

INTERNATIONAL INSULATION PRODUCTS LLC FIRE TEST REPORT

SCOPE OF WORK

ASTM E108 TESTING ON ROOF ASSEMBLY CONTAINING INTERNATIONAL INSULATION
PRODUCTS LLC UNDERLAYMENTS

REPORT NUMBER

105874178MID-005R1

TEST DATE(S)

10/28/24 - 10/31/24

ISSUE DATE

11/07/24

REVISED DATE

11/19/24

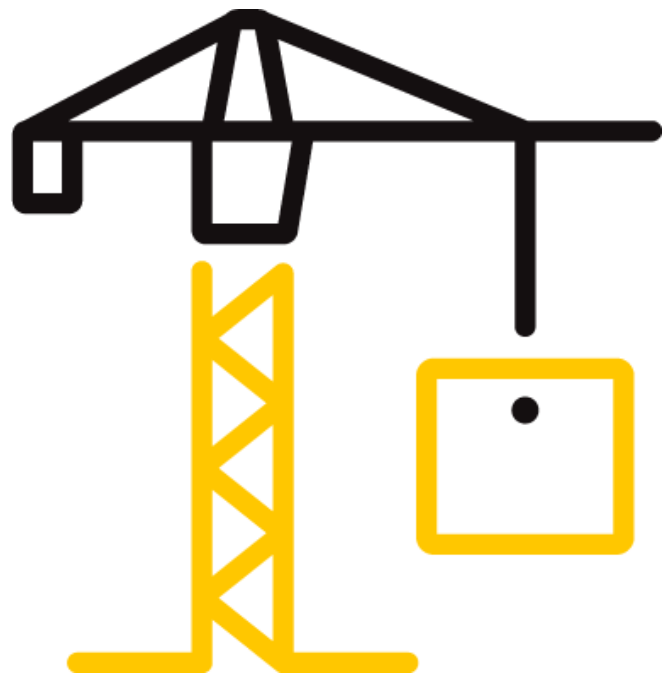
PAGES

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DOCUMENT CONTROL NUMBER

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TEST REPORT FOR INTERNATIONAL INSULATION PRODUCTS LLC

Report No.: 105874178MID-005R1

Date: 11/07/24

REPORT ISSUED TO

International Insulation Products LLC

8695 Transport Drive

Suite 120

Orlando, FL 32832

Contact: Dermot Ennis

E-mail: dermot@iiproducts.com

SECTION 1



SCOPE

Intertek Testing Services NA, Inc. dba Intertek Building & Construction (B&C) was contracted by International Insulation Products LLC to evaluate the fire performance of the assembly described in Section 5 of this report. Testing was conducted at the Intertek B&C test facility in Middleton, WI. Results obtained are tested values and were secured by using the designated test method. A summary of test results is reported herein and the complete assembly construction details are included in this report.

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:	Brian Brunson	REVIEWED BY:	Chad Naggs
TITLE:	Operations Manager –	TITLE:	Technical Team Lead
DEPARTMENT:	Middleton, WI	DEPARTMENT:	Fire
SIGNATURE:		SIGNATURE:	
DATE:	11/19/24	DATE:	11/19/24

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SECTION 2

SUMMARY OF TEST RESULTS

DECK #	TYPE OF TEST	SLOPE	CLASSIFICATION	RESULTS
1	Intermittent Flame	5:12	Class A	Pass
2	Intermittent Flame	5:12	Class A	Pass
3	Intermittent Flame	5:12	Class A	Pass
4	Intermittent Flame	5:12	Class A	Pass
5	Burning Brand	5:12	Class A	Pass
6	Burning Brand	5:12	Class A	Pass
7	Burning Brand	5:12	Class A	Pass
8	Burning Brand	5:12	Class A	Pass
9	Burning Brand	5:12	Class A	Pass
10	Burning Brand	5:12	Class A	Pass
11	Burning Brand	5:12	Class A	Pass
12	Burning Brand	5:12	Class A	Pass
13	Spread of Flame	5:12	Class A	Pass
14	Spread of Flame	5:12	Class A	Pass
15	Spread of Flame	5:12	Class A	Pass
16	Spread of Flame	5:12	Class A	Pass

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SECTION 3

TESTING AND EVALUATION METHODS

The samples were evaluated in accordance with the following:

ASTM E108-20, *Standard Test Methods for Fire Tests of Roof Coverings*

The following test equipment was used to conduct the test.

