



CLIENT: CRANE COMPOSITES

Attn: Mike Buhr

23525 W. Eames Street Channahon, IL 60410

Test Report No: TJ1568-3 Date: October 3, 2013

SAMPLE ID: The Client submitted and identified the following test material as "Glasbord FSI .075".

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 September 18, 2013

TESTING PERIOD: September 24, 2013

AUTHORIZATION: Proposal FB-2013-090901 approved on September 11, 2013

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: <u>Flame Spread</u> <u>Smoke Developed</u>

25 75

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

subsequent pages of this report

Prepared By

Jared Weise

Fire Test Technician

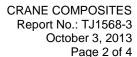
Signed for and on behalf of QAI Laboratories, Inc.

J. Brian McDonald Operations Manager

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THE RESULTS OF THIS REPORT PERTAIN ONLY TO THE SPECIFIC SAMPLE(S) EVALUATED.





PREPARATION AND CONDITIONING: The sample was submitted in six 4 foot long panels measuring 24 inches wide and approximately 0.075 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 self-supporting and placed along the ledges of the tunnel during testing. No additional mounting method was used

CLIENT: Crane Composites DATE: September 24, 2013

SAMPLE: Glasbord FSI .075

IGNITION: 0 minutes, 33 seconds

FLAME FRONT: 6 feet maximum

TIME TO MAXIMUM SPREAD: 5 minutes, 00 seconds

TEST DURATION: 10 minutes, 00 seconds

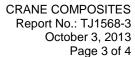
SUMMARY: FLAME SPREAD: 25 (25.1 unrounded) SMOKE DEVELOPED: 75 (74 unrounded)

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 and smoke generation noted for duration of test. Some 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	IBC CLASS	FLAME SPREAD	SMOKE DEVELOPED
Α	A	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

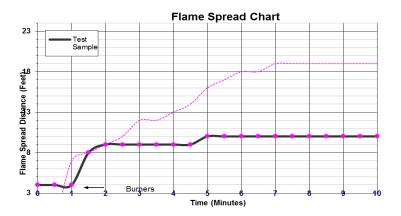
BUILDING CODES CITED:

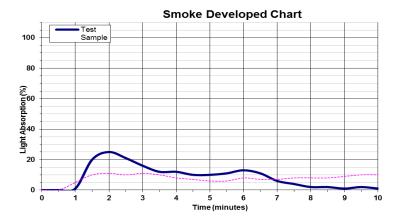
- 1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 2006 Edition.
- 2. International Building Code, 2006 Edition, Chapter 8, Interior Finishes, Section 803.

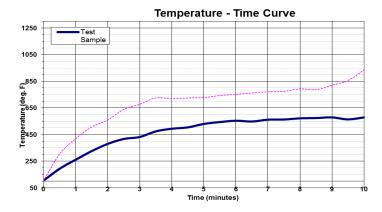
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END OF REPORT

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