BOISE CASCADE®
LAMINATED BEAMS
STRUCTURAL WOODS

Durable Beam is Here!

Need a strong, beautiful engineered laminated beam that's highly decay resistant?

Alaska Yellow Cedar

Specify and order your Durable Laminated Beams today!

Boise Cascade
Engineered Wood Products

Please Note: Durable beams are intended for wet conditions of use above direct ground or water contact.

BOISE GLULAM® CEDAR Allowable Design Stresses

Product	Grade	Bending F_b [psi]		Horizontal Shear F_v [psi]	Modulus of Elasticity E [psi]	Compression Parallel to Grain Fc [psi]	Compression Perp to Grain Fc [psi]
		Tension Zone in Tension	Compression Zone in Tension				
Alaska Yellow Cedar 20F-V12	20F-V12	2000	1400	265	1,500,000	1500	560

Notes:

- Reduction factors shall be applied to design stresses in wet-use conditions, see information on the right.
- For fastener design, an equivalent specific gravity of 0.46 shall be used.
- Alaska Yellow Cedar Beams come in a variety of widths and depths including 8¾" and 10¾" sizes.
- This product is also available in a balanced layup, 20F-V13 grade.
- Evaluation Report: APA PR-L313.

Wet-Use Reduction Factors

Stress	Reduction Factor
Bending	0.8
Shear	0.875
Modulus of Elasticity	0.833
Tension	0.8
Compression Par. to Grain	0.73
Compression Perp to Grain	0.53

Wet-Use Conditions

National building codes require the use of naturally durable species or pressure preservative treated wood in exterior applications. Specifically addressing glulam products in these applications, the International Residential Code states the following:

> ***R319.1.5 Exposed glued-laminated timbers.***
>
> ***The portions of glued-laminated timbers that form the structural supports of a building or other structure and are exposed to weather and not properly protected by a roof, eave or similar covering shall be pressure treated with preservative, or be manufactured from naturally durable or preservative-treated wood.***

Alaska Yellow Cedar (AYC) is one such durable specie that BOISE GLULAM® currently manufactures. When designing structural components in exterior applications, moisture content shall be considered. Wood strength and stiffness properties decrease with an increase in moisture content. Allowable glulam design values assume a moisture content of 16% or less. If a beam or column application is subjected to conditions that may cause a sustained moisture content greater than 16%, wet-use factors shall be applied. Those values are shown with the allowable stress value table, per the 2012 National Design Specification (NDS) for Wood Construction:

Ultimately, it is a project's design professional of record and/or building official that should determine whether an exposed application shall be considered wet-use. This determination depends on the local climate, the amount of exposure, proximity to soil, etc. If a determination is not made by the project's design or code enforcement official, wet-use conditions should be assumed. It is recommended that exterior column applications be considered wet use, due to the higher probability of exposure. Beam load/span tables for both dry and wet conditions are listed on pages 4-18.

Cedar glulam products shall not be used in ground or below ground contact applications, or marine environments. The project's designer should consult a connector/fastener manufacturer in regards to coating recommendations for those products.

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BOISE GLULAM® CEDAR Design Values

Alaska Yellow Cedar 20F-V12 Design Values					
Width (in)	Depth (in)	Weight (plf)	Allowable Shear (lbs)	Allowable Moment (1) (2) (ft-lbs)	Moment of Inertia (in^4)
3⅛	6	4.2	3313	3125	56.3
	7½	5.3	4141	4883	109.9
	9	6.3	4969	7031	189.8
	10½	7.4	5797	9570	301.5
	12	8.4	6625	12500	450.0
	13½	9.5	7453	15820	640.7
	15	10.5	8281	19531	878.9
	16½	11.6	9109	23633	1169.8
	18	12.7	9938	28125	1518.8
	19½	13.7	10766	33008	1931.0
	21	14.8	11594	38034	2411.7
	22½	15.8	12422	43361	2966.3
	24	16.9	13250	49018	3600.0
5⅛	6	6.9	5433	5125	92.3
	7½	8.6	6791	8008	180.2
	9	10.4	8149	11531	311.3
	10½	12.1	9507	15695	494.4
	12	13.8	10865	20500	738.0
	13½	15.6	12223	25642	1050.8
	15	17.3	13581	31324	1441.4
	16½	19.0	14939	37543	1918.5
	18	20.8	16298	44292	2490.8
	19½	22.5	17656	51567	3166.8
	21	24.2	19014	59364	3955.2
	22½	25.9	20372	67679	4864.7
	24	27.7	21730	76509	5904.0
6¾	7½	11.4	8944	10547	237.3
	9	13.7	10733	15188	410.1
	10½	15.9	12521	20381	651.2
	12	18.2	14310	26267	972.0
	13½	20.5	16099	32854	1384.0
	15	22.8	17888	40136	1898.4
	16½	25.1	19676	48104	2526.8
	18	27.3	21465	56751	3280.5
	19½	29.6	23254	66073	4170.9
	21	31.9	25043	76063	5209.3
	22½	34.2	26831	86717	6407.2
	24	36.5	28620	98030	7776.0

Notes:

1. Allowable moment calculated using glulam volume factor (C_v) with a span length of 21 ft. Allowable moment shall be multiplied by $(21/\text{Span Length [ft]})^{1/10}$ for longer spans.
2. Allowable moment values assume simple span applications.
   Design values listed per dry-use conditions. For wet-use applications, apply corresponding factors per table on page 2.
3. Alaska Yellow Cedar beams come in a variety of widths and depths including 8¾" and 10¾" sizes. This product is also available in a balanced layup, 20F-V13 grade.

BOISE GLULAM® CEDAR™ Beams Floor Load Tables

3⅛" 20F-V12/AYC Grade
100% Load Duration – Dry-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	690	1080	1556	2119	2769	3506	4219	4218	4216	4215	4214	4213	4212
	Multiple	482	754	1087	1481	1936	2451	2614	2613	2612	2611	2610	2609	2608
	Min. Bearing	1.5 / 3	1.9 / 3.3	2.7 / 4.7	3.6 / 6.4	4.8 / 8.3	6 / 10.5	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	305	596	873	1189	1554	1968	2431	2942	3159	3158	3157	3156	3155
	Multiple	269	422	609	830	1085	1375	1698	1957	1956	1955	1954	1953	1952
	Min. Bearing	1.5 / 3	1.5 / 3	2 / 3.5	2.7 / 4.8	3.6 / 6.2	4.5 / 7.9	5.6 / 9.8	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	156	305	527	758	992	1256	1552	1879	2237	2524	2523	2522	2521
	Multiple	171	268	387	529	692	876	1083	1312	1562	1561	1560	1559	1558
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2.2 / 3.8	2.9 / 5	3.6 / 6.3	4.5 / 7.8	5.4 / 9.5	6.4 / 11.2	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	90	177	305	485	686	869	1074	1301	1550	1820	2100	2099	2098
	Multiple	117	185	267	365	478	606	749	907	1081	1270	1298	1297	1296
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.2	2.4 / 4.2	3 / 5.3	3.7 / 6.5	4.5 / 7.9	5.4 / 9.4	6.3 / 11	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	57	111	192	305	456	636	787	953	1135	1334	1548	1778	1796
	Multiple	75	134	195	266	349	442	547	664	791	929	1079	1109	1108
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.6	2.6 / 4.5	3.2 / 5.6	3.9 / 6.8	4.6 / 8	5.4 / 9.4	6.2 / 10.9	7.2 / 11.3	7.3 / 11.3
16	Simple	-	75	129	204	305	435	596	727	866	1018	1181	1357	1546
	Multiple	-	98	147	202	265	337	417	505	603	708	823	945	967
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	2 / 4	2.8 / 4.9	3.4 / 5.9	4 / 7	4.7 / 8.3	5.5 / 9.6	6.3 / 11	7.1 / 11.3
18	Simple	-	52	90	144	214	305	419	557	682	801	930	1069	1212
	Multiple	-	69	115	158	208	264	327	397	473	557	647	744	843
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.5	2.2 / 4.3	2.9 / 5.3	3.6 / 6.2	4.2 / 7.3	4.9 / 8.5	5.6 / 9.8	6.3 / 11.1
20	Simple	-	-	66	105	156	222	305	406	527	646	750	856	968
	Multiple	-	-	87	127	167	212	263	319	381	448	520	594	673
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.8 / 3.9	2.4 / 4.7	3.1 / 5.6	3.8 / 6.6	4.4 / 7.6	5 / 8.7	5.6 / 9.9
22	Simple	-	-	-	79	117	167	229	305	396	504	611	698	790
	Multiple	-	-	-	103	136	174	215	262	313	367	423	483	548
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	2 / 4.3	2.6 / 5.1	3.3 / 6	3.9 / 6.9	4.5 / 7.8	5.1 / 8.9
24	Simple	-	-	-	61	90	129	177	235	305	388	485	578	655
	Multiple	-	-	-	80	113	144	179	218	260	303	350	400	453
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.7 / 3.9	2.2 / 4.7	2.8 / 5.4	3.4 / 6.3	4.1 / 7.1	4.6 / 8.1
26	Simple	-	-	-	-	71	101	139	185	240	305	381	469	551
	Multiple	-	-	-	-	94	122	151	183	217	254	294	336	381
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.9 / 4.3	2.4 / 5	2.9 / 5.7	3.6 / 6.5	4.2 / 7.4
28	Simple	-	-	-	-	57	81	111	148	192	244	305	375	456
	Multiple	-	-	-	-	75	103	129	155	184	216	249	285	323
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.6 / 3.9	2.1 / 4.6	2.6 / 5.3	3.1 / 6	3.8 / 6.8
30	Simple	-	-	-	-	-	66	90	120	156	199	248	305	370
	Multiple	-	-	-	-	-	87	110	133	158	185	214	244	277
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.1	1.5 / 3.7	1.8 / 4.3	2.3 / 4.9	2.8 / 5.6	3.3 / 6.3
32	Simple	-	-	-	-	-	54	75	99	129	164	204	251	305
	Multiple	-	-	-	-	-	71	95	114	136	159	185	211	240
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.6 / 4	2 / 4.6	2.4 / 5.2	2.9 / 5.9
34	Simple	-	-	-	-	-	-	62	83	107	136	170	210	254
	Multiple	-	-	-	-	-	-	82	99	118	139	161	184	209
	Min. Bearing	-	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.2	1.5 / 3.7	1.8 / 4.3	2.2 / 4.9	2.6 / 5.5
36	Simple	-	-	-	-	-	-	52	70	90	115	144	177	214
	Multiple	-	-	-	-	-	-	69	87	103	122	141	162	184
	Min. Bearing	-	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.6 / 4	2 / 4.6	2.4 / 5.2
38	Simple	-	-	-	-	-	-	-	59	77	98	122	150	182
	Multiple	-	-	-	-	-	-	-	76	91	107	124	143	162
	Min. Bearing	-	-	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.8	1.8 / 4.3	2.2 / 4.9
40	Simple	-	-	-	-	-	-	-	-	66	84	105	129	156
	Multiple	-	-	-	-	-	-	-	-	80	95	110	126	144
	Min. Bearing	-	-	-	-	-	-	-	-	1.5 / 3	1.5 / 3.1	1.5 / 3.6	1.7 / 4.1	2 / 4.6

- 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.

