

# Allowable Uniform Loads

# 2.1E Beam-Floor 100%

## ALLOWABLE UNIFORM LOADS\* – POUNDS PER LINEAL FOOT

## ONE x 1 3/4" 2.1E PWLVL

Span (ft)	Key	3 1/2"	5 1/2"	7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 1/2"	14"
6	LL	86	333	762	-	-	-	-	-
	TL	127	497	763	1028	1063	1325	1425	1796
	BRG	1.5/3	1.5/3	1.5/3.9	2.1/5.2	2.2/5.4	2.7/6.7	2.9/7.2	3.6/9.1
7	LL	54	210	480	-	-	-	-	-
	TL	71	278	636	849	877	1083	1161	1445
	BRG	1.5/3	1.5/3	1.5/3.8	2/5	2.1/5.2	2.6/6.4	2.7/6.9	3.4/8.5
8	LL	-	140	322	668	724	-	-	-
	TL	-	162	374	723	746	916	979	1208
	BRG	-	1.5/3	1.5/3	2/4.9	2/5	2.5/6.2	2.6/6.6	3.3/8.2
9	LL	-	99	226	469	508	-	-	-
	TL	-	100	232	629	649	793	846	1038
	BRG	-	1.5/3	1.5/3	1.9/4.8	2/4.9	2.4/6	2.6/6.4	3.2/7.9
10	LL	-	-	-	342	370	615	724	-
	TL	-	65	151	509	551	699	745	909
	BRG	-	1.5/3	1.5/3	1.7/4.3	1.9/4.7	2.4/5.9	2.5/6.3	3.1/7.7
11	LL	-	-	-	257	278	462	544	-
	TL	-	44	102	381	413	625	665	809
	BRG	-	1.5/3	1.5/3	1.5/3.6	1.5/3.9	2.3/5.8	2.5/6.2	3/7.5
12	LL	-	-	-	198	214	356	419	686
	TL	-	-	71	293	317	529	586	729
	BRG	-	-	1.5/3	1.5/3	1.5/3.2	2.2/5.4	2.4/6	3/7.4
13	LL	-	-	-	156	169	280	329	540
	TL	-	-	51	229	249	415	489	663
	BRG	-	-	1.5/3	1.5/3	1.5/3	1.8/4.6	2.2/5.4	2.9/7.3
14	LL	-	-	-	125	135	224	264	432
	TL	-	-	37	183	198	331	390	578
	BRG	-	-	1.5/3	1.5/3	1.5/3	1.6/4	1.9/4.7	2.8/6.9
15	LL	-	-	-	101	110	182	214	351
	TL	-	-	-	148	160	268	316	503
	BRG	-	-	-	1.5/3	1.5/3	1.5/3.4	1.6/4.1	2.6/6.4
16	LL	-	-	-	83	90	150	177	289
	TL	-	-	-	121	131	220	260	428
	BRG	-	-	-	1.5/3	1.5/3	1.5/3	1.5/3.6	2.3/5.8
17	LL	-	-	-	70	75	125	147	241
	TL	-	-	-	100	109	183	216	356
	BRG	-	-	-	1.5/3	1.5/3	1.5/3	1.5/3.2	2.1/5.2
18	LL	-	-	-	59	64	105	124	203
	TL	-	-	-	84	91	153	181	299
	BRG	-	-	-	1.5/3	1.5/3	1.5/3	1.5/3	1.8/4.6
19	LL	-	-	-	54	54	90	105	173
	TL	-	-	-	77	77	129	153	253
	BRG	-	-	-	-	1.5/3	1.5/3	1.5/3	1.7/4.1
20	LL	-	-	-	-	77	90	148	-
	TL	-	-	-	-	110	130	216	-
	BRG	-	-	-	-	1.5/3	1.5/3	1.5/3	1.5/3.7
21	LL	-	-	-	-	66	78	128	-
	TL	-	-	-	-	95	112	186	-
	BRG	-	-	-	-	1.5/3	1.5/3	1.5/3	1.5/3.4
22	LL	-	-	-	-	58	68	111	-
	TL	-	-	-	-	82	97	161	-
	BRG	-	-	-	-	1.5/3	1.5/3	1.5/3	1.5/3.1
23	LL	-	-	-	-	-	59	97	-
	TL	-	-	-	-	-	84	140	-
	BRG	-	-	-	-	-	1.5/3	1.5/3	1.5/3
24	LL	-	-	-	-	-	-	86	-
	TL	-	-	-	-	-	-	122	-
	BRG	-	-	-	-	-	-	1.5/3	-
25	LL	-	-	-	-	-	-	76	-
	TL	-	-	-	-	-	-	107	-
	BRG	-	-	-	-	-	-	1.5/3	-
26	LL	-	-	-	-	-	-	67	-
	TL	-	-	-	-	-	-	95	-
	BRG	-	-	-	-	-	-	1.5/3	-
27	LL	-	-	-	-	-	-	60	-
	TL	-	-	-	-	-	-	84	-
	BRG	-	-	-	-	-	-	1.5/3	-
28	LL	-	-	-	-	-	-	54	-
	TL	-	-	-	-	-	-	75	-
	BRG	-	-	-	-	-	-	1.5/3	-
29	LL	-	-	-	-	-	-	-	-
	TL	-	-	-	-	-	-	-	-
	BRG	-	-	-	-	-	-	-	-
30	LL	-	-	-	-	-	-	-	-
	TL	-	-	-	-	-	-	-	-
	BRG	-	-	-	-	-	-	-	-

