



## REPORT OF TEST

### CLIENT:

All Noise Control, Inc.  
2731 Vista Parkway  
WPB, FL 33411

NUMBER 099136  
September 25, 1990

### SUBJECT:

Surface Burning Characteristics of Building Materials

### REFERENCE:

All Noise Control Purchase Order Number 2738 dated September 13, 1990.

### TEST PERFORMED:

The submitted sample was tested for Flammability in accordance with the procedures outlined in ASTM E-84-89a.

### SAMPLE IDENTIFICATION:

One (1) sample of black vinyl sheeting was submitted and identified by the Client as:

### Testing Supervised by:

Steve Caldarola  
Senior Supervisor  
Fire Technology Section

BY:  
John Lomash  
Vice President

SIGNED FOR THE COMPANY

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**NUMBER: 099136**

## **INTRODUCTION:**

This report presents test results of Flame Spread and Smoke Developed