

VISION WOOD FIRE TEST REPORT

SCOPE OF WORK

ASTM E108 TESTING ON THERMALLY-MODIFIED ASH DECKING PANEL
ID: VW-HTA56DG

REPORT NUMBER

104546846SAT-001

TEST DATE

12/23/20

ISSUE DATE **[REVISED DATE]**

12/30/20 ORIGINAL

RECORD RETENTION END DATE

12/30/30

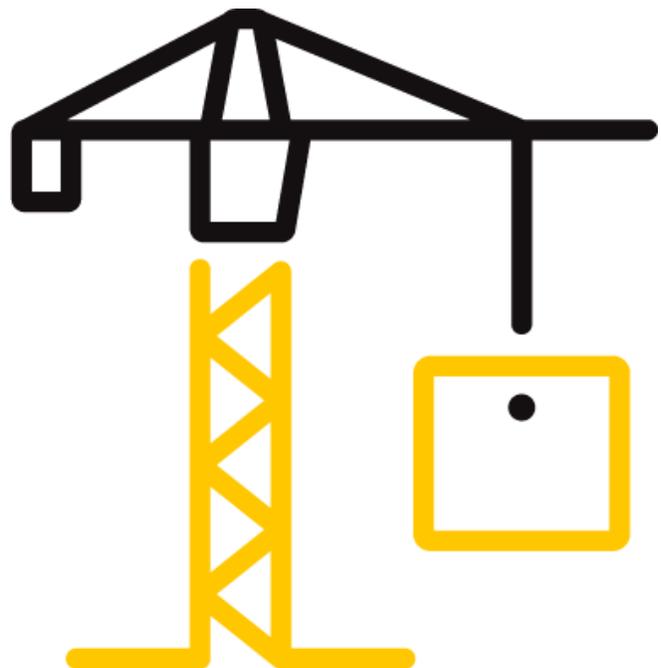
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DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2847 (03/07/18)

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TEST REPORT FOR VISION WOOD

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Date: 12/30/20

REPORT ISSUED TO

Vision Wood

6010 Magazine Street
New Orleans, LA 70118

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Vision Wood 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 Elmendorf, Texas. 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. The criteria being considered for this evaluation is Spread of Flame (SOF). The deck construction represents a non-combustible roof.

SECTION 2

SUMMARY OF TEST RESULTS

| TYPE OF TEST | SLOPE | CLASSIFICATION | RESULTS |
|-----------------------|-----------------|----------------|---------|
| Spread of Flame (SOF) | 0:12 (No Slope) | Class A | Pass |

For INTERTEK B&C:

| | | | |
|----------------------|---|---------------------|---|
| COMPLETED BY: | Servando Romo | REVIEWED BY: | Jason De La Cruz |
| TITLE: | Project Engineer | TITLE: | Senior Project Engineer, |
| DEPARTMENT: | Flammability | DEPARTMENT: | Building & Construction |
| SIGNATURE: |  | SIGNATURE: |  |
| DATE: | 12/29/20 | DATE: | 12/30/20 |

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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

SECTION 4

MATERIAL SOURCE/INSTALLATION

The test material was not sampled by a representative of Intertek. The test specimen was submitted to Intertek directly from the client. Samples were not independently selected for testing. Intertek has not verified the composition, manufacturing techniques or quality assurance procedures. The specimens identified as Modified Ash Decking Panel- ID: VW-HTA56DG were received in good order at the Evaluation Center on 12/22/20.

SECTION 5

SPECIMEN DESCRIPTION

The non-combustible test deck was assembled by Intertek and the Thermally Modified Ash Decking Panel was assembled by Vision Wood. The final assembly was completed on the test frame by Intertek. The adjustable plastic leveling pedestals were placed on top of non-combustible surface as part of the final assembly.

