

WIMAR PERFORMANCE COATINGS, LLC R&D TEST REPORT

SCOPE OF WORK

ASTM D3161/D3161M TESTING ON CHEMICAL SHINGLE COVERING

REPORT NUMBER

P6282.01-109-44

TEST DATE(S)

02/22/23

ISSUE DATE

03/30/23

RECORD RETENTION END DATE

02/22/27

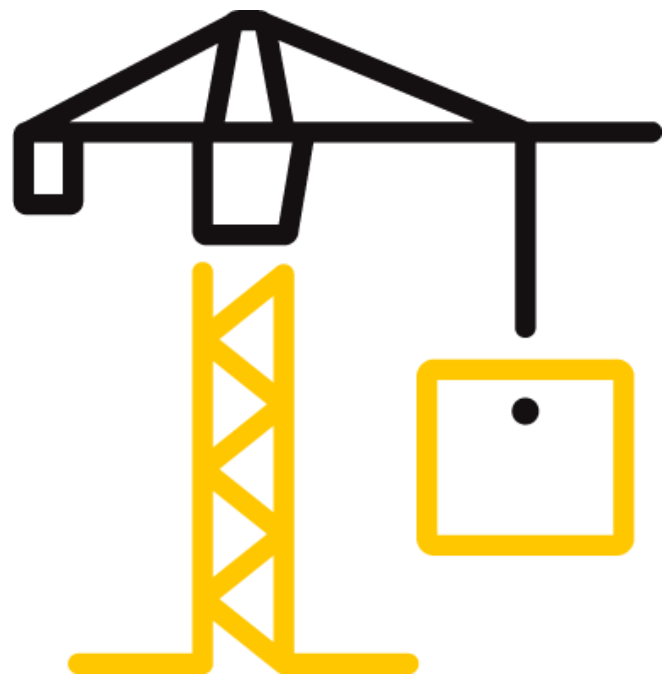
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TEST REPORT FOR WIMAR PERFORMANCE COATINGS, LLC

Report No.: P6282.01-109-44

Date: 03/30/23

REPORT ISSUED TO

WIMAR PERFORMANCE COATINGS, LLC

40 Industrial Park Drive

Franklin, New Hampshire 03235-0009

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by WIMAR Performance Coatings, LLC to perform testing in accordance with ASTM D3161/D3161M, on their Chemical Shingle covering. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at 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. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

For INTERTEK B&C:

COMPLETED BY:	Christopher E. Sartalis
TITLE:	Technician – Product Testing
SIGNATURE:	
DATE:	03/30/23

REVIEWED BY:	Timothy J. McGill
TITLE:	Senior Project Engineer – Product Testing
SIGNATURE:	
DATE:	03/30/23

CES: bsm

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SECTION 2

TEST METHOD(S)

The specimen was evaluated in general accordance with the following:

ASTM D3161/D3161M-20, *Standard Test Method for Wind Resistance of Steep Slope Roofing Products (Fan-Induced Method)*

Test sequence as follows:

- 177 kph (110 mph) for four hours
- 193 kph (120 mph) for one minute
- 209 kph (130 mph) for one minute
- 225 kph (140 mph) for one minute
- 241 kph (150 mph) for one minute
- 257 kph (160 mph) for one minute
- 274 kph (170 mph) for one minute
- 290 kph (180 mph) for one minute
- 306 kph (190 mph) for one minute
- 322 kph (200 mph) for one minute
- 338 kph (210 mph) for one minute
- 354 kph (220 mph) for one minute
- 370 kph (230 mph) for one minute

SECTION 3

MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client. Representative samples of the test specimen(s) will be retained by Intertek B&C for a minimum of four years from the test completion date.

Installation of the tested product was performed by the client.

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SECTION 4 EQUIPMENT

Blower: A1210

Stopwatch: INT00974

Weather Station: INT00549

Wind Speed Monitor: 63363

Tape Measure Verification: 63788

The blower was calibrated in accordance with ASTM D3161/3161M-20, Section 6.1.1, for a Class F rating at 177 kph (110 mph). The blower was also calibrated for supplemental wind driven testing at 193 kph (120 mph), 209 kph (130 mph), 225 kph (140 mph), 241 kph (150 mph), 257 kph (160 mph), 274 kph (170 mph), 290 kph (180 mph), 306 kph (190 mph), 322 kph (200 mph), 338 kph (210 mph), 354 kph (220 mph), and 370 kph (230 mph). The calibration was performed at the center of the orifice.

