Rosboro

COLUMNS

- Treated Glulam Column
- 1.9E Laminated Column
- Architectural Glulam Column

Glulam: The Builder's Choice

Glued laminated timber, or glulam, combines the structural values and product consistency of engineered wood, with the ease-of-use qualities of traditional lumber. It's light, easy to work with and delivered with consistent quality.

Builders prefer glulam for its strength and stiffness, and resistance to weather-related problems. Made from "dry" lumber, glulam columns have a typical moisture content of 16% or less at the time of fabrication. This makes for an exceptionally stable product, which resists warping, twisting, shrinking, swelling or splitting like solid sawn and composite/resin columns.

And suppliers appreciate the product because of its dependability in the yard. Manufactured in long lengths, it can be cut to specified lengths for the builder.

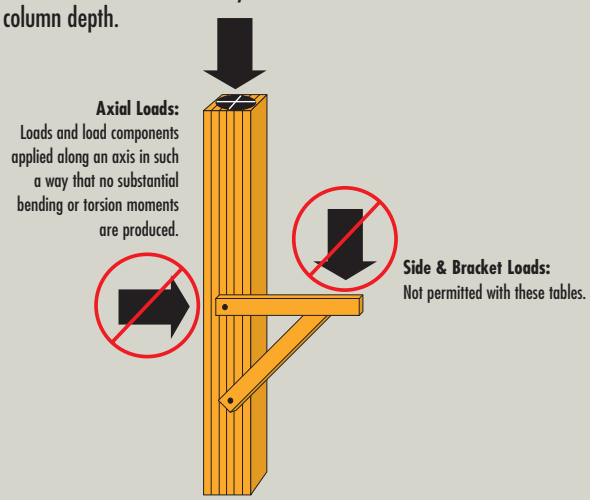
Rosboro Glulam Columns

Combining the strength and durability of their glulam beam products, Rosboro now offers builders those same features in three glulam columns - the Treated Glulam Column, the 1.9E Laminated Column, and the Architectural Glulam Column.

Rosboro Glulam Columns are cost-effective and easy to store, handle and install, and can be specified for almost any project requirement. Rosboro maintains a large on-ground inventory of the entire line of columns, offering quick delivery.

Rosboro's family of glulam columns offer the perfect solution in even the most demanding structural applications for exposed exterior, exposed interior (architectural), or concealed column placements.

Figure 1. **Axial Loads**



Rosboro Glulam Columns are easy to nail, bolt and cut, and eliminate the need for fabricating "built-up" columns. They are also dimensionally stable, which can save the builder time and money during construction and also by cutting down on callbacks.

We offer a complete line of columns to fit almost any application you have, from Treated Columns for decks and outside use to Architectural columns for exposed interior locations. Check out our products and see if you shouldn't use a Rosboro Glulam Column on your next project.

Rosboro Treated Glulam Column – Less hassle, better performance

Made from Southern pine, Rosboro Treated Glulam Columns are pretreated with Permapost K-520, which is recommended for ground contact applications. K-520 is an oil-soluble copper naphthenate preservative that provides an ideal fungicide and insecticide for the long-term preservation of glulam columns in both ground contact and above ground uses.

Rosboro Treated Glulam Columns are lightweight and conveniently load-wrapped. Designed to match standard framing widths and available in lengths of up to 48 feet, Rosboro treated glulam columns are manufactured in the following sizes:

Lengths: 48'
Widths: 3 3/8", 5 1/4" and 7"
Depths: 3 1/2", 5 1/2" and 7"

Rosboro 1.9E Laminated Column – Strength over beauty

Rosboro 1.9E Laminated Columns, which fall under the *Framing Appearance* classification, are intended for applications that demand a straight, tall column that will be hidden from view. With many projects calling for tall walls, such as expansive entryways, or seamless floor to ceiling interiors, Rosboro 1.9E Laminated Columns are the perfect choice. The 1.9E column is available in long lengths and matches standard framing widths.

Our laminated columns are load-wrapped and are available in the following sizes:

Lengths: 48' – 60'
Widths: 3 3/8", 5 7/16" and 7 1/8"
Depths: 4 1/2", 6" and 7 1/2"

Rosboro Architectural Glulam Column – Manufactured for appearance

From our stock glulam line of products, Rosboro Architectural Glulam Columns are perfect for load-bearing applications where the member is exposed and appearance is important.