NON-COMBUSTIBLE DECK SURFACE

The deck construction represents a non-combustible roof. Two layers of GP DensGlass® sheathing were used as a non-combustible test deck for this test and is not a part of the specimen deck system. The two layers of DensGlass® added the rigidity and height that was needed for this non-combustible deck assembly. This assembly represents a flat roof and is considered a no slope roof (0:12).

SPECIMEN CONSTRUCTION ASSEMBLY

Material Name: North American White Ash

Genus specie: Fraxinus americana

Material ID: VW-HTA56DG

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SECTION 5 (Continued)

Panel: Thermally-Modified Ash Decking Panel with Hidden Fastener System (Mantis) installed on 2 in. x 4 in. pine joists.

Trade Name: Heat Treated Ash 1 in. x 5 in Decking

The Sample consisted of thermally-modified ash decking boards, which were constructed of eighteen (18) top pieces that were fastened using Mantis Hidden Fastener clips to three bottom runner boards. The decking panel was mounted on top of adjustable plastic leveling pedestals.

Sample Dimensions: 93 in. x 40 in. (nominal 8 ft. x 3.33 ft.)

Thickness of Assembly without plastic leveling system: 2.62 in.

Construction details in ascending order:

1. A plastic pedestal leveling system
2. 2 in. x 4 in. x 8 ft. pressure treated pine joists
3. Thermally-modified ash decking boards



Color of 1 in. x 5 in. decking: Brown

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SECTION 6

LIST OF OFFICIAL OBSERVERS

| NAME | COMPANY |
|------------------|--------------|
| Servando Romo | Intertek B&C |
| Darrell Gonzales | Intertek B&C |

SECTION 7

TEST RESULTS

Calibration Information

| TEST CONDITIONS (CLASS A) | |
|---------------------------|------------------|
| Test Date | 12/23/2020 |
| Air Velocity | 1035 average fpm |
| Slope of Cal. Deck | 5:12 |
| Average Flame Temperature | 1386°F |
| Ambient Air Temperature | 73°F |

The following test equipment was used to conduct the test.

| ROOFING LAB EQUIPMENT | INVENTORY NUMBER | CALIBRATION DUE DATE |
|-----------------------|------------------|----------------------|
| Thermo-Hygrometer | 10361068 | 7/23/21 |
| Anemometer 4 inch. | RVA500543003 | 11/30/21 |
| Stopwatch | 170558059 | 1/13/21 |
| Digital Thermometer | T156701 | 7/21/21 |

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SECTION 7(Continued)**TEST RESULTS****SPREAD OF FLAME TEST****Test Observations (Test run #1)**

| | |
|-------------------------|-----------------|
| Test Date | 12/23/2020 |
| Ambient Air Temperature | 76°F |
| Slope of Test Deck | 0:12 (No Slope) |

| TIME (min:sec) | DISTANCE (feet-inches) | OBSERVATIONS/COMMENTS |
|---------------------------|-----------------------------------|--|
| 00:00 | | Burner ignited |
| 02:11 | | Ignition |
| 02:26 | 0-5 | Flames at 5 inches |
| 03:18 | 0-10 | Flames at 10 inches |
| 03:41 | 1-0 | Flames at 1 foot |
| 7:56 | | Flame receding from a maximum distance of 1 foot 3 inches. |
| 10:00 | | Test burner off – Flame out 7 sec. |
| 10:30 | | Test is terminated. |

Note: The adjustable plastic leveling pedestals did not melt.

Acceptance Level: Class "A", maximum spread of flames is 1'3".

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SECTION 7 (Continued)

TEST RESULTS

SPREAD OF FLAME TEST (Test run #2)

Test Observations

| | |
|-------------------------|-----------------|
| Test Date | 12/23/2020 |
| Ambient Air Temperature | 78°F |
| Slope of Test Deck | 0:12 (No Slope) |

| TIME (min:sec) | DISTANCE (feet-inches) | OBSERVATIONS/COMMENTS |
|-------------------|---------------------------|--|
| 00:00 | | Burner ignited |
| 01:35 | 0-5 | Ignition Flames at 5 inches |
| 06:47 | 0-10 | Flames at 10 inches |
| 07:16 | 1-0 | Flames at 1 foot |
| 07:42 | 1-3 | Flames at 15 inches |
| 9:37 | | Flame receding from a maximum distance of 1 foot 3 inches. |
| 10:00 | | Test burner off - Flame out 10 sec. |
| 10:30 | | Test is terminated. |
| | | |
| | | |

Note: The adjustable plastic leveling pedestals did not melt.

