

# Allowable Uniform Loads

# 2.1E Beam-Roof Snow 115%

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	129	499	-	-	-	-	-	-
	TL	132	518	878	1183	1224	1524	1640	2066
	BRG	1.5/3	1.5/3	1.8/4.4	2.4/6	2.5/6.2	3.1/7.7	3.3/8.3	4.2/10.4
7	LL	-	-	-	-	-	-	-	-
	TL	71	278	640	977	1009	1246	1336	1662
	BRG	1.5/3	1.5/3	1.5/3.8	2.3/5.8	2.4/6	2.9/7.4	3.2/7.9	3.9/9.8
8	LL	-	-	-	-	-	-	-	-
	TL	162	374	832	859	1054	1127	1390	-
	BRG	1.5/3	1.5/3	1.5/3	2.2/5.6	2.3/5.8	2.8/7.1	3/7.6	3.8/9.4
9	LL	-	-	704	-	-	-	-	-
	TL	100	232	724	747	913	974	1194	-
	BRG	1.5/3	1.5/3	2.2/5.5	2.3/5.7	2.8/6.9	3/7.4	3.6/9.1	-
10	LL	-	-	513	556	-	-	-	-
	TL	65	151	621	651	805	858	1047	-
	BRG	1.5/3	1.5/3	2.1/5.3	2.2/5.5	2.7/6.8	2.9/7.3	3.5/8.8	-
11	LL	-	-	385	418	693	-	-	-
	TL	44	102	510	537	719	766	931	-
	BRG	1.5/3	1.5/3	1.9/4.8	2/5	2.7/6.7	2.9/7.1	3.5/8.7	-
12	LL	-	-	297	322	534	628	-	-
	TL	-	71	392	424	612	675	839	-
	BRG	-	1.5/3	1.6/4	1.7/4.3	2.5/6.2	2.7/6.9	3.4/8.5	-
13	LL	-	-	233	253	420	494	-	-
	TL	-	51	307	333	521	574	763	-
	BRG	-	1.5/3	1.5/3.4	1.5/3.7	2.3/5.7	2.5/6.3	3.4/8.4	-
14	LL	-	-	187	203	336	396	648	-
	TL	-	37	245	266	443	494	666	-
	BRG	-	1.5/3	1.5/3	1.5/3.2	2.1/5.3	2.4/5.9	3.2/7.9	-
15	LL	-	-	152	165	273	322	527	-
	TL	-	-	198	215	359	423	579	-
	BRG	-	-	1.5/3	1.5/3	1.8/4.6	2.2/5.4	3/7.4	-
16	LL	-	-	125	136	225	265	434	-
	TL	-	-	163	177	295	348	508	-
	BRG	-	-	1.5/3	1.5/3	1.6/4	1.9/4.8	2.8/6.9	-
17	LL	-	-	104	113	188	221	362	-
	TL	-	-	135	146	245	289	449	-
	BRG	-	-	1.5/3	1.5/3	1.5/3.6	1.7/4.2	2.6/6.5	-
18	LL	-	-	88	95	158	186	305	-
	TL	-	-	113	123	206	243	400	-
	BRG	-	-	1.5/3	1.5/3	1.5/3.2	1.5/3.8	2.5/6.2	-
19	LL	-	-	-	81	135	158	259	-
	TL	-	-	-	104	174	206	339	-
	BRG	-	-	-	1.5/3	1.5/3	1.5/3.4	2.2/5.5	-
20	LL	-	-	-	-	115	136	222	-
	TL	-	-	-	-	149	175	290	-
	BRG	-	-	-	-	1.5/3	1.5/3	2/5	-
21	LL	-	-	-	-	100	117	192	-
	TL	-	-	-	-	128	151	250	-
	BRG	-	-	-	-	1.5/3	1.5/3	1.8/4.5	-
22	LL	-	-	-	-	87	102	167	-
	TL	-	-	-	-	110	131	216	-
	BRG	-	-	-	-	1.5/3	1.5/3	1.6/4.1	-
23	LL	-	-	-	-	-	89	146	-
	TL	-	-	-	-	-	114	189	-
	BRG	-	-	-	-	-	1.5/3	1.5/3.8	-
24	LL	-	-	-	-	-	-	129	-
	TL	-	-	-	-	-	-	165	-
