

1½" 1.5E Engineered Framing Lumber (EFL) Assembled Column Capacities (lbs)

Column Length (ft)	(2) 1.5"x3.5"			(2) 1.5"x5.5"			(2) 1.5"x7.25"		
	100%	115%	125%	100%	115%	125%	100%	115%	125%
6	4440	4440	4440	6980	6980	6980	9205	9205	9205
7	3715	3815	3875	5835	6000	6090	7695	7910	8030
8	2980	3050	3085	4685	4795	4850	6180	6320	6395
9	2435	2480	2505	3825	3900	3940	5045	5140	5195
10	2020	2050	2070	3175	3225	3250	4185	4250	4290
11	1695	1720	1730	2665	2700	2720	3515	3565	3590
12	1440	1455	1465	2265	2290	2305	2985	3020	3040
14	--	--	--	--	--	--	--	--	--

Column Length (ft)	(3) 1.5"x3.5"			(3) 1.5"x5.5"			(3) 1.5"x7.25"		
	100%	115%	125%	100%	115%	125%	100%	115%	125%
6	6665	6665	6665	10475	10475	10475	13805	13805	13805
7	6660	6660	6660	10465	10465	10465	13795	13795	13795
8	6655	6655	6655	10460	10460	10460	13785	13785	13785
9	6610	6650	6650	10450	10450	10450	13775	13775	13775
10	5575	5715	5800	9435	9720	9880	12435	12815	13025
11	4755	4865	4925	8095	8305	8425	10670	10950	11105
12	4095	4180	4230	7000	7160	7250	9230	9440	9560
14	3120	3175	3210	5350	5450	5500	7055	7185	7255
16	--	--	--	4195	4255	4290	5530	5610	5655
18	--	--	--	3355	3395	3415	4420	4475	4505
20	--	--	--	--	--	--	--	--	--

Column Length (ft)	(4) 1.5"x3.5"			(4) 1.5"x5.5"			(4) 1.5"x7.25"		
	100%	115%	125%	100%	115%	125%	100%	115%	125%
6	8885	8885	8885	13965	13965	13965	18410	18410	18410
7	8880	8880	8880	13955	13955	13955	18395	18395	18395
8	8875	8875	8875	13945	13945	13945	18385	18385	18385
9	8815	8865	8865	13935	13935	13935	18370	18370	18370
10	7430	7625	7735	13925	13925	13925	18360	18360	18360
11	6340	6485	6570	13915	13915	13915	18345	18345	18345
12	5460	5575	5645	13905	13905	13905	18335	18335	18335
14	4160	4235	4280	13795	13890	13890	15300	15735	15975
16	--	--	--	11120	11410	11580	12255	12540	12695
18	--	--	--	9115	9330	9450	9980	10170	10275
20	--	--	--	7590	7745	7835	8245	8375	8450
22	--	--	--	6395	6515	6585	6890	6990	7040
24	--	--	--	--	--	--	5820	5890	5930

Notes:

1. Table applies to two to four member columns used in dry conditions where in-service moisture content does not exceed 16 percent.
2. Loads have been adjusted for worst case eccentric loading of 1/6 of the column thickness or width.
3. Load capacities based on 2024 NDS for Wood Construction. Column self weight has been deducted from the axial capacities shown.
4. Columns are considered to be unbraced except at column ends. The effective column length in both directions is equal to the actual column length ($K_e = 1.0$ in both directions).
5. This chart is not valid for columns exposed to wind load in addition to axial loads shown (i.e. this chart may not be used to size columns in exterior walls).
6. Compression perpendicular to grain stress of 425 psi is assumed.
7. No further increases to the axial capacity may be made to the values shown. Load duration increases have already been taken into account for the respective capacities. Member depths shown may be ripped from deeper members.
8. Column length is defined as the length of the actual wood column itself, and does not include any pedestals or caps.
9. To size a column for a length not shown, use capacities for the next larger length shown. Do not interpolate.
10. This chart based on F_b 2250 & F_c 2350 psi. See following page for fastening recommendations.
11. EFL is composed of LVL (laminated veneer lumber).



1½" 1.5E Engineered Framing Lumber (EFL) Assembled Column Capacities (lbs) continued

Multiple-Piece Member Fastening Recommendations (0.128" x 3" nails)

2-Ply All depths

Two rows 9" o.c. staggered. Offset the rows half the required spacing. Nail from one side.
Edge distance for 3.5" width = 1". Edge distance for 5.5" width = 1.5". Edge distance for 7.25" width = 2.5".

3-Ply 3.5" depth

Two rows 8" o.c. staggered. Offset the rows half the required spacing. Nail from both sides.

5.5" & 7.25" depths

Three rows 8" o.c. staggered. Offset the rows half the required spacing. Nail from both sides.

4-Ply 3.5" depth

Nail each ply in turn with two rows 9" o.c. staggered. Each additional ply nailing must be offset 3" from the previous ply.

5.5" & 7.25" depths

Nail each ply in turn with three rows 9" o.c. staggered. Each additional ply nailing must be offset 3" from the previous ply.

Alternate 4-ply 5.5" & 7.25" depths fastening: attach together with two rows 1/2" diameter bolts & washers 8" oc, 1.5" from edges.

General fastening notes (all depths and plies)

1. End distance for nails to be 2". End distance for bolts to be 4".
2. Nail rows for three & four ply members to be 1" from edges of 2x4 & 2x6 depths and 1.5" from edges of 2x8.



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