

BOOZERBEAM™

I-JOIST COMPATIBLE GLULAM BEAM

1.9E • 2600F_b

Our 1.9E BOOZERBEAM-IJC is a structural glulam beam that is made of Southern Yellow Pine lumber and waterproof adhesive. It is clearly stronger and stiffer than 1.7E TimberStrand, 1.8E LVL and 1.8E/24F glulam beams. Made of the finest southern yellow pine lumber and waterproof adhesive available. It can be seamlessly integrated into any engineered wood system. Substituted for LVL and PSL in I-joist systems, the 1.9E BOOZERBEAM is much more cost effective because it is both stronger and lower in cost.



- Stronger and stiffer than 1.7E TimberStrand (LSL), 1.8E LVL and 1.8E/24F glulam beams.
- Less expensive than LVL and PSL.
- Exceptional value in cost vs. performance.
- I-Joist compatible (IJC) depths for seamless substitution.
- Available in any length up to 52'.
- Individually wrapped or bundle wrapped with water resistant paper.
- LiquiSeal™ wax coating available.
- Made of the finest southern yellow pine lumber and waterproof adhesive available.
- Quality inspected by APA-The Engineered Wood Association.

**HANDCRAFTED WITH PRIDE
IN THE U.S.A.**



The **1.9E BOOZERBEAM-IJC** is available in widths of: 3 1/2" 5 1/4" 5 1/2" & 7"
and depths that are compatible with I-joists, conventional framing and traditional glulam.

Please contact your nearest **BOOZERBEAM** dealer for sizes available in your market.

BOOZERBEAM HOLDS UP!



2600Fb-1.9E-300Fv Southern Pine Glulam Roof Beams (Ibf/ft) – Snow Load

Load Duration Factor = 1.15, Fbx = 2,600 psi, Fvx = 300 psi, Ex = 1,900,000 psi

3-1/2-INCH WIDTH													SPAN (ft)					
Depth (in.)	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
8-3/8	1267	1000	808	667	551	432	344	278	228	189	158	133	113	97	83	72	62	
9-1/4	1546	1220	987	814	683	581	466	377	309	256	215	181	154	132	114	99	86	
9-1/2	1631	1287	1041	859	720	613	505	409	335	278	233	197	168	144	124	107	94	
9-3/4	1719	1356	1097	905	759	646	546	442	363	301	252	213	182	156	134	117	102	
11-1/4	2290	1807	1462	1206	1012	861	741	644	561	466	391	331	282	243	210	182	159	
11-7/8	2552	2014	1629	1345	1128	960	826	718	630	549	461	390	333	287	248	216	189	
12-5/8	2885	2277	1842	1521	1276	1086	935	813	713	630	556	471	402	346	299	261	228	
14	3549	2801	2267	1871	1570	1336	1151	1001	878	776	691	619	551	474	411	358	314	
15-3/8	4281	3380	2735	2258	1895	1613	1389	1208	1060	938	835	748	674	610	547	477	418	
16	4637	3661	2963	2446	2053	1747	1505	1309	1149	1016	905	811	730	661	601	539	473	
16-3/4	5083	4013	3248	2681	2251	1916	1650	1435	1260	1114	992	889	801	725	659	601	544	
18	5780	4635	3752	3098	2601	2213	1906	1659	1456	1288	1147	1028	926	838	760	692	633	
19-3/8	6521	5372	4348	3590	3014	2566	2210	1923	1688	1493	1330	1192	1072	968	878	800	732	
20-5/8	7260	5952	4928	4070	3417	2909	2506	2180	1914	1693	1508	1348	1212	1095	993	905	828	

5-1/2-INCH WIDTH													SPAN (ft)					
Depth (in.)	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
8-3/8	1991	1571	1270	1048	866	678	541	438	359	297	248	209	178	152	131	113	98	
9-1/4	2430	1917	1551	1279	1073	912	732	592	486	403	337	285	243	208	179	155	135	
9-1/2	2564	2023	1636	1350	1132	963	793	642	527	437	366	309	263	226	195	169	147	
9-3/4	2701	2131	1724	1422	1193	1014	858	695	570	473	397	335	286	245	211	183	160	
11-1/4	3598	2840	2297	1896	1590	1353	1164	1012	881	732	614	520	444	381	330	286	250	
11-7/8	4010	3165	2560	2113	1773	1508	1298	1129	990	863	725	614	524	450	389	339	296	
12-5/8	4533	3578	2895	2390	2005	1706	1469	1277	1120	990	873	740	632	543	470	409	358	
14	5577	4402	3562	2941	2468	2100	1808	1572	1380	1219	1082	967	866	745	646	563	493	
15-3/8	6728	5311	4298	3549	2978	2535	2183	1899	1662	1465	1301	1162	1044	943	855	750	657	
16	7287	5753	4656	3844	3226	2746	2365	2055	1797	1585	1407	1257	1129	1020	925	843	743	
16-3/4	7987	6306	5103	4214	3537	3010	2593	2248	1966	1734	1540	1376	1236	1116	1013	922	843	
18	9083	7284	5895	4868	4087	3478	2985	2588	2264	1997	1773	1585	1424	1286	1167	1063	972	
19-3/8	10248	8442	6833	5642	4737	4018	3448	2990	2616	2307	2049	1831	1646	1487	1349	1229	1124	
20-5/8	11409	9353	7744	6395	5355	4541	3897	3379	2957	2608	2316	2070	1861	1681	1526	1390	1272	