\* Can be applied to the beam in addition to its own weight.  
Simple or multiple beam spans.

2 plies minimum for depths greater than 14 inches.

Wax-based sealer applied to mitigate moisture issues associated with wood products during storage and construction.

### Key to Table:

LL = Maximum live load - limits deflection to L/360

TL = Maximum total load - limits deflections to L/240 (or a maximum of 0.3125" for beams 7 1/4" deep or less)

BRG = Required end / intermediate bearing length (inches), based on bearing stress of 850 psi.

# Allowable Uniform Loads

# 2.1E Beam-Floor 100%

## ALLOWABLE UNIFORM LOADS\* – POUNDS PER LINEAL FOOT

## TWO x 1 3/4" 2.1E PWLVL

Span (ft)	Key	3 1/2"	5 1/2"	7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 1/2"	14"	16"	18"	20"	22"	24"
6	LL	172	666	1525	-	-	-	-	-	-	-	-	-	-
	TL	254	993	1526	2056	2127	2650	2850	3591	4388	5304	6366	7613	8997
	BRG	1.5/3	1.5/3	1.5/3.9	2.1/5.2	2.2/5.4	2.7/6.7	2.9/7.2	3.6/9.1	4.4/11.1	5.4/13.4	6.4/16.1	7.7/19.2	9.1/22.7
7	LL	108	419	960	-	-	-	-	-	-	-	-	-	-
	TL	141	556	1272	1698	1754	2166	2322	2889	3484	4147	4893	5736	6634
	BRG	1.5/3	1.5/3	1.5/3.8	2/5	2.1/5.2	2.6/6.4	2.7/6.9	3.4/8.5	4.1/10.3	4.9/12.2	5.8/14.4	6.8/16.9	7.8/19.6
8	LL	281	643	1336	1447	-	-	-	-	-	-	-	-	-
	TL	324	747	1446	1493	1831	1958	2416	2887	3404	3972	4600	5252	-
	BRG	1.5/3	1.5/3	2/4.9	2/5	2.5/6.2	2.6/6.6	3.3/8.2	3.9/9.8	4.6/11.5	5.4/13.4	6.2/15.5	7.1/17.7	-
9	LL	197	452	938	1016	-	-	-	-	-	-	-	-	-
	TL	200	464	1259	1298	1586	1693	2075	2465	2885	3342	3838	4346	-
	BRG	1.5/3	1.5/3	1.9/4.8	2/4.9	2.4/6	2.6/6.4	3.2/7.9	3.8/9.4	4.4/11	5.1/12.7	5.8/14.6	6.6/16.5	-
10	LL	-	-	684	741	1230	1447	-	-	-	-	-	-	-
	TL	130	302	1018	1103	1398	1490	1819	2150	2504	2884	3292	3705	-
	BRG	1.5/3	1.5/3	1.7/4.3	1.9/4.7	2.4/5.9	2.5/6.3	3.1/7.7	3.6/9.1	4.2/10.6	4.9/12.2	5.6/13.9	6.3/15.7	-
11	LL	-	-	514	557	924	1087	-	-	-	-	-	-	-
	TL	87	204	762	826	1250	1331	1618	1905	2211	2535	2882	3228	-
	BRG	1.5/3	1.5/3	1.5/3.6	1.5/3.9	2.3/5.8	2.5/6.2	3/7.5	3.5/8.9	4.1/10.3	4.7/11.8	5.4/13.4	6/15	-
12	LL	-	-	396	429	712	837	1372	-	-	-	-	-	-
	TL	142	585	635	1058	1172	1457	1711	1979	2262	2562	2860	2860	-
	BRG	1.5/3	1.5/3	1.5/3.2	2.2/5.4	2.4/6	3/7.4	3.5/8.7	4/10.1	4.6/11.5	5.2/13	5.8/14.5	-	-
13	LL	-	-	311	337	560	659	1079	-	-	-	-	-	-
	TL	102	459	497	830	977	1325	1552	1790	2041	2305	2566	2566	-
	BRG	1.5/3	1.5/3	1.5/3	1.8/4.6	2.2/5.4	2.9/7.3	3.4/8.6	3.9/9.9	4.5/11.2	5.1/12.7	5.7/14.1	-	-
14	LL	-	-	249	270	448	527	864	1290	-	-	-	-	-
	TL	74	365	396	662	780	1156	1420	1635	1859	2095	2327	2327	-
	BRG	1.5/3	1.5/3	1.5/3	1.6/4	1.9/4.7	2.8/6.9	3.4/8.4	3.9/9.7	4.4/11	5/12.4	5.5/13.8	-	-
15	LL	-	-	203	220	365	429	703	1049	1493	-	-	-	-
