



Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

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



Celotex Corporation
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FIRE TESTING LABORATORY REPORT

June 18, 1998

Revised: July 15, 1998

MTS Job No.: 258526

Test Date: June 12, 1998

Client: Rendered by Manufacturer and Released to:
Acoustical Surfaces Inc.

Project: Surface Burning Characteristics of Nylon Sailcloth Baffles & Banners

Introduction

This report presents the results of a fire test conducted on material submitted to our laboratory on June 5, 1998. Testing was completed on June 12, 1998. The test was performed in accordance with the following American Society for Testing and materials (ASTM) test standard:

ASTM E 84-97a "Standard Test Method for Surface Burning Characteristics of Building Materials."

The test method was used to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed index numbers are reported for the tested material.

Specimen Identification:

Material ID: Nylon Sailcloth Baffles & Banners
Trade Name: Series 1000 – 2000 & 3000
Description: 2.0 mil thick Sailcloth sewn panels
Thickness: 2.0 inch nominal
Unit Weight: 3.0 lb.ft³

Six (6) nominally 24 inch wide by 48 inch long by 2 inch thick samples of the above material were submitted by the client for testing.

Fire Test Chamber:

The fire test chamber or "Steiner Tunnel" consists of a horizontal 25 foot length furnace duct with a nominal interior width of 17.75 inches and depth of 1/2 inches. The furnace walls are insulated with refractory fire brick. Observation windows, placed 24 inches on center, are provided the entire length of one side of the tunnel. Specimens are supported on a 1 inch wide ledge along the top of the chamber. A removable insulated, stainless steel cap is used to completely cover the chamber and the test samples. The lid's edges, submerged in a perimeter water tray, prevent air leakage into the test chamber with a complete seal. The chamber was constructed in accordance with a Section 5. "Apparatus", of the above standard.

This report is for the information of the client. It may be used in its entirety for the purpose of securing product acceptance from duly constituted approval authorities; however this report or the name of Celotex Corporation shall not be used in publicity or advertising.



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Specimen Preparation and Installation

The six (6) 24 inch by 48 inch by 2 inch samples were placed end to end on the furnace support ledge. Samples were supported in the tunnel with 1/4 inch diameter rods placed 24 inches on center. Three (3) 24 by 96 inch and one (1) 24 by 12 inch flat, inorganic reinforced cement boards were placed end to end on top of the test specimen for furnace lid protection.

The samples were conditioned in a controlled laboratory at 70° F and 50% relative humidity a minimum of 72 hours prior to testing.

Test Procedure:

The flame spread distances, smoke obscuration percentages, and furnace temperatures were transmitted to an automated data acquisition system with a linear voltage transducer, a linear photometer system, and 18 gage, Type K thermocouples, respectively. The average flame front was observed and followed, with the linear voltage transducer, by a trained technician. Measurements were recorded over a 10 minute test time period.

Test Results:

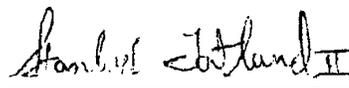
The rounded test results as required by Section 9, "Interpretation of Results", are summarized on the following table. The unrounded test results, test data and graphical plots for flame spread, smoke, and temperature developed data are located in the Appendix.

Specimen	Flame Spread Index (Unitless)	Smoke Index (Unitless)
CMA's Nylon Sailcloth Baffles & Banners; Series 1000, 2000, 3000	15	30

Observations:

The facer material rapidly melted away from the core material. The core material displayed after glow for 21 seconds after the completion of test.

Tested by: 
 William M. Gwynn
 Research Technologist

Approved by: 
 Stanley D. Gatland II
 Research Engineer