



CLIENT: Spirit Acoustics, Inc.
103 Sparta Road
Stanhope, NJ 07874
Attn: Jerry Morgan

Test Report No: 530217

Date: January 30, 2006

The following sample was submitted by the Client as: 1" thick Fiberglass Panel used as a Light Fixture Enclosure

DATE OF RECEIPT: January 20, 2006

TESTING PERIOD: January 30, 2006

AUTHORIZATION: Order Confirmation Number 530217, dated January 23, 2006

TEST REQUESTED: The submitted sample was tested for Surface Burning Characteristics in accordance with the procedures outlined in ASTM E84-05.

TEST RESULTS: Continued on the following pages

PREPARED BY:

Arthur D. Fiorino, Technician
Fire Technology

SIGNED FOR AND ON BEHALF OF
SGS U.S. TESTING COMPANY INC.

John Lomash, Manager
Hardlines Operations

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CLIENT: Spirit Acoustics, Inc.

RESULTS:

INTRODUCTION:

This report presents test results of Flame Spread and Smoke Developed Values per ASTM E-84-05. The report also includes Material Identification, Method of Preparation, Mounting and Conditioning of the specimens.

The tests were performed in accordance with the specifications set forth in ASTM E-84-05, Standard Test Method for Surface Burning Characteristics of Building Materials, both as to equipment and test procedure. This test procedure is similar to UL-723, ANSI No. 2.5, NFPA No. 255 and UBC 42-1.

The test results cover two parameters: Flame Spread and Smoke Developed Values during a 10-minute fire exposure. Inorganic cement board and red oak flooring are used as comparative standards and their responses are assigned arbitrary values of 0 and 100, respectively.

PREPARATION AND CONDITIONING:

Six pieces of sample supplied by the client was placed into the fire chamber end to end to form a 21 inch wide X 24 foot long specimen for testing. Inorganic cement boards were placed over the sample prior to testing as a means of protecting the interior of the tunnel lid.

The sample was conditioned at $73^{\circ} \pm 5^{\circ}$ Fahrenheit and $50 \pm 5\%$ relative humidity.

TEST PROCEDURE:

The tunnel was thoroughly pre-heated by burning natural gas. When the brick temperature, sensed by a floor thermocouple, had reached the prescribed 105° Fahrenheit $\pm 5^{\circ}$ Fahrenheit level, the sample was inserted in the tunnel and test conducted in accordance with the standard ASTM E-84-05 procedures.

The operation of the tunnel was checked by performing a 10-minute test with inorganic board on the day of the test.



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RESULTS:

TEST RESULTS:

The test results, calculated in accordance with ASTM E-84-05 for Flame Spread and Smoke Developed Values are as follows:

Test Specimen : 1" thick Fiberglass Panel used as a Light Fixture Enclosure
Flame Spread Index* : 15
Smoke Developed Value* : 5

*Rounded off to the nearest 5 units. Graphs of the Flame Spread, Smoke Developed and Time-Temperature are shown on the attached charts at the end of this report.

OBSERVATIONS:

Ignition was noted at 10 seconds followed by:

- Charring
- Melting (scrim)
- Flaking
- Flashing
- Flaking Embers
- Slight Afterglow

RATING:

The National Fire Protection Association Life Safety Code 101, Section 6-5.3, "Interior Wall and Ceiling Finish Classification", has a means of classifying materials with respect to Flame Spread and Smoke Developed when tested in accordance with NFPA 255, "Method of Test of Surface Burning Characteristics of Building Materials", (ASTM E-84).