Our Architectural Glulam Columns remain straight and true in cross-section and maintain reliable fastener-holding capacities. They are also manufactured to match standard architectural beam sizes.

Rosboro Architectural Glulam Columns are available individually wrapped in the following sizes:

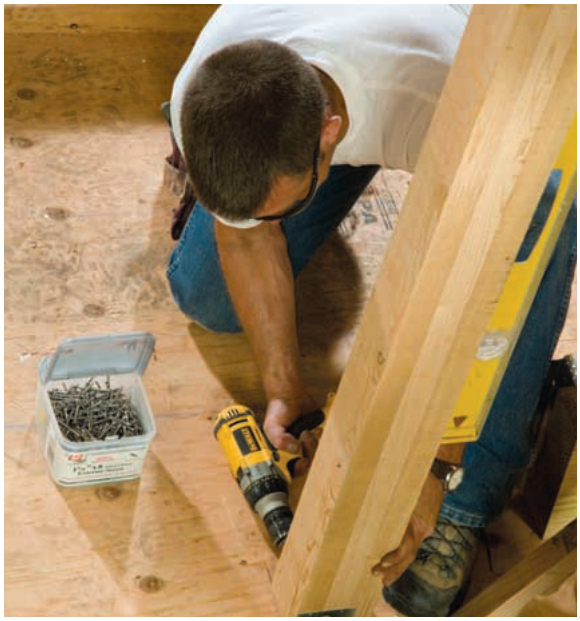
Lengths: 48' – 60'
Widths: 3 1/8", 5 1/8" and 6 3/4"
Depths: 4 1/2", 5 1/8", 6" and 7 1/2"

Code Recognized

All Rosboro glulam columns are approved by the ICC Evaluation Service under Evaluation Report ESR-1940. They have been inspected and certified by the APA EWS in conformance with the American National Standard (ANSI) A190.1-2002.

Sustainable Practices

As a timberland owner for more than a half century, Rosboro's entire operation shares a commitment to forest management and understands that laminated timber is a much more efficient use of the natural resources – for today and tomorrow.



Rosboro Laminated Columns: Design Values

Layup Combination	Flexural Stress		Compression Parallel to Grain F_c (psi)	Modulus of Elasticity E (10^6 psi)
	F_{by} (psi)	F_{bx} (psi)		
1.9E, Architectural EWS 3 DF	2100 [1]	2000 [2]	2300 [3]	1.9
Treated EWS 49 SP	1950 [4]	1800 [5]	2100 [6]	1.7

Notes for Laminated Columns Design Values:

1. Applicable to 4 or more lams. This value shall be reduced to 1,850 psi for 3 lams and 1,550 psi for 2 lams.
2. Applicable to column depths up to 15" without tension lam. For column depths exceeding 15" without tension lams, F_{bx} = 1,750 psi. When tension lams are used, F_{bx} = 2,350 psi for 4 lams or deeper.
3. Applicable to 4 or more lams. This value shall be reduced to 1,850 psi for 2 or 3 lams.
4. Applicable to 4 or more lams. This value shall be reduced to 1,750 psi for 3 lams and 1,500 psi for 2 lams.
5. Applicable to column depths up to 15" without tension lam. For column depths exceeding 15" without tension lams, F_{bx} = 1,575 psi. When tension lams are used, Fbx = 2,125 psi for 4 lams or deeper.
6. Applicable to 4 or more lams. This value shall be reduced to 1,450 psi for 2 or 3 lams.

