

2.0E ALLOWABLE UNIFORM LOADS ROOF NON-SNOW 125%

P W L V L 1 3/4" 2.0E R O O F U N I F O R M L O A D S

ALLOWABLE UNIFORM LOADS* – POUNDS PER LINEAL FOOT – 1 3/4" 2.0E PWLVL

Span (ft)	Key	One 1 3/4" 2.0E PWLVL							
		3 1/2"	5 1/2"	7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 7/8"	14"
6	LL	129	499	-	-	-	-	-	-
	TL	132	518	955	1286	1330	1657	1783	2246
	BRG	1.5 / 3	1.5 / 3	1.9 / 4.8	2.6 / 6.5	2.7 / 6.7	3.4 / 8.4	3.6 / 9	4.5 / 11.4
7	LL	-	-	-	-	-	-	-	-
	TL	71	278	640	1062	1098	1355	1452	1807
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.8	2.5 / 6.3	2.6 / 6.5	3.2 / 8	3.4 / 8.6	4.3 / 10.7
8	LL	-	-	-	-	-	-	-	-
	TL	-	162	374	905	934	1146	1225	1512
	BRG	-	1.5 / 3	1.5 / 3	2.4 / 6.1	2.5 / 6.3	3.1 / 7.7	3.3 / 8.3	4.1 / 10.2
9	LL	-	-	-	704	762	-	-	-
	TL	-	100	232	788	813	992	1059	1299
	BRG	-	1.5 / 3	1.5 / 3	2.4 / 6	2.5 / 6.2	3 / 7.5	3.2 / 8.1	3.9 / 9.9
10	LL	-	-	-	513	556	-	-	-
	TL	-	65	151	675	708	875	933	1138
	BRG	-	1.5 / 3	1.5 / 3	2.3 / 5.7	2.4 / 6	3 / 7.4	3.2 / 7.9	3.8 / 9.6
11	LL	-	-	-	385	418	693	815	-
	TL	-	44	102	510	552	782	833	1013
	BRG	-	1.5 / 3	1.5 / 3	1.9 / 4.8	2.1 / 5.1	2.9 / 7.3	3.1 / 7.8	3.8 / 9.4
12	LL	-	-	-	297	322	534	628	-
	TL	-	-	71	392	424	666	734	912
	BRG	-	-	1.5 / 3	1.6 / 4	1.7 / 4.3	2.7 / 6.8	3 / 7.5	3.7 / 9.3
13	LL	-	-	-	233	253	420	494	810
	TL	-	-	51	307	333	555	625	830
	BRG	-	-	1.5 / 3	1.5 / 3.4	1.5 / 3.7	2.4 / 6.1	2.8 / 6.9	3.7 / 9.1
14	LL	-	-	-	187	203	336	396	648
	TL	-	-	37	245	266	443	522	724
	BRG	-	-	1.5 / 3	1.5 / 3	1.5 / 3.2	2.1 / 5.3	2.5 / 6.2	3.4 / 8.6
15	LL	-	-	-	152	165	273	322	527
	TL	-	-	-	198	215	359	423	630
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.8 / 4.6	2.2 / 5.4	3.2 / 8
16	LL	-	-	-	125	136	225	265	434
	TL	-	-	-	163	177	295	348	553
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.6 / 4	1.9 / 4.8	3 / 7.5
17	LL	-	-	-	104	113	188	221	362
	TL	-	-	-	135	146	245	289	476
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.6	1.7 / 4.2	2.8 / 6.9
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.