	TL	296	321	537	632	1006	1280	1504	1707	1920	2128	2128	-	-
	BRG	1.5/3	1.5/3	1.5/3.4	1.6/4.1	1.6/4.1	2.6/6.4	3.3/8.2	3.8/9.6	4.3/10.9	4.9/12.2	5.4/13.5	-	-
16	LL	167	300	579	632	1006	1280	1504	1707	1920	2128	2128	-	-
	TL	242	263	440	519	856	1124	1391	1578	1771	1960	1960	-	-
	BRG	1.5/3	1.5/3	1.5/3	1.5/3.6	2.3/5.8	3.1/7.7	3.8/9.5	4.3/10.7	4.8/12	5.3/13.3	-	-	-
17	LL	139	151	250	295	483	720	1026	1407	-	-	-	-	-
	TL	200	218	365	431	711	994	1230	1466	1644	1817	1817	-	-
	BRG	1.5/3	1.5/3	1.5/3	1.5/3.2	2.1/5.2	2.9/7.2	3.6/8.9	4.2/10.6	4.8/11.9	5.3/13.1	-	-	-
18	LL	117	127	211	248	407	607	864	1185	-	-	-	-	-
	TL	168	182	306	361	597	885	1095	1326	1534	1693	1693	-	-
	BRG	1.5/3	1.5/3	1.5/3	1.5/3	1.8/4.6	2.7/6.8	3.4/8.4	4.1/10.2	4.7/11.8	5.2/13	-	-	-
19	LL	108	179	211	346	516	735	1008	1342	-	-	-	-	-
	TL	153	259	306	506	760	981	1188	1412	1584	1584	-	-	-
	BRG	1.5/3	1.5/3	1.5/3	1.5/3	1.7/4.1	2.5/6.2	3.2/8	3.9/9.6	4.6/11.4	5.1/12.8	-	-	-
20	LL	154	181	296	442	630	864	1150	1470	-	-	-	-	-
	TL	220	261	432	649	884	1070	1272	1475	1475	-	-	-	-
	BRG	1.5/3	1.5/3	1.5/3.7	2.2/5.6	3/7.6	3.7/9.1	4.3/10.9	5/12.6	-	-	-	-	-
21	LL	133	156	256	382	544	747	994	1270	-	-	-	-	-
	TL	189	224	371	559	800	969	1152	1336	1336	-	-	-	-
	BRG	1.5/3	1.5/3	1.5/3.4	2/5.1	2.9/7.2	3.5/8.7	4.1/10.3	4.8/12	-	-	-	-	-
22	LL	116	136	223	332	473	649	864	1105	-	-	-	-	-
	TL	163	193	321	484	694	881	1048	1216	1216	-	-	-	-
	BRG	1.5/3	1.5/3	1.5/3.1	1.8/4.6	2.6/6.6	3.3/8.3	3.9/9.9	4.6/11.4	-	-	-	-	-
23	LL	119	195	291	414	568	756	967	1110	-	-	-	-	-
	TL	168	280	422	605	805	957	1110	1110	-	-	-	-	-
	BRG	1.5/3	1.5/3	1.7/4.2	2.4/6	3.2/8	3.8/9.4	4.4/10.9	-	-	-	-	-	-
24	LL	172	256	365	500	666	851	1018	1184	-	-	-	-	-
	TL	245	370	530	732	877	1018	1184	1350	-	-	-	-	-
	BRG	1.5/3	1.5/3.9	2.2/5.5	3/7.6	3.6/9	4.2/10.5	-	-	-	-	-	-	-
25	LL	152	227	323	442	589	753	919	1085	-	-	-	-	-
	TL	215	325	467	646	807	936	1085	1251	-	-	-	-	-
	BRG	1.5/3	1.5/3.6	2/5.1	2.8/7	3.5/8.7	4/10.1	-	-	-	-	-	-	-
26	LL	135	201	287	393	524	669	814	959	-	-	-	-	-
	TL	190	288	414	572	745	864	1018	1172	-	-	-	-	-
	BRG	1.5/3	1.5/3.3	1.9/4.7	2.6/6.4	3.3/8.4	3.9/9.7	-	-	-	-	-	-	-
27	LL	120	180	256	351	468	598	727	856	-	-	-	-	-
	TL	168	255	368	509	681	800	919	1038	-	-	-	-	-
	BRG	1.5/3	1.5/3.1	1.7/4.4	2.4/6	3.2/8	3.7/9.3	-	-	-	-	-	-	-
28	LL	108	161	230	315	419	536	653	770	-	-	-	-	-
	TL	149	227	328	454	609	742	875	1008	-	-	-	-	-
	BRG	1.5/3	1.5/3	1.6/4.1	2.2/5.6	3/7.4	3.6/9	-	-	-	-	-	-	-
29	LL	145	207	283	377	482	599	716	833	-	-	-	-	-
	TL	203	294	407	546	690	833	976	1119	-	-	-	-	-
	BRG	1.5/3	1.5/3.8	2.1/5.2	2.8/6.9	3.5/8.7	-	-	-	-	-	-	-	-
30	LL	131	187	256	341	436	531	626	721	-	-	-	-	-
	TL	182	264	366	491	632	773	914	1055	-	-	-	-	-
	BRG	1.5/3	1.5/3.5	1.9/4.8	2.6/6.4	3.3/8.2	-	-	-	-	-	-	-	-

