

**CLIENT: THEA, INC.**  
**DISTRIBUTOR ROXIPAN US**  
4564 Via Maria  
Santa Barbara, CA 93111  
Myriam Doussineau

<b>Test Report No: RJ2573-1</b>	<b>Date: May 31, 2013</b>
---------------------------------	---------------------------

**SAMPLE ID:** The test samples are identified as specimens of ROXIWALL Quartz Dark Gray 21.

**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 May 24, 2013

**TESTING PERIOD:** May 29, 2013.

**AUTHORIZATION:** Testing authorized by Myriam Doussineau.

**TEST REQUESTED:** Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-12c, "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.

<b>TEST RESULTS:</b>	<b><u>Flame Spread</u></b>	<b><u>Smoke Developed</u></b>
	35	250

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

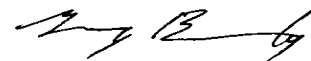
**CONCLUSION:** The submitted material meets the requirements for a "Class B" Flame Spread. See classification requirements on page 2.

**Prepared By**



Brian Ortega  
Test Technician

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



Greg Banasky  
Senior Test Technician



**PREPARATION AND CONDITIONING:** The sample material was submitted in sufficient quantity to form a specimen, 22" wide by 24' long. The pieces were battened together for testing.

**E 84 TEST DATA SHEET:**

**CLIENT:** THEA, INC. DISTRIBUTOR ROXIPAN US

**DATE:** 05/29/13

**SAMPLE:** ROXIWALL Quartz Dark Gray 21

**FLAME SPREAD:**

**IGNITION:** 1 minute, 55 seconds

**FLAME FRONT:** 15 feet maximum.

**TIME TO MAXIMUM SPREAD:** 9 minutes, 41seconds.

**TEST DURATION:** 10 minutes

**CALCULATION:** 66.77 x 0.515 = 34.38

**SUMMARY: FLAME SPREAD:** 35 **SMOKE DEVELOPED:** 250 (253.83)

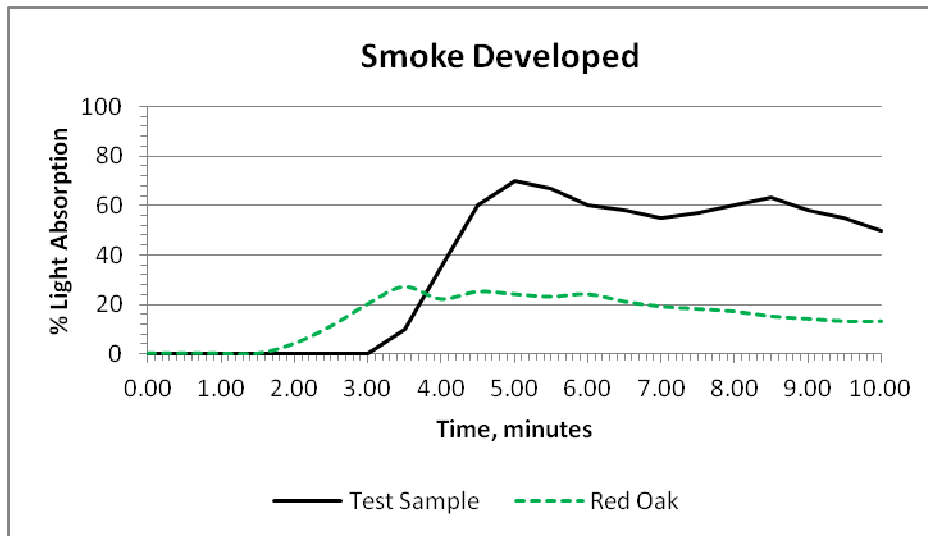
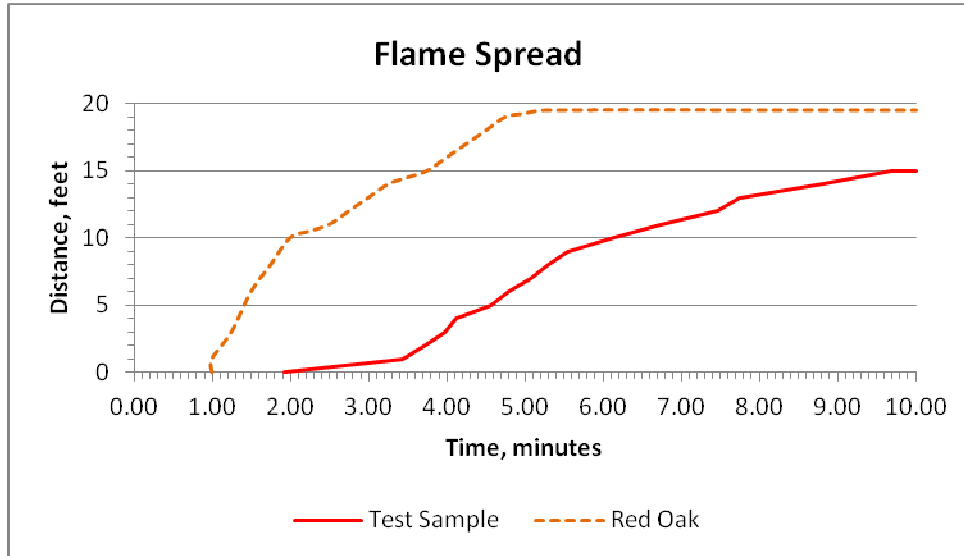
**SUMMARY OF ASTM E84 RESULTS:** Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5. Smoke Density values over 200 are rounded to the nearest figure divisible by 50.

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", 2006 Edition.
2. International Building Code, 2006 Edition, Chapter 8, Interior Finishes, Section 803.



THIS REPORT IS THE CONFIDENTIAL PROPERTY OF THE CLIENT ADDRESSED. THE REPORT MAY ONLY BE REPRODUCED IN FULL. PUBLICATION OF EXTRACTS FROM THIS REPORT IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM QAI. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED FOR THE INDIVIDUAL PROJECT FILE REFERENCED. THE RESULTS OF THIS REPORT PERTAIN ONLY TO THE SPECIFIC SAMPLE(S) EVALUATED.