BOOZERBEAM™

STRUCTURAL GLULAM COLUMN

1.9E • 2300Fc

- Stronger and more dimensionally stable than solid sawn posts.
- Lower cost than PSL.
- Exceptional value in cost vs. performance.
- Made from the finest dense southern yellow pine lumber.
- Available in architectural appearance grade for visually exposed applications. Absolutely beautiful!
- LiquiSeal™ wax coating available.
- Available in any length up to 52’.
- Quality inspected by APA-The Engineered Wood Assocation.

HANDCRAFTED WITH PRIDE IN THE U.S.A.

NORTH AMERICAN WHOLESALE LUMBER ASSOCIATION

APA

BOOZERBEAM 1.9E Structural Glulam Columns are available in the following widths:

3 1/8” 3 1/2” 5 1/8” 6 3/4” 7”

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

BOOZERBEAM HOLDS UP!

Boozer Laminated Beam Co., Inc. • Anniston, AL • 256-237-2875 • boozerbeam.com

Allowable Axial Loads (Pounds) for Combination No. 50 Glulam Column

Side loads are not permitted. End loads are limited to a maximum eccentricity of either 1/6 column width or depth, whichever is worse.

Effective Column Length (ft)	Lamination Net Width = 3-1/2 in.														
	Net Depth = 3-1/2 in. (3 lams)			Net Depth = 4-1/4 in. (4 lams)			Net Depth = 5-1/2 in. (4 lams)			Net Depth = 7 in. (6 lams)			Net Depth = 8-1/4 in. (6 lams)		
	Load Duration Factor			Load Duration Factor			Load Duration Factor			Load Duration Factor			Load Duration Factor		
	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25
4	11,970	13,420	14,330	17,180	19,220	20,510	23,320	25,890	27,460	29,700	32,950	34,950	35,010	38,830	41,200
5	10,840	11,950	12,620	15,450	16,960	17,850	20,340	22,080	23,100	25,890	28,100	29,400	30,520	33,120	34,650
6	9,560	10,330	10,770	13,300	14,150	14,640	17,210	18,310	18,950	21,900	23,300	24,110	25,810	27,470	28,420
7	8,240	8,760	9,060	11,110	11,680	12,000	14,380	15,110	15,530	18,300	19,230	19,770	21,570	22,670	23,300
8	7,050	7,410	7,610	9,320	9,710	9,940	12,060	12,570	12,860	15,350	16,000	16,370	18,090	18,860	19,300
9	6,040	6,300	6,450	7,880	8,170	8,340	10,200	10,570	10,790	12,980	13,460	13,730	15,300	15,860	16,180
10	5,210	5,400	5,520	6,730	6,950	7,080	8,710	8,990	9,160	11,090	11,450	11,650	13,070	13,490	13,730
11	4,520	4,670	4,760	5,810	5,980	6,070	7,520	7,730	7,860	9,570	9,840	10,000	11,270	11,600	11,790
12	3,960	4,080	4,150	5,050	5,190	5,260	6,540	6,710	6,810	8,330	8,540	8,670	9,810	10,070	10,220
13	3,490	3,590	3,640	4,440	4,540	4,600	5,740	5,880	5,960	7,310	7,480	7,580	8,610	8,820	8,930
14	3,100	3,170	3,220	3,920	4,010	4,060	5,080	5,190	5,250	6,460	6,600	6,680	7,610	7,780	7,880

Notes:

1. The tabulated allowable loads apply only to one-piece glulam members made with all N1D14 laminations (Combination 50) without special tension laminations.
2. Applicable service conditions = dry
3. The tabulated allowable loads are based on simply axially loaded columns subjected to a maximum eccentricity of either 1/6 column width or 1/6 column depth, whichever is worse.
   For side loads, other eccentric end loads, or other combined axial and flexural loads, see 2015 NDS
4. The column is assumed to be unbraced, except at the column ends, and the effective column length is equal to the actual column length.
5. Design properties for normal load duration and dry-use service conditions:
   Compression parallel to grain (F_c) = 2,300 psi for 4 or more lams, or 1,700 psi for 2 or 3 lams.
   Modulus of elasticity (E) = 1.9 x 10^6 psi
   Flexural stress when loaded parallel to wide faces of lamination (F_{bv}) = 2,300 psi for 4 or more lams, or 2,100 psi for 3 lams.
   Flexural stress when loaded perpendicular to wide faces of lamination (F_{bx}) = 2,100 psi for 2 lams to 15 in. deep without special tension laminations.
   Volume factor for F_{bx} is in accordance with 2015 NDS. Size factor for F_{by} is $(12/d)^{1/9}$, where d is equal to the lamination width in inches.

Allowable Axial Loads (Pounds) for Combination No. 50 Glulam Column

Side loads are not permitted. End loads are limited to a maximum eccentricity of either 1/6 column width or depth, whichever is worse.