\* Can be applied to the beam in addition to its own weight. Simple or multiple beam spans.

### Key to Table:

LL = Maximum live load - limits deflection to L/360

TL = Maximum total load - limits deflections to L/240 (or a maximum of 0.3125" for beams 7 1/4" deep or less)

BRG = Required end / intermediate bearing length (inches), based on bearing stress of 850 psi.

# Allowable Uniform Loads

# 2.1E Beam-Floor 100%

## ALLOWABLE UNIFORM LOADS\* – POUNDS PER LINEAL FOOT

## THREE x 1 3/4" 2.1E PWLVL

Span (ft)	Key	3 1/2"	5 1/2"	7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 1/2"	14"	16"	18"	20"	22"	24"
6	LL	257	998	2287	-	-	-	-	-	-	-	-	-	-
	TL	381	1490	2289	3085	3190	3975	4275	5387	6582	7955	9549	11420	13496
	BRG	1.5/3	1.5/3	1.5/3.9	2.1/5.2	2.2/5.4	2.7/6.7	2.9/7.2	3.6/9.1	4.4/11.1	5.4/13.4	6.4/16.1	7.7/19.2	9.1/22.7
7	LL	162	629	1440	-	-	-	-	-	-	-	-	-	-
	TL	212	835	1908	2547	2632	3249	3483	4334	5225	6221	7339	8604	9951
	BRG	1.5/3	1.5/3	1.5/3.8	2/5	2.1/5.2	2.6/6.4	2.7/6.9	3.4/8.5	4.1/10.3	4.9/12.2	5.8/14.4	6.8/16.9	7.8/19.6
8	LL	421	965	2004	2171	-	-	-	-	-	-	-	-	-
	TL	486	1121	2169	2239	2747	2937	3624	4331	5105	5958	6900	7878	-
	BRG	1.5/3	1.5/3	2/4.9	2/5	2.5/6.2	2.6/6.6	3.3/8.2	3.9/9.8	4.6/11.5	5.4/13.4	6.2/15.5	7.1/17.7	-
9	LL	296	678	1407	1525	-	-	-	-	-	-	-	-	-
	TL	301	696	1888	1948	2379	2539	3113	3697	4328	5013	5758	6518	-
	BRG	1.5/3	1.5/3	1.9/4.8	2/4.9	2.4/6	2.6/6.4	3.2/7.9	3.8/9.4	4.4/11	5.1/12.7	5.8/14.6	6.6/16.5	-
10	LL	-	-	1026	1111	1846	2171	-	-	-	-	-	-	-
	TL	195	453	1526	1654	2097	2236	2728	3224	3755	4325	4939	5557	-
	BRG	1.5/3	1.5/3	1.7/4.3	1.9/4.7	2.4/5.9	2.5/6.3	3.1/7.7	3.6/9.1	4.2/10.6	4.9/12.2	5.6/13.9	6.3/15.7	-
11	LL	-	-	771	835	1387	1631	-	-	-	-	-	-	-
	TL	131	306	1144	1240	1875	1996	2427	2858	3316	3803	4323	4842	-
	BRG	1.5/3	1.5/3	1.5/3.6	1.5/3.9	2.3/5.8	2.5/6.2	3/7.5	3.5/8.9	4.1/10.3	4.7/11.8	5.4/13.4	6/15	-
12	LL	-	-	594	643	1068	1256	2058	-	-	-	-	-	-
	TL	-	213	878	952	1587	1758	2186	2566	2968	3393	3843	4289	-
	BRG	-	1.5/3	1.5/3	1.5/3.2	2.2/5.4	2.4/6	3/7.4	3.5/8.7	4/10.1	4.6/11.5	5.2/13	5.8/14.5	-
13	LL	-	-	467	506	840	988	1619	-	-	-	-	-	-
	TL	-	152	688	746	1245	1466	1988	2328	2686	3062	3458	3849	-
	BRG	-	1.5/3	1.5/3	1.5/3	1.8/4.6	2.2/5.4	2.9/7.3	3.4/8.6	3.9/9.9	4.5/11.2	5.1/12.7	5.7/14.1	-
14	LL	-	-	374	405	673	791	1296	1935	-	-	-	-	-
	TL	-	111	548	595	994	1170	1734	2130	2452	2789	3143	3490	-
	BRG	-	1.5/3	1.5/3	1.5/3	1.6/4	1.9/4.7	2.8/6.9	3.4/8.4	3.9/9.7	4.4/11	5/12.4	5.5/13.8	-
15	LL	-	-	304	329	547	643	1054	1573	2240	-	-	-	-
	TL	-	-	443	481	805	949	1508	1921	2255	2561	2880	3192	-
	BRG	-	-	1.5/3	1.5/3	1.5/3.4	1.6/4.1	2.6/6.4	3.3/8.2	3.8/9.6	4.3/10.9	4.9/12.2	5.4/13.5	-
