



Wide Port Orford Cedar Boise Glulam® Load Tables

The following pages provide maximum uniform PLF design load tables for 8 ¾" and 10 ¾" wide Boise Glulam 22F-V14/POC beams in floor, roof with snow, and non-snow roof applications for both simple and multiple spans. Tables for all applications are provided for both dry use (pages 2-7) and wet use (pages 8-13) conditions. For further information regarding dry and wet use, please refer to Boise Cascade Technical Note BG-8, *Cedar Glulam Design in Exterior Applications*.

The wide Boise Glulam 22F-V14/POC beams may also be designed using the BC Calc® sizing software in all applications and conditions, including concentrated and partial uniform loads not covered in the following tables.

Please refer to the notes at the bottom of each load table for design assumptions and limitations.



Allowable Floor Load [plf]

KEY TO TABLE:
Top Figure = Allowable Total Load [plf] for Simple Spans Only
Middle Figure = Total Load [plf] for Multiple Spans
Bottom Figure = Minimum Required Bearing Lengths at End / Intermediate Supports [in]

22F-V14/POC Grade - 100% Load Duration - Dry-Use Conditions

Span [ft]	Span Type	8.75" BOISE Glulam												
		12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"	25.5"	27"	28.5"	30"
10	Simple	3054	3869	4773	5724	6756	7868	9061	10333	11684	11706	11703	11699	11696
	Multiple	2284	2895	3572	4284	5057	5839	5835	5832	5829	5826	5823	5819	5816
	Min. Bearing	3.1 / 5.9	4 / 7.5	4.9 / 9.2	5.9 / 11	6.9 / 13	8.1 / 15	9.3 / 15	10.6 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
12	Simple	2113	2653	3244	3892	4594	5352	6164	7031	7951	8925	9743	9739	9736
	Multiple	1579	1983	2425	2910	3436	4004	4612	4852	4849	4846	4843	4839	4836
	Min. Bearing	2.6 / 4.9	3.3 / 6.2	4 / 7.5	4.8 / 9	5.7 / 10.6	6.6 / 12.4	7.6 / 14.3	8.7 / 15	9.8 / 15	11 / 15	12 / 15	12 / 15	12 / 15
14	Simple	1420	1912	2338	2806	3313	3861	4447	5073	5738	6442	7184	7964	8336
	Multiple	1138	1426	1746	2096	2475	2885	3324	3793	4149	4146	4143	4139	4136
	Min. Bearing	2.1 / 4.2	2.8 / 5.2	3.4 / 6.3	4.1 / 7.6	4.8 / 9	5.6 / 10.5	6.4 / 12	7.3 / 13.7	8.3 / 15	9.3 / 15	10.3 / 15	11.5 / 15	12 / 15
16	Simple	943	1350	1759	2111	2494	2906	3349	3821	4323	4853	5413	6002	6619
	Multiple	853	1071	1311	1575	1861	2169	2501	2854	3229	3621	3618	3614	3611
	Min. Bearing	1.6 / 3.6	2.3 / 4.5	2.9 / 5.5	3.5 / 6.6	4.1 / 7.8	4.8 / 9	5.5 / 10.4	6.3 / 11.8	7.1 / 13.4	8 / 15	8.9 / 15	9.9 / 15	10.9 / 15
18	Simple	655	940	1297	1641	1939	2260	2605	2973	3364	3778	4214	4673	5155
	Multiple	661	830	1017	1222	1445	1685	1943	2218	2510	2820	3146	3206	3203
	Min. Bearing	1.5 / 3.2	1.8 / 3.9	2.4 / 4.8	3.1 / 5.8	3.6 / 6.8	4.2 / 7.9	4.9 / 9.1	5.5 / 10.4	6.3 / 11.8	7 / 13.2	7.8 / 14.7	8.7 / 15	9.6 / 15
20	Simple	470	677	937	1254	1546	1804	2079	2374	2686	3017	3367	3734	4119
	Multiple	525	659	809	972	1150	1342	1548	1768	2002	2249	2511	2785	2876
	Min. Bearing	1.5 / 3	1.5 / 3.5	2 / 4.3	2.6 / 5.1	3.2 / 6.1	3.8 / 7.1	4.3 / 8.1	4.9 / 9.3	5.6 / 10.5	6.3 / 11.8	7 / 13.1	7.7 / 14.5	8.5 / 15
22	Simple	347	502	696	933	1219	1469	1694	1934	2190	2460	2745	3045	3360
	Multiple	425	535	656	790	935	1091	1259	1439	1630	1832	2045	2269	2504
	Min. Bearing	1.5 / 3	1.5 / 3.2	1.6 / 3.9	2.2 / 4.6	2.8 / 5.5	3.4 / 6.4	3.9 / 7.3	4.4 / 8.3	5 / 9.4	5.6 / 10.6	6.3 / 11.8	7 / 13.1	7.7 / 14.4
24	Simple	261	380	529	711	930	1190	1404	1603	1816	2040	2277	2527	2788
	Multiple	350	440	541	652	772	902	1042	1191	1349	1517	1694	1880	2075
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.2	2.4 / 5	3 / 5.8	3.5 / 6.7	4 / 7.6	4.6 / 8.6	5.1 / 9.6	5.7 / 10.7	6.3 / 11.9	7 / 13.1
26	Simple	200	293	409	552	723	927	1165	1348	1527	1716	1916	2126	2347
	Multiple	271	368	453	546	647	756	874	999	1132	1274	1423	1580	1744
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.2	1.6 / 3.9	2 / 4.5	2.6 / 5.3	3.2 / 6.1	3.7 / 6.9	4.2 / 7.8	4.7 / 8.8	5.2 / 9.8	5.8 / 10.9	6.4 / 12
28	Simple	155	229	321	435	572	734	924	1143	1299	1461	1632	1811	2000
	Multiple	212	310	383	462	548	641	741	848	962	1082	1209	1343	1484
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.7 / 4.2	2.2 / 4.9	2.8 / 5.6	3.4 / 6.4	3.9 / 7.2	4.3 / 8.1	4.8 / 9	5.3 / 10	5.9 / 11.1
30	Simple	121	180	255	347	458	589	743	921	1117	1257	1404	1559	1721
	Multiple	168	246	327	395	469	549	635	727	825	929	1039	1154	1275
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.9	1.9 / 4.5	2.4 / 5.2	3 / 5.9	3.6 / 6.7	4 / 7.5	4.5 / 8.4	5 / 9.3	5.5 / 10.2
32	Simple	96	144	205	280	370	478	604	750	917	1091	1219	1354	1495
	Multiple	134	198	279	340	405	474	549	629	714	804	900	1000	1105
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.5 / 3.6	1.7 / 4.2	2.1 / 4.8	2.6 / 5.5	3.2 / 6.2	3.7 / 7	4.2 / 7.8	4.6 / 8.7	5.1 / 9.5
34	Simple	75	115	165	227	302	392	496	617	756	914	1066	1184	1309
	Multiple	107	160	227	295	352	413	478	548	623	702	785	873	966
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.5 / 3.9	1.9 / 4.5	2.3 / 5.2	2.8 / 5.8	3.4 / 6.6	3.9 / 7.3	4.3 / 8.1	4.8 / 8.9
36	Simple	59	92	134	186	249	323	411	513	629	762	911	1044	1153
	Multiple	86	131	186	256	308	361	419	481	546	616	690	768	849
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.5 / 3.7	1.7 / 4.3	2.1 / 4.9	2.5 / 5.5	3 / 6.2	3.6 / 6.9	4.1 / 7.6	4.5 / 8.4
38	Simple	47	74	109	153	206	269	343	429	527	639	766	908	1023
	Multiple	70	107	154	212	270	318	369	424	482	544	610	679	751
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.5 / 4	1.8 / 4.6	2.2 / 5.2	2.7 / 5.8	3.2 / 6.5	3.8 / 7.2	4.2 / 7.9
40	Simple	36	60	89	126	171	224	288	361	445	541	649	770	905
	Multiple	56	87	127	177	237	281	327	376	428	483	542	603	668
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.8	1.7 / 4.3	2 / 4.9	2.4 / 5.5	2.9 / 6.1	3.4 / 6.8	4 / 7.5	
42	Simple	-	48	73	104	142	188	242	305	377	460	552	657	773
	Multiple	-	72	106	148	199	250	291	335	381	431	483	539	597
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.5 / 3.6	1.5 / 4.1	1.8 / 4.6	2.2 / 5.2	2.6 / 5.8	3.1 / 6.4	3.6 / 7.1
44	Simple	-	38	59	86	119	158	205	259	321	393	473	563	664
	Multiple	-	58	88	124	168	221	260	299	341	386	433	483	535
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.5 / 3.9	1.7 / 4.4	2 / 4.9	2.4 / 5.5	2.8 / 6.1	3.3 / 6.7

- Total Load values are limited by shear, moment or deflection equal to L/240. Total Load values are the capacity of the beam in addition to its own weight.
- Live Load values are limited by deflection equal to L/360. Check with project's design professional of record for other possible deflection limits.
- Live load is equal to 0.8 of total load (residential loading).
- Table assumes dry-use conditions, moisture content of beam not to exceed 16%.
- Table values assume that lateral support is provided at each support and continuously along the compression edge of the beam.
- Table values for Minimum Required Bearing Lengths are based on the allowable compression design value perpendicular to grain for the beam and the Total Load value shown. Other design considerations, such as a weaker support material, may warrant longer bearing lengths. Table values assume that support is provided across the full width of the beam.
- This table was designed to apply to a broad range of applications. It may be possible to exceed the limitations of this table by analyzing a specific application with the BC Calc software.
- For longer span applications, camber shall be considered by project's design professional of record.



KEY TO TABLE:

Top Figure = Allowable Total Load [plf] for Simple Spans Only

Middle Figure = Total Load [plf] for Multiple Spans

Bottom Figure = Minimum Required Bearing Lengths at End / Intermediate Supports [in]

Allowable Floor Load [plf]

22F-V14/POC Grade - 100% Load Duration - Dry-Use Conditions

Span [ft]	Span Type	10.75" BOISE Glulam												
		15"	16.5"	18"	19.5"	21"	22.5"	24"	25.5"	27"	28.5"	30"	31.5"	33"
10	Simple	5744	6888	8130	9469	10904	12435	14061	14381	14377	14374	14370	14366	14362
	Multiple	4298	5155	6085	7089	7169	7165	7161	7157	7153	7150	7146	7142	7138
	Min. Bearing	4.8 / 9	5.8 / 10.8	6.8 / 12.7	7.9 / 14.8	9.1 / 15	10.4 / 15	11.7 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
12	Simple	3904	4683	5529	6441	7418	8461	9568	10740	11969	11966	11962	11958	11954
	Multiple	2918	3501	4135	4818	5550	5961	5957	5953	5949	5946	5942	5938	5934
	Min. Bearing	3.9 / 7.4	4.7 / 8.8	5.6 / 10.4	6.5 / 12.1	7.4 / 14	8.5 / 15	9.6 / 15	10.8 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
14	Simple	2814	3376	3987	4645	5351	6105	6905	7752	8645	9584	10242	10238	10234
	Multiple	2100	2521	2978	3471	4000	4564	5097	5093	5089	5086	5082	5078	5074
	Min. Bearing	3.3 / 6.2	4 / 7.5	4.7 / 8.8	5.5 / 10.2	6.3 / 11.8	7.2 / 13.4	8.1 / 15	9.1 / 15	10.1 / 15	11.2 / 15	12 / 15	12 / 15	12 / 15
16	Simple	2116	2540	3000	3497	4029	4598	5201	5840	6514	7222	7965	8742	8944
	Multiple	1577	1894	2238	2610	3008	3434	3885	4363	4444	4441	4437	4433	4429
	Min. Bearing	2.9 / 5.4	3.4 / 6.4	4 / 7.6	4.7 / 8.8	5.4 / 10.2	6.2 / 11.6	7 / 13.1	7.8 / 14.7	8.7 / 15	9.7 / 15	10.7 / 15	11.7 / 15	12 / 15
18	Simple	1593	1974	2333	2720	3134	3577	4048	4546	5071	5623	6202	6809	7441
	Multiple	1223	1470	1738	2027	2337	2668	3020	3393	3785	3939	3935	3931	3927
	Min. Bearing	2.4 / 4.7	3 / 5.7	3.6 / 6.7	4.1 / 7.8	4.8 / 8.9	5.4 / 10.2	6.1 / 11.5	6.9 / 12.9	7.7 / 14.4	8.5 / 15	9.4 / 15	10.3 / 15	11.3 / 15
20	Simple	1151	1540	1860	2170	2501	2856	3232	3630	4050	4492	4956	5441	5947
	Multiple	972	1169	1383	1614	1862	2127	2408	2706	3020	3351	3534	3530	3526
	Min. Bearing	2 / 4.2	2.6 / 5	3.2 / 5.9	3.7 / 6.9	4.2 / 8	4.8 / 9.1	5.5 / 10.3	6.1 / 11.5	6.8 / 12.8	7.6 / 14.2	8.4 / 15	9.2 / 15	10 / 15
22	Simple	855	1147	1498	1767	2038	2327	2634	2960	3303	3664	4043	4439	4853
	Multiple	789	949	1124	1312	1515	1730	1960	2203	2459	2729	3012	3201	3197
	Min. Bearing	1.6 / 3.8	2.2 / 4.5	2.8 / 5.3	3.3 / 6.2	3.8 / 7.2	4.4 / 8.2	4.9 / 9.2	5.5 / 10.4	6.2 / 11.6	6.8 / 12.8	7.5 / 14.1	8.3 / 15	9 / 15
24	Simple	649	873	1143	1462	1688	1928	2184	2454	2739	3040	3354	3684	4028
	Multiple	651	784	928	1085	1252	1432	1622	1824	2037	2261	2496	2742	2924
	Min. Bearing	1.5 / 3.4	1.8 / 4.1	2.4 / 4.9	3 / 5.7	3.5 / 6.5	4 / 7.4	4.5 / 8.4	5 / 9.4	5.6 / 10.5	6.2 / 11.6	6.8 / 12.8	7.5 / 14.1	8.2 / 15
26	Simple	502	678	889	1139	1419	1621	1836	2064	2305	2558	2823	3101	3391
	Multiple	544	656	777	909	1050	1201	1362	1531	1711	1900	2098	2305	2522
	Min. Bearing	1.5 / 3.1	1.6 / 3.8	2 / 4.5	2.6 / 5.2	3.2 / 6	3.6 / 6.8	4.1 / 7.7	4.6 / 8.6	5.1 / 9.6	5.7 / 10.7	6.3 / 11.7	6.9 / 12.9	7.5 / 14.1
28	Simple	394	534	702	902	1135	1379	1563	1757	1962	2178	2405	2642	2890
	Multiple	460	555	659	771	891	1019	1156	1301	1454	1615	1784	1961	2146
	Min. Bearing	1.5 / 3	1.5 / 3.5	1.7 / 4.1	2.2 / 4.8	2.8 / 5.5	3.3 / 6.3	3.8 / 7.1	4.2 / 8	4.7 / 8.9	5.2 / 9.8	5.8 / 10.8	6.3 / 11.9	6.9 / 13
30	Simple	313	426	562	724	912	1131	1343	1511	1688	1875	2070	2275	2489
	Multiple	393	474	563	660	763	874	992	1117	1248	1387	1533	1686	1845
	Min. Bearing	1.5 / 3	1.5 / 3.2	1.5 / 3.8	1.9 / 4.4	2.4 / 5.1	3 / 5.8	3.5 / 6.6	3.9 / 7.4	4.4 / 8.2	4.9 / 9.1	5.4 / 10	5.9 / 11	6.4 / 12
32	Simple	251	344	455	587	742	922	1127	1311	1465	1627	1798	1976	2162
	Multiple	338	409	486	570	660	756	858	967	1081	1202	1329	1462	1600
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.5	1.7 / 4.1	2.1 / 4.7	2.6 / 5.4	3.2 / 6.1	3.7 / 6.9	4.1 / 7.7	4.5 / 8.5	5 / 9.3	5.5 / 10.3	6 / 11.2
34	Simple	203	279	371	481	610	759	929	1123	1282	1424	1574	1730	1894
	Multiple	279	355	422	496	574	658	748	843	944	1049	1161	1277	1399
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.9	1.9 / 4.4	2.3 / 5.1	2.8 / 5.7	3.4 / 6.4	3.8 / 7.2	4.2 / 7.9	4.7 / 8.7	5.1 / 9.6	5.6 / 10.5
36	Simple	165	228	305	397	505	630	773	936	1119	1255	1387	1525	1670
	Multiple	229	310	369	434	503	577	656	740	829	922	1020	1123	1231
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.1	1.5 / 3.6	1.7 / 4.2	2.1 / 4.8	2.5 / 5.4	3 / 6	3.6 / 6.7	4 / 7.5	4.4 / 8.2	4.8 / 9	5.3 / 9.8
38	Simple	134	188	253	330	421	527	648	786	941	1112	1229	1353	1481
	Multiple	189	261	325	382	443	509	579	654	732	815	902	994	1089
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.5 / 3.9	1.8 / 4.5	2.2 / 5.1	2.7 / 5.7	3.2 / 6.3	3.7 / 7	4.1 / 7.7	4.5 / 8.5	4.9 / 9.3
40	Simple	110	155	210	276	353	443	546	664	797	946	1096	1206	1321
	Multiple	156	217	287	338	392	451	514	580	650	724	802	884	969
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.5 / 3.7	1.7 / 4.2	2 / 4.8	2.4 / 5.4	2.9 / 6	3.4 / 6.6	3.9 / 7.3	4.3 / 8	4.7 / 8.8
42	Simple	89	128	175	231	298	375	464	565	679	807	949	1081	1184
	Multiple	130	182	245	300	349	401	458	517	580	647	717	790	867
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.5 / 3.5	1.5 / 4	1.8 / 4.5	2.2 / 5.1	2.6 / 5.7	3.1 / 6.3	3.6 / 6.9	4.1 / 7.6	4.4 / 8.3
44	Simple	73	106	146	195	252	318	395	482	581	692	816	952	1066
	Multiple	108	152	207	267	311	359	409	463	520	580	643	709	778
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.8	1.7 / 4.3	2 / 4.8	2.4 / 5.4	2.8 / 6	3.3 / 6.6	3.8 / 7.2	4.2 / 7.9

