



SGS U.S. Testing Company Inc.

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REPORT NUMBER: 134594
DATE: December 22, 1999
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REPORT OF TEST

CLIENT: A & W Maintenance, Inc.
P.O. Box 1206
Carver, MA 02330
Attn: Danny Warren

SUBJECT: Surface Burning Characteristics of Building Materials

AUTHORIZATION: Client's letter of authorization dated December 17, 1999

SAMPLE ID: One (1) sample of panels was submitted on December 14, 1999 and identified by the Client as:
" 1/2 inch Epoxy Coated Concrete Panels".

TEST PROCEDURE: The submitted sample was tested for Flammability in accordance with the procedures outlined in ASTM E-84-98a.

TEST DATE: December 21, 1999

PREPARED BY:

Nick Kitov, Technician
Fire Technology

SIGNED FOR THE COMPANY BY:

Hiten Pandya, Manager
Fire Technology

Member of the SGS Group

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CLIENT: A & W Maintenance, Inc..

TEST PROCEDURE AND RESULTS**INTRODUCTION:**

This report presents test results of Flame Spread and Smoke Developed Values per ASTM E-84-97a. 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-84-97a, "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:

Three (3) 24" wide x 96" long sections of material were fitted end to end to form a 24" x 24'0" sample. Since the sample was self-supporting, no further preparation was necessary. 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-84-97a procedures.

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

CLIENT: A & W Maintenance, Inc..

TEST RESULTS:

The test results, calculated in accordance with ASTM E-84-97a for Flame Spread and Smoke Developed Values are as follows:

Test Specimen	½ inch Epoxy Coated Concrete Panels
Flame Spread Index*	15
Smoke Developed Value*	215

*Values are 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 after 40 seconds along with charring, peeling and flaking of the coated specimen directly exposed to the flame. Also observed was flaking embers and floor burning as the flamefront advanced a maximum distance of 3.6 feet in 3.4 minutes.

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

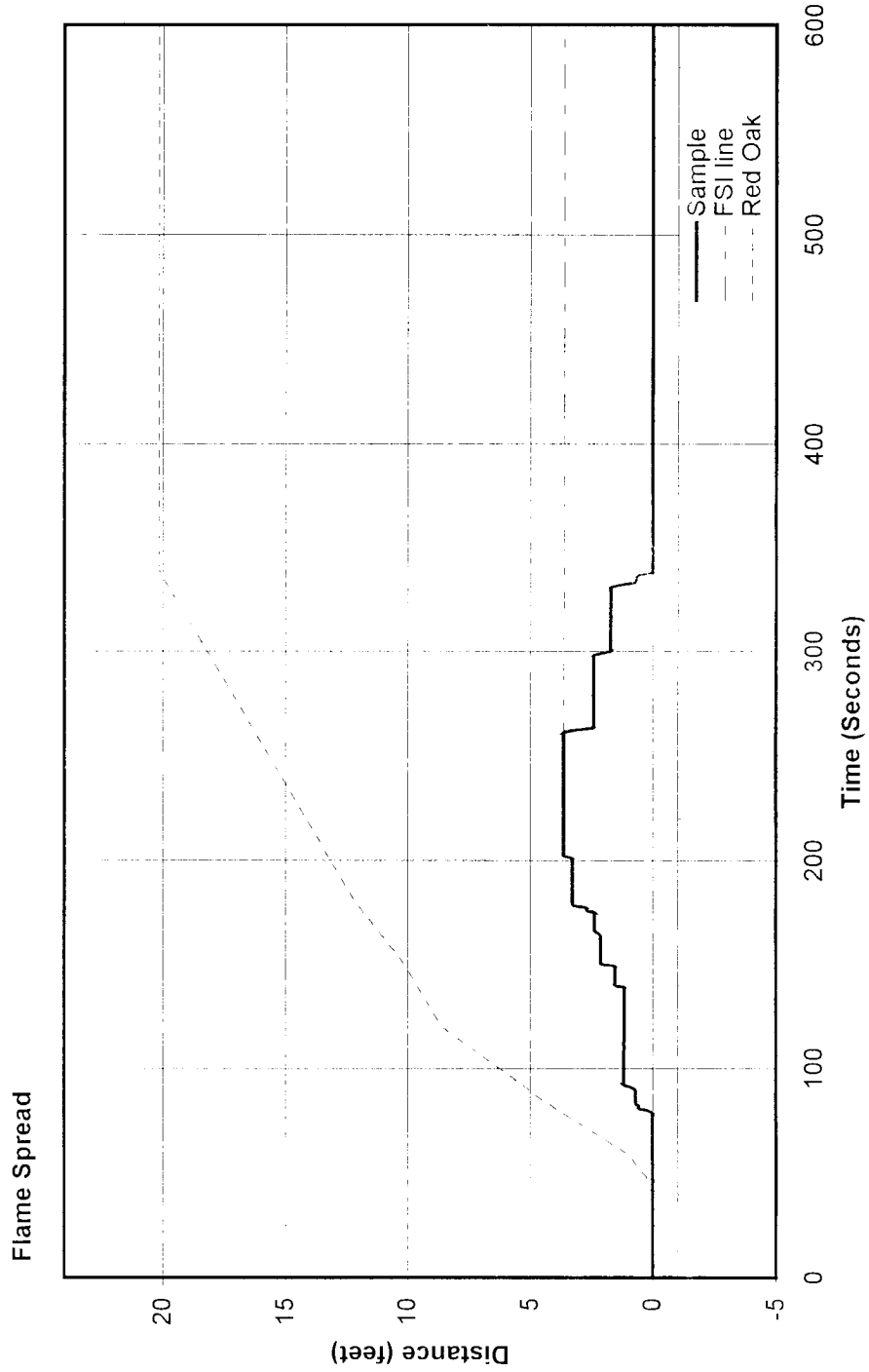
Since the sample received a Flame Spread of 15 and a Smoke Developed Value of 215, it can be classified as **CLASS A** as per the above Interior Wall & Ceiling Finish Category.

