

CLIENT: WESTECH BUILDING PRODUCTS

7451 Indiana 62
Mount Vernon, IN 47620

Test Report No: RJ4314-1	Date: October 21, 2015
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SAMPLE ID: Test samples were identified as: Trugrain made with Resysta Material – Finished.

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 on October 2, 2015.

TESTING PERIOD: October 15, 2015.

AUTHORIZATION: Testing authorized by and witnessed by Beau Buente.

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>
	10	450

Detailed test results are presented in the subsequent pages of this report

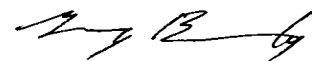
CONCLUSION: The submitted material meets the requirements for a "Class A" Flame Spread. See classification requirements on page 2.

Prepared By



Brian Ortega
Test Technician

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



Greg Banasky
Senior Test Technician

PREPARATION: The sample material was submitted in sufficient quantity to form a specimen 24" wide by 24' feet long conforming to test chamber dimensions. The sample was supported during testing by 2" hexagonal mesh poultry netting running the length of the test chamber and 1/4" round metal rods placed at two foot intervals across the width of the test chamber.

CONDITIONING: The test specimen was conditioned to a constant weight at a temperature of $73.4 \pm 5^{\circ} \text{F}$ ($23 \pm 2.8^{\circ} \text{C}$) and a relative humidity of $50 \pm 5 \%$.

CEMENT BOARD PLACEMENT: The 1/4" cement boards were placed between the test specimen and the chamber lid

E 84 TEST DATA SHEET:

CLIENT: WESTECH BUILDING PRODUCTS **Date:** 10-15-15

SAMPLE: Trugrain made with Resysta Material – Finished

FLAME SPREAD:

IGNITION: 1 minute, 12 seconds

FLAME FRONT: 3 feet maximum

TIME TO MAXIMUM SPREAD: 3 minutes

TEST DURATION: 10 minutes

CALCULATION: $22.88 \times 0.515 = 11.78$

SUMMARY: FLAME SPREAD: 10 **SMOKE DEVELOPED:** 450 (442.05)

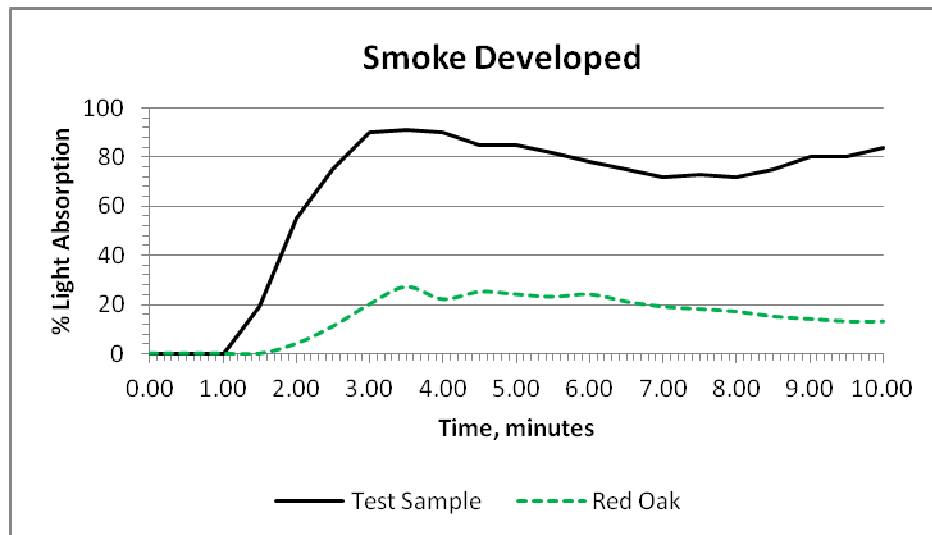
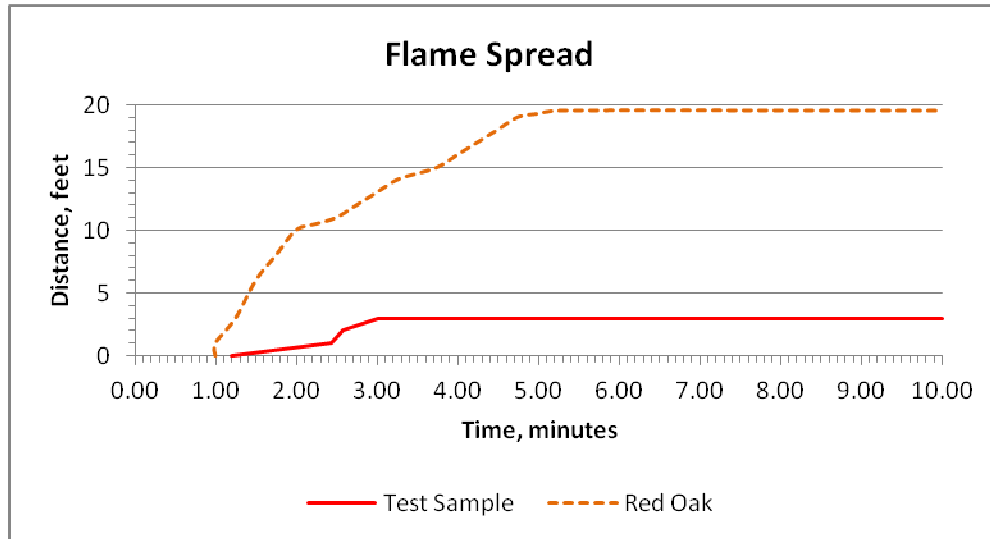
SUMMARY OF ASTM E84 RESULTS: Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5. Smoke Density values over 200 are rounded to the nearest figure divisible by 50.

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".
2. International Building Code, Chapter 8, Interior Finishes, Section 803.



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