- Total Load values are limited by shear, moment or deflection equal to L/240. Total Load values are the capacity of the beam in addition to its own weight.
- Live Load values are limited by deflection equal to L/360. Check with project's design professional of record for other possible deflection limits.
- Live load is equal to 0.8 of total load (residential loading).
- Table assumes dry-use conditions, moisture content of beam not to exceed 16%.
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- Table values for Minimum Required Bearing Lengths are based on the allowable compression design value perpendicular to grain for the beam and the Total Load value shown. Other design considerations, such as a weaker support material, may warrant longer bearing lengths. Table values assume that support is provided across the full width of the beam.
- This table was designed to apply to a broad range of applications. It may be possible to exceed the limitations of this table by analyzing a specific application with the BC Calc software.
- For longer span applications, camber shall be considered by project's design professional of record.



Allowable Snow Roof Load [plf]

KEY TO TABLE:

Top Figure = Allowable Total Load [plf] for Simple Spans Only

Middle Figure = Total Load [plf] for Multiple Spans

Bottom Figure = Minimum Required Bearing Lengths at End / Intermediate Supports [in]

22F-V14/POC Grade - 115% Load Duration - Dry-Use Conditions

Span [ft]	Span Type	8.75" BOISE Glulam												
		12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"	25.5"	27"	28.5"	30"
10	Simple	3516	4454	5494	6587	7775	9055	10427	11712	11709	11706	11703	11699	11696
	Multiple	2631	3333	4112	4932	5821	6839	7985	9332	10785	12348	14021	15804	17706
	Min. Bearing	3.6 / 6.8	4.6 / 8.6	5.6 / 10.6	6.8 / 12.7	8 / 14.9	9.3 / 15	10.7 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
12	Simple	2434	3056	3736	4481	5289	6161	7096	8093	9152	9746	9743	9739	9736
	Multiple	1819	2284	2794	3352	3957	4611	4855	4852	4849	4846	4843	4839	4836
	Min. Bearing	3 / 5.6	3.8 / 7.1	4.6 / 8.7	5.5 / 10.4	6.5 / 12.2	7.6 / 14.2	8.7 / 15	10 / 15	11.3 / 15	12 / 15	12 / 15	12 / 15	12 / 15
14	Simple	1758	2203	2694	3232	3816	4446	5121	5842	6607	7416	8270	8339	8336
	Multiple	1312	1645	2012	2415	2852	3324	3830	4152	4149	4146	4143	4139	4136
	Min. Bearing	2.5 / 4.8	3.2 / 6	3.9 / 7.3	4.7 / 8.8	5.5 / 10.3	6.4 / 12	7.4 / 13.8	8.4 / 15	9.5 / 15	10.7 / 15	11.9 / 15	12 / 15	12 / 15
16	Simple	1322	1657	2027	2433	2874	3349	3858	4401	4979	5590	6234	6911	7286
	Multiple	985	1236	1513	1816	2146	2501	2882	3289	3624	3621	3618	3614	3611
	Min. Bearing	2.2 / 4.1	2.8 / 5.2	3.4 / 6.3	4 / 7.6	4.8 / 8.9	5.5 / 10.4	6.4 / 11.9	7.3 / 13.6	8.2 / 15	9.2 / 15	10.3 / 15	11.4 / 15	12 / 15
18	Simple	1027	1288	1576	1892	2235	2606	3003	3426	3877	4353	4855	5384	5938
	Multiple	764	959	1174	1410	1667	1944	2241	2558	2895	3212	3209	3206	3203
	Min. Bearing	1.9 / 3.6	2.4 / 4.5	3 / 5.5	3.5 / 6.6	4.2 / 7.8	4.9 / 9.1	5.6 / 10.5	6.4 / 12	7.2 / 13.5	8.1 / 15	9 / 15	10 / 15	11 / 15
20	Simple	768	1026	1257	1510	1784	2080	2398	2737	3097	3478	3880	4303	4746
	Multiple	607	763	935	1123	1329	1550	1787	2041	2310	2595	2883	2879	2876
	Min. Bearing	1.6 / 3.2	2.2 / 4	2.6 / 4.9	3.2 / 5.9	3.7 / 7	4.3 / 8.1	5 / 9.3	5.7 / 10.7	6.4 / 12	7.2 / 13.5	8 / 15	8.9 / 15	9.8 / 15
22	Simple	571	820	1023	1229	1454	1695	1955	2232	2526	2837	3166	3511	3874
	Multiple	492	619	759	913	1081	1261	1455	1662	1882	2114	2360	2612	2609
	Min. Bearing	1.5 / 3	1.9 / 3.6	2.4 / 4.4	2.8 / 5.3	3.3 / 6.3	3.9 / 7.3	4.5 / 8.4	5.1 / 9.6	5.8 / 10.8	6.5 / 12.2	7.2 / 13.6	8 / 15	8.8 / 15
24	Simple	434	625	847	1018	1204	1405	1621	1851	2096	2354	2628	2915	3216
	Multiple	406	511	627	755	894	1044	1205	1376	1559	1752	1956	2171	2386
	Min. Bearing	1.5 / 3	1.6 / 3.3	2.2 / 4	2.6 / 4.8	3 / 5.7	3.5 / 6.6	4.1 / 7.6	4.7 / 8.7	5.3 / 9.9	5.9 / 11.1	6.6 / 12.3	7.3 / 13.7	8 / 15
26	Simple	336	485	673	855	1012	1182	1363	1557	1763	1982	2212	2454	2709
	Multiple	339	427	525	633	750	876	1011	1156	1310	1473	1645	1826	2016
	Min. Bearing	1.5 / 3	1.5 / 3	1.9 / 3.7	2.4 / 4.4	2.8 / 5.2	3.2 / 6.1	3.7 / 7	4.3 / 8	4.8 / 9	5.4 / 10.1	6 / 11.3	6.7 / 12.5	7.4 / 13.8
28	Simple	264	383	533	716	861	1005	1160	1326	1502	1688	1885	2092	2309
	Multiple	287	362	445	536	636	744	859	982	1114	1253	1399	1554	1716
	Min. Bearing	1.5 / 3	1.5 / 3	1.6 / 3.4	2.1 / 4.1	2.6 / 4.8	3 / 5.6	3.4 / 6.5	3.9 / 7.4	4.4 / 8.3	5 / 9.3	5.5 / 10.4	6.2 / 11.5	6.8 / 12.7
30	Simple	210	306	427	576	740	864	998	1141	1292	1453	1623	1802	1989
	Multiple	244	309	381	459	545	638	737	843	957	1076	1203	1336	1476
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.2	1.9 / 3.8	2.4 / 4.5	2.8 / 5.2	3.2 / 6	3.6 / 6.8	4.1 / 7.7	4.6 / 8.7	5.1 / 9.6	5.7 / 10.7	6.3 / 11.8
32	Simple	168	247	346	468	615	749	866	990	1122	1262	1410	1566	1729
	Multiple	210	266	328	397	471	552	638	731	829	933	1043	1159	1281
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.5	2.1 / 4.2	2.6 / 4.8	3 / 5.6	3.4 / 6.4	3.8 / 7.2	4.3 / 8.1	4.8 / 9	5.3 / 10	5.9 / 11
34	Simple	136	201	283	385	507	651	757	866	982	1105	1235	1371	1515
	Multiple	182	231	285	345	410	481	556	637	724	815	912	1013	1120
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 3.9	2.4 / 4.5	2.8 / 5.2	3.2 / 5.9	3.6 / 6.7	4 / 7.5	4.5 / 8.4	5 / 9.3	5.5 / 10.3
36	Simple	111	165	234	319	421	542	666	763	865	974	1088	1209	1336
	Multiple	153	202	249	302	359	422	488	560	636	717	802	892	986
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.7 / 3.7	2.1 / 4.3	2.6 / 4.9	3 / 5.6	3.4 / 6.3	3.8 / 7.1	4.2 / 7.9	4.7 / 8.7	5.1 / 9.6
38	Simple	90	136	194	266	352	455	575	676	767	863	965	1073	1186
	Multiple	127	177	219	266	317	372	431	495	562	634	710	790	873
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.9 / 4	2.4 / 4.6	2.8 / 5.3	3.2 / 5.9	3.6 / 6.7	4 / 7.4	4.4 / 8.2	4.8 / 9.1
40	Simple	74	112	162	223	296	384	487	602	683	770	861	957	1058
	Multiple	105	156	194	235	281	330	383	439	500	564	631	703	778
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.7 / 3.8	2.2 / 4.4	2.7 / 5	3 / 5.6	3.4 / 6.3	3.7 / 7	4.2 / 7.8	4.6 / 8.6
42	Simple	60	93	135	188	251	326	414	517	612	689	772	858	949
	Multiple	87	132	172	209	249	294	341	392	446	504	564	628	696
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.6 / 3.6	2 / 4.1	2.4 / 4.7	2.8 / 5.3	3.2 / 6	3.6 / 6.7	3.9 / 7.4	4.3 / 8.1
44	Simple	49	77	114	159	213	278	355	443	545	620	694	773	855
	Multiple	72	111	153	186	223	262	305	351	400	452	506	564	625
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.8 / 3.9	2.2 / 4.5	2.7 / 5.1	3 / 5.7	3.4 / 6.3	3.7 / 7	4.1 / 7.7

- Total Load values are limited by shear, moment or deflection equal to L/180. Total Load values are the capacity of the beam in addition to its own weight.
- Live Load values are limited by deflection equal to L/240. Check with project's design professional of record for other possible deflection limits.
- Live load equal to 0.75 of total load. For greater live/total applications (e.g. 50 psf snow or higher), analyze specific application with BC Calc software.
- Table assumes dry-use conditions, moisture content of beam not to exceed 16%.
- Table values assume that lateral support is provided at each support and continuously along the compression edge of the beam.
- Table values for Minimum Required Bearing Lengths are based on the allowable compression design value perpendicular to grain for the beam and the Total Load value shown. Other design considerations, such as a weaker support material, may warrant longer bearing lengths. Table values assume that support is provided across the full width of the beam.
- This table was designed to apply to a broad range of applications. It may be possible to exceed the limitations of this table by analyzing a specific application with the BC Calc software.
- For longer span applications, camber shall be considered by project's design professional of record.



