

1½" VERSA-LAM® 1.7 2650 STAIR STRINGER GUIDE

for products manufactured in Alexandria [Lena], Louisana

Laminated Veneer Lumber Stair Stringers

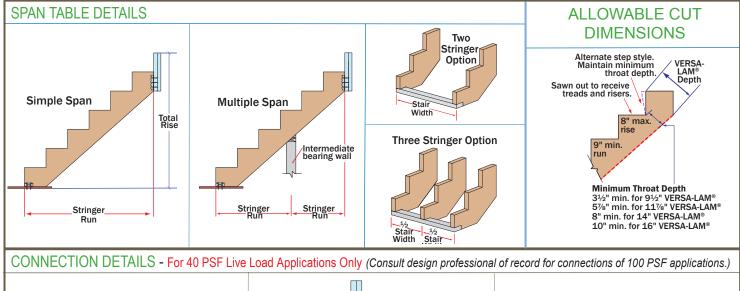


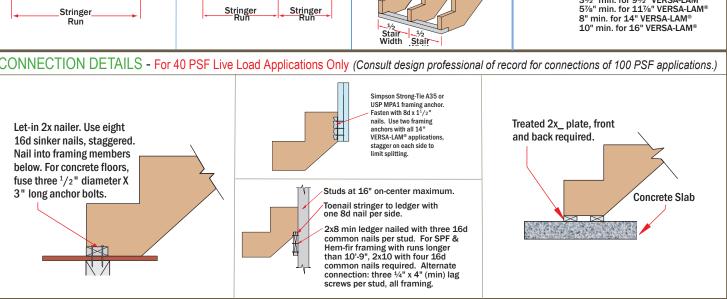
Span Tables and Details

1½" VERSA-LAM® 1.7 2650 Allowable Stair Stringer Spans										ıs
	36" Tread Width			42" Tread Width 3 Stringers		44" Tread Width 3 Stringers		48" Tread Width 3 Stringers		
2 Stringers		3 Stringers								
Material Depth	Stringer Run	Total Rise	Stringer Run	Total Rise	Stringer Run	Total Rise	Stringer Run	Total Rise	Stringer Run	Total Rise
40 PSF Live Load / 12 PSF Dead Load										
9½"	6'-2"	6'-1"	7'-0"	6'-10"	6'-8"	6'-7"	6'-7"	6'-6"	6'-4"	6'-4"
111//8"	10'-0"	9'-7"	11'-5"	10'-10"	10'-10"	10'-4"	10'-8"	10'-2"	10'-5"	9'-11"
14"	13'-6"	12'-8"	15'-5"	14'-4"	14'-8"	13'-8"	14'-5"	13'-6"	14'-0"	13'-2"
100 PSF Live Load / 12 PSF Dead Load										
9½"	4'-7"	4'-9"	5'-2"	5'-3"	4'-11"	5'-1"	4'-10"	5'-0"	4'-9"	4'-10"
111//8"	7'-6"	7'-4"	8'-6"	8'-3"	8'-1"	7'-10"	8'-0"	7'-9"	7'-9"	7'-7"
14"	10'-1"	9'-7"	11'-6"	10'-10"	10'-11"	10'-4"	10'-9"	10'-3"	10'-5"	9'-11"

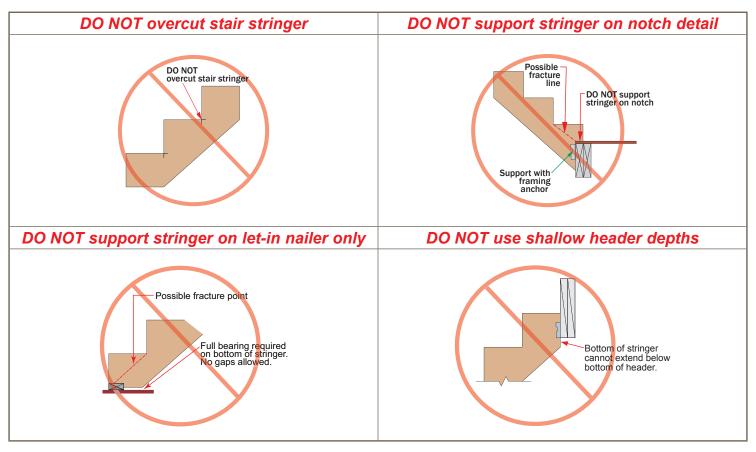
SPAN/LOADING NOTES

- Deflection limited to L/360 live load & L/240 total load.
- Spans based upon a stair limits of 8" max rise and 9" min. run, governing building codes may be more restrictive.
- Contact Boise EWP Engineering for design assistance on other stair stringer applications and/or loading.
- Consult governing building code and/or local building official for proper live load per application.
- Building codes typically restrict stair widths to 44" or greater for stairways serving an occupant load greater than 50 people.
- Maximum total rise between floors is 12'-0" per building codes.





Construction Information and Design Values



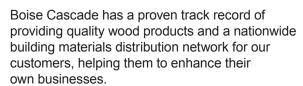


CONSTRUCTION NOTES

- Stair stringers are extremely unstable, use caution when installing treads.
- Use subfloor adhesive on all contact surfaces to minimize squeaks.
- Adequate moisture barrier required between stringers and concrete.
- Keep product as dry as possible during construction.
- All wood splits when significant stress is induced across the grain - DO NOT apply significant side impact load (e.g., hammer) to remaining triangle sections of stringers.
- When installing treated wood, use only connectors/fasteners that are approved for use with the corresponding wood treatment.
- Use fasteners no larger than 8d box nail or 8d wood screw for attaching standard treads, space no closer than 3" on-center.

1½" VERSA-LAM® 1.7 2650 Allowable Design Values										
Modulus of Elasticity E [psi]	Bending F _b [psi]	Horizontal Shear F _v [psi]	Compression Parallel to Grain F _c [psi]	Compression Perpendicular to Grain F _c [psi]	Tension Parallel to Grain F _t [psi]					
1,700,000	2650 ⁽¹⁾	285	3000	750	1650					

¹⁾ Multiply by depth factor: (12/d)^{1/9}



Boise Cascade Engineered Wood Products build better homes with stronger, stiffer floors using only wood purchased in compliance with a number of green building programs. Take a moment to view our sustainability certification site at http://www.bc.com/sustainability/certification-audits/ or view our green brochure at www.bc.com/inst11.

Boise Cascade Engineered Wood Products throughout North America can now be ordered FSC® Chain-of-Custody (COC) certified, enabling homebuilders to achieve LEED® points under U.S. Green Building Council® residential and commercial green building programs including LEED for Homes and LEED for New Construction. Boise Cascade Engineered Wood Products are available as PEFC® Chain-of-Custody certified, SFI® Chain-of-Custody certified and SFI Fiber-Sourcing certified, as well as NAHB Research Center Green Approved, enabling homebuilders to also obtain green building points through the National Green Building Standard.

Lifetime Guaranteed Quality and Performance

Boise Cascade warrants its BCI® Joist, VERSA-LAM®, and ALLJOIST® products to comply with our specifications, to be free from defects in material and workmanship, and to meet or exceed our performance specifications for the normal and expected life of the structure when correctly stored, installed and used according to our Installation Guide.

If in doubt, ask!
For the closest
Boise Cascade EWP
distributor/support center,
call

1-800-232-0788

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