BOISE GLULAM® CEDAR Beams Floor Load Tables

5⅛" 20F-V12/AYC Grade
100% Load Duration – Dry-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	1132	1771	2552	3476	4542	5750	6918	6917	6915	6913	6912	6910	6908
	Multiple	790	1237	1783	2429	3175	4020	4288	4286	4284	4282	4281	4279	4277
	Min. Bearing	1.5 / 3	1.9 / 3.3	2.7 / 4.7	3.6 / 6.4	4.8 / 8.3	6 / 10.5	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	500	978	1431	1950	2549	3228	3987	4826	5181	5179	5178	5176	5174
	Multiple	441	692	999	1361	1780	2255	2785	3210	3208	3206	3204	3203	3201
	Min. Bearing	1.5 / 3	1.5 / 3	2 / 3.5	2.7 / 4.8	3.6 / 6.2	4.5 / 7.9	5.6 / 9.8	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	256	500	865	1243	1626	2060	2545	3082	3669	4139	4137	4135	4134
	Multiple	280	440	635	867	1134	1437	1776	2151	2562	2560	2559	2557	2555
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2.2 / 3.8	2.9 / 5	3.6 / 6.3	4.5 / 7.8	5.4 / 9.5	6.4 / 11.2	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	148	290	500	795	1125	1426	1762	2134	2542	2985	3444	3442	3440
	Multiple	192	303	438	598	783	993	1228	1488	1773	2083	2128	2126	2125
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.2	2.4 / 4.2	3 / 5.3	3.7 / 6.5	4.5 / 7.9	5.4 / 9.4	6.3 / 11	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	93	182	315	500	747	1043	1290	1563	1862	2169	2499	2851	2945
	Multiple	123	220	319	436	572	726	898	1088	1297	1512	1742	1819	1817
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.6	2.6 / 4.5	3.2 / 5.6	3.9 / 6.8	4.6 / 8	5.3 / 9.4	6.2 / 10.8	7 / 11.3	7.3 / 11.3
16	Simple	63	122	211	335	500	713	978	1186	1401	1633	1882	2147	2429
	Multiple	82	161	242	331	435	552	683	825	975	1137	1310	1495	1587
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	2 / 4	2.8 / 4.9	3.4 / 5.9	4 / 6.9	4.6 / 8.1	5.3 / 9.3	6.1 / 10.6	6.8 / 11.3
18	Simple	-	86	148	235	352	500	687	914	1090	1270	1464	1671	1891
	Multiple	-	113	189	259	340	433	532	640	757	883	1018	1162	1315
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.5	2.2 / 4.3	2.9 / 5.2	3.5 / 6.1	4.1 / 7.1	4.7 / 8.2	5.3 / 9.3	6 / 10.5
20	Simple	-	63	108	172	256	365	500	666	865	1014	1169	1334	1510
	Multiple	-	82	142	208	273	345	423	509	602	703	811	926	1049
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.8 / 3.8	2.4 / 4.6	3.1 / 5.4	3.6 / 6.3	4.2 / 7.3	4.7 / 8.3	5.4 / 9.4
22	Simple	-	-	81	129	193	274	376	500	650	826	952	1087	1231
	Multiple	-	-	107	169	222	280	343	413	489	571	659	753	853
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	2 / 4.1	2.6 / 4.9	3.3 / 5.7	3.7 / 6.6	4.3 / 7.5	4.8 / 8.4
24	Simple	-	-	63	99	148	211	290	386	500	636	789	901	1021
	Multiple	-	-	82	131	183	230	283	341	404	472	545	623	706
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.7 / 3.8	2.2 / 4.4	2.8 / 5.2	3.4 / 6	3.9 / 6.8	4.4 / 7.7
26	Simple	-	-	-	78	117	166	228	303	394	500	625	758	859
	Multiple	-	-	-	103	152	192	237	285	338	396	457	523	593
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.9 / 4.1	2.4 / 4.7	2.9 / 5.5	3.6 / 6.2	4 / 7
28	Simple	-	-	-	63	93	133	182	243	315	401	500	616	731
	Multiple	-	-	-	82	123	162	200	241	287	335	388	444	503
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.6 / 3.7	2.1 / 4.4	2.6 / 5	3.1 / 5.7	3.7 / 6.5
30	Simple	-	-	-	-	76	108	148	197	256	326	407	500	607
	Multiple	-	-	-	-	100	138	171	206	245	287	332	380	432
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4	2.3 / 4.7	2.8 / 5.3	3.3 / 6
32	Simple	-	-	-	-	61	89	122	163	211	268	335	412	500
	Multiple	-	-	-	-	82	117	147	178	211	248	287	329	373
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.6 / 3.8	2 / 4.3	2.4 / 4.9	2.9 / 5.6
34	Simple	-	-	-	-	-	74	102	136	176	224	280	344	417
	Multiple	-	-	-	-	-	98	127	154	184	216	250	286	325
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.1	2.2 / 4.6	2.6 / 5.2
36	Simple	-	-	-	-	-	59	86	114	148	189	235	290	352
	Multiple	-	-	-	-	-	82	111	135	161	189	219	251	285
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.6 / 3.8	2 / 4.3	2.4 / 4.9
38	Simple	-	-	-	-	-	-	70	97	126	160	200	246	299
	Multiple	-	-	-	-	-	-	96	118	141	166	193	221	252
	Min. Bearing	-	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.5 / 3.6	1.8 / 4.1	2.2 / 4.6
40	Simple	-	-	-	-	-	-	58	81	108	137	172	211	256
	Multiple	-	-	-	-	-	-	82	104	125	147	171	196	223
	Min. Bearing	-	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.7 / 3.9	2 / 4.4

- 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.

BOISE GLULAM® CEDAR Beams Floor Load Tables

6¾" 20F-V12/AYC Grade
100% Load Duration – Dry-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	1491	2332	3361	4578	5982	7573	9112	9110	9108	9105	9103	9101	9098
	Multiple	1041	1629	2349	3200	4182	5295	5647	5645	5643	5640	5638	5636	5633
	Min. Bearing	1.5 / 3	1.9 / 3.3	2.7 / 4.7	3.6 / 6.4	4.8 / 8.3	6 / 10.5	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	659	1287	1885	2568	3357	4251	5251	6356	6824	6822	6819	6817	6815
	Multiple	581	911	1315	1793	2344	2969	3669	4227	4225	4223	4221	4218	4216
	Min. Bearing	1.5 / 3	1.5 / 3	2 / 3.5	2.7 / 4.8	3.6 / 6.2	4.5 / 7.9	5.6 / 9.8	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	338	659	1139	1638	2142	2713	3352	4059	4833	5451	5449	5447	5444
	Multiple	369	579	837	1142	1494	1893	2340	2833	3375	3372	3370	3368	3365
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2.2 / 3.8	2.9 / 5	3.6 / 6.3	4.5 / 7.8	5.4 / 9.5	6.4 / 11.2	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	195	381	659	1047	1482	1878	2321	2801	3307	3852	4437	4533	4531
	Multiple	253	399	577	788	1032	1308	1618	1953	2307	2688	2803	2801	2798
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.2	2.4 / 4.2	3 / 5.3	3.7 / 6.5	4.5 / 7.9	5.3 / 9.3	6.2 / 10.8	7.1 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	123	240	415	659	984	1374	1683	2020	2385	2779	3201	3652	3878
	Multiple	162	290	420	575	753	956	1171	1406	1661	1936	2231	2396	2393
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.6	2.6 / 4.5	3.2 / 5.5	3.8 / 6.6	4.5 / 7.8	5.2 / 9.1	6 / 10.5	6.8 / 11.3	7.3 / 11.3
16	Simple	82	161	278	442	659	939	1266	1520	1795	2092	2411	2750	3111
	Multiple	108	212	319	436	572	718	879	1056	1248	1455	1678	1915	2090
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	2 / 3.9	2.7 / 4.8	3.3 / 5.7	3.9 / 6.7	4.5 / 7.9	5.2 / 9	5.9 / 10.3	6.7 / 11.3
18	Simple	58	113	195	310	463	659	904	1181	1396	1627	1875	2140	2422
	Multiple	76	149	249	341	443	556	682	819	969	1130	1303	1488	1684
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.4	2.2 / 4.2	2.9 / 5	3.4 / 5.9	3.9 / 6.9	4.5 / 7.9	5.2 / 9.1	5.9 / 10.2
20	Simple	-	82	142	226	338	481	659	877	1113	1298	1497	1709	1934
	Multiple	-	108	187	271	351	442	542	652	771	900	1038	1186	1343
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.8 / 3.7	2.4 / 4.5	3 / 5.3	3.5 / 6.1	4 / 7.1	4.6 / 8.1	5.2 / 9.1
22	Simple	-	62	107	170	254	361	495	659	856	1057	1219	1392	1576
	Multiple	-	81	141	219	284	358	439	529	626	731	844	964	1092
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	2 / 4	2.6 / 4.8	3.2 / 5.5	3.6 / 6.4	4.2 / 7.3	4.7 / 8.2
24	Simple	-	-	82	131	195	278	381	508	659	838	1010	1154	1307
	Multiple	-	-	108	172	234	295	362	436	517	604	698	798	904
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.7 / 3.7	2.2 / 4.3	2.8 / 5	3.3 / 5.8	3.8 / 6.6	4.3 / 7.5
26	Simple	-	-	64	103	154	219	300	399	518	659	823	970	1099
	Multiple	-	-	85	135	195	246	303	365	433	506	585	669	758
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.9 / 4	2.4 / 4.6	2.9 / 5.3	3.5 / 6	3.9 / 6.8
28	Simple	-	-	-	82	123	175	240	320	415	528	659	811	935
	Multiple	-	-	-	108	162	207	256	309	366	429	496	568	644
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.6 / 3.6	2.1 / 4.2	2.6 / 4.9	3.1 / 5.6	3.6 / 6.3
30	Simple	-	-	-	64	100	142	195	260	338	429	536	659	800
	Multiple	-	-	-	88	132	177	218	264	313	367	425	486	552
	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	2.3 / 4.5	2.8 / 5.2	3.3 / 5.8
32	Simple	-	-	-	50	81	117	161	214	278	354	442	543	659
	Multiple	-	-	-	73	108	152	188	227	270	317	367	420	477
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.6 / 3.7	2 / 4.2	2.4 / 4.8	2.9 / 5.4
34	Simple	-	-	-	-	64	97	134	179	232	295	368	453	550
	Multiple	-	-	-	-	90	129	162	197	235	275	319	366	416
	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	2.6 / 5.1
36	Simple	-	-	-	-	51	78	113	150	195	248	310	381	463
	Multiple	-	-	-	-	76	108	141	172	205	241	279	321	365
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.6 / 3.7	2 / 4.2	2.4 / 4.8
38	Simple	-	-	-	-	-	64	92	128	166	211	264	324	394
	Multiple	-	-	-	-	-	92	124	151	180	212	246	283	322
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4	2.2 / 4.5
40	Simple	-	-	-	-	-	52	76	106	142	181	226	278	338
	Multiple	-	-	-	-	-	79	108	133	159	187	218	250	285
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.7 / 3.8	2 / 4.3

- 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.

BOISE GLULAM® CEDAR Beams Snow Load Tables

3⅛" 20F-V12/AYC Grade
115% Load Duration – Dry-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	794	1243	1791	2438	3186	4033	4219	4218	4216	4215	4214	4213	4212
	Multiple	555	868	1251	1705	2228	2615	2614	2613	2612	2611	2610	2609	2608
	Min. Bearing	1.5 / 3	2.1 / 3.7	3.1 / 5.4	4.2 / 7.3	5.5 / 9.6	6.9 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	445	697	1004	1368	1788	2265	2797	3160	3159	3158	3157	3156	3155
	Multiple	310	486	701	956	1249	1582	1955	1957	1956	1955	1954	1953	1952
	Min. Bearing	1.5 / 3	1.6 / 3	2.3 / 4	3.1 / 5.5	4.1 / 7.2	5.2 / 9.1	6.4 / 11.2	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	246	444	641	873	1142	1446	1786	2163	2525	2524	2523	2522	2521
	Multiple	197	309	446	609	797	1009	1247	1510	1562	1561	1560	1559	1558
	Min. Bearing	1.5 / 3	1.5 / 3	1.8 / 3.2	2.5 / 4.4	3.3 / 5.7	4.2 / 7.3	5.1 / 9	6.2 / 10.9	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	140	277	443	604	790	1001	1237	1498	1784	2095	2100	2099	2098
	Multiple	136	213	308	421	551	698	863	1045	1245	1299	1298	1297	1296
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2.1 / 3.7	2.7 / 4.8	3.5 / 6.1	4.3 / 7.5	5.2 / 9.1	6.2 / 10.8	7.2 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	87	173	301	442	578	733	906	1098	1307	1536	1782	1797	1796
	Multiple	98	155	225	307	402	510	631	765	911	1071	1110	1109	1108
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 3.1	2.3 / 4.1	3 / 5.2	3.7 / 6.4	4.4 / 7.8	5.3 / 9.2	6.2 / 10.8	7.2 / 11.3	7.3 / 11.3	7.3 / 11.3
16	Simple	57	114	200	320	441	559	691	838	998	1172	1361	1563	1569
	Multiple	74	118	171	233	306	388	481	583	695	817	948	969	967
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	2.1 / 3.6	2.6 / 4.5	3.2 / 5.6	3.9 / 6.8	4.6 / 8.1	5.4 / 9.5	6.3 / 11	7.2 / 11.3	7.3 / 11.3
18	Simple	39	78	138	222	334	440	544	659	786	924	1072	1232	1393
	Multiple	56	92	133	183	240	305	378	458	546	642	746	858	858
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 3.2	2.3 / 4	2.9 / 5	3.5 / 6	4.1 / 7.2	4.8 / 8.4	5.6 / 9.8	6.4 / 11.2	7.3 / 11.3
20	Simple	-	56	99	160	242	346	439	532	634	745	864	986	1116
	Multiple	-	73	107	147	193	245	304	369	440	518	601	686	771
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	2 / 3.6	2.6 / 4.5	3.1 / 5.4	3.7 / 6.5	4.3 / 7.6	5 / 8.8	5.7 / 10	6.5 / 11.3
22	Simple	-	41	73	118	179	258	356	438	522	611	705	805	910
	Multiple	-	60	87	120	158	201	249	303	362	424	489	558	632
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.3	2.3 / 4.1	2.8 / 4.9	3.4 / 5.9	3.9 / 6.9	4.5 / 7.9	5.2 / 9	5.8 / 10.2
24	Simple	-	30	55	90	136	196	272	364	435	507	585	668	756
	Multiple	-	45	72	100	131	167	208	253	300	351	405	462	524
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.7	2.6 / 4.5	3.1 / 5.4	3.6 / 6.2	4.1 / 7.2	4.7 / 8.2	5.3 / 9.3
26	Simple	-	-	42	69	105	152	212	284	365	426	492	562	636
	Multiple	-	-	61	84	111	141	175	213	252	294	340	388	440
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.5	2.2 / 4.2	2.8 / 4.9	3.3 / 5.7	3.8 / 6.6	4.3 / 7.5	4.9 / 8.5
28	Simple	-	-	32	54	83	120	167	225	295	363	419	479	542
	Multiple	-	-	48	71	94	120	150	180	214	250	289	330	374
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.9 / 3.8	2.5 / 4.5	3 / 5.3	3.5 / 6.1	4 / 6.9	4.5 / 7.8
30	Simple	-	-	-	42	66	96	134	181	237	304	360	412	467
	Multiple	-	-	-	61	81	104	128	154	183	214	248	284	322
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.6	2.1 / 4.2	2.7 / 4.9	3.2 / 5.6	3.7 / 6.4	4.1 / 7.3
32	Simple	-	-	-	33	53	77	109	147	193	248	312	358	405
	Multiple	-	-	-	51	70	90	110	133	158	185	215	246	279
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 3.9	2.4 / 4.6	3 / 5.2	3.4 / 6	3.9 / 6.8
34	Simple	-	-	-	-	42	63	89	121	159	205	258	313	355
	Multiple	-	-	-	-	61	78	96	116	138	162	187	214	243
	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	3.2 / 5.6	3.6 / 6.3
36	Simple	-	-	-	-	34	52	73	100	132	170	215	267	313
	Multiple	-	-	-	-	53	68	84	102	121	142	164	188	214
	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	2.9 / 5.2	3.4 / 5.9
38	Simple	-	-	-	-	-	42	61	83	110	143	181	224	275
	Multiple	-	-	-	-	-	60	74	89	107	125	145	166	189
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.7 / 3.8	2.1 / 4.3	2.6 / 4.9	3.2 / 5.6
40	Simple	-	-	-	-	-	35	50	70	93	120	153	190	233
	Multiple	-	-	-	-	-	52	65	79	94	111	129	148	168
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.5 / 3.6	1.9 / 4.1	2.4 / 4.7	2.9 / 5.3