	BRG	-	-	-	-	-	-	1.5/3.5	-
25	LL	-	-	-	-	-	-	114	-
	TL	-	-	-	-	-	-	145	-
	BRG	-	-	-	-	-	-	1.5/3.2	-
26	LL	-	-	-	-	-	-	101	-
	TL	-	-	-	-	-	-	129	-
	BRG	-	-	-	-	-	-	1.5/3	-
27	LL	-	-	-	-	-	-	90	-
	TL	-	-	-	-	-	-	114	-
	BRG	-	-	-	-	-	-	1.5/3	-
28	LL	-	-	-	-	-	-	81	-
	TL	-	-	-	-	-	-	102	-
	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/240

TL = Maximum total load - limits deflections to L/180 (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-Roof Snow 115%

## 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	257	998	-	-	-	-	-	-	-	-	-	-	-
	TL	265	1035	1756	2366	2447	3049	3279	4132	5049	6102	7323	8758	10350
	BRG	1.5/3	1.5/3	1.8/4.4	2.4/6	2.5/6.2	3.1/7.7	3.3/8.3	4.2/10.4	5.1/12.8	6.2/15.4	7.4/18.5	8.9/22.1	10.5/26.1
7	LL	-	-	-	-	-	-	-	-	-	-	-	-	-
	TL	141	556	1279	1954	2019	2493	2672	3324	4008	4772	5629	6599	7632
	BRG	1.5/3	1.5/3	1.5/3.8	2.3/5.8	2.4/6	2.9/7.4	3.2/7.9	3.9/9.8	4.7/11.8	5.6/14.1	6.6/16.6	7.8/19.5	9/22.5
8	LL	-	-	-	-	-	-	-	-	-	-	-	-	-
	TL	-	324	747	1664	1718	2108	2254	2780	3323	3917	4570	5293	6043
	BRG	-	1.5/3	1.5/3	2.2/5.6	2.3/5.8	2.8/7.1	3/7.6	3.8/9.4	4.5/11.2	5.3/13.2	6.2/15.4	7.1/17.9	8.2/20.4
9	LL	-	-	-	1407	-	-	-	-	-	-	-	-	-
	TL	-	200	464	1449	1494	1825	1948	2389	2837	3321	3846	4417	5001
	BRG	-	1.5/3	1.5/3	2.2/5.5	2.3/5.7	2.8/6.9	3/7.4	3.6/9.1	4.3/10.8	5/12.6	5.8/14.6	6.7/16.8	7.6/19
10	LL	-	-	-	1026	1111	-	-	-	-	-	-	-	-
	TL	-	130	302	1241	1302	1609	1716	2093	2474	2882	3319	3789	4264
	BRG	-	1.5/3	1.5/3	2.1/5.3	2.2/5.5	2.7/6.8	2.9/7.3	3.5/8.8	4.2/10.5	4.9/12.2	5.6/14	6.4/16	7.2/18
11	LL	-	-	-	771	835	1387	-	-	-	-	-	-	-
	TL	-	87	204	1019	1075	1439	1532	1863	2193	2545	2918	3317	3716
	BRG	-	1.5/3	1.5/3	1.9/4.8	2/5	2.7/6.7	2.9/7.1	3.5/8.7	4.1/10.2	4.7/11.8	5.4/13.6	6.2/15.4	6.9/17.3
12	LL	-	-	-	594	643	1068	1256	-	-	-	-	-	-
	TL	-	-	142	783	849	1224	1350	1678	1970	2278	2604	2949	3292
	BRG	-	-	1.5/3	1.6/4	1.7/4.3	2.5/6.2	2.7/6.9	3.4/8.5	4/10	4.6/11.6	5.3/13.2	6/15	6.7/16.7
13	LL	-	-	-	467	506	840	988	-	-	-	-	-	-
	TL	-	-	102	614	666	1042	1148	1526	1787	2061	2350	2654	2954
	BRG	-	-	1.5/3	1.5/3.4	1.5/3.7	2.3/5.7	2.5/6.3	3.4/8.4	3.9/9.8	4.5/11.3	5.2/12.9	5.8/14.6	6.5/16.3
