



Boise Cascade
Engineered Wood Products

BOISE GLULAM® 24F-V4 IJC GUIDE

for product manufactured in Homedale, Idaho



I-Joist Compatible Glulam Guide

Sizes Available

3½" x 7½"	5½" x 7½"
3½" x 9½"	5½" x 9½"
3½" x 11⅞"	5½" x 11⅞"
3½" x 14"	5½" x 14"
3½" x 16"	5½" x 16"

Low Cost, High Performance Solution

With higher bending and stiffness values, Boise Cascade IJCs are a high performance and cost effective alternative to LSL or OSB beams.

Industrial Framing Appearance Grade S2S Hit or Miss

Boise Cascade IJCs are commonly used for concealed applications where appearance is not important and I-Joist depth compatibility is important. Manufactured from Douglas Fir-Larch and carry the APA trademark.

BOISE GLULAM® Beam Specifier Guide

To view a full list of BOISE GLULAM® beams and to obtain additional technical information, please refer to the BOISE GLULAM® Beam Specifier Guide. The guide can be viewed or downloaded at www.bc.com/resources or pick up a guide at your local Boise Cascade Engineered Wood Products supplier.

BOISE GLULAM® IJC Design Values

Width [in]	Depth [in]	Weight [lb/ft]	Allowable Shear [lb]	Allowable Moment [ft-lb] ⁽¹⁾	Moment of Inertia [in ⁴]
3½	7½	6.4	4638	6553	123.0
	9½	8.1	5874	10529	250.1
	11⅞	10.1	7343	16402	488.4
	14	11.9	8657	22867	800.3
	16	13.6	9893	29867	1134.7
5½	7½	10.0	7288	10313	193.4
	9½	12.7	9231	16546	393.0
	11⅞	15.9	11533	25658	767.5
	14	18.7	13603	35135	1257.7
	16	21.4	15547	45281	1877.3

Note: (1) Allowable moment calculated using glulam volume factor (C_v) with a span length of 21 ft. Allowable moment shall be multiplied by (21/Span Length, [ft])^{1.3} for longer spans.

BOISE GLULAM® IJC Allowable Design Stresses

Bending F _b [psi]		Horizontal Shear F _v [psi]	Mod. lus of Elasticity E [psi]	Tension Parallel to Grain F _t [psi]	Compression Parallel to Grain F _c [psi]	Compression Perp to Grain F _c [psi]
Tension Zone in Tension	Compression Zone in Tension					
2400	1850	265	1,800,000	1100	1650	650