Rosboro Glulam Columns: Allowable Column Loads

Effective Column Length (ft.)	Lamination Net Width = 3 1/8"						Lamination Net Width = 5 1/8"					
	Net Depth = 4 1/2" (3 lams)			Net Depth = 6" (4 lams)			Net Depth = 5 1/8" (4 lams)			Net Depth = 6" (4 lams)		
	Load Duration Factor			Load Duration Factor			Load Duration Factor			Load Duration Factor		
	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25
8	6,856	7,138	7,301	9,506	9,864	10,070	22,572	24,329	25,360	28,038	30,139	31,362
9	5,787	5,994	6,112	7,980	8,241	8,391	20,158	21,490	22,266	24,922	26,489	27,396
10	4,937	5,092	5,181	6,779	6,976	7,089	17,942	18,973	19,572	22,082	23,279	23,971
11	4,253	4,373	4,442	5,822	5,974	6,061	15,983	16,797	17,270	19,590	20,527	21,068
12	3,699	3,793	3,847	5,050	5,169	5,238	14,278	14,933	15,312	17,436	18,185	18,617
13	3,243	3,319	3,362	4,419	4,515	4,569	12,803	13,338	13,647	15,585	16,193	16,543
14	–	–	–	–	–	–	11,528	11,969	12,224	13,993	14,493	14,781
15	–	–	–	–	–	–	10,422	10,791	11,003	12,620	13,036	13,275
16	–	–	–	–	–	–	9,460	9,771	9,950	11,430	11,780	11,981
17	–	–	–	–	–	–	8,620	8,884	9,037	10,395	10,692	10,863
18	–	–	–	–	–	–	7,882	8,110	8,240	9,490	9,744	9,890
19	–	–	–	–	–	–	7,233	7,430	7,542	8,695	8,914	9,040
20	–	–	–	–	–	–	6,659	6,830	6,928	7,994	8,184	8,293
21	–	–	–	–	–	–	6,149	6,298	6,384	7,372	7,539	7,634

Effective Column Length (ft.)	Laminated Net Width = 6 3/4"		
	Net Depth = 7 1/2" (5 lams)		
	Load Duration Factor		
	1.00	1.15	1.25
8	54,483	60,557	64,325
9	51,285	56,422	59,403
10	47,768	51,658	53,938
11	43,846	46,952	48,756
12	40,080	42,580	44,027
13	36,584	38,625	39,806
14	33,408	35,098	36,075
15	30,556	31,972	32,791
16	28,007	29,207	29,899
17	25,733	26,758	27,349
18	23,704	24,587	25,095
19	21,890	22,656	23,096
20	20,266	20,934	21,318
21	18,808	19,395	19,731
22	17,496	18,013	18,310
23	16,311	16,770	17,033
24	15,240	15,648	15,882
25	14,267	14,633	14,842
26	13,383	13,711	13,899
27	12,576	12,872	13,041
28	11,839	12,106	12,259

Notes:

1. The tabulated allowable loads apply only to one-piece glulam members made with all L2D laminations (Combination 3) without special tension laminations.
2. Applicable service conditions = dry.
3. The tabulated allowable loads are based on simply axially loaded columns subjected to a maximum eccentricity of either 1/6 column width or 1/6 column depth, whichever is worse. For side loads, other eccentric end loads, or other combined axial and flexural loads, see 2005 NDS.
4. The column is assumed to be unbraced, except at the column ends, and the effective column length is equal to the actual column length.
5. Design properties for normal load duration and dry-use service conditions: Compression parallel to grain (F_c) = 2,300 psi for 4 or more lams, or 1,850 psi for 2 or 3 lams. Modulus of elasticity (E) = 1.9 x 10^6 psi. Flexural stress when loaded parallel to wide faces of lamination (F_{by}) = 2,100 psi for 4 or more lams, or 1,850 psi for 3 lams. Flexural stress when loaded perpendicular to wide faces of lamination (F_{bx}) = 2,000 psi for 2 lams to 15" deep without special tension laminations. Volume factor for F_{bx} is in accordance with 2005 NDS. Size factor for F_{by} is $(12/d)^{1/9}$, where d is equal to the lamination width in inches.

Allowable Axial Loads (Pounds) for Combination No. 3 Glulam Columns

Side loads are not permitted. End loads are limited to a maximum eccentricity of either 1/6 column width or depth, whichever is worse.

