

# BUZZISPACE USA FIRE TEST REPORT

**SCOPE OF WORK**

ASTM E84-18 TESTING ON THERMOFIXIERT FELT OFFWHITE

**REPORT NUMBER**

103481350SAT-001B

**TEST DATE(S)**

4/17/18

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## TEST REPORT FOR BUZZISPACE USA

Report No.: 103481350SAT-001B

Date: 4/19/18

### REPORT ISSUED TO

#### BuzziSpace USA

1200 Redding Drive  
High Point, NC 27260

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by BuzziSpace USA, 1200 Redding Drive, High Point, NC 27260, to evaluate the flame spread and smoke developed properties of Thermofixiert Felt Offwhite. 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(s). A summary of test results and the complete graphical test data is reported herein.

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

### SECTION 2

#### SUMMARY OF TEST RESULTS

**Specimen I.D.:** Thermofixiert Felt Offwhite

#### ASTM E84-18 Test Results

| FLAME SPREAD INDEX | SMOKE DEVELOPED INDEX |
|--------------------|-----------------------|
| 15                 | 250                   |

For INTERTEK B&C:

|                      |   |                     |   |
|----------------------|---|---------------------|---|
| <b>COMPLETED BY:</b> | Joseph Martinez   | <b>REVIEWED BY:</b> | Servando Romo   |
| <b>TITLE:</b>        | Technician  | <b>TITLE:</b>       | Project Engineer  |
| <b>SIGNATURE:</b>    |  | <b>SIGNATURE:</b>   |  |
| <b>DATE:</b>         | 4/19/18   | <b>DATE:</b>        | 4/19/18   |

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### SECTION 3

#### TEST METHOD

The specimen was evaluated in accordance with the following:

**ASTM E84-18**, *Standard Test Method for Surface Burning Characteristics of Building Materials*

### SECTION 4

#### MATERIAL SOURCE/INSTALLATION

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 specimen, identified as Thermofixiert Felt Offwhite, was received in good order at the Evaluation Center on 4/10/18 and given identification number SAT1804101359-002.

### SECTION 5

#### LIST OF OBSERVERS

| NAME            | COMPANY      |
|-----------------|--------------|
| Joseph Martinez | Intertek B&C |
| Samuel Barron   | Intertek B&C |

### SECTION 6

#### TEST PROCEDURE

This report describes the results of testing conducted in accordance with ASTM E84-18; Standard Test Method for Surface Burning Characteristics of Building Materials. The test method is for comparative surface burning behavior of building materials by determining a flame spread index (FSI) and a smoke developed index (SDI). This test is generally applicable to exposed surfaces, such as finish materials for ceilings or walls, provided that the material or assembly of materials, by its own structural quality or the manner in which it is tested and intended for use, is capable of supporting itself in position or being supported during the test period.

*“The use of supporting materials on the underside of the test specimen may lower the flame spread index from that which might be obtained if the specimen could be tested without such support. This method may not be appropriate for obtaining comparative surface burning behavior of some cellular plastic materials. Testing of materials that melt, drip, or delaminate to such a degree that the continuity of the flame front is destroyed, results in low flame spread*

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*indices that do not relate directly to indices obtained by testing materials that remain in place.” – ASTM E84-18 Section 1.3*

The purpose of the method is to determine the relative burning behaviour of the material by observing the flame spread along the specimen. Flame spread and smoke density developed are reported, however, there is not necessarily a relationship between these two measurements.

### SECTION 6 (Continued)

#### TEST PROCEDURE

It is the expressed intent of the test method to provide only comparative measurements of surface flame spread and smoke density of the tested material against measurements for select grade red oak flooring and fiber-cement board when tested under specific fire exposure conditions. The test method exposes a nominal 24-ft (7.32-m) long by 20-in. (508-mm) wide test specimen to a controlled air flow and flaming fire exposure adjusted to produce a specific flame spread distance vs time calibration using select grade red oak flooring.

The test method does not provide information regarding heat transmission through the tested surface, the effect of aggravated flame spread behavior resulting from the proximity of combustible walls and ceilings, or the classification or definition of materials as noncombustible using flame spread index alone.

***This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.***

There were no deviations from the requirements prescribed in ASTM E84-18.