3 1/2" and 5 1/2" Floor Load Tables – 100%

		24F-V4 Grade – 100% Load Duration In pounds per lineal foot (PLF)									
Span [ft]	Span Type	3 1/2"					5 1/2"				
		7 1/2"	9 1/2"	11 1/8"	14"	16"	7 1/2"	9 1/2"	11 1/8"	14"	16"
6	Simple	1,52	2,332	3612	4,710	5,912	2,262	3661	5,124	7,401	9,307
	Multiple	1,116	1,796	2,650	3,339	4,057	1,756	2,821	4,161	5,247	6,412
	Min. Bearing	1.9 / 3.7	3.1 / 5.9	4.8 / 8.3	6.2 / 11	7.8 / 13.5	1.0 / 3.7	3.1 / 5.9	4.3 / 6.8	6.2 / 11	7.6 / 13.5
7	Simple	1,065	1,711	2,676	3,698	4,533	1,671	2,689	4,205	5,311	7,154
	Multiple	820	1,317	2,060	2,630	3,239	1,236	2,070	3,233	4,221	5,050
	Min. Bearing	1.6 / 3.2	2.6 / 5.1	4.1 / 7.3	5.7 / 10.4	7.1 / 12.5	1.6 / 3.2	2.6 / 5.1	4.1 / 8	5.7 / 10.4	7.1 / 12.5
8	Simple	725	1,008	1,546	2,146	2,696	1,219	2,056	3,216	4,473	5,509
	Multiple	626	1,006	1,575	2,191	2,685	981	1,562	2,475	3,444	4,219
	Min. Bearing	1.5 / 3	2.3 / 4.5	3.6 / 7	5.1 / 9.7	6.5 / 11.9	1.5 / 3	2.3 / 4.5	3.6 / 7	5.1 / 9.7	6.5 / 11.9
9	Simple	556	1,032	1,615	2,217	2,936	874	1,621	2,537	3,530	4,614
	Multiple	493	794	1,242	1,729	2,260	775	1,247	1,952	2,717	3,52
	Min. Bearing	1.5 / 3	2.1 / 4	3.2 / 6.2	4.5 / 8.6	5.3 / 11.2	1.5 / 3	2.1 / 4	3.2 / 6.2	4.5 / 8.6	5.8 / 11.2
10	Simple	404	825	1,306	1,817	2,376	655	1,297	2,052	2,856	3,733
	Multiple	390	611	1,004	1,398	1,826	626	1,003	1,578	2,197	2,873
	Min. Bearing	1.5 / 3	1.3 / 3.6	2.9 / 5.6	4.1 / 7.7	5.3 / 10.1	1.5 / 3	1.8 / 3.6	2.9 / 5.6	4.1 / 7.7	5.3 / 10.1
11	Simple	302	618	1,078	1,500	1,961	471	971	1,613	2,337	3,052
	Multiple	326	529	828	1,153	1,509	516	831	1,302	1,813	2,371
	Min. Bearing	1.5 / 3	1.5 / 3.2	2.6 / 5.1	3.7 / 7	4.8 / 9.2	1.5 / 3	1.5 / 3.2	2.6 / 5.1	3.7 / 7	4.8 / 9.2
12	Simple	231	474	904	1,258	1,646	363	745	1,420	1,978	2,586
	Multiple	275	443	694	967	1,265	432	696	1,091	1,520	1,936
	Min. Bearing	1.5 / 3	1.5 / 3	2.4 / 4.6	3.1 / 6.5	4.4 / 8.4	1.5 / 3	1.5 / 3	2.4 / 4.6	3.4 / 6.5	4.4 / 8.4
13	Simple	150	371	731	1,071	1,400	283	534	1,149	1,632	2,200
	Multiple	233	376	590	822	1,076	366	591	827	1,292	1,691
	Min. Bearing	1.5 / 3	1.5 / 3	2.1 / 4.3	3.1 / 6	4.1 / 7.8	1.5 / 3	1.5 / 3	2.1 / 4.3	3.1 / 6	4.1 / 7.8
14	Simple	143	296	533	921	1,205	227	465	816	1,448	1,894
	Multiple	190	323	503	708	926	299	503	798	1,112	1,431
	Min. Bearing	1.5 / 3	1.5 / 3	1.8 / 4	2.1 / 5.5	3.8 / 7.2	1.5 / 3	1.5 / 3	1.8 / 4	2.9 / 5.5	3.3 / 7.2
15	Simple	115	239	472	779	1,043	181	375	742	1,223	1,644
	Multiple	153	280	441	615	805	241	441	633	966	1,262
	Min. Bearing	1.5 / 3	1.5 / 3	1.6 / 3.7	2.6 / 5.2	3.5 / 6.7	1.5 / 3	1.5 / 3	1.6 / 3.7	2.6 / 5.2	3.5 / 6.7
16	Simple	94	195	327	639	920	147	307	609	1,005	1,433
	Multiple	125	246	396	539	706	177	386	607	847	1,091
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.5	2.3 / 4.3	3.3 / 6.3	1.5 / 3	1.5 / 3	1.5 / 3.5	2.3 / 4.3	3.3 / 6.3
17	Simple	71	162	321	531	797	121	254	505	835	1,212
	Multiple	103	215	341	476	624	163	336	533	747	963
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.3	2.1 / 4.6	3 / 6	1.5 / 3	1.5 / 3	1.5 / 3.3	2.1 / 4.6	3 / 5.9
18	Simple	64	135	261	446	669	100	212	423	700	1,052
	Multiple	86	180	303	423	555	135	263	473	660	857
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.1	1.8 / 4.3	2.7 / 5.6	1.5 / 3	1.5 / 3	1.5 / 3.1	1.8 / 4.3	2.7 / 5.6
19	Simple	53	113	227	377	567	81	178	357	592	831
	Multiple	72	152	271	379	497	114	233	426	587	760
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 4.1	2.4 / 5.3	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 4	2.4 / 5.2
20	Simple	45	96	193	322	484	71	151	304	505	761
	Multiple	61	129	244	341	447	100	203	332	526	680
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.9	2.2 / 5.1	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	2.2 / 4.9