14	LL	-	-	-	374	405	673	791	-	-	-	-	-	-
	TL	-	-	74	490	531	887	989	1332	1635	1882	2141	2412	2679
	BRG	-	-	1.5/3	1.5/3	1.5/3.2	2.1/5.3	2.4/5.9	3.2/7.9	3.9/9.7	4.5/11.2	5.1/12.7	5.7/14.3	6.4/15.9
15	LL	-	-	-	304	329	547	643	1054	-	-	-	-	-
	TL	-	-	-	397	430	719	847	1158	1475	1732	1966	2211	2450
	BRG	-	-	-	1.5/3	1.5/3	1.8/4.6	2.2/5.4	3/7.4	3.8/9.4	4.4/11	5/12.5	5.6/14.1	6.2/15.6
16	LL	-	-	-	250	271	451	530	868	-	-	-	-	-
	TL	-	-	-	326	353	591	696	1016	1294	1602	1817	2040	2258
	BRG	-	-	-	1.5/3	1.5/3	1.6/4	1.9/4.8	2.8/6.9	3.5/8.8	4.4/10.9	4.9/12.3	5.5/13.8	6.1/15.3
17	LL	-	-	-	209	226	376	442	724	1081	-	-	-	-
	TL	-	-	-	270	293	491	578	899	1145	1417	1689	1894	2093
	BRG	-	-	-	1.5/3	1.5/3	1.5/3.6	1.7/4.2	2.6/6.5	3.3/8.3	4.1/10.2	4.9/12.2	5.5/13.7	6/15.1
18	LL	-	-	-	176	191	316	372	610	910	-	-	-	-
	TL	-	-	-	226	245	412	485	800	1020	1262	1527	1767	1950
	BRG	-	-	-	1.5/3	1.5/3	1.5/3.2	1.5/3.8	2.5/6.2	3.1/7.8	3.9/9.7	4.7/11.7	5.4/13.5	6/14.9
19	LL	-	-	-	162	269	316	519	774	1102	-	-	-	-
	TL	-	-	-	207	349	411	679	914	1131	1369	1627	1825	-
	BRG	-	-	-	1.5/3	1.5/3	1.5/3.4	1.5/3.4	2.2/5.5	3/7.4	3.7/9.2	4.4/11.1	5.3/13.1	5.9/14.7
20	LL	-	-	-	231	271	445	664	945	-	-	-	-	-
	TL	-	-	-	297	351	580	823	1019	1234	1466	1700	-	-
	BRG	-	-	-	1.5/3	1.5/3	1.5/3	2/5	2.8/7	3.5/8.7	4.2/10.5	5/12.5	5.8/14.5	-
21	LL	-	-	-	199	234	384	573	816	-	-	-	-	-
	TL	-	-	-	255	302	499	745	923	1117	1328	1540	-	-
	BRG	-	-	-	1.5/3	1.5/3	1.8/4.5	2.7/6.7	3.3/8.3	4/10	4.8/11.9	5.5/13.8	-	-
22	LL	-	-	-	173	204	334	499	710	974	-	-	-	-
	TL	-	-	-	221	261	433	650	839	1016	1208	1401	-	-
	BRG	-	-	-	1.5/3	1.5/3	1.6/4.1	2.5/6.1	3.2/7.9	3.8/9.6	4.5/11.4	5.3/13.2	-	-
23	LL	-	-	-	178	292	436	621	852	-	-	-	-	-
	TL	-	-	-	227	377	567	767	928	1104	1280	1480	-	-
	BRG	-	-	-	1.5/3	1.5/3	1.5/3.8	2.2/5.6	3/7.6	3.7/9.1	4.3/10.9	5/12.6	-	-
24	LL	-	-	-	257	384	547	750	998	-	-	-	-	-
	TL	-	-	-	330	498	703	851	1012	1174	-	-	-	-
	BRG	-	-	-	1.5/3.5	2.1/5.2	2.9/7.3	3.5/8.8	4.2/10.4	4.8/12.1	-	-	-	-
25	LL	-	-	-	228	340	484	664	883	-	-	-	-	-
	TL	-	-	-	291	439	629	783	931	1080	-	-	-	-