- 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.

BOISE GLULAM® CEDAR Beams Snow Load Tables

5⅛" 20F-V12/AYC Grade
115% Load Duration – Dry-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	1303	2038	2936	3999	5225	6615	6918	6917	6915	6913	6912	6910	6908
	Multiple	910	1424	2052	2796	3653	4289	4288	4286	4284	4282	4281	4279	4277
	Min. Bearing	1.5 / 3	2.1 / 3.7	3.1 / 5.4	4.2 / 7.3	5.5 / 9.6	6.9 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	730	1142	1647	2244	2933	3714	4587	5183	5181	5179	5178	5176	5174
	Multiple	509	797	1150	1567	2049	2595	3206	3210	3208	3206	3204	3203	3201
	Min. Bearing	1.5 / 3	1.6 / 3	2.3 / 4	3.1 / 5.5	4.1 / 7.2	5.2 / 9.1	6.4 / 11.2	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	403	728	1050	1432	1872	2371	2930	3547	4141	4139	4137	4135	4134
	Multiple	323	507	732	999	1306	1655	2045	2477	2562	2560	2559	2557	2555
	Min. Bearing	1.5 / 3	1.5 / 3	1.8 / 3.2	2.5 / 4.4	3.3 / 5.7	4.2 / 7.3	5.1 / 9	6.2 / 10.9	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	230	455	726	991	1296	1642	2029	2457	2926	3436	3444	3442	3440
	Multiple	222	349	505	690	903	1145	1415	1714	2042	2130	2128	2126	2125
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2.1 / 3.7	2.7 / 4.8	3.5 / 6.1	4.3 / 7.5	5.2 / 9.1	6.2 / 10.8	7.2 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	142	283	494	725	948	1202	1486	1800	2144	2498	2878	2946	2945
	Multiple	161	254	368	504	660	837	1035	1254	1495	1742	1821	1819	1817
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 3.1	2.3 / 4.1	3 / 5.2	3.7 / 6.4	4.4 / 7.8	5.3 / 9.2	6.1 / 10.8	7.1 / 11.3	7.3 / 11.3	7.3 / 11.3
16	Simple	93	187	327	524	723	917	1134	1367	1615	1882	2168	2473	2573
	Multiple	122	193	280	383	502	637	788	951	1124	1310	1510	1588	1587
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	2.1 / 3.6	2.6 / 4.5	3.2 / 5.6	3.9 / 6.8	4.6 / 8	5.3 / 9.3	6.1 / 10.7	7 / 11.3	7.3 / 11.3
18	Simple	63	129	227	365	549	721	886	1064	1256	1464	1688	1926	2178
	Multiple	92	150	219	300	394	500	615	739	873	1018	1174	1340	1407
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 3.2	2.3 / 4	2.8 / 5	3.4 / 5.9	4 / 7	4.7 / 8.2	5.4 / 9.4	6.1 / 10.7	6.9 / 11.3
20	Simple	44	91	163	263	396	568	707	849	1003	1169	1348	1538	1741
	Multiple	66	120	175	241	316	399	489	588	696	812	936	1069	1210
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	2 / 3.6	2.5 / 4.4	3 / 5.3	3.6 / 6.2	4.2 / 7.3	4.8 / 8.4	5.5 / 9.5	6.2 / 10.8
22	Simple	32	67	120	194	294	423	575	691	817	953	1099	1254	1420
	Multiple	48	98	143	197	258	324	398	478	566	660	762	870	986
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.3	2.3 / 4	2.7 / 4.8	3.2 / 5.6	3.7 / 6.5	4.3 / 7.5	4.9 / 8.6	5.5 / 9.7
24	Simple	-	49	90	147	223	322	446	573	677	790	911	1041	1178
	Multiple	-	74	119	163	212	267	328	395	468	546	631	721	816
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.6	2.5 / 4.3	2.9 / 5.1	3.4 / 5.9	3.9 / 6.8	4.5 / 7.8	5 / 8.8
26	Simple	-	37	68	113	173	250	347	466	569	664	767	876	991
	Multiple	-	56	99	136	177	224	275	331	392	458	529	605	686
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.3	2.2 / 4	2.7 / 4.7	3.1 / 5.4	3.6 / 6.3	4.1 / 7.1	4.6 / 8.1
28	Simple	-	-	53	88	136	197	274	369	483	565	653	746	845
	Multiple	-	-	79	115	150	189	233	281	333	389	450	514	583
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.7	2.5 / 4.3	2.9 / 5	3.3 / 5.8	3.8 / 6.6	4.3 / 7.4
30	Simple	-	-	41	69	108	157	220	297	389	486	561	642	727
	Multiple	-	-	63	98	128	161	199	240	285	334	386	441	501
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.4	2.1 / 4	2.7 / 4.7	3.1 / 5.4	3.5 / 6.1	3.9 / 6.9
32	Simple	-	-	32	55	86	127	178	241	317	407	487	557	631
	Multiple	-	-	50	83	110	139	172	207	246	288	334	382	434
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.9 / 3.7	2.4 / 4.3	2.9 / 5	3.3 / 5.7	3.7 / 6.4
34	Simple	-	-	-	44	70	103	146	198	261	336	423	487	552
	Multiple	-	-	-	67	95	121	149	180	214	251	291	333	378
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.5	2.1 / 4.1	2.6 / 4.7	3 / 5.3	3.4 / 6
36	Simple	-	-	-	35	56	84	120	164	216	279	352	429	487
	Multiple	-	-	-	55	83	105	130	158	188	220	255	293	332
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 3.8	2.4 / 4.4	2.9 / 5	3.2 / 5.6
38	Simple	-	-	-	-	46	69	99	136	181	234	296	368	432
	Multiple	-	-	-	-	71	92	114	139	165	194	225	258	294
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.7 / 3.6	2.1 / 4.1	2.6 / 4.7	3 / 5.3
40	Simple	-	-	-	-	37	57	83	114	152	197	250	312	382
	Multiple	-	-	-	-	59	81	101	123	146	172	200	229	261
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.9 / 3.9	2.4 / 4.4	2.9 / 5

- 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.

BOISE GLULAM® CEDAR Beams Snow Load Tables

6¾" 20F-V12/AYC Grade
115% Load Duration – Dry-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	1716	2684	3868	5267	6882	8712	9112	9110	9108	9105	9103	9101	9098
	Multiple	1198	1875	2703	3682	4812	5649	5647	5645	5643	5640	5638	5636	5633
	Min. Bearing	1.5 / 3	2.1 / 3.7	3.1 / 5.4	4.2 / 7.3	5.5 / 9.6	6.9 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	961	1505	2169	2956	3863	4892	6042	6826	6824	6822	6819	6817	6815
	Multiple	670	1050	1515	2064	2699	3418	4222	4227	4225	4223	4221	4218	4216
	Min. Bearing	1.5 / 3	1.6 / 3	2.3 / 4	3.1 / 5.5	4.1 / 7.2	5.2 / 9.1	6.4 / 11.2	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	531	959	1384	1886	2466	3123	3858	4671	5454	5451	5449	5447	5444
	Multiple	426	668	964	1315	1721	2180	2694	3262	3375	3372	3370	3368	3365
	Min. Bearing	1.5 / 3	1.5 / 3	1.8 / 3.2	2.5 / 4.4	3.3 / 5.7	4.2 / 7.3	5.1 / 9	6.2 / 10.9	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	303	599	957	1305	1707	2163	2672	3225	3807	4435	4536	4533	4531
	Multiple	293	460	666	908	1189	1508	1864	2250	2657	2805	2803	2801	2798
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2.1 / 3.7	2.7 / 4.8	3.5 / 6.1	4.3 / 7.5	5.2 / 9	6.1 / 10.7	7.1 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	188	373	650	954	1249	1583	1939	2326	2747	3200	3686	3881	3878
	Multiple	213	335	485	663	869	1102	1350	1621	1914	2231	2398	2396	2393
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 3.1	2.3 / 4.1	3 / 5.2	3.6 / 6.4	4.4 / 7.6	5.1 / 9	6 / 10.5	6.9 / 11.3	7.3 / 11.3	7.3 / 11.3
16	Simple	123	246	431	691	952	1193	1459	1751	2068	2410	2777	3168	3389
	Multiple	161	254	368	504	661	829	1015	1218	1440	1678	1934	2092	2090
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	2.1 / 3.6	2.6 / 4.5	3.1 / 5.5	3.8 / 6.6	4.4 / 7.8	5.2 / 9	5.9 / 10.4	6.8 / 11.3	7.3 / 11.3
18	Simple	83	169	299	480	722	927	1135	1362	1609	1876	2161	2466	2790
	Multiple	122	198	288	395	512	643	787	946	1118	1304	1503	1716	1853
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 3.2	2.3 / 3.9	2.8 / 4.8	3.3 / 5.8	3.9 / 6.8	4.5 / 7.9	5.2 / 9.1	6 / 10.4	6.7 / 11.3
20	Simple	58	120	214	346	522	739	905	1087	1284	1497	1726	1970	2229
	Multiple	87	158	231	314	407	511	626	753	891	1039	1199	1369	1549
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	2 / 3.5	2.5 / 4.3	2.9 / 5.1	3.5 / 6.1	4 / 7.1	4.7 / 8.1	5.3 / 9.3	6 / 10.5
22	Simple	42	88	157	256	387	557	737	885	1046	1220	1407	1606	1818
	Multiple	63	129	188	254	330	415	509	612	724	845	975	1114	1262
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.2	2.2 / 3.9	2.6 / 4.6	3.1 / 5.5	3.6 / 6.4	4.2 / 7.3	4.8 / 8.4	5.4 / 9.4
24	Simple	-	65	118	193	294	424	588	733	867	1012	1167	1332	1508
	Multiple	-	97	154	209	271	342	420	506	599	699	807	922	1045
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.5	2.4 / 4.2	2.8 / 5	3.3 / 5.8	3.8 / 6.7	4.3 / 7.6	4.9 / 8.6
26	Simple	-	49	90	149	228	329	457	614	729	851	981	1121	1269
	Multiple	-	74	128	174	227	286	351	423	502	586	677	774	878
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.2	2.2 / 3.9	2.6 / 4.6	3 / 5.3	3.5 / 6.1	4 / 7	4.5 / 7.9
28	Simple	-	37	69	116	179	260	362	486	620	724	835	954	1081
	Multiple	-	57	104	147	191	242	297	359	426	498	575	658	746
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.6	2.4 / 4.2	2.8 / 4.9	3.2 / 5.6	3.7 / 6.4	4.1 / 7.2
30	Simple	-	-	54	91	142	207	290	391	513	622	718	821	930
	Multiple	-	-	82	125	163	206	254	307	364	427	493	564	640
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.3	2.1 / 3.9	2.6 / 4.5	3 / 5.2	3.4 / 5.9	3.8 / 6.7
32	Simple	-	-	42	72	114	167	235	318	418	536	623	713	808
	Multiple	-	-	65	107	140	178	219	265	315	369	427	489	555
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.9 / 3.6	2.4 / 4.2	2.8 / 4.9	3.2 / 5.5	3.6 / 6.3
34	Simple	-	-	33	58	92	136	192	261	344	442	545	623	707
	Multiple	-	-	52	89	121	154	190	230	274	321	372	426	484
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.4	2.1 / 3.9	2.6 / 4.5	3 / 5.2	3.3 / 5.9
36	Simple	-	-	-	46	74	111	158	216	285	368	464	549	623
	Multiple	-	-	-	72	105	134	166	201	240	281	326	374	425
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.9 / 3.7	2.4 / 4.3	2.8 / 4.9	3.1 / 5.5
38	Simple	-	-	-	37	60	92	131	180	238	308	390	485	552
	Multiple	-	-	-	59	92	118	146	177	211	248	288	330	375
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.5	2.1 / 4	2.6 / 4.6	3 / 5.2
40	Simple	-	-	-	-	49	76	109	150	200	260	330	411	492
	Multiple	-	-	-	-	78	103	129	156	187	220	255	293	333
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 3.8	2.4 / 4.3	2.8 / 4.9

