



## ASTM E108 TEST REPORT

**Report No.:** G7288.01-121-24

**Test Date:** May 26, 2017

**Rendered to:**

Innovative Base Technologies  
St. Petersburg, Florida

**PRODUCT TYPE:** Non-Combustible Roof Deck System  
**SERIES/MODEL:** Ultra Base Systems (UBS) PROFR Panels

**SPECIFICATION:** ASTM E 108-17, *Standard Test Methods for Fire Tests of Roof Coverings.*

ASTM E108 Summary of Test Results				
Sample #	Roof Covering Description	Type of Test	Target Classification	Results
Sample #1	Non-Combustible Deck with Ultra Base Systems (UBS) PROFR Panels	Spread of Flame	Class A	Pass
Sample #2	Non-Combustible Deck with Ultra Base Systems (UBS) PROFR Panels	Spread of Flame	Class A	Pass

**This report contains in its entirety:**

**Cover Page:** 1 page  
**Report Body:** 6 pages  
**Photographs:** 2 pages

Reference must be made to Report No. G7288.01-121-24, dated 05/30/17 for complete test specimen description and detailed test results.

**1.0 Report Issued To:** Innovative Base Technologies  
5030 Seminole Blvd.  
St. Petersburg, Florida 33708

**2.0 Test Laboratory:** Architectural Testing, Inc., an Intertek company (“Intertek-ATI”)  
130 Derry Court  
York, Pennsylvania 17406  
717-764-7700

### 3.0 Project Summary:

**3.1 Introduction:** This fire test standard aims to measure relative fire characteristics of roof coverings under simulated fire scenarios which originate outside the building. Under controlled laboratory conditions, the behavioral response of materials, products or assemblies as affected by heat and flame are described. The performances of the roof covering systems are described only under specific conditions. Information is not provided by these tests that are applicable to any scenarios other than the specific conditions experienced during testing. Information is not provided by these tests that are applicable to actual fire situations because of the inherent differences between the classes as it pertains to fire source and fire application; no comparison between the classes exist. Results from tests are applicable to the specifics of the test and the aspect in which the tests were conducted, and are not applicable to similar materials or the results of those materials when used in concert with other materials.

**3.2 Product Type:** Non-Combustible Roof Deck System

**3.3 Series/Model:** Ultra Base Systems (UBS) Pro Panels

**3.4 Compliance Statement:** Results obtained are tested values and were secured by using the designated test method(s). 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 Architectural Testing, Inc.

**3.5 Test Dates:** 01/20/2017, and 05/26/2017

**3.6 Test Sample Source:** The test specimens were provided by Innovative Base Technologies. Representative samples of the test specimen(s) will be retained by Intertek-ATI for a minimum of ten years from the test completion date.

#### 3.7 Test Method:

3.7.1 ASTM E108-17, *Standard Test Methods for Fire Tests of Roof Covering*

3.7.1.1 Section 9 – Class A Spread of Flame

#### 4.0 Test Details:

**4.1 Specimen Description:** Test decks consisted of a top layer of UBS Pro Panels that was nominal thickness of 1-1/4 inch. These panels were attached to the test deck with 2 inches long #6 wood drywall screws in the corner of each panel.

##### 4.1.1 Spread of Flame

4.1.1.1 Test Deck – 40 inches wide by 8 feet long 2 x 4 dimensional lumber was used to create the frame. 15/32 inch thick Type AC grade plywood with face and back veneers of Douglas Fir was used as the deck.

4.1.1.2 Roof Covering - Ultra Base Systems (UBS) PROFR Panels containing PPC6FR5-UV Natural flame retardant reinforced polypropylene copolymer

**4.2 Equipment:** A Fire Test Apparatus as described in ASTM E 108 was used to generate 12 ± 0.5 mph air current and flame temperature of 1400 ± 50°F. Air speed and flame temperature of the Fire Test Apparatus was calibrated prior to testing.

**4.3 Spread of Flame Procedure:** After calibration of equipment. Test specimen described in Section 4.1 was placed into the steel framed holder for testing at a 1/2:12 slope. Fire Test Apparatus was turned on and the specimen was subjected to Section 9 of ASTM E 108, Spread of Flame testing procedures, for duration of 10 minutes. This procedure was repeated for both test decks.

#### 4.4 Official Observers:

<u>Name</u>	<u>Company</u>
Tim Feltman	Intertek-ATI
Scott Gingrich	Intertek-ATI
Ben Green	Intertek-ATI
Mark Dluzeski	Intertek-ATI

#### 4.5 Calibration Information:

01/20/2017

Average Wind Speed: 12.1 MPH

Ambient Temperature: 61°F

Average Flame temperature: 1411 °F

05/26/2017

Average Wind Speed: 11.9 MPH

Ambient Temperature: 71°F

Average Flame temperature: 1437 °F

**5.0 Test Observations:**

**Specimen #1 tested on 01/20/2017**

<b>Time (min:sec)</b>	<b>Event</b>	<b>Observations</b>
00:01	Flame On	Start of test.
0:54	Ignition	Ignition of panel.
01:12	Flame Spread	Flaming of mounted material reaches 1 foot.
02:41	Flame Spread	Flaming of mounted material reaches 2 feet.
07:54	Flame Spread	Flaming of mounted material reaches 3 feet.
10:00	Flame off	End of test.
After Test	Ignition of the product was observed but did not pass 6 feet; <b>PASS.</b>	

**Specimen #2 tested on 05/26/2017**

<b>Time (min:sec)</b>	<b>Event</b>	<b>Observations</b>
00:01	Flame On	Start of Test
01:21	Ignition	Ignition of panel.
01:41	Flame Spread	Flaming of mounted material reaches 1 foot.
03:03	Flame Spread	Flaming of mounted material reaches 2 feet.
04:25	Flame Spread	Flaming of mounted material reaches 3 feet.
09:59	Flame Spread	Flaming of mounted material reaches 4 feet.
10:00	Flame Off	End of test.
After Test	Ignition of the product was observed but did not pass 6 feet; <b>PASS.</b>	

## 6.0 Test Conclusion:

The test specimens provided to Intertek-ATI by Innovative Base Technologies and described in this test report **met** the conditions of acceptance of ASTM E 108-17 Class A Spread of Flame procedures for a noncombustible deck at a 5:12 slope.

The service life of this report will expire on the stated Test Record Retention End Date, at which time such materials as drawings, data sheets, samples of test specimens, copies of this report, and any other pertinent project documentation, shall be discarded without notice.

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 specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Intertek-ATI.

For INTERTEK-ATI:

---

Scott Gingrich  
Senior Technician – Fire Testing

---

Ethan Grove  
Manager – Fire Testing

SDG:ddr

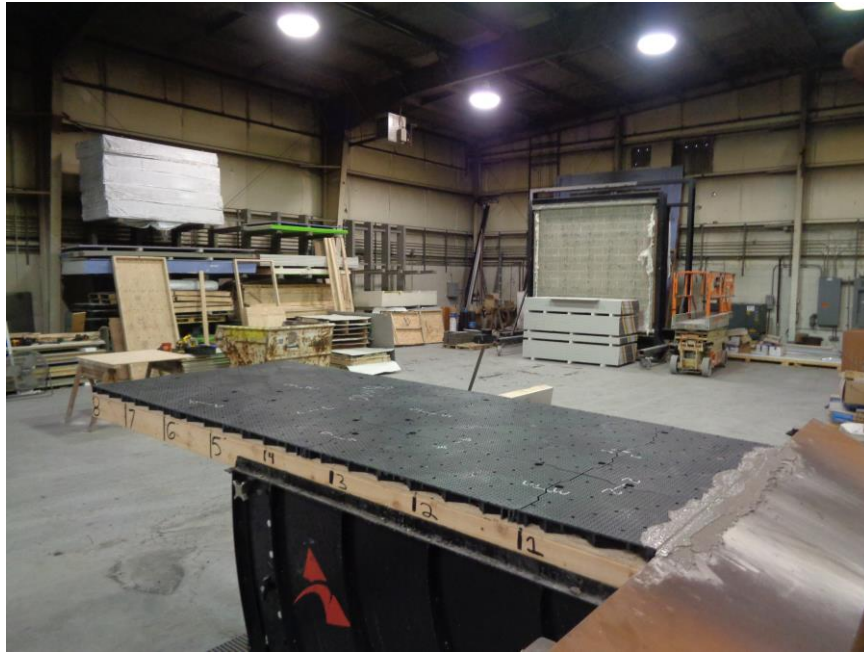
Attachments (pages): This report is complete only when all attachments listed are included.  
Appendix-A: Photographs (2)

### Revision Log

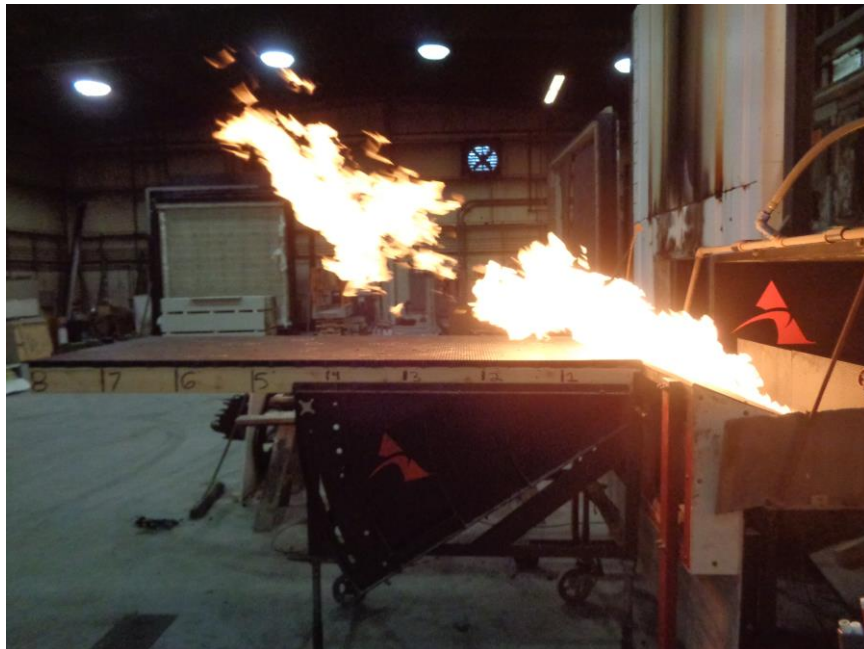
<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	06/02/2017	N/A	Original report issue
1	6/22/2017	Cover Page, Page 1 and 2	Changed product designation from “Ultra Base Systems (UBS) Pro Panels” to “Ultra Base Systems (UBS) PROFR Panels”
1	6/22/2017	Page 2	Added “containing PPC6FR5-UV Natural flame retardant reinforced polypropylene copolymer” to material composition under 4.1.1.2.

## **Appendix A**

### **Photographs**

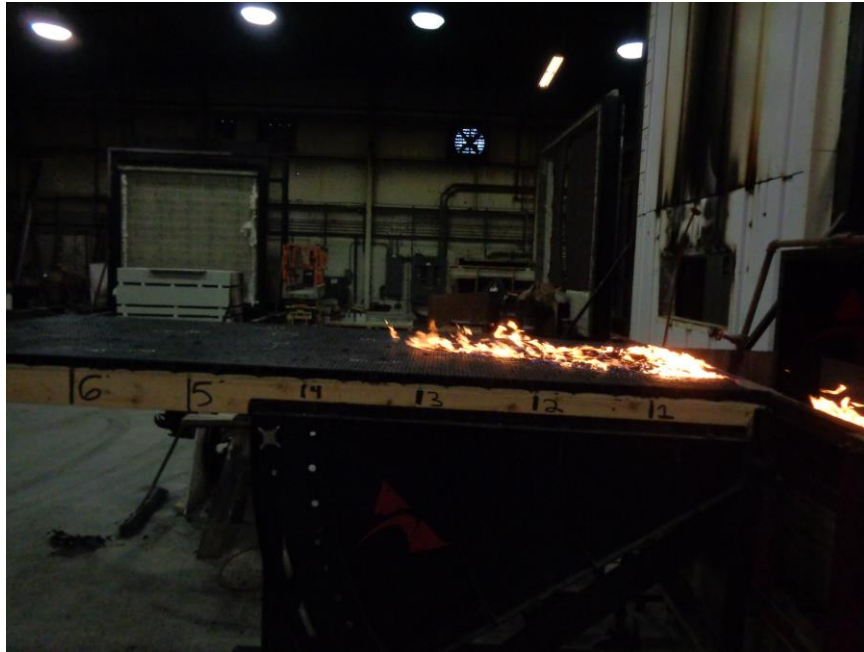


**Photo No. 1**  
**Test Deck**

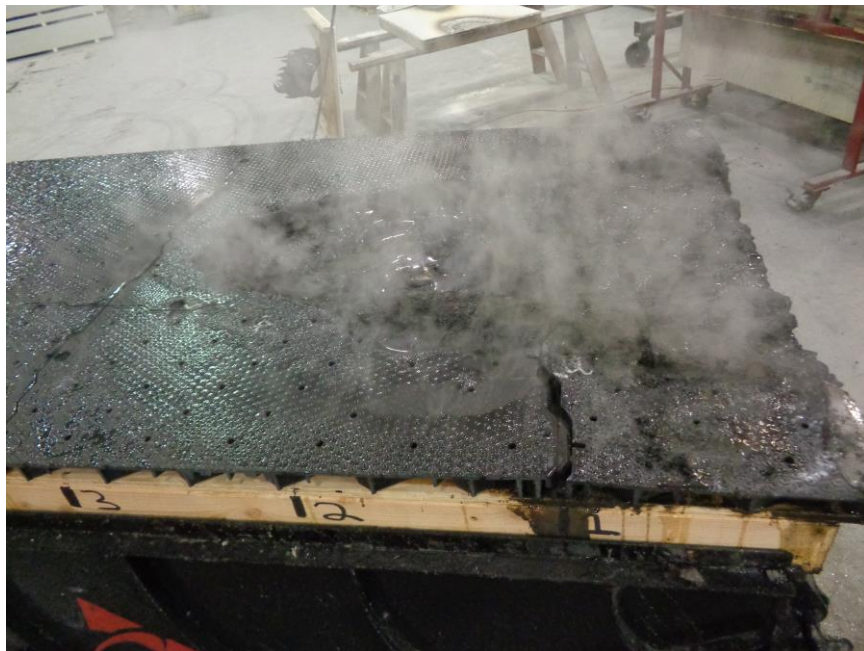


**Photo No. 2**  
**Spread of Flame Test**





**Photo No. 4  
Specimen Post-test**



**Photo No. 5  
Spread of Flame Burn Pattern (Post-test)**