2.0E ALLOWABLE UNIFORM LOADS ROOF NON-SNOW 125%

ALLOWABLE UNIFORM LOADS* – POUNDS PER LINEAL FOOT – 1 3/4" 2.0E PWLVL

Span (ft)	Key	Two 1 3/4" 2.0E PWLVL												
		3 1/2"	5 1/2"	7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 7/8"	14"	16"	18"	20"	22"	24"
6	LL	257	998	-	-	-	-	-	-	-	-	-	-	-
	TL	265	1035	1909	2573	2661	3315	3565	4492	5489	6634	7962	9521	11252
	BRG	1.5 / 3	1.5 / 3	1.9 / 4.8	2.6 / 6.5	2.7 / 6.7	3.4 / 8.4	3.6 / 9	4.5 / 11.4	5.5 / 13.9	6.7 / 16.8	8 / 20.1	9.6 / 24.1	11.4 / 28.4
7	LL	-	-	-	-	-	-	-	-	-	-	-	-	-
	TL	141	556	1279	2125	2195	2710	2905	3615	4358	5188	6120	7175	8298
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.8	2.5 / 6.3	2.6 / 6.5	3.2 / 8	3.4 / 8.6	4.3 / 10.7	5.1 / 12.9	6.1 / 15.3	7.2 / 18.1	8.5 / 21.2	9.8 / 24.5
8	LL	-	-	-	-	-	-	-	-	-	-	-	-	-
	TL	-	324	747	1810	1868	2292	2451	3023	3613	4259	4969	5755	6571
	BRG	-	1.5 / 3	1.5 / 3	2.4 / 6.1	2.5 / 6.3	3.1 / 7.7	3.3 / 8.3	4.1 / 10.2	4.9 / 12.2	5.7 / 14.4	6.7 / 16.8	7.8 / 19.4	8.9 / 22.2
9	LL	-	-	-	1407	1525	-	-	-	-	-	-	-	-
	TL	-	200	464	1576	1625	1985	2119	2598	3084	3611	4182	4803	5437
	BRG	-	1.5 / 3	1.5 / 3	2.4 / 6	2.5 / 6.2	3 / 7.5	3.2 / 8.1	3.9 / 9.9	4.7 / 11.7	5.5 / 13.7	6.4 / 15.9	7.3 / 18.2	8.3 / 20.6
10	LL	-	-	-	1026	1111	-	-	-	-	-	-	-	-
	TL	-	130	302	1350	1416	1750	1866	2277	2691	3134	3609	4121	4637
	BRG	-	1.5 / 3	1.5 / 3	2.3 / 5.7	2.4 / 6	3 / 7.4	3.2 / 7.9	3.8 / 9.6	4.5 / 11.4	5.3 / 13.2	6.1 / 15.2	7 / 17.4	7.8 / 19.6
11	LL	-	-	-	771	835	1387	1631	-	-	-	-	-	-
	TL	-	87	204	1019	1105	1565	1666	2026	2385	2767	3174	3607	4041
	BRG	-	1.5 / 3	1.5 / 3	1.9 / 4.8	2.1 / 5.1	2.9 / 7.3	3.1 / 7.8	3.8 / 9.4	4.4 / 11.1	5.1 / 12.9	5.9 / 14.8	6.7 / 16.8	7.5 / 18.8
12	LL	-	-	-	594	643	1068	1256	-	-	-	-	-	-
	TL	-	-	142	783	849	1331	1468	1825	2142	2477	2832	3207	3580
	BRG	-	-	1.5 / 3	1.6 / 4	1.7 / 4.3	2.7 / 6.8	3 / 7.5	3.7 / 9.3	4.3 / 10.9	5 / 12.6	5.7 / 14.4	6.5 / 16.3	7.3 / 18.2
13	LL	-	-	-	467	506	840	988	1619	-	-	-	-	-
	TL	-	-	102	614	666	1110	1249	1660	1944	2242	2556	2887	3213
	BRG	-	-	1.5 / 3	1.5 / 3.4	1.5 / 3.7	2.4 / 6.1	2.8 / 6.9	3.7 / 9.1	4.3 / 10.7	4.9 / 12.3	5.6 / 14.1	6.4 / 15.9	7.1 / 17.7
14	LL	-	-	-	374	405	673	791	1296	-	-	-	-	-
	TL	-	-	74	490	531	887	1044	1448	1779	2047	2329	2624	2914
	BRG	-	-	1.5 / 3	1.5 / 3	1.5 / 3.2	2.1 / 5.3	2.5 / 6.2	3.4 / 8.6	4.2 / 10.5	4.9 / 12.1	5.5 / 13.8	6.2 / 15.6	6.9 / 17.3
15	LL	-	-	-	304	329	547	643	1054	1573	-	-	-	-
	TL	-	-	-	397	430	719	847	1260	1604	1884	2139	2405	2665
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.8 / 4.6	2.2 / 5.4	3.2 / 8	4.1 / 10.2	4.8 / 12	5.4 / 13.6	6.1 / 15.3	6.8 / 16.9
16	LL	-	-	-	250	271	451	530	868	1296	-	-	-	-
	TL	-	-	-	326	353	591	696	1106	1408	1742	1977	2219	2456
