

BINGAMAN AND SON LUMBER INC. TEST REPORT

SCOPE OF WORK

ASTM D1037 SECTION 9, STATIC BENDING

REPORT NUMBER

M2865.01-106-31 R0

TEST DATES

05/06/21 - 05/18/21

ISSUE DATE

07/06/21

RECORD RETENTION END DATE

05/18/25

PAGES

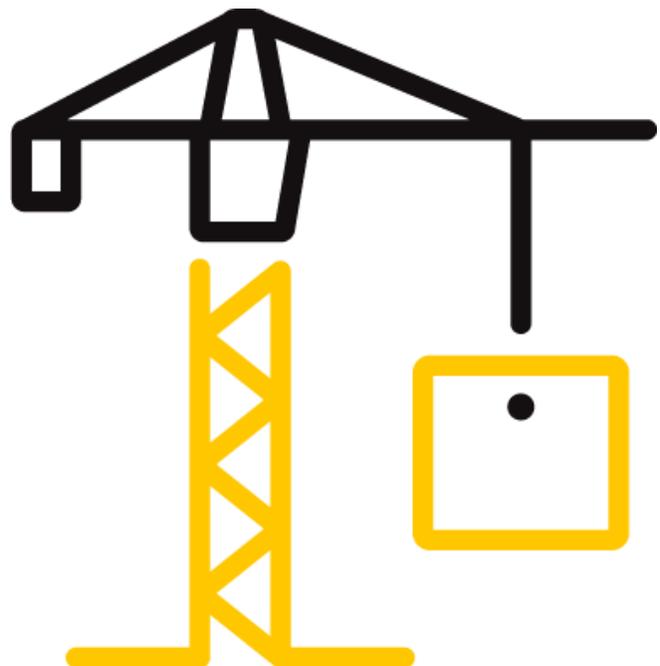
9

DOCUMENT CONTROL NUMBER

ATI 00231 (09/05/17)

RT-R-AMER-Test-2827

© 2017 INTERTEK



TEST REPORT FOR BINGAMAN AND SON LUMBER INC.

Report No.: M2865.01-106-31 R0

Date: 07/06/21

REPORT ISSUED TO

BINGAMAN AND SON LUMBER INC.

1195 Creek Mountain Road

P.O. Box 247

Kreamer, Pennsylvania 17833

SECTION 1

SCOPE

Products: Red Oak Lumber Decking

Intertek Building & Construction (B&C) was contracted by Bingaman and Son Lumber Inc. to evaluate Red Oak Lumber Decking in accordance with ASTM D1037 for Static Bending. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

For INTERTEK B&C:

COMPLETED BY:	Isaiah S. Gingrich	REVIEWED BY:	Joseph M. Brickner
TITLE:	Technician I Materials Laboratory	TITLE:	Laboratory Supervisor Materials Laboratory
SIGNATURE:		SIGNATURE:	
DATE:	07/06/21	DATE:	07/06/21

ISG:jmb/als/aas

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

TEST REPORT FOR BINGAMAN AND SON LUMBER INC.

Report No.: M2865.01-106-31 R0

Date: 07/06/21

SECTION 2

TEST METHOD

The specimens were evaluated in accordance with the following:

ASTM D1037-12(2020), *Standard Test Method for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials*

SECTION 3

MATERIAL SOURCE

The materials were provided by Bingaman and Son Lumber Inc. The following were received in good condition on 5/19/2021: Ten (10), Red Oak Lumber Decking Boards along with various mounting components. Refer to the product description photos in Section 9. The material was tested as received with some assembly prep to properly mount the specimens for testing. Representative materials/test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

SECTION 4

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Isaiah S. Gingrich	Intertek B&C
Joseph M. Brickner	Intertek B&C

TEST REPORT FOR BINGAMAN AND SON LUMBER INC.

Report No.: M2865.01-106-31 R0

Date: 07/06/21

SECTION 5

TEST PROCEDURE

All conditioning of test specimens and test conditions were at standard laboratory conditions unless otherwise reported. Refer to the test related photos in Section 9. Calibration certificates available upon request.