Effective Column Length (ft.)	Lamination Net Width = 3 3/8"						Lamination Net Width = 5 7/16"								
	Net Depth = 4 1/2" (3 lams)			Net Depth = 6" (4 lams)			Net Depth = 4 1/2" (3 lams)			Net Depth = 6" (4 lams)			Net Depth = 7 1/2" (5 lams)		
	Load Duration Factor			Load Duration Factor			Load Duration Factor			Load Duration Factor			Load Duration Factor		
	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25
8	8,225	8,599	8,815	11,456	11,929	12,201	18,099	19,387	20,132	30,897	33,638	35,262	39,143	42,342	44,218
9	6,990	7,263	7,421	9,672	10,018	10,218	15,994	16,944	17,492	28,057	30,055	31,174	35,156	37,569	38,968
10	5,992	6,198	6,317	8,252	8,514	8,664	14,103	14,824	15,240	25,118	26,596	27,450	31,397	33,244	34,313
11	5,183	5,342	5,434	7,112	7,315	7,430	12,462	13,024	13,348	22,413	23,570	24,239	28,016	29,463	30,299
12	4,521	4,647	4,719	6,187	6,346	6,437	11,056	11,503	11,761	20,038	20,964	21,498	25,048	26,204	26,872
13	3,975	4,076	4,133	5,426	5,554	5,627	9,856	10,218	10,426	17,975	18,727	19,160	22,468	23,408	23,951
14	3,519	3,602	3,649	4,796	4,900	4,959	8,829	9,125	9,296	16,185	16,805	17,162	20,232	21,007	21,453
15	–	–	–	–	–	–	7,946	8,193	8,334	14,633	15,149	15,447	18,291	18,937	19,308
16	–	–	–	–	–	–	7,185	7,392	7,510	13,281	13,716	13,966	16,601	17,145	17,458
17	–	–	–	–	–	–	6,524	6,700	6,800	12,100	12,470	12,682	15,125	15,588	15,853
18	–	–	–	–	–	–	5,948	6,098	6,184	11,064	11,381	11,563	13,830	14,227	14,454
19	–	–	–	–	–	–	–	–	–	10,152	10,425	10,582	12,689	13,032	13,228
20	–	–	–	–	–	–	–	–	–	9,344	9,582	9,719	11,681	11,978	12,148
21	–	–	–	–	–	–	–	–	–	8,628	8,836	8,955	10,784	11,045	11,193
22	–	–	–	–	–	–	–	–	–	7,988	8,171	8,276	9,986	10,214	10,345

Allowable Axial Loads (Pounds) for Combination No. 3 Glulam Columns

Side loads are not permitted. End loads are limited to a maximum eccentricity of either 1/6 column width or depth, whichever is worse.

Effective Column Length (ft.)	Lamination Net Width = 7 1/8"								
	Net Depth = 4 1/2" (3 lams)			Net Depth = 6" (4 lams)			Net Depth = 7 1/2" (5 lams)		
	Load Duration Factor			Load Duration Factor			Load Duration Factor		
	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25
8	23,716	25,404	26,380	41,427	45,368	47,739	57,864	64,427	68,524
9	20,957	22,202	22,920	37,999	41,123	42,964	54,643	60,280	63,719
10	18,480	19,425	19,969	34,580	37,037	38,471	51,203	55,915	58,726
11	16,330	17,066	17,490	31,335	33,288	34,425	47,636	51,505	53,777
12	14,488	15,074	15,411	28,366	29,944	30,861	44,073	47,239	49,086
13	12,914	13,389	13,661	25,707	27,001	27,751	40,643	43,254	44,773
14	11,568	11,958	12,181	23,347	24,422	25,045	37,434	39,612	40,877
15	10,412	10,735	10,921	21,263	22,165	22,687	34,487	36,319	37,312
16	9,414	9,686	9,841	19,422	20,187	20,628	31,806	33,263	34,104
17	8,549	8,779	8,910	17,793	18,447	18,824	29,297	30,542	31,260
18	7,794	7,991	8,103	16,350	16,913	17,237	27,044	28,117	28,736
19	–	–	–	15,067	15,555	15,835	25,021	25,953	26,489
20	–	–	–	13,923	14,349	14,593	23,202	24,016	24,484
21	–	–	–	12,900	13,274	13,488	21,564	22,279	22,690
22	–	–	–	11,982	12,312	12,500	20,085	20,717	21,080
23	–	–	–	11,156	11,448	11,616	18,748	19,308	19,630
24	–	–	–	10,411	10,671	10,820	17,534	18,034	18,321
25	–	–	–	9,736	9,969	10,101	16,432	16,879	17,135
26	–	–	–	–	–	–	15,427	15,829	16,059
27	–	–	–	–	–	–	14,509	14,871	15,078
28	–	–	–	–	–	–	13,668	13,996	14,184

Notes:

1. The tabulated allowable loads apply only to one-piece glulam members made with all L2D laminations (Combination 3) without special tension laminations.
2. Applicable service conditions = dry.
3. The tabulated allowable loads are based on simply axially loaded columns subjected to a maximum eccentricity of either 1/6 column width or 1/6 column depth, whichever is worse. For side loads, other eccentric end loads, or other combined axial and flexural loads, see 2005 NDS.
4. The column is assumed to be unbraced, except at the column ends, and the effective column length is equal to the actual column length.
5. Design properties for normal load duration and dry-use service conditions: Compression parallel to grain (F_c) = 2,300 psi for 4 or more lams, or 1,850 psi for 2 or 3 lams. Modulus of elasticity (E) = 1.9 x 10^6 psi. Flexural stress when loaded parallel to wide faces of lamination (F_{by}) = 2,100 psi for 4 or more lams, or 1,850 psi for 3 lams. Flexural stress when loaded perpendicular to wide faces of lamination (F_{bx}) = 2,000 psi for 2 lams to 15" deep without special tension laminations. Volume factor for F_{bx} is in accordance with 2005 NDS. Size factor for F_{by} is $(12/d)^{1/9}$, where d is equal to the lamination width in inches.

