

**CLIENT:**

Lightblocks Inc.  
164 Burke Street  
Nashua, NH 03060

**Test Report No: TJ0655-1**

**Date: June 29, 2012**

**SAMPLE ID:** The Client submitted and identified the following test material as 1/8" Acrylic Mirror, fire retardant sheet transfer tape 1/2" FR MDF, Fire Retardant coating; front surface: matte finish with resin coat

**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 June 13, 2012

**TESTING PERIOD:** June 27, 2012

**AUTHORIZATION:** Signed Work Order by Nancy Hughes of Lightblocks. PO# 1218.

**TEST REQUESTED:** Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-11, "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>
	70	450

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

**Prepared By**

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



Gregory Ertel  
Fire Test Technician



J. Brian McDonald  
Operations Manager



**PREPARATION AND CONDITIONING:** The sample material was submitted in sufficient quantity to form a specimen 21" wide by 24' long. 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.

**E 84 TEST DATA SHEET:**

**CLIENT:** Lightblocks **DATE:** June 27, 2012

**SAMPLE:** 1/8" Acrylic Mirror, fire retardant sheet transfer tape 1/2" FR MDF, Fire Retardant coating; front surface: matte finish with resin coat

**FLAME SPREAD:**

**IGNITION:** 1 minutes, 02 seconds

**FLAME FRONT:** 16 feet maximum

**TIME TO MAXIMUM SPREAD:** 9 minutes, 00 seconds

**TEST DURATION:** 10 minutes, 00 seconds

**SUMMARY: FLAME SPREAD: 70 SMOKE DEVELOPED: 450(430)**

**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.

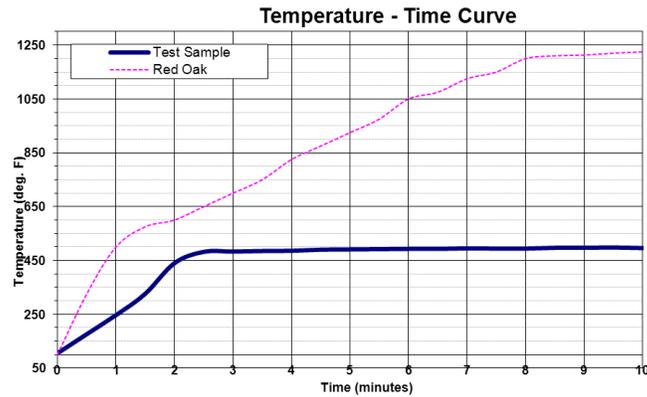
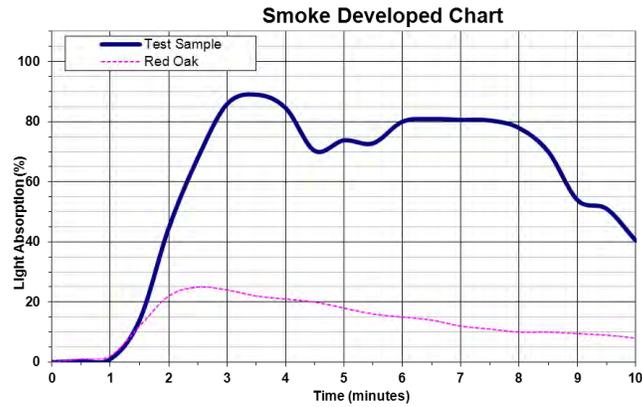
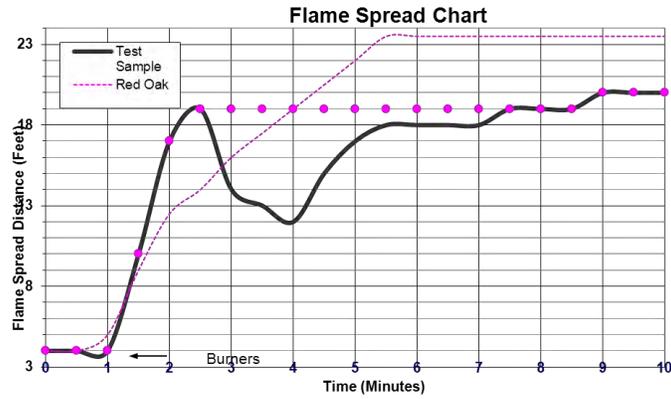
In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

<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.

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