

# **A**merican Flamecoat Testing

Sunstate Awning  
50 Keyes Court  
Sanford, FL 32773

521 Eagleton Downs Dr.  
Suite F  
Pineville, NC 28134  
704-543-0903

\*SUNBRELLA

## **INTRODUCTION:**

This report presents test results of Flame Spread and Smoke Developed Value per ASTM E-84-98. The report also includes Material Identification, Method of Preparation, Mounting and Conditioning of the specimens.

The test were performed in accordance with the specifications set forth in ASTM E-84-98, Standard Test Method for Surface Burning Characteristics of Building Materials, both as to equipment and test procedures. 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 the 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:**

\*TREATED w/ FLAME CHECK\*

Shur-stik III Vinyl Wallcovering Adhesive was applied to three (3) 2-foot x 8-foot sections of IC board. The sample was placed over the adhesive and allowed to cure.

The sample was conditioned at 73 +/- 5 Fahrenheit and 50 +/- 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 +/- 5 Fahrenheit level, the sample was inserted in the tunnel at test conducted in accordance with the standard ASTM E-84-98 procedures.

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

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## **TEST RESULTS:**

The test results, calculated in accordance with ASTM E-84-98 for Flame Spread and Smoke Developed Values are as follows:

Test Specimen SUNBRELLA

Flame Index\* \*10\*

Smoke Developed Value\* \*25\*

## **Observation:**

THE TESTED MATERIAL MEETS THE REQUIREMENTS.

## **Rating:**

\*CLASS A\*

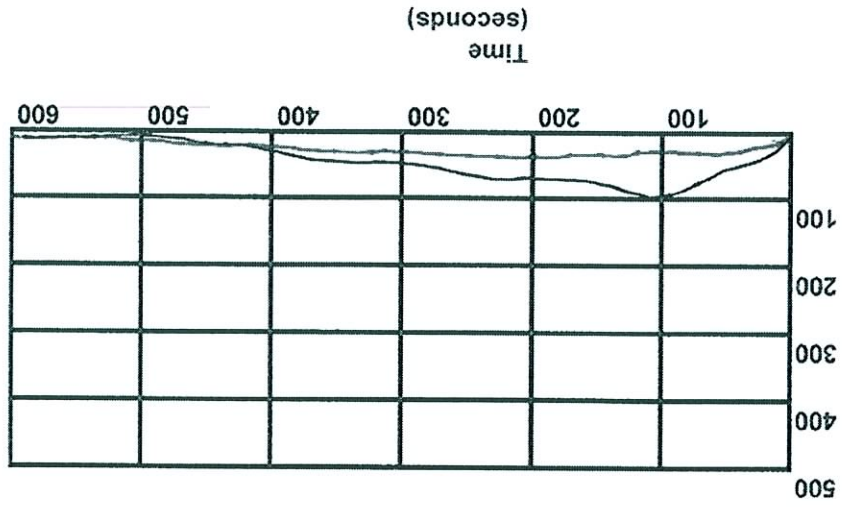
The National Fire Protection Association Life Safety Code 101, Section 6-5.3, "Interior Wall and Ceiling Finish Classification", has a means of classifying materials with respect to Flame Spread and Smoke Developed when tested in accordance with NFPA 255, "Method of Test of Surface Burning Characteristics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

The classifications are as follows:

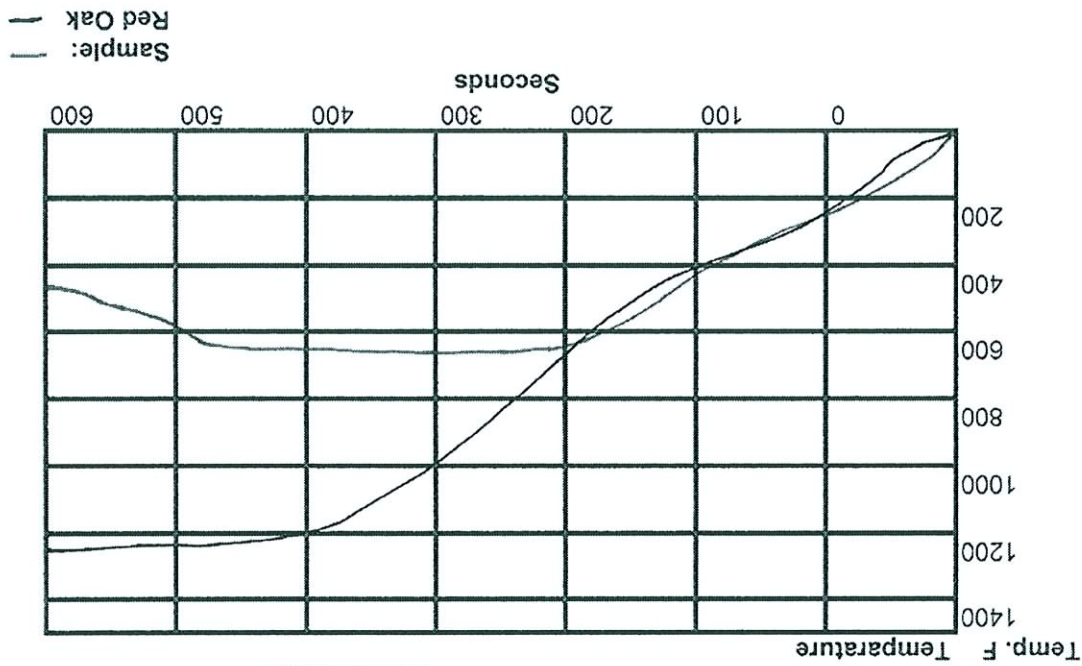
Class A Interior Wall & Ceiling Finish:	Flame Spread-	0-25
	Smoke Developed-	0-450
Class B Interior Wall & Ceiling Finish:	Flame Spread-	26-75
	Smoke Developed-	0-450
Class C Interior Wall & Ceiling Finish:	Flame Spread-	76-200
	Smoke Developed-	0-450

