

## Allowable Uniform Loads

# 1.6E Beam-Roof Non-Snow 125%

ALLOWABLE UNIFORM LOADS\* – POUNDS PER LINEAL FOOT

ONE x 1 3/4" 1.6E PWLVL

Span (ft)	Key	3 1/2"	5 1/2"	7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 1/8"	14"
6	LL	96	374	-	-	-	-	-	-
	TL	99	388	770	1037	1073	1337	1438	1811
	BRG	1.5 / 3	1.5 / 3	1.8 / 4.4	2.4 / 5.9	2.5 / 6.2	3.1 / 7.7	3.3 / 8.2	4.2 / 10.4
7	LL	-	-	-	-	-	-	-	-
	TL	53	208	479	857	885	1093	1171	1457
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.2	2.3 / 5.7	2.4 / 5.9	2.9 / 7.3	3.1 / 7.8	3.9 / 9.8
8	LL	-	-	-	-	-	-	-	-
	TL	-	121	279	729	753	924	988	1219
	BRG	-	1.5 / 3	1.5 / 3	2.2 / 5.6	2.3 / 5.8	2.8 / 7.1	3 / 7.6	3.7 / 9.3
9	LL	-	-	-	528	572	-	-	-
	TL	-	75	173	604	634	800	854	1047
	BRG	-	1.5 / 3	1.5 / 3	2.1 / 5.2	2.2 / 5.5	2.8 / 6.9	2.9 / 7.4	3.6 / 9
10	LL	-	-	-	385	417	692	-	-
	TL	-	48	112	489	513	696	752	917
	BRG	-	1.5 / 3	1.5 / 3	1.9 / 4.7	2 / 4.9	2.7 / 6.7	2.9 / 7.2	3.5 / 8.8
11	LL	-	-	-	289	313	520	612	-
	TL	-	32	76	381	413	574	633	816
	BRG	-	1.5 / 3	1.5 / 3	1.6 / 4	1.7 / 4.4	2.4 / 6.1	2.7 / 6.7	3.4 / 8.6
12	LL	-	-	-	223	241	401	471	-
	TL	-	-	53	293	317	482	531	715
	BRG	-	-	1.5 / 3	1.5 / 3.4	1.5 / 3.7	2.2 / 5.6	2.5 / 6.1	3.3 / 8.2
13	LL	-	-	-	175	190	315	371	607
	TL	-	-	37	229	249	410	452	609
	BRG	-	-	1.5 / 3	1.5 / 3	1.5 / 3.1	2.1 / 5.1	2.3 / 5.7	3 / 7.6
14	LL	-	-	-	140	152	252	297	486
	TL	-	-	27	183	198	331	389	524
	BRG	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.5	2.1 / 5.3	2.8 / 7.1
15	LL	-	-	-	114	123	205	241	395
	TL	-	-	-	148	160	268	316	456
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.6 / 3.9	1.8 / 4.6	2.6 / 6.6
16	LL	-	-	-	94	102	169	199	326
	TL	-	-	-	121	131	220	260	400
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.4	1.6 / 4	2.5 / 6.2
17	LL	-	-	-	78	85	141	166	272
	TL	-	-	-	100	109	183	216	353
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	2.3 / 5.8
18	LL	-	-	-	66	71	119	140	229
	TL	-	-	-	84	91	153	181	299
	BRG	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	2.1 / 5.2
19	LL	-	-	-	61	61	101	119	194
	TL	-	-	-	77	77	129	153	253
	BRG	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 4.7
20	LL	-	-	-	-	87	102	167	-
	TL	-	-	-	-	110	130	216	-
	BRG	-	-	-	-	1.5 / 3	1.5 / 3	1.7 / 4.2	-
21	LL	-	-	-	-	75	88	144	-
	TL	-	-	-	-	95	112	186	-
	BRG	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.8	-
22	LL	-	-	-	-	65	76	125	-
	TL	-	-	-	-	82	97	161	-
	BRG	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.5	-
23	LL	-	-	-	-	-	67	110	-
	TL	-	-	-	-	-	84	140	-
	BRG	-	-	-	-	-	1.5 / 3	1.5 / 3.2	-
24	LL	-	-	-	-	-	-	96	-
	TL	-	-	-	-	-	-	122	-
	BRG	-	-	-	-	-	-	1.5 / 3	-
25	LL	-	-	-	-	-	-	85	-
	TL	-	-	-	-	-	-	107	-
	BRG	-	-	-	-	-	-	1.5 / 3	-
26	LL	-	-	-	-	-	-	76	-
	TL	-	-	-	-	-	-	95	-
	BRG	-	-	-	-	-	-	1.5 / 3	-
27	LL	-	-	-	-	-	-	68	-
	TL	-	-	-	-	-	-	84	-
	BRG	-	-	-	-	-	-	1.5 / 3	-
28	LL	-	-	-	-	-	-	61	-
	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/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 750 psi.