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.6 / 4	1.9 / 4.8	3 / 7.5	3.8 / 9.6	4.7 / 11.8	5.4 / 13.4	6 / 15.1	6.7 / 16.7
17	LL	-	-	-	209	226	376	442	724	1081	1539	-	-	-
	TL	-	-	-	270	293	491	578	953	1246	1541	1838	2060	2276
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.6	1.7 / 4.2	2.8 / 6.9	3.6 / 9	4.5 / 11.1	5.3 / 13.3	5.9 / 14.9	6.6 / 16.4
18	LL	-	-	-	176	191	316	372	610	910	1296	-	-	-
	TL	-	-	-	226	245	412	485	800	1110	1373	1662	1922	2121
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.2	1.5 / 3.8	2.5 / 6.2	3.4 / 8.5	4.2 / 10.5	5.1 / 12.7	5.9 / 14.7	6.5 / 16.2
19	LL	-	-	-	162	269	316	519	774	1102	-	-	-	-
	TL	-	-	-	207	349	411	679	994	1231	1489	1770	1986	-
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	2.2 / 5.5	3.2 / 8.1	4 / 10	4.8 / 12	5.7 / 14.3	6.4 / 16
20	LL	-	-	-	231	271	445	664	945	1296	-	-	-	-
	TL	-	-	-	297	351	580	870	1109	1342	1595	1850	-	
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	2 / 5	3 / 7.4	3.8 / 9.5	4.6 / 11.4	5.4 / 13.6	6.3 / 15.7	
21	LL	-	-	-	199	234	384	573	816	1120	-	-	-	-
	TL	-	-	-	255	302	499	750	1005	1216	1445	1676	-	
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.8 / 4.5	2.7 / 6.7	3.6 / 9	4.4 / 10.9	5.2 / 12.9	6 / 15	-	
22	LL	-	-	-	173	204	334	499	710	974	1296	-	-	-
	TL	-	-	-	221	261	433	650	914	1106	1315	1525	-	
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 4.1	2.5 / 6.1	3.4 / 8.6	4.2 / 10.4	4.9 / 12.3	5.7 / 14.3	
23	LL	-	-	-	178	292	436	621	852	1134	-	-	-	-
	TL	-	-	-	227	377	567	812	1011	1201	1393	-	-	
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.8	2.2 / 5.6	3.2 / 8	4 / 9.9	4.7 / 11.8	5.5 / 13.7	-	
24	LL	-	-	-	257	384	547	750	998	1276	-	-	-	-
	TL	-	-	-	330	498	713	927	1102	1278	-	-	-	
	BRG	-	-	-	1.5 / 3.5	2.1 / 5.2	2.9 / 7.4	3.8 / 9.5	4.6 / 11.4	5.4 / 13.6	6.3 / 15.7	-	-	
25	LL	-	-	-	228	340	484	664	883	1129	-	-	-	-
	TL	-	-	-	291	439	629	853	1014	1176	-	-	-	
	BRG	-	-	-	1.5 / 3.2	1.9 / 4.8	2.7 / 6.8	3.7 / 9.1	4.3 / 10.9	5 / 12.6	-	-	-	
26	LL	-	-	-	202	302	430	590	785	1004	-	-	-	-
	TL	-	-	-	257	388	557	769	936	1086	-	-	-	
	BRG	-	-	-	1.5 / 3	1.8 / 4.4	2.5 / 6.3	3.4 / 8.6	4.2 / 10.4	4.8 / 12.1	-	-	-	
27	LL	-	-	-	181	270	384	527	701	896	-	-	-	-
	TL	-	-	-	228	345	496	684	866	1005	-	-	-	
	BRG	-	-	-	1.5 / 3	1.6 / 4.1	2.3 / 5.8	3.2 / 8	4 / 10.1	4.7 / 11.6	-	-	-	
28	LL	-	-	-	162	242	344	472	629	804	-	-	-	-
	TL	-	-	-	203	308	443	612	804	933	-	-	-	
	BRG	-	-	-	1.5 / 3	1.5 / 3.8	2.2 / 5.4	3 / 7.4	3.9 / 9.7	4.5 / 11.2	-	-	-	
29	LL	-	-	-	218	310	425	566	723	-	-	-	-	
	TL	-	-	-	276	397	549	735	868	-	-	-	-	
	BRG	-	-	-	1.5 / 3.5	2 / 5	2.8 / 6.9	3.7 / 9.2	4.3 / 10.8	-	-	-	-	
30	LL	-	-	-	197	280	384	511	653	-	-	-	-	
	TL	-	-	-	248	357	494	662	810	-	-	-	-	
	BRG	-	-	-	1.5 / 3.3	1.9 / 4.7	2.6 / 6.5	3.4 / 8.6	4.2 / 10.5	-	-	-	-	