ROOFING LAB EQUIPMENT	INVENTORY NUMBER	MEASUREMENT UNCERTAINTY	CALIBRATION DUE DATE
Roofing Test Apparatus	204	N/A	Date of Test
Anemometer	442	±2% of max reading	05/30/25
K-Meter	1354	±1°F	07/9/25
Thermocouple Probe	1587	±3.96°F	07/12/25
Stopwatch	1397	±0.001%	01/09/25
Scale	008	±50% of minimum valid division.	04/03/2025
Moisture Meter	1110	N/A	Date of Test
Moisture Meter Calibration Block	1380	±0.134%	04/03/2025
Moisture Meter Pins	144CC	N/A	N/A
Class 'A' Burning Brands	59CC	N/A	N/A

SECTION 4

MATERIAL SOURCE/INSTALLATION

The test material was sampled by a representative of Intertek and submitted by the client. The test material was applied to the plywood decks by Intertek technicians and the client.

Production was witnessed, on 07/29/24 by Intertek representative Derek Anderson, at the International Insulation Products LLC manufacturing facility, located at 8695 Trasport Drive Suite 120 Orlando, FL 32832. The specimens, identified as roofing underlayment, receiving Sample Tracker ID MID2410011339-001 were received in good order at the Evaluation Center on 10/01/24.

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The subject test specimen is a traceable sample selected from the manufacturer's facility. Intertek selected the specimen and has verified the composition, manufacturing techniques and quality assurance procedures (Reference Intertek Test Specimen Selection Report No. G105874178 Sampling Report, dated 07/29/24).

SECTION 5

SPECIMEN DESCRIPTION

The plywood decks were constructed by Intertek technicians according to the specifications of test standard ASTM E108, 2020 Edition, *"Standard Test Methods for Fire Tests of Roof Coverings."* The test material was applied by Intertek technician and the client. The underlayment was attached using roofing cap nails.

Moisture Content: Moisture content of the lumber was verified prior to testing to be within the limits of the standard.

SECTION 5

SPECIMEN DESCRIPTION

The samples are described in more detail in the table below.

DECK #	DECK TYPE	DECK SURFACE	SYSTEM Systems are described in assembly from wood deck to top surface.
1	Class 'A' Intermittent Flame	15/32" AC grade plywood	1 layer of Valor FR x Sol-R-Skin underlayment with clay tile.
2	Class 'A' Intermittent Flame	15/32" AC grade plywood	1 layer of Valor FR x Sol-R-Skin underlayment with clay tile.
3	Class 'A' Intermittent Flame	15/32" AC grade plywood	1 layer of Valor x Sol-R-Skin underlayment with clay tile.
4	Class 'A' Intermittent Flame	15/32" AC grade plywood	1 layer of Valor x Sol-R-Skin underlayment with clay tile.
5	Class 'A' Burning Brand	15/32" AC grade plywood	1 layer of Valor FR x Sol-R-Skin underlayment with clay tile.