- Uniform PLF load values are limited by shear, moment, total load (deflection limited to L/240 and live load deflection limited to L/360).
- Live load equal to 0.8 of total load (residential loading).
- Span is measured center to center of the supports.
- 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 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.

3½" and 5½" Roof Load Tables – 115%

24F-V4 Grade – 115% Load Duration In pounds per lineal foot (PLF)

Span [ft]	Span Type	3½"					5½"				
		7½"	9½"	11½"	14"	16"	7½"	9½"	11½"	14"	16"
		6	Simple	1671	2683	4190	5418	6813	2625	4216	6584
	Multiple	1286	2066	3049	3842	4694	2021	3247	4791	6037	7377
	Min. Bearing	2.2 / 4.3	3.5 / 6.8	5.5 / 10.1	7.2 / 12.7	9 / 15.5	2.2 / 4.3	3.5 / 6.8	5.5 / 10.1	7.2 / 12.7	9 / 15.5
7	Simple	1226	1969	3079	4255	5237	1926	3094	4838	6686	8230
	Multiple	943	1516	2371	3091	3727	1482	2382	3726	4857	5857
	Min. Bearing	1.9 / 3.7	3 / 5.9	4.8 / 9.2	6.6 / 11.9	8.1 / 14.4	1.9 / 3.7	3 / 5.9	4.8 / 9.2	6.6 / 11.9	8.1 / 14.4
8	Simple	937	1505	2355	3275	4253	1472	2366	3700	5147	6683
	Multiple	721	1159	1813	2522	3089	1133	1821	2849	3963	4855
	Min. Bearing	1.7 / 3.2	2.7 / 5.1	4.2 / 8	5.8 / 11.1	7.5 / 13.6	1.7 / 3.2	2.7 / 5.1	4.2 / 8	5.8 / 11.1	7.5 / 13.6
9	Simple	739	1188	1858	2585	3379	1161	1867	2920	4063	5309
	Multiple	568	914	1430	1990	2601	893	1436	2248	3127	4088
	Min. Bearing	1.5 / 3	2.4 / 4.6	3.7 / 7.1	5.1 / 9.9	6.7 / 12.9	1.5 / 3	2.4 / 4.6	3.7 / 7.1	5.1 / 9.9	6.7 / 12.9
10	Simple	597	961	1503	2092	2734	939	1510	2363	3287	4296
	Multiple	459	739	1157	1610	2104	721	1161	1818	2530	3307
	Min. Bearing	1.5 / 3	2.1 / 4.1	3.3 / 6.4	4.6 / 8.9	6 / 11.6	1.5 / 3	2.1 / 4.1	3.3 / 6.4	4.6 / 8.9	6 / 11.6
11	Simple	487	792	1241	1727	2257	765	1245	1950	2713	3547
	Multiple	378	609	954	1328	1737	594	957	1499	2087	2729
	Min. Bearing	1.5 / 3	1.9 / 3.7	3 / 5.8	4.2 / 8.1	5.5 / 10.6	1.5 / 3	1.9 / 3.7	3 / 5.8	4.2 / 8.1	5.5 / 10.6
12	Simple	373	665	1041	1449	1895	587	1044	1636	2277	2977
	Multiple	317	510	800	1114	1457	498	802	1257	1751	2290
	Min. Bearing	1.5 / 3	1.8 / 3.4	2.8 / 5.3	3.9 / 7.4	5 / 9.7	1.5 / 3	1.8 / 3.4	2.8 / 5.3	3.9 / 7.4	5 / 9.7
13	Simple	292	565	886	1233	1612	459	888	1392	1937	2534
	Multiple	269	434	680	948	1240	423	682	1069	1489	1948
	Min. Bearing	1.5 / 3	1.6 / 3.2	2.6 / 4.9	3.6 / 6.9	4.6 / 9	1.5 / 3	1.6 / 3.2	2.6 / 4.9	3.6 / 6.9	4.6 / 9
14	Simple	233	478	762	1061	1388	366	751	1198	1668	2182
	Multiple	231	373	585	815	1067	363	586	920	1281	1677
	Min. Bearing	1.5 / 3	1.5 / 3	2.4 / 4.6	3.3 / 6.4	4.3 / 8.3	1.5 / 3	1.5 / 3	2.4 / 4.6	3.3 / 6.4	4.3 / 8.3
15	Simple	188	387	663	923	1208	296	608	1041	1451	1893
	Multiple	200	324	508	709	928	315	509	799	1114	1455
	Min. Bearing	1.5 / 3	1.5 / 3	2.2 / 4.3	3.1 / 5.9	4 / 7.8	1.5 / 3	1.5 / 3	2.2 / 4.3	3.1 / 5.9	4 / 7.7
16	Simple	154	318	581	810	1060	242	499	913	1273	1651
	Multiple	175	284	446	622	814	276	446	700	977	1268
	Min. Bearing	1.5 / 3	1.5 / 3	2.1 / 4	2.9 / 5.6	3.8 / 7.3	1.5 / 3	1.5 / 3	2.1 / 4	2.9 / 5.6	3.7 / 7.2
17	Simple	127	263	514	716	937	200	414	807	1124	1451
	Multiple	155	250	394	549	719	243	393	619	862	1113
	Min. Bearing	1.5 / 3	1.5 / 3	2 / 3.8	2.7 / 5.2	3.6 / 6.8	1.5 / 3	1.5 / 3	2 / 3.8	2.7 / 5.2	3.5 / 6.7
18	Simple	106	221	437	637	834	167	347	686	994	1284
	Multiple	137	222	350	489	640	216	349	550	762	985
	Min. Bearing	1.5 / 3	1.5 / 3	1.8 / 3.6	2.6 / 5	3.4 / 6.5	1.5 / 3	1.5 / 3	1.8 / 3.6	2.6 / 4.9	3.3 / 6.3
19	Simple	89	186	370	571	748	140	293	581	886	1144
	Multiple	119	199	313	437	573	188	312	492	678	877
	Min. Bearing	1.5 / 3	1.5 / 3	1.6 / 3.4	2.4 / 4.7	3.2 / 6.1	1.5 / 3	1.5 / 3	1.6 / 3.4	2.4 / 4.6	3.1 / 6
20	Simple	76	159	316	514	673	119	249	496	793	1025
	Multiple	102	179	282	393	516	160	281	442	607	785
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.2	2.3 / 4.5	3 / 5.8	1.5 / 3	1.5 / 3	1.5 / 3.2	2.3 / 4.4	2.9 / 5.6