* 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.

2.0E ALLOWABLE UNIFORM LOADS ROOF NON-SNOW 125%

ALLOWABLE UNIFORM LOADS* – POUNDS PER LINEAL FOOT – 1 3/4" 2.0E PWLVL

Span (ft)	Key	Three 1 3/4" 2.0E PWLVL												
		3 1/2"	5 1/2"	7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 3/8"	14"	16"	18"	20"	22"	24"
6	LL	386	1498	-	-	-	-	-	-	-	-	-	-	-
	TL	397	1553	2864	3859	3991	4972	5348	6738	8233	9950	11943	14282	16878
	BRG	1.5 / 3	1.5 / 3	1.9 / 4.8	2.6 / 6.5	2.7 / 6.7	3.4 / 8.4	3.6 / 9	4.5 / 11.4	5.5 / 13.9	6.7 / 16.8	8 / 20.1	9.6 / 24.1	11.4 / 28.4
7	LL	-	-	-	-	-	-	-	-	-	-	-	-	-
	TL	212	835	1919	3187	3293	4065	4357	5422	6537	7782	9180	10763	12447
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.8	2.5 / 6.3	2.6 / 6.5	3.2 / 8	3.4 / 8.6	4.3 / 10.7	5.1 / 12.9	6.1 / 15.3	7.2 / 18.1	8.5 / 21.2	9.8 / 24.5
8	LL	-	-	-	-	-	-	-	-	-	-	-	-	-
	TL	486	1121	2715	2802	3438	3676	4535	5419	6388	7454	8632	9856	
	BRG	1.5 / 3	1.5 / 3	2.4 / 6.1	2.5 / 6.3	3.1 / 7.7	3.3 / 8.3	4.1 / 10.2	4.9 / 12.2	5.7 / 14.4	6.7 / 16.8	7.8 / 19.4	8.9 / 22.2	
9	LL	-	-	2111	2287	-	-	-	-	-	-	-	-	-
	TL	301	696	2363	2438	2977	3178	3896	4627	5416	6273	7205	8156	
	BRG	1.5 / 3	1.5 / 3	2.4 / 6	2.5 / 6.2	3 / 7.5	3.2 / 8.1	3.9 / 9.9	4.7 / 11.7	5.5 / 13.7	6.4 / 15.9	7.3 / 18.2	8.3 / 20.6	
10	LL	-	-	1539	1667	-	-	-	-	-	-	-	-	-
	TL	195	453	2025	2125	2625	2799	3415	4036	4700	5414	6181	6955	
	BRG	1.5 / 3	1.5 / 3	2.3 / 5.7	2.4 / 6	3 / 7.4	3.2 / 7.9	3.8 / 9.6	4.5 / 11.4	5.3 / 13.2	6.1 / 15.2	7 / 17.4	7.8 / 19.6	
11	LL	-	-	1156	1253	2080	2446	-	-	-	-	-	-	-
	TL	131	306	1529	1657	2347	2500	3039	3578	4151	4761	5411	6061	
	BRG	1.5 / 3	1.5 / 3	1.9 / 4.8	2.1 / 5.1	2.9 / 7.3	3.1 / 7.8	3.8 / 9.4	4.4 / 11.1	5.1 / 12.9	5.9 / 14.8	6.7 / 16.8	7.5 / 18.8	
12	LL	-	-	891	965	1602	1884	-	-	-	-	-	-	-
	TL	1175	1273	1997	2202	2737	3213	3716	4248	4811	5370	-	-	-
	BRG	1.5 / 3	1.6 / 4	1.7 / 4.3	2.7 / 6.8	3 / 7.5	3.7 / 9.3	4.3 / 10.9	5 / 12.6	5.7 / 14.4	6.5 / 16.3	7.3 / 18.2	-	-
13	LL	-	-	700	759	1260	1482	2429	-	-	-	-	-	-
	TL	152	921	999	1665	1874	2490	2916	3363	3834	4330	4819	-	-
	BRG	1.5 / 3	1.5 / 3.4	1.5 / 3.7	2.4 / 6.1	2.8 / 6.9	3.7 / 9.1	4.3 / 10.7	4.9 / 12.3	5.6 / 14.1	6.4 / 15.9	7.1 / 17.7	-	-
14	LL	-	-	608	1009	1187	1944	-	-	-	-	-	-	-
	TL	111	735	797	1330	1566	2173	2668	3071	3493	3936	4371	-	-
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.2	2.1 / 5.3	2.5 / 6.2	3.4 / 8.6	4.2 / 10.5	4.9 / 12.1	5.5 / 13.8	6.2 / 15.6	6.9 / 17.3	-	-
15	LL	-	-	456	494	820	965	1581	2360	-	-	-	-	-
	TL	595	646	1078	1270	1890	2406	2825	3208	3607	3998	-	-	-
	BRG	1.5 / 3	1.5 / 3	1.8 / 4.6	2.2 / 5.4	3.2 / 8	4.1 / 10.2	4.8 / 12	5.4 / 13.6	6.1 / 15.3	6.8 / 16.9	-	-	-
16	LL	-	-	376	407	676	795	1303	1944	-	-	-	-	-
	TL	488	530	886	1044	1659	2112	2613	2965	3329	3684	-	-	-