Columns-Dry: Allowable Axial Loads (Pounds) for Combination No. 49 Southern Pine Glulam Columns

Side loads are not permitted. End loads are limited to a maximum eccentricity of either 1/6 column width or depth, whichever is worse.

Effective Column Length (ft.)	LAMINATION NET WIDTH = 3 3/8"						LAMINATION NET WIDTH = 5 1/4"						LAMINATION NET WIDTH = 7"		
	Net Depth = 3 1/2" (3 lams)			Net Depth = 5 1/2" (4 lams)			Net Depth = 5 1/2" (4 lams)			Net Depth = 7" (6 lams)			Net Depth = 7" (6 lams)		
	Load Duration Factor			Load Duration Factor			Load Duration Factor			Load Duration Factor			Load Duration Factor		
	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25
8	5,716	5,998	6,159	9,496	9,880	10,101	23,353	25,260	26,381	31,191	33,568	34,952	46,702	51,791	54,942
9	4,886	5,091	5,208	8,007	8,288	8,449	20,979	22,432	23,279	27,777	29,550	30,575	43,787	48,081	50,680
10	4,205	4,353	4,435	6,825	7,037	7,158	18,758	19,884	20,539	24,644	25,996	26,778	40,737	44,272	46,369
11	3,639	3,750	3,813	5,877	6,041	6,135	16,767	17,658	18,174	21,880	22,938	23,549	37,647	40,523	42,207
12	3,173	3,260	3,310	5,109	5,238	5,311	15,019	15,736	16,150	19,487	20,331	20,818	34,634	36,980	38,347
13	2,788	2,858	2,898	4,478	4,582	4,641	13,497	14,081	14,419	17,426	18,111	18,506	31,795	33,728	34,853
14	2,468	2,524	2,557	3,956	4,040	4,088	12,173	12,656	12,935	15,651	16,215	16,539	29,181	30,793	31,730
15	–	–	–	–	–	–	11,021	11,425	11,657	14,119	14,588	14,858	26,807	28,167	28,956
16	–	–	–	–	–	–	10,016	10,356	10,538	12,791	13,186	13,412	24,666	25,823	26,494
17	–	–	–	–	–	–	9,136	9,405	9,556	11,635	11,970	12,162	22,741	23,734	24,309
18	–	–	–	–	–	–	8,347	8,573	8,702	10,624	10,910	11,075	21,012	21,870	22,367
19	–	–	–	–	–	–	7,649	7,843	7,955	9,735	9,983	10,124	19,457	20,204	20,636
20	–	–	–	–	–	–	7,033	7,202	7,298	8,951	9,166	9,289	18,058	18,712	19,089
21	–	–	–	–	–	–	6,487	6,634	6,719	8,256	8,444	8,551	16,796	17,372	17,703
22	–	–	–	–	–	–	–	–	–	–	–	–	15,655	16,165	16,457
23	–	–	–	–	–	–	–	–	–	–	–	–	14,622	15,075	15,335
24	–	–	–	–	–	–	–	–	–	–	–	–	13,685	14,088	14,320

Columns-Wet: Allowable Axial Loads (Pounds) for Combination No. 49 Southern Pine Glulam Columns

Side loads are not permitted. End loads are limited to a maximum eccentricity of either 1/6 column width or depth, whichever is worse.