16	LL	-	-	250	271	451	530	868	1296	1846	-	-	-	-
	TL	-	-	363	394	661	779	1284	1685	2086	2367	2657	2940	-
	BRG	-	-	1.5/3	1.5/3	1.5/3	1.5/3.6	2.3/5.8	3.1/7.7	3.8/9.5	4.3/10.7	4.8/12	5.3/13.3	-
17	LL	-	-	209	226	376	442	724	1081	1539	2111	-	-	-
	TL	-	-	301	326	548	647	1067	1490	1845	2200	2466	2725	-
	BRG	-	-	1.5/3	1.5/3	1.5/3	1.5/3.2	2.1/5.2	2.9/7.2	3.6/8.9	4.2/10.6	4.8/11.9	5.3/13.1	-
18	LL	-	-	176	191	316	372	610	910	1296	1778	-	-	-
	TL	-	-	251	273	459	542	896	1327	1643	1988	2300	2539	-
	BRG	-	-	1.5/3	1.5/3	1.5/3	1.5/3	1.8/4.6	2.7/6.8	3.4/8.4	4.1/10.2	4.7/11.8	5.2/13	-
19	LL	-	-	162	269	316	519	774	1102	1512	2012	-	-	-
	TL	-	-	230	388	459	759	1139	1472	1782	2118	2377	-	-
	BRG	-	-	1.5/3	1.5/3	1.5/3	1.5/3	1.7/4.1	2.5/6.2	3.2/8	3.9/9.6	4.6/11.4	5.1/12.8	-
20	LL	-	-	231	271	445	664	945	1296	1725	2205	-	-	-
	TL	-	-	331	391	648	974	1326	1605	1908	2213	-	-	-
	BRG	-	-	1.5/3	1.5/3	1.5/3.7	2.2/5.6	3/7.6	3.7/9.1	4.3/10.9	5/12.6	-	-	-
21	LL	-	-	199	234	384	573	816	1120	1490	1905	-	-	-
	TL	-	-	284	335	557	838	1200	1454	1728	2004	-	-	-
	BRG	-	-	1.5/3	1.5/3	1.5/3.4	2/5.1	2.9/7.2	3.5/8.7	4.1/10.3	4.8/12	-	-	-
22	LL	-	-	173	204	334	499	710	974	1296	1657	-	-	-
	TL	-	-	245	290	482	726	1040	1322	1572	1823	-	-	-
	BRG	-	-	1.5/3	1.5/3	1.5/3.1	1.8/4.6	2.6/6.6	3.3/8.3	3.9/9.9	4.6/11.4	-	-	-
23	LL	-	-	178	292	436	621	852	1134	1450	-	-	-	-
	TL	-	-	251	419	633	907	1207	1436	1665	-	-	-	-
	BRG	-	-	1.5/3	1.5/3	1.5/3	1.7/4.2	2.4/6	3.2/8	3.8/9.4	4.4/10.9	-	-	-
24	LL	-	-	257	384	547	750	998	1276	1527	-	-	-	-
	TL	-	-	367	554	796	1098	1316	1527	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3.9	2.2/5.5	3/7.6	3.6/9	4.2/10.5	-	-	-	-	-
25	LL	-	-	228	340	484	664	883	1129	1405	-	-	-	-
	TL	-	-	322	488	701	968	1210	1405	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3.6	2/5.1	2.8/7	3.5/8.7	4/10.1	-	-	-	-	-
26	LL	-	-	202	302	430	590	785	1004	-	-	-	-	-
	TL	-	-	284	431	621	858	1117	1296	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3.3	1.9/4.7	2.6/6.4	3.3/8.4	3.9/9.7	-	-	-	-	-
27	LL	-	-	181	270	384	527	701	896	-	-	-	-	-
	TL	-	-	252	383	552	763	1022	1200	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3.1	1.7/4.4	2.4/6	3.2/8	3.7/9.3	-	-	-	-	-
28	LL	-	-	162	242	344	472	629	804	-	-	-	-	-
	TL	-	-	224	341	492	681	913	1113	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3	1.6/4.1	2.2/5.6	3/7.4	3.6/9	-	-	-	-	-
29	LL	-	-	218	310	425	566	723	-	-	-	-	-	-
	TL	-	-	305	440	611	819	1036	-	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3.8	2.1/5.2	2.8/6.9	3.5/8.7	-	-	-	-	-	-
30	LL	-	-	197	280	384	511	653	-	-	-	-	-	-
	TL	-	-	273	395	549	737	947	-	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3.5	1.9/4.8	2.6/6.4	3.3/8.2	-	-	-	-	-	-