Allowable Snow Roof Load [plf]

KEY TO TABLE:
Top Figure = Allowable Total Load [plf] for Simple Spans Only
Middle Figure = Total Load [plf] for Multiple Spans
Bottom Figure = Minimum Required Bearing Lengths at End / Intermediate Supports [in]

22F-V14/POC Grade - 115% Load Duration - Dry-Use Conditions

Span [ft]	Span Type	10.75" BOISE Glulam												
		15"	16.5"	18"	19.5"	21"	22.5"	24"	25.5"	27"	28.5"	30"	31.5"	33"
10	Simple	6611	7927	9356	10897	12548	14309	14385	14381	14377	14374	14370	14366	14362
	Multiple	4948	5935	7005	7173	7169	7165	7161	7157	7153	7150	7146	7142	7138
	Min. Bearing	5.5 / 10.4	6.6 / 12.4	7.8 / 14.6	9.1 / 15	10.5 / 15	11.9 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
12	Simple	4495	5392	6365	7414	8539	9739	11013	11973	11969	11966	11962	11958	11954
	Multiple	3362	4033	4762	5548	5965	5961	5957	5953	5949	5946	5942	5938	5934
	Min. Bearing	4.5 / 8.5	5.4 / 10.2	6.4 / 12	7.4 / 14	8.6 / 15	9.8 / 15	11 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
14	Simple	3241	3889	4592	5350	6162	7029	7950	8924	9952	10246	10242	10238	10234
	Multiple	2421	2906	3432	4000	4608	5101	5097	5093	5089	5086	5082	5078	5074
	Min. Bearing	3.8 / 7.2	4.6 / 8.6	5.4 / 10.1	6.3 / 11.8	7.2 / 13.6	8.2 / 15	9.3 / 15	10.5 / 15	11.7 / 15	12 / 15	12 / 15	12 / 15	12 / 15
16	Simple	2439	2927	3457	4029	4642	5296	5991	6726	7501	8316	8952	8948	8944
	Multiple	1820	2185	2581	3009	3468	3957	4452	4448	4444	4441	4437	4433	4429
	Min. Bearing	3.3 / 6.2	3.9 / 7.4	4.7 / 8.7	5.4 / 10.2	6.2 / 11.7	7.1 / 13.3	8 / 15	9 / 15	10.1 / 15	11.2 / 15	12 / 15	12 / 15	12 / 15
18	Simple	1896	2276	2690	3135	3613	4123	4664	5237	5842	6478	7145	7842	7940
	Multiple	1412	1697	2005	2339	2696	3077	3483	3911	3943	3939	3935	3931	3927
	Min. Bearing	2.9 / 5.4	3.5 / 6.5	4.1 / 7.7	4.8 / 8.9	5.5 / 10.3	6.3 / 11.7	7.1 / 13.3	7.9 / 14.9	8.8 / 15	9.8 / 15	10.8 / 15	11.8 / 15	12 / 15
20	Simple	1512	1816	2146	2503	2885	3293	3726	4185	4668	5177	5711	6269	6852
	Multiple	1124	1351	1598	1864	2150	2455	2779	3122	3484	3538	3534	3530	3526
	Min. Bearing	2.6 / 4.8	3.1 / 5.8	3.6 / 6.8	4.2 / 8	4.9 / 9.2	5.6 / 10.4	6.3 / 11.8	7.1 / 13.2	7.9 / 14.8	8.7 / 15	9.6 / 15	10.6 / 15	11.5 / 15
22	Simple	1231	1479	1748	2039	2352	2685	3039	3413	3809	4225	4661	5117	5594
	Multiple	913	1098	1300	1517	1750	1999	2263	2543	2839	3150	3205	3201	3197
	Min. Bearing	2.3 / 4.4	2.8 / 5.2	3.3 / 6.2	3.8 / 7.2	4.4 / 8.2	5 / 9.4	5.7 / 10.6	6.4 / 11.9	7.1 / 13.3	7.9 / 14.7	8.7 / 15	9.5 / 15	10.4 / 15
24	Simple	1019	1225	1449	1690	1950	2227	2521	2832	3161	3507	3869	4249	4645
	Multiple	754	908	1075	1255	1449	1655	1875	2108	2353	2611	2882	2928	2924
	Min. Bearing	2.1 / 4	2.5 / 4.7	3 / 5.6	3.5 / 6.5	4 / 7.5	4.6 / 8.5	5.1 / 9.7	5.8 / 10.8	6.4 / 12.1	7.1 / 13.4	7.9 / 14.8	8.6 / 15	9.4 / 15
26	Simple	827	1028	1217	1421	1640	1873	2121	2384	2661	2953	3259	3579	3913
	Multiple	631	761	901	1053	1216	1390	1575	1771	1978	2196	2424	2663	2692
	Min. Bearing	1.9 / 3.6	2.3 / 4.3	2.7 / 5.1	3.2 / 6	3.7 / 6.9	4.2 / 7.8	4.7 / 8.8	5.3 / 9.9	5.9 / 11.1	6.5 / 12.3	7.2 / 13.5	7.9 / 14.8	8.6 / 15
28	Simple	655	874	1035	1209	1395	1595	1806	2031	2267	2516	2778	3051	3337
	Multiple	535	645	764	894	1033	1181	1339	1506	1683	1869	2064	2268	2481
	Min. Bearing	1.6 / 3.3	2.1 / 4	2.5 / 4.7	2.9 / 5.5	3.4 / 6.3	3.8 / 7.2	4.3 / 8.1	4.9 / 9.1	5.4 / 10.2	6 / 11.3	6.6 / 12.5	7.3 / 13.7	8 / 14.9
30	Simple	525	708	889	1039	1200	1372	1554	1748	1952	2167	2392	2628	2875
	Multiple	457	552	655	766	886	1014	1150	1294	1446	1607	1775	1951	2135
	Min. Bearing	1.5 / 3.1	1.9 / 3.7	2.3 / 4.4	2.7 / 5.1	3.1 / 5.9	3.6 / 6.7	4 / 7.6	4.5 / 8.5	5 / 9.4	5.6 / 10.5	6.2 / 11.5	6.8 / 12.7	7.4 / 13.8
32	Simple	426	575	756	901	1041	1190	1349	1518	1696	1883	2079	2285	2500
	Multiple	394	477	566	663	767	878	996	1122	1254	1393	1540	1693	1853
	Min. Bearing	1.5 / 3	1.6 / 3.5	2.1 / 4.1	2.5 / 4.7	2.9 / 5.5	3.3 / 6.2	3.8 / 7	4.2 / 7.9	4.7 / 8.8	5.2 / 9.8	5.7 / 10.8	6.3 / 11.8	6.9 / 12.9
34	Simple	348	473	623	787	910	1041	1181	1328	1484	1649	1821	2002	2191
	Multiple	343	414	493	578	669	766	870	980	1096	1218	1346	1481	1621
	Min. Bearing	1.5 / 3	1.5 / 3.2	1.9 / 3.8	2.4 / 4.4	2.7 / 5.1	3.1 / 5.8	3.5 / 6.6	3.9 / 7.4	4.4 / 8.2	4.9 / 9.1	5.4 / 10.1	5.9 / 11	6.4 / 12.1
36	Simple	287	391	517	666	801	917	1040	1171	1309	1454	1606	1766	1933
	Multiple	299	363	432	506	587	673	764	861	964	1072	1185	1304	1428
	Min. Bearing	1.5 / 3	1.5 / 3	1.7 / 3.6	2.1 / 4.2	2.6 / 4.8	2.9 / 5.5	3.3 / 6.2	3.7 / 6.9	4.1 / 7.7	4.6 / 8.6	5 / 9.4	5.5 / 10.4	6 / 11.3
38	Simple	238	326	433	559	707	812	922	1038	1161	1290	1426	1568	1716
	Multiple	263	319	380	447	518	594	675	762	853	949	1050	1155	1266
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.4	1.9 / 3.9	2.4 / 4.5	2.7 / 5.2	3.1 / 5.8	3.5 / 6.5	3.9 / 7.3	4.3 / 8.1	4.7 / 8.9	5.2 / 9.8	5.7 / 10.7
40	Simple	199	274	364	472	598	723	821	925	1035	1151	1272	1399	1532
	Multiple	232	282	337	396	459	528	600	677	759	844	934	1029	1128
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.2	1.7 / 3.7	2.2 / 4.3	2.6 / 4.9	2.9 / 5.5	3.3 / 6.2	3.7 / 6.9	4.1 / 7.6	4.5 / 8.4	4.9 / 9.2	5.4 / 10.1
42	Simple	166	230	308	401	509	635	735	828	927	1031	1140	1255	1375
	Multiple	206	250	299	352	409	470	536	605	678	755	836	921	1009
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.5	2 / 4	2.4 / 4.6	2.8 / 5.2	3.1 / 5.9	3.5 / 6.5	3.9 / 7.2	4.3 / 8	4.7 / 8.7	5.1 / 9.6
44	Simple	140	195	262	342	436	545	661	745	834	928	1027	1131	1239
	Multiple	183	223	267	315	366	421	480	542	608	678	751	827	907
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.8 / 3.8	2.2 / 4.4	2.6 / 5	3 / 5.6	3.3 / 6.2	3.7 / 6.9	4 / 7.6	4.4 / 8.3	4.8 / 9.1

- Total Load values are limited by shear, moment or deflection equal to L/180. Total Load values are the capacity of the beam in addition to its own weight.
- Live Load values are limited by deflection equal to L/240. Check with project's design professional of record for other possible deflection limits.
- Live load equal to 0.75 of total load. For greater live/total applications (e.g. 50 psf snow or higher), analyze specific application with BC Calc software.
- Table assumes dry-use conditions, moisture content of beam not to exceed 16%.
- Table values assume that lateral support is provided at each support and continuously along the compression edge of the beam.
- Table values for Minimum Required Bearing Lengths are based on the allowable compression design value perpendicular to grain for the beam and the Total Load value shown. Other design considerations, such as a weaker support material, may warrant longer bearing lengths. Table values assume that support is provided across the full width of the beam.
- This table was designed to apply to a broad range of applications. It may be possible to exceed the limitations of this table by analyzing a specific application with the BC Calc software.
- For longer span applications, camber shall be considered by project's design professional of record.



Allowable Non-Snow Roof Load [plf]

KEY TO TABLE:
Top Figure = Allowable Total Load [plf] for Simple Spans Only
Middle Figure = Total Load [plf] for Multiple Spans
Bottom Figure = Minimum Required Bearing Lengths at End / Intermediate Supports [in]

