



# Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

123 Columbia Court North • Suite 201 • Chaska, MN 55318  
(952) 448-5300 • Fax (952) 448-2613 • (800) 448-0121

Email: [sales@acousticalsurfaces.com](mailto:sales@acousticalsurfaces.com)  
Visit our Website: [www.acousticalsurfaces.com](http://www.acousticalsurfaces.com)

We Identify and **S.T.O.P.** Your Noise Problems

REPORT OF TEST



SGS U.S. Testing Company Inc.

Report No.:740300-3  
Date: 2/27/96  
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**CLIENT:** Rendered by Manufacturer and Released to:  
Acoustical Surfaces Inc.  
123 Columbia Court North, Suite 201  
Chaska, MN 55318

**SUBJECT:** FLAME SPREAD CLASSIFICATION AND SMOKE DENSITY DEVELOPED.

**REFERENCES:**

1. Our confirmation to the Client dated February 22, 1996.
2. Test samples received on February 15, 1996.
3. Testing conducted on February 20, 1996.
4. testing witnessed by Mike Nixon.
5. Client's Purchase Order No. 5399.

**SAMPLE ID:** The client submitted and identified the sample materials as:  
**Acoustic Panels - Set No. 10, Colortec convoluted Melamine foam.**

**TEST PROCEDURES:** Perform standard flame spread and smoke density developed classification tests on the samples supplied by the Client in accordance with ASTM Designation E-84-95, "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.

PREPARED BY:

Greg Banasky  
Test Technician

SIGNED FOR COMPANY BY:

Michael S. Elliott  
Manager/Fire Tech. Dept.

**ANALYTICAL SERVICES • PERFORMANCE TESTING STANDARDS EVALUATION • CERTIFICATION SERVICES**

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### PREPARATION AND CONDITIONING:

The sample material was submitted in six pieces, 24" wide by 49" long. Conforming to test chamber dimensions.

The samples were supported during testing by 2" hexagonal mesh poultry netting running the length of the test chamber and 1/4" round metal rode placed at tow foot intervals across the width.

Prior to testing, the specimen was placed in the conditioning room (maintained at 73.4 ± 5° F and a relative humidity of 50 ± 5%) and allowed to reach moisture equilibrium.

### SUMMARY OF

**ASTM E84 RESULTS:** Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5.

<u>SAMPLE IDENTIFICATION</u>	<u>FLAME SPREAD</u>	<u>SMOKE DENSITY</u>
Set No. 10	5	90

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

<u>NFPA CLASS</u>	<u>UBC CLASS</u>	<u>FLAME SPREAD</u>
A	I	0 through 25
B	II	26 through 75
C	III	76 through 200

### BUILDING CODES CITED:

1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 1994 Edition.
2. Uniform Building Code, 1994 Edition, Chapter 8, Interior Finishes, Sections 801-807.



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REPORT OF TEST

**E 84 TEST DATA SHEET:**

**CLIENT:** Rendered by Manufacturer and Released to: Acoustical Surfaces Inc.

**DATE:** 2/20/96

**SAMPLE:** Acoustical Panels - Set No. 10, Colortec convoluted Melamine foam

**OVERALL WEIGHT:** N/A

**THICKNESS:** 1" nominal

**FLAME SPREAD: IGNITION:** 12 seconds

**FLAME FRONT:** 1 foot maximum

**TIME TO MAXIMUM SPREAD:** 19 seconds

**TEST DURATION:** 10 minutes

**CALCULATION:** 9.74 X 0.515 = 5.02

**SUMMARY: FLAME SPREAD:** 5

**SMOKE DENSITY:** 90

**OBSERVATIONS:** Sample surface ignition occurred at 12 seconds. A maximum flame front advance of 1 foot was observed at 19 seconds.



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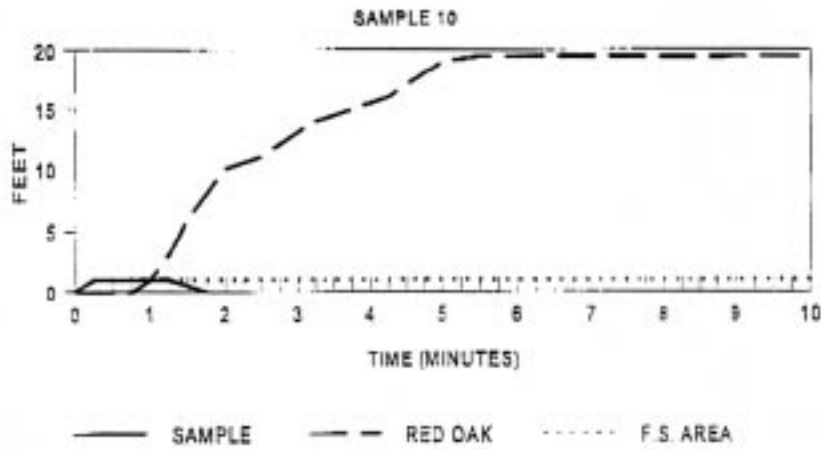
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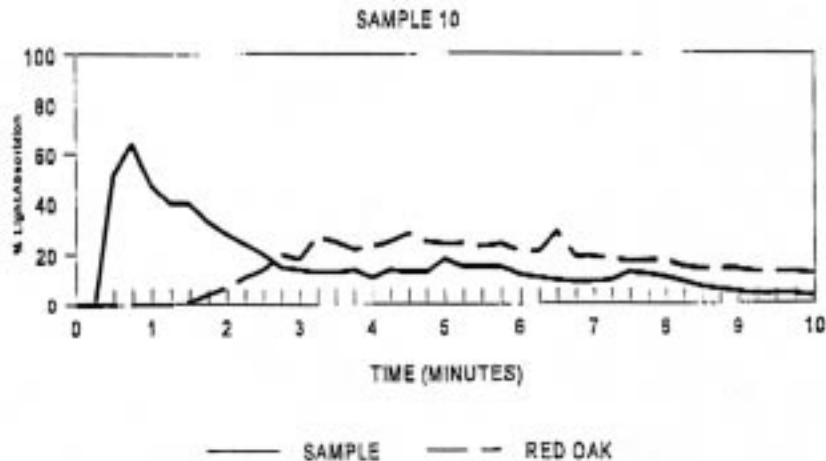
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REPORT OF TEST

## FLAME SPREAD AREA



## SMOKE DENSITY



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End of Report