- 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. 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.

BOISE GLULAM® CEDAR Beams Non-Snow Load Tables

3⅛" 20F-V12/AYC Grade
125% Load Duration – Dry-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	864	1351	1947	2651	3464	4220	4219	4218	4216	4215	4214	4213	4212
	Multiple	603	944	1361	1853	2422	2615	2614	2613	2612	2611	2610	2609	2608
	Min. Bearing	1.5 / 3	2.3 / 4.1	3.3 / 5.9	4.6 / 8	6 / 10.4	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	484	758	1092	1488	1945	2462	3041	3160	3159	3158	3157	3156	3155
	Multiple	338	529	763	1039	1359	1721	1958	1957	1956	1955	1954	1953	1952
	Min. Bearing	1.5 / 3	1.7 / 3.1	2.5 / 4.4	3.4 / 6	4.5 / 7.8	5.7 / 9.9	7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	246	483	697	950	1242	1573	1943	2352	2525	2524	2523	2522	2521
	Multiple	215	337	486	663	867	1098	1357	1563	1562	1561	1560	1559	1558
	Min. Bearing	1.5 / 3	1.5 / 3	2 / 3.5	2.7 / 4.8	3.6 / 6.2	4.5 / 7.9	5.6 / 9.8	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	140	277	482	657	860	1089	1346	1630	1940	2101	2100	2099	2098
	Multiple	148	232	335	458	599	760	939	1137	1300	1299	1298	1297	1296
	Min. Bearing	1.5 / 3	1.5 / 3	1.7 / 3	2.3 / 4	3 / 5.2	3.8 / 6.6	4.7 / 8.1	5.6 / 9.8	6.7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	87	173	301	481	629	798	986	1194	1422	1670	1798	1797	1796
	Multiple	107	169	245	334	438	555	687	832	992	1111	1110	1109	1108
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2 / 3.4	2.6 / 4.5	3.2 / 5.7	4 / 7	4.8 / 8.4	5.7 / 10	6.7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
16	Simple	57	114	200	320	480	608	752	912	1086	1276	1481	1570	1569
	Multiple	80	128	186	254	333	423	523	635	756	889	970	969	967
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	2.2 / 3.9	2.8 / 4.9	3.5 / 6.1	4.2 / 7.4	5 / 8.8	5.9 / 10.3	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3
18	Simple	39	78	138	222	334	479	592	718	855	1005	1167	1340	1393
	Multiple	56	100	146	199	262	332	411	499	595	699	812	859	858
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 3.5	2.5 / 4.4	3.1 / 5.4	3.8 / 6.6	4.5 / 7.8	5.2 / 9.2	6.1 / 10.6	7 / 11.3	7.3 / 11.3
20	Simple	-	56	99	160	242	346	478	579	690	811	941	1073	1215
	Multiple	-	80	117	160	210	267	331	402	479	564	654	747	771
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	2 / 4	2.8 / 4.9	3.4 / 5.9	4 / 7	4.7 / 8.3	5.5 / 9.6	6.2 / 10.9	7 / 11.3
22	Simple	-	41	73	118	179	258	356	477	568	666	767	876	991
	Multiple	-	60	95	131	172	219	272	330	394	462	533	608	689
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.6	2.3 / 4.4	3.1 / 5.4	3.7 / 6.4	4.3 / 7.5	4.9 / 8.6	5.6 / 9.8	6.3 / 11.1
24	Simple	-	30	55	90	136	196	272	364	473	552	637	727	823
	Multiple	-	45	79	109	143	183	227	276	328	382	441	504	571
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 4.1	2.6 / 4.9	3.3 / 5.8	3.9 / 6.8	4.5 / 7.8	5.1 / 8.9	5.8 / 10.1
26	Simple	-	-	42	69	105	152	212	284	371	465	536	612	693
	Multiple	-	-	62	92	121	154	192	232	275	321	371	424	480
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.8	2.2 / 4.5	2.9 / 5.3	3.6 / 6.2	4.1 / 7.2	4.7 / 8.2	5.3 / 9.2
28	Simple	-	-	32	54	83	120	167	225	295	377	457	522	591
	Multiple	-	-	48	78	103	132	164	197	233	273	315	360	408
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.9 / 4.2	2.5 / 4.9	3.1 / 5.7	3.8 / 6.6	4.3 / 7.5	4.9 / 8.5
30	Simple	-	-	-	42	66	96	134	181	237	304	382	449	509
	Multiple	-	-	-	63	89	114	140	169	200	234	271	310	351
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.7 / 3.9	2.1 / 4.6	2.7 / 5.3	3.4 / 6.1	4 / 7	4.5 / 7.9
32	Simple	-	-	-	33	53	77	109	147	193	248	312	386	442
	Multiple	-	-	-	51	77	98	121	146	173	203	234	268	304
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.9 / 4.3	2.4 / 4.9	3 / 5.7	3.7 / 6.5	4.2 / 7.3
34	Simple	-	-	-	-	42	63	89	121	159	205	258	320	387
	Multiple	-	-	-	-	64	85	105	127	151	177	205	234	266
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.7 / 4	2.1 / 4.6	2.6 / 5.3	3.3 / 6.1	3.9 / 6.9
36	Simple	-	-	-	-	34	52	73	100	132	170	215	267	326
	Multiple	-	-	-	-	53	75	92	111	133	155	180	206	234
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.5 / 3.7	1.9 / 4.3	2.4 / 5	2.9 / 5.7	3.5 / 6.5
38	Simple	-	-	-	-	-	42	61	83	110	143	181	224	275
	Multiple	-	-	-	-	-	64	81	98	117	137	159	182	207
	Min. Bearing	-	-	-	-	-	1.5 / 3	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
40	Simple	-	-	-	-	-	35	50	70	93	120	153	190	233
	Multiple	-	-	-	-	-	54	72	87	104	122	141	162	184
	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 / 5.1	2.9 / 5.7

- 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 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.

BOISE GLULAM® CEDAR Beams Non-Snow Load Tables

5⅛" 20F-V12/AYC Grade
125% Load Duration – Dry-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	1417	2216	3193	4348	5681	6920	6918	6917	6915	6913	6912	6910	6908
	Multiple	990	1548	2232	3040	3972	4289	4288	4286	4284	4282	4281	4279	4277
	Min. Bearing	1.5 / 3	2.3 / 4.1	3.3 / 5.9	4.6 / 8	6 / 10.4	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	794	1243	1791	2440	3189	4038	4988	5183	5181	5179	5178	5176	5174
	Multiple	554	867	1251	1705	2228	2822	3211	3210	3208	3206	3204	3203	3201
	Min. Bearing	1.5 / 3	1.7 / 3.1	2.5 / 4.4	3.4 / 6	4.5 / 7.8	5.7 / 9.9	7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	403	792	1143	1557	2036	2579	3186	3857	4141	4139	4137	4135	4134
	Multiple	352	552	797	1087	1421	1801	2225	2564	2562	2560	2559	2557	2555
	Min. Bearing	1.5 / 3	1.5 / 3	2 / 3.5	2.7 / 4.8	3.6 / 6.2	4.5 / 7.9	5.6 / 9.8	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	230	455	790	1078	1410	1786	2207	2672	3182	3445	3444	3442	3440
	Multiple	242	381	550	751	983	1246	1540	1865	2132	2130	2128	2126	2125
	Min. Bearing	1.5 / 3	1.5 / 3	1.7 / 3	2.3 / 4	3 / 5.2	3.8 / 6.6	4.7 / 8.1	5.6 / 9.8	6.7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	142	283	494	789	1032	1308	1617	1958	2332	2717	2948	2946	2945
	Multiple	176	277	401	548	718	911	1127	1365	1627	1822	1821	1819	1817
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2 / 3.4	2.6 / 4.5	3.2 / 5.7	4 / 7	4.8 / 8.4	5.7 / 10	6.7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
16	Simple	93	187	327	524	787	998	1234	1488	1757	2047	2359	2575	2573
	Multiple	132	210	305	417	547	694	859	1036	1224	1426	1590	1588	1587
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	2.2 / 3.9	2.8 / 4.9	3.5 / 6.1	4.2 / 7.4	5 / 8.7	5.8 / 10.1	6.6 / 11.3	7.3 / 11.3	7.3 / 11.3
18	Simple	63	129	227	365	549	785	964	1158	1367	1594	1836	2095	2284
	Multiple	92	164	239	327	429	545	670	805	951	1109	1278	1409	1407
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 3.5	2.5 / 4.4	3.1 / 5.4	3.7 / 6.5	4.4 / 7.6	5.1 / 8.9	5.8 / 10.2	6.7 / 11.3	7.3 / 11.3
20	Simple	44	91	163	263	396	568	770	924	1092	1273	1467	1674	1894
	Multiple	66	131	191	263	345	435	534	641	758	884	1020	1164	1264
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	2 / 3.9	2.7 / 4.8	3.3 / 5.8	3.9 / 6.8	4.5 / 7.9	5.2 / 9.1	5.9 / 10.4	6.7 / 11.3
22	Simple	32	67	120	194	294	423	584	753	890	1038	1197	1366	1546
	Multiple	48	98	156	215	281	354	434	521	617	720	830	948	1074
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.5	2.3 / 4.3	3 / 5.2	3.5 / 6.1	4.1 / 7.1	4.7 / 8.2	5.3 / 9.3	6 / 10.6
24	Simple	-	49	90	147	223	322	446	598	738	861	993	1133	1283
	Multiple	-	74	130	179	232	292	358	431	510	596	688	786	890
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.9 / 3.9	2.6 / 4.7	3.2 / 5.6	3.7 / 6.5	4.3 / 7.4	4.8 / 8.5	5.5 / 9.6
26	Simple	-	37	68	113	173	250	347	466	609	724	835	954	1080
	Multiple	-	56	102	149	194	244	300	361	428	500	577	660	748
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.6	2.2 / 4.3	2.9 / 5.1	3.4 / 5.9	3.9 / 6.8	4.4 / 7.8	5 / 8.8
28	Simple	-	-	53	88	136	197	274	369	483	617	711	813	920
	Multiple	-	-	79	126	164	207	254	307	363	425	491	561	636
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 4	2.5 / 4.7	3.1 / 5.5	3.6 / 6.3	4.1 / 7.2	4.6 / 8.1
30	Simple	-	-	41	69	108	157	220	297	389	499	612	700	793
	Multiple	-	-	63	104	140	177	218	263	312	364	421	482	546
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.7 / 3.7	2.1 / 4.3	2.7 / 5.1	3.3 / 5.8	3.8 / 6.6	4.3 / 7.5
32	Simple	-	-	32	55	86	127	178	241	317	407	512	608	689
	Multiple	-	-	50	83	120	152	188	227	269	315	365	418	474
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.9 / 4	2.4 / 4.7	3 / 5.4	3.5 / 6.2	4 / 7
34	Simple	-	-	-	44	70	103	146	198	261	336	423	524	603
	Multiple	-	-	-	67	104	132	163	198	235	275	318	365	414
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.7 / 3.8	2.1 / 4.4	2.6 / 5.1	3.3 / 5.8	3.7 / 6.5
36	Simple	-	-	-	35	56	84	120	164	216	279	352	437	532
	Multiple	-	-	-	55	86	116	143	173	206	241	280	320	364
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.9 / 4.1	2.4 / 4.8	2.9 / 5.4	3.5 / 6.1
38	Simple	-	-	-	-	46	69	99	136	181	234	296	368	450
	Multiple	-	-	-	-	71	102	126	152	182	213	247	283	322
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.7 / 3.9	2.1 / 4.5	2.6 / 5.1	3.2 / 5.8
40	Simple	-	-	-	-	37	57	83	114	152	197	250	312	382
	Multiple	-	-	-	-	59	88	111	135	161	189	219	252	286
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.5 / 3.7	1.9 / 4.2	2.4 / 4.8	2.9 / 5.5

- TTotal 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.