- Uniform PLF load values are limited by shear moment, total load deflection limited to $L/80$ and live load deflection limited to $L/240$.
- Live load equal to 0.75 of total load, for greater live/total applications (e.g. 50 psf snow or higher), analyze with BC CALC software.
- Span is measured center to center of the supports.
- 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 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.

3 1/2" and 5 1/2" Roof Load Tables – 125% Non-Snow

		24F-V4 Grade – 125% Load Duration In pounds per lineal foot (PLF)									
Span [ft]	Span Type	3 1/2"					5 1/2"				
		7 1/2"	9 1/2"	11 1/8"	14"	16"	7 1/2"	9 1/2"	11 1/8"	14"	16"
6	Simple	1817	2917	4555	5890	7406	2855	4583	7158	9256	11639
	Multiple	1399	2246	3315	4177	5104	2198	3530	5209	6564	8020
	Min. Bearing	2.4 / 4.6	3.9 / 7.4	6 / 11	7.8 / 13.8	9.8 / 16.9	2.4 / 4.6	3.9 / 7.4	6 / 11	7.8 / 13.8	9.8 / 16.9
7	Simple	1333	2141	3347	4626	5694	2095	3364	5260	7269	8948
	Multiple	1026	1648	2578	3361	4052	1612	2590	4051	5281	6368
	Min. Bearing	2.1 / 4	3.3 / 6.4	5.2 / 10	7.1 / 13	8.8 / 15.6	2.1 / 4	3.3 / 6.4	5.2 / 10	7.1 / 13	8.8 / 15.6
8	Simple	1019	1637	2560	3561	4624	1601	2573	4024	5596	7266
	Multiple	784	1260	1971	2742	3359	1232	1980	3098	4309	5279
	Min. Bearing	1.8 / 3.5	2.9 / 5.6	4.5 / 8.7	6.3 / 12.1	8.2 / 14.8	1.8 / 3.5	2.9 / 5.6	4.5 / 8.7	6.3 / 12.1	8.2 / 14.8
9	Simple	804	1292	2021	2811	3674	1263	2030	3176	4417	5773
	Multiple	618	994	1556	2164	2829	971	1562	2444	3401	4445
	Min. Bearing	1.6 / 3.1	2.6 / 5	4 / 7.7	5.6 / 10.8	7.3 / 14.1	1.6 / 3.1	2.6 / 5	4 / 7.7	5.6 / 10.8	7.3 / 14.1
10	Simple	650	1045	1635	2275	2973	1021	1642	2569	3575	4672
	Multiple	499	804	1258	1751	2289	785	1263	1977	2751	3596
	Min. Bearing	1.5 / 3	2.3 / 4.5	3.6 / 7	5 / 9.7	6.6 / 12.6	1.5 / 3	2.3 / 4.5	3.6 / 7	5 / 9.7	6.6 / 12.6
11	Simple	487	862	1350	1878	2455	765	1355	2121	2951	3857
	Multiple	412	663	1038	1445	1889	647	1041	1631	2270	2969
