

# Boozer Laminated Beam Company

## Glued Laminated Timber Columns with Eccentric End Loads\*

Combination 48 SP (N2D14)\*\*

Duration of Load = 1.15  
Dry Conditions of Use

Width (in)	5 1/2	5 1/2	5 1/2	5 1/2	0	0	0	0	0	0	Width (in)
Depth (in)	5 1/2	6 7/8	8 1/4	9 5/8	0	0	0	0	0	0	Depth (in)
Length (ft)	Column Capacity (lb)										Length (ft)
4	35940	46530	56890	67120	--	--	--	--	--	--	4
5	33720	44460	54900	65150	--	--	--	--	--	--	5
6	31190	41950	52360	62540	--	--	--	--	--	--	6
7	28450	39000	49190	57450	--	--	--	--	--	--	7
8	25630	35690	43910	51230	--	--	--	--	--	--	8
9	22920	32280	38840	45310	--	--	--	--	--	--	9
10	20440	28580	34290	40010	--	--	--	--	--	--	10
11	18260	25280	30340	35400	--	--	--	--	--	--	11
12	16350	22460	26950	31450	--	--	--	--	--	--	12
13	14690	20050	24060	28060	--	--	--	--	--	--	13
14	13260	17980	21570	25170	--	--	--	--	--	--	14
15	12010	16200	19430	22670	--	--	--	--	--	--	15
16	10920	14650	17580	20520	--	--	--	--	--	--	16
17	9960	13320	15980	18640	--	--	--	--	--	--	17
18	9120	12150	14580	17010	--	--	--	--	--	--	18
19	8380	11120	13350	15570	--	--	--	--	--	--	19
20	7720	10220	12270	14310	--	--	--	--	--	--	20
21	7140	9420	11310	13190	--	--	--	--	--	--	21
22	6620	8710	10450	12200	--	--	--	--	--	--	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 ( $l/d$ ) 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 <sub>c</sub> (psi)		F <sub>by</sub> (psi)			F <sub>bx</sub> (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 Lam	4 or more Lams with 302 Tension Lam
1,700,000	2200	1350	2000	1800	1500	1600	1900

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.

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