22F-V14/POC Grade - 125% Load Duration - Dry-Use Conditions

Span [ft]	Span Type	8.75" BOISE Glulam												
		12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"	25.5"	27"	28.5"	30"
10	Simple	3824	4844	5974	7163	8454	9846	11337	11712	11709	11706	11703	11699	11696
	Multiple	2862	3626	4473	5364	5842	5839	5835	5832	5829	5826	5823	5819	5816
	Min. Bearing	3.9 / 7.4	5 / 9.3	6.1 / 11.5	7.3 / 13.8	8.7 / 15	10.1 / 15	11.6 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
12	Simple	2648	3324	4064	4873	5753	6701	7717	8801	9749	9746	9743	9739	9736
	Multiple	1980	2486	3040	3646	4305	4859	4855	4852	4849	4846	4843	4839	4836
	Min. Bearing	3.3 / 6.1	4.1 / 7.7	5 / 9.4	6 / 11.3	7.1 / 13.3	8.3 / 15	9.5 / 15	10.8 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
14	Simple	1913	2397	2931	3516	4151	4836	5570	6354	7186	8066	8343	8339	8336
	Multiple	1429	1790	2190	2628	3104	3617	4155	4152	4149	4146	4143	4139	4136
	Min. Bearing	2.8 / 5.2	3.5 / 6.5	4.2 / 7.9	5.1 / 9.5	6 / 11.2	7 / 13.1	8 / 15	9.1 / 15	10.3 / 15	11.6 / 15	12 / 15	12 / 15	12 / 15
16	Simple	1439	1804	2206	2648	3127	3643	4197	4788	5416	6080	6781	7289	7286
	Multiple	1073	1345	1647	1977	2335	2722	3137	3579	3624	3621	3618	3614	3611
	Min. Bearing	2.4 / 4.5	3 / 5.6	3.7 / 6.9	4.4 / 8.2	5.2 / 9.7	6 / 11.3	6.9 / 13	7.9 / 14.8	8.9 / 15	10 / 15	11.2 / 15	12 / 15	12 / 15
18	Simple	1063	1402	1716	2060	2433	2836	3268	3729	4218	4736	5282	5857	6459
	Multiple	832	1044	1279	1536	1815	2117	2440	2784	3151	3212	3209	3206	3203
	Min. Bearing	2 / 3.9	2.6 / 4.9	3.2 / 6	3.8 / 7.2	4.5 / 8.5	5.3 / 9.9	6.1 / 11.4	6.9 / 13	7.8 / 14.7	8.8 / 15	9.8 / 15	10.9 / 15	12 / 15
20	Simple	768	1101	1369	1644	1943	2265	2610	2979	3371	3785	4222	4682	5165
	Multiple	662	831	1019	1224	1447	1688	1947	2222	2515	2825	2883	2879	2876
	Min. Bearing	1.6 / 3.5	2.3 / 4.4	2.9 / 5.4	3.4 / 6.4	4 / 7.6	4.7 / 8.8	5.4 / 10.2	6.2 / 11.6	7 / 13.1	7.8 / 14.7	8.7 / 15	9.7 / 15	10.7 / 15
22	Simple	571	820	1115	1339	1583	1846	2129	2430	2750	3089	3446	3822	4216
	Multiple	537	675	828	996	1178	1374	1585	1810	2050	2303	2570	2612	2609
	Min. Bearing	1.5 / 3.2	1.9 / 4	2.6 / 4.8	3.1 / 5.8	3.6 / 6.8	4.2 / 7.9	4.9 / 9.1	5.6 / 10.4	6.3 / 11.8	7.1 / 13.2	7.9 / 14.7	8.7 / 15	9.6 / 15
24	Simple	434	625	865	1110	1312	1531	1766	2016	2282	2564	2861	3174	3501
	Multiple	443	558	685	824	975	1138	1313	1500	1699	1909	2131	2365	2386
	Min. Bearing	1.5 / 3	1.6 / 3.6	2.2 / 4.4	2.8 / 5.3	3.3 / 6.2	3.9 / 7.2	4.4 / 8.3	5.1 / 9.5	5.7 / 10.7	6.4 / 12	7.1 / 13.4	7.9 / 14.9	8.7 / 15
26	Simple	336	485	673	904	1103	1288	1486	1697	1921	2159	2409	2673	2950
	Multiple	371	467	574	691	818	956	1103	1261	1428	1606	1793	1990	2196
	Min. Bearing	1.5 / 3	1.5 / 3.3	1.9 / 4	2.5 / 4.8	3 / 5.7	3.5 / 6.6	4.1 / 7.6	4.6 / 8.7	5.2 / 9.8	5.9 / 11	6.5 / 12.3	7.3 / 13.6	8 / 15
28	Simple	264	383	533	716	937	1096	1265	1445	1637	1840	2054	2279	2516
	Multiple	314	396	486	586	695	812	938	1072	1215	1366	1526	1694	1871
	Min. Bearing	1.5 / 3	1.5 / 3	1.6 / 3.7	2.1 / 4.4	2.8 / 5.2	3.3 / 6.1	3.7 / 7	4.3 / 8	4.8 / 9	5.4 / 10.1	6 / 11.3	6.7 / 12.5	7.4 / 13.8
30	Simple	210	306	427	576	755	943	1088	1244	1409	1584	1769	1964	2168
	Multiple	268	338	417	502	596	697	805	921	1044	1175	1313	1458	1610
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.4	1.9 / 4.1	2.4 / 4.9	3 / 5.6	3.5 / 6.5	4 / 7.4	4.5 / 8.4	5 / 9.4	5.6 / 10.5	6.2 / 11.6	6.8 / 12.8
32	Simple	168	247	346	468	615	790	945	1080	1224	1377	1538	1707	1885
	Multiple	229	292	360	434	515	603	697	798	905	1019	1139	1265	1398
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.2	1.6 / 3.8	2.1 / 4.5	2.7 / 5.3	3.2 / 6.1	3.7 / 6.9	4.2 / 7.8	4.7 / 8.8	5.2 / 9.8	5.8 / 10.8	6.4 / 11.9
34	Simple	136	201	283	385	507	651	821	945	1072	1206	1347	1496	1652
	Multiple	187	254	313	378	449	526	609	697	791	891	996	1107	1223
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.9 / 4.2	2.4 / 4.9	3 / 5.7	3.4 / 6.5	3.9 / 7.3	4.4 / 8.2	4.9 / 9.1	5.4 / 10.1	6 / 11.2
36	Simple	111	165	234	319	421	542	684	833	945	1063	1188	1320	1458
	Multiple	153	222	274	331	394	462	535	613	696	784	877	975	1077
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.7 / 4	2.1 / 4.6	2.7 / 5.3	3.2 / 6.1	3.7 / 6.9	4.1 / 7.7	4.6 / 8.6	5.1 / 9.5	5.6 / 10.5
38	Simple	90	136	194	266	352	455	575	715	838	943	1054	1172	1294
	Multiple	127	188	241	292	348	408	473	542	616	694	776	864	955
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.5 / 3.7	1.9 / 4.4	2.4 / 5	3 / 5.7	3.4 / 6.5	3.9 / 7.3	4.3 / 8.1	4.8 / 9	5.3 / 9.9
40	Simple	74	112	162	223	296	384	487	606	742	841	941	1046	1156
	Multiple	105	157	213	259	308	362	420	482	548	617	691	769	851
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.7 / 4.1	2.2 / 4.7	2.7 / 5.4	3.2 / 6.1	3.7 / 6.9	4.1 / 7.6	4.5 / 8.5	5 / 9.3
42	Simple	60	93	135	188	251	326	414	517	634	754	844	938	1037
	Multiple	87	132	188	230	275	323	375	430	489	552	618	688	762
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.6 / 3.9	2 / 4.5	2.4 / 5.1	2.9 / 5.8	3.5 / 6.5	3.9 / 7.2	4.3 / 8	4.7 / 8.8
44	Simple	49	77	114	159	213	278	355	443	545	661	760	845	935
	Multiple	72	111	159	205	245	289	336	386	439	496	556	619	685
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.5 / 3.7	1.8 / 4.3	2.2 / 4.9	2.7 / 5.5	3.2 / 6.2	3.7 / 6.9	4.1 / 7.6	4.5 / 8.4

- Total Load values are limited by shear, moment or deflection equal to L/180. Total Load values are the capacity of the beam in addition to its own weight.
- Live Load values are limited by deflection equal to L/240. Check with project's design professional of record for other possible deflection limits.
- Live load equal to 0.75 of total load.
- Table assumes dry-use conditions, moisture content of beam not to exceed 16%.
- Table values assume that lateral support is provided at each support and continuously along the compression edge of the beam.
- Table values for Minimum Required Bearing Lengths are based on the allowable compression design value perpendicular to grain for the beam and the Total Load value shown. Other design considerations, such as a weaker support material, may warrant longer bearing lengths. Table values assume that support is provided across the full width of the beam.
- This table was designed to apply to a broad range of applications. It may be possible to exceed the limitations of this table by analyzing a specific application with the BC Calc software.
- For longer span applications, camber shall be considered by project's design professional of record.



KEY TO TABLE:

Top Figure = Allowable Total Load [plf] for Simple Spans Only

Middle Figure = Total Load [plf] for Multiple Spans

Bottom Figure = Minimum Required Bearing Lengths at End / Intermediate Supports [in]

Allowable Non-Snow Roof Load [plf]

22F-V14/POC Grade - 125% Load Duration - Dry-Use Conditions

Span [ft]	Span Type	10.75" BOISE Glulam												
		15"	16.5"	18"	19.5"	21"	22.5"	24"	25.5"	27"	28.5"	30"	31.5"	33"
10	Simple	7189	8620	10174	11849	13644	14389	14385	14381	14377	14374	14370	14366	14362
	Multiple	5382	6454	7177	7173	7169	7165	7161	7157	7153	7150	7146	7142	7138
	Min. Bearing	6 / 11.3	7.2 / 13.5	8.5 / 15	9.9 / 15	11.4 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
12	Simple	4890	5864	6923	8063	9286	10591	11976	11973	11969	11966	11962	11958	11954
	Multiple	3658	4388	5180	5969	5965	5961	5957	5953	5949	5946	5942	5938	5934
	Min. Bearing	4.9 / 9.2	5.9 / 11	6.9 / 13	8.1 / 15	9.3 / 15	10.6 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
14	Simple	3527	4231	4995	5819	6703	7646	8647	9706	10249	10246	10242	10238	10234
	Multiple	2635	3162	3735	4352	5014	5101	5097	5093	5089	5086	5082	5078	5074
	Min. Bearing	4.1 / 7.8	5 / 9.3	5.9 / 11	6.8 / 12.8	7.9 / 14.7	9 / 15	10.1 / 15	11.4 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
16	Simple	2655	3186	3762	4384	5051	5762	6517	7317	8160	8956	8952	8948	8944
	Multiple	1981	2378	2810	3275	3774	4307	4452	4448	4444	4441	4437	4433	4429
	Min. Bearing	3.6 / 6.7	4.3 / 8	5.1 / 9.5	5.9 / 11.1	6.8 / 12.7	7.7 / 14.5	8.7 / 15	9.8 / 15	10.9 / 15	12 / 15	12 / 15	12 / 15	12 / 15
18	Simple	2064	2478	2927	3412	3932	4486	5075	5699	6356	7048	7773	7944	7940
	Multiple	1539	1848	2184	2546	2935	3350	3791	3947	3943	3939	3935	3931	3927
	Min. Bearing	3.1 / 5.9	3.8 / 7.1	4.4 / 8.3	5.2 / 9.7	6 / 11.2	6.8 / 12.7	7.7 / 14.4	8.6 / 15	9.6 / 15	10.6 / 15	11.7 / 15	12 / 15	12 / 15
20	Simple	1647	1978	2337	2725	3140	3584	4055	4554	5080	5634	6214	6822	7138
	Multiple	1225	1472	1741	2031	2342	2673	3026	3399	3541	3538	3534	3530	3526
	Min. Bearing	2.8 / 5.3	3.4 / 6.3	4 / 7.4	4.6 / 8.6	5.3 / 10	6.1 / 11.3	6.8 / 12.8	7.7 / 14.4	8.6 / 15	9.5 / 15	10.5 / 15	11.5 / 15	12 / 15
22	Simple	1341	1611	1905	2221	2561	2923	3308	3716	4146	4598	5073	5569	6088
	Multiple	996	1198	1417	1653	1907	2178	2466	2770	3092	3209	3205	3201	3197
	Min. Bearing	2.5 / 4.7	3 / 5.7	3.6 / 6.7	4.2 / 7.8	4.8 / 9	5.4 / 10.2	6.2 / 11.5	6.9 / 13	7.7 / 14.4	8.5 / 15	9.4 / 15	10.3 / 15	11.3 / 15
24	Simple	1062	1335	1579	1842	2124	2425	2745	3084	3442	3818	4213	4625	5057
	Multiple	823	990	1172	1369	1579	1804	2043	2297	2564	2845	2932	2928	2924
	Min. Bearing	2.2 / 4.3	2.7 / 5.2	3.2 / 6.1	3.8 / 7.1	4.3 / 8.1	5 / 9.3	5.6 / 10.5	6.3 / 11.8	7 / 13.1	7.8 / 14.5	8.6 / 15	9.4 / 15	10.3 / 15
26	Simple	827	1110	1327	1549	1787	2041	2311	2597	2898	3216	3549	3897	4261
	Multiple	690	830	984	1149	1326	1516	1718	1931	2156	2393	2642	2696	2692
	Min. Bearing	1.9 / 3.9	2.5 / 4.7	3 / 5.6	3.5 / 6.5	4 / 7.5	4.5 / 8.5	5.1 / 9.6	5.8 / 10.8	6.4 / 12	7.1 / 13.3	7.8 / 14.7	8.6 / 15	9.4 / 15
28	Simple	655	880	1129	1318	1521	1738	1969	2213	2471	2742	3026	3324	3634
	Multiple	585	705	835	976	1127	1289	1461	1643	1835	2038	2250	2472	2494
	Min. Bearing	1.6 / 3.6	2.1 / 4.3	2.7 / 5.1	3.2 / 6	3.7 / 6.9	4.2 / 7.8	4.7 / 8.9	5.3 / 9.9	5.9 / 11.1	6.5 / 12.3	7.2 / 13.5	7.9 / 14.9	8.7 / 15
30	Simple	525	708	928	1134	1309	1496	1695	1906	2128	2362	2607	2864	3133
	Multiple	501	604	716	838	968	1107	1255	1412	1578	1753	1936	2128	2322
	Min. Bearing	1.5 / 3.4	1.9 / 4	2.4 / 4.8	3 / 5.5	3.4 / 6.4	3.9 / 7.3	4.4 / 8.2	4.9 / 9.2	5.5 / 10.3	6.1 / 11.4	6.7 / 12.5	7.3 / 13.8	8 / 15
32	Simple	426	575	756	970	1136	1299	1472	1656	1849	2053	2267	2491	2725
	Multiple	432	522	619	725	838	959	1088	1225	1369	1521	1681	1847	2022
	Min. Bearing	1.5 / 3.1	1.6 / 3.8	2.1 / 4.4	2.7 / 5.2	3.2 / 5.9	3.6 / 6.8	4.1 / 7.6	4.6 / 8.6	5.1 / 9.6	5.7 / 10.6	6.2 / 11.7	6.8 / 12.8	7.5 / 14
34	Simple	348	473	623	800	994	1137	1289	1450	1620	1799	1986	2183	2389
	Multiple	376	454	540	632	732	838	951	1071	1197	1330	1470	1617	1770
	Min. Bearing	1.5 / 3	1.5 / 3.5	1.9 / 4.1	2.4 / 4.8	3 / 5.6	3.4 / 6.3	3.8 / 7.2	4.3 / 8	4.8 / 8.9	5.3 / 9.9	5.8 / 10.9	6.4 / 12	7 / 13.1
36	Simple	287	391	517	666	841	1001	1136	1278	1429	1587	1753	1927	2109
	Multiple	329	398	473	555	643	736	836	942	1054	1171	1295	1425	1560
	Min. Bearing	1.5 / 3	1.5 / 3.3	1.7 / 3.9	2.1 / 4.5	2.7 / 5.2	3.2 / 5.9	3.6 / 6.7	4 / 7.5	4.5 / 8.4	5 / 9.3	5.5 / 10.3	6 / 11.3	6.6 / 12.3
38	Simple	238	326	433	559	707	878	1007	1134	1268	1408	1556	1711	1873
	Multiple	289	351	417	490	568	651	740	834	933	1038	1148	1263	1383
	Min. Bearing	1.5 / 3	1.5 / 3.1	1.5 / 3.7	1.9 / 4.3	2.4 / 4.9	3 / 5.6	3.4 / 6.3	3.8 / 7.1	4.2 / 7.9	4.7 / 8.8	5.2 / 9.7	5.7 / 10.6	6.2 / 11.6
40	Simple	199	274	364	472	598	744	898	1011	1131	1257	1389	1528	1673
	Multiple	256	310	370	435	504	579	658	742	831	924	1022	1125	1233
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.5	1.7 / 4	2.2 / 4.6	2.7 / 5.3	3.2 / 6	3.6 / 6.7	4 / 7.5	4.4 / 8.3	4.9 / 9.1	5.4 / 10	5.8 / 11
42	Simple	166	230	308	401	509	635	779	906	1014	1127	1246	1371	1502
	Multiple	227	276	329	387	450	516	588	663	743	827	915	1008	1105
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.3	1.6 / 3.8	2 / 4.4	2.4 / 5	2.9 / 5.7	3.4 / 6.4	3.8 / 7.1	4.2 / 7.9	4.6 / 8.7	5.1 / 9.5	5.5 / 10.4
44	Simple	140	195	262	342	436	545	670	812	913	1016	1123	1236	1354
	Multiple	196	246	294	347	403	463	527	595	667	743	823	906	994
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.1	1.5 / 3.6	1.8 / 4.2	2.2 / 4.8	2.7 / 5.4	3.2 / 6	3.6 / 6.7	4 / 7.5	4.4 / 8.2	4.8 / 9	5.3 / 9.9

- Total Load values are limited by shear, moment or deflection equal to L/180. Total Load values are the capacity of the beam in addition to its own weight.
- Live Load values are limited by deflection equal to L/240. Check with project's design professional of record for other possible deflection limits.
- Live load equal to 0.75 of total load.
- Table assumes dry-use conditions, moisture content of beam not to exceed 16%.
- Table values assume that lateral support is provided at each support and continuously along the compression edge of the beam.
- Table values for Minimum Required Bearing Lengths are based on the allowable compression design value perpendicular to grain for the beam and the Total Load value shown. Other design considerations, such as a weaker support material, may warrant longer bearing lengths. Table values assume that support is provided across the full width of the beam.
- This table was designed to apply to a broad range of applications. It may be possible to exceed the limitations of this table by analyzing a specific application with the BC Calc software.
- For longer span applications, camber shall be considered by project's design professional of record.



