



PERFORMANCE TEST REPORT

Rendered to:

BINGAMAN AND SON LUMBER INC.

PRODUCTS: Ash Deck Boards

Report No.: G0917.01-106-31

Report Date: 09/02/16

Test Record Retention Date: 08/15/20



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BINGAMAN AND SON LUMBER INC.
1195 Creek Mountain Road
P.O. Box 247
Kreamer, Pennsylvania 17833

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Products: Ash Deck Boards

Project Summary: Architectural Testing, Inc., an Intertek company ("Intertek-ATI"), was contracted by Bingaman and Son Lumber Inc. to evaluate the static bending strength of their ash deck boards and wood members. The product descriptions, test procedure, and test results are reported herein.

Test Method: The test specimens were evaluated in general accordance with ASTM D1037-12, *Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials*.

Product Descriptions: The ash deck boards were submitted to Intertek-ATI by Bingaman and Son Lumber Inc. and consisted of two deck boards for each of the eight requested configurations as well as four steel frames assembled by the client that were used for testing. The material was tested as-received.

Test Procedure and Test Results: The testing procedure and results obtained from testing are reported as follows. All conditioning of test specimens and test conditions were at standard laboratory conditions unless otherwise reported.

ASTM D1037 Static Bending

Testing was conducted on a SATEC Model 50UD Universal Test Machine (ICN: Y002011) using a 5,000 pound load cell (ICN: 481380A) operating at a speed of 0.60 in/min. Two of each of the deck boards were assembled onto a steel mock-up to simulate a standard 16" o.c. installation. Each wood member was subjected to a center point compressive load utilizing a 1-1/4" diameter rod until failure occurred. A six" 2 by 4 was utilized for center loading of the end joint assemblies. The maximum load as well as the deflection at 300 pounds was recorded.

ASTM D1037 Static Bending Results

Specimen ID	Maximum Load (lbf)	Deflection at 300 lb (in)
Solid 3/4"	3,130	0.025
Solid 1"	4,194	0.021
B Production End	2,437	0.094
B Production Solid	2,822	0.033
End 3/4" Screw	2,579	0.081
End 3/4" Clip*	944	0.127
End 3/4" Clip (Retest)	965	0.133
End 1" Screw	3,553	0.058
End 1" Clip	1,701	0.065

* = Testing was terminated prior to failure due to a clip pulling out of the assembly.

Intertek-ATI will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Intertek-ATI for the entire test record retention period.

Results obtained are tested values and were secured using the designated test methods. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimens tested. This report may not be reproduced, except in full, without the written approval of Intertek-ATI.

For INTERTEK-ATI:

Joseph R. Descheemaeker
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Components / Materials Testing

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Attachments (pages) This report is complete only when all attachments listed are included.
Appendix A - Photographs (1)



Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	09/02/16	N/A	Original report issue



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APPENDIX A

Photographs



Photo No. 1
Typical Setup for End Joint Member Testing



Photo No. 2
Typical Setup for Solid Member Testing