



**ALLOWABLE FLOOR LOADS [PLF] LDF = 1.0 24F V3 V5/M1 1.8E**

This Table can be used to size simple span beams and headers supporting uniform loading. The PLF loads must be calculated and include all floor and roof framing loads on beams & headers

**Key:** For each clear span there are three numbers  
**Row 1:** Maximum Total Load with LDF=1.0 & deflection limit=l/240  
**Row 2:** Maximum Live Load limited by deflection =l/360  
**Row 3:** Required Bearing Length in trimmer thickness  
 (e.g., 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc)

Allowable Loads in Pounds per Linear Foot										
SPAN	8 1/2" WIDTH									
	Depth (in.)									
	24	24 3/4	26 1/8	27 1/2	28 7/8	30 1/4	31 5/8	33	34 3/8	35 3/4
26	1746	1855	2065	2285	2516	2758	3011	3275	3549	3834
	1486	1629	1916	2235	2516	2758	3011	3275	3549	3834
	4.5	4.5	4.5	6	6	6	7.5	7.5	7.5	9
27	1612	1713	1907	2110	2324	2548	2782	3025	3279	3543
	1327	1455	1711	1996	2310	2548	2782	3025	3279	3543
	4.5	4.5	4.5	6	6	6	6	7.5	7.5	9
28	1492	1586	1766	1954	2152	2360	2577	2803	3038	3282
	1190	1305	1534	1789	2072	2360	2577	2803	3038	3282
	4.5	4.5	4.5	4.5	6	6	6	7.5	7.5	7.5
29	1385	1472	1639	1814	1999	2191	2393	2603	2822	3049
	1071	1174	1381	1611	1865	2144	2393	2603	2822	3049
	4.5	4.5	4.5	4.5	6	6	6	6	7.5	7.5
30	1288	1370	1525	1688	1860	2040	2227	2423	2627	2839
	967	1061	1247	1455	1684	1937	2213	2423	2627	2839
	4.5	4.5	4.5	4.5	4.5	6	6	6	7.5	7.5
31	1201	1277	1422	1575	1735	1903	2078	2261	2451	2649
	877	961	1131	1319	1526	1755	2005	2261	2451	2649
	3	4.5	4.5	4.5	4.5	6	6	6	7.5	7.5
32	1122	1193	1329	1472	1622	1779	1943	2114	2292	2477
	797	874	1028	1199	1388	1596	1823	2072	2292	2477
	3	4.5	4.5	4.5	4.5	6	6	6	6	7.5
33	1036	1117	1244	1378	1518	1666	1820	1980	2147	2321
	727	797	937	1093	1265	1455	1662	1889	2135	2321
	3	3	4.5	4.5	4.5	4.5	6	6	6	7.5
34	943	1037	1167	1292	1424	1563	1707	1858	2015	2178
	664	729	857	999	1157	1330	1520	1727	1952	2178
	3	3	4.5	4.5	4.5	4.5	6	6	6	6
35	860	946	1096	1214	1339	1469	1605	1747	1894	2048
	609	668	786	916	1061	1219	1393	1583	1789	2013
	3	3	4.5	4.5	4.5	4.5	6	6	6	6
36	786	865	1024	1143	1260	1382	1511	1644	1784	1929
	560	614	722	842	975	1121	1281	1455	1644	1850
	3	3	3	4.5	4.5	4.5	4.5	6	6	6
37	719	793	939	1077	1187	1303	1424	1551	1682	1819
	516	565	665	776	898	1032	1179	1340	1515	1704
	3	3	3	4.5	4.5	4.5	4.5	6	6	6
38	660	727	862	1012	1121	1230	1345	1464	1589	1718
	476	522	614	716	829	953	1089	1237	1398	1573
	3	3	3	4.5	4.5	4.5	4.5	6	6	6
39	606	669	793	932	1059	1163	1271	1384	1502	1675
	440	483	568	662	767	881	1007	1144	1293	1455
	3	3	3	3	4.5	4.5	4.5	4.5	6	6
40	558	616	731	859	1001	1101	1203	1311	1422	1538
	408	447	526	614	711	817	934	1061	1199	1349
	3	3	3	3	4.5	4.5	4.5	4.5	6	6
42	475	524	623	734	856	990	1082	1179	1280	1384
	352	387	455	530	614	706	806	916	1036	1165
	3	3	3	3	3	4.5	4.5	4.5	4.5	6
44	406	449	534	630	736	853	977	1065	1156	1251
	307	336	395	461	534	614	701	797	901	1013
	1.5	3	3	3	3	3	4.5	4.5	4.5	4.5
46	349	386	460	544	636	738	850	966	1049	1135
	268	294	346	404	467	537	614	697	788	887
	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5
48	300	333	398	471	552	641	739	847	955	1034
	236	259	305	355	411	473	540	614	694	780
	1.5	1.5	3	3	3	3	3	4.5	4.5	4.5
50	260	288	346	410	481	560	646	741	844	944
	209	229	269	314	364	418	478	543	614	690
	1.5	1.5	1.5	3	3	3	3	3	4.5	4.5
52	225	250	301	357	420	490	566	650	741	841
	186	204	240	279	323	372	425	483	546	614
	1.5	1.5	1.5	1.5	3	3	3	3	4.5	4.5