	BRG	1.5 / 3	1.5 / 3	1.6 / 4	1.9 / 4.8	3 / 7.5	3.8 / 9.6	4.7 / 11.8	5.4 / 13.4	6 / 15.1	6.7 / 16.7	-	-	-
17	LL	-	-	313	339	564	663	1086	1621	2308	-	-	-	-
	TL	405	439	736	867	1429	1869	2312	2756	3090	3415	-	-	-
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.6	1.7 / 4.2	2.8 / 6.9	3.6 / 9	4.5 / 11.1	5.3 / 13.3	5.9 / 14.9	6.6 / 16.4	-	-	-
18	LL	-	-	264	286	475	558	915	1366	1944	-	-	-	-
	TL	339	368	618	728	1201	1664	2060	2492	2883	3182	-	-	-
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.2	1.5 / 3.8	2.5 / 6.2	3.4 / 8.5	4.2 / 10.5	5.1 / 12.7	5.9 / 14.7	6.5 / 16.2	-	-	-
19	LL	-	-	243	404	475	778	1161	1653	-	-	-	-	-
	TL	311	523	617	1018	1491	1846	2234	2655	2979	-	-	-	-
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.4	2.2 / 5.5	3.2 / 8.1	4 / 10	4.8 / 12	5.7 / 14.3	6.4 / 16	-	-	-	-
20	LL	-	-	346	407	667	996	1418	1944	-	-	-	-	-
	TL	446	526	870	1306	1664	2014	2393	2775	-	-	-	-	-
	BRG	1.5 / 3	1.5 / 3	2 / 5	3 / 7.4	3.8 / 9.5	4.6 / 11.4	5.4 / 13.6	6.3 / 15.7	-	-	-	-	-
21	LL	-	-	299	352	576	860	1224	1680	-	-	-	-	-
	TL	383	453	749	1125	1507	1824	2168	2514	-	-	-	-	-
	BRG	1.5 / 3	1.5 / 3	1.8 / 4.5	2.7 / 6.7	3.6 / 9	4.4 / 10.9	5.2 / 12.9	6 / 15	-	-	-	-	-
22	LL	-	-	260	306	501	748	1065	1461	1944	-	-	-	-
	TL	331	392	649	975	1371	1659	1972	2287	-	-	-	-	-
	BRG	1.5 / 3	1.5 / 3	1.6 / 4.1	2.5 / 6.1	3.4 / 8.6	4.2 / 10.4	4.9 / 12.3	5.7 / 14.3	-	-	-	-	-
23	LL	-	-	268	439	655	932	1279	1702	-	-	-	-	-
	TL	341	566	851	1218	1516	1802	2090	-	-	-	-	-	-
	BRG	1.5 / 3	1.5 / 3.8	2.2 / 5.6	3.2 / 8	4 / 9.9	4.7 / 11.8	5.5 / 13.7	-	-	-	-	-	-
24	LL	-	-	386	576	820	1125	1498	1914	-	-	-	-	-
	TL	496	746	1069	1390	1653	1917	-	-	-	-	-	-	-
	BRG	1.5 / 3.5	2.1 / 5.2	2.9 / 7.4	3.8 / 9.5	4.5 / 11.3	5.2 / 13.1	-	-	-	-	-	-	-
25	LL	-	-	341	510	726	996	1325	1694	-	-	-	-	-
	TL	436	658	943	1279	1521	1764	-	-	-	-	-	-	-
	BRG	1.5 / 3.2	1.9 / 4.8	2.7 / 6.8	3.7 / 9.1	4.3 / 10.9	5 / 12.6	-	-	-	-	-	-	-
26	LL	-	-	304	453	645	885	1178	1506	-	-	-	-	-
	TL	386	582	836	1153	1404	1628	-	-	-	-	-	-	-
	BRG	1.5 / 3	1.8 / 4.4	2.5 / 6.3	3.4 / 8.6	4.2 / 10.4	4.8 / 12.1	-	-	-	-	-	-	-
27	LL	-	-	271	405	576	790	1052	1344	-	-	-	-	-
	TL	342	518	744	1026	1299	1508	-	-	-	-	-	-	-
	BRG	1.5 / 3	1.6 / 4.1	2.3 / 5.8	3.2 / 8	4 / 10.1	4.7 / 11.6	-	-	-	-	-	-	-
28	LL	-	-	243	363	517	709	943	1205	-	-	-	-	-
	TL	305	462	664	918	1206	1400	-	-	-	-	-	-	-
	BRG	1.5 / 3	1.5 / 3.8	2.2 / 5.4	3 / 7.4	3.9 / 9.7	4.5 / 11.2	-	-	-	-	-	-	-
29	LL	-	-	327	465	638	849	1085	-	-	-	-	-	-
	TL	414	595	823	1102	1303	-	-	-	-	-	-	-	-
	BRG	1.5 / 3.5	2 / 5	2.8 / 6.9	3.7 / 9.2	4.3 / 10.8	-	-	-	-	-	-	-	-
30	LL	-	-	295	420	576	767	980	-	-	-	-	-	-
	TL	371	535	741	992	1215	-	-	-	-	-	-	-	-
	BRG	1.5 / 3.3	1.9 / 4.7	2.6 / 6.5	3.4 / 8.6	4.2 / 10.5	-	-	-	-	-	-	-	-

