

Boozer Laminated Beam Company

Glued Laminated Timber Columns with Eccentric End Loads*

Combination 48 SP (N2D14)**

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	0	0	0	0	Width (in)
Depth (in)	3 1/2	4 1/8	5 1/2	6 7/8	8 1/4	0	0	0	0	Depth (in)
Length (ft)	Column Capacity (lb)									Length (ft)
4	9470	11540	19610	25200	30700	--	--	--	--	4
5	8650	10750	17880	22350	26820	--	--	--	--	5
6	7700	9760	14970	18710	22460	--	--	--	--	6
7	6720	8630	12450	15560	18680	--	--	--	--	7
8	5800	7390	10410	13020	15620	--	--	--	--	8
9	5000	6320	8800	11000	13200	--	--	--	--	9
10	4330	5440	7510	9390	11270	--	--	--	--	10
11	3770	4710	6480	8100	9720	--	--	--	--	11
12	3310	4120	5640	7050	8450	--	--	--	--	12
13	2920	3620	4940	6180	7420	--	--	--	--	13
14	2600	3210	4370	5470	6560	--	--	--	--	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/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 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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