BOISE GLULAM® CEDAR Beams Non-Snow Load Tables

6¾" 20F-V12/AYC Grade
125% Load Duration – Dry-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	1866	2918	4205	5726	7482	9114	9112	9110	9108	9105	9103	9101	9098
	Multiple	1303	2039	2939	4004	5232	5649	5647	5645	5643	5640	5638	5636	5633
	Min. Bearing	1.5 / 3	2.3 / 4.1	3.3 / 5.9	4.6 / 8	6 / 10.4	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	1046	1637	2359	3214	4200	5319	6569	6826	6824	6822	6819	6817	6815
	Multiple	729	1142	1647	2245	2935	3717	4230	4227	4225	4223	4221	4218	4216
	Min. Bearing	1.5 / 3	1.7 / 3.1	2.5 / 4.4	3.4 / 6	4.5 / 7.8	5.7 / 9.9	7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	531	1043	1505	2051	2682	3397	4196	5080	5454	5451	5449	5447	5444
	Multiple	463	727	1049	1431	1872	2371	2930	3377	3375	3372	3370	3368	3365
	Min. Bearing	1.5 / 3	1.5 / 3	2 / 3.5	2.7 / 4.8	3.6 / 6.2	4.5 / 7.9	5.6 / 9.8	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	303	599	1041	1420	1857	2352	2907	3508	4140	4538	4536	4533	4531
	Multiple	319	501	725	989	1294	1641	2028	2448	2808	2805	2803	2801	2798
	Min. Bearing	1.5 / 3	1.5 / 3	1.7 / 3	2.3 / 4	3 / 5.2	3.8 / 6.6	4.7 / 8.1	5.6 / 9.8	6.6 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	188	373	650	1039	1359	1723	2110	2531	2988	3481	3883	3881	3878
	Multiple	232	365	529	722	946	1200	1470	1764	2083	2400	2398	2396	2393
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2 / 3.4	2.6 / 4.5	3.2 / 5.7	3.9 / 6.9	4.7 / 8.3	5.6 / 9.8	6.5 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
16	Simple	123	246	431	691	1036	1298	1588	1906	2251	2622	3021	3391	3389
	Multiple	173	277	402	549	720	903	1105	1326	1567	1827	2094	2092	2090
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	2.2 / 3.9	2.8 / 4.9	3.4 / 6	4.1 / 7.2	4.8 / 8.4	5.6 / 9.8	6.5 / 11.3	7.3 / 11.3	7.3 / 11.3
18	Simple	83	169	299	480	722	1009	1235	1483	1751	2041	2352	2684	3008
	Multiple	122	216	314	431	558	700	858	1030	1218	1420	1637	1856	1853
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 3.4	2.5 / 4.3	3 / 5.2	3.6 / 6.3	4.2 / 7.4	4.9 / 8.6	5.7 / 9.9	6.5 / 11.3	7.3 / 11.3
20	Simple	58	120	214	346	522	748	985	1183	1398	1630	1879	2144	2426
	Multiple	87	173	252	342	444	557	683	821	971	1132	1306	1491	1664
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	2 / 3.8	2.7 / 4.7	3.2 / 5.6	3.8 / 6.6	4.4 / 7.7	5.1 / 8.8	5.8 / 10.1	6.5 / 11.3
22	Simple	42	88	157	256	387	557	770	964	1140	1329	1532	1749	1979
	Multiple	63	130	205	277	360	452	555	667	790	921	1063	1214	1375
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.4	2.3 / 4.2	2.9 / 5	3.4 / 5.9	4 / 6.9	4.6 / 8	5.2 / 9.1	5.9 / 10.3
24	Simple	-	65	118	193	294	424	588	787	945	1102	1271	1451	1643
	Multiple	-	97	169	228	297	373	458	552	653	763	880	1006	1139
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.9 / 3.8	2.6 / 4.6	3.1 / 5.4	3.6 / 6.3	4.1 / 7.2	4.7 / 8.3	5.3 / 9.3
26	Simple	-	49	90	149	228	329	457	614	794	927	1069	1221	1383
	Multiple	-	74	134	191	248	312	384	462	548	640	739	845	957
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.5	2.2 / 4.2	2.8 / 4.9	3.3 / 5.8	3.8 / 6.6	4.3 / 7.6	4.9 / 8.5
28	Simple	-	37	69	116	179	260	362	486	637	789	911	1040	1178
	Multiple	-	57	104	161	210	264	325	392	465	544	628	718	814
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.9 / 3.9	2.5 / 4.6	3 / 5.3	3.5 / 6.1	4 / 7	4.5 / 7.9
30	Simple	-	-	54	91	142	207	290	391	513	657	784	895	1014
	Multiple	-	-	82	137	179	226	278	336	399	466	539	617	699
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 3.6	2.1 / 4.2	2.7 / 4.9	3.2 / 5.7	3.7 / 6.5	4.2 / 7.3
32	Simple	-	-	42	72	114	167	235	318	418	536	675	778	881
	Multiple	-	-	65	110	154	195	240	290	345	403	467	534	606
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 3.9	2.4 / 4.6	3 / 5.3	3.4 / 6	3.9 / 6.8
34	Simple	-	-	33	58	92	136	192	261	344	442	557	681	772
	Multiple	-	-	52	89	133	169	209	252	300	352	407	466	529
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	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	3.2 / 5.6	3.6 / 6.4
36	Simple	-	-	-	46	74	111	158	216	285	368	464	576	680
	Multiple	-	-	-	72	113	148	183	221	263	308	357	410	465
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.9 / 4	2.4 / 4.6	2.9 / 5.3	3.4 / 6
38	Simple	-	-	-	37	60	92	131	180	238	308	390	485	593
	Multiple	-	-	-	59	94	130	161	195	232	272	316	362	411
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.7 / 3.8	2.1 / 4.4	2.6 / 5	3.2 / 5.6
40	Simple	-	-	-	-	49	76	109	150	200	260	330	411	503
	Multiple	-	-	-	-	78	114	142	172	205	241	280	321	366
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.5 / 3.6	1.9 / 4.1	2.4 / 4.7	2.9 / 5.3

- 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.

BOISE GLULAM® CEDAR Beams Floor Load Tables

3⅛" 20F-V12/AYC Grade
100% Load Duration – Wet-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	551	863	1244	1694	2214	2233	2232	2231	2230	2229	2228	2227	2226
	Multiple	385	602	869	1184	1384	1383	1382	1381	1379	1378	1377	1376	1375
	Min. Bearing	1.8 / 3.1	2.8 / 4.9	4 / 7.1	5.5 / 9.6	7.2 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	254	483	697	950	1242	1573	1672	1671	1670	1668	1667	1666	1665
	Multiple	215	337	486	663	867	1035	1034	1033	1031	1030	1029	1028	1027
	Min. Bearing	1.5 / 3	2.1 / 3.7	3 / 5.3	4.1 / 7.2	5.4 / 9.4	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	130	254	439	605	792	1003	1239	1334	1333	1332	1331	1330	1329
	Multiple	136	213	309	421	552	699	825	824	823	822	821	819	818
	Min. Bearing	1.5 / 3	1.5 / 3	2.4 / 4.2	3.3 / 5.8	4.3 / 7.5	5.5 / 9.5	6.7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	75	147	254	404	547	694	857	1039	1109	1108	1107	1106	1105
	Multiple	93	147	212	290	380	483	597	684	683	682	681	680	679
	Min. Bearing	1.5 / 3	1.5 / 3	1.7 / 3.5	2.7 / 4.8	3.6 / 6.3	4.5 / 8	5.6 / 9.8	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	-	93	160	254	379	507	627	760	906	948	946	945	944
	Multiple	-	106	154	211	277	352	436	529	584	583	582	581	580
	Min. Bearing	-	1.5 / 3	1.5 / 3	2 / 4.1	2.9 / 5.4	3.9 / 6.8	4.8 / 8.4	5.8 / 10.2	6.9 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
16	Simple	-	62	107	170	254	362	478	579	690	811	826	825	824
	Multiple	-	80	117	160	210	267	331	402	479	508	507	506	505
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3.6	2.3 / 4.7	3.2 / 6	4.2 / 7.4	5.1 / 8.9	6.1 / 10.6	7.1 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
18	Simple	-	-	75	120	179	254	349	455	543	638	733	732	731
	Multiple	-	-	91	125	164	209	259	315	376	443	449	448	447
	Min. Bearing	-	-	1.5 / 3	1.5 / 3.2	1.8 / 4.2	2.6 / 5.3	3.5 / 6.5	4.5 / 7.9	5.4 / 9.4	6.3 / 11.1	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
20	Simple	-	-	55	87	130	185	254	338	437	514	597	657	656
	Multiple	-	-	72	100	132	168	208	253	302	356	403	402	401
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 4.8	2.9 / 5.9	3.8 / 7.1	4.8 / 8.5	5.7 / 10	6.6 / 11.3	7.3 / 11.3	7.3 / 11.3
22	Simple	-	-	-	66	98	139	191	254	330	420	486	555	595
	Multiple	-	-	-	81	107	137	170	207	248	291	336	364	363
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3.4	1.8 / 4.3	2.4 / 5.4	3.2 / 6.5	4.1 / 7.7	5.1 / 9	5.9 / 10.4	6.8 / 11.3	7.3 / 11.3
24	Simple	-	-	-	50	75	107	147	196	254	323	402	460	520
	Multiple	-	-	-	66	89	114	141	172	205	240	277	317	331
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3.1	1.5 / 4	2 / 4.9	2.7 / 5.9	3.5 / 7	4.4 / 8.2	5.4 / 9.4	6.1 / 10.8	6.9 / 11.3
26	Simple	-	-	-	-	59	84	116	154	200	254	318	386	437
	Multiple	-	-	-	-	74	95	119	144	171	201	232	265	301
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3.7	1.8 / 4.5	2.3 / 5.5	3 / 6.4	3.8 / 7.5	4.7 / 8.6	5.6 / 9.8	6.4 / 11.1
28	Simple	-	-	-	-	-	68	93	123	160	204	254	313	372
	Multiple	-	-	-	-	-	81	101	122	145	170	196	225	255
	Min. Bearing	-	-	-	-	-	1.5 / 3.4	1.6 / 4.2	2 / 5	2.6 / 5.9	3.3 / 6.9	4.1 / 8	5 / 9.1	5.9 / 10.3
30	Simple	-	-	-	-	-	55	75	100	130	165	207	254	309
	Multiple	-	-	-	-	-	69	86	104	124	145	168	192	219
	Min. Bearing	-	-	-	-	-	1.5 / 3.2	1.5 / 3.9	1.8 / 4.7	2.3 / 5.5	2.9 / 6.4	3.6 / 7.4	4.4 / 8.4	5.3 / 9.5
32	Simple	-	-	-	-	-	-	62	83	107	136	170	209	254
	Multiple	-	-	-	-	-	-	74	89	106	125	145	166	189
	Min. Bearing	-	-	-	-	-	-	1.5 / 3.6	1.6 / 4.3	2.1 / 5.1	2.6 / 6	3.2 / 6.9	3.9 / 7.8	4.7 / 8.9
34	Simple	-	-	-	-	-	-	52	69	89	114	142	175	212
	Multiple	-	-	-	-	-	-	64	77	92	108	126	144	164
	Min. Bearing	-	-	-	-	-	-	1.5 / 3.4	1.5 / 4.1	1.9 / 4.8	2.3 / 5.6	2.9 / 6.4	3.5 / 7.3	4.2 / 8.3
36	Simple	-	-	-	-	-	-	-	58	75	96	120	147	179
	Multiple	-	-	-	-	-	-	-	67	80	94	110	126	144
	Min. Bearing	-	-	-	-	-	-	-	1.5 / 3.8	1.7 / 4.5	2.1 / 5.2	2.6 / 6	3.2 / 6.9	3.8 / 7.8
38	Simple	-	-	-	-	-	-	-	-	64	81	102	125	152
	Multiple	-	-	-	-	-	-	-	-	70	83	96	111	126
	Min. Bearing	-	-	-	-	-	-	-	-	1.6 / 4.2	1.9 / 4.9	2.4 / 5.7	2.9 / 6.5	3.5 / 7.3
40	Simple	-	-	-	-	-	-	-	-	53	70	87	107	130
	Multiple	-	-	-	-	-	-	-	-	62	73	85	98	112
	Min. Bearing	-	-	-	-	-	-	-	-	1.5 / 4	1.8 / 4.7	2.2 / 5.4	2.7 / 6.1	3.2 / 6.9

- 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.

