

CLIENT: **FLAME SEAL**
15200 West Drive
Houston, TX 77053

Test Report No: TJ4844-2-R1	Date: July 25, 2017 Revision Date: September 26, 2018
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SAMPLE ID: The client identified the following test material as “**Flame Seal 84**”

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. The spraying of samples was witnessed by QAI Laboratories inspector Paul Lampkins on June 27, 2017.

DATE OF RECEIPT: Samples were received at QAI facilities on June 27, 2017


TESTING PERIOD: July 19, 2017


AUTHORIZATION: Signed work order 17SP061401

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>
	0	10

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

Prepared By

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Project Engineer

Signed for and on behalf of
QAI Laboratories, Inc.

J. Brian McDonald
Operations Manager

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PREPARATION AND CONDITIONING: The sample was submitted in four 6 foot long panels measuring 24 inches wide and 9 wet mils 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 with the foam side exposed to the burner flames. The samples were butted end to end in the test chamber, with cement board placed between the lid and sample.

CLIENT: Flame Seal **DATE:** July 19, 2017

SAMPLE: Flame Seal 84

IGNITION: 0 minutes, 45 seconds

FLAME FRONT: 0 foot maximum

TIME TO MAXIMUM SPREAD: 0 minutes, 00 seconds

TEST DURATION: 10 minutes, 00 seconds

SUMMARY: FLAME SPREAD: 0 (0.0 unrounded)

SMOKE DEVELOPED: 10 (8 unrounded)

OBSERVATIONS:

The sample began to display signs of bubbling and simultaneously sustained ignition 45 seconds from the start of the test. The surface of the sample began charring at 57 seconds. The material self extinguished at the conclusion of the test.

CALIBRATION DATA:

Time to Ignition of Last Red Oak (sec):	39
Red Oak Smoke Area (%A*Min):	111.0
Total Fuel Burned (ft ³)	61.0

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:

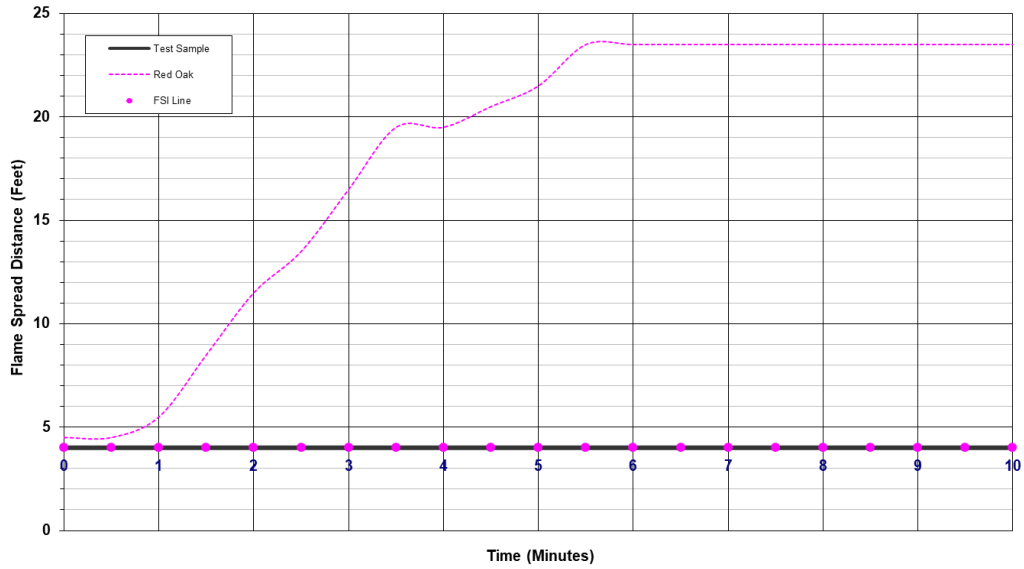
<u>NFPA CLASS</u>	<u>IBC CLASS</u>	<u>FLAME SPREAD</u>	<u>SMOKE DEVELOPED</u>
A	A	0 through 25	Less than or equal to 450
B	B	26 through 75	Less than or equal to 450
C	C	76 through 200	Less than or equal to 450

BUILDING CODES CITED:

