QAI LABORATORIES
CERTIFICATION TESTING INSPECTION

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CLIENT: **MACTAC**
4560 Darrow Rd
Stow, Ohio 44224

Test Report No: TJ3586-9	Date: March 18, 2016

SAMPLE ID: The client identified the following test material as **"WALLCHALKER"**

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 February 17, 2016

TESTING PERIOD: March 16, 2016

AUTHORIZATION: Signed work order SP-2016-020402

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-13, "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
630	30

CLASSIFICATION: The material results could not be classified. Detailed test results are presented in the subsequent pages of this report

Prepared By

Jeff Foster
Fire Test Technician

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 two panels 10 feet long and one 4 foot panel measuring 23 inches wide and average / nominal .0100" inches thick. The sample material was placed into conditioning at 73ºF (±5ºF) 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: Mactac **DATE:** March 18, 2016

SAMPLE: WallCHALKER

IGNITION: 0 minutes, 06 seconds

FLAME FRONT: 19 feet maximum

TIME TO MAXIMUM SPREAD: 0 minutes, 30 seconds

TEST DURATION: 10 minutes, 00 seconds

SUMMARY: FLAME SPREAD: 630 (628.8 unrounded) **SMOKE DEVELOPED:** 30 (29 unrounded)

OBSERVATIONS:

Shrinking and melting were both seen at 2 seconds, and sustained ignition seen at 6 seconds. Flame spread was quick and the end of the tunnel at 17 seconds before regressing at 1 minute. Very light smoke was witnessed. No after-burn was seen at the conclusion 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

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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
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.

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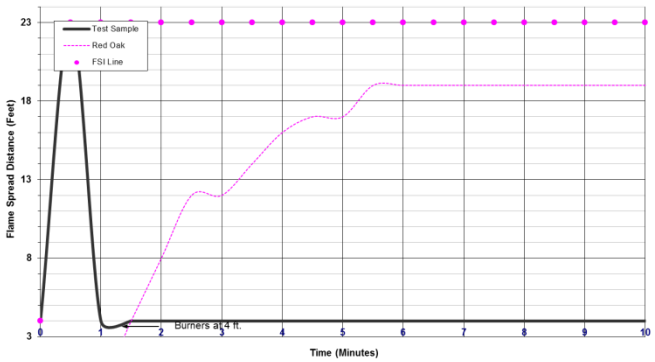
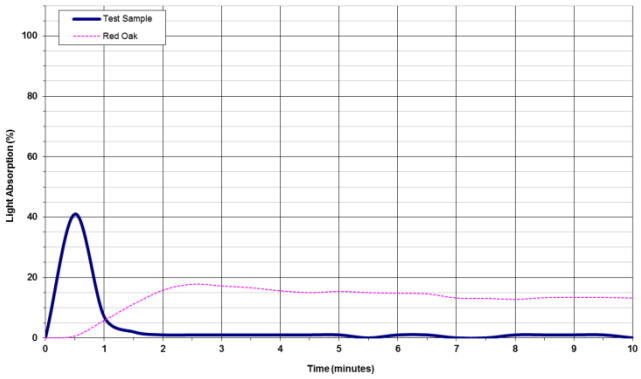
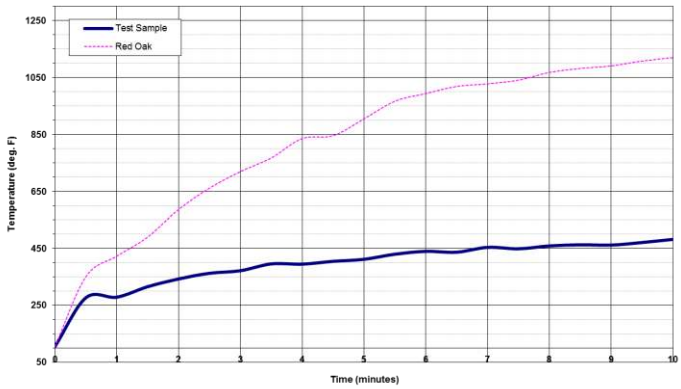
Flame Spread Chart



Smoke Developed Chart



Temperature - Time Curve



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PHOTOS: AFTER TEST I

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

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