Effective Column Length (ft.)	LAMINATION NET WIDTH = 3 3/8"						LAMINATION NET WIDTH = 5 1/4"						LAMINATION NET WIDTH = 7"		
	Net Depth = 3 1/2" (3 lams)			Net Depth = 5 1/2" (4 lams)			Net Depth = 5 1/2" (4 lams)			Net Depth = 7" (6 lams)			Net Depth = 7" (6 lams)		
	Load Duration Factor			Load Duration Factor			Load Duration Factor			Load Duration Factor			Load Duration Factor		
	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25	1.00	1.15	1.25
8	4,656	4,901	5,041	7,789	8,118	8,307	18,683	20,317	21,283	24,973	27,031	28,235	36,701	40,865	43,467
9	4,000	4,177	4,277	6,585	6,825	6,962	16,932	18,185	18,915	22,449	23,991	24,880	34,656	38,240	40,432
10	3,453	3,583	3,653	5,623	5,804	5,907	15,236	16,204	16,765	20,047	21,216	21,889	32,484	35,491	37,288
11	2,997	3,092	3,146	4,849	4,988	5,068	13,678	14,439	14,880	17,875	18,784	19,307	30,238	32,712	34,165
12	2,617	2,691	2,734	4,219	4,329	4,391	12,288	12,899	13,252	15,966	16,688	17,104	27,991	30,012	31,189
13	2,302	2,361	2,395	3,702	3,789	3,840	11,066	11,563	11,851	14,306	14,891	15,227	25,819	27,480	28,444
14	2,039	2,087	2,115	3,272	3,343	3,384	9,997	10,408	10,645	12,869	13,350	13,625	23,779	25,160	25,960
15	–	–	–	–	–	–	9,063	9,406	9,603	11,624	12,023	12,252	21,902	23,062	23,735
16	–	–	–	–	–	–	8,245	8,535	8,697	10,541	10,877	11,069	20,193	21,179	21,749
17	–	–	–	–	–	–	7,528	7,764	7,892	9,596	9,881	10,044	18,647	19,491	19,980
18	–	–	–	–	–	–	6,889	7,081	7,191	8,768	9,012	9,152	17,251	17,980	18,402
19	–	–	–	–	–	–	6,317	6,482	6,577	8,040	8,250	8,371	15,992	16,626	16,992
20	–	–	–	–	–	–	5,811	5,955	6,037	7,396	7,579	7,683	14,855	15,410	15,730
21	–	–	–	–	–	–	5,363	5,488	5,560	6,825	6,985	7,076	13,828	14,316	14,597
22	–	–	–	–	–	–	–	–	–	–	–	–	12,898	13,330	13,578
23	–	–	–	–	–	–	–	–	–	–	–	–	12,054	12,438	12,658
24	–	–	–	–	–	–	–	–	–	–	–	–	11,287	11,630	11,826

Notes for both Dry-Use and Wet-Use service conditions:

1. This table is for preliminary design use only. Final design should include a complete analysis, including bearing capacity of the foundation supporting the column.
2. The tabulated allowable loads apply only to one-piece glulam members made with all N1M16 Southern pine laminations (Combination 49) without special tension laminations.
3. The tabulated allowable loads are based on simply axially loaded columns subjected to a maximum eccentricity of either 1/6 column width or 1/6 column depth, whichever is worse. For side loads, other eccentric end loads, or other combined axial and flexural loads, see 2005 NDS.
4. The column is assumed to be unbraced, except at the column ends, and the effective column length is equal to the actual column length.
5. Volume factor for F_{bx} is in accordance with 2005 NDS. Size factor for F_{by} is $(12/d)^{1/9}$, where d is equal to the lamination width in inches.
6. Dry-Use compression parallel to grain (F_c) = 2,100 psi for 4 or more lams, or 1,450 psi for 2 or 3 lams. For Wet-Use, compression parallel to grain (F_c) = 2,100 x 0.73 psi for 4 or more lams, or 1,450 x 0.73 psi for 2 or 3 lams. Dry-Use modulus of elasticity (E) = 1.7 x 10^6 psi. Wet-Use Modulus of elasticity (E) = 1.7 x 0.833 x 10^6 psi.
   Dry-Use flexural stress when loaded parallel to wide faces of lamination (F_{by}) = 1,950 psi for 4 or more lams, or 1,750 psi for 3 lams. Wet-Use flexural stress when loaded parallel to wide faces of lamination (F_{by}) = 1,950 x 0.8 psi for 4 or more lams, or 1,750 x 0.8 psi for 3 lams.
   Dry-Use flexural stress when loaded perpendicular to wide faces of lamination (F_{bx}) =1,800 psi for 2 lams to 15" deep without special tension laminations. Wet-Use flexural stress when loaded perpendicular to wide faces of lamination (F_{bx}) = 1,800 x 0.8 psi for 2 lams to 15" deep without special tension laminations.

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