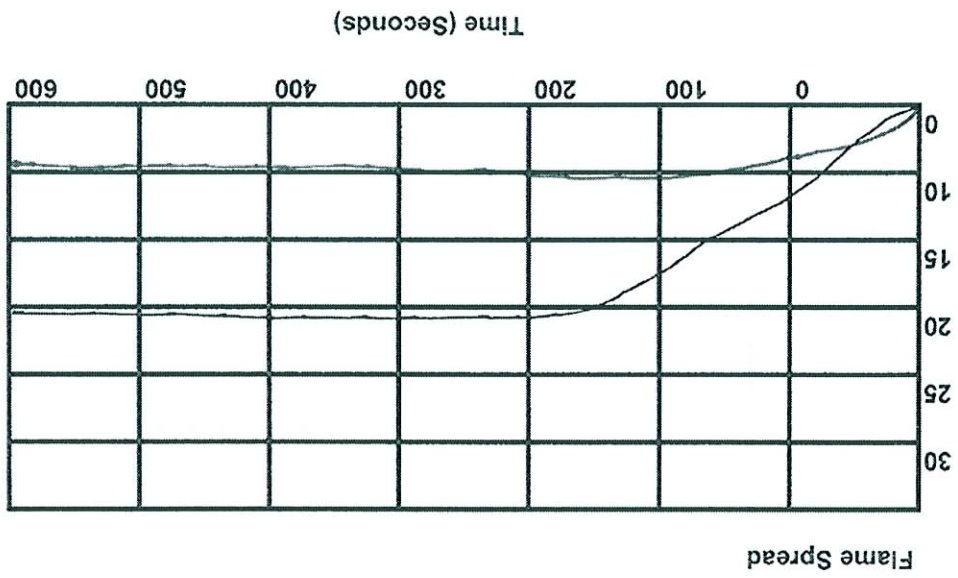
Client: Sunstate Awning  
Report #:   
Sample: SUNBRELLA

Smoke Developed:



Client: Sunstate Awning  
Report No.: SUNBRELLA





Distance

Flame Spread

Client: Sunstate Awning  
 Report No.:  
 Sample ID: SUNBRELLA



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Report No.: # 6463

SUNBRELLA  
TREATED W/ FLAME CHECK

TEST RESULTS

NATIONAL FIRE PROTECTION ASSOCIATION STD.701-1999 – TEST 1

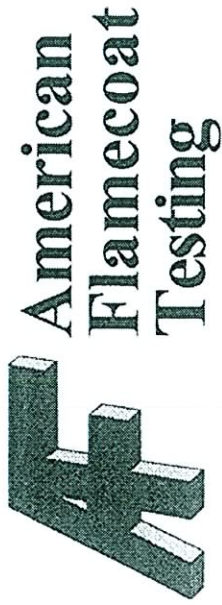
<u>Specimen Number</u>	<u>After Flame (seconds)</u>	<u>Residues (seconds)</u>	<u>Wt. Loss (percent)</u>
1	0.2	0.0	26.4
2	0.2	0.0	26.4
3	0.2	0.0	26.4
4	0.2	0.0	26.4
5	0.2	0.0	26.4
6	0.2	0.0	26.4
7	0.2	0.0	26.4
8	0.2	0.0	26.4
9	0.2	0.0	26.4
10	0.2	0.0	26.4
AVERAGE	0.2	0.0	26.4

**Results:** THE ABOVE TESTED FABRIC MEETS THE REQUIREMENTS.

**Requirements:** Average weight loss shall not be more than 40% and any individual specimen shall not exceed the mean value plus three standard deviations.

**Flaming Fragments  
or Residue:** Shall not continue to flame after reaching the floor of the tester for more than an average of two seconds per specimen for the sample of 10 specimens.

A handwritten signature in black ink, appearing to read 'B. J. [unclear]', is located at the bottom right of the page.



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Date:

Test: California Technical Bulletin #1117, Section E (CS-191-53)

Reference #:

Invoice #:

Submitted By: SUNSTATE AWNING

Fabric Specimen Identification: \*SUNBRELLA  
TREATED w/ FLAME CHECK\*

	<u>Specimen Number</u>					Average Flame	Code	Class
Warp:	1	2	3	4	5			
	DNI	DNI	DNI	DNI	DNI	DNI	DNI	1
Fill:	1	2	3	4	5	Average Flame <td>Code<td>Class</td></td>	Code <td>Class</td>	Class
	DNI	DNI	DNI	DNI	DNI	DNI	DNI	1

DNI: Did Not Ignite

Signed:

A handwritten signature in black ink, appearing to read 'Sean P. [unclear]', is written over a horizontal line.