	BRG	-	-	-	1.5/3.2	1.9/4.8	2.7/6.8	3.4/8.4	4/10	4.6/11.6	-	-	-	-
26	LL	-	-	-	202	302	430	590	785	-	-	-	-	-
	TL	-	-	-	257	388	557	722	859	997	-	-	-	-
	BRG	-	-	-	1.5/3	1.8/4.4	2.5/6.3	3.2/8.1	3.8/9.6	4.5/11.1	-	-	-	-
27	LL	-	-	-	181	270	384	527	701	896	-	-	-	-
	TL	-	-	-	228	345	496	669	795	923	-	-	-	-
	BRG	-	-	-	1.5/3	1.6/4.1	2.3/5.8	3.1/7.8	3.7/9.2	4.3/10.7	-	-	-	-
28	LL	-	-	-	162	242	344	472	629	804	-	-	-	-
	TL	-	-	-	203	308	443	612	738	857	-	-	-	-
	BRG	-	-	-	1.5/3	1.5/3.8	2.2/5.4	3/7.4	3.6/8.9	4.1/10.3	-	-	-	-
29	LL	-	-	-	218	310	425	566	723	-	-	-	-	-
	TL	-	-	-	276	397	549	687	797	-	-	-	-	-
	BRG	-	-	-	1.5/3.5	2/5	2.8/6.9	3.4/8.6	4/10	-	-	-	-	-
30	LL	-	-	-	197	280	384	511	653	-	-	-	-	-
	TL	-	-	-	248	357	494	640	743	-	-	-	-	-
	BRG	-	-	-	1.5/3.3	1.9/4.7	2.6/6.5	3.3/8.3	3.9/9.6	-	-	-	-	-

\* 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/240

TL = Maximum total load - limits deflections to L/180 (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-Roof Snow 115%

## 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	386	1498	-	-	-	-	-	-	-	-	-	-	-
	TL	397	1553	2634	3549	3671	4573	4919	6198	7573	9152	10985	13137	15525
	BRG	1.5/3	1.5/3	1.8/4.4	2.4/6	2.5/6.2	3.1/7.7	3.3/8.3	4.2/10.4	5.1/12.8	6.2/15.4	7.4/18.5	8.9/22.1	10.5/26.1
7	LL	-	-	-	-	-	-	-	-	-	-	-	-	-
	TL	212	835	1919	2931	3028	3739	4008	4987	6012	7157	8444	9899	11449
	BRG	1.5/3	1.5/3	1.5/3.8	2.3/5.8	2.4/6	2.9/7.4	3.2/7.9	3.9/9.8	4.7/11.8	5.6/14.1	6.6/16.6	7.8/19.5	9/22.5
8	LL	-	-	-	-	-	-	-	-	-	-	-	-	-
	TL	486	1121	2496	2577	3161	3380	4170	4984	5875	6855	7939	9065	-
	BRG	1.5/3	1.5/3	2.2/5.6	2.3/5.8	2.8/7.1	3/7.6	3.8/9.4	4.5/11.2	5.3/13.2	6.2/15.4	7.1/17.9	8.2/20.4	-
9	LL	-	-	-	2111	-	-	-	-	-	-	-	-	-
	TL	301	696	2173	2242	2738	2922	3583	4255	4981	5769	6626	7501	-
	BRG	1.5/3	1.5/3	2.2/5.5	2.3/5.7	2.8/6.9	3/7.4	3.6/9.1	4.3/10.8	5/12.6	5.8/14.6	6.7/16.8	7.6/19	-
10	LL	-	-	-	1539	1667	-	-	-	-	-	-	-	-
	TL	195	453	1862	1954	2414	2573	3140	3711	4322	4978	5684	6396	-
	BRG	1.5/3	1.5/3	2.1/5.3	2.2/5.5	2.7/6.8	2.9/7.3	3.5/8.8	4.2/10.5	4.9/12.2	5.6/14	6.4/16	7.2/18	-
11	LL	-	-	-	1156	1253	2080	-	-	-	-	-	-	-
