QAI LABORATORIES
CERTIFICATION TESTING INSPECTION

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CLIENT: KAYU INTERNATIONAL
P.O. box 368
West Linn, OR 97068
Natalie Smith

Test Report No: RJ1505-1	Date: August 23, 2011

SAMPLE ID: The test samples are identified as KAYU Batu Decking.

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 August 22, 2011.

TESTING PERIOD: August 23, 2011.

AUTHORIZATION: Testing authorized by Gina Schaefer.

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-10 "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
20	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
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Signed for and on behalf of QAI Laboratories, Inc.

Greg Banasky
Senior Technician
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PREPARATION AND CONDITIONING: The samples were submitted in pieces, 5 1/2" wide by 72" long by 3/4" thick. The pieces were fastened together to form panels, 22" wide by 72" long. Four of these panels were used for the test. The sample panels were conditioned at a temperature of 73.4 ± 5ºF and 50 ± 5 % RH prior to testing.

E 84 TEST DATA SHEET:

CLIENT: KAYU International **DATE:** 08/23/11

SAMPLE: KAYU Batu Decking

FLAME SPREAD:

IGNITION: 1 minute, 24 seconds

FLAME FRONT: 6 feet maximum

TIME TO MAXIMUM SPREAD: 7 minutes, 12 seconds

TEST DURATION: 10 minutes

CALCULATION: 42.27 X 0.515 = 21.77

SUMMARY: FLAME SPREAD: 20 **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:

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.