444	3315	4246	5281	8944	966	1297	2005	2173	3316	3666	4973	6368	7921	13416	1287	1730	2674	2897	4810	5623	7628	7789	9251	14807
	1.5	3	3	3	4.5	4.5	6	7.5	9	15	1.5	3	3	3	4.5	4.5	6	7.5	9	15	1.5	3	3	3	4.5	4.5	6	7.5	7.5	13.5
10′	621	835	1245	1308	1789	1978	2684	3437	4275	7283	931	1253	1867	1962	2684	2967	4025	5155	6412	10925	1242	1670	2587	2803	4118	4552	6175	6724	7926	12334
	469	631	975	1056	1753	1978	2684	3437	4275	7283	704	946	1462	1584	2630	2967	4025	5155	6412	10925	939	1261	1949	2112	3507	4124	6175	6724	7926	12334
	1.5	1.5	3	3	4.5	4.5	6	6	7.5	13.5	1.5	1.5	3	3	4.5	4.5	6	6	7.5	13.5	1.5	1.5	3	3	4.5	4.5	6	6	7.5	12
11′	465	626	970	1051	1477	1633	2216	2839	3531	6016	698	939	1455	1577	2216	2450	3324	4258	5296	9025	930	1252	1940	2102	3400	3759	5100	5677	6932	10567
	353	474	732	793	1317	1549	2216	2839	3531	6016	529	711	1098	1190	1976	2324	3324	4258	5296	9025	705	947	1465	1587	2635	3099	5078	5677	6932	10567
	1.5	1.5	3	3	3	4.5	4.5	6	7.5	12	1.5	1.5	3	3	3	4.5	4.5	6	7.5	12	1.5	1.5	3	3	4.5	4.5	6	6	7.5	10.5
12′	357	481	746	808	1240	1371	1861	2383	2965	5053	536	722	1119	1212	1860	2057	2791	3575	4447	7579	714	962	1492	1616	2691	3156	4282	4767	5930	9242
	272	365	564	611	1015	1193	1861	2383	2965	5053	407	547	846	917	1522	1790	2791	3575	4447	7579	543	730	1128	1222	2029	2387	3911	4767	5930	9242
	1.5	1.5	1.5	3	3	3	4.5	6	7.5	12	1.5	1.5	1.5	3	3	3	4.5	6	7.5	12	1.5	1.5	1.5	3	3	4.5	4.5	6	7.5	10.5
13′	280	377	585	634	1056	1167	1584	2029	2525	4303	420	566	878	951	1583	1751	2376	3044	3787	6455	560	754	1170	1269	2113	2487	3646	4058	5049	8212
	214	287	444	481	798	939	1538	2029	2525	4303	320	430	665	721	1197	1408	2307	3044	3787	6455	427	574	887	961	1596	1877	3076	4058	5049	8212
	1.5	1.5	1.5	1.5	3	3	4.5	4.5	6	10.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	6	10.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	6	10.5
14′	223	301	467	507	844	994	1365	1748	2175	3708	335	451	701	760	1267	1491	2047	2622	3263	5562	446	602	935	1013	1689	1988	3141	3496	4350	7387
	171	230	355	385	639	752	1231	1748	2175	3708	257	345	533	577	959	1127	1847	2622	3263	5562	342	460	710	770	1278	1503	2463	3496	4350	7387
	1.5	1.5	1.5	1.5	3	3	4.5	4.5	6	9	1.5	1.5	1.5	1.5	3	3	4.5	4.5	6	9	1.5	1.5	1.5	1.5	3	3	4.5	4.5	6	9
15′	180	244	379	411	685	807	1187	1521	1893	3228	271	365	568	616	1028	1210	1781	2282	2840	4842	361	487	758	821	1370	1613	2651	3043	3786	6456
	139	187	289	313	520	611	1001	1495	1893	3228	209	280	433	469	779	917	1502	2242	2840	4842	278	374	578	626	1039	1222	2002	2989	3786	6456
	1.5	1.5	1.5	1.5	3	3	3	4.5	6	9	1.5	1.5	1.5	1.5	3	3	3	4.5	6	9	1.5	1.5	1.5	1.5	3	3	4.5	4.5	6	9
16′	148	200	311	337	563	663	1042	1336	1662	2835	222	300	466	506	845	995	1564	2004	2494	4253	296	400	622	674	1126	1326	2181	2672	3325	5670
	115	154	238	258	428	503	825	1231	1662	2835	172	231	357	387	642	755	1237	1847	2494	4253	229	308	476	516	856	1007	1650	2463	3325	5670
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	9	1.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	9	1.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	9
17′	122	166	258	280	468	552	908	1182	1471	2510	184	249	387	420	702	827	1361	1773	2207	3764	245	331	516	560	936	1103	1815	2364	2942	5019
	96	128	198	215	357	420	688	1027	1462	2510	143	193	298	322	535	630	1032	1540	2193	3764	191	257	397	430	714	839	1376	2053	2924	5019
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	7.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	7.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	4.5	7.5
18′	102	139	217	235	393	463	763	1053	1311	2237	154	208	325	352	590	695	1145	1580	1966	3355	205	277	433	470	786	927	1526	2106	2622	4473
	80	108	167	181	301	354	579	865	1231	2237	121	162	251	272	451	530	869	1297	1847	3355	161	216	334	362	601	707	1159	1730	2463	4473
	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	4.5	7.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	4.5	7.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	4.5	7.5
19′	86	117	183	199	333	393	647	944	1175	2006	129	176	275	298	500	589	971	1416	1763	3009	173	234	366	398	666	786	1295	1888	2351	4012