	TL	131	306	1529	1612	2158	2298	2794	3290	3817	4378	4976	5573	-
	BRG	1.5/3	1.5/3	1.9/4.8	2/5	2.7/6.7	2.9/7.1	3.5/8.7	4.1/10.2	4.7/11.8	5.4/13.6	6.2/15.4	6.9/17.3	-
12	LL	-	-	-	891	965	1602	1884	-	-	-	-	-	-
	TL	213	1175	1273	1836	2025	2517	2954	3417	3906	4424	4938	-	-
	BRG	1.5/3	1.6/4	1.7/4.3	2.5/6.2	2.7/6.9	3.4/8.5	4/10	4.6/11.6	5.3/13.2	6/15	6.7/16.7	-	-
13	LL	-	-	-	700	759	1260	1482	-	-	-	-	-	-
	TL	152	921	999	1562	1723	2289	2681	3092	3525	3981	4431	-	-
	BRG	1.5/3	1.5/3.4	1.5/3.7	2.3/5.7	2.5/6.3	3.4/8.4	3.9/9.8	4.5/11.3	5.2/12.9	5.8/14.6	6.5/16.3	-	-
14	LL	-	-	-	561	608	1009	1187	1944	-	-	-	-	-
	TL	111	735	797	1330	1483	1997	2453	2823	3212	3619	4019	-	-
	BRG	1.5/3	1.5/3	1.5/3.2	2.1/5.3	2.4/5.9	3.2/7.9	3.9/9.7	4.5/11.2	5.1/12.7	5.7/14.3	6.4/15.9	-	-
15	LL	-	-	-	456	494	820	965	1581	-	-	-	-	-
	TL	595	646	1078	1270	1737	2212	2597	2949	3316	3676	-	-	-
	BRG	1.5/3	1.5/3	1.8/4.6	2.2/5.4	3/7.4	3.8/9.4	4.4/11	5/12.5	5.6/14.1	6.2/15.6	-	-	-
16	LL	-	-	-	376	407	676	795	1303	-	-	-	-	-
	TL	488	530	886	1044	1525	1941	2402	2726	3060	3386	-	-	-
	BRG	1.5/3	1.5/3	1.6/4	1.9/4.8	2.8/6.9	3.5/8.8	4.4/10.9	4.9/12.3	5.5/13.8	6.1/15.3	-	-	-
17	LL	-	-	-	313	339	564	663	1086	1621	-	-	-	-
	TL	405	439	736	867	1348	1717	2125	2534	2841	3139	-	-	-
	BRG	1.5/3	1.5/3	1.5/3.6	1.7/4.2	2.6/6.5	3.3/8.3	4.1/10.2	4.9/12.2	5.5/13.7	6/15.1	-	-	-
18	LL	-	-	-	264	286	475	558	915	1366	-	-	-	-
	TL	339	368	618	728	1201	1529	1893	2291	2650	2925	-	-	-
	BRG	1.5/3	1.5/3	1.5/3.2	1.5/3.8	2.5/6.2	3.1/7.8	3.9/9.7	4.7/11.7	5.4/13.5	6/14.9	-	-	-
19	LL	-	-	-	243	404	475	778	1161	1653	-	-	-	-
	TL	311	523	617	1018	1370	1696	2053	2440	2738	-	-	-	-
	BRG	1.5/3	1.5/3	1.5/3.4	2.2/5.5	3/7.4	3.7/9.2	4.4/11.1	5.3/13.1	5.9/14.7	-	-	-	-
20	LL	-	-	-	346	407	667	996	1418	-	-	-	-	-
	TL	446	526	870	1235	1529	1850	2199	2550	-	-	-	-	-
	BRG	1.5/3	1.5/3	1.5/3	2.2/5.5	3/7.4	3.7/9.2	4.4/11.1	5.3/13.1	5.9/14.7	-	-	-	-
21	LL	-	-	-	299	352	576	860	1224	-	-	-	-	-
	TL	383	453	749	1118	1384	1676	1992	2310	-	-	-	-	-
	BRG	1.5/3	1.5/3	1.8/4.5	2.7/6.7	3.3/8.3	4/10	4.8/11.9	5.5/13.8	-	-	-	-	-
22	LL	-	-	-	260	306	501	748	1065	1461	-	-	-	-