BOISE GLULAM® CEDAR Beams Floor Load Tables

5⅛" 20F-V12/AYC Grade
100% Load Duration – Wet-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	904	1415	2040	2778	3631	3663	3661	3659	3658	3656	3654	3652	3651
	Multiple	631	988	1425	1941	2269	2268	2266	2264	2262	2261	2259	2257	2255
	Min. Bearing	1.8 / 3.1	2.8 / 4.9	4 / 7.1	5.5 / 9.6	7.2 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	417	792	1143	1557	2036	2579	2742	2740	2738	2736	2735	2733	2731
	Multiple	352	552	797	1087	1421	1697	1695	1693	1692	1690	1688	1686	1685
	Min. Bearing	1.5 / 3	2.1 / 3.7	3 / 5.3	4.1 / 7.2	5.4 / 9.4	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	213	417	720	992	1298	1645	2033	2188	2186	2185	2183	2181	2179
	Multiple	223	350	506	691	905	1147	1353	1351	1349	1347	1346	1344	1342
	Min. Bearing	1.5 / 3	1.5 / 3	2.4 / 4.2	3.3 / 5.8	4.3 / 7.5	5.5 / 9.5	6.7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	124	241	417	662	897	1138	1406	1703	1818	1817	1815	1813	1811
	Multiple	153	240	348	476	624	792	979	1123	1121	1119	1117	1116	1114
	Min. Bearing	1.5 / 3	1.5 / 3	1.7 / 3.5	2.7 / 4.8	3.6 / 6.3	4.5 / 8	5.6 / 9.8	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	78	152	263	417	622	832	1029	1246	1485	1554	1552	1550	1549
	Multiple	102	174	253	347	455	577	715	867	958	956	954	952	951
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2 / 4.1	2.9 / 5.4	3.9 / 6.8	4.8 / 8.4	5.8 / 10.2	6.9 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
16	Simple	52	102	176	279	417	594	783	945	1117	1302	1355	1353	1352
	Multiple	69	131	191	263	345	438	543	656	776	834	832	830	828
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	2.3 / 4.7	3.2 / 6	4.2 / 7.4	5.1 / 8.9	6 / 10.5	7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
18	Simple	-	71	124	196	293	417	572	734	868	1012	1167	1200	1198
	Multiple	-	94	149	205	270	343	423	508	601	702	737	735	733
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3.2	1.8 / 4.2	2.6 / 5.3	3.5 / 6.5	4.5 / 7.8	5.3 / 9.2	6.1 / 10.7	7 / 11.3	7.3 / 11.3	7.3 / 11.3
20	Simple	-	52	90	143	213	304	417	555	691	807	930	1062	1076
	Multiple	-	69	118	164	216	273	335	403	478	558	644	659	657
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 4.7	2.9 / 5.8	3.8 / 6.9	4.7 / 8.2	5.4 / 9.5	6.3 / 11	7.1 / 11.3	7.3 / 11.3
22	Simple	-	-	68	107	160	228	313	417	541	656	757	865	975
	Multiple	-	-	89	133	175	221	271	327	387	453	523	597	595
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3.4	1.8 / 4.3	2.4 / 5.2	3.2 / 6.2	4.1 / 7.4	4.9 / 8.6	5.6 / 9.9	6.4 / 11.3	7.3 / 11.3
24	Simple	-	-	52	83	124	176	241	321	417	530	627	716	811
	Multiple	-	-	69	109	143	181	223	269	319	373	431	493	543
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3.1	1.5 / 3.9	2 / 4.7	2.7 / 5.7	3.5 / 6.7	4.4 / 7.8	5.1 / 9	5.8 / 10.2	6.6 / 11.3
26	Simple	-	-	-	65	97	138	190	253	328	417	521	601	681
	Multiple	-	-	-	86	119	151	186	224	267	312	361	413	469
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.6	1.8 / 4.3	2.3 / 5.2	3 / 6.1	3.8 / 7.1	4.7 / 8.2	5.4 / 9.4	6.1 / 10.6
28	Simple	-	-	-	50	78	111	152	202	263	334	417	511	579
	Multiple	-	-	-	69	100	127	157	189	225	264	305	350	397
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.3	1.6 / 4	2 / 4.8	2.6 / 5.7	3.3 / 6.6	4.1 / 7.6	4.9 / 8.6	5.6 / 9.8
30	Simple	-	-	-	-	62	90	124	164	213	271	339	417	497
	Multiple	-	-	-	-	83	108	133	161	192	225	261	299	340
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.7	1.8 / 4.4	2.3 / 5.2	2.9 / 6.1	3.6 / 7	4.4 / 8	5.2 / 9.1
32	Simple	-	-	-	-	-	73	102	135	176	224	279	344	417
	Multiple	-	-	-	-	-	92	114	138	165	194	225	258	293
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3.5	1.6 / 4.1	2.1 / 4.9	2.6 / 5.7	3.2 / 6.5	3.9 / 7.5	4.7 / 8.4
34	Simple	-	-	-	-	-	59	84	113	147	186	233	286	348
	Multiple	-	-	-	-	-	79	98	120	143	168	195	224	255
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3.2	1.5 / 3.9	1.9 / 4.6	2.3 / 5.3	2.9 / 6.1	3.5 / 7	4.2 / 7.9
36	Simple	-	-	-	-	-	-	68	95	124	157	196	241	293
	Multiple	-	-	-	-	-	-	85	104	124	146	170	196	223
	Min. Bearing	-	-	-	-	-	-	1.5 / 3	1.5 / 3.6	1.7 / 4.3	2.1 / 5	2.6 / 5.7	3.2 / 6.6	3.8 / 7.4
38	Simple	-	-	-	-	-	-	56	78	105	134	167	205	249
	Multiple	-	-	-	-	-	-	74	91	109	128	149	172	196
	Min. Bearing	-	-	-	-	-	-	1.5 / 3	1.5 / 3.4	1.6 / 4	1.9 / 4.7	2.4 / 5.4	2.9 / 6.2	3.5 / 7
40	Simple	-	-	-	-	-	-	-	64	87	114	143	176	213
	Multiple	-	-	-	-	-	-	-	79	95	113	132	152	173
	Min. Bearing	-	-	-	-	-	-	-	1.5 / 3.2	1.5 / 3.8	1.8 / 4.4	2.2 / 5.1	2.7 / 5.8	3.2 / 6.6

- 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.

BOISE GLULAM® CEDAR Beams Floor Load Tables

6¾" 20F-V12/AYC Grade
100% Load Duration – Wet-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	1191	1864	2686	3659	4782	4824	4822	4820	4817	4815	4813	4811	4808
	Multiple	831	1301	1876	2557	2989	2987	2984	2982	2980	2977	2975	2973	2971
	Min. Bearing	1.8 / 3.1	2.8 / 4.9	4 / 7.1	5.5 / 9.6	7.2 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	549	1043	1505	2051	2682	3397	3611	3608	3606	3604	3602	3599	3597
	Multiple	463	727	1049	1431	1872	2235	2232	2230	2228	2226	2223	2221	2219
	Min. Bearing	1.5 / 3	2.1 / 3.7	3 / 5.3	4.1 / 7.2	5.4 / 9.4	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	281	549	949	1307	1710	2166	2677	2882	2879	2877	2875	2873	2870
	Multiple	293	461	667	910	1191	1510	1781	1779	1777	1775	1772	1770	1768
	Min. Bearing	1.5 / 3	1.5 / 3	2.4 / 4.2	3.3 / 5.8	4.3 / 7.5	5.5 / 9.5	6.7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	163	318	549	872	1182	1498	1852	2236	2395	2393	2390	2388	2386
	Multiple	201	317	459	627	822	1043	1290	1478	1476	1474	1472	1469	1467
	Min. Bearing	1.5 / 3	1.5 / 3	1.7 / 3.5	2.7 / 4.8	3.6 / 6.3	4.5 / 8	5.6 / 9.8	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	102	200	346	549	820	1095	1342	1611	1902	2047	2044	2042	2040
	Multiple	135	230	333	457	599	761	932	1120	1261	1259	1257	1254	1252
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2 / 4.1	2.9 / 5.4	3.9 / 6.8	4.8 / 8.3	5.7 / 10	6.7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
16	Simple	69	134	232	368	549	782	1008	1211	1430	1668	1785	1783	1780
	Multiple	90	173	252	346	454	570	699	840	993	1098	1096	1093	1091
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	2.3 / 4.7	3.2 / 5.9	4.1 / 7.2	4.9 / 8.6	5.8 / 10.2	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
18	Simple	-	94	163	258	386	549	753	940	1111	1296	1494	1581	1578
	Multiple	-	124	196	270	351	441	541	650	769	898	970	968	966
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3.2	1.8 / 4.1	2.6 / 5.2	3.5 / 6.3	4.3 / 7.6	5.1 / 8.9	6 / 10.4	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3
20	Simple	-	69	119	188	281	400	549	731	885	1033	1191	1360	1417
	Multiple	-	90	156	213	277	349	429	516	611	714	824	868	866
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.7	2.1 / 4.6	2.9 / 5.6	3.8 / 6.8	4.6 / 8	5.3 / 9.3	6.1 / 10.7	7 / 11.3	7.3 / 11.3
22	Simple	-	50	89	142	211	301	413	549	713	840	969	1107	1254
	Multiple	-	68	117	172	224	282	347	418	495	579	669	765	784
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.8 / 4.2	2.4 / 5.1	3.2 / 6.1	4.1 / 7.2	4.8 / 8.4	5.5 / 9.6	6.3 / 11	7.1 / 11.3
24	Simple	-	-	69	109	163	232	318	423	549	695	802	916	1038
	Multiple	-	-	90	140	183	232	285	344	408	477	552	631	715
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2 / 4.6	2.7 / 5.5	3.5 / 6.5	4.3 / 7.6	5 / 8.7	5.7 / 10	6.4 / 11.3
26	Simple	-	-	51	86	128	182	250	333	432	549	673	769	872
	Multiple	-	-	71	113	152	193	238	287	341	399	461	528	599
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.2	2.3 / 5.1	3 / 6	3.8 / 6.9	4.6 / 8	5.2 / 9.1	5.9 / 10.3
28	Simple	-	-	-	66	102	146	200	266	346	440	549	654	741
	Multiple	-	-	-	90	128	162	200	242	288	337	390	447	508
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.2	1.6 / 3.9	2 / 4.7	2.6 / 5.5	3.3 / 6.4	4.1 / 7.4	4.8 / 8.4	5.4 / 9.5
30	Simple	-	-	-	51	82	119	163	217	281	357	446	549	636
	Multiple	-	-	-	73	108	137	170	206	245	288	333	382	434
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.8 / 4.3	2.3 / 5.1	2.9 / 5.9	3.6 / 6.8	4.4 / 7.8	5 / 8.8
32	Simple	-	-	-	-	64	97	134	178	232	295	368	452	549
	Multiple	-	-	-	-	90	117	145	177	211	247	287	329	375
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.4	1.6 / 4	2.1 / 4.7	2.6 / 5.5	3.2 / 6.4	3.9 / 7.3	4.7 / 8.2
34	Simple	-	-	-	-	50	77	111	149	193	246	307	377	458
	Multiple	-	-	-	-	75	101	125	153	182	214	249	286	325
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.1	1.5 / 3.8	1.9 / 4.4	2.3 / 5.2	2.9 / 6	3.5 / 6.8	4.2 / 7.7
36	Simple	-	-	-	-	-	62	90	125	163	207	258	318	386
	Multiple	-	-	-	-	-	87	109	132	158	187	217	250	285
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.5	1.7 / 4.2	2.1 / 4.9	2.6 / 5.6	3.2 / 6.4	3.8 / 7.2
38	Simple	-	-	-	-	-	-	73	103	138	176	220	270	328
	Multiple	-	-	-	-	-	-	94	116	139	163	190	219	250
	Min. Bearing	-	-	-	-	-	-	1.5 / 3	1.5 / 3.3	1.6 / 3.9	1.9 / 4.6	2.4 / 5.3	2.9 / 6	3.5 / 6.8
40	Simple	-	-	-	-	-	-	60	84	115	151	188	232	281
	Multiple	-	-	-	-	-	-	83	101	122	144	168	193	221
	Min. Bearing	-	-	-	-	-	-	1.5 / 3	1.5 / 3.1	1.5 / 3.7	1.8 / 4.3	2.2 / 5	2.7 / 5.7	3.2 / 6.4

- 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.