	68	92	142	154	256	301	493	735	1047	2006	103	138	213	231	383	451	739	1103	1571	3009	137	184	284	308	511	601	985	1471	2094	4012
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	7.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	7.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	7.5
20′	73	100	156	170	285	336	554	830	1060	1809	110	149	234	254	427	503	831	1245	1589	2713	147	199	312	339	569	671	1107	1660	2119	3617
	59	79	122	132	219	258	422	631	898	1809	88	118	183	198	329	387	634	946	1347	2713	117	158	244	264	438	516	845	1261	1796	3617
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	7.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	7.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	7.5
21′	63	85	134	146	245	289	477	715	960	1639	94	128	201	218	367	433	715	1073	1440	2458	125	171	268	291	490	578	954	1431	1920	3278
	51	68	105	114	189	223	365	545	776	1639	76	102	158	171	284	334	547	817	1163	2458	101	136	210	228	379	445	730	1089	1551	3278
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	6	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	6	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	6
22′	54	74	116	126	212	250	414	621	874	1492	81	110	174	189	318	375	620	931	1310	2238	108	147	232	251	424	500	827	1241	1747	2984
	44	59	92	99	165	194	317	474	674	1492	66	89	137	149	247	291	476	711	1012	2238	88	118	183	198	329	387	635	947	1349	2984
	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	6	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	6	1.5	1.5	1.5	1.5	1.5	1.5	3	3	4.5	6
23′	46	64	101	109	184	218	361	542	775	1364	70	95	151	164	277	327	541	813	1162	2045	93	127	201	218	369	436	722	1084	1550	2727
	39	52	80	87	144	169	278	415	590	1364	58	78	120	130	216	254	417	622	885	2045	77	104	160	174	288	339	555	829	1181	2727
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	6
24′	40	55	88	95	161	191	316	476	680	1251	60	83	132	143	242	286	475	713	1021	1876	81	111	175	191	323	382	633	951	1361	2502
	34	46	71	76	127	149	244	365	520	1231	51	68	106	115	190	224	367	547	779	1847	68	91	141	153	254	298	489	730	1039	2463
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	6
25′	35	48	77	84	142	168	279	420	601	1152	53	73	115	125	213	252	418	629	901	1727	70	97	154	167	284	336	558	839	1201	2303
	30	40	62	68	112	132	216	323	460	1090	45	61	94	101	168	198	324	484	689	1634	60	81	125	135	224	264	433	646	919	2179
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	6
26′	31	42	68	74	125	148	247	372	533	1064	46	64	101	110	188	223	370	558	799	1595	61	85	135	147	251	297	494	744	1065	2127
	27	36	55	60	100	117	192	287	409	969	40	54	83	90	150	176	288	430	613	1453	53	72	111	120	200	235	385	574	817	1937
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	3	6
27′	27	37	60	65	111	132	219	331	474	985	40	56	90	98	167	197	329	496	711	1478	54	75	119	130	222	263	439	662	949	1970
	24	32	50	54	89	105	172	256	365	865	36	48	74	80	134	157	258	384	547	1297	48	64	99	107	178	210	343	513	730	1730
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5
28′	24	33	53	58	99	117	196	295	424	915	35	49	79	86	148	176	294	443	636	1372	47	66	106	115	198	234	391	591	848	1830
	21	29	44	48	80	94	154	230	327	776	32	43	67	72	120	141	231	345	491	1163	43	57	89	96	160	188	308	460	654	1551
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5
29′	21	29	47	51	88	105	175	265	380	852	31	44	70	77	132	157	263	397	571	1277	41	58	94	103	176	209	350	530	761	1703
	19	26	40	43	72	85	139	207	294	698	29	39	60	65	108	127	208	310	442	1047	38	52	80	87	144	169	277	414	589	1396
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5
30′	18	26	42	46	79	94	157	238	342	795	27	39	63	69	118	141	236	357	514	1192	36	51	84	91	158	188	315	476	685	1589
	17	23	36	39	65	76	125	187	266	631	26	35	54	59	97	115	188	280	399	946	35	47	72	78	130	153	250	374	532	1261
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5
32′	14	20	33	36	64	76	128	194	280	676	21	30	50	55	96	114	192	292	420	1015	28	40	67	73	127	152	256	389	560	1353
	14	19	30	32	54	63	103	154	219	520	21	29	45	48	80	94	155	231	329	779	28	38	59	64	107	126	206	308	438	1039
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.5

See notes on page 12.