End of Report

REPORT OF TEST

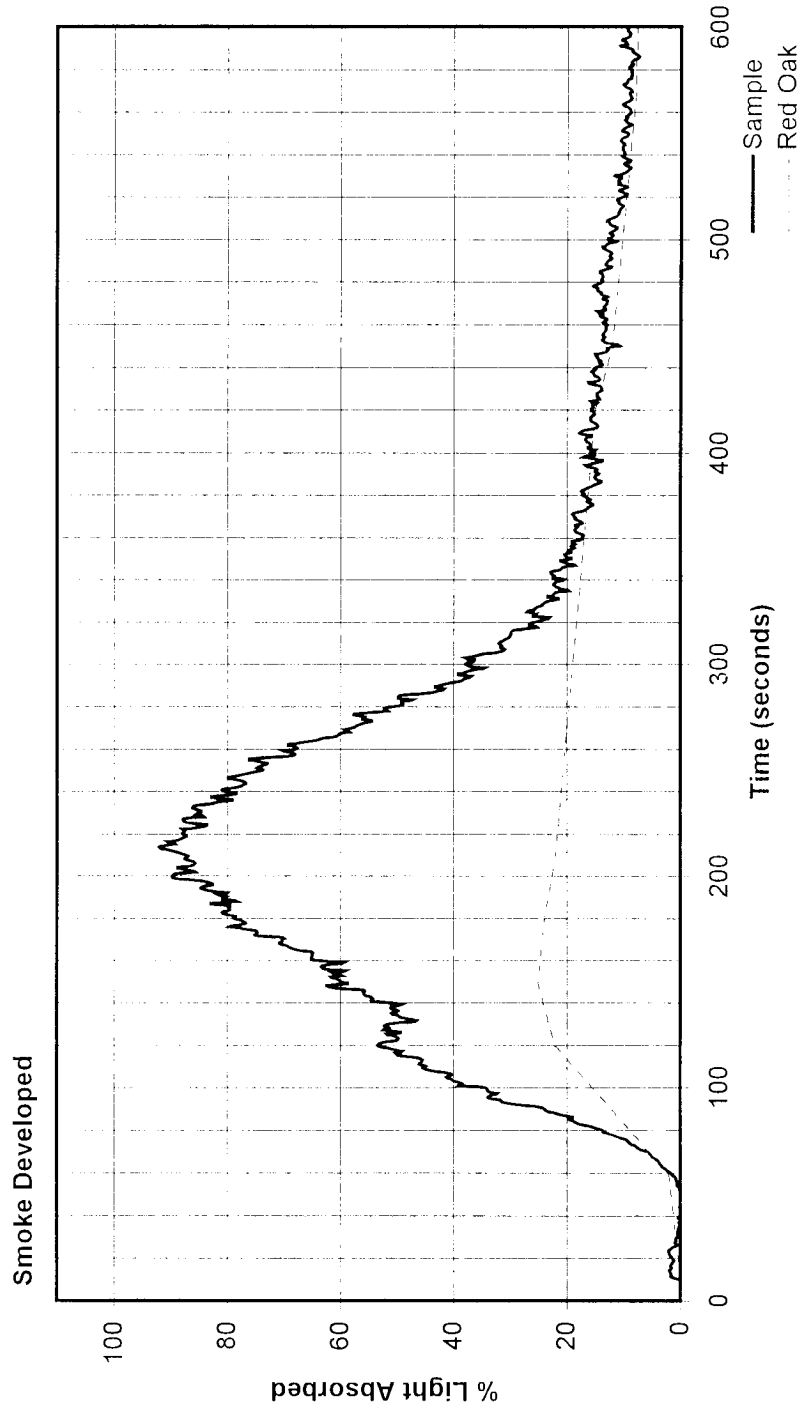
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