



CLIENT: Smooth On Inc.
2000 ST. John Street
Easton, PA 18042

Test Report No: 315057	Date: May 27, 2005
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The following sample was submitted by the Client as: 87-209 (1/4 Thick)

DATE OF RECEIPT: MAY 16, 2005

TESTING PERIOD: MAY 27, 2005

AUTHORIZATION: Clients Letter

TEST REQUESTED: The submitted sample was tested for Surface Burning Characteristics in accordance with the procedures outlined in ASTM E84-04.

TEST RESULTS: Continued on the following pages

PREPARED BY:

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Bill Booth, Technician
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dl

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

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Page 1 of 3

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Report No.: 315057

Date: 5/27/2005

Page: 2 of 3

CLIENT: Smooth On Inc.

RESULTS:

INTRODUCTION:

This report presents test results of Flame Spread and Smoke Developed Values per ASTM E-84-04. 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-84-04, 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:

Four pieces 5 feet long X 21 inches wide and 1 piece 4 feet long X 21 inches wide was placed end to end into the fire chamber to form a 24 foot long specimen for testing

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-84-04 procedures.

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



Report No.: 315057

Date: 5/27/2005

Page: 3 of 3

CLIENT: Smooth On Inc.

RESULTS:

TEST RESULTS:

The test results, calculated in accordance with ASTM E-84-04 for Flame Spread and Smoke Developed Values are as follows:

Test Specimen	: 87-209 (1/4 Thick)
Flame Spread Index*	: 60
Smoke Developed Value*	: 400

*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 19 seconds followed by charring, dripping, flaming dripping and floor burning down the length of the tunnel. No after burn or after glow was noted.

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).

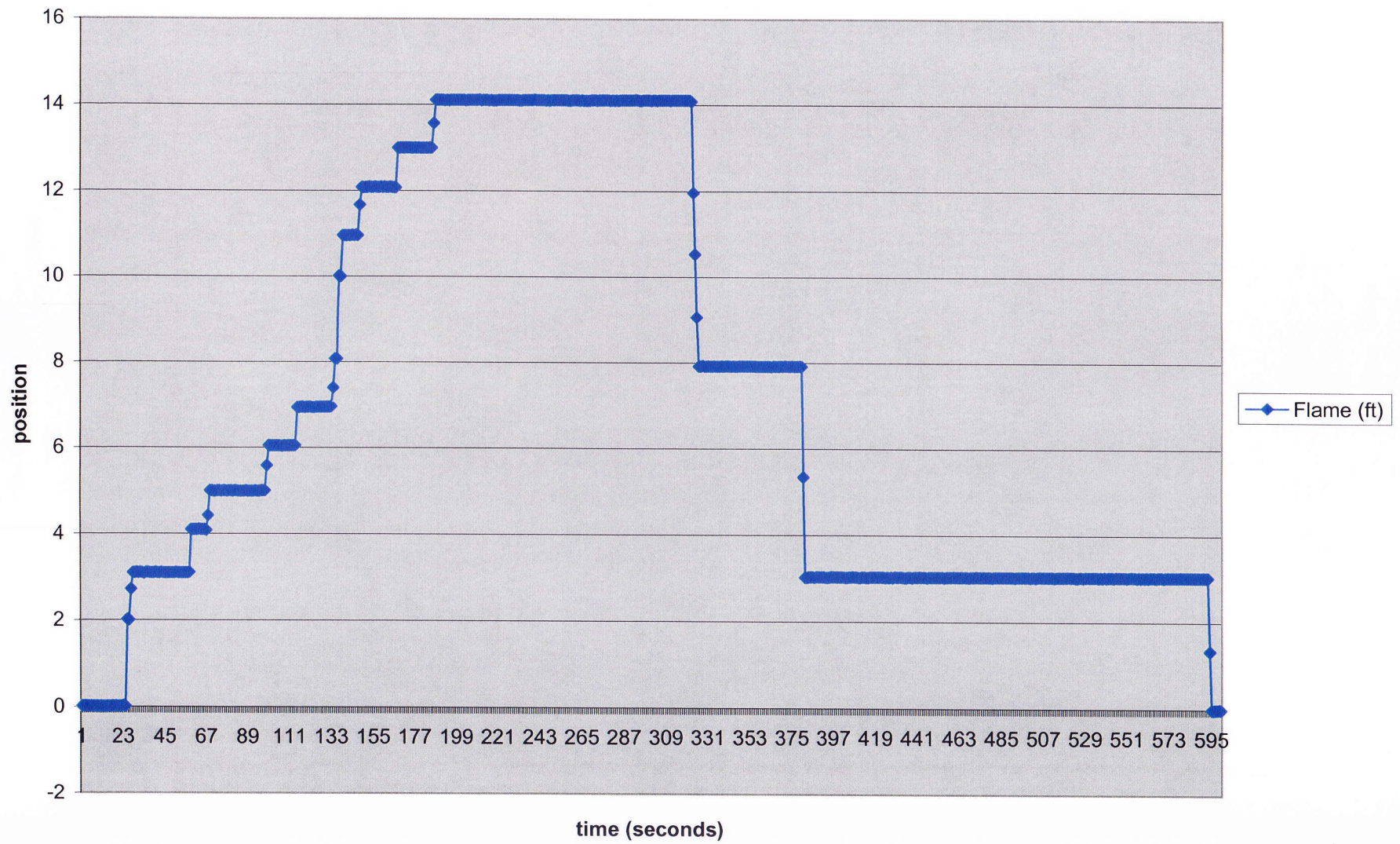
The classifications are as follows:

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 60 and a Smoke Developed Value of 400, it would fall into the Class B Interior Wall & Ceiling Finish Category

End of Report

G:\Fire Tech\Tunnel\April thru June 2005\Smooth On Inc. 315057.xls Flame Position (ft)



G:\Fire Tech\Tunnel\April thru June 2005\Smooth On Inc. 315057.xls Smoke %

