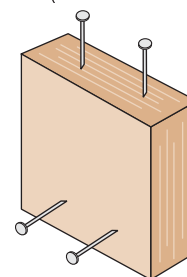


Closest Allowable Nail Spacing

VERSA-LAM® & VERSA-RIM® Products

Nail Size	VERSA-LAM® & VERSA-RIM® Products						Nailing Perpendicular to Glue Lines (Wide Face)	
	VERSA-LAM® 1.4 1800 Rimboard 1 5/16"		VERSA-LAM® 1 3/4"		VERSA-LAM® 3 1/2" & Wider		All Products	
	O.C. [inches]	End [inches]	O.C. [inches]	End [inches]	O.C. [inches]	End [inches]	O.C. [inches]	End [inches]
8d Box	3	1 1/2	2	1	2	1/2	2	1/2
8d Common	3	2	3	2	2	1	2	1
10d & 12d Box	3	2	3	2	2	1	2	1
16d Box	3	2	3	2	2	1	2	1
10d & 12d Common	4	3	4	3	2	2	2	2
16d Sinkers	4	3	4	3	2	2	2	2
16d Common	6	4	6	3	2	2	2	2

Nailing Parallel to Glue Lines (Narrow Face)



Nailing Perpendicular to Glue Lines (Wide Face)

Nailing Notes

- For 1 3/4" thickness and greater, 2 rows of nails (such as for a metal strap) are allowed (use 1/2" minimum offset between rows and stagger nails).

- Offset and stagger nail rows from floor sheathing and wall sole plate.
- Simpson Strong-Tie A35 and LPT4 connectors may be attached to the side VERSA-LAM®/VERSA-RIM®. Use nails as specified by Simpson Strong-Tie.

VERSA-LAM® Design Values

Grade	Width [in]	Depth [in]	Weight [lb/ft]	Allowable Shear [lb]	Allowable Moment [ft-lb]	Moment of Inertia [in ⁴]	Grade	Width [in]	Depth [in]	Weight [lb/ft]	Allowable Shear [lb]	Allowable Moment [ft-lb]	Moment of Inertia [in ⁴]
VERSA-STUD® 1.7 2650	1 1/2	3 1/2	1.5	998	776	5.4	VERSA-LAM® 2.0 3100	5 1/4	5 1/4	8.0	5237	6830	63.3
		5 1/2	2.4	1568	1821	20.8			5 1/2	8.4	5486	7457	72.8
		7 1/4	3.2	2066	3069	47.6			7 1/4	11.0	7232	12566	166.7
VERSA-LAM® 2.0 3100	1 3/4	3 1/2	1.8	1164	1058	6.3			9 1/4	14.1	9227	19908	346.3
		5 1/2	2.8	1829	2486	24.3			9 1/2	14.5	9476	20937	375.1
		7 1/4	3.7	2411	4189	55.6			11 1/4	17.1	11222	28814	622.9
		9 1/4	4.7	3076	6636	115.4			11 3/8	18.1	11845	31913	732.6
		9 1/2	4.8	3159	6979	125.0			14	21.3	13965	43552	1200.5
		11 1/4	5.7	3741	9605	207.6			16	24.4	15960	56046	1792.0
		11 3/8	6.0	3948	10638	244.2			18	27.4	17955	70011	2551.5
		14	7.1	4655	14517	400.2			20	30.4	19950	85428	3500.0
		16	8.1	5320	18682	597.3			24	36.5	23940	120549	6048.0
		18	9.1	5985	23337	850.5		7	9 1/4	16.6	12303	26544	461.7
		24	12.2	7980	40183	2016.0			9 1/2	17.1	12635	27916	500.1
VERSA-LAM® 2.0 3100	3 1/2	5 1/2	5.6	3658	4971	48.5			11 1/4	20.2	14963	38419	830.6
		7 1/4	7.4	4821	8377	111.1			11 3/8	21.4	15794	42550	976.8
		9 1/4	9.4	6151	13272	230.8			14	25.2	18620	58069	1600.7
		9 1/2	9.6	6318	13958	250.1			16	28.8	21280	74728	2389.3
		11 1/4	11.4	7481	19210	415.3			18	32.4	23940	93348	3402.0
		11 3/8	12.1	7897	21275	488.4			20	36.0	26600	113904	4666.7
		14	14.2	9310	29035	800.3			24	43.2	31920	160732	8064.0
		16	16.2	10640	37364	1194.7							
18	18.3	11970	46674	1701.0									
20	20.3	13300	56952	2333.3									

Design Property	Grade	Modulus of Elasticity	Bending	Horizontal Shear	Tension Parallel to Grain	Compression Parallel to Grain	Compression Perpendicular to Grain	Equivalent Specific Gravity for Fastener Design (SG)
		E(x 10 ⁶ psi) ⁽¹⁾	F _b (psi) ⁽²⁾⁽³⁾	F _v (psi) ⁽²⁾⁽⁴⁾	F _t (psi) ⁽²⁾⁽⁵⁾	F _c (psi) ⁽²⁾	F _{c⊥} (psi) ⁽¹⁾⁽⁶⁾	
VERSA-LAM® Beams	2.0 3100	2.0	3100	285	2150	3000	750	0.5
VERSA-LAM® Studs	1.7 2650	1.7	2650	285	1650	3000	750	0.5
VERSA-LAM® Columns	1.8 2750	1.8	2750	285	1825	3000	750	0.5

- This value cannot be adjusted for load duration.
- This value is based upon a load duration of 100% and may be adjusted for other load durations.
- Fiber stress bending value shall be multiplied by the depth factor, (12/d)^{1/3} where d = member depth [in].
- Stress applied perpendicular to the glue lines.
- Tension value shall be multiplied by a length factor, (4/L)^{1/8} where L = member length [ft]. Use L = 4 for members less than four feet long.
- Stress applied parallel to the glue lines.
 - * Design properties are limited to dry conditions of use where the maximum moisture content of the material will not exceed 16%.