* 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.

2.0E ALLOWABLE UNIFORM LOADS ROOF NON-SNOW 125%

ALLOWABLE UNIFORM LOADS* – POUNDS PER LINEAL FOOT – 1 3/4" 2.0E PWLVL

Span (ft)	Key	Four 1 3/4" 2.0E PWLVL												
		3 1/2"	5 1/2"	7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 3/8"	14"	16"	18"	20"	22"	24"
6	LL	515	1997	-	-	-	-	-	-	-	-	-	-	-
	TL	530	2070	3818	5145	5321	6630	7130	8984	10978	13267	15924	19043	22504
	BRG	1.5 / 3	1.5 / 3	1.9 / 4.8	2.6 / 6.5	2.7 / 6.7	3.4 / 8.4	3.6 / 9	4.5 / 11.4	5.5 / 13.9	6.7 / 16.8	8 / 20.1	9.6 / 24.1	11.4 / 28.4
7	LL	-	-	-	-	-	-	-	-	-	-	-	-	-
	TL	283	1113	2559	4250	4390	5420	5810	7229	8716	10376	12241	14350	16596
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.8	2.5 / 6.3	2.6 / 6.5	3.2 / 8	3.4 / 8.6	4.3 / 10.7	5.1 / 12.9	6.1 / 15.3	7.2 / 18.1	8.5 / 21.2	9.8 / 24.5
8	LL	-	-	-	-	-	-	-	-	-	-	-	-	-
	TL	648	1494	3619	3736	4583	4901	6046	7225	8517	9939	11510	13142	14978
	BRG	1.5 / 3	1.5 / 3	2.4 / 6.1	2.5 / 6.3	3.1 / 7.7	3.3 / 8.3	4.1 / 10.2	4.9 / 12.2	5.7 / 14.4	6.7 / 16.8	7.8 / 19.4	8.9 / 22.2	10.1 / 25.3
9	LL	-	-	2815	3049	-	-	-	-	-	-	-	-	-
	TL	401	928	3151	3250	3970	4237	5195	6169	7222	8364	9606	10875	12284
	BRG	1.5 / 3	1.5 / 3	2.4 / 6	2.5 / 6.2	3 / 7.5	3.2 / 8.1	3.9 / 9.9	4.7 / 11.7	5.5 / 13.7	6.4 / 15.9	7.3 / 18.2	8.3 / 20.6	9.4 / 23.3
10	LL	-	-	2052	2223	-	-	-	-	-	-	-	-	-
	TL	260	604	2700	2833	3500	3731	4553	5381	6267	7218	8241	9273	10373
	BRG	1.5 / 3	1.5 / 3	2.3 / 5.7	2.4 / 6	3 / 7.4	3.2 / 7.9	3.8 / 9.6	4.5 / 11.4	5.3 / 13.2	6.1 / 15.2	7 / 17.4	7.8 / 19.6	8.8 / 22.1
11	LL	-	-	1542	1670	2773	3262	-	-	-	-	-	-	-
	TL	174	409	2039	2209	3130	3333	4052	4771	5535	6348	7215	8081	8973
	BRG	1.5 / 3	1.5 / 3	1.9 / 4.8	2.1 / 5.1	2.9 / 7.3	3.1 / 7.8	3.8 / 9.4	4.4 / 11.1	5.1 / 12.9	5.9 / 14.8	6.7 / 16.8	7.5 / 18.8	8.4 / 20.9
12	LL	-	-	1187	1286	2136	2512	-	-	-	-	-	-	-
	TL	-	285	1566	1698	2663	2936	3650	4284	4955	5664	6414	7160	7933
	BRG	-	1.5 / 3	1.6 / 4	1.7 / 4.3	2.7 / 6.8	3 / 7.5	3.7 / 9.3	4.3 / 10.9	5 / 12.6	5.7 / 14.4	6.5 / 16.3	7.3 / 18.2	8.2 / 20.5
13	LL	-	-	934	1012	1680	1976	3238	-	-	-	-	-	-
	TL	-	203	1228	1332	2220	2499	3319	3887	4484	5112	5773	6426	7093
