



**CRANE COMPOSITES** CLIENT:

Attn: Mike Buhr

23525 W. Eames Street Channahon, IL 60410

Test Report No: TJ1722-4-R Date: November 27, 2013

SAMPLE ID: The Client submitted and identified the following test material as "Glasbord FX .10".

**SAMPLING DETAIL:** Test samples were submitted to the laboratory directly by the client. No special

sampling conditions or sample preparation were observed by QAI.

DATE OF RECEIPT: Samples were received at QAI facilities on November 14, 2013

**TESTING PERIOD:** November 18, 2013

**AUTHORIZATION: Retested Samples** 

**TEST REQUESTED:** Perform standard flame spread and smoke density developed classification tests on

> the sample supplied by the Client in accordance with ASTM Designation E84-12, "Standard Method of Test for Surface Burning Characteristics of Building Materials". The foregoing test procedure is comparable to UL 723, ANSI/NFPA No. 255, and UBC

No. 8-1.

**TEST RESULTS:** Flame Spread **Smoke Developed** 

> 15 70

The material tested resulted in a Class A. Detailed test results are presented in the **CLASSIFICATION:** 

subsequent pages of this report

**REVISION:** The sample identification was changed on page 1 and 2. The thickness of the tested

sample was corrected on page 2.

Signed for and on behalf of **Prepared By** QAI Laboratories, Inc.

J. Brian McDonald **Operations Manager** 

Christopher Clark Fire Test Technician



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**PREPARATION AND CONDITIONING:** The sample was submitted in six 4 foot long panels measuring 24 inches wide and approximately 0.100 inches thick. The sample material was placed into conditioning at 73°F (±5°F) and 50% (±5%) relative humidity until day of testing.

# **E 84 TEST DATA SHEET:**

**MOUNTING METHOD:** The sample was supported during testing by 2" hexagonal mesh poultry netting running the length of the test chamber and ½" round metal rods placed at 2' intervals across the width of the test chamber.

**CLIENT**: Crane Composites **DATE**: November 18, 2013

SAMPLE: Glasbord FX .10

IGNITION: 0 minutes, 47 seconds

FLAME FRONT: 4 feet maximum

TIME TO MAXIMUM SPREAD: 4 minutes, 00 seconds

TEST DURATION: 10 minutes, 00 seconds

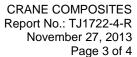
**SUMMARY:** FLAME SPREAD: 15 (13.9 unrounded) SMOKE DEVELOPED: 70 (72 unrounded)

### **OBSERVATIONS:**

Sample initially started to discolor and warp prior to ignition. Soon following ignition sample displayed signs of charring, flaking, and shrinking away from flame. Steady flame spread to window 4 steadily throughout the test. Minimal afterflame was noted at test completion.

## **CALIBRATION DATA:**

Time to Ignition of Last Red Oak (sec): 57 Red Oak Smoke Area (%A\*Min): 111 Total Fuel Burned (ft³) 59.68





# **SUMMARY OF ASTM E84 RESULTS:**

Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5. Smoke Density values over 200 are rounded to the nearest figure divisible by 50.

In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

NFPA CLASS	<b>IBC CLASS</b>	FLAME SPREAD	SMOKE DEVELOPED
		0 through 25	Less than or equal to 450
В	В	26 through 75	Less than or equal to 450
С	С	76 through 200	Less than or equal to 450

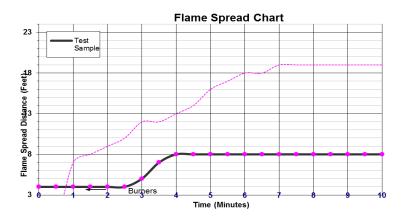
# **BUILDING CODES CITED:**

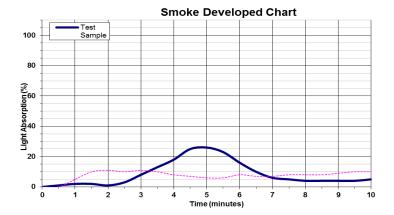
- 1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 2006 Edition.
- 2. International Building Code, 2006 Edition, Chapter 8, Interior Finishes, Section 803.

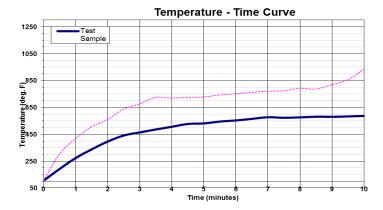
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