SECTION 5 LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Tyler J. Holland	Intertek B&C
Timothy J. McGill	Intertek B&C
Christopher E. Sartalis	Intertek B&C

SECTION 6 TEST SPECIMEN DESCRIPTION

Product Type: Chemical Shingle Covering

Product Size(s):

OVERALL AREA:	WIDTH		LENGTH	
	millimeters	inches	millimeters	inches
3.0 m ² (32.0 ft ²)				
Overall size	2438	96	1219	48

Test Specimen Description and Installation:

The test deck was constructed of an 8' x 4' piece of plywood attached to a 2 x 4 Spruce-Pine-Fir lumber around the perimeter to represent a supported roof structure. Tri-Flex XT underlayment was attached to the plywood using 1/2" cap staples approximately 5 - 6 inches on center around the perimeter and along the laps. 5" style E galvanized drip edge was utilized around the perimeter. Eight courses of IKO Cambridge architectural shingles were used along the test deck and fastened every 6" using 7/8" galvanized coil nails. The test deck was conditioned for 4 hours to set the adhesive strip on the shingles. The WIMAR roof coating was applied at a 2 - 4 mil dry coating thickness across the test deck and then conditioned again for 4 hours to allow coating to cure.

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SECTION 7

TEST RESULTS

The temperature during testing was 24°C (75°F). The results are tabulated as follows:

Wind Driven Test – 177 kph (110 mph):

Duration (Hours: Minutes: Seconds)	Wind Speed kph (mph)	Observation
00:00:00 – 02:00:00	177 (110)	No tears, cracks, or creases observed
02:00:00 – 04:00:00	177 (110)	No tears, cracks, or creases observed

Additional Wind Driven Test Beyond 177 kph (110 mph):

Duration (Hours: Minutes: Seconds)	Wind Speed kph (mph)	Observation
00:00:00 – 00:01:00	193 (120)	No tears, cracks, or creases observed
00:00:00 – 00:01:00	209 (130)	No tears, cracks, or creases observed
00:00:00 – 00:01:00	225 (140)	No tears, cracks, or creases observed
00:00:00 – 00:01:00	241 (150)	No tears, cracks, or creases observed
00:00:00 – 00:01:00	257 (160)	No tears, cracks, or creases observed
00:00:00 – 00:01:00	274 (170)	No tears, cracks, or creases observed
00:00:00 – 00:01:00	290 (180)	No tears, cracks, or creases observed
00:00:00 – 00:01:00	306 (190)	No tears, cracks, or creases observed
00:00:00 – 00:01:00	322 (200)	No tears, cracks, or creases observed
00:00:00 – 00:01:00	338 (210)	No tears, cracks, or creases observed
00:00:00 – 00:01:00	354 (220)	No tears, cracks, or creases observed
00:00:00 – 00:01:00	370 (230)	No tears, cracks, or creases observed, maxed out equipment at 370 kph (230 mph)

General Note: Specimen was tested with the roof deck at a 2:12 slope.

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SECTION 8 PHOTOGRAPHS



Photo No. 1
View of Test Specimen Prior to Testing

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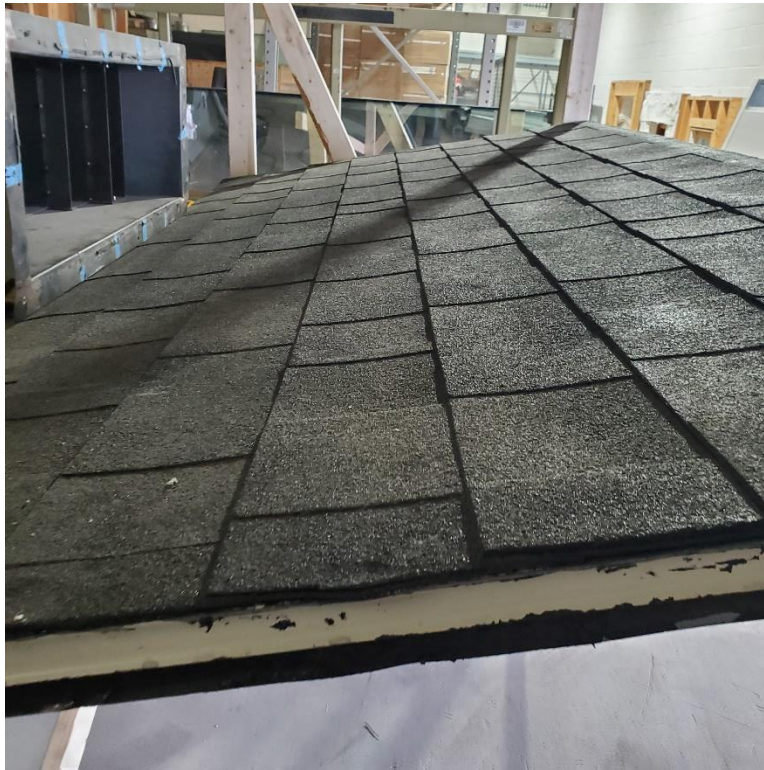


Photo No. 2

View of Test Specimen Immediately Prior to Shutting Off Wind



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SECTION 9 DRAWINGS

Test specimen drawings were not supplied by the client.

SECTION 10 REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	03/30/23	N/A	Original Report Issue