BOISE GLULAM® CEDAR Beams Snow Load Tables

3⅛" 20F-V12/AYC Grade
115% Load Duration – Wet-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	635	993	1431	1949	2235	2233	2232	2231	2230	2229	2228	2227	2226
	Multiple	443	693	1000	1362	1384	1383	1382	1381	1379	1378	1377	1376	1375
	Min. Bearing	2.1 / 3.6	3.2 / 5.6	4.6 / 8.1	6.3 / 11.1	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	355	556	802	1093	1429	1673	1672	1671	1670	1668	1667	1666	1665
	Multiple	247	388	560	763	998	1035	1034	1033	1031	1030	1029	1028	1027
	Min. Bearing	1.5 / 3	2.4 / 4.2	3.5 / 6.1	4.7 / 8.3	6.2 / 10.8	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	204	354	511	697	912	1155	1335	1334	1333	1332	1331	1330	1329
	Multiple	157	246	356	486	636	806	825	824	823	822	821	819	818
	Min. Bearing	1.5 / 3	1.9 / 3.4	2.8 / 4.9	3.8 / 6.6	5 / 8.7	6.3 / 11	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	116	230	353	482	630	799	988	1110	1109	1108	1107	1106	1105
	Multiple	108	169	245	335	439	556	686	684	683	682	681	680	679
	Min. Bearing	1.5 / 3	1.5 / 3	2.3 / 4.1	3.2 / 5.5	4.1 / 7.2	5.2 / 9.1	6.5 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	72	143	250	352	461	585	723	876	949	948	946	945	944
	Multiple	78	123	178	244	320	406	503	585	584	583	582	581	580
	Min. Bearing	1.5 / 3	1.5 / 3	1.9 / 3.5	2.7 / 4.7	3.5 / 6.2	4.5 / 7.8	5.5 / 9.7	6.7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
16	Simple	47	94	165	265	351	445	551	668	796	827	826	825	824
	Multiple	59	93	135	185	243	309	382	464	509	508	507	506	505
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2.3 / 4.2	3.1 / 5.4	3.9 / 6.9	4.8 / 8.5	5.9 / 10.2	7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
18	Simple	31	64	114	184	275	350	433	525	626	734	733	732	731
	Multiple	45	72	105	145	190	242	300	364	435	450	449	448	447
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.7	2.8 / 4.8	3.5 / 6.1	4.3 / 7.5	5.2 / 9.1	6.2 / 10.8	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
20	Simple	-	46	82	132	200	282	349	423	505	594	658	657	656
	Multiple	-	58	84	116	153	194	241	293	350	404	403	402	401
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3.3	2.2 / 4.3	3.1 / 5.5	3.9 / 6.8	4.7 / 8.2	5.6 / 9.8	6.5 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
22	Simple	-	33	60	97	148	213	286	348	415	486	561	596	595
	Multiple	-	47	68	94	125	159	197	240	287	336	365	364	363
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.9	2.6 / 5	3.5 / 6.2	4.3 / 7.5	5.1 / 8.9	5.9 / 10.4	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3
24	Simple	-	-	44	73	112	162	225	290	345	403	465	531	544
	Multiple	-	-	57	78	103	132	164	200	238	278	321	332	331
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.6 / 3.6	2.2 / 4.6	3 / 5.6	3.9 / 6.8	4.6 / 8.1	5.4 / 9.4	6.2 / 10.9	7.1 / 11.3	7.3 / 11.3
26	Simple	-	-	34	56	86	125	175	235	290	338	391	446	501
	Multiple	-	-	47	66	87	111	138	168	199	233	269	305	304
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 4.2	2.6 / 5.2	3.5 / 6.3	4.2 / 7.4	4.9 / 8.6	5.7 / 9.9	6.5 / 11.3	7.3 / 11.3
28	Simple	-	-	-	43	67	99	138	186	243	288	332	380	430
	Multiple	-	-	-	55	74	94	118	142	168	197	228	261	281
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3.1	1.6 / 3.9	2.2 / 4.8	3 / 5.8	3.9 / 6.8	4.5 / 8	5.2 / 9.2	6 / 10.4	6.7 / 11.3
30	Simple	-	-	-	34	53	78	110	149	196	247	285	326	370
	Multiple	-	-	-	47	63	81	100	121	144	169	195	224	254
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.7	1.9 / 4.5	2.6 / 5.4	3.4 / 6.3	4.2 / 7.4	4.9 / 8.5	5.5 / 9.7	6.3 / 10.9
32	Simple	-	-	-	-	42	63	89	121	159	204	247	283	321
	Multiple	-	-	-	-	54	70	86	104	124	146	169	193	220
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3.4	1.7 / 4.2	2.3 / 5	3 / 5.9	3.8 / 6.9	4.5 / 7.9	5.2 / 9	5.8 / 10.2
34	Simple	-	-	-	-	34	51	72	99	130	168	212	247	280
	Multiple	-	-	-	-	47	60	75	91	108	127	147	168	191
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3.2	1.5 / 3.9	2 / 4.7	2.6 / 5.5	3.3 / 6.4	4.2 / 7.4	4.8 / 8.4	5.4 / 9.5
36	Simple	-	-	-	-	-	41	59	81	108	139	177	217	247
	Multiple	-	-	-	-	-	52	65	79	94	111	128	147	168
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3.7	1.8 / 4.4	2.3 / 5.2	3 / 6	3.7 / 6.9	4.5 / 7.9	5.1 / 9
38	Simple	-	-	-	-	-	34	49	67	90	117	148	184	219
	Multiple	-	-	-	-	-	46	57	69	83	97	113	130	148
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3.5	1.6 / 4.1	2.1 / 4.9	2.7 / 5.7	3.3 / 6.5	4.1 / 7.5	4.8 / 8.4
40	Simple	-	-	-	-	-	-	40	56	75	98	125	156	191
	Multiple	-	-	-	-	-	-	50	61	73	86	100	115	131
	Min. Bearing	-	-	-	-	-	-	1.5 / 3.3	1.5 / 3.9	1.9 / 4.6	2.4 / 5.4	3 / 6.2	3.7 / 7.1	4.5 / 8

- 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.

BOISE GLULAM® CEDAR Beams Snow Load Tables

5⅛" 20F-V12/AYC Grade
115% Load Duration – Wet-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	1041	1628	2347	3197	3665	3663	3661	3659	3658	3656	3654	3652	3651
	Multiple	727	1137	1640	2234	2269	2268	2266	2264	2262	2261	2259	2257	2255
	Min. Bearing	2.1 / 3.6	3.2 / 5.6	4.6 / 8.1	6.3 / 11.1	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	582	912	1316	1793	2344	2743	2742	2740	2738	2736	2735	2733	2731
	Multiple	406	636	918	1251	1636	1697	1695	1693	1692	1690	1688	1686	1685
	Min. Bearing	1.5 / 3	2.4 / 4.2	3.5 / 6.1	4.7 / 8.3	6.2 / 10.8	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	335	581	838	1143	1495	1894	2190	2188	2186	2185	2183	2181	2179
	Multiple	257	404	584	796	1042	1321	1353	1351	1349	1347	1346	1344	1342
	Min. Bearing	1.5 / 3	1.9 / 3.4	2.8 / 4.9	3.8 / 6.6	5 / 8.7	6.3 / 11	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	191	377	579	790	1034	1310	1620	1820	1818	1817	1815	1813	1811
	Multiple	176	278	402	549	720	913	1124	1123	1121	1119	1117	1116	1114
	Min. Bearing	1.5 / 3	1.5 / 3	2.3 / 4.1	3.2 / 5.5	4.1 / 7.2	5.2 / 9.1	6.5 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	118	234	410	577	756	959	1185	1436	1556	1554	1552	1550	1549
	Multiple	128	202	293	400	525	666	825	959	958	956	954	952	951
	Min. Bearing	1.5 / 3	1.5 / 3	1.9 / 3.5	2.7 / 4.7	3.5 / 6.2	4.5 / 7.8	5.5 / 9.7	6.7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
16	Simple	76	154	271	435	575	730	904	1090	1288	1357	1355	1353	1352
	Multiple	96	152	222	304	399	507	627	757	835	834	832	830	828
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2.3 / 4.2	3.1 / 5.4	3.9 / 6.9	4.8 / 8.5	5.8 / 10.2	6.9 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
18	Simple	52	106	187	302	452	574	705	847	1001	1167	1202	1200	1198
	Multiple	75	119	173	237	312	397	488	587	694	739	737	735	733
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.7	2.8 / 4.8	3.5 / 6.1	4.3 / 7.5	5.1 / 9	6 / 10.6	7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
20	Simple	36	75	134	217	328	458	562	675	798	931	1073	1078	1076
	Multiple	54	94	138	190	250	316	388	467	552	645	661	659	657
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	2.2 / 4.3	3.1 / 5.5	3.8 / 6.7	4.6 / 8	5.4 / 9.4	6.3 / 11	7.2 / 11.3	7.3 / 11.3	7.3 / 11.3
22	Simple	-	54	98	160	243	350	457	549	650	758	874	977	975
	Multiple	-	77	112	155	203	256	315	379	448	524	598	597	595
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.9	2.6 / 4.9	3.4 / 6	4.1 / 7.2	4.8 / 8.5	5.6 / 9.9	6.5 / 11.3	7.3 / 11.3	7.3 / 11.3
24	Simple	-	40	73	120	184	266	369	454	538	628	724	827	892
	Multiple	-	60	93	128	167	211	259	312	370	433	500	545	543
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.6	2.2 / 4.5	3 / 5.4	3.7 / 6.5	4.4 / 7.7	5.1 / 9	5.9 / 10.3	6.7 / 11.3	7.3 / 11.3
26	Simple	-	-	55	92	142	206	286	381	451	527	608	695	788
	Multiple	-	-	77	107	139	176	216	261	310	362	419	479	499
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 4.1	2.6 / 5	3.4 / 6	4 / 7.1	4.7 / 8.2	5.4 / 9.5	6.2 / 10.8	7 / 11.3
28	Simple	-	-	42	71	111	162	226	304	383	448	517	591	670
	Multiple	-	-	64	89	117	148	183	221	262	307	355	406	461
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.8	2.2 / 4.6	3 / 5.5	3.7 / 6.5	4.3 / 7.6	5 / 8.7	5.7 / 9.9	6.4 / 11.2
30	Simple	-	-	32	56	87	128	180	244	321	384	444	508	576
	Multiple	-	-	50	76	99	126	156	188	224	262	304	348	395
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.9 / 4.3	2.6 / 5.1	3.4 / 6	4 / 7	4.6 / 8.1	5.3 / 9.2	5.9 / 10.4
32	Simple	-	-	-	44	70	103	146	198	261	333	385	440	499
	Multiple	-	-	-	65	85	108	134	162	193	226	262	300	341
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.3	1.7 / 4	2.3 / 4.8	3 / 5.6	3.7 / 6.5	4.3 / 7.5	4.9 / 8.6	5.5 / 9.7
34	Simple	-	-	-	34	56	83	118	162	214	276	336	385	436
	Multiple	-	-	-	54	73	93	116	140	167	196	228	261	297
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.7	2 / 4.5	2.6 / 5.3	3.3 / 6.1	4 / 7	4.6 / 8	5.2 / 9.1
36	Simple	-	-	-	-	45	68	97	133	177	229	290	338	384
	Multiple	-	-	-	-	63	81	101	122	146	172	199	229	260
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.2	2.3 / 4.9	3 / 5.7	3.7 / 6.6	4.3 / 7.5	4.9 / 8.5
38	Simple	-	-	-	-	36	55	80	110	147	191	243	299	340
	Multiple	-	-	-	-	55	71	88	107	128	151	175	202	229
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.3	1.6 / 3.9	2.1 / 4.6	2.7 / 5.4	3.3 / 6.2	4.1 / 7.1	4.6 / 8
40	Simple	-	-	-	-	-	45	66	92	123	161	205	255	302
	Multiple	-	-	-	-	-	62	77	94	113	133	155	178	203
	Min. Bearing	-	-	-	-	-	1.5 / 3	1.5 / 3.1	1.5 / 3.7	1.9 / 4.4	2.4 / 5.1	3 / 5.9	3.7 / 6.7	4.3 / 7.6

- 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.