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6	Class 'A' Burning Brand	15/32" AC grade plywood	1 layer of Valor FR x Sol-R-Skin underlayment with clay tile.
7	Class 'A' Burning Brand	15/32" AC grade plywood	1 layer of Valor FR x Sol-R-Skin underlayment with clay tile.
8	Class 'A' Burning Brand	15/32" AC grade plywood	1 layer of Valor FR x Sol-R-Skin underlayment with clay tile.
9	Class 'A' Burning Brand	15/32" AC grade plywood	1 layer of Valor x Sol-R-Skin underlayment with clay tile.
10	Class 'A' Burning Brand	15/32" AC grade plywood	1 layer of Valor x Sol-R-Skin underlayment with clay tile.
11	Class 'A' Burning Brand	15/32" AC grade plywood	1 layer of Valor x Sol-R-Skin underlayment with clay tile.
12	Class 'A' Burning Brand	15/32" AC grade plywood	1 layer of Valor x Sol-R-Skin underlayment with clay tile.
13	Class 'A' Spread of Flame	15/32" AC grade plywood	1 layer of Valor FR x Sol-R-Skin underlayment with clay tile.
14	Class 'A' Spread of Flame	15/32" AC grade plywood	1 layer of Valor FR x Sol-R-Skin underlayment with clay tile.
15	Class 'A' Spread of Flame	15/32" AC grade plywood	1 layer of Valor x Sol-R-Skin underlayment with clay tile.
16	Class 'A' Spread of Flame	15/32" AC grade plywood	1 layer of Valor x Sol-R-Skin underlayment with clay tile.

Storage Information: Decks were stored in the fire laboratory prior to testing. Typical laboratory conditions are 60-80°F and 50-65% relative humidity



Total Quality. Assured.

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Middleton, Wisconsin 53562

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SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Seth Newman	Intertek B&C
Derek DeLuca	Intertek B&C

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SECTION 7

TEST RESULTS

Calibration Information

TEST CONDITIONS (CLASS A)	
Test Date	10/28/24
Air Velocity	1057 average fpm
Slope of Cal. Deck	5:12
Average Flame Temperature	1404°F
Ambient Air Temperature	60°F

TEST CONDITIONS (CLASS A)	
Test Date	10/29/24
Air Velocity	1063 average fpm
Slope of Cal. Deck	5:12
Average Flame Temperature	1414°F
Ambient Air Temperature	69°F

TEST CONDITIONS (CLASS A)	
Test Date	10/30/24
Air Velocity	1066 average fpm
Slope of Cal. Deck	5:12
Average Flame Temperature	1392°F
Ambient Air Temperature	70°F

TEST CONDITIONS (CLASS A)	
Test Date	10/31/24
Air Velocity	1057 average fpm
Slope of Cal. Deck	5:12
Average Flame Temperature	1400°F
Ambient Air Temperature	67°F

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BURNING BRAND TESTS

Test Observations Deck: 5

Test Date	10/30/24
Ambient Air Temperature	72°F
Brand Type	Class A, 4.49 lbs.
Slope of Test Deck	5:12

BRAND #	TIME (min:sec)	OBSERVATIONS
1	00:00	Brand placed on deck.
	02:45	Discoloration on top of tiles.
	05:15	Brand $\frac{1}{4}$ consumed.
	07:30	Brand $\frac{1}{2}$ consumed.
	10:40	Brand $\frac{3}{4}$ consumed.
	24:00	Brand fully consumed.
	60:00	Test ended, deck cool to touch.

Acceptance Level: Class "A" – No flaming of the underside of the deck.

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Date: 11/07/24

Test Observations Deck: 6

Test Date	10/30/24
Ambient Air Temperature	72°F
Brand Type	Class A, 4.60 lbs.
Slope of Test Deck	5:12

BRAND #	TIME (min:sec)	OBSERVATIONS
1	00:00	Brand placed on deck.
	02:20	Discoloration on top of tiles.
	05:30	Brand ¼ consumed.
	08:25	Brand ½ consumed.
	11:45	Brand ¾ consumed.
	26:00	Brand fully consumed.
	60:00	Test ended, deck cool to touch.

Acceptance Level: Class "A" – No flaming of the underside of the deck.

Test Observations Deck: 7

Test Date	10/30/24
Ambient Air Temperature	75°F
Brand Type	Class A, 4.39 lbs.
Slope of Test Deck	5:12

BRAND #	TIME (min:sec)	OBSERVATIONS
1	00:00	Brand placed on deck.
	02:10	Discoloration on top of tiles.
	04:45	Brand ¼ consumed.
	07:20	Brand ½ consumed.
	12:20	Brand ¾ consumed.
	25:30	Brand fully consumed.
	60:00	Test ended, deck cool to touch.