Allowable Floor Load [plf]

KEY TO TABLE:

Top Figure = Allowable Total Load [plf] for Simple Spans Only

Middle Figure = Total Load [plf] for Multiple Spans

Bottom Figure = Minimum Required Bearing Lengths at End / Intermediate Supports [in]

22F-V14/POC Grade - 100% Load Duration - Wet-Use Conditions

Span [ft]	Span Type	8.75" BOISE Glulam												
		12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"	25.5"	27"	28.5"	30"
10	Simple	2438	3090	3812	4572	5397	6196	6192	6189	6186	6183	6180	6176	6173
	Multiple	1822	2310	2851	3083	3080	3077	3074	3071	3067	3064	3061	3058	3055
	Min. Bearing	4.7 / 8.9	6 / 11.2	7.4 / 13.9	8.9 / 15	10.5 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
12	Simple	1686	2117	2589	3106	3668	4273	4923	5150	5146	5143	5140	5137	5134
	Multiple	1258	1580	1934	2321	2560	2557	2554	2551	2548	2545	2541	2538	2535
	Min. Bearing	4 / 7.4	5 / 9.3	6.1 / 11.3	7.3 / 13.6	8.6 / 15	10 / 15	11.5 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
14	Simple	1179	1524	1864	2238	2643	3080	3549	4049	4404	4401	4398	4394	4391
	Multiple	905	1135	1390	1669	1973	2186	2183	2180	2176	2173	2170	2167	2164
	Min. Bearing	3.2 / 6.3	4.2 / 7.8	5.1 / 9.6	6.1 / 11.5	7.2 / 13.5	8.4 / 15	9.7 / 15	11 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
16	Simple	781	1120	1401	1682	1987	2317	2670	3047	3448	3844	3841	3838	3834
	Multiple	678	851	1043	1253	1481	1727	1904	1901	1898	1895	1892	1888	1885
	Min. Bearing	2.5 / 5.4	3.5 / 6.8	4.4 / 8.3	5.3 / 9.9	6.2 / 11.7	7.3 / 13.6	8.4 / 15	9.5 / 15	10.8 / 15	12 / 15	12 / 15	12 / 15	12 / 15
18	Simple	541	778	1075	1306	1543	1800	2075	2369	2681	3012	3360	3404	3401
	Multiple	524	658	807	970	1148	1340	1545	1685	1681	1678	1675	1672	1669
	Min. Bearing	2 / 4.8	2.8 / 5.9	3.8 / 7.3	4.6 / 8.7	5.5 / 10.3	6.4 / 12	7.3 / 13.8	8.4 / 15	9.5 / 15	10.6 / 15	11.8 / 15	12 / 15	12 / 15
20	Simple	388	559	775	1039	1229	1435	1655	1889	2139	2403	2682	2975	3055
	Multiple	415	522	641	771	913	1066	1230	1405	1508	1505	1502	1499	1495
	Min. Bearing	1.6 / 4.2	2.3 / 5.3	3.1 / 6.5	4.1 / 7.8	4.9 / 9.1	5.7 / 10.6	6.5 / 12.3	7.5 / 14	8.4 / 15	9.5 / 15	10.5 / 15	11.7 / 15	12 / 15
22	Simple	285	413	574	772	1000	1167	1346	1538	1742	1957	2185	2424	2675
	Multiple	335	422	519	625	740	865	999	1141	1293	1363	1360	1357	1354
	Min. Bearing	1.5 / 3.8	1.9 / 4.8	2.6 / 5.8	3.4 / 7	4.4 / 8.2	5.1 / 9.6	5.9 / 11	6.7 / 12.6	7.6 / 14.2	8.5 / 15	9.5 / 15	10.5 / 15	11.6 / 15
24	Simple	214	312	435	586	768	965	1114	1273	1442	1621	1810	2009	2218
	Multiple	275	347	427	514	610	713	824	943	1069	1202	1242	1239	1236
	Min. Bearing	1.5 / 3.5	1.6 / 4.3	2.2 / 5.3	2.9 / 6.3	3.7 / 7.5	4.6 / 8.7	5.4 / 10	6.1 / 11.4	6.9 / 12.9	7.7 / 14.5	8.6 / 15	9.6 / 15	10.5 / 15
26	Simple	162	239	335	454	596	765	935	1069	1211	1362	1521	1689	1865
	Multiple	222	289	356	429	510	597	690	790	896	1008	1127	1139	1136
	Min. Bearing	1.5 / 3.1	1.5 / 4	1.8 / 4.8	2.4 / 5.8	3.2 / 6.9	4 / 8	4.9 / 9.2	5.6 / 10.5	6.3 / 11.8	7.1 / 13.3	7.9 / 14.8	8.8 / 15	9.6 / 15
28	Simple	125	186	262	356	470	604	762	908	1029	1158	1294	1437	1587
	Multiple	172	243	300	362	431	505	584	669	759	855	956	1053	1050
	Min. Bearing	1.5 / 3	1.5 / 3.7	1.6 / 4.5	2.1 / 5.4	2.7 / 6.3	3.5 / 7.4	4.3 / 8.5	5.1 / 9.7	5.8 / 10.9	6.5 / 12.2	7.3 / 13.6	8.1 / 15	8.9 / 15
30	Simple	97	146	207	283	375	484	611	759	884	994	1112	1235	1364
	Multiple	135	200	255	309	368	431	499	572	650	732	819	911	976
	Min. Bearing	1.5 / 3	1.5 / 3.3	1.5 / 4.1	1.8 / 5	2.4 / 5.9	3 / 6.8	3.8 / 7.8	4.7 / 8.9	5.4 / 10.1	6.1 / 11.3	6.7 / 12.7	7.5 / 14	8.2 / 15
32	Simple	75	115	165	227	302	391	496	617	756	862	963	1071	1183
	Multiple	107	160	219	265	316	371	430	494	561	633	708	788	872
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.9	1.6 / 4.6	2.1 / 5.5	2.7 / 6.4	3.3 / 7.3	4.1 / 8.3	5 / 9.4	5.6 / 10.6	6.3 / 11.8	7 / 13.1	7.7 / 14.4
34	Simple	59	91	132	183	245	319	406	506	622	752	841	935	1034
	Multiple	85	129	184	229	274	322	374	429	488	551	617	686	760
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.5	1.5 / 4.3	1.9 / 5.1	2.4 / 5.9	2.9 / 6.8	3.6 / 7.8	4.4 / 8.8	5.3 / 9.9	5.9 / 11	6.5 / 12.2	7.2 / 13.5
36	Simple	45	72	106	149	201	262	335	419	516	625	740	823	910
	Multiple	68	104	150	199	238	281	326	375	427	482	540	602	667
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.2	1.5 / 4.1	1.7 / 4.8	2.1 / 5.6	2.6 / 6.4	3.2 / 7.3	3.9 / 8.3	4.7 / 9.3	5.5 / 10.4	6.1 / 11.5	6.7 / 12.6
38	Simple	-	57	86	121	165	217	278	349	431	524	628	728	806
	Multiple	-	84	123	171	209	246	286	330	376	425	476	531	588
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3.8	1.5 / 4.5	1.9 / 5.3	2.4 / 6.1	2.9 / 6.9	3.5 / 7.8	4.2 / 8.8	5 / 9.8	5.8 / 10.8	6.4 / 11.9
40	Simple	-	45	69	99	136	180	232	292	362	441	531	631	717
	Multiple	-	68	101	141	184	217	253	291	332	376	422	470	522
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3.4	1.5 / 4.3	1.7 / 5	2.1 / 5.7	2.6 / 6.5	3.2 / 7.4	3.8 / 8.3	4.5 / 9.2	5.3 / 10.2	6 / 11.3
42	Simple	-	-	55	81	112	150	194	246	306	374	451	537	633
	Multiple	-	-	83	117	160	192	224	258	295	334	375	419	465
	Min. Bearing	-	-	1.5 / 3	1.5 / 3.1	1.5 / 4	1.5 / 4.7	1.9 / 5.4	2.4 / 6.2	2.9 / 7	3.5 / 7.8	4.1 / 8.7	4.8 / 9.7	5.6 / 10.7
44	Simple	-	-	44	66	93	125	163	208	259	318	384	459	542
	Multiple	-	-	68	98	134	170	199	230	263	298	335	374	415
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3.6	1.5 / 4.5	1.8 / 5.2	2.2 / 5.9	2.6 / 6.6	3.2 / 7.4	3.7 / 8.3	4.4 / 9.2	5.1 / 10.1

- Total Load values are limited by shear, moment or deflection equal to L/240. Total Load values are the capacity of the beam in addition to its own weight.
- Live Load values are limited by deflection equal to L/360. Check with project's design professional of record for other possible deflection limits.
- Live load is equal to 0.8 of total load (residential loading).
- Table assumes wet-use, aboveground conditions.
- Table values assume that lateral support is provided at each support and continuously along the compression edge of the beam.
- Table values for Minimum Required Bearing Lengths are based on the allowable compression design value perpendicular to grain for the beam and the Total Load value shown. Other design considerations, such as a weaker support material, may warrant longer bearing lengths. Table values assume that support is provided across the full width of the beam.
- This table was designed to apply to a broad range of applications. It may be possible to exceed the limitations of this table by analyzing a specific application with the BC Calc software.
- For longer span applications, camber shall be considered by project's design professional of record.



Allowable Floor Load [plf]

KEY TO TABLE:
Top Figure = Allowable Total Load [plf] for Simple Spans Only
Middle Figure = Total Load [plf] for Multiple Spans

Bottom Figure = Minimum Required Bearing Lengths at End / Intermediate Supports [in]

