BOOZERBEAM™

STRUCTURAL GLULAM COLUMN

1.9E • 2300F$_c$

- 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 the American Institute of Timber Construction (AITC).

HANDCRAFTED WITH PRIDE IN THE U.S.A.

American Institute of Timber Construction

North American Wholesale Lumber Association

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

Boozer Laminated Beam Company

Glued Laminated Timber Columns with Eccentric End Loads*

Combination 50 SP (N1M14)**

Duration of Load = 1.00
Dry Conditions of Use

Width (in)	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	--	--	--	--	Width (in)
Depth (in)	3 1/2	4 1/8	5 1/2	6 7/8	8 1/4	--	--	--	--	Depth (in)
Length (ft)	**Column Capacity (lb)**									Length (ft)
4	11880	14550	23010	28760	34520	--	--	--	--	4
5	10710	13310	19950	24940	29920	--	--	--	--	5
6	9390	11630	16790	20980	25180	--	--	--	--	6
7	8060	9940	13990	17480	20980	--	--	--	--	7
8	6870	8430	11700	14630	17560	--	--	--	--	8
9	5870	7180	9890	12360	14830	--	--	--	--	9
10	5050	6160	8440	10550	12660	--	--	--	--	10
11	4380	5330	7270	9090	10910	--	--	--	--	11
12	3830	4650	6330	7910	9490	--	--	--	--	12
13	3380	4090	5550	6940	8330	--	--	--	--	13
14	2990	3620	4900	6130	7360	--	--	--	--	14
15	--	--	--	--	--	--	--	--	--	15
16	--	--	--	--	--	--	--	--	--	16
17	--	--	--	--	--	--	--	--	--	17
18	--	--	--	--	--	--	--	--	--	18
19	--	--	--	--	--	--	--	--	--	19
20	--	--	--	--	--	--	--	--	--	20
21	--	--	--	--	--	--	--	--	--	21
22	--	--	--	--	--	--	--	--	--	22
23	--	--	--	--	--	--	--	--	--	23
24	--	--	--	--	--	--	--	--	--	24
25	--	--	--	--	--	--	--	--	--	25
26	--	--	--	--	--	--	--	--	--	26
27	--	--	--	--	--	--	--	--	--	27
28	--	--	--	--	--	--	--	--	--	28
29	--	--	--	--	--	--	--	--	--	29
30	--	--	--	--	--	--	--	--	--	30

Table Specifications: The tabulated capacities are for glued laminated timber columns of constant cross section under dry conditions of use.

Capacities have been rounded to nearest 10 lb.

Columns are limited to a maximum effective length/least dimension (l_e/d) of 50.

End Conditions: Capacities are based on column ends being supported to prevent translation.

The effective buckling length factor used is K_e = 1.00.

*** Eccentricity:** End loads are limited to a maximum eccentricity of 1/6 of either cross sectional dimension.

**** Design Properties:**

E (psi)	F_c (psi)		F_{by} (psi)			F_{bx} (psi)	
	4 or More Lams	2 or 3 Lams	4 or More Lams	3 Lams	2 Lams	2 Lams to 15 Inches Deep without 302 Tension	4 or More Lams with 302 Tension Lam
1,900,000	2300	1700	2300	2100	1750	2100	2400

302 tension laminations are not required to develop the capacities shown in this table.

While these capacity tables have been prepared in accordance with recognized engineering principles and are based on the most accurate and reliable technical data available, these tables should not be used or relied upon for any general or specific application without competent professional examination and verification of their accuracy, suitability, and applicability by a licensed design professional.

Boozer Laminated Beam Company

Glued Laminated Timber Columns with Eccentric End Loads*

Combination 50 SP (N1M14)**

Duration of Load = 1.15
Dry Conditions of Use

Width (in)	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	--	--	--	--	Width (in)
Depth (in)	3 1/2	4 1/8	5 1/2	6 7/8	8 1/4	--	--	--	--	Depth (in)
Length (ft)	**Column Capacity (lb)**									Length (ft)
4	13300	16370	25490	31860	38230	--	--	--	--	4
5	11780	14620	21610	27010	32410	--	--	--	--	5
6	10120	12520	17840	22290	26750	--	--	--	--	6
7	8550	10520	14680	18350	22020	--	--	--	--	7
8	7210	8830	12190	15240	18290	--	--	--	--	8
9	6120	7470	10240	12800	15370	--	--	--	--	9
10	5240	6370	8710	10880	13060	--	--	--	--	10
11	4530	5490	7480	9350	11220	--	--	--	--	11
12	3950	4780	6490	8110	9740	--	--	--	--	12
13	3470	4190	5680	7100	8520	--	--	--	--	13
14	3070	3700	5010	6260	7520	--	--	--	--	14
15	--	--	--	--	--	--	--	--	--	15
16	--	--	--	--	--	--	--	--	--	16
17	--	--	--	--	--	--	--	--	--	17
18	--	--	--	--	--	--	--	--	--	18
19	--	--	--	--	--	--	--	--	--	19
20	--	--	--	--	--	--	--	--	--	20
21	--	--	--	--	--	--	--	--	--	21
22	--	--	--	--	--	--	--	--	--	22
23	--	--	--	--	--	--	--	--	--	23
24	--	--	--	--	--	--	--	--	--	24
25	--	--	--	--	--	--	--	--	--	25
26	--	--	--	--	--	--	--	--	--	26
27	--	--	--	--	--	--	--	--	--	27
28	--	--	--	--	--	--	--	--	--	28
29	--	--	--	--	--	--	--	--	--	29
30	--	--	--	--	--	--	--	--	--	30