BOISE GLULAM® CEDAR Beams Snow Load Tables

6¾" 20F-V12/AYC Grade
115% Load Duration – Wet-Use Conditions
In pounds per lineal foot (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]

Span [ft]	Span Type	6"	7.5"	9"	10.5"	12"	13.5"	15"	16.5"	18"	19.5"	21"	22.5"	24"
6	Simple	1371	2145	3091	4210	4827	4824	4822	4820	4817	4815	4813	4811	4808
	Multiple	957	1498	2160	2942	2989	2987	2984	2982	2980	2977	2975	2973	2971
	Min. Bearing	2.1 / 3.6	3.2 / 5.6	4.6 / 8.1	6.3 / 11.1	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
8	Simple	767	1201	1733	2361	3087	3613	3611	3608	3606	3604	3602	3599	3597
	Multiple	534	838	1209	1648	2155	2235	2232	2230	2228	2226	2223	2221	2219
	Min. Bearing	1.5 / 3	2.4 / 4.2	3.5 / 6.1	4.7 / 8.3	6.2 / 10.8	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
10	Simple	441	765	1104	1505	1969	2494	2884	2882	2879	2877	2875	2873	2870
	Multiple	339	532	769	1049	1373	1740	1781	1779	1777	1775	1772	1770	1768
	Min. Bearing	1.5 / 3	1.9 / 3.4	2.8 / 4.9	3.8 / 6.6	5 / 8.7	6.3 / 11	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
12	Simple	251	497	763	1041	1362	1726	2133	2397	2395	2393	2390	2388	2386
	Multiple	232	366	530	724	948	1202	1481	1478	1476	1474	1472	1469	1467
	Min. Bearing	1.5 / 3	1.5 / 3	2.3 / 4.1	3.2 / 5.5	4.1 / 7.2	5.2 / 9.1	6.5 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
14	Simple	155	309	540	760	996	1263	1547	1856	2049	2047	2044	2042	2040
	Multiple	168	266	386	527	691	878	1076	1264	1261	1259	1257	1254	1252
	Min. Bearing	1.5 / 3	1.5 / 3	1.9 / 3.5	2.7 / 4.7	3.5 / 6.2	4.5 / 7.8	5.5 / 9.6	6.6 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
16	Simple	101	203	357	573	758	950	1163	1396	1649	1787	1785	1783	1780
	Multiple	127	201	292	400	525	659	807	970	1100	1098	1096	1093	1091
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	2.3 / 4.2	3.1 / 5.4	3.9 / 6.8	4.7 / 8.3	5.7 / 9.9	6.7 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
18	Simple	68	139	247	397	588	737	903	1085	1282	1495	1583	1581	1578
	Multiple	98	156	228	313	406	510	625	752	889	973	970	968	966
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.7	2.7 / 4.8	3.4 / 6	4.2 / 7.3	5 / 8.7	5.9 / 10.3	6.8 / 11.3	7.3 / 11.3	7.3 / 11.3	7.3 / 11.3
20	Simple	47	98	176	285	432	587	719	864	1022	1192	1374	1419	1417
	Multiple	71	124	182	248	322	405	497	597	707	825	870	868	866
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	2.2 / 4.2	3 / 5.3	3.7 / 6.5	4.4 / 7.8	5.2 / 9.2	6.1 / 10.7	7 / 11.3	7.3 / 11.3	7.3 / 11.3
22	Simple	33	71	129	210	320	461	585	703	832	970	1119	1278	1285
	Multiple	51	101	147	200	260	328	402	485	574	670	774	786	784
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 3.8	2.6 / 4.8	3.3 / 5.8	4 / 7	4.7 / 8.2	5.5 / 9.6	6.3 / 11.1	7.2 / 11.3	7.3 / 11.3
24	Simple	-	52	96	158	242	350	483	581	688	803	927	1059	1175
	Multiple	-	79	120	164	214	269	331	399	473	553	639	718	715
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.5	2.2 / 4.3	3 / 5.3	3.6 / 6.4	4.3 / 7.5	5 / 8.7	5.7 / 10	6.5 / 11.3	7.3 / 11.3
26	Simple	-	39	73	121	186	271	377	488	577	674	779	890	1008
	Multiple	-	60	100	136	178	225	277	334	396	463	535	613	657
	Min. Bearing	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.9 / 4	2.6 / 4.9	3.3 / 5.8	3.9 / 6.9	4.6 / 8	5.3 / 9.2	6 / 10.5	6.8 / 11.3
28	Simple	-	-	55	94	146	213	297	401	490	573	662	757	858
	Multiple	-	-	83	114	149	189	233	282	335	392	454	519	589
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.7	2.2 / 4.5	3 / 5.4	3.6 / 6.3	4.2 / 7.4	4.8 / 8.5	5.5 / 9.7	6.2 / 10.9
30	Simple	-	-	43	73	115	169	237	321	420	492	568	650	737
	Multiple	-	-	66	97	127	161	199	241	286	335	388	445	505
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.9 / 4.1	2.6 / 5	3.4 / 5.9	3.9 / 6.8	4.5 / 7.9	5.1 / 9	5.8 / 10.1
32	Simple	-	-	33	58	92	136	192	260	343	426	492	563	639
	Multiple	-	-	52	82	108	138	171	207	246	289	335	384	436
	Min. Bearing	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.7 / 3.9	2.3 / 4.6	3 / 5.5	3.6 / 6.4	4.2 / 7.3	4.8 / 8.3	5.4 / 9.4
34	Simple	-	-	-	45	73	110	156	213	282	363	430	492	558
	Multiple	-	-	-	71	93	119	148	179	214	251	291	334	380
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	2 / 4.3	2.6 / 5.1	3.3 / 5.9	3.9 / 6.8	4.5 / 7.8	5 / 8.8
36	Simple	-	-	-	36	59	89	128	175	233	301	377	432	491
	Multiple	-	-	-	58	81	103	128	156	186	219	255	292	333
	Min. Bearing	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.8 / 4.1	2.3 / 4.8	3 / 5.6	3.7 / 6.4	4.2 / 7.3	4.7 / 8.3
38	Simple	-	-	-	-	47	73	105	145	194	252	319	382	434
	Multiple	-	-	-	-	70	90	112	137	163	192	224	257	293
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3.2	1.6 / 3.8	2.1 / 4.5	2.7 / 5.3	3.3 / 6.1	3.9 / 6.9	4.5 / 7.8
40	Simple	-	-	-	-	38	59	87	121	162	212	269	336	386
	Multiple	-	-	-	-	61	79	98	120	144	170	198	228	259
	Min. Bearing	-	-	-	-	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.9 / 4.3	2.4 / 5	3 / 5.7	3.7 / 6.5	4.2 / 7.4

- 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. 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.

BOISE GLULAM® CEDAR COLUMNS

Allowable Axial Load – Combination 70 AYC – Wet Use Conditions

Column Length [ft]	3⅛" Wide Column Allowable Axial Load (lb)						5⅛" Wide Column Allowable Axial Load (lb)								
	3⅛" x 6"			3⅛" x 7½"			5⅛" x 5⅛"			5⅛" x 6"			5⅛" x 7½"		
	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%
4	7,630	8,570	9,170	9,620	10,800	11,550	11,250	12,780	13,790	13,300	15,150	16,340	16,780	19,140	20,660
5	6,970	7,690	8,140	8,790	9,710	10,260	10,780	12,170	13,070	12,800	14,490	15,590	16,230	18,400	19,810
6	6,180	6,700	7,010	7,800	8,460	8,850	10,230	11,460	12,250	12,230	13,740	14,700	15,570	17,540	18,790
7	5,390	5,760	5,980	6,800	7,270	7,540	9,620	10,690	11,360	11,570	12,890	13,720	14,810	16,540	17,630
8	4,670	4,940	5,100	5,890	6,230	6,420	8,980	9,880	10,430	10,850	11,970	12,660	13,950	15,430	16,340
9	4,050	4,250	4,370	5,100	5,350	5,500	8,310	9,050	9,500	10,090	11,020	11,580	13,020	14,250	14,490
10	3,520	3,680	3,770	4,440	4,630	4,740	7,640	8,250	8,620	9,320	10,080	10,540	12,050	13,050	13,650
11	3,080	3,200	3,270	3,880	4,030	4,110	7,010	7,510	7,810	8,560	9,190	9,570	11,090	11,910	12,400
12	2,710	2,810	2,860	3,410	3,530	3,600	6,410	6,830	7,080	7,850	8,380	8,690	10,180	10,860	11,260
13	2,400	2,480	2,520	3,020	3,110	3,160	5,870	6,220	6,430	7,210	7,640	7,900	9,340	9,900	10,240
14							5,380	5,680	5,860	6,610	6,980	7,200	8,570	9,050	9,320
15							4,950	5,200	5,350	6,080	6,390	6,580	7,880	8,280	8,510
16							4,560	4,770	4,900	5,600	5,870	6,030	7,250	7,590	7,780
17							4,200	4,390	4,500	5,170	5,400	5,540	6,690	6,970	7,140
18							3,880	4,050	4,140	4,780	4,980	5,100	6,170	6,430	6,570
19							3,600	3,740	3,820	4,430	4,600	4,700	5,720	5,930	6,060
20							3,340	3,470	3,540	4,110	4,270	4,360	5,300	5,490	5,600
21							3,110	3,220	3,290	3,830	3,960	4,040	4,930	5,100	5,190
22															
23															
24															

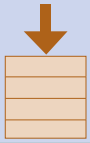
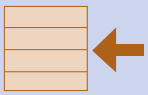
Column Length [ft]	6¾" Wide Column Allowable Axial Load (lb)					
	6¾" x 6"			6¾" x 7½"		
	100%	115%	125%	100%	115%	125%
4	17,630	20,130	21,750	22,290	25,470	27,570
5	17,130	19,460	20,990	21,780	24,820	26,790
6	16,540	18,700	20,080	21,180	24,020	25,880
7	15,870	17,830	19,080	20,500	23,150	24,840
8	15,140	16,880	17,980	19,740	22,160	23,720
9	14,340	15,870	16,810	18,930	21,110	22,480
10	13,500	14,810	15,600	18,040	19,980	21,180
11	12,640	13,750	14,420	17,120	18,810	19,840
12	11,790	12,720	13,280	16,170	17,630	18,510
13	10,960	11,760	12,230	15,210	16,470	17,230
14	10,180	10,860	11,260	14,270	15,360	16,010
15	9,460	10,040	10,390	13,370	14,320	14,880
16	8,790	9,290	9,590	12,520	13,350	13,830
17	8,180	8,620	8,880	11,730	12,450	12,880
18	7,620	8,000	8,230	10,990	11,630	12,000
19	7,100	7,450	7,640	10,310	10,870	11,200
20	6,640	6,940	7,110	9,680	10,180	10,460
21	6,210	6,480	6,630	9,090	9,540	9,800
22	5,820	6,060	6,190	8,560	8,960	9,180
23	5,460	5,670	5,800	8,060	8,410	8,620
24	5,140	5,320	5,430	7,600	7,920	8,100

Notes:

- Table assumes that the column is braced at column ends only. Effective column length is equal to actual column length.
- Allowable loads are based on one-piece column members used in dry service conditions.
- Allowable loads are based on an eccentricity value equal to 0.167 multiplied by either the column thickness or width (worst case).
- Allowable loads are based on axial loaded columns using the design provisions of the National Design Specification for Wood Construction (NDS), 2012 edition. For side or other combined bending and axial loads, see provisions of NDS, 2012 edition.
- See below for allowable design stresses.
- Load values are not shown for short lengths due to loads exceeding common connector capacites. Load values are not shown for longer lengths if the controling slenderness ratio exceeds 50 (per NDS).

BOISE GLULAM® CEDAR Column Allowable Design Stresses

Combination 70 AYC Column Grade

Compression Parallel to Grain F_c [psi]	Bending F_b [psi]		Modulus of Elasticity E [psi]		Compression Perpendicular to Grain (limiting direction) F_c [psi]	Tension Parallel to Grain F_t [psi]
	Load Perpendicular to Gluelines	Load Parallel to Gluelines	Load Perpendicular to Gluelines	Load Parallel to Gluelines		
						
1450	**1350**	**1400**	**1,300,000**	**1,300,000**	**470**	**975**

- For fastener connection design, an equivalent specific gravity of 0.46 shall be used.
- Design stresses listed for dry-use conditions. For wet-use conditions, apply factors shown on page 2.

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- Comparable strength that rivals treated glulams in Douglas fir and southern yellow pine
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- Ideal for chemical sensitive areas such as playground equipment and bridges *(not intended for direct contact with ground or water)*
- Architectural appearance that is light reflective
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- BOISE GLULAM® Alaska Yellow Cedar is available in our BC CALC® sizing software

The Boise Cascade Homedale facility also manufactures:

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