\* Can be applied to the beam in addition to its own weight. Simple or multiple beam spans.

### Key to Table:

LL = Maximum live load - limits deflection to L/360

TL = Maximum total load - limits deflections to L/240 (or a maximum of 0.3125" for beams 7 1/4" deep or less)

BRG = Required end / intermediate bearing length (inches), based on bearing stress of 850 psi.

# Allowable Uniform Loads

# 2.1E Beam-Floor 100%

## ALLOWABLE UNIFORM LOADS\* – POUNDS PER LINEAL FOOT

## FOUR x 1 3/4" 2.1E PWLVL

Span (ft)	Key	3 1/2"	5 1/2"	7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 1/2"	14"	16"	18"	20"	22"	24"
6	LL	343	1331	3049	-	-	-	-	-	-	-	-	-	-
	TL	508	1987	3052	4113	4254	5300	5700	7182	8776	10607	12732	15226	17994
	BRG	1.5/3	1.5/3	1.5/3.9	2.1/5.2	2.2/5.4	2.7/6.7	2.9/7.2	3.6/9.1	4.4/11.1	5.4/13.4	6.4/16.1	7.7/19.2	9.1/22.7
7	LL	216	838	1920	-	-	-	-	-	-	-	-	-	-
	TL	283	1113	2544	3397	3509	4332	4644	5778	6967	8294	9785	11472	13268
	BRG	1.5/3	1.5/3	1.5/3.8	2/5	2.1/5.2	2.6/6.4	2.7/6.9	3.4/8.5	4.1/10.3	4.9/12.2	5.8/14.4	6.8/16.9	7.8/19.6
8	LL	-	562	1286	2672	2894	-	-	-	-	-	-	-	-
	TL	-	648	1494	2892	2985	3663	3917	4832	5775	6807	7944	9200	10505
	BRG	-	1.5/3	1.5/3	2/4.9	2/5	2.5/6.2	2.6/6.6	3.3/8.2	3.9/9.8	4.6/11.5	5.4/13.4	6.2/15.5	7.1/17.7
9	LL	-	394	904	1876	2033	-	-	-	-	-	-	-	-
	TL	-	401	928	2518	2597	3172	3386	4151	4929	5771	6684	7677	8691
	BRG	-	1.5/3	1.5/3	1.9/4.8	2/4.9	2.4/6	2.6/6.4	3.2/7.9	3.8/9.4	4.4/11	5.1/12.7	5.8/14.6	6.6/16.5
10	LL	-	-	1368	1482	2461	2894	-	-	-	-	-	-	-
	TL	-	260	604	2035	2206	2796	2981	3637	4299	5007	5767	6585	7410
	BRG	-	1.5/3	1.5/3	1.7/4.3	1.9/4.7	2.4/5.9	2.5/6.3	3.1/7.7	3.6/9.1	4.2/10.6	4.9/12.2	5.6/13.9	6.3/15.7
11	LL	-	-	1028	1113	1849	2175	-	-	-	-	-	-	-
	TL	-	174	409	1525	1653	2500	2662	3236	3811	4421	5071	5764	6456
	BRG	-	1.5/3	1.5/3	1.5/3.6	1.5/3.9	2.3/5.8	2.5/6.2	3/7.5	3.5/8.9	4.1/10.3	4.7/11.8	5.4/13.4	6/15
12	LL	-	-	792	858	1424	1675	2745	-	-	-	-	-	-
