

CLIENT: INTERNATIONAL MARKET STRATEGIES, INC./ BLUE STAR PRODUCTS USA

3105 S.E. Carlton Street
Portland, OR 97202
Mike Moscoe

Test Report No: RJ2932-1

Date: January 14, 2014

SAMPLE ID: The Client submitted and identified the following test material as Solid wood decking and trim boards, kiln dried 10 - 12% MC; surfaced four sides, 3/4" net thickness x 5 1/2" net width; made from Blue Star brand Dark Red meranti lumber (Shorea platyciadus spp.)

SAMPLING DETAIL: Test samples and materials were submitted to the laboratory directly by the client.

DATE OF RECEIPT: Samples and materials were received at QAI on January 2, 2014.

TESTING PERIOD: January 7, 2014.

AUTHORIZATION: Testing authorized by Mike Moscoe.

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-13a "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>
	25	45

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

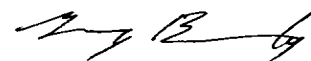
CONCLUSION: The submitted material meets the requirements for a "Class A" Flame Spread. See classification requirements on page 2.

Prepared By



Brian Ortega
Test Technician

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



Greg Banasky
Senior Test Technician



PREPARATION AND CONDITIONING: The sample material was submitted in fifty-two pieces, 24" wide by 5 1/2" 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: INTERNATIONAL MARKET STRATEGIES, INC./ BLUE STAR PRODUCTS USA **Date:** 01-07-14

SAMPLE: Solid wood decking and trim boards, kiln dried 10 - 12% MC; surfaced four sides, 3/4" net thickness x 5 1/2" net width; made from Blue Star brand Dark Red meranti lumber (Shorea platyciados spp.)

FLAME SPREAD:

IGNITION: 1 minute, 22 seconds

FLAME FRONT: 7 feet maximum

TIME TO MAXIMUM SPREAD: 6 minutes, 8 seconds

TEST DURATION: 10 minutes.

CALCULATION: 47.39 x 0.515 = 24.41

OBSERVATIONS: Surface discoloration was observed during testing.

SUMMARY: FLAME SPREAD: 25 SMOKE DEVELOPED: 45

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.

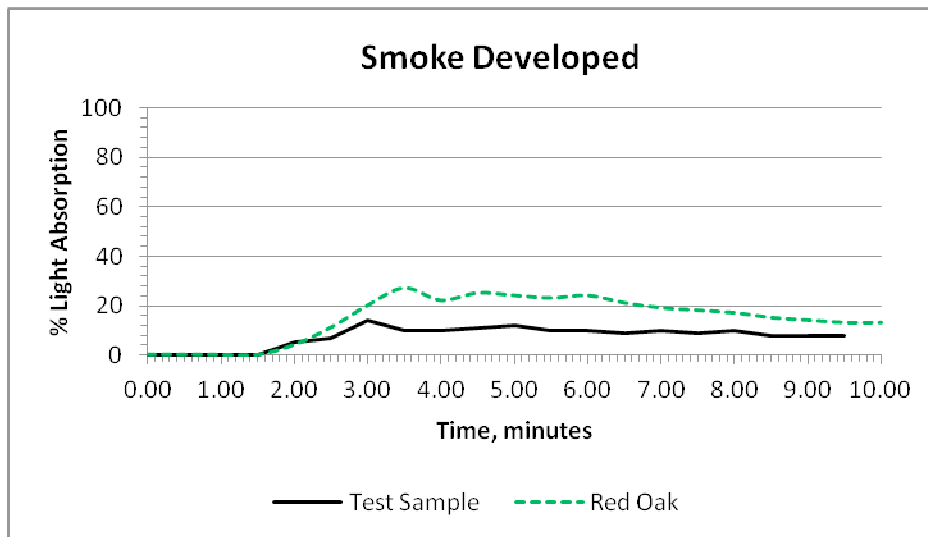
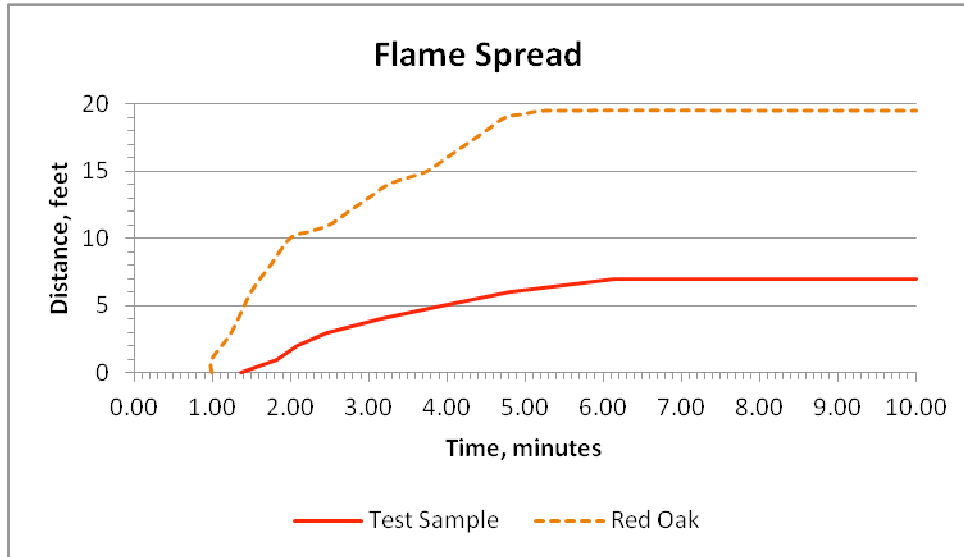
In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

<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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