Effective Column Length (ft)	Lamination Net Width = 5-1/2 in.											
	Net Depth = 5-1/2 in. (4 lams)			Net Depth = 7 in. (6 lams)			Net Depth = 8-1/4 in. (6 lams)			Net Depth = 9-5/8 in. (7 lams)		
	Load Duration Factor			Load Duration Factor			Load Duration Factor			Load Duration Factor		
	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25
4	37,760	42,840	46,150	49,420	56,300	60,810	58,990	67,330	72,820	69,400	79,320	85,860
5	35,880	40,390	43,280	47,710	54,040	58,140	57,350	65,140	70,210	67,790	76,940	82,420
6	33,680	37,530	39,950	45,610	51,260	54,840	54,950	61,180	65,070	64,110	71,370	75,910
7	31,220	34,370	36,300	43,100	47,380	49,960	50,800	55,840	58,880	59,260	65,140	68,690
8	28,570	31,050	32,520	39,290	42,590	44,520	46,310	50,190	52,470	54,030	58,560	61,220
9	25,870	27,780	28,900	35,400	37,880	39,320	41,720	44,650	46,340	48,680	52,090	54,060
10	23,270	24,750	25,610	31,680	33,560	34,650	37,330	39,560	40,840	43,560	46,150	47,640
11	20,890	22,060	22,740	28,290	29,760	30,600	33,340	35,070	36,070	38,900	40,920	42,080
12	18,770	19,710	20,250	25,300	26,470	27,140	29,820	31,190	31,990	34,790	36,390	37,320
13	16,910	17,680	18,120	22,690	23,640	24,180	26,750	27,860	28,500	31,200	32,500	33,250
14	15,280	15,910	16,280	20,430	21,210	21,660	24,080	25,000	25,520	28,090	29,160	29,780
15	13,860	14,390	14,690	18,470	19,110	19,490	21,760	22,530	22,970	25,390	26,280	26,790
16	12,610	13,060	13,320	16,760	17,300	17,610	19,750	20,390	20,760	23,040	23,790	24,220
17	11,520	11,900	12,120	15,260	15,730	15,990	17,990	18,530	18,850	20,990	21,620	21,990
18	10,550	10,880	11,070	13,950	14,350	14,580	16,440	16,910	17,180	19,190	19,730	20,040
19	9,700	9,980	10,150	12,800	13,140	13,340	15,090	15,490	15,720	17,600	18,070	18,340
20	8,940	9,190	9,330	11,780	12,080	12,250	13,880	14,230	14,430	16,200	16,600	16,840
21	8,270	8,490	8,610	10,870	11,130	11,280	12,820	13,120	13,300	14,950	15,310	15,510
22	7,670	7,860	7,970	10,070	10,290	10,420	11,860	12,130	12,290	13,840	14,150	14,330

Notes:

1. The tabulated allowable loads apply only to one-piece glulam members made with all N1D14 laminations (Combination 50) without special tension laminations.
2. Applicable service conditions = dry
3. The tabulated allowable loads are based on simply axially loaded columns subjected to a maximum eccentricity of either 1/6 column width or 1/6 column depth, whichever is worse.
   For side loads, other eccentric end loads, or other combined axial and flexural loads, see 2015 NDS
4. The column is assumed to be unbraced, except at the column ends, and the effective column length is equal to the actual column length.
5. Design properties for normal load duration and dry-use service conditions:
   Compression parallel to grain (F_c) = 2,300 psi for 4 or more lams, or 1,700 psi for 2 or 3 lams.
   Modulus of elasticity (E) = 1.9 x 10^6 psi
   Flexural stress when loaded parallel to wide faces of lamination (F_{by}) = 2,300 psi for 4 or more lams, or 2,100 psi for 3 lams.
   Flexural stress when loaded perpendicular to wide faces of lamination (F_{bx}) = 2,100 psi for 2 lams to 15 in. deep without special tension laminations.
   Volume factor for F_{bx} is in accordance with 2015 NDS. Size factor for F_{by} is $(12/d)^{1/9}$, where d is equal to the lamination width in inches.

Allowable Axial Loads (Pounds) for Combination No. 50 Glulam Column

Side loads are not permitted. End loads are limited to a maximum eccentricity of either 1/6 column width or depth, whichever is worse.

Effective Column Length (ft)	Lamination Net Width = 7 in.								
	Net Depth = 7 in. (6 lams)			Net Depth = 8-1/4 in. (6 lams)			Net Depth = 9-5/8 in. (7 lams)		
	Load Duration Factor			Load Duration Factor			Load Duration Factor		
	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25
8	53,460	59,380	63,060	66,190	74,000	78,900	78,960	87,620	92,980
9	50,270	55,300	58,360	62,940	69,730	73,540	74,100	81,400	85,800
10	46,900	51,070	53,550	59,110	64,220	67,230	68,960	74,930	78,440
11	43,460	46,860	48,850	54,600	58,700	61,090	63,700	68,490	71,270
12	40,070	42,840	44,450	50,160	53,450	55,360	58,510	62,360	64,580
13	36,840	39,110	40,430	45,940	48,620	50,170	53,600	56,730	58,530
14	33,840	35,730	36,830	42,060	44,270	45,540	49,070	51,650	53,130
15	31,110	32,700	33,620	38,540	40,380	41,440	44,960	47,110	48,350
16	28,630	29,990	30,770	35,370	36,930	37,820	41,270	43,080	44,130
17	26,410	27,570	28,240	32,530	33,860	34,620	37,950	39,500	40,400
18	24,400	25,400	25,980	29,990	31,130	31,790	34,990	36,320	37,090
19	22,600	23,470	23,970	27,710	28,700	29,270	32,330	33,490	34,150
20	20,980	21,740	22,180	25,670	26,530	27,030	29,950	30,960	31,540
21	19,510	20,180	20,570	23,840	24,590	25,030	27,810	28,690	29,200
22	18,190	18,780	19,120	22,180	22,850	23,230	25,880	26,660	27,100
23	16,990	17,510	17,820	20,690	21,280	21,620	24,130	24,830	25,220
24	15,900	16,370	16,640	19,330	19,860	20,160	22,560	23,170	23,520
25	14,910	15,330	15,570	18,100	18,580	18,850	21,120	21,670	21,990
26	14,000	14,380	14,600	16,990	17,410	17,650	19,820	20,310	20,590
27	13,170	13,520	13,710	15,970	16,350	16,570	18,630	19,070	19,330
28	12,410	12,720	12,900	15,030	15,380	15,580	17,540	17,940	18,170
29	11,720	12,000	12,160	14,180	14,490	14,670	16,540	16,910	17,110

Notes:

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