



8385 White Oak Avenue
Rancho Cucamonga, CA 91730
909.483.0250 ph. | 909.483.0336 fx.

CLIENT: TILE TECH INC
4730 East 26th Street
Vernon, CA 90058

Test Report No: RJ3515-1	Date: September 23, 2014
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SAMPLE ID: The following test material was identified as Ipe Deck Boards.

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 September 15, 2014.

TESTING PERIOD: September 23, 2014.

AUTHORIZATION: Testing authorized by Ronnie Tabibnia.

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with **ASTM Designation E84-14**, "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>
	20	400

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

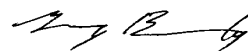
CONCLUSION: The submitted material meets the requirements for a "Class A" Flame Spread. See classification requirements on page 2.

Prepared By



Brian Ortega
Test Technician

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



Greg Banasky
Senior Test Technician

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PREPARATION: Sufficient sample material was submitted to conform to tunnel test dimensions, 22" wide by 24' feet long.

CONDITIONING: The test specimen was conditioned to a constant weight at a temperature of 73.4 ± 5° F (23 ± 2.8° C) and a relative humidity of 50 ± 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: TILE TECH INC **DATE:** 09/23/14

SAMPLE: Ipe Deck Boards

FLAME SPREAD:

IGNITION: 1 minute, 15 seconds.

FLAME FRONT: 9 feet maximum.

TIME TO MAXIMUM SPREAD: 9 minutes, 47 seconds

TEST DURATION: 10 minutes.

CALCULATION: 38.35 x 0.515 = 19.75

OBSERVATIONS: Charring.

SUMMARY: FLAME SPREAD: 20

SMOKE DEVELOPED: 400

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:

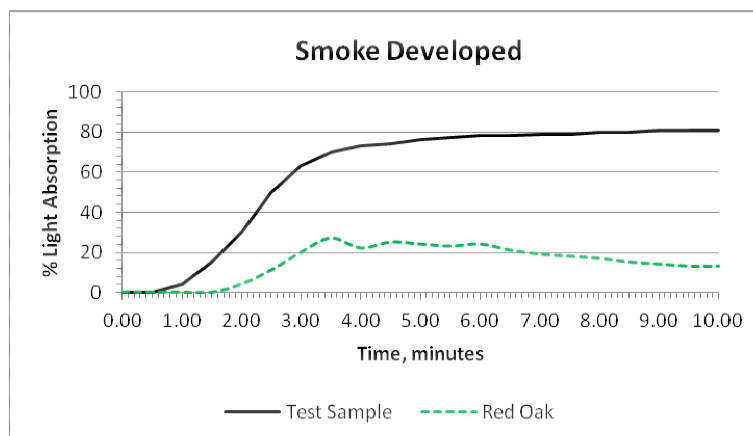
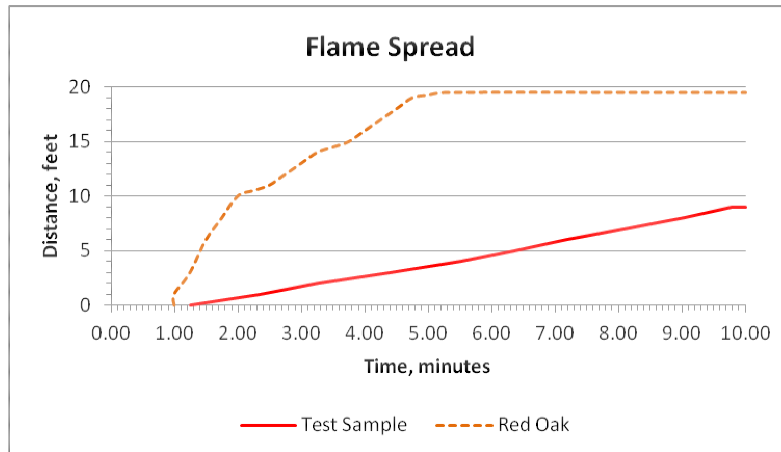
1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code".
2. International Building Code, Chapter 8, Interior Finishes, Section 803.

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International Accreditation Service
CERTIFICATE OF ACCREDITATION

This is to signify that

QAI LABORATORIES
8385 WHITE OAK AVENUE
RANCHO CUCAMONGA, CALIFORNIA 91730

Testing Laboratory TL-220
(Revised June 24, 2014)

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*, and has been accredited, commencing April 17, 2014, for the test methods listed in the approved scope of accreditation.


Patrick V. McCullen
Vice President


C.P. Ramani, P.E.
President

(see attached scope of accreditation for fields of testing and accredited test methods)

Print Date: 06/24/2014

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at www.iasonline.org for current accreditation information, or contact IAS directly at (562) 364-8201.

