



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

Visit our Website: www.acousticalsurfaces.com

We Identify and S.T.O.P. Your Noise Problem



CLIENT: Rendered by Manufacturer and Released to:

Acoustical Surfaces, Inc., 123 Columbia Court North, Chaska, MN 55318

Test Report No: 610893R1

Date: August 29, 2006

REVISED REPORT: This report supersedes all previous reports bearing the reference number 610893, originally issued on May 22, 2006.

SAMPLE ID: The Client submitted and identified the following test material as: The sample presented for testing was that of an actual acoustical wall section, constructed as it would be in the field; the wall section was made to conform to the dimensions of the test chamber which was 22 inches wide by 24 feet in length. See details of sample construction on page 2.

DATE OF RECEIPT: Entered into SGS USTC sample tracking system on March 23, 2006.

TESTING PERIOD: April 11, 2006.

AUTHORIZATION: Testing authorized by Milt Morris.

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-05, "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.

TEST RESULTS:

Flame Spread

Smoke Developed

15

145

For detailed results see page 3.

Tested by

**Signed for and on behalf of
SGS U.S. Testing Company Inc.**

Brian Ortega
Test Technician

Greg Banasky
Supervisor Fire Technology

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PREPARATION AND CONDITIONING: The sample material was submitted in three sections, 22" wide by 96" long.

SAMPLE CONSTRUCTION DETAILS: The assembly consisted of 5/8 drywall, around the perimeter of which was attached the subject of the test, Wallmate® Fabric Wallmount Systems' Fabric Mounting Track, 1 1/16 series, Mineral Wool Acoustical Core was attached to the interior of the framework; Guilford FR701 Acoustical Fire Rated Fabric was the decorative finish which was stretched and locked into the Wallmate® perimeter mountings.

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.

CEMENT BOARD PLACEMENT: The cement boards were placed between the specimen and the furnace lid assembly.

SUMMARY OF ASTM E84 RESULTS: Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5. Smoke Developed values over 200 are rounded to the nearest figure divisible by 50.

<u>SAMPLE IDENTIFICATION</u>	<u>FLAME SPREAD</u>	<u>SMOKE DEVELOPED</u>
Acoustical Wall Section	15	145

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 145, it would meet the parameters for a Class A Interior Wall & Ceiling Finish Category.



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E 84 TEST DATA SHEET:

CLIENT: _____

DATE: 04/11/06

SAMPLE: Acoustical Wall Section

FLAME SPREAD:

IGNITION: 1 minute, 15 seconds

FLAME FRONT: 3.5 feet maximum

TIME TO MAXIMUM SPREAD: 2 minutes, 1 second

TEST DURATION: 10 minutes

CALCULATION: $28.65 \times 0.515 = 14.75$

SUMMARY: FLAME SPREAD: 15 SMOKE DEVELOPED: 145

OBSERVATIONS: Sample surface ignition was observed at 1 minute, 15 seconds. A flame front advance of 3.5 feet was observed at 2 minutes, 1 second. Floor burning was noted commencing at 7 minutes, 30 seconds and continuing for the duration of the test.



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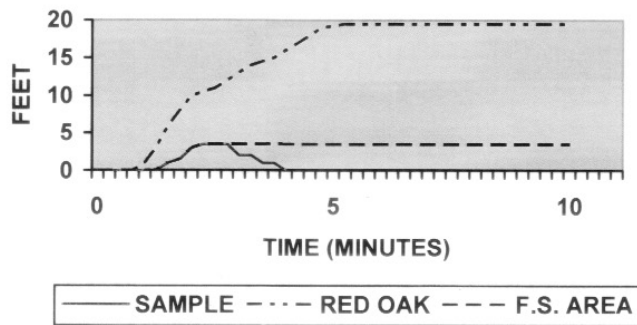
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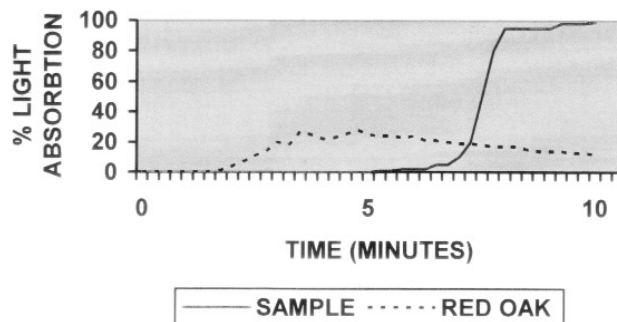
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FLAME SPREAD
ACOUSTICAL WALL SECTION



SMOKE DEVELOPED
ACOUSTICAL WALL SECTION



End of Report