	Min. Bearing	1.5 / 3	2.1 / 4.1	3.3 / 6.3	4.6 / 8.8	6 / 11.5	1.5 / 3	2.1 / 4.1	3.3 / 6.3	4.6 / 8.8	6 / 11.5
12	Simple	373	723	1132	1576	2060	587	1136	1779	2477	3238
	Multiple	345	556	871	1212	1585	542	873	1368	1905	2491
	Min. Bearing	1.5 / 3	1.9 / 3.7	3 / 5.8	4.2 / 8.1	5.5 / 10.5	1.5 / 3	1.9 / 3.7	3 / 5.8	4.2 / 8.1	5.5 / 10.5
13	Simple	292	599	963	1341	1754	459	941	1514	2108	2756
	Multiple	293	472	740	1031	1349	460	742	1163	1620	2119
	Min. Bearing	1.5 / 3	1.7 / 3.4	2.8 / 5.4	3.9 / 7.4	5 / 9.7	1.5 / 3	1.7 / 3.4	2.8 / 5.4	3.9 / 7.4	5 / 9.7
14	Simple	233	478	829	1155	1510	366	751	1303	1815	2373
	Multiple	252	406	637	887	1161	396	638	1001	1394	1824
	Min. Bearing	1.5 / 3	1.5 / 3.2	2.6 / 5	3.6 / 6.9	4.7 / 9	1.5 / 3	1.5 / 3.2	2.6 / 5	3.6 / 6.9	4.7 / 9
15	Simple	188	387	721	1004	1314	296	608	1133	1578	2060
	Multiple	218	353	554	771	1010	343	554	870	1212	1583
	Min. Bearing	1.5 / 3	1.5 / 3	2.4 / 4.6	3.4 / 6.5	4.4 / 8.4	1.5 / 3	1.5 / 3	2.4 / 4.6	3.4 / 6.5	4.4 / 8.4
16	Simple	154	318	626	881	1153	242	499	983	1385	1796
	Multiple	191	309	485	677	886	300	486	763	1063	1380
	Min. Bearing	1.5 / 3	1.5 / 3	2.2 / 4.4	3.1 / 6.1	4.1 / 7.9	1.5 / 3	1.5 / 3	2.2 / 4.4	3.1 / 6.1	4.1 / 7.8
17	Simple	127	263	520	779	1020	200	414	817	1223	1579
	Multiple	169	273	429	598	783	265	429	674	938	1212
	Min. Bearing	1.5 / 3	1.5 / 3	2 / 4.1	3 / 5.7	3.9 / 7.4	1.5 / 3	1.5 / 3	2 / 4.1	3 / 5.7	3.8 / 7.3
18	Simple	106	221	437	694	908	167	347	686	1083	1398
	Multiple	142	242	381	532	697	223	381	599	830	1073
	Min. Bearing	1.5 / 3	1.5 / 3	1.8 / 3.9	2.8 / 5.4	3.6 / 7	1.5 / 3	1.5 / 3	1.8 / 3.9	2.8 / 5.3	3.6 / 6.9
19	Simple	89	186	370	610	814	140	293	581	959	1246
	Multiple	119	217	341	476	624	188	341	536	739	955
	Min. Bearing	1.5 / 3	1.5 / 3	1.6 / 3.7	2.6 / 5.1	3.5 / 6.7	1.5 / 3	1.5 / 3	1.6 / 3.7	2.6 / 5	3.4 / 6.5
20	Simple	76	159	316	522	733	119	249	496	820	1116
	Multiple	102	195	307	429	562	160	306	482	662	855
	Min. Bearing	1.5 / 3	1.5 / 3	1.5 / 3.5	2.3 / 4.8	3.3 / 6.3	1.5 / 3	1.5 / 3	1.5 / 3.5	2.3 / 4.8	3.2 / 6.1