	TL	331	392	649	975	1259	1524	1812	2102	-	-	-	-	-
	BRG	1.5/3	1.5/3	1.6/4.1	2.5/6.1	3.2/7.9	3.8/9.6	4.5/11.4	5.3/13.2	-	-	-	-	-
23	LL	-	-	-	268	439	655	932	1279	-	-	-	-	-
	TL	341	566	851	1150	1392	1655	1920	-	-	-	-	-	-
	BRG	1.5/3	1.5/3.8	2.2/5.6	3/7.6	3.7/9.1	4.3/10.9	5/12.6	-	-	-	-	-	-
24	LL	-	-	-	386	576	820	1125	1498	-	-	-	-	-
	TL	496	746	1054	1277	1518	1761	-	-	-	-	-	-	-
	BRG	1.5/3.5	2.1/5.2	2.9/7.3	3.5/8.8	4.2/10.4	4.8/12.1	-	-	-	-	-	-	-
25	LL	-	-	-	341	510	726	996	1325	-	-	-	-	-
	TL	436	658	943	1174	1397	1620	-	-	-	-	-	-	-
	BRG	1.5/3.2	1.9/4.8	2.7/6.8	3.4/8.4	4/10	4.6/11.6	-	-	-	-	-	-	-
26	LL	-	-	-	304	453	645	885	1178	-	-	-	-	-
	TL	386	582	836	1084	1289	1496	-	-	-	-	-	-	-
	BRG	1.5/3	1.8/4.4	2.5/6.3	3.2/8.1	3.8/9.6	4.5/11.1	-	-	-	-	-	-	-
27	LL	-	-	-	271	405	576	790	1052	1344	-	-	-	-
	TL	342	518	744	1003	1193	1384	-	-	-	-	-	-	-
	BRG	1.5/3	1.6/4.1	2.3/5.8	3.1/7.8	3.7/9.2	4.3/10.7	-	-	-	-	-	-	-
28	LL	-	-	-	243	363	517	709	943	1205	-	-	-	-
	TL	305	462	664	918	1107	1285	-	-	-	-	-	-	-
	BRG	1.5/3	1.5/3.8	2.2/5.4	3/7.4	3.6/8.9	4.1/10.3	-	-	-	-	-	-	-
29	LL	-	-	-	327	465	638	849	1085	-	-	-	-	-
	TL	414	595	823	1030	1196	-	-	-	-	-	-	-	-
	BRG	1.5/3.5	2/5	2.8/6.9	3.4/8.6	4/10	-	-	-	-	-	-	-	-
30	LL	-	-	-	295	420	576	767	980	-	-	-	-	-
	TL	371	535	741	961	1115	-	-	-	-	-	-	-	-
	BRG	1.5/3.3	1.9/4.7	2.6/6.5	3.3/8.3	3.9/9.6	-	-	-	-	-	-	-	-

\* 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/240

TL = Maximum total load - limits deflections to L/180 (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-Roof Snow 115%

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	515	1997	-	-	-	-	-	-	-	-	-	-	-
	TL	530	2070	3512	4732	4894	6098	6558	8263	10097	12203	14647	17516	20700
	BRG	1.5/3	1.5/3	1.8/4.4	2.4/6	2.5/6.2	3.1/7.7	3.3/8.3	4.2/10.4	5.1/12.8	6.2/15.4	7.4/18.5	8.9/22.1	10.5/26.1
7	LL	-	-	-	-	-	-	-	-	-	-	-	-	-
	TL	283	1113	2559	3909	4038	4985	5343	6649	8017	9543	11258	13199	15265
	BRG	1.5/3	1.5/3	1.5/3.8	2.3/5.8	2.4/6	2.9/7.4	3.2/7.9	3.9/9.8	4.7/11.8	5.6/14.1	6.6/16.6	7.8/19.5	9/22.5
8	LL	-	-	-	-	-	-	-	-	-	-	-	-	-
	TL	-	648	1494	3328	3435	4215	4507	5561	6645	7833	9141	10586	12087