	BRG	-	1.5 / 3	1.5 / 3.4	1.5 / 3.7	2.4 / 6.1	2.8 / 6.9	3.7 / 9.1	4.3 / 10.7	4.9 / 12.3	5.6 / 14.1	6.4 / 15.9	7.1 / 17.7	7.9 / 19.7
14	LL	-	-	748	810	1345	1582	2593	-	-	-	-	-	-
	TL	-	148	980	1063	1773	2088	2897	3557	4095	4658	5248	5828	6426
	BRG	-	1.5 / 3	1.5 / 3	1.5 / 3.2	2.1 / 5.3	2.5 / 6.2	3.4 / 8.6	4.2 / 10.5	4.9 / 12.1	5.5 / 13.8	6.2 / 15.6	6.9 / 17.3	7.7 / 19.3
15	LL	-	-	608	659	1094	1286	2108	3146	-	-	-	-	-
	TL	-	794	861	1438	1694	2520	3208	3767	4277	4810	5331	5831	6331
	BRG	-	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.6	2.2 / 5.4	3.2 / 8	4.1 / 10.2	4.8 / 12	5.4 / 13.6	6.1 / 15.3	6.8 / 16.9	7.6 / 19
16	LL	-	-	501	543	901	1060	1737	2593	-	-	-	-	-
	TL	-	651	706	1181	1392	2212	2816	3485	3954	4439	4912	5373	5831
	BRG	-	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 4	1.9 / 4.8	3 / 7.5	3.8 / 9.6	4.7 / 11.8	5.4 / 13.4	6 / 15.1	6.7 / 16.7	7.4 / 18.3
17	LL	-	-	418	452	751	884	1448	2161	3078	-	-	-	-
	TL	-	540	586	981	1157	1905	2491	3083	3675	4120	4553	4973	5393
	BRG	-	1.5 / 3	1.5 / 3	1.5 / 3.6	1.7 / 4.2	2.8 / 6.9	3.6 / 9	4.5 / 11.1	5.3 / 13.3	5.9 / 14.9	6.6 / 16.4	7.3 / 18.1	8.1 / 20.1
18	LL	-	-	352	381	633	744	1220	1821	2593	-	-	-	-
	TL	-	452	491	823	971	1601	2219	2746	3323	3844	4243	4626	4993
	BRG	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.5 / 3.8	2.5 / 6.2	3.4 / 8.5	4.2 / 10.5	5.1 / 12.7	5.9 / 14.7	6.5 / 16.2	7.2 / 17.8
19	LL	-	-	324	538	633	1037	1548	2204	-	-	-	-	-
	TL	-	415	697	822	1357	1989	2462	2979	3539	3972	4431	4831	5231
	BRG	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	2.2 / 5.5	3.2 / 8.1	4 / 10	4.8 / 12	5.7 / 14.3	6.4 / 16	7.1 / 17.7	7.8 / 19.4
20	LL	-	-	461	543	889	1327	1890	2593	-	-	-	-	-
	TL	-	595	702	1160	1741	2218	2685	3190	3699	4199	4699	5199	5699
	BRG	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	2 / 5	3 / 7.4	3.8 / 9.5	4.6 / 11.4	5.4 / 13.6	6.3 / 15.7	7.1 / 17.8	7.9 / 19.9
21	LL	-	-	399	469	768	1147	1633	2240	-	-	-	-	-
	TL	-	511	603	999	1500	2009	2432	2890	3351	3793	4231	4669	5107
	BRG	-	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.5	2.7 / 6.7	3.6 / 9	4.4 / 10.9	5.2 / 12.9	6 / 15	6.8 / 17.1	7.6 / 19.1	8.4 / 20.1
22	LL	-	-	347	408	668	997	1420	1948	2593	-	-	-	-
	TL	-	442	522	865	1301	1828	2213	2630	3050	3469	3889	4309	4729
