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)	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	10630	13030	22050	28430	34450	--	--	--	--	4
5	9560	11970	19330	24160	28990	--	--	--	--	5
6	8370	10680	15890	19860	23830	--	--	--	--	6
7	7170	9180	13060	16330	19600	--	--	--	--	7
8	6110	7760	10850	13560	16270	--	--	--	--	8
9	5230	6580	9120	11400	13680	--	--	--	--	9
10	4500	5630	7750	9690	11630	--	--	--	--	10
11	3910	4860	6660	8330	10000	--	--	--	--	11
12	3420	4230	5780	7230	8670	--	--	--	--	12
13	3010	3720	5060	6330	7590	--	--	--	--	13
14	2670	3290	4470	5590	6700	--	--	--	--	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
1,700,000	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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