	BRG	-	1.5/3	1.5/3	2.2/5.6	2.3/5.8	2.8/7.1	3/7.6	3.8/9.4	4.5/11.2	5.3/13.2	6.2/15.4	7.1/17.9	8.2/20.4
9	LL	-	-	-	2815	-	-	-	-	-	-	-	-	-
	TL	-	401	928	2898	2989	3650	3897	4777	5673	6641	7692	8834	10001
	BRG	-	1.5/3	1.5/3	2.2/5.5	2.3/5.7	2.8/6.9	3/7.4	3.6/9.1	4.3/10.8	5/12.6	5.8/14.6	6.7/16.8	7.6/19
10	LL	-	-	-	2052	2223	-	-	-	-	-	-	-	-
	TL	-	260	604	2482	2605	3218	3431	4187	4948	5763	6638	7579	8528
	BRG	-	1.5/3	1.5/3	2.1/5.3	2.2/5.5	2.7/6.8	2.9/7.3	3.5/8.8	4.2/10.5	4.9/12.2	5.6/14	6.4/16	7.2/18
11	LL	-	-	-	1542	1670	2773	-	-	-	-	-	-	-
	TL	-	174	409	2039	2150	2878	3064	3726	4387	5089	5837	6634	7431
	BRG	-	1.5/3	1.5/3	1.9/4.8	2/5	2.7/6.7	2.9/7.1	3.5/8.7	4.1/10.2	4.7/11.8	5.4/13.6	6.2/15.4	6.9/17.3
12	LL	-	-	-	1187	1286	2136	2512	-	-	-	-	-	-
	TL	-	-	285	1566	1698	2448	2699	3356	3939	4556	5208	5898	6583
	BRG	-	1.5/3	1.6/4	1.7/4.3	1.7/4.3	2.5/6.2	2.7/6.9	3.4/8.5	4/10	4.6/11.6	5.3/13.2	6/15	6.7/16.7
13	LL	-	-	-	934	1012	1680	1976	-	-	-	-	-	-
	TL	-	-	203	1228	1332	2083	2297	3052	3574	4123	4700	5308	5908
	BRG	-	1.5/3	1.5/3.4	1.5/3.7	2.3/5.7	2.5/6.3	3.4/8.4	3.9/9.8	4.5/11.3	5.2/12.9	5.8/14.6	6.5/16.3	-
14	LL	-	-	-	748	810	1345	1582	2593	-	-	-	-	-
	TL	-	-	148	980	1063	1773	1978	2663	3271	3765	4282	4825	5358
	BRG	-	1.5/3	1.5/3	1.5/3.2	2.1/5.3	2.4/5.9	3.2/7.9	3.9/9.7	4.5/11.2	5.1/12.7	5.7/14.3	6.4/15.9	-
15	LL	-	-	-	608	659	1094	1286	2108	-	-	-	-	-
	TL	-	-	-	794	861	1438	1694	2317	2949	3463	3932	4422	4901
	BRG	-	-	-	1.5/3	1.5/3	1.8/4.6	2.2/5.4	3/7.4	3.8/9.4	4.4/11	5/12.5	5.6/14.1	6.2/15.6
16	LL	-	-	-	501	543	901	1060	1737	-	-	-	-	-
	TL	-	-	-	651	706	1181	1392	2033	2589	3203	3634	4080	4515
	BRG	-	-	-	1.5/3	1.5/3	1.6/4	1.9/4.8	2.8/6.9	3.5/8.8	4.4/10.9	4.9/12.3	5.5/13.8	6.1/15.3
17	LL	-	-	-	418	452	751	884	1448	2161	-	-	-	-
	TL	-	-	-	540	586	981	1157	1798	2290	2834	3378	3787	4185
	BRG	-	-	-	1.5/3	1.5/3	1.5/3.6	1.7/4.2	2.6/6.5	3.3/8.3	4.1/10.2	4.9/12.2	5.5/13.7	6/15.1
18	LL	-	-	-	352	381	633	744	1220	1821	-	-	-	-
	TL	-	-	-	452	491	823	971	1601	2039	2524	3054	3533	3900
	BRG	-	-	-	1.5/3	1.5/3	1.5/3.2	1.5/3.8	2.5/6.2	3.1/7.8	3.9/9.7	4.7/11.7	5.4/13.5	6/14.9