	TL	-	-	285	1171	1269	2116	2345	2915	3422	3957	4524	5124	5719
	BRG	-	1.5/3	1.5/3	1.5/3.2	1.5/3.2	2.2/5.4	2.4/6	3/7.4	3.5/8.7	4/10.1	4.6/11.5	5.2/13	5.8/14.5
13	LL	-	-	623	675	1120	1317	2159	-	-	-	-	-	-
	TL	-	-	203	917	994	1660	1954	2650	3104	3581	4082	4611	5132
	BRG	-	1.5/3	1.5/3	1.5/3	1.8/4.6	2.2/5.4	2.9/7.3	3.4/8.6	3.9/9.9	4.5/11.2	5.1/12.7	5.7/14.1	-
14	LL	-	-	499	540	897	1055	1728	-	-	-	-	-	-
	TL	-	-	148	731	793	1325	1561	2312	2840	3269	3719	4190	4654
	BRG	-	1.5/3	1.5/3	1.5/3	1.6/4	1.9/4.7	2.8/6.9	3.4/8.4	3.9/9.7	4.4/11	5/12.4	5.5/13.8	-
15	LL	-	-	405	439	729	858	1405	2098	2987	-	-	-	-
	TL	-	-	591	641	1073	1265	2011	2561	3007	3414	3840	4256	-
	BRG	-	-	1.5/3	1.5/3	1.5/3.4	1.6/4.1	2.6/6.4	3.3/8.2	3.8/9.6	4.3/10.9	4.9/12.2	5.4/13.5	-
16	LL	-	-	334	362	601	707	1158	1728	2461	-	-	-	-
	TL	-	-	484	525	881	1038	1711	2247	2781	3156	3543	3921	-
	BRG	-	-	1.5/3	1.5/3	1.5/3	1.5/3.6	2.3/5.8	3.1/7.7	3.8/9.5	4.3/10.7	4.8/12	5.3/13.3	-
17	LL	-	-	278	302	501	589	965	1441	2052	2814	-	-	-
	TL	-	-	401	435	731	862	1423	1987	2460	2933	3288	3634	-
	BRG	-	-	1.5/3	1.5/3	1.5/3	1.5/3.2	2.1/5.2	2.9/7.2	3.6/8.9	4.2/10.6	4.8/11.9	5.3/13.1	-
18	LL	-	-	235	254	422	496	813	1214	1728	2371	-	-	-
	TL	-	-	335	364	613	723	1194	1769	2191	2651	3067	3386	-
	BRG	-	-	1.5/3	1.5/3	1.5/3	1.5/3	1.8/4.6	2.7/6.8	3.4/8.4	4.1/10.2	4.7/11.8	5.2/13	-
19	LL	-	-	216	216	359	422	691	1032	1470	2016	2683	-	-
	TL	-	-	307	307	518	611	1012	1519	1963	2376	2824	3169	-
	BRG	-	-	1.5/3	1.5/3	1.5/3	1.5/3	1.7/4.1	2.5/6.2	3.2/8	3.9/9.6	4.6/11.4	5.1/12.8	-
20	LL	-	-	308	362	593	885	1260	1728	2300	2940	-	-	-
	TL	-	-	441	521	864	1298	1768	2141	2544	2951	-	-	-
	BRG	-	-	1.5/3	1.5/3	1.5/3.7	1.5/3.6	2.2/5.6	3/7.6	3.7/9.1	4.3/10.9	5/12.6	-	-
21	LL	-	-	266	313	512	764	1088	1493	1987	2540	-	-	-
	TL	-	-	378	447	743	1118	1600	1938	2304	2672	-	-	-
	BRG	-	-	1.5/3	1.5/3	1.5/3.4	1.5/3.4	2/5.1	2.9/7.2	3.5/8.7	4.1/10.3	4.8/12	-	-