The classifications are as follows:

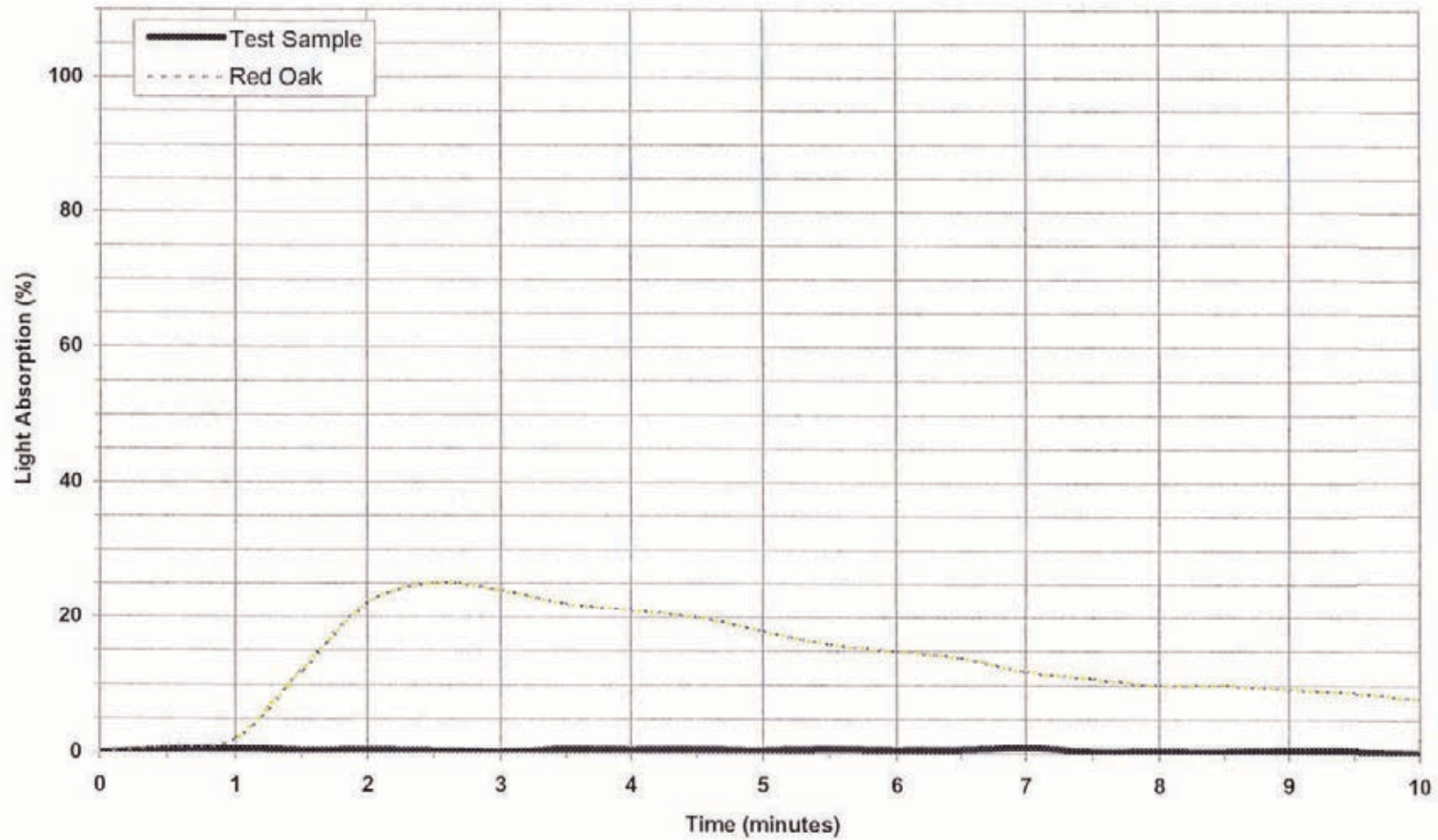
Class A Interior Wall & Ceiling Finish:	Flame Spread -	0-25
	Smoke Developed -	0-450
Class B Interior Wall & Ceiling Finish:	Flame Spread -	26-75
	Smoke Developed -	0-450
Class C Interior Wall & Ceiling Finish:	Flame Spread -	76-200
	Smoke Developed -	0-450

Since the sample received a Flame Spread of 15 and a Smoke Developed Value of 5, it would meet the parameters for a Class A Interior Wall & Ceiling Finish Category.