Notes:

- (1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
- (2) Span = simply supported beam.
- (3) Maximum deflection = L/180 under total load. Other deflection limits may apply.
- (4) Service condition = dry.
- (5) Tabulated values represent total loads and have taken the dead weight of the beam (assumed 36 pcf) into account.
- (6) Sufficient bearing length shall be provided at supports
- (7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.
- (8) Upper-right areas limited by deflection; medium areas limited by bending strength; lower-left areas limited by shear strength.



2600Fb-1.9E-300Fv Southern Pine Glulam Floor Beams (lb/ft)

Load Duration Factor = 1.0, F_{bx} = 2,600 psi, F_{vx} = 300 psi, E_x = 1,900,000 psi

3-1/2-INCH WIDTH		SPAN (ft)																				
Depth (in.)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
8-3/8	1101	596	342	212	140	96	68	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9-1/4	1344	804	462	288	190	131	93	68	51	---	---	---	---	---	---	---	---	---	---	---	---	---
9-1/2	1418	872	501	312	206	143	102	74	55	---	---	---	---	---	---	---	---	---	---	---	---	---
9-3/4	1493	943	542	338	224	155	110	81	60	---	---	---	---	---	---	---	---	---	---	---	---	---
11-1/4	1990	1270	836	523	347	241	173	127	96	73	57	---	---	---	---	---	---	---	---	---	---	---
11-7/8	2217	1415	980	616	409	284	204	151	114	87	68	53	---	---	---	---	---	---	---	---	---	---
12-5/8	2507	1601	1108	742	493	343	247	183	138	106	83	65	52	---	---	---	---	---	---	---	---	---
14	3084	1970	1364	999	675	471	340	252	191	148	116	92	74	59	---	---	---	---	---	---	---	---
15-3/8	3721	2377	1646	1206	897	626	453	337	256	199	156	125	100	81	66	55	---	---	---	---	---	---
16	4030	2574	1784	1307	997	707	511	381	290	225	177	142	114	93	76	63	52	---	---	---	---	---
16-3/4	4418	2822	1955	1433	1093	812	588	438	334	260	205	164	133	108	89	73	61	50	---	---	---	---
18	5024	3260	2259	1656	1264	995	732	546	417	325	257	206	167	137	113	93	78	65	55	---	---	---
19-3/8	5669	3779	2619	1920	1466	1155	916	684	523	408	323	259	211	173	143	119	100	84	71	60	51	---
20-5/8	6311	4283	2969	2176	1662	1309	1051	828	633	494	392	315	257	211	175	146	123	103	88	74	63	---

5-1/2-INCH WIDTH		SPAN (ft)																				
Depth (in.)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
8-3/8	1730	936	537	334	220	151	107	77	57	---	---	---	---	---	---	---	---	---	---	---	---	---
9-1/4	2111	1264	726	452	299	206	147	107	80	60	---	---	---	---	---	---	---	---	---	---	---	---
9-1/2	2228	1370	787	491	324	224	160	117	87	66	---	---	---	---	---	---	---	---	---	---	---	---
9-3/4	2347	1481	852	531	352	243	173	127	95	72	55	---	---	---	---	---	---	---	---	---	---	---
11-1/4	3127	1995	1313	821	545	378	272	200	151	115	89	70	55	---	---	---	---	---	---	---	---	---
11-7/8	3485	2224	1540	968	643	447	321	237	179	137	107	84	66	52	---	---	---	---	---	---	---	---
12-5/8	3940	2515	1741	1165	775	539	388	287	217	167	130	103	82	65	52	---	---	---	---	---	---	---
14	4847	3095	2143	1570	1061	740	534	396	301	233	182	145	116	93	76	61	---	---	---	---	---	---
15-3/8	5848	3735	2587	1895	1410	984	712	529	403	312	246	196	158	128	104	86	70	58	---	---	---	---
16	6334	4046	2803	2053	1560	1111	804	598	456	354	279	223	180	146	120	98	81	67	56	---	---	---
16-3/4	6942	4435	3073	2251	1707	1276	924	689	525	408	322	258	208	170	139	115	95	79	66	55	---	---
18	7895	5123	3550	2593	1966	1539	1151	859	656	510	404	324	262	215	177	147	122	102	86	72	60	---
19-3/8	8908	5938	4115	2995	2271	1778	1428	1075	822	641	508	408	331	272	225	187	157	132	111	94	79	---
20-5/8	9917	6731	4653	3385	2567	2011	1614	1300	995	777	616	496	403	332	275	229	193	163	138	117	100	---