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**** Design Properties:**

E (psi)	F_c (psi)		F_{by} (psi)			F_{bx} (psi)	
	4 or More Lams	2 or 3 Lams	4 or More Lams	3 Lams	2 Lams	2 Lams to 15 Inches Deep without 302 Tension	4 or More Lams with 302 Tension Lam
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Glued Laminated Timber Columns with Eccentric End Loads*

Combination 50 SP (N1M14)**

Duration of Load = 1.15
Dry Conditions of Use

Width (in)	5 1/2	5 1/2	5 1/2	5 1/2	--	--	--	--	--	Width (in)
Depth (in)	5 1/2	6 7/8	8 1/4	9 5/8	--	--	--	--	--	Depth (in)
Length (ft)	**Column Capacity (lb)**									Length (ft)
4	42620	55030	67180	79170	--	--	--	--	--	4
5	40080	52670	64900	76150	--	--	--	--	--	5
6	37120	49770	60360	70420	--	--	--	--	--	6
7	33870	45740	54890	64030	--	--	--	--	--	7
8	30480	40960	49160	57350	--	--	--	--	--	8
9	27180	36320	43590	50850	--	--	--	--	--	9
10	24150	32110	38530	44950	--	--	--	--	--	10
11	21490	28420	34110	39790	--	--	--	--	--	11
12	19170	25250	30300	35350	--	--	--	--	--	12
13	17170	22530	27040	31540	--	--	--	--	--	13
14	15450	20200	24240	28280	--	--	--	--	--	14
15	13950	18190	21830	25470	--	--	--	--	--	15
16	12650	16460	19750	23040	--	--	--	--	--	16
17	11520	14950	17940	20930	--	--	--	--	--	17
18	10530	13640	16370	19100	--	--	--	--	--	18
19	9660	12490	14980	17480	--	--	--	--	--	19
20	8890	11470	13770	16060	--	--	--	--	--	20
21	8200	10570	12690	14800	--	--	--	--	--	21
22	7590	9770	11730	13680	--	--	--	--	--	22
23	--	--	--	--	--	--	--	--	--	23
24	--	--	--	--	--	--	--	--	--	24
25	--	--	--	--	--	--	--	--	--	25
26	--	--	--	--	--	--	--	--	--	26
27	--	--	--	--	--	--	--	--	--	27
28	--	--	--	--	--	--	--	--	--	28
29	--	--	--	--	--	--	--	--	--	29
30	--	--	--	--	--	--	--	--	--	30

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**** Design Properties:**

E (psi)	F_c (psi)		F_{by} (psi)			F_{bx} (psi)	
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Dry Conditions of Use

Width (in)	5 1/2	5 1/2	5 1/2	5 1/2	--	--	--	--	--	Width (in)
Depth (in)	5 1/2	6 7/8	8 1/4	9 5/8	--	--	--	--	--	Depth (in)
Length (ft)	Column Capacity (lb)									Length (ft)
4	37590	48330	58870	69290	--	--	--	--	--	4
5	35640	46550	57170	67610	--	--	--	--	--	5
6	33360	44360	54290	63330	--	--	--	--	--	6
7	30820	41690	50020	58360	--	--	--	--	--	7
8	28100	37870	45440	53020	--	--	--	--	--	8
9	25360	34000	40800	47610	--	--	--	--	--	9
10	22750	30350	36420	42480	--	--	--	--	--	10
11	20380	27050	32460	37870	--	--	--	--	--	11
12	18280	24160	28990	33820	--	--	--	--	--	12
13	16450	21650	25970	30300	--	--	--	--	--	13
14	14850	19470	23370	27260	--	--	--	--	--	14
15	13450	17590	21100	24620	--	--	--	--	--	15
16	12230	15950	19140	22330	--	--	--	--	--	16
17	11160	14520	17430	20330	--	--	--	--	--	17
18	10220	13270	15920	18580	--	--	--	--	--	18
19	9390	12170	14600	17030	--	--	--	--	--	19
20	8650	11190	13430	15670	--	--	--	--	--	20
21	8000	10330	12390	14460	--	--	--	--	--	21
22	7410	9560	11470	13390	--	--	--	--	--	22
23	--	--	--	--	--	--	--	--	--	23
24	--	--	--	--	--	--	--	--	--	24
25	--	--	--	--	--	--	--	--	--	25
26	--	--	--	--	--	--	--	--	--	26
27	--	--	--	--	--	--	--	--	--	27
28	--	--	--	--	--	--	--	--	--	28
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