19	LL	-	-	-	324	538	633	1037	1548	2204	-	-	-	-
	TL	-	-	-	415	697	822	1357	1827	2262	2738	3253	3651	-
	BRG	-	-	-	1.5/3	1.5/3	1.5/3.4	2.2/5.5	3/7.4	3.7/9.2	4.4/11.1	5.3/13.1	5.9/14.7	-
20	LL	-	-	-	461	543	889	1327	1890	-	-	-	-	-
	TL	-	-	-	595	702	1160	1646	2038	2467	2932	3400	-	-
	BRG	-	-	-	1.5/3	1.5/3	1.5/3	2/5	2.8/7	3.5/8.7	4.2/10.5	5/12.5	5.8/14.5	-
21	LL	-	-	-	399	469	768	1147	1633	-	-	-	-	-
	TL	-	-	-	511	603	999	1491	1846	2234	2656	3080	-	-
	BRG	-	-	-	1.5/3	1.5/3	1.8/4.5	2.7/6.7	3.3/8.3	4/10	4.8/11.9	5.5/13.8	-	-
22	LL	-	-	-	347	408	668	997	1420	1948	-	-	-	-
	TL	-	-	-	442	522	865	1301	1679	2033	2416	2802	-	-
	BRG	-	-	-	1.5/3	1.5/3	1.6/4.1	2.5/6.1	3.2/7.9	3.8/9.6	4.5/11.4	5.3/13.2	-	-
23	LL	-	-	-	357	585	873	1243	1705	-	-	-	-	-
	TL	-	-	-	454	754	1135	1533	1857	2207	2560	-	-	-
	BRG	-	-	-	1.5/3	1.5/3	1.5/3.8	2.2/5.6	3/7.6	3.7/9.1	4.3/10.9	5/12.6	-	-
24	LL	-	-	-	515	768	1094	1500	1997	-	-	-	-	-
	TL	-	-	-	661	995	1405	1702	2024	2348	-	-	-	-
	BRG	-	-	-	1.5/3.5	2.1/5.2	2.9/7.3	3.5/8.8	4.2/10.4	4.8/12.1	-	-	-	-
25	LL	-	-	-	455	680	968	1327	1767	-	-	-	-	-
	TL	-	-	-	582	877	1258	1566	1862	2160	-	-	-	-
	BRG	-	-	-	1.5/3.2	1.9/4.8	2.7/6.8	3.4/8.4	4/10	4.6/11.6	-	-	-	-
26	LL	-	-	-	405	604	860	1180	1571	-	-	-	-	-
	TL	-	-	-	514	776	1114	1445	1719	1994	-	-	-	-
	BRG	-	-	-	1.5/3	1.8/4.4	2.5/6.3	3.2/8.1	3.8/9.6	4.5/11.1	-	-	-	-
27	LL	-	-	-	361	540	768	1054	1403	1793	-	-	-	-
	TL	-	-	-	456	690	992	1337	1591	1846	-	-	-	-
	BRG	-	-	-	1.5/3	1.6/4.1	2.3/5.8	3.1/7.8	3.7/9.2	4.3/10.7	-	-	-	-
28	LL	-	-	-	324	484	689	945	1258	1566	-	-	-	-
	TL	-	-	-	407	616	886	1223	1476	1713	-	-	-	-
	BRG	-	-	-	1.5/3	1.5/3.8	2.2/5.4	3/7.4	3.6/8.9	4.1/10.3	-	-	-	-
29	LL	-	-	-	435	620	850	1132	1447	-	-	-	-	-
	TL	-	-	-	551	794	1098	1374	1594	-	-	-	-	-
	BRG	-	-	-	1.5/3.5	2/5	2.8/6.9	3.4/8.6	4/10	-	-	-	-	-
30	LL	-	-	-	393	560	768	1022	1307	-	-	-	-	-
	TL	-	-	-	495	714	988	1281	1487	-	-	-	-	-
	BRG	-	-	-	1.5/3.3	1.9/4.7	2.6/6.5	3.3/8.3	3.9/9.6	-	-	-	-	-

\* 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/240

TL = Maximum total load - limits deflections to L/180 (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.