Acceptance Level: Class "A" – No flaming of the underside of the deck.

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Test Observations Deck: 8

Test Date	10/30/24
Ambient Air Temperature	74°F
Brand Type	Class A, 4.46 lbs.
Slope of Test Deck	5:12

BRAND #	TIME (min:sec)	OBSERVATIONS
1	00:00	Brand placed on deck.
	02:25	Discoloration on top of tiles.
	04:45	Brand ¼ consumed.
	07:30	Brand ½ consumed.
	12:45	Brand ¾ consumed.
	23:20	Brand fully consumed.
	60:00	Test ended, deck cool to touch.

Acceptance Level: Class "A" – No flaming of the underside of the deck.

Test Observations Deck: 9

Test Date	10/31/24
Ambient Air Temperature	68°F
Brand Type	Class A, 4.71 lbs.
Slope of Test Deck	5:12

BRAND #	TIME (min:sec)	OBSERVATIONS
1	00:00	Brand placed on deck.
	03:00	Discoloration on top of tiles.
	04:45	Brand ¼ consumed.
	07:30	Brand ½ consumed.
	09:45	Brand ¾ consumed.
	24:00	Brand fully consumed.
	60:00	Test ended, deck cool to touch.

Acceptance Level: Class "A" – No flaming of the underside of the deck.

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Test Observations Deck: 10

Test Date	10/31/24
Ambient Air Temperature	68°F
Brand Type	Class A, 4.67 lbs.
Slope of Test Deck	5:12

BRAND #	TIME (min:sec)	OBSERVATIONS
1	00:00	Brand placed on deck.
	04:20	Brand ¼ consumed.
	07:35	Brand ½ consumed.
	09:50	Brand ¾ consumed.
	25:00	Brand fully consumed.
	60:00	Test ended, deck cool to touch.

Acceptance Level: Class "A" – No flaming of the underside of the deck.

Test Observations Deck: 11

Test Date	10/31/24
Ambient Air Temperature	62°F
Brand Type	Class A, 4.48 lbs.
Slope of Test Deck	5:12

BRAND #	TIME (min:sec)	OBSERVATIONS
1	00:00	Brand placed on deck.
	04:10	Brand ¼ consumed.
	04:20	Tiles discoloring.
	06:40	Brand ½ consumed.
	09:45	Brand ¾ consumed.
	24:15	Brand fully consumed.
	60:00	Test ended, deck cool to touch.

Acceptance Level: Class "A" – No flaming of the underside of the deck.

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Test Observations Deck: 12

Test Date	10/31/24
Ambient Air Temperature	62°F
Brand Type	Class A, 4.46 lbs.
Slope of Test Deck	5:12

BRAND #	TIME (min:sec)	OBSERVATIONS
1	00:00	Brand placed on deck.
	04:10	Brand ¼ consumed.
	06:45	Brand ½ consumed.
	09:30	Brand ¾ consumed.
	21:30	Brand fully consumed.
	60:00	Test ended, deck cool to touch.

Acceptance Level: Class "A" – No flaming of the underside of the deck.

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SPREAD OF FLAME TESTS

Test Observations Deck: 13

Test Date	10/31/24
Ambient Air Temperature	55°F
Slope of Test Deck	5:12

TIME (min:sec)	DISTANCE (feet-inches)	OBSERVATIONS/COMMENTS
00:00	—	Burner ignited.
10:00	—	Test stop.

Acceptance Level: Class "A", No surface ignition.

Test Observations Deck: 14

Test Date	10/31/24
Ambient Air Temperature	60°F
Slope of Test Deck	5:12

TIME (min:sec)	DISTANCE (feet-inches)	OBSERVATIONS/COMMENTS
00:00	—	Burner ignited.
10:00	—	Test stop.

Acceptance Level: Class "A", No surface ignition.

