

BOOZERBEAM™

I-JOIST COMPATIBLE GLULAM BEAM

1.8E • 2400F_b

Our 1.8E 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 1.8E 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 **1.8E 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!



2400Fb-1.8E-300Fv Southern Pine Glulam Roof Beams (lb/ft) – Construction Load

Load Duration Factor = 1.25, Fbx = 2,400 psi, Fvx = 300 psi, Ex = 1,800,000 psi

3-1/2-INCH WIDTH																					
Depth (in.)	SPAN (ft)																				
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
9-1/4	1552	990	685	441	292	203	146	108	81	62	---	---	---	---	---	---	---	---	---	---	---
9-1/2	1637	1045	723	478	317	220	158	117	88	68	52	---	---	---	---	---	---	---	---	---	---
11-1/4	2297	1467	1016	744	531	370	267	198	150	116	91	72	58	---	---	---	---	---	---	---	---
11-7/8	2560	1635	1132	829	626	436	315	234	178	138	108	86	69	56	---	---	---	---	---	---	---
14	3561	2274	1576	1154	881	694	521	389	297	231	182	146	118	96	79	66	54	---	---	---	---
16	4653	2973	2060	1510	1153	908	733	584	447	349	276	222	180	148	123	102	86	72	61	51	---
18	5891	3764	2609	1913	1461	1151	929	762	635	500	398	320	261	215	179	150	126	107	91	77	66

5-7/16-INCH WIDTH																					
Depth (in.)	SPAN (ft)																				
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
9-1/4	2411	1538	1064	684	454	315	227	167	126	96	75	58	---	---	---	---	---	---	---	---	---
9-1/2	2543	1623	1123	742	493	342	246	182	137	105	81	64	50	---	---	---	---	---	---	---	---
11-1/4	3569	2279	1578	1155	825	575	415	308	234	180	141	112	90	72	58	---	---	---	---	---	---
11-7/8	3977	2540	1759	1288	972	678	490	364	277	214	168	134	107	87	71	58	---	---	---	---	---
14	5532	3533	2448	1793	1369	1074	810	604	461	358	283	227	183	150	123	102	85	70	59	---	---
16	7228	4618	3200	2346	1784	1397	1121	908	694	541	429	345	280	230	190	159	133	112	94	80	68
18	9151	5848	4054	2963	2247	1760	1413	1158	965	777	618	498	406	334	278	232	196	166	141	120	103

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; lower-left areas limited by bending strength.



2400Fb-1.8E-300Fv Southern Pine Glulam Roof Beams (lb/ft) – Snow Load

Load Duration Factor = 1.15, Fbx = 2,400 psi, Fvx = 300 psi, Ex = 1,800,000 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	
9-1/4	1427	910	630	441	292	203	146	108	81	62	---	---	---	---	---	---	---	---	---	---	---	---
9-1/2	1505	960	664	478	317	220	158	117	88	68	52	---	---	---	---	---	---	---	---	---	---	---
11-1/4	2113	1349	934	683	521	370	267	198	150	116	91	72	58	---	---	---	---	---	---	---	---	---
11-7/8	2355	1503	1041	762	581	436	315	234	178	138	108	86	69	56	---	---	---	---	---	---	---	---
14	3275	2091	1449	1061	810	637	514	389	297	231	182	146	118	96	79	66	54	---	---	---	---	---
16	4279	2734	1894	1388	1059	834	673	554	447	349	276	222	180	148	123	102	86	72	61	51	---	---
18	5418	3462	2399	1759	1343	1058	854	700	583	493	398	320	261	215	179	150	126	107	91	77	66	---

5-7/16-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	
9-1/4	2217	1414	978	684	454	315	227	167	126	96	75	58	---	---	---	---	---	---	---	---	---	---
9-1/2	2339	1492	1032	742	493	342	246	182	137	105	81	64	50	---	---	---	---	---	---	---	---	---
11-1/4	3282	2095	1450	1061	809	575	415	308	234	180	141	112	90	72	58	---	---	---	---	---	---	---
11-7/8	3658	2335	1617	1184	902	678	490	364	277	214	168	134	107	87	71	58	---	---	---	---	---	---
14	5088	3249	2251	1648	1258	987	791	604	461	358	283	227	183	150	123	102	85	70	59	---	---	---
16	6648	4247	2943	2156	1640	1283	1030	843	694	541	429	345	280	230	190	159	133	112	94	80	68	---
18	8417	5378	3727	2724	2066	1617	1298	1064	886	748	618	498	406	334	278	232	196	166	141	120	103	---

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; lower-left areas limited by bending strength.



2400Fb-1.8E-300Fv Southern Pine Glulam Floor Beams (lb/ft)

Load Duration Factor = 1.0, Fbx = 2,400 psi, Fvx = 300 psi, Ex = 1,800,000 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
9-1/4	1240	761	437	272	180	124	88	64	---	---	---	---	---	---	---	---	---	---	---	---	---
9-1/2	1308	825	474	295	195	135	96	70	52	---	---	---	---	---	---	---	---	---	---	---	---
11-1/4	1836	1171	791	495	328	228	163	120	90	69	53	---	---	---	---	---	---	---	---	---	---
11-7/8	2046	1306	904	583	387	269	193	143	107	82	64	---	---	---	---	---	---	---	---	---	---
14	2846	1817	1258	921	639	445	321	238	181	140	109	87	69	56	---	---	---	---	---	---	---
16	3719	2375	1645	1205	919	669	484	360	274	213	167	133	108	87	71	59	---	---	---	---	---
18	4709	3008	2084	1527	1166	918	693	517	394	307	243	194	157	129	106	88	73	61	51	---	---

5-7/16-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
9-1/4	1926	1183	679	423	279	192	137	100	74	55	---	---	---	---	---	---	---	---	---	---	---
9-1/2	2032	1282	737	459	303	209	149	109	81	61	---	---	---	---	---	---	---	---	---	---	---
11-1/4	2852	1820	1229	768	510	353	254	187	140	107	83	64	50	---	---	---	---	---	---	---	---
11-7/8	3179	2029	1404	906	601	418	300	221	167	128	99	78	61	---	---	---	---	---	---	---	---
14	4422	2823	1955	1431	993	692	499	370	281	217	170	134	107	86	70	57	---	---	---	---	---
16	5778	3690	2556	1872	1423	1039	752	559	426	330	260	207	167	136	111	91	75	62	51	---	---
18	7316	4674	3238	2365	1793	1403	1077	803	613	477	377	302	244	200	164	136	113	94	79	66	55

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; lower-left areas limited by bending strength.