	BRG	-	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 4.1	2.5 / 6.1	3.4 / 8.6	4.2 / 10.4	4.9 / 12.3	5.7 / 14.3	6.5 / 16.3	7.3 / 18.3	8.1 / 20.3
23	LL	-	-	357	585	873	1243	1705	2269	-	-	-	-	-
	TL	-	454	754	1135	1624	2021	2403	2787	3171	3555	3939	4323	4707
	BRG	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.2 / 5.6	3.2 / 8	4 / 9.9	4.7 / 11.8	5.5 / 13.7	6.3 / 15.6	7.1 / 17.5
24	LL	-	-	515	768	1094	1500	1997	2552	-	-	-	-	-
	TL	-	661	995	1426	1853	2203	2556	2910	3264	3618	3972	4326	4680
	BRG	-	1.5 / 3.5	2.1 / 5.2	2.9 / 7.4	3.8 / 9.5	4.5 / 11.3	5.2 / 13.1	5.9 / 14.9	6.6 / 16.4	7.3 / 18.1	8.0 / 19.9	8.7 / 21.7	9.4 / 23.3
25	LL	-	-	455	680	968	1327	1767	2258	-	-	-	-	-
	TL	-	582	877	1258	1705	2027	2352	2677	3002	3327	3652	3977	4302
	BRG	-	1.5 / 3.2	1.9 / 4.8	2.7 / 6.8	3.7 / 9.1	4.3 / 10.9	5 / 12.6	5.7 / 14.4	6.4 / 16.2	7.1 / 17.9	7.8 / 19.7	8.5 / 21.5	9.2 / 23.3
26	LL	-	-	405	604	860	1180	1571	2007	-	-	-	-	-
	TL	-	514	776	1114	1537	1872	2171	2470	2769	3068	3367	3666	3965
	BRG	-	1.5 / 3	1.8 / 4.4	2.5 / 6.3	3.4 / 8.6	4.2 / 10.4	4.8 / 12.1	5.5 / 13.8	6.2 / 15.6	6.9 / 17.3	7.6 / 19.1	8.3 / 20.8	9.0 / 22.5
27	LL	-	-	361	540	768	1054	1403	1793	-	-	-	-	-
	TL	-	456	690	992	1369	1733	2010	2287	2564	2841	3118	3395	3672
	BRG	-	1.5 / 3	1.6 / 4.1	2.3 / 5.8	3.2 / 8	4 / 10.1	4.7 / 11.6	5.4 / 13.1	6.1 / 14.6	6.8 / 16.1	7.5 / 17.6	8.2 / 19.1	8.9 / 20.6
28	LL	-	-	324	484	689	945	1258	1607	-	-	-	-	-
	TL	-	407	616	886	1223	1608	1866	2124	2382	2640	2898	3156	3414
	BRG	-	1.5 / 3	1.5 / 3.8	2.2 / 5.4	3 / 7.4	3.9 / 9.7	4.5 / 11.2	5.1 / 12.7	5.8 / 14.2	6.5 / 15.7	7.2 / 17.2	7.9 / 18.7	8.6 / 19.2
29	LL	-	-	435	620	850	1132	1447	1737	-	-	-	-	-
	TL	-	551	794	1098	1469	1737	2006	2274	2542	2810	3078	3346	3614
	BRG	-	1.5 / 3.5	2 / 5	2.8 / 6.9	3.7 / 9.2	4.3 / 10.8	4.9 / 12.4	5.5 / 13.9	6.1 / 15.4	6.7 / 16.9	7.3 / 18.4	7.9 / 19.9	8.5 / 21.4
30	LL	-	-	393	560	768	1022	1307	1607	-	-	-	-	-
	TL	-	495	714	988	1323	1620	1917	2214	2511	2808	3105	3402	3699
	BRG	-	1.5 / 3.3	1.9 / 4.7	2.6 / 6.5	3.4 / 8.6	4.2 / 10.5	4.9 / 12.4	5.7 / 14.3	6.4 / 16.2	7.1 / 17.1	7.8 / 18.0	8.5 / 18.9	9.2 / 19.8

* 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.