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Test Observations Deck: 15

Test Date	10/31/24
Ambient Air Temperature	60°F
Slope of Test Deck	5:12

TIME (min:sec)	DISTANCE (feet-inches)	OBSERVATIONS/COMMENTS
00:00	—	Burner ignited.
10:00	—	Test stop.

Acceptance Level: Class "A", No surface ignition.

Test Observations Deck: 16

Test Date	10/31/24
Ambient Air Temperature	64°F
Slope of Test Deck	5:12

TIME (min:sec)	DISTANCE (feet-inches)	OBSERVATIONS/COMMENTS
00:00	—	Burner ignited.
10:00	—	Test stop.

Acceptance Level: Class "A", No surface ignition.

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Intermittent flame Tests

Test Observations Deck: 1

Test Date	10/28/24
Ambient Air Temperature	64°F
Slope of Test Deck	5:12

CYCLE		TIME TO:		OBSERVATIONS/COMMENTS
NO.	MIN.	IGNITION (min : sec)	FLAME OUT (min : sec)	(Include Off Cycles)
1	Start	—	—	—
2	4:00	—	—	—
3	8:00	—	—	—
4	12:00	—	—	—
5	16:00	—	—	—
6	20:00	—	—	—
7	24:00:00	—	—	—
8	28:00:00	—	—	—
9	32:00:00	—	—	—
10	36:00:00	—	—	—
11	40:00:00	—	—	—
12	44:00:00	—	—	—
13	48:00:00	—	—	—
14	52:00:00	—	—	—
15	56:00:00	—	—	95:00 Test stop.

Acceptance Level: Class "A" – No flaming of the underside of the deck.

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Test Observations Deck: 2

Test Date	10/29/24
Ambient Air Temperature	67°F
Slope of Test Deck	5:12

CYCLE		TIME TO:		OBSERVATIONS/COMMENTS
NO.	MIN.	IGNITION (min : sec)	FLAME OUT (min : sec)	(Include Off Cycles)
1	Start	—	—	—
2	4:00	—	—	—
3	8:00	—	—	—
4	12:00	—	—	—
5	16:00	—	—	—
6	20:00	—	—	—
7	24:00:00	—	—	—
8	28:00:00	—	—	—
9	32:00:00	—	—	—
10	36:00:00	—	—	—
11	40:00:00	—	—	—
12	44:00:00	—	—	—
13	48:00:00	—	—	—
14	52:00:00	—	—	—
15	56:00:00	—	—	1:40:00 Test stop.

Acceptance Level: Class "A" – No flaming of the underside of the deck.

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Test Observations Deck: 3

Test Date	10/29/24
Ambient Air Temperature	72°F
Slope of Test Deck	5:12

CYCLE		TIME TO:		OBSERVATIONS/COMMENTS
NO.	MIN.	IGNITION (min : sec)	FLAME OUT (min : sec)	(Include Off Cycles)
1	Start	—	—	—
2	4:00	—	—	—
3	8:00	—	—	—
4	12:00	—	—	—
5	16:00	—	—	—
6	20:00	—	—	—
7	24:00:00	—	—	—
8	28:00:00	—	—	—
9	32:00:00	—	—	—
10	36:00:00	—	—	—
11	40:00:00	—	—	—
12	44:00:00	—	—	—
13	48:00:00	—	—	—
14	52:00:00	—	—	—
15	56:00:00	—	—	1:40:00 Test stop.

Acceptance Level: Class "A" – No flaming of the underside of the deck.

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Test Observations Deck: 4

Test Date	10/30/24
Ambient Air Temperature	70°F
Slope of Test Deck	5:12

CYCLE		TIME TO:		OBSERVATIONS/COMMENTS
NO.	MIN.	IGNITION (min : sec)	FLAME OUT (min : sec)	(Include Off Cycles)
1	Start	—	—	—
2	4:00	—	—	—
3	8:00	—	—	—
4	12:00	—	—	—
5	16:00	—	—	—
6	20:00	—	—	—
7	24:00:00	—	—	—
8	28:00:00	—	—	—
9	32:00:00	—	—	—
10	36:00:00	—	—	—
11	40:00:00	—	—	—
12	44:00:00	—	—	—
13	48:00:00	—	—	—
14	52:00:00	—	—	—
15	56:00:00	—	—	90:00 Test stop.