ASTM D1037 - Static Bending (Section 9)

Static bend testing was conducted on an SATEC UTM (ICN: Y002011) equipped with a 5,000 pound load cell (ICN: 65607) operating at a speed of 0.12 in/min. Test specimens were fixtured upon 1.0-in. diameter steel supports spaced 16-in. on center. Each specimen was loaded with the finished side in a face up orientation and subjected to a center point load utilizing a 1.0-in. diameter loading nose until failure occurred. Specimen dimensions were recorded using a digital caliper (ICN: INT01153).

SECTION 6

TEST SPECIMEN DESCRIPTION

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS
ASTM D1037	11	48 in. long by 8 in. wide

TEST REPORT FOR BINGAMAN AND SON LUMBER INC.

Report No.: M2865.01-106-31 R0

Date: 07/06/21

SECTION 7

TEST RESULTS

ASTM D1037 - Static Bending

SPECIMEN ID	WIDTH (in)	THICKNESS (in)	MAXIMUM FORCE (lbf)	DISPLACEMENT AT 300 LBF (in)	FAILURE MODE
5/4 X 6 G&G w/ EM	5.504	1.003	1,340	0.079	Break
5/4 x 6 E4E w/ EM	5.508	1.000	2,510	0.068	Break
5/4 x 6 E4E NO EM	5.508	1.012	4,700	0.042	Break
1 x 6 E4E w/ EM	5.503	0.757	1,500	0.114	Break
1 x 6 E4E NO EM	5.505	0.756	3,240	0.032	Break
5/4 x 6 G&G NO EM	5.499	1.000	1,920	0.038	Break at Point Load
5/4 x 6 G&G NO EM RETEST	5.507	0.999	1,050	0.063	Break
1 x 6 G&G NO EM #1	5.533	0.755	2,840	0.062	Break at Edge and Center
1 x 6 G&G w/ EM #1	5.53	0.748	1,150	0.044	Break at Rear Member
1 x 6 G&G NO EM #2	5.516	0.763	3,160	0.164	Break at Center
1 x 6 G&G w/ EM #2	5.516	0.750	1,090	0.067	Break at Rear Member

TEST REPORT FOR BINGAMAN AND SON LUMBER INC.

Report No.: M2865.01-106-31 R0

Date: 07/06/21

SPECIMEN ID	MODULUS OF RUPTURE (psi)	FLEXURE STRESS AT YIELD (OFFSET 0.02%) (psi)	MODULUS OF ELASTICITY (psi)	PROPORTIONAL LIMIT (psi)
5/4 X 6 G&G w/ EM	5,790	5,750	686,000	5,750
5/4 x 6 E4E w/ EM	10,900	8,490	864,000	8,490
5/4 x 6 E4E NO EM	20,000	16,100	2,090,000	16,100
1 x 6 E4E w/ EM	11,400	6,220	1,130,000	6,220
1 x 6 E4E NO EM	24,700	20,400	3,760,000	20,400
5/4 x 6 G&G NO EM	8,360	8,010	1,930,000	8,010
5/4 x 6 G&G NO EM RETEST	4,590	3,990	1,480,000	3,990
1 x 6 G&G NO EM #1	21,600	17,000	2,710,000	17,000
1 x 6 G&G w/ EM #1	8,950	7,130	996,000	7,130
1 x 6 G&G NO EM #2	23,600	22,800	2,740,000	8,380
1 x 6 G&G w/ EM #2	8,420	8,380	1,010,000	22,800

**SECTION 8
CONCLUSION**

The requested test method does not contain specific performance requirements. Results are reported as obtained.

TEST REPORT FOR BINGAMAN AND SON LUMBER INC.

Report No.: M2865.01-106-31 R0

Date: 07/06/21

SECTION 9 PHOTOGRAPHS



Photo No. 1
As Received Materials



Photo No. 2
Equipment Detail, Pre-Testing

TEST REPORT FOR BINGAMAN AND SON LUMBER INC.

Report No.: M2865.01-106-31 R0

Date: 07/06/21



Photo No. 3
Specimen, Post-Testing



Photo No. 4
Specimen Failure Mode, Post-Testing



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR BINGAMAN AND SON LUMBER INC.

Report No.: M2865.01-106-31 R0

Date: 07/06/21

SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	07/06/21	N/A	Original Report Issue