22F-V14/POC Grade - 100% Load Duration - Wet-Use Conditions

Span [ft]	Span Type	10.75" BOISE Glulam												
		15"	16.5"	18"	19.5"	21"	22.5"	24"	25.5"	27"	28.5"	30"	31.5"	33"
10	Simple	4587	5501	6494	7565	7608	7604	7600	7596	7592	7588	7584	7580	7576
	Multiple	3430	3788	3784	3780	3776	3773	3769	3765	3761	3757	3753	3749	3745
	Min. Bearing	7.2 / 13.6	8.7 / 15	10.2 / 15	11.9 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
12	Simple	3115	3738	4413	5142	5924	6327	6323	6319	6315	6311	6307	6303	6299
	Multiple	2327	2793	3146	3142	3138	3134	3130	3126	3122	3118	3114	3110	3107
	Min. Bearing	5.9 / 11.1	7.1 / 13.3	8.4 / 15	9.8 / 15	11.2 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
14	Simple	2243	2692	3180	3706	4270	4872	5411	5407	5403	5399	5395	5391	5387
	Multiple	1672	2008	2373	2686	2682	2678	2674	2670	2666	2662	2658	2654	2650
	Min. Bearing	5 / 9.4	6 / 11.2	7.1 / 13.3	8.2 / 15	9.5 / 15	10.8 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
16	Simple	1685	2023	2391	2787	3213	3666	4148	4659	4719	4715	4711	4707	4703
	Multiple	1254	1507	1781	2078	2340	2336	2332	2328	2324	2320	2316	2312	2308
	Min. Bearing	4.3 / 8.1	5.2 / 9.7	6.1 / 11.5	7.1 / 13.3	8.2 / 15	9.3 / 15	10.6 / 15	11.8 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
18	Simple	1307	1570	1857	2165	2497	2850	3226	3623	4043	4183	4179	4175	4171
	Multiple	971	1167	1381	1611	1859	2070	2066	2062	2058	2054	2050	2046	2042
	Min. Bearing	3.8 / 7.1	4.5 / 8.5	5.4 / 10.1	6.2 / 11.7	7.2 / 13.5	8.2 / 15	9.3 / 15	10.4 / 15	11.6 / 15	12 / 15	12 / 15	12 / 15	12 / 15
20	Simple	952	1250	1479	1725	1990	2273	2573	2891	3226	3579	3753	3749	3745
	Multiple	770	927	1097	1281	1479	1690	1853	1849	1845	1841	1837	1833	1829
	Min. Bearing	3.1 / 6.3	4.1 / 7.6	4.8 / 9	5.6 / 10.4	6.4 / 12	7.3 / 13.7	8.3 / 15	9.3 / 15	10.3 / 15	11.4 / 15	12 / 15	12 / 15	12 / 15
22	Simple	705	948	1202	1403	1619	1850	2095	2354	2628	2916	3218	3401	3397
	Multiple	623	751	890	1040	1201	1373	1555	1675	1671	1667	1663	1659	1655
	Min. Bearing	2.6 / 5.7	3.4 / 6.8	4.3 / 8.1	5 / 9.4	5.8 / 10.8	6.6 / 12.3	7.4 / 13.9	8.3 / 15	9.3 / 15	10.3 / 15	11.4 / 15	12 / 15	12 / 15
24	Simple	534	720	944	1160	1340	1531	1735	1950	2177	2417	2668	2931	3107
	Multiple	513	618	733	858	991	1134	1285	1446	1526	1522	1518	1514	1510
	Min. Bearing	2.2 / 5.2	2.9 / 6.2	3.7 / 7.3	4.6 / 8.5	5.2 / 9.8	6 / 11.2	6.8 / 12.7	7.6 / 14.2	8.4 / 15	9.4 / 15	10.3 / 15	11.3 / 15	12 / 15
26	Simple	412	557	732	940	1124	1285	1456	1638	1830	2031	2243	2464	2696
	Multiple	427	516	613	717	829	949	1077	1212	1355	1399	1395	1391	1387
	Min. Bearing	1.8 / 4.7	2.4 / 5.7	3.2 / 6.7	4 / 7.8	4.8 / 9	5.5 / 10.3	6.2 / 11.6	6.9 / 13	7.7 / 14.5	8.6 / 15	9.5 / 15	10.4 / 15	11.3 / 15
28	Simple	322	438	577	743	936	1091	1238	1392	1556	1728	1908	2097	2295
	Multiple	360	435	518	606	702	804	912	1028	1149	1277	1290	1286	1282
	Min. Bearing	1.6 / 4.4	2.1 / 5.2	2.7 / 6.2	3.5 / 7.2	4.3 / 8.3	5 / 9.5	5.7 / 10.7	6.4 / 12	7.1 / 13.4	7.9 / 14.8	8.7 / 15	9.6 / 15	10.4 / 15
30	Simple	254	348	460	594	751	932	1062	1196	1336	1485	1640	1803	1974
	Multiple	306	371	441	518	600	687	781	880	985	1095	1199	1195	1191
	Min. Bearing	1.5 / 4.1	1.8 / 4.9	2.4 / 5.7	3 / 6.7	3.8 / 7.7	4.7 / 8.8	5.3 / 9.9	5.9 / 11.1	6.6 / 12.4	7.3 / 13.7	8.1 / 15	8.9 / 15	9.7 / 15
32	Simple	203	279	371	481	609	758	920	1036	1158	1287	1423	1564	1713
	Multiple	262	318	379	446	517	593	674	760	851	947	1047	1115	1111
	Min. Bearing	1.5 / 3.8	1.6 / 4.5	2.1 / 5.3	2.7 / 6.2	3.3 / 7.2	4.1 / 8.2	4.9 / 9.2	5.5 / 10.4	6.2 / 11.5	6.8 / 12.8	7.5 / 14.1	8.3 / 15	9 / 15
34	Simple	163	225	302	392	499	622	764	904	1011	1124	1243	1368	1498
	Multiple	226	275	328	386	448	515	586	661	741	825	913	1005	1041
	Min. Bearing	1.5 / 3.5	1.5 / 4.2	1.9 / 5	2.4 / 5.8	2.9 / 6.7	3.6 / 7.6	4.4 / 8.6	5.2 / 9.7	5.8 / 10.8	6.4 / 12	7 / 13.2	7.7 / 14.5	8.4 / 15
36	Simple	131	183	247	322	411	515	633	768	889	989	1094	1204	1318
	Multiple	184	239	286	337	391	450	513	579	649	723	801	882	967
	Min. Bearing	1.5 / 3.2	1.5 / 4	1.7 / 4.7	2.1 / 5.5	2.6 / 6.3	3.2 / 7.2	3.9 / 8.1	4.7 / 9.1	5.4 / 10.1	6 / 11.2	6.6 / 12.4	7.2 / 13.6	7.9 / 14.8
38	Simple	105	149	203	267	342	429	529	643	772	875	968	1066	1168
	Multiple	151	209	250	295	344	395	451	510	572	637	706	779	854
	Min. Bearing	1.5 / 3	1.5 / 3.7	1.5 / 4.4	1.9 / 5.1	2.4 / 5.9	2.9 / 6.8	3.5 / 7.6	4.2 / 8.6	5 / 9.6	5.6 / 10.6	6.2 / 11.7	6.8 / 12.8	7.5 / 14
40	Simple	85	122	167	221	285	359	445	542	652	775	861	948	1040
	Multiple	124	174	220	260	303	349	398	451	506	565	626	691	758
	Min. Bearing	1.5 / 3	1.5 / 3.4	1.5 / 4.2	1.7 / 4.9	2.1 / 5.6	2.6 / 6.4	3.2 / 7.2	3.8 / 8.1	4.5 / 9	5.3 / 10	5.9 / 11	6.5 / 12.1	7.1 / 13.2
42	Simple	68	99	138	184	239	302	376	459	554	660	770	848	930
	Multiple	102	144	194	230	268	309	353	400	450	502	558	615	676
	Min. Bearing	1.5 / 3	1.5 / 3.1	1.5 / 4	1.5 / 4.6	1.9 / 5.3	2.4 / 6.1	2.9 / 6.8	3.5 / 7.7	4.1 / 8.6	4.8 / 9.5	5.6 / 10.5	6.1 / 11.5	6.7 / 12.5
44	Simple	54	81	114	154	201	255	319	391	472	564	666	761	835
	Multiple	83	120	165	203	238	275	315	357	402	449	498	550	605
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.6	1.5 / 4.4	1.8 / 5	2.2 / 5.8	2.6 / 6.5	3.2 / 7.3	3.7 / 8.1	4.4 / 9	5.1 / 9.9	5.8 / 10.9	6.4 / 11.9

- Total Load values are limited by shear, moment or deflection equal to L/240. Total Load values are the capacity of the beam in addition to its own weight.
- Live Load values are limited by deflection equal to L/360. Check with project's design professional of record for other possible deflection limits.
- Live load is equal to 0.8 of total load (residential loading).
- Table assumes wet-use, above ground conditions.
- Table values assume that lateral support is provided at each support and continuously along the compression edge of the beam.
- Table values for Minimum Required Bearing Lengths are based on the allowable compression design value perpendicular to grain for the beam and the Total Load value shown. Other design considerations, such as a weaker support material, may warrant longer bearing lengths. Table values assume that support is provided across the full width of the beam.
- This table was designed to apply to a broad range of applications. It may be possible to exceed the limitations of this table by analyzing a specific application with the BC Calc software.
- For longer span applications, camber shall be considered by project's design professional of record.



KEY TO TABLE:

Top Figure = Allowable Total Load [plf] for Simple Spans Only

Middle Figure = Total Load [plf] for Multiple Spans

Bottom Figure = Minimum Required Bearing Lengths at End / Intermediate Supports [in]

Allowable Snow Roof Load [plf]

22F-V14/POC Grade - 115% Load Duration - Wet-Use Conditions

Span [ft]	Span Type	8.75" BOISE Glulam												
		12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"	25.5"	27"	28.5"	30"
10	Simple	2808	3558	4388	5263	6199	6196	6192	6189	6186	6183	6180	6176	6173
	Multiple	2100	2661	3087	3083	3080	3077	3074	3071	3067	3064	3061	3058	3055
	Min. Bearing	5.5 / 10.2	6.9 / 12.9	8.5 / 15	10.2 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
12	Simple	1942	2439	2982	3578	4224	4921	5153	5150	5146	5143	5140	5137	5134
	Multiple	1450	1822	2229	2564	2560	2557	2554	2551	2548	2545	2541	2538	2535
	Min. Bearing	4.5 / 8.5	5.7 / 10.7	7 / 13	8.3 / 15	9.8 / 15	11.5 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
14	Simple	1402	1756	2149	2578	3045	3548	4088	4407	4404	4401	4398	4394	4391
	Multiple	1045	1310	1604	1925	2189	2186	2183	2180	2176	2173	2170	2167	2164
	Min. Bearing	3.8 / 7.2	4.8 / 9	5.9 / 11	7 / 13.2	8.3 / 15	9.7 / 15	11.1 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
16	Simple	1053	1320	1616	1939	2291	2671	3077	3512	3847	3844	3841	3838	3834
	Multiple	783	983	1204	1446	1709	1908	1904	1901	1898	1895	1892	1888	1885
	Min. Bearing	3.3 / 6.2	4.2 / 7.8	5.1 / 9.5	6.1 / 11.4	7.2 / 13.4	8.3 / 15	9.6 / 15	11 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
18	Simple	816	1024	1255	1507	1781	2076	2393	2732	3091	3411	3408	3404	3401
	Multiple	606	761	933	1121	1326	1547	1688	1685	1681	1678	1675	1672	1669
	Min. Bearing	2.9 / 5.5	3.6 / 6.8	4.5 / 8.4	5.3 / 10	6.3 / 11.8	7.3 / 13.8	8.4 / 15	9.6 / 15	10.9 / 15	12 / 15	12 / 15	12 / 15	12 / 15
20	Simple	635	815	999	1201	1420	1656	1909	2180	2467	2772	3061	3058	3055
	Multiple	481	604	741	892	1055	1232	1421	1511	1508	1505	1502	1499	1495
	Min. Bearing	2.5 / 4.9	3.2 / 6.1	4 / 7.4	4.8 / 8.9	5.6 / 10.5	6.5 / 12.2	7.5 / 14.1	8.6 / 15	9.7 / 15	10.9 / 15	12 / 15	12 / 15	12 / 15
22	Simple	471	662	812	977	1155	1348	1555	1776	2011	2259	2521	2774	2771
	Multiple	389	489	601	724	857	1001	1155	1320	1366	1363	1360	1357	1354
	Min. Bearing	2.1 / 4.4	2.9 / 5.5	3.6 / 6.7	4.3 / 8	5.1 / 9.5	5.9 / 11	6.8 / 12.7	7.7 / 14.5	8.7 / 15	9.8 / 15	10.9 / 15	12 / 15	12 / 15
24	Simple	357	516	671	808	956	1116	1288	1471	1666	1873	2091	2320	2535
	Multiple	320	403	495	597	707	827	955	1091	1237	1245	1242	1239	1236
	Min. Bearing	1.8 / 4	2.5 / 5	3.2 / 6.1	3.9 / 7.3	4.6 / 8.6	5.3 / 10	6.2 / 11.5	7 / 13.2	7.9 / 14.9	8.9 / 15	9.9 / 15	11 / 15	12 / 15
26	Simple	275	400	556	677	802	937	1082	1236	1401	1575	1758	1951	2154
	Multiple	266	336	414	499	592	692	800	915	1038	1145	1142	1139	1136
	Min. Bearing	1.5 / 3.6	2.1 / 4.6	2.9 / 5.6	3.6 / 6.7	4.2 / 7.9	4.9 / 9.2	5.6 / 10.6	6.4 / 12	7.3 / 13.6	8.1 / 15	9.1 / 15	10.1 / 15	11.1 / 15
28	Simple	215	314	438	575	681	796	919	1051	1191	1340	1497	1661	1835
	Multiple	224	284	350	422	501	587	678	776	881	991	1056	1053	1050
	Min. Bearing	1.5 / 3.4	1.8 / 4.2	2.5 / 5.1	3.3 / 6.2	3.9 / 7.3	4.5 / 8.5	5.2 / 9.7	5.9 / 11.1	6.7 / 12.5	7.5 / 14.1	8.4 / 15	9.3 / 15	10.2 / 15
30	Simple	170	250	351	474	584	683	789	903	1024	1152	1287	1429	1579
	Multiple	190	241	298	360	428	502	581	665	755	850	951	979	976
	Min. Bearing	1.5 / 3.1	1.6 / 3.9	2.2 / 4.8	2.9 / 5.7	3.6 / 6.7	4.2 / 7.8	4.8 / 9	5.5 / 10.3	6.2 / 11.6	7 / 13.1	7.8 / 14.5	8.6 / 15	9.5 / 15
32	Simple	136	201	283	384	505	591	684	782	888	999	1117	1240	1370
	Multiple	163	207	256	310	369	433	502	575	653	736	823	914	911
	Min. Bearing	1.5 / 3	1.5 / 3.6	1.9 / 4.4	2.6 / 5.3	3.3 / 6.3	3.9 / 7.3	4.5 / 8.4	5.1 / 9.6	5.8 / 10.8	6.5 / 12.2	7.2 / 13.6	8 / 15	8.8 / 15
34	Simple	109	163	231	315	416	516	597	683	775	873	976	1085	1199
	Multiple	141	179	222	269	321	376	436	500	569	641	718	798	853
	Min. Bearing	1.5 / 3	1.5 / 3.4	1.7 / 4.1	2.3 / 5	3 / 5.9	3.6 / 6.8	4.2 / 7.9	4.8 / 9	5.4 / 10.1	6.1 / 11.4	6.8 / 12.7	7.5 / 14	8.3 / 15
36	Simple	88	133	189	259	344	445	524	600	682	768	859	955	1056
	Multiple	122	156	193	235	280	329	382	438	499	563	630	701	776
	Min. Bearing	1.5 / 3	1.5 / 3.2	1.5 / 3.9	2 / 4.7	2.6 / 5.5	3.4 / 6.4	3.9 / 7.4	4.5 / 8.4	5.1 / 9.5	5.7 / 10.7	6.3 / 11.9	7 / 13.2	7.8 / 14.5
38	Simple	71	108	156	215	287	372	463	531	603	680	761	846	936
	Multiple	101	136	169	206	246	289	336	386	440	496	556	620	686
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.7	1.8 / 4.4	2.4 / 5.2	3 / 6	3.7 / 7	4.2 / 7.9	4.8 / 9	5.4 / 10.1	6 / 11.2	6.6 / 12.4	7.3 / 13.7
40	Simple	57	89	129	180	241	313	398	472	536	605	677	754	834
	Multiple	83	119	148	181	217	255	297	342	390	440	494	550	609
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.5	1.7 / 4.2	2.1 / 4.9	2.7 / 5.7	3.4 / 6.6	4 / 7.5	4.5 / 8.5	5.1 / 9.5	5.7 / 10.6	6.3 / 11.7	6.9 / 13
42	Simple	46	73	107	150	203	265	338	421	479	541	606	674	746
	Multiple	68	105	131	160	192	227	264	304	347	392	440	491	544
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.9	1.9 / 4.7	2.5 / 5.4	3.1 / 6.2	3.8 / 7.1	4.3 / 8	4.8 / 9	5.4 / 10	5.9 / 11.1	6.5 / 12.3
44	Simple	37	60	89	126	171	225	288	361	430	485	544	606	671
	Multiple	56	88	116	142	171	202	235	271	310	350	394	439	487
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.1	1.5 / 3.7	1.8 / 4.4	2.3 / 5.1	2.8 / 5.9	3.5 / 6.8	4.1 / 7.6	4.6 / 8.6	5.1 / 9.5	5.6 / 10.6	6.2 / 11.7

- Total Load values are limited by shear, moment or deflection equal to L/180. Total Load values are the capacity of the beam in addition to its own weight.
- Live Load values are limited by deflection equal to L/240. Check with project's design professional of record for other possible deflection limits.
- Live load equal to 0.75 of total load. For greater live/total applications (e.g. 50 psf snow or higher), analyze specific application with BC Calc software.
- Table assumes wet-use, above ground conditions.
- Table values assume that lateral support is provided at each support and continuously along the compression edge of the beam.
- Table values for Minimum Required Bearing Lengths are based on the allowable compression design value perpendicular to grain for the beam and the Total Load value shown. Other design considerations, such as a weaker support material, may warrant longer bearing lengths. Table values assume that support is provided across the full width of the beam.
- This table was designed to apply to a broad range of applications. It may be possible to exceed the limitations of this table by analyzing a specific application with the BC Calc software.
- For longer span applications, camber shall be considered by project's design professional of record.