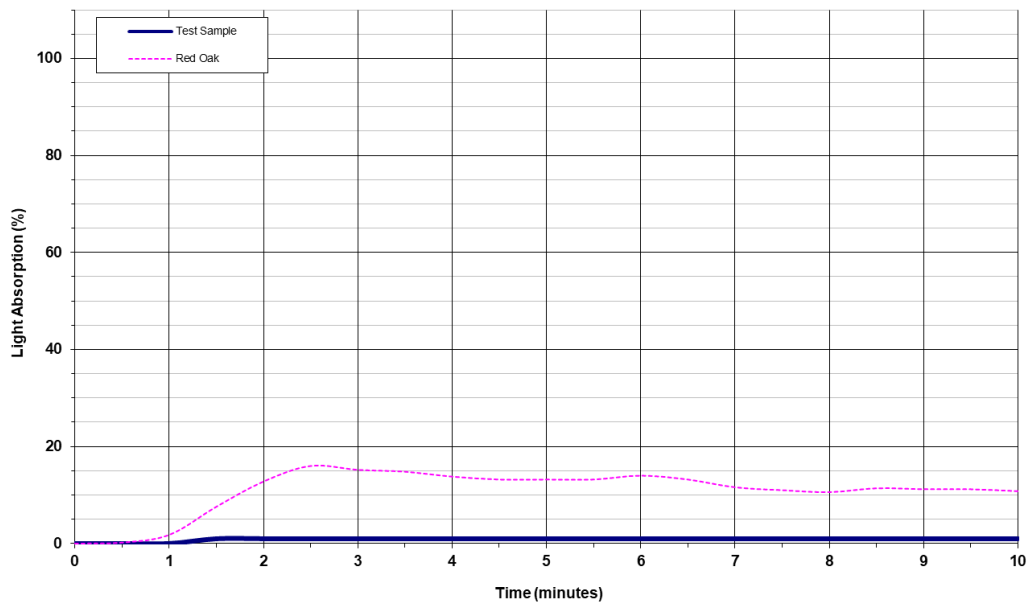
1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 2006 Edition.
2. International Building Code, 2006 Edition, Chapter 8, Interior Finishes, Section 803.

Graphical Data

Flame Spread Chart

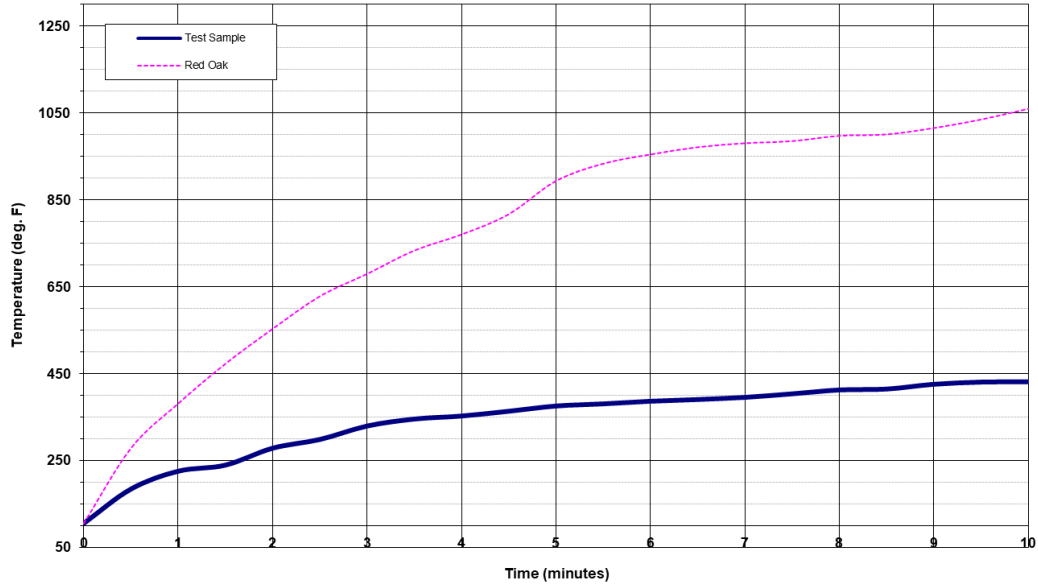


Smoke Developed Chart



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Temperature - Time Curve



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Post Test Images



Revision History

Revision Date: September 26, 2018

The Sample ID was changed from "FS TBP 9 mils" to "Flame Seal 84"

This report TJ4844-2-R1 supersedes and replaces any previous reports under the name TJ4844-2.

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