

CLIENT: CRANE COMPOSITES
23525 W. Eames St.
Channahon IL 60404

Test Report No: TJ2897	Date: May 5, 2015
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SAMPLE ID: The client identified the following test material as “GLASBORD PWI .12”

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 April 28, 2015

TESTING PERIOD: May 5, 2015

AUTHORIZATION: Signed work order VB-2015-042105


TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-15, "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>
	85	250

CLASSIFICATION: The material resulted in a class “C”. Detailed test results are presented in the subsequent pages of this report

Prepared By

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Fire Test Technician

Signed for and on behalf of
QAI Laboratories, Inc.

J. Brian McDonald
Operations Manager

PREPARATION AND CONDITIONING: The sample was submitted in six panels 4 feet long measuring 22 inches wide and approximately .090" 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 ¼" round metal rods placed at 2' intervals across the width of the test chamber, with cement board place between the sample and tunnel lid.

CLIENT: Crane Composites **DATE:** May 5, 2015

SAMPLE: Glasbord PWI .12

IGNITION: 1 minutes, 20 seconds

FLAME FRONT: 19 feet maximum

TIME TO MAXIMUM SPREAD: 4 minutes, 30 seconds

TEST DURATION: 10 minutes, 00 seconds

SUMMARY: FLAME SPREAD: 85 (85.1 unrounded) **SMOKE DEVELOPED:** 250 (259 unrounded)

OBSERVATIONS:

Cracking was seen at 1 minute 10 seconds, with sustained ignition at 1 minute 20 seconds. Flame spread was rapid and had reached the end of the tunnel at 4 minutes 20 seconds. There was no after burn or after-glow at the end of the ten minute test.

CALIBRATION DATA:

Time to Ignition of Last Red Oak (sec):	54
Red Oak Smoke Area (%A* Min):	109.7
Total Fuel Burned (ft ³)	50.21

SUMMARY OF ASTM E84 RESULTS:

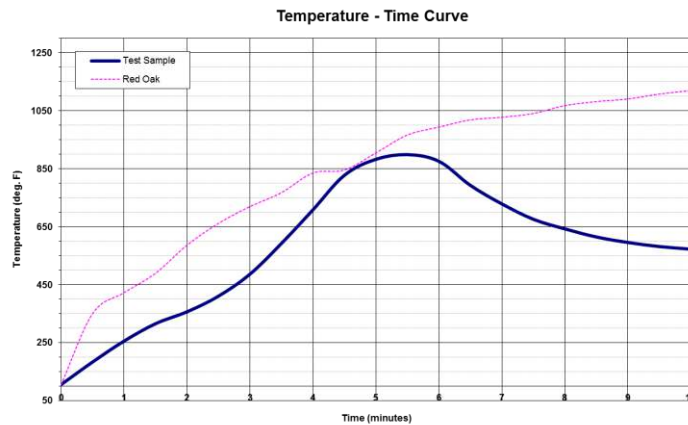
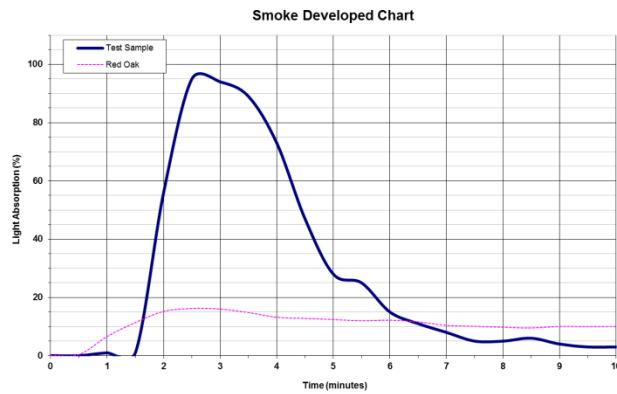
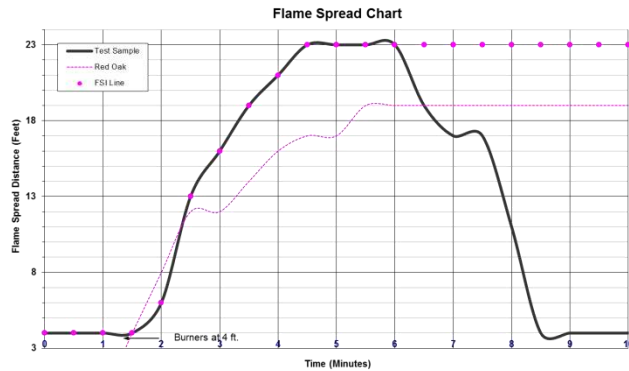
Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5. Smoke Density values over 200 are rounded to the nearest figure divisible by 50.

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

<u>NFPA CLASS</u>	<u>IBC CLASS</u>	<u>FLAME SPREAD</u>	<u>SMOKE DEVELOPED</u>
A	A	0 through 25	Less than or equal to 450
B	B	26 through 75	Less than or equal to 450
C	C	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.



*****END OF TEST REPORT*****

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