Allowable Snow Roof Load [plf]

KEY TO TABLE:
Top Figure = Allowable Total Load [plf] for Simple Spans Only
Middle Figure = Total Load [plf] for Multiple Spans
Bottom Figure = Minimum Required Bearing Lengths at End / Intermediate Supports [in]

22F-V14/POC Grade - 115% Load Duration - Wet-Use Conditions

Span [ft]	Span Type	10.75" BOISE Glulam												
		15"	16.5"	18"	19.5"	21"	22.5"	24"	25.5"	27"	28.5"	30"	31.5"	33"
10	Simple	5281	6333	7475	7612	7608	7604	7600	7596	7592	7588	7584	7580	7576
	Multiple	3792	3788	3784	3780	3776	3773	3769	3765	3761	3757	3753	3749	3745
	Min. Bearing	8.3 / 15	10 / 15	11.8 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
12	Simple	3589	4305	5083	5921	6331	6327	6323	6319	6315	6311	6307	6303	6299
	Multiple	2682	3150	3146	3142	3138	3134	3130	3126	3122	3118	3114	3110	3107
	Min. Bearing	6.8 / 12.8	8.2 / 15	9.6 / 15	11.2 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
14	Simple	2585	3102	3664	4270	4919	5414	5411	5407	5403	5399	5395	5391	5387
	Multiple	1929	2316	2690	2686	2682	2678	2674	2670	2666	2662	2658	2654	2650
	Min. Bearing	5.8 / 10.8	6.9 / 12.9	8.1 / 15	9.5 / 15	10.9 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
16	Simple	1944	2333	2757	3213	3703	4225	4726	4722	4719	4715	4711	4707	4703
	Multiple	1448	1739	2056	2344	2340	2336	2332	2328	2324	2320	2316	2312	2308
	Min. Bearing	5 / 9.3	6 / 11.2	7 / 13.2	8.2 / 15	9.4 / 15	10.7 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
18	Simple	1509	1813	2142	2498	2879	3286	3719	4177	4186	4183	4179	4175	4171
	Multiple	1122	1349	1595	1861	2074	2070	2066	2062	2058	2054	2050	2046	2042
	Min. Bearing	4.4 / 8.2	5.2 / 9.8	6.2 / 11.6	7.2 / 13.5	8.3 / 15	9.4 / 15	10.7 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
20	Simple	1202	1444	1708	1992	2297	2622	2968	3334	3721	3757	3753	3749	3745
	Multiple	892	1072	1269	1481	1709	1857	1853	1849	1845	1841	1837	1833	1829
	Min. Bearing	3.9 / 7.3	4.7 / 8.7	5.5 / 10.3	6.4 / 12	7.4 / 13.8	8.4 / 15	9.5 / 15	10.7 / 15	11.9 / 15	12 / 15	12 / 15	12 / 15	12 / 15
22	Simple	977	1174	1389	1621	1870	2136	2418	2717	3033	3365	3405	3401	3397
	Multiple	723	870	1030	1203	1389	1587	1679	1675	1671	1667	1663	1659	1655
	Min. Bearing	3.5 / 6.6	4.2 / 7.9	4.9 / 9.3	5.8 / 10.8	6.6 / 12.4	7.6 / 14.2	8.5 / 15	9.6 / 15	10.7 / 15	11.8 / 15	12 / 15	12 / 15	12 / 15
24	Simple	807	971	1149	1342	1549	1770	2004	2253	2515	2790	3080	3110	3107
	Multiple	595	718	850	994	1148	1312	1487	1530	1526	1522	1518	1514	1510
	Min. Bearing	3.2 / 6	3.8 / 7.1	4.5 / 8.4	5.2 / 9.8	6 / 11.3	6.9 / 12.9	7.8 / 14.6	8.7 / 15	9.7 / 15	10.8 / 15	11.9 / 15	12 / 15	12 / 15
26	Simple	676	814	964	1127	1301	1487	1684	1894	2115	2347	2591	2847	2861
	Multiple	497	600	712	832	962	1100	1248	1404	1403	1399	1395	1391	1387
	Min. Bearing	2.9 / 5.5	3.5 / 6.5	4.1 / 7.7	4.8 / 9	5.5 / 10.3	6.3 / 11.8	7.1 / 13.3	8 / 15	8.9 / 15	9.9 / 15	10.9 / 15	11.9 / 15	12 / 15
28	Simple	539	691	819	957	1105	1264	1433	1611	1800	1998	2206	2424	2650
	Multiple	420	507	602	705	815	933	1059	1192	1298	1294	1290	1286	1282
	Min. Bearing	2.5 / 5	3.2 / 6	3.8 / 7.1	4.4 / 8.3	5.1 / 9.5	5.8 / 10.9	6.6 / 12.3	7.4 / 13.8	8.2 / 15	9.1 / 15	10 / 15	11 / 15	12 / 15
30	Simple	431	582	702	821	949	1086	1231	1385	1547	1719	1898	2086	2283
	Multiple	358	433	515	603	698	799	907	1022	1143	1203	1199	1195	1191
	Min. Bearing	2.2 / 4.7	2.9 / 5.6	3.5 / 6.6	4.1 / 7.7	4.7 / 8.8	5.4 / 10.1	6.1 / 11.4	6.8 / 12.8	7.6 / 14.3	8.4 / 15	9.3 / 15	10.2 / 15	11.1 / 15
32	Simple	348	472	607	710	822	940	1067	1201	1342	1491	1648	1811	1983
	Multiple	308	373	443	520	602	691	785	884	989	1100	1119	1115	1111
	Min. Bearing	1.9 / 4.3	2.6 / 5.2	3.3 / 6.1	3.8 / 7.2	4.4 / 8.2	5 / 9.4	5.7 / 10.6	6.4 / 11.9	7.1 / 13.3	7.8 / 14.7	8.6 / 15	9.5 / 15	10.4 / 15
34	Simple	284	386	511	619	717	821	932	1049	1173	1304	1441	1585	1735
	Multiple	266	323	385	452	524	601	683	770	862	959	1048	1045	1041
	Min. Bearing	1.7 / 4.1	2.3 / 4.9	3 / 5.7	3.6 / 6.7	4.1 / 7.7	4.7 / 8.8	5.3 / 9.9	5.9 / 11.1	6.6 / 12.4	7.3 / 13.8	8.1 / 15	8.9 / 15	9.7 / 15
36	Simple	233	319	423	544	630	722	819	923	1033	1148	1269	1396	1529
	Multiple	232	282	336	395	458	526	599	676	757	843	932	982	978
	Min. Bearing	1.5 / 3.8	2 / 4.6	2.6 / 5.4	3.4 / 6.3	3.9 / 7.2	4.4 / 8.2	5 / 9.3	5.6 / 10.5	6.2 / 11.7	6.9 / 12.9	7.6 / 14.2	8.3 / 15	9.1 / 15
38	Simple	192	265	352	457	556	638	725	817	914	1017	1125	1238	1356
	Multiple	203	247	295	347	403	464	528	596	668	744	824	908	922
	Min. Bearing	1.5 / 3.6	1.8 / 4.3	2.4 / 5.1	3 / 5.9	3.6 / 6.8	4.1 / 7.8	4.7 / 8.8	5.3 / 9.9	5.9 / 11	6.5 / 12.2	7.2 / 13.4	7.9 / 14.7	8.6 / 15
40	Simple	159	221	295	385	489	567	644	727	814	906	1002	1103	1209
	Multiple	178	217	260	306	357	410	468	528	593	661	732	807	872
	Min. Bearing	1.5 / 3.4	1.7 / 4.1	2.1 / 4.8	2.7 / 5.6	3.4 / 6.4	3.9 / 7.3	4.4 / 8.3	5 / 9.3	5.5 / 10.4	6.1 / 11.5	6.8 / 12.7	7.4 / 13.9	8.1 / 15
42	Simple	132	185	249	325	415	506	575	649	728	810	897	988	1082
	Multiple	157	192	230	272	316	365	416	470	528	589	653	720	790
	Min. Bearing	1.5 / 3.2	1.5 / 3.9	1.9 / 4.6	2.5 / 5.3	3.1 / 6.1	3.7 / 7	4.2 / 7.9	4.7 / 8.8	5.3 / 9.8	5.8 / 10.9	6.4 / 12	7 / 13.2	7.7 / 14.4
44	Simple	110	155	210	276	354	444	516	583	653	728	806	888	974
	Multiple	139	170	204	242	282	325	371	420	472	527	585	645	709
	Min. Bearing	1.5 / 3.1	1.5 / 3.7	1.8 / 4.3	2.3 / 5	2.8 / 5.8	3.5 / 6.6	4 / 7.5	4.5 / 8.4	5 / 9.4	5.5 / 10.4	6.1 / 11.4	6.7 / 12.5	7.3 / 13.7

- Total Load values are limited by shear, moment or deflection equal to L/180. Total Load values are the capacity of the beam in addition to its own weight.
- Live Load values are limited by deflection equal to L/240. Check with project's design professional of record for other possible deflection limits.
- Live load equal to 0.75 of total load. For greater live/total applications (e.g. 50 psf snow or higher), analyze specific application with BC Calc software.
- Table assumes wet-use, above ground conditions.
- Table values assume that lateral support is provided at each support and continuously along the compression edge of the beam.
- Table values for Minimum Required Bearing Lengths are based on the allowable compression design value perpendicular to grain for the beam and the Total Load value shown. Other design considerations, such as a weaker support material, may warrant longer bearing lengths. Table values assume that support is provided across the full width of the beam.
- This table was designed to apply to a broad range of applications. It may be possible to exceed the limitations of this table by analyzing a specific application with the BC Calc software.
- For longer span applications, camber shall be considered by project's design professional of record.



Allowable Non-Snow Roof Load [plf]

KEY TO TABLE:
Top Figure = Allowable Total Load [plf] for Simple Spans Only
Middle Figure = Total Load [plf] for Multiple Spans
Bottom Figure = Minimum Required Bearing Lengths at End / Intermediate Supports [in]

22F-V14/POC Grade - 125% Load Duration - Wet-Use Conditions

Span [ft]	Span Type	8.75" BOISE Glulam												
		12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"	25.5"	27"	28.5"	30"
10	Simple	3054	3869	4773	5724	6199	6196	6192	6189	6186	6183	6180	6176	6173
	Multiple	2284	2895	3087	3083	3080	3077	3074	3071	3067	3064	3061	3058	3055
	Min. Bearing	5.9 / 11.1	7.5 / 14.1	9.2 / 15	11.1 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
12	Simple	2113	2653	3244	3892	4594	5156	5153	5150	5146	5143	5140	5137	5134
	Multiple	1579	1983	2425	2564	2560	2557	2554	2551	2548	2545	2541	2538	2535
	Min. Bearing	4.9 / 9.3	6.2 / 11.6	7.6 / 14.2	9.1 / 15	10.7 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
14	Simple	1526	1912	2338	2806	3313	3861	4410	4407	4404	4401	4398	4394	4391
	Multiple	1138	1426	1746	2096	2189	2186	2183	2180	2176	2173	2170	2167	2164
	Min. Bearing	4.2 / 7.8	5.2 / 9.8	6.4 / 12	7.7 / 14.3	9 / 15	10.5 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
16	Simple	1146	1437	1759	2111	2494	2906	3349	3821	3847	3844	3841	3838	3834
	Multiple	853	1071	1311	1575	1861	1908	1904	1901	1898	1895	1892	1888	1885
	Min. Bearing	3.6 / 6.8	4.5 / 8.5	5.5 / 10.3	6.6 / 12.4	7.8 / 14.6	9.1 / 15	10.4 / 15	11.9 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
18	Simple	881	1116	1366	1641	1939	2260	2605	2973	3364	3411	3408	3404	3401
	Multiple	661	830	1017	1222	1445	1685	1688	1685	1681	1678	1675	1672	1669
	Min. Bearing	3.1 / 5.9	4 / 7.4	4.8 / 9.1	5.8 / 10.9	6.8 / 12.8	8 / 14.9	9.2 / 15	10.5 / 15	11.8 / 15	12 / 15	12 / 15	12 / 15	12 / 15
20	Simple	635	889	1089	1308	1546	1804	2079	2374	2686	3017	3061	3058	3055
	Multiple	525	659	809	972	1150	1342	1515	1511	1508	1505	1502	1499	1495
	Min. Bearing	2.5 / 5.3	3.5 / 6.6	4.3 / 8.1	5.2 / 9.7	6.1 / 11.4	7.1 / 13.3	8.2 / 15	9.3 / 15	10.5 / 15	11.8 / 15	12 / 15	12 / 15	12 / 15
22	Simple	471	678	886	1064	1259	1469	1694	1934	2190	2460	2745	2774	2771
	Multiple	425	535	656	790	935	1091	1259	1370	1366	1363	1360	1357	1354
	Min. Bearing	2.1 / 4.8	3 / 6	3.9 / 7.3	4.7 / 8.7	5.5 / 10.3	6.4 / 12	7.4 / 13.8	8.4 / 15	9.5 / 15	10.6 / 15	11.9 / 15	12 / 15	12 / 15
24	Simple	357	516	715	881	1042	1217	1404	1603	1816	2040	2277	2527	2535
	Multiple	350	440	541	652	772	902	1042	1191	1248	1245	1242	1239	1236
	Min. Bearing	1.8 / 4.3	2.5 / 5.4	3.4 / 6.6	4.2 / 7.9	5 / 9.4	5.8 / 10.9	6.7 / 12.5	7.6 / 14.3	8.6 / 15	9.7 / 15	10.8 / 15	11.9 / 15	12 / 15
26	Simple	275	400	556	739	875	1022	1180	1348	1527	1716	1916	2126	2335
	Multiple	292	368	453	546	647	756	874	999	1132	1145	1142	1139	1136
	Min. Bearing	1.5 / 4	2.1 / 5	2.9 / 6.1	3.9 / 7.3	4.6 / 8.6	5.3 / 10	6.1 / 11.5	7 / 13.1	7.9 / 14.8	8.9 / 15	9.9 / 15	10.9 / 15	12 / 15
28	Simple	215	314	438	591	743	869	1003	1147	1299	1461	1632	1811	2000
	Multiple	246	311	383	462	548	641	741	848	962	1060	1056	1053	1050
	Min. Bearing	1.5 / 3.7	1.8 / 4.6	2.5 / 5.6	3.4 / 6.7	4.2 / 7.9	4.9 / 9.2	5.6 / 10.6	6.4 / 12.1	7.3 / 13.6	8.2 / 15	9.1 / 15	10.1 / 15	11.1 / 15
30	Simple	170	250	351	474	623	746	862	986	1117	1257	1404	1559	1721
	Multiple	209	265	327	395	469	549	635	727	825	929	982	979	976
	Min. Bearing	1.5 / 3.4	1.6 / 4.2	2.2 / 5.2	2.9 / 6.2	3.8 / 7.3	4.5 / 8.5	5.2 / 9.8	6 / 11.2	6.7 / 12.6	7.6 / 14.2	8.4 / 15	9.3 / 15	10.3 / 15
32	Simple	136	201	283	384	506	646	747	855	969	1091	1219	1354	1495
	Multiple	179	228	281	340	405	474	549	629	714	804	900	914	911
	Min. Bearing	1.5 / 3.2	1.5 / 3.9	1.9 / 4.8	2.6 / 5.8	3.4 / 6.8	4.2 / 7.9	4.9 / 9.1	5.6 / 10.4	6.3 / 11.8	7 / 13.2	7.9 / 14.7	8.7 / 15	9.6 / 15
34	Simple	109	163	231	315	416	536	652	747	847	954	1066	1184	1309
	Multiple	151	197	244	295	352	413	478	548	623	702	785	857	853
	Min. Bearing	1.5 / 3	1.5 / 3.7	1.7 / 4.5	2.3 / 5.4	3 / 6.4	3.8 / 7.4	4.6 / 8.5	5.2 / 9.7	5.9 / 11	6.6 / 12.4	7.3 / 13.8	8.1 / 15	9 / 15
36	Simple	88	133	189	259	344	445	563	657	746	840	939	1044	1153
	Multiple	124	172	213	258	308	361	419	481	546	616	690	768	802
	Min. Bearing	1.5 / 3	1.5 / 3.5	1.5 / 4.2	2 / 5.1	2.6 / 6	3.4 / 7	4.2 / 8	4.9 / 9.2	5.5 / 10.3	6.2 / 11.6	6.9 / 12.9	7.6 / 14.3	8.4 / 15
38	Simple	71	108	156	215	287	372	472	581	660	744	832	925	1023
	Multiple	101	150	186	227	270	318	369	424	482	544	610	679	751
	Min. Bearing	1.5 / 3	1.5 / 3.3	1.5 / 4	1.8 / 4.8	2.4 / 5.6	3 / 6.6	3.8 / 7.6	4.6 / 8.6	5.2 / 9.7	5.8 / 10.9	6.5 / 12.2	7.2 / 13.5	7.9 / 14.9
40	Simple	57	89	129	180	241	313	398	497	587	662	741	824	912
	Multiple	83	126	164	200	239	281	327	376	428	483	542	603	668
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.8	1.7 / 4.5	2.1 / 5.3	2.7 / 6.2	3.4 / 7.1	4.2 / 8.2	4.9 / 9.2	5.5 / 10.3	6.1 / 11.5	6.8 / 12.8	7.5 / 14.1
42	Simple	46	73	107	150	203	265	338	423	520	592	663	738	817
	Multiple	68	105	145	177	212	250	291	335	381	431	483	539	597
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.6	1.5 / 4.3	1.9 / 5.1	2.5 / 5.9	3.1 / 6.8	3.8 / 7.7	4.6 / 8.7	5.2 / 9.8	5.8 / 10.9	6.5 / 12.1	7.1 / 13.3
44	Simple	37	60	89	126	171	225	288	361	445	532	596	664	735
	Multiple	56	88	128	157	189	223	260	299	341	386	433	483	535
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.4	1.5 / 4.1	1.8 / 4.8	2.3 / 5.6	2.8 / 6.4	3.5 / 7.3	4.2 / 8.3	5 / 9.3	5.5 / 10.4	6.1 / 11.5	6.8 / 12.7