Acceptance Level: Class "A", maximum spread of flames is 1'3".

CONCLUSION

The Thermally Modified Ash Decking Panel- ID: VW-HTA56DG in this test report **met** the criteria of ASTM E108 (2020) for Spread of Flame Class "A" rating at a 0:12 slope (No Slope).

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SECTION 8 PHOTOGRAPHS



Top View: Adjustable plastic leveling pedestals resting on GP DensGlass® Sheathing
The DensGlass® Sheathing is on the ASTM E 108 steel test frame.



Adjustable plastic leveling pedestals spaced 16 inches apart in the width direction and 24 inches apart in the longitudinal direction.

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SECTION 8(Continued)



From bottom up: Two layers GP DensGlass® Sheathing, adjustable plastic leveling pedestals, 2 x 4 board runners and the Thermally Modified Ash Decking Panels



View of the end of the deck assembly ready for testing.

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SECTION 8(Continued)



Side view: ASTM E 108 steel test frame, DensGlass® Sheathing, Plastic leveling pedestals, 2 x 4 board runners and the Thermally Modified Ash Decking Panels



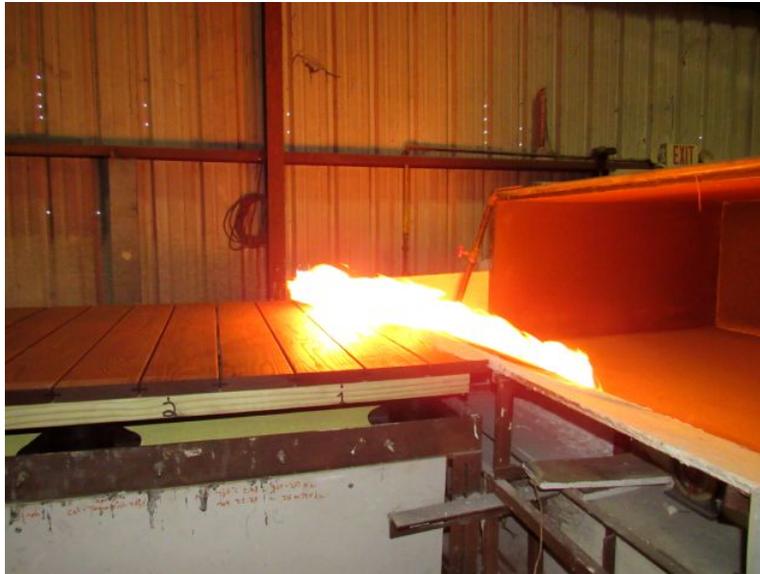
Finished Surface of Thermally Modified Ash Decking Panel

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SECTION 8(Continued)



Start of the test #1.



The test burner flame was cut-off at 10 minutes. The flames on the sample self-extinguished at 7 seconds after the test burner flame was cut-off.

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SECTION 8(Continued)



Post test photo test top view of test #1



Post photo of test #1. Deck removed from the test frame.

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SECTION 8(Continued)



Flames at 10 inches on test #2 at 6:47. (min:sec)



The test burner flame was cut-off at 10 minutes. The flames on the sample self-extinguished at 10 seconds after the test burner flame was cut-off.

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SECTION 9(Continued)



Post test photo test top view of test #2



Post test photo of test #2. Deck removed from the test frame.



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SECTION 9

REVISION LOG

| REVISION # | DATE | PAGES | REVISION |
|------------|----------|-------|-----------------------|
| 0 | 12/30/20 | N/A | Original Report Issue |