- Uniform : PLF load values are limited by shear, moment, total load deflection limited to L/180 and live load deflection limited to L/240.
- Live load equal to 0.75 of total load, for greater live/total applications, analyze with BC CALC® software.
- Span is measured center to center of the supports.
- 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 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.

BOISE GLULAM® 24F-V4 IJC - 1.55E LSL Substitution Table

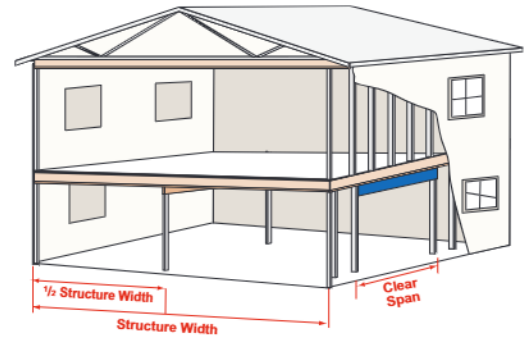
	3½ x 9½	3½ x 11⅞	3½ x 14	3½ x 16
1.55L LSL	Minimum Span: for BOISE GLULAM® 24F-V4 IJC to be Substituted			
3½ x 9½	7'-0" and greater	All Spans	All Spans	All Spans
3½ x 11⅞	—	8'-0" and greater	All Spans	All Spans
3½ x 14	—	—	9'-6" and greater	All Spans
3½ x 16	—	—	—	10'-6" and greater

- NOTES:
- Substitution table intended for preliminary design only. Product substitutions shall be approved by the project's design professional of record.
 - Table assumes that the original beam was sized properly. Loading should always be verified.
 - Substitution table valid for uniformly load applications only.
 - 1.55E LSL Design Values: $F_b = 2325$ psi, $MOE = 1,550,000$ psi, $F_v = 310$ psi

BOISE GLULAM® IJC Beam Size Table

How to Use This Table

1. Determine ROOF LOAD, FLOOR LOAD, and STRUCTURE WIDTH.
2. Locate CLEAR SPAN.
3. Select BOISE GLULAM® header depth.



Headers Supporting Floor and Roof

Minimum End Bearing Lengths:
 2 trimmer studs (3").
Bolded sizes require 3 trimmer studs (4⅞").