- Total Load values are limited by shear, moment or deflection equal to L/180. Total Load values are the capacity of the beam in addition to its own weight.
- Live Load values are limited by deflection equal to L/240. Check with project's design professional of record for other possible deflection limits.
- Live load equal to 0.75 of total load.
- Table assumes wet-use, above ground conditions.
- Table values assume that lateral support is provided at each support and continuously along the compression edge of the beam.
- Table values for Minimum Required Bearing Lengths are based on the allowable compression design value perpendicular to grain for the beam and the Total Load value shown. Other design considerations, such as a weaker support material, may warrant longer bearing lengths. Table values assume that support is provided across the full width of the beam.
- This table was designed to apply to a broad range of applications. It may be possible to exceed the limitations of this table by analyzing a specific application with the BC Calc software.
- For longer span applications, camber shall be considered by project's design professional of record.



KEY TO TABLE:

Top Figure = Allowable Total Load [plf] for Simple Spans Only

Middle Figure = Total Load [plf] for Multiple Spans

Bottom Figure = Minimum Required Bearing Lengths at End / Intermediate Supports [in]

Allowable Non-Snow Roof Load [plf]

22F-V14/POC Grade - 125% Load Duration - Wet-Use Conditions

Span [ft]	Span Type	10.75" BOISE Glulam												
		15"	16.5"	18"	19.5"	21"	22.5"	24"	25.5"	27"	28.5"	30"	31.5"	33"
10	Simple	5744	6888	7616	7612	7608	7604	7600	7596	7592	7588	7584	7580	7576
	Multiple	3792	3788	3784	3780	3776	3773	3769	3765	3761	3757	3753	3749	3745
	Min. Bearing	9.1 / 15	10.9 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
12	Simple	3904	4683	5529	6335	6331	6327	6323	6319	6315	6311	6307	6303	6299
	Multiple	2918	3150	3146	3142	3138	3134	3130	3126	3122	3118	3114	3110	3107
	Min. Bearing	7.4 / 13.9	8.9 / 15	10.5 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
14	Simple	2814	3376	3987	4645	5351	5414	5411	5407	5403	5399	5395	5391	5387
	Multiple	2100	2521	2690	2686	2682	2678	2674	2670	2666	2662	2658	2654	2650
	Min. Bearing	6.3 / 11.7	7.5 / 14.1	8.8 / 15	10.3 / 15	11.9 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
16	Simple	2116	2540	3000	3497	4029	4598	4726	4722	4719	4715	4711	4707	4703
	Multiple	1577	1894	2238	2344	2340	2336	2332	2328	2324	2320	2316	2312	2308
	Min. Bearing	5.4 / 10.1	6.5 / 12.1	7.6 / 14.3	8.9 / 15	10.2 / 15	11.7 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
18	Simple	1644	1974	2333	2720	3134	3577	4048	4190	4186	4183	4179	4175	4171
	Multiple	1223	1470	1738	2027	2074	2070	2066	2062	2058	2054	2050	2046	2042
	Min. Bearing	4.7 / 8.9	5.7 / 10.7	6.7 / 12.6	7.8 / 14.6	9 / 15	10.2 / 15	11.6 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
20	Simple	1310	1574	1860	2170	2501	2856	3232	3630	3761	3757	3753	3749	3745
	Multiple	972	1169	1383	1614	1861	1857	1853	1849	1845	1841	1837	1833	1829
	Min. Bearing	4.2 / 7.9	5.1 / 9.5	6 / 11.2	7 / 13	8 / 15	9.1 / 15	10.3 / 15	11.6 / 15	12 / 15	12 / 15	12 / 15	12 / 15	12 / 15
22	Simple	1065	1280	1514	1767	2038	2327	2634	2960	3303	3409	3405	3401	3397
	Multiple	789	949	1124	1312	1515	1683	1679	1675	1671	1667	1663	1659	1655
	Min. Bearing	3.8 / 7.1	4.6 / 8.5	5.4 / 10.1	6.3 / 11.7	7.2 / 13.5	8.2 / 15	9.3 / 15	10.4 / 15	11.6 / 15	12 / 15	12 / 15	12 / 15	12 / 15
24	Simple	878	1059	1254	1463	1688	1928	2184	2454	2739	3040	3114	3110	3107
	Multiple	651	784	928	1085	1252	1432	1534	1530	1526	1522	1518	1514	1510
	Min. Bearing	3.4 / 6.5	4.1 / 7.8	4.9 / 9.2	5.7 / 10.7	6.6 / 12.3	7.5 / 14	8.4 / 15	9.5 / 15	10.6 / 15	11.7 / 15	12 / 15	12 / 15	12 / 15
26	Simple	683	889	1052	1229	1419	1621	1836	2064	2305	2558	2823	2865	2861
	Multiple	544	656	777	909	1050	1201	1362	1407	1403	1399	1395	1391	1387
	Min. Bearing	2.9 / 5.9	3.8 / 7.1	4.5 / 8.4	5.2 / 9.8	6 / 11.2	6.8 / 12.8	7.7 / 14.5	8.7 / 15	9.7 / 15	10.7 / 15	11.8 / 15	12 / 15	12 / 15
28	Simple	539	726	894	1044	1206	1379	1563	1757	1962	2178	2405	2642	2650
	Multiple	460	555	659	771	891	1019	1156	1301	1298	1294	1290	1286	1282
	Min. Bearing	2.5 / 5.5	3.4 / 6.6	4.1 / 7.7	4.8 / 9	5.5 / 10.4	6.3 / 11.8	7.1 / 13.4	8 / 15	8.9 / 15	9.9 / 15	10.9 / 15	11.9 / 15	12 / 15
30	Simple	431	582	765	897	1036	1185	1343	1511	1688	1875	2070	2275	2468
	Multiple	393	474	563	660	763	874	992	1117	1207	1203	1199	1195	1191
	Min. Bearing	2.2 / 5.1	2.9 / 6.1	3.8 / 7.2	4.5 / 8.3	5.1 / 9.6	5.8 / 11	6.6 / 12.4	7.4 / 13.9	8.3 / 15	9.2 / 15	10.1 / 15	11.1 / 15	12 / 15
32	Simple	348	472	622	777	898	1027	1165	1311	1465	1627	1798	1976	2162
	Multiple	338	409	486	570	660	756	858	967	1081	1123	1119	1115	1111
	Min. Bearing	1.9 / 4.7	2.6 / 5.7	3.4 / 6.7	4.1 / 7.8	4.8 / 9	5.4 / 10.2	6.2 / 11.5	6.9 / 12.9	7.7 / 14.4	8.5 / 15	9.4 / 15	10.3 / 15	11.3 / 15
34	Simple	284	386	511	658	784	898	1018	1146	1282	1424	1574	1730	1894
	Multiple	293	355	422	496	574	658	748	843	944	1049	1048	1045	1041
	Min. Bearing	1.7 / 4.4	2.3 / 5.3	3 / 6.2	3.8 / 7.3	4.5 / 8.4	5.1 / 9.5	5.8 / 10.8	6.5 / 12.1	7.2 / 13.5	8 / 15	8.8 / 15	9.6 / 15	10.5 / 15
36	Simple	233	319	423	546	689	789	896	1009	1129	1255	1387	1525	1670
	Multiple	255	310	369	434	503	577	656	740	829	922	986	982	978
	Min. Bearing	1.5 / 4.1	2 / 5	2.6 / 5.9	3.4 / 6.8	4.2 / 7.9	4.8 / 9	5.4 / 10.1	6.1 / 11.4	6.8 / 12.7	7.5 / 14	8.3 / 15	9.1 / 15	9.9 / 15
38	Simple	192	265	352	457	580	698	793	894	1000	1112	1229	1353	1481
	Multiple	224	272	325	382	443	509	579	654	732	815	902	926	922
	Min. Bearing	1.5 / 3.9	1.8 / 4.7	2.4 / 5.5	3 / 6.4	3.8 / 7.4	4.5 / 8.4	5.1 / 9.5	5.7 / 10.7	6.4 / 11.9	7.1 / 13.2	7.8 / 14.6	8.5 / 15	9.3 / 15
40	Simple	159	221	295	385	489	610	706	796	891	991	1096	1206	1321
	Multiple	197	240	287	338	392	451	514	580	650	724	802	876	872
	Min. Bearing	1.5 / 3.7	1.7 / 4.4	2.1 / 5.2	2.7 / 6.1	3.4 / 7	4.2 / 8	4.8 / 9	5.4 / 10.1	6 / 11.3	6.7 / 12.5	7.4 / 13.8	8.1 / 15	8.8 / 15
42	Simple	132	185	249	325	415	519	631	712	797	887	982	1081	1184
	Multiple	174	212	254	300	349	401	458	517	580	647	717	790	826
	Min. Bearing	1.5 / 3.5	1.5 / 4.2	1.9 / 5	2.5 / 5.8	3.1 / 6.6	3.8 / 7.6	4.6 / 8.6	5.1 / 9.6	5.7 / 10.7	6.3 / 11.9	7 / 13.1	7.6 / 14.3	8.4 / 15
44	Simple	110	155	210	276	354	444	547	639	716	798	883	972	1066
	Multiple	154	188	226	267	311	359	409	463	520	580	643	709	778
	Min. Bearing	1.5 / 3.3	1.5 / 4	1.8 / 4.7	2.3 / 5.5	2.8 / 6.3	3.5 / 7.2	4.2 / 8.1	4.9 / 9.1	5.4 / 10.2	6 / 11.3	6.6 / 12.4	7.3 / 13.6	7.9 / 14.9

- Total Load values are limited by shear, moment or deflection equal to L/180. Total Load values are the capacity of the beam in addition to its own weight.
- Live Load values are limited by deflection equal to L/240. Check with project's design professional of record for other possible deflection limits.
- Live load equal to 0.75 of total load.
- Table assumes wet-use, above ground conditions.
- Table values assume that lateral support is provided at each support and continuously along the compression edge of the beam.
- Table values for Minimum Required Bearing Lengths are based on the allowable compression design value perpendicular to grain for the beam and the Total Load value shown. Other design considerations, such as a weaker support material, may warrant longer bearing lengths. Table values assume that support is provided across the full width of the beam.
- This table was designed to apply to a broad range of applications. It may be possible to exceed the limitations of this table by analyzing a specific application with the BC Calc software.
- For longer span applications, camber shall be considered by project's design professional of record.