



Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

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TEST REPORT

**OMEGA POINT
LABORATORIES, INC.**
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ASTM E84-04

**SURFACE BURNING
CHARACTERISTICS
OF BUILDING MATERIALS**

Report No. 16715 - 124677

2539-020 Drift Pc# 41252002

June 7, 2005

Prepared for:
Interface Fabrics Group
120 Gilboa Street
East Douglas, MA 01516





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ABSTRACT

Test Specimen:	2539-020 Drift Pc# 41252002	
Test Standard:	ASTM E84-04	
Test Date:	June 06, 2005	
Test Sponsor:	Interface Fabrics Group	
Test Results:	FLAME SPREAD INDEX	= 10
	SMOKE DEVELOPED INDEX	= 85

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Eric G. Hutchinson
E84 Operator

Reviewed and approved:

June 7, 2005

William E Fitch PE No. 55296

June 7, 2005





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I. INTRODUCTION

This report describes the results of the ASTM E84-04 Standard Test Method for SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS, a method for determining the comparative surface burning behavior of building materials. This test is applicable to exposed surfaces, such as ceilings or walls, provided that the material or assembly of materials, by its own structural quality or the manner in which it is tested and intended for use, is capable of supporting itself in position or being supported during the test period.

The purpose of the method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke density developed are reported, however, there is not necessarily a relationship between these two measurements.

“The use of supporting materials on the underside of the test specimen may lower the flame spread index from that which might be obtained if the specimen could be tested without such support. This method may not be appropriate for obtaining comparative surface burning behavior of some cellular plastic materials. Testing of materials that melt, drip, or delaminate to such a degree that the continuity of the flame front is destroyed, results in low flame spread indices that do not relate directly to indices obtained by testing materials that remain in place.”

This test method is also published under the following designations:

ANSI 2.5

NFPA 255

UBC 8-1 (42-1)

UL 723

This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.





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II PURPOSE

The ASTM E84-04 (25 foot tunnel) test method is intended to compare the surface flame spread and smoke developed measurements to those obtained from tests of mineral fiber cement board and select grade red oak flooring. The test specimen surface (18 inches wide and 24 feet long) is exposed to a flaming fire exposure during the 10 minute test duration, while flame spread over its surface and density of the resulting smoke are measured and recorded. Test results are presented as the computed comparisons to the standard calibration materials.

The furnace is considered under calibration when a 10 minute test of red oak decking will pass flame out the end of the tunnel in five minutes, 30 seconds, plus or minus 15 seconds. Mineral fiber cement board forms the zero point for both flame spread and smoke developed indexes, while the red oak flooring smoke developed index is set as 100.

III DESCRIPTION OF TEST SPECIMEN

Specimen Identification: 2539-020 Drift Pc# 41252002

Date Received: 4/20/2005

Date Prepared: 4/20/2005

Conditioning (7 3°F & 50% R.H.): 47 days

Specimen Width (in): 24

Specimen Length (ft): 24

Specimen Thickness: 0.0165-in.

Material Weight: N/A oz./sq. yd

Total Specimen Weight: 2.50-lbs.

Adhesive or coating application rate: N/A

Mounting Method:

The specimen was supported on 1/4 in steel rods and 2 inch galvanized hexagonal wire mesh.

Specimen Description:

The Test specimen was described by the client as the "100% Polyester Panel Fabric." The specimen consisted of (2) 12-ft. long x 24-in. wide x 0.0165-in. thick, 100% polyester panel fabric. The fabric was brown in color, and was identified as "2539-020 Drift Pc# 41252002."





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IV TEST PROCEDURE

The tests were conducted in accordance with the procedures outlined in the American Society for Testing and Materials ASTM E84-04. The self-supporting specimens were placed directly on the tunnel ledges. After the tests, the samples were removed from the tunnel, examined and disposed of.

The test was conducted on 6/6/2005, and not witnessed by any third parties.

IV TEST RESULTS

The test results, computed on the basis of observed flame front advance and electronic smoke density measurements are presented in the following table. In recognition of possible variations and limitations of the test method, the results are computed to the nearest number divisible by five, as outlined in the test method for smoke developed index results greater than 200 the calculated value is rounded to the nearest 50 points.

While no longer a part of this standard test method, the Fuel Contributed Value has been computed, and may be found on the computer printout sheet in the Appendix.

Test Specimen	Flame Spread Index	Smoke Developed Index
Mineral Fiber Cement Board	0	0
Red Oak Flooring	90	95
2539-020 Drift Pc# 41252002	10	85

The data sheets are included in the appendix. These sheets are actual print-outs of the computerized data system which monitors the ASTM E84-04 apparatus, and contain all calibration and specimen data needed to calculate the test results.

V. OBSERVATIONS

During the test, the specimen was observed to behave in the following manner: The polyester fabric began to melt at 0:03 (min:sec.). The specimen ignited at 0:06 (min:sec). Flaming drops began to fall from the fabric at 0:08 (min:sec). The floor of the apparatus ignited at 7:27 (min:sec). The test continued for the 10:00 duration.

After the test specimen was observed to be damaged as follows:

The polyester fabric was consumed from 0-ft. - 12 -ft. Light discoloration was observed to the fabric from 12-ft. - 24-ft.





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APPENDIX

ASTM E84-04 Data Sheets





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ASTM E84 DATA SHEETS

Client: INTERFACE FABRICS INC.

Date: 6/6/05

Time: 04:06 PM

Test Number 7

Project Number: 16715-124677

Operator EH/TA

Specimen ID: "2539-020 DRIFT PC# 41252002. 100% POLYESTER PANEL FABRIC."

THE SPECIMEN WAS SUPPORTED BY RODS AND WIRE. THE

SPECIMEN WAS NOT UNDER THE O.P.L.Q.A.

TEST RESULTS

FLAMESPREAD INDEX 10

SMOKE DEVELOPED INDEX 85

SPECIMEN DATA ...

Time to Ignition (sec): 6

Time to Max FS (sec): 73

Maximum FS (feet): 1.7

Time to 980 °F (sec): Never Reached

Max Temperature (°F): 496

Time to Max Temperature (sec): 600

Total Fuel Burned (cubic feet): 51.56

FS*Time Area (ft*Min): 16.0

Smoke Area (%A*min): 81.7

Fuel Area (°F*min): 4171.1

Fuel Contributed Value: 0

Unrounded FSI: 8.3

CALIBRATION DATA ...

Time to Ignition of Last Red Oak (sec): 35

Red Oak Smoke Area (%A*min): 95.00

Red Oak Fuel Area (°F*min): 8963

Glass Fiber Board Fuel Area (°F*min): 4966



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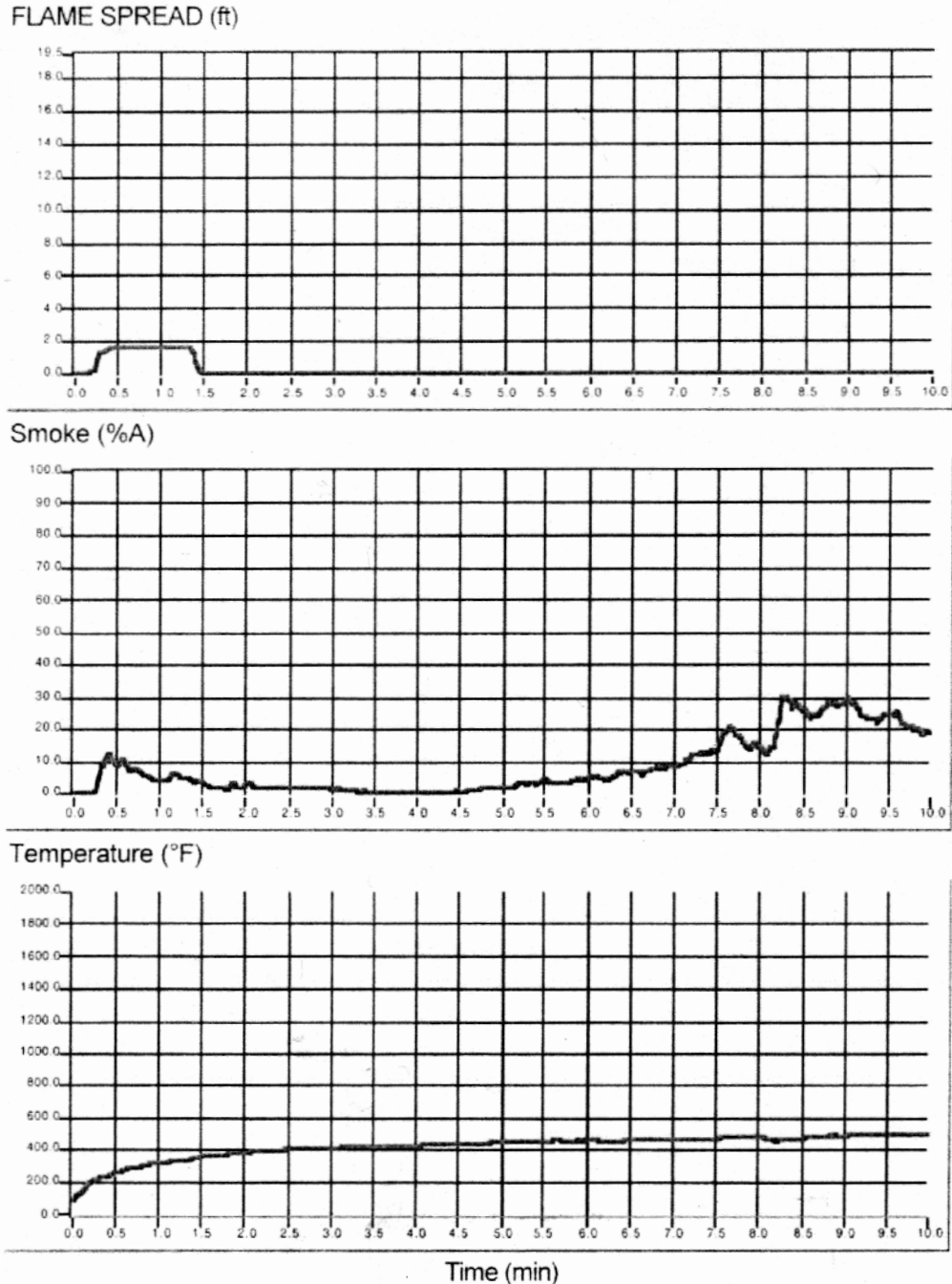
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