Loading	Structure Width	Clear Span				
		6'-0"	8'-0"	9'-3"	10'-0"	12'-0"
Floor: 40 psf Live +12 psf Dead Roof: 25 psf Snow (115%) + 15 psf Dead	24'-0"	3½ x 7½	3½ x 9½	3½ x 9½	3½ x 11⅞	3½ x 11⅞
	30'-0"	5½ x 7½	5½ x 7½	5½ x 9½	5½ x 9½	5½ x 11⅞
		3½ x 7½	3½ x 9½	3½ x 11⅞	3½ x 14"	3½ x 14"
	36'-0"	5½ x 7½	5½ x 9½	5½ x 9½	5½ x 9½	5½ x 11⅞
		3½ x 7½	3½ x 9½	3½ x 11⅞	3½ x 11⅞	3½ x 14"
	Floor: 40 psf Live +12 psf Dead Roof: +0 psf Snow (115%) + 15 psf Dead	24'-0"	3½ x 7½	3½ x 9½	3½ x 11⅞	3½ x 11⅞
30'-0"		5½ x 7½	5½ x 9½	5½ x 9½	5½ x 9½	5½ x 11⅞
		3½ x 7½	3½ x 9½	3½ x 11⅞	3½ x 11⅞	3½ x 14"
36'-0"		5½ x 7½	5½ x 9½	5½ x 9½	5½ x 11⅞	5½ x 11⅞
		3½ x 9½	3½ x 11⅞	3½ x 11⅞	3½ x 14"	3½ x 16"
5½ x 7½		5½ x 9½	5½ x 9½	5½ x 11⅞	5½ x 14"	

General Notes:

- Table is based on:
- Simple span with uniform loads only.
 - Roof truss framing with 24" soffits.
 - Deflection criteria of L/360 live load and L/240 total load.
 - Proper lateral support is provided at each support and continuously along the top of the beam.
 - Table valid for dry-use conditions only.
 - Wall weight of 30 plf is assumed.
 - No attic loads from trusses have been considered.
 - It may be possible to exceed the limitations of this table by analyzing a specific application with the BC CALC® software.

<p>G1 Beam Framing to Wall</p> <p>Strap per code if top plate is not continuous over beam</p> <p>BOISE GLULAM™</p>	<p>G2 Beam Bearing for Header</p> <p>Strap per code if top plate is not continuous over beam</p> <p>Trimmers to provide adequate bearing</p>	<p>G3 Beam to Wall with Lateral Support</p> <p>BC® Joist or engineered rimboard blocking for lateral support</p> <p>BOISE GLULAM™ column or studs, full width of beam</p>	
<p>G4 End Wall Bevel Plate</p> <p>Provide Adequate Lateral Support</p> <p>Beveled Plate</p>	<p>G5 Beam to Beam Connection</p> <p>Verify hanger capacity with manufacturer's specifications</p>	<p>G6 Beam to Concrete / Masonry Wall</p> <p>Minimum 1/2" air space between beam and concrete / masonry wall</p> <p>Moisture barrier at bearing</p>	<p>G7 Beam to Column Connection</p> <p>Drilling permitted for standard connections. Should be located in the lower section of the beam to avoid splitting</p> <p>BOISE GLULAM™ column or studs, full width of beam</p>
<p>G8 Beam Depth Change at Intermediate Support</p> <p>Solid post or multiple studs to provide adequate bearing under each beam</p>	<p>G9 Sloped Seat Cut</p> <p>Sloped seat cut. Not to exceed inside face of bearing.</p> <p>Provide adequate lateral support</p>	<p>G10 Bevel Cutting</p> <p>DO NOT bevel cut BOISE GLULAM® beyond inside face of wall without approval from Boise Cascade EWP Engineering or BC CALCS® software analysis.</p>	
<p>BOISE GLULAM® Beam Header</p>			
<p>Full Depth Header 2x4 Framing</p> <p>BOISE GLULAM™</p> <p>2x4 Framing</p>	<p>High Header 2x4 Framing</p> <p>BOISE GLULAM™</p> <p>2x4 Framing</p> <p>2x4 Nailers (Double nailer may be required)</p>	<p>High Header 2x6 Framing</p> <p>BOISE GLULAM™</p> <p>2x6 Framing</p> <p>2x6 Nailers (Double nailer may be required)</p>	
<p>Low Header 2x4 Framing</p> <p>BOISE GLULAM™</p> <p>2x4 Framing</p>	<p>Low Header 2x6 Framing</p> <p>BOISE GLULAM™</p> <p>2x6 Framing</p> <p>2x6 Framing at Opening</p>		



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