Acceptance Level: Class "A" – No flaming of the underside of the deck.

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SECTION 8

CONCLUSION

The International Insulation Products LLC Valor FR x Sol-R-Skin and Valor x Sol-R-Skin underlayment in the system described in this test report **met** the criteria of ASTM E108 (2017) for a Class "A" rating at a 5:12 slope.

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SECTION 9

PHOTOGRAPHS

Photo No. 1
TEST #1 BEFORE



Photo No. 2
TEST #1 AFTER



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SECTION 9 (Continued)

PHOTOGRAPHS

Photo No. 3
TEST #2 BEFORE



Photo No. 4
TEST #2 AFTER



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PHOTOGRAPHS

Photo No. 5
TEST #3 BEFORE



Photo No. 6
TEST #3 AFTER



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PHOTOGRAPHS

Photo No. 7
TEST #4 BEFORE



Photo No. 8
TEST #4 AFTER



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SECTION 9 (Continued) PHOTOGRAPHS

**Photo No. 9
TEST #5 BEFORE**



**Photo No. 10
TEST #5 AFTER**



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PHOTOGRAPHS

Photo No. 11
TEST #6 BEFORE



Photo No. 12
TEST #6 AFTER



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PHOTOGRAPHS

Photo No. 13
TEST #7 BEFORE



Photo No. 14
TEST #7 AFTER



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PHOTOGRAPHS

Photo No. 15
TEST #8 BEFORE



Photo No. 16
TEST #8 AFTER



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Photo No. 17
TEST #9 BEFORE



Photo No. 19
TEST #10 BEFORE



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Photo No. 20
TEST #10 AFTER



Photo No. 21
TEST #11 BEFORE

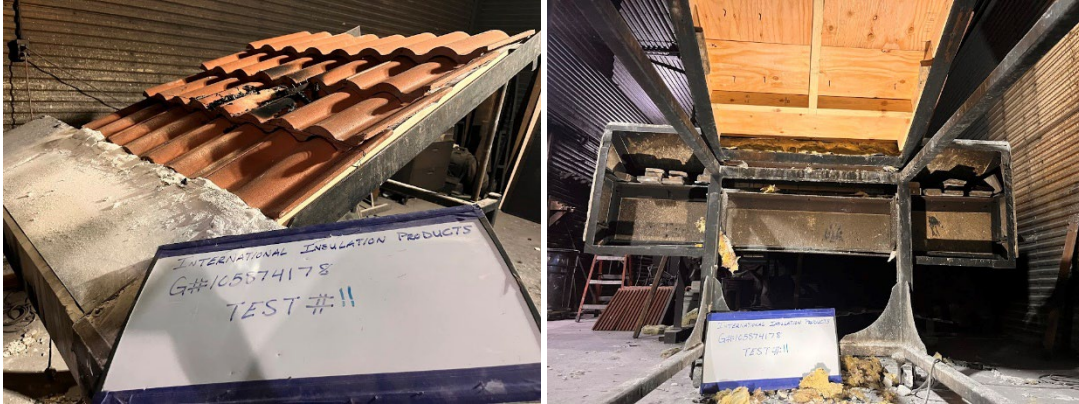


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Photo No. 22
TEST #11 AFTER



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Photo No. 23
TEST #12 BEFORE



Photo No. 24
TEST #12 AFTER



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Photo No. 25
TEST #13 BEFORE



Photo No. 26
TEST #13 AFTER



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Photo No. 27
TEST #14 BEFORE



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Photo No. 29
TEST #15 BEFORE



Photo No. 30
TEST #15 AFTER



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Photo No. 31
TEST #16 BEFORE



Photo No. 32
TEST #16 AFTER



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SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	11/07/24	37	Original Report Issue
1	11/19/24	5, 6, 20	Updated product names to Valor x Sol-R-Skin and Valor FR x Sol-R-Skin