22	LL	-	-	231	272	445	665	947	1299	1728	2209	-	-	-
	TL	-	-	326	386	643	968	1387	1763	2096	2431	-	-	-
	BRG	-	-	1.5/3	1.5/3	1.5/3	1.5/3.1	1.8/4.6	2.6/6.6	3.3/8.3	3.9/9.9	4.6/11.4	-	-
23	LL	-	-	238	390	582	828	1136	1513	1933	-	-	-	-
	TL	-	-	335	559	844	1210	1610	1914	2221	-	-	-	-
	BRG	-	-	1.5/3	1.5/3	1.5/3	1.5/3	1.7/4.2	2.4/6	3.2/8	3.8/9.4	4.4/10.9	-	-
24	LL	-	-	343	512	729	1000	1331	1702	-	-	-	-	-
	TL	-	-	489	739	1061	1464	1755	2036	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3.9	2.2/5.5	3/7.6	3.6/9	4.2/10.5	-	-	-	-	-
25	LL	-	-	304	453	645	885	1178	1505	-	-	-	-	-
	TL	-	-	430	651	935	1291	1614	1873	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3.6	2/5.1	2.8/7	3.5/8.7	4/10.1	-	-	-	-	-
26	LL	-	-	270	403	574	787	1047	1338	-	-	-	-	-
	TL	-	-	379	575	828	1144	1489	1728	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3.3	1.9/4.7	2.6/6.4	3.3/8.4	3.9/9.7	-	-	-	-	-
27	LL	-	-	241	360	512	702	935	1195	-	-	-	-	-
	TL	-	-	336	510	735	1017	1363	1600	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3.1	1.7/4.4	2.4/6	3.2/8	3.7/9.3	-	-	-	-	-
28	LL	-	-	216	322	459	630	838	1072	-	-	-	-	-
	TL	-	-	299	455	656	908	1218	1484	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3	1.6/4.1	2.2/5.6	3/7.4	3.6/9	-	-	-	-	-
29	LL	-	-	290	413	567	755	964	-	-	-	-	-	-
	TL	-	-	406	587	814	1092	1381	-	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3.8	2.1/5.2	2.8/6.9	3.5/8.7	-	-	-	-	-	-
30	LL	-	-	262	373	512	682	871	-	-	-	-	-	-
	TL	-	-	364	527	732	982	1263	-	-	-	-	-	-
	BRG	-	-	1.5/3	1.5/3.5	1.9/4.8	2.6/6.4	3.3/8.2	-	-	-	-	-	-

\* Can be applied to the beam in addition to its own weight. Simple or multiple beam spans.

### Key to Table:

LL = Maximum live load - limits deflection to L/360

TL = Maximum total load - limits deflections to L/240 (or a maximum of 0.3125" for beams 7 1/4" deep or less)

BRG = Required end / intermediate bearing length (inches), based on bearing stress of 850 psi.