End of Report

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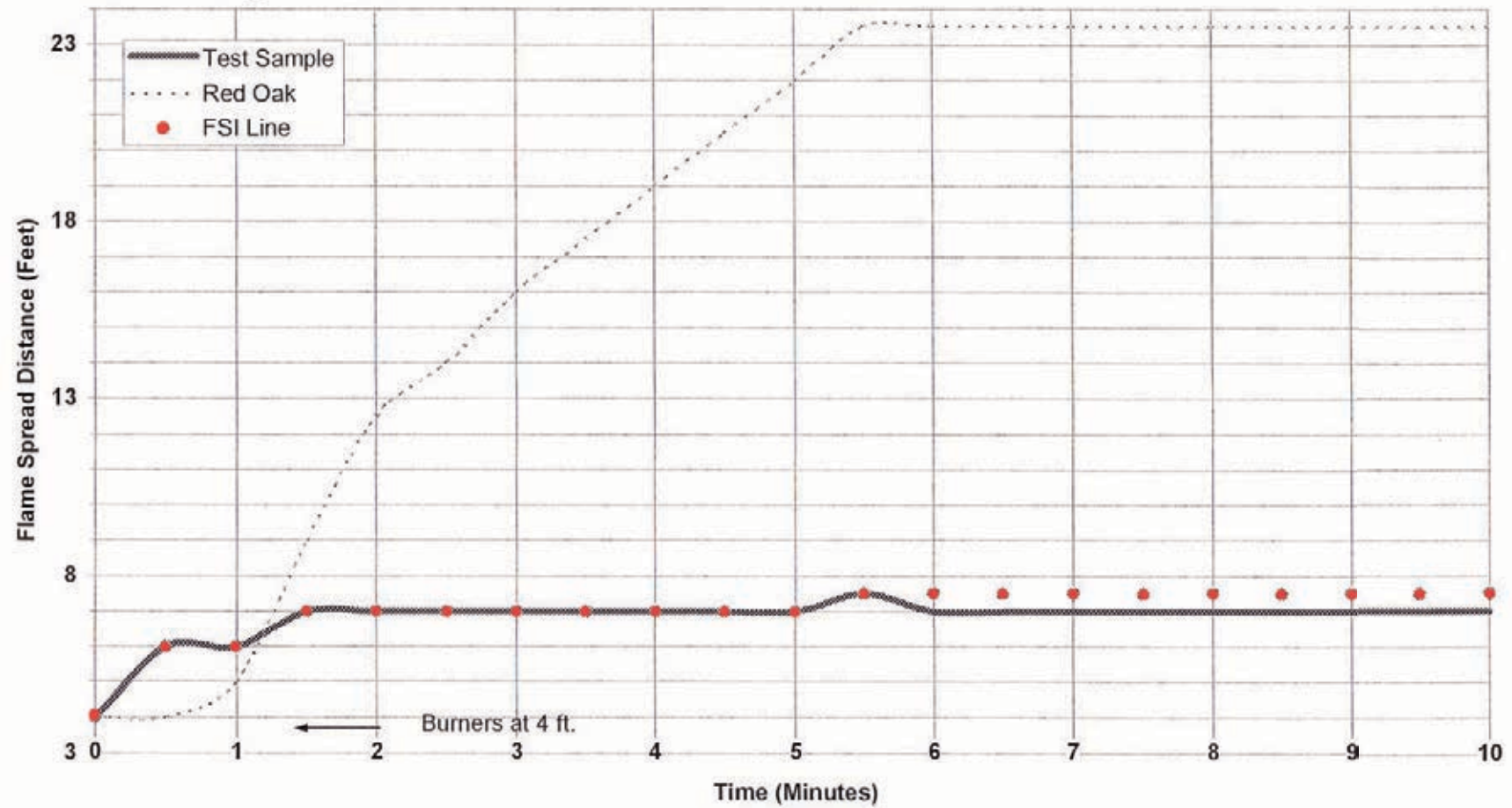
Smoke Developed Chart



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Flame Spread Chart



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Temperature - Time Curve