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**SECTION 7**

**TEST SPECIMEN DESCRIPTION**

|                               |   |
|-------------------------------|---|
| <b>MANUFACTURER*</b>          | BuzziSpace USA  |
| <b>SPECIMEN DESCRIPTION*</b>  | N/A   |
| <b>CONDITIONING TIME</b>      | 7 days  |
| <b>SPECIMEN LENGTH</b>        | 24 ft. (One 24 ft. long roll of felt material)                    |
| <b>SPECIMEN WIDTH</b>         | 22.75 in.   |
| <b>THICKNESS</b>              | 0.23 in.  |
| <b>TOTAL WEIGHT</b>           | 10 lbs.   |
| <b>COLOR</b>                  | Off-White   |
| <b>ADHESIVE/COVERAGE RATE</b> | N/A   |
| <b>SIDE TO FLAME*</b>         | Same on both sides.   |
| <b>SUPPORT USED*</b>          | Rods and Wire   |
| <b>MOUNTING METHOD</b>        | Standard  |
| <b>SUBSTRATE USED*</b>        | N/A   |
| <b>CEMENT BOARD</b>           | 1/4 in. thick fiber cement board was placed on top of the sample. |

\*From the client's material description and/or instructions

**Note:** Specimens were conditioned as per the requirements of Section 6.4 of ASTM E84-18.

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**SECTION 8**

**TEST RESULTS**

| <b>TEST RESULTS</b>           |                 |
|-------------------------------|-----------------|
| Test Date                     | 4/17/18         |
| Test Operator                 | Joseph Martinez |
| Flame Spread Index (FSI)      | 15              |
| Smoke Developed Index (SDI)   | 250             |
| Red Oak Calibration (% * Min) | 72.0            |

| <b>TEST DATA</b>              |        |
|-------------------------------|--------|
| FSI (unrounded)               | 14.0   |
| SDI (unrounded)               | 267.08 |
| FS * Time Area (Ft * Min)     | 27.3   |
| Smoke Area (% * Min)          | 192.3  |
| Total Fuel Burned (Cubic Ft.) | 44.05  |
| Max Flame Front Advance (Ft.) | 6.3    |
| Time to Max Flame Front (sec) | 351    |
| Max Temp At Exposed T/C (°F)  | 606    |
| Time To Max Temp (sec)        | 391    |

| <b>TEST OBSERVATIONS</b>     |  |
|------------------------------|--|
| Melting Observed             | 0:17   |
| Ignition Time                | 0:19   |
| Flaming Drops Observed       | 0:21   |
| Floor Flames Observed        | 5:26   |
| After Flame                  | 0:60+  |
| Observations After the Test: |  |
| 0 – 6 ft.                    | The specimen was consumed.                               |
| 6 – 15 ft.                   | The specimen was melted to the floor.                    |
| 15 – 20 ft.                  | The specimen was slightly melted and heavily discolored. |
| 20 – 24 ft.                  | The specimen was heavily discolored.                     |

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### SECTION 9 PHOTOGRAPHS



**Photo No. 1**  
**Exposed Surface of the Test Specimen (Pre-test)**



**Photo No. 2**  
**Unexposed Surface of the Test Specimen (Pre-test)**

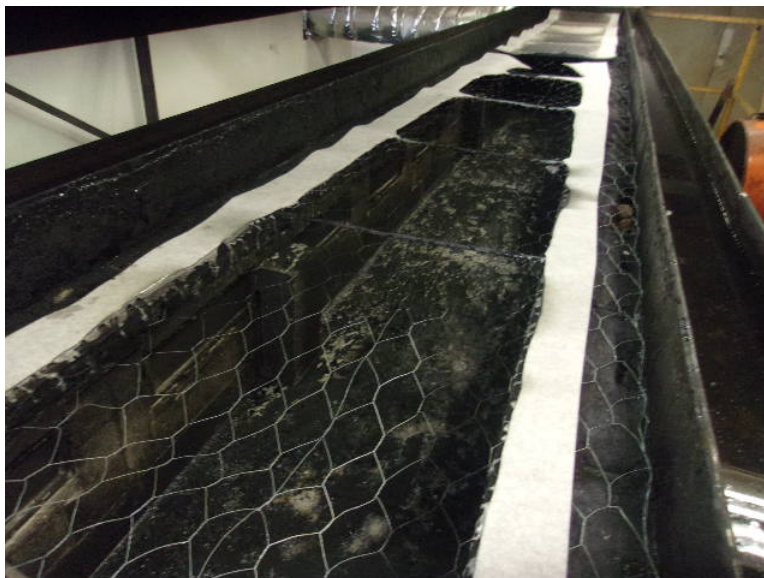
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**Photo No. 3**  
**Unexposed Surface of the Test Specimen (Post-test)**