Notes:

- (1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
- (2) Span = simply supported beam.
- (3) Maximum deflection = L/360 under live load, based on live/total load = 0.8. Where additional stiffness is desired or for other live/total load ratios, design for deflection must be modified per requirements.
- (4) Service condition = dry.
- (5) Tabulated values represent total loads based on live/total load = 0.8 and have taken the dead weight of the beam (assumed 36 pcf) into account.
- (6) Sufficient bearing length shall be provided at supports
- (7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.
- (8) Upper-right areas limited by deflection; medium areas limited by bending strength; lower-left areas limited by shear strength.



2600Fb-1.9E-210Fv Southern Pine Glulam Roof Beams (Ibf/ft) – Snow Load

Load Duration Factor = 1.15, Fbx = 2,600 psi, Fvx = 210 psi, Ex = 1,900,000 psi

3-1/2-INCH WIDTH													SPAN (ft)					
Depth (in.)	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
8-3/8	1267	1000	808	667	551	432	344	278	228	189	158	133	113	97	83	72	62	
9-1/4	1546	1220	987	814	683	581	466	377	309	256	215	181	154	132	114	99	86	
9-1/2	1631	1287	1041	859	720	613	505	409	335	278	233	197	168	144	124	107	94	
9-3/4	1715	1356	1097	905	759	646	546	442	363	301	252	213	182	156	134	117	102	
11-1/4	2060	1770	1462	1206	1012	861	741	644	561	466	391	331	282	243	210	182	159	
11-7/8	2212	1896	1629	1345	1128	960	826	718	630	549	461	390	333	287	248	216	189	
12-5/8	2402	2052	1791	1521	1276	1086	935	813	713	630	556	471	402	346	299	261	228	
14	2772	2354	2046	1808	1570	1336	1151	1001	878	776	691	619	551	474	411	358	314	
15-3/8	3173	2678	2316	2040	1823	1613	1389	1208	1060	938	835	748	674	610	547	477	418	
16	3367	2833	2445	2150	1918	1731	1505	1309	1149	1016	905	811	730	661	601	539	473	
16-3/4	3610	3026	2604	2285	2035	1835	1650	1435	1260	1114	992	889	801	725	659	601	544	
18	4041	3365	2882	2520	2238	2013	1828	1659	1456	1288	1147	1028	926	838	760	692	633	
19-3/8	4560	3767	3208	2793	2473	2218	2010	1838	1688	1493	1330	1192	1072	968	878	800	732	
20-5/8	5077	4161	3524	3056	2697	2413	2183	1992	1832	1693	1508	1348	1212	1095	993	905	828	

5-1/2-INCH WIDTH													SPAN (ft)					
Depth (in.)	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
8-3/8	1991	1571	1270	1048	866	678	541	438	359	297	248	209	178	152	131	113	98	
9-1/4	2430	1917	1551	1279	1073	912	732	592	486	403	337	285	243	208	179	155	135	
9-1/2	2564	2023	1636	1350	1132	963	793	642	527	437	366	309	263	226	195	169	147	
9-3/4	2695	2131	1724	1422	1193	1014	858	695	570	473	397	335	286	245	211	183	160	
11-1/4	3237	2781	2297	1896	1590	1353	1164	1012	881	732	614	520	444	381	330	286	250	
11-7/8	3477	2979	2560	2113	1773	1508	1298	1129	990	863	725	614	524	450	389	339	296	
12-5/8	3775	3225	2814	2390	2005	1706	1469	1277	1120	990	873	740	632	543	470	409	358	
14	4356	3700	3215	2842	2468	2100	1808	1572	1380	1219	1082	967	866	745	646	563	493	
15-3/8	4987	4209	3640	3206	2864	2535	2183	1899	1662	1465	1301	1162	1044	943	855	750	657	
16	5291	4452	3842	3378	3014	2720	2365	2055	1797	1585	1407	1257	1129	1020	925	843	743	
16-3/4	5673	4755	4092	3591	3198	2883	2593	2248	1966	1734	1540	1376	1236	1116	1013	922	843	
18	6351	5288	4529	3960	3517	3163	2873	2588	2264	1997	1773	1585	1424	1286	1167	1063	972	
19-3/8	7166	5919	5041	4389	3886	3485	3159	2888	2616	2307	2049	1831	1646	1487	1349	1229	1124	
20-5/8	7978	6538	5538	4802	4238	3791	3430	3131	2879	2608	2316	2070	1861	1681	1526	1390	1272	

Notes:

- (1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
- (2) Span = simply supported beam.
- (3) Maximum deflection = L/180 under total load. Other deflection limits may apply.
- (4) Service condition = dry.
- (5) Tabulated values represent total loads and have taken the dead weight of the beam (assumed 36 pcf) into account.
- (6) Sufficient bearing length shall be provided at supports
- (7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.
- (8) Upper-right areas limited by deflection; medium areas limited by bending strength; lower-left areas limited by shear strength.



2600Fb-1.9E-210Fv Southern Pine Glulam Floor Beams (lb/ft)

Load Duration Factor = 1.0, Fbx = 2,600 psi, Fvx = 210 psi, Ex = 1,900,000 psi

3-1/2-INCH WIDTH		SPAN (ft)															
Depth (in.)	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
8-3/8	1101	820	596	446	342	267	212	171	140	115	96	81	68	58	---	---	---
9-1/4	1344	1060	804	602	462	362	288	233	190	157	131	110	93	80	68	59	51
9-1/2	1418	1118	872	653	501	392	312	252	206	171	143	120	102	87	74	64	55
9-3/4	1490	1178	943	706	542	424	338	273	224	185	155	130	110	94	81	70	60
11-1/4	1790	1538	1270	1048	836	655	523	423	347	288	241	203	173	148	127	110	96
11-7/8	1922	1647	1415	1168	980	772	616	499	409	339	284	240	204	175	151	131	114
12-5/8	2087	1783	1556	1321	1108	929	742	601	493	409	343	290	247	212	183	159	138
14	2409	2046	1777	1571	1364	1160	999	822	675	561	471	398	340	292	252	219	191
15-3/8	2758	2327	2012	1772	1583	1401	1206	1049	897	746	626	530	453	389	337	293	256
16	2926	2462	2124	1868	1666	1503	1307	1136	997	842	707	599	511	440	381	331	290
16-3/4	3137	2629	2263	1985	1768	1593	1433	1246	1093	967	812	688	588	506	438	382	334
18	3512	2924	2504	2189	1944	1748	1588	1440	1264	1118	995	857	732	631	546	476	417
19-3/8	3963	3273	2787	2426	2148	1926	1746	1596	1466	1296	1155	1034	916	789	684	597	523
20-5/8	4412	3616	3062	2655	2343	2096	1896	1730	1591	1470	1309	1170	1051	949	828	722	633

5-1/2-INCH WIDTH		SPAN (ft)															
Depth (in.)	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
8-3/8	1730	1288	936	700	537	420	334	269	220	181	151	127	107	91	77	66	57
9-1/4	2111	1666	1264	946	726	568	452	365	299	247	206	173	147	125	107	92	80
9-1/2	2228	1757	1370	1026	787	616	491	397	324	268	224	189	160	136	117	101	87
9-3/4	2342	1851	1481	1110	852	667	531	429	352	291	243	205	173	148	127	109	95
11-1/4	2813	2416	1995	1646	1313	1030	821	665	545	452	378	319	272	232	200	173	151
11-7/8	3021	2588	2224	1835	1540	1213	968	784	643	533	447	377	321	275	237	206	179
12-5/8	3280	2802	2445	2076	1741	1460	1165	944	775	643	539	456	388	333	287	249	217
14	3785	3215	2793	2468	2143	1823	1570	1292	1061	881	740	626	534	459	396	344	301
15-3/8	4333	3657	3162	2785	2488	2201	1895	1648	1410	1172	984	833	712	612	529	461	403
16	4598	3869	3338	2935	2618	2363	2053	1784	1560	1322	1111	941	804	691	598	521	456
16-3/4	4930	4132	3555	3120	2778	2504	2251	1952	1707	1505	1276	1082	924	795	689	600	525
18	5519	4595	3935	3440	3055	2747	2495	2247	1966	1733	1539	1346	1151	991	859	748	656
19-3/8	6228	5144	4380	3813	3375	3027	2744	2508	2271	2003	1778	1589	1428	1240	1075	937	822
20-5/8	6933	5682	4812	4172	3681	3293	2979	2719	2500	2264	2011	1797	1614	1458	1300	1135	995

Notes:

- (1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
- (2) Span = simply supported beam.
- (3) Maximum deflection = L/360 under live load, based on live/total load = 0.8. Where additional stiffness is desired or for other live/total load ratios, design for deflection must be modified per requirements.
- (4) Service condition = dry.
- (5) Tabulated values represent total loads based on live/total load = 0.8 and have taken the dead weight of the beam (assumed 36 pcf) into account.
- (6) Sufficient bearing length shall be provided at supports
- (7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.
- (8) Upper-right areas limited by deflection; medium areas limited by bending strength; lower-left areas limited by shear strength.