

15/16" VERSA-LAM® 1.4 1800 STAIR STRINGER GUIDE

for products manufactured in White City, Oregon

Laminated Veneer Lumber Stair Stringers with Crossbands for Extra Durability

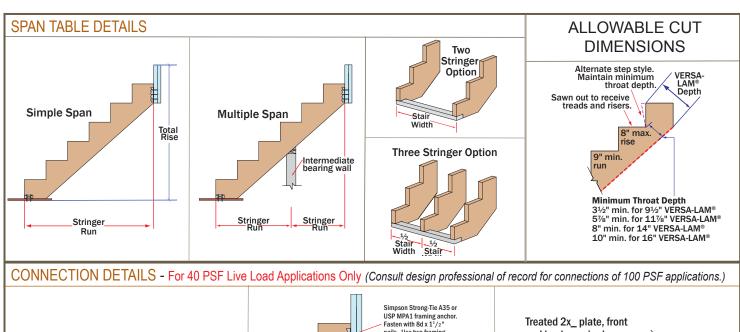


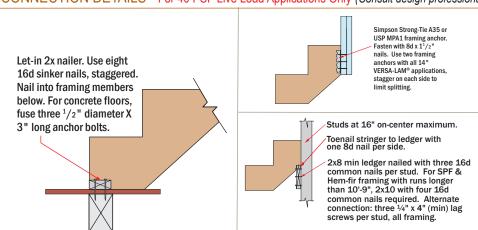
Span Tables and Details

15/16" VERSA-LAM® 1.4 1800 Allowable Stair Stringer Spans										
	36" Tread Width			42" Tread Width		44" Tread Width		48" Tread Width		
	2 Stringers		3 Stringers		3 Stringers		3 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										
91/2"	5'-1"	5'-2"	5'-9"	5'-9"	5'-6"	5'-6"	5'-5"	5'-6"	5'-3"	5'-4"
111/8"	8'-7"	8'-3"	9'-9"	9'-4"	9'-3"	8'-11"	9'-2"	8'-9"	8'-11"	8'-7"
14"	11'-8"	11'-1"	13'-4"	12'-6"	12'-8"	11'-11"	12'-6"	11'-9"	12'-2"	11'-5"
16"	14'-8"	13'-8"	16'-8"	15'-6"	15'-10"	14'-9"	15'-8"	14'-7"	15'-3"	14'-2"
100 PSF Live Load / 12 PSF Dead Load										
9½"	3'-9"	4'-0"	4'-3"	4'-6"	4'-1"	4'-4"	4'-0"	4'-3"	3'-11"	4'-2"
111/8"	6'-5"	6'-4"	7'-3"	7'-1"	6'-11"	6'-10"	6'-10"	6'-9"	6'-8"	6'-7"
14"	8'-9"	8'-5"	9'-11"	9'-6"	9'-6"	9'-1"	9'-4"	8'-11"	9'-1"	8'-9"
16"	10'-11"	10'-5"	12'-5"	11'-9"	11'-10"	11'-2"	11'-8"	11'-1"	11'-4"	10'-9"

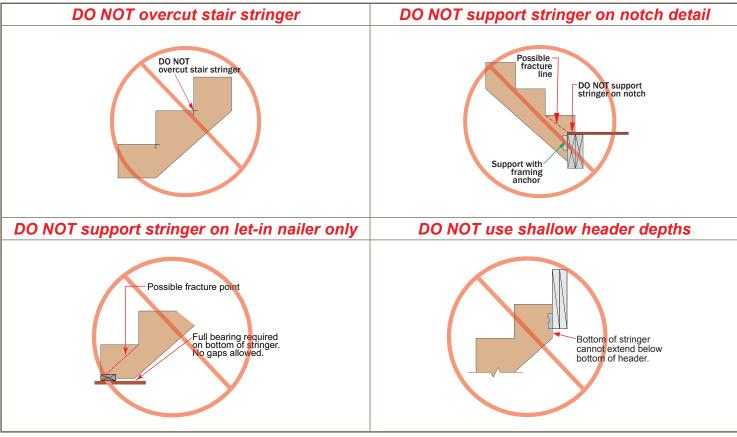
SPAN/LOADING NOTES

- 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, verify actual required minimum riser and tread width as required by local building code and amendments.
- Contact Boise Cascade 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 of 50 or less.
- Maximum total rise between floors is 12'-0" per building codes.
- Actual thickness of VERSA-LAM® 1.4 1800 is 15/16".





Construction Information and Design Values



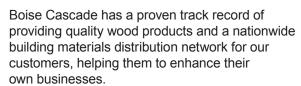


CONSTRUCTION NOTES

- STAIR STRINGERS ARE EXTREMELY UNSTABLE, USE CAUTION WHEN INSTALLING TREADS. DO NOT ALLOW WORKERS ON STAIRS UNTIL EACH END OF EACH STRINGER HAS BEEN PROPERLY ATTACHED AND TEMPORARY TREADS HAVE BEEN INSTALLED.
- 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 #8 wood screw for attaching standard treads, space no closer than 3" on-center.

15/16" VE	RSA-LAM®	1.4	1800 A	llow	able D	esign	Value	?S

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]	
1,400,000	1800	225	2500	525	1250	



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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.

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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!
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