**Photo No. 4**  
**Exposed Surface of the Test Specimen (Post-test)**



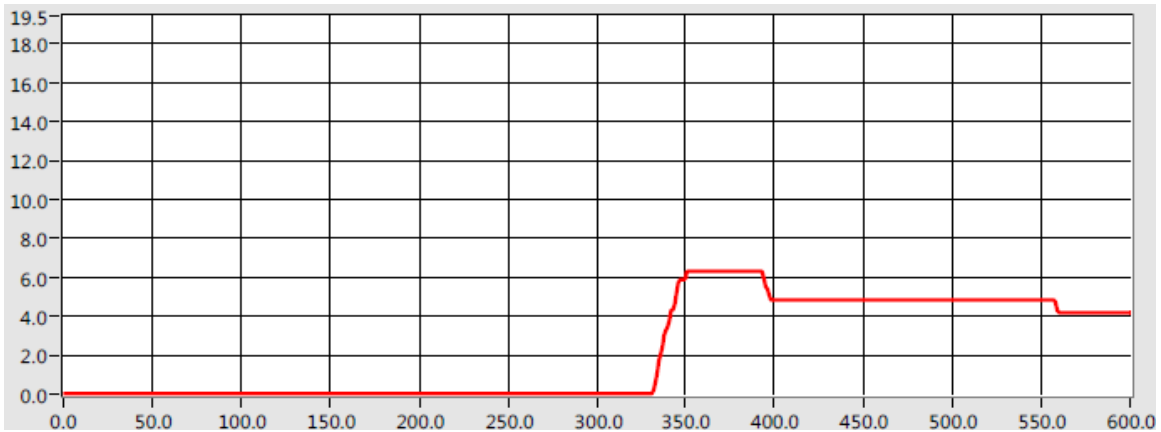
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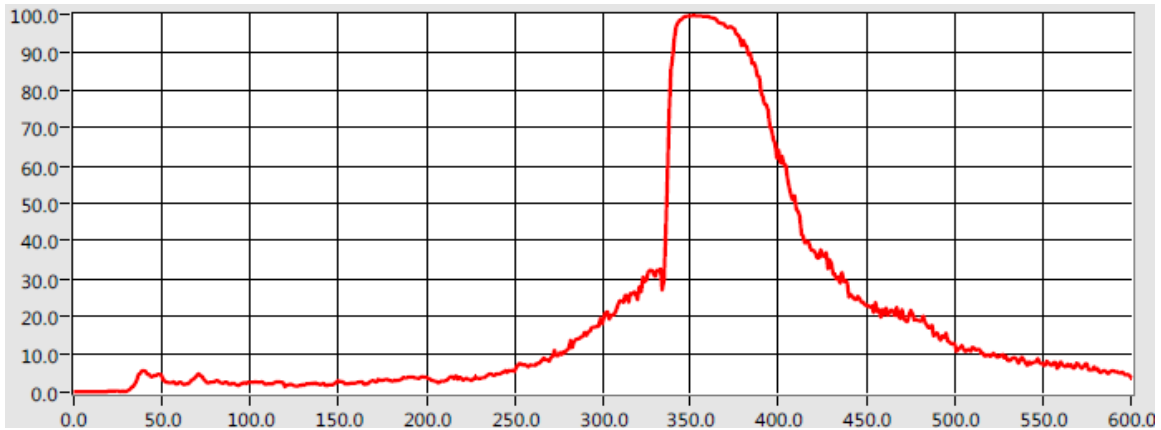
Date: 4/19/18

### SECTION 10

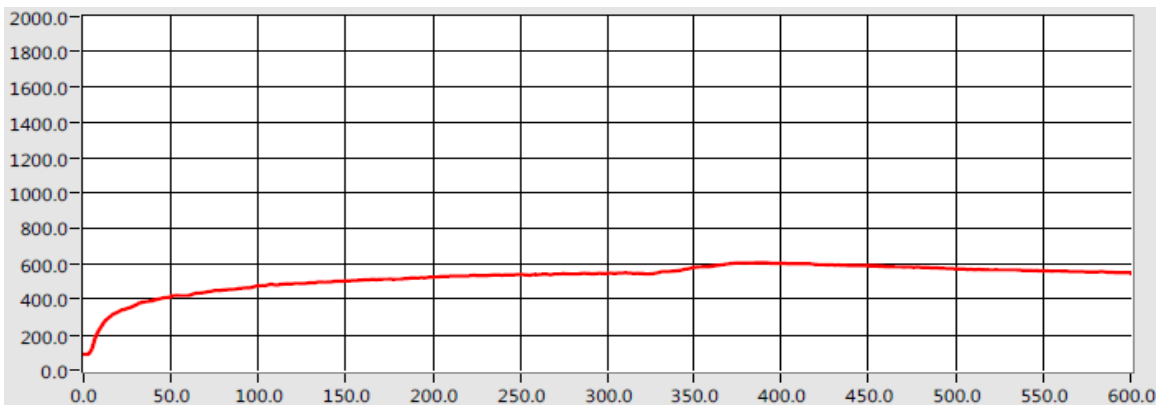
#### GRAPHS



Graph No. 1 - Flame Spread Distance Versus Time



Graph No. 2 - Light Obscuration Versus Time



Graph No. 3 - Tunnel Air Temperature Versus Time



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### SECTION 11 REVISION LOG

| REVISION # | DATE    | PAGES | REVISION              |
|------------|---------|-------|-----------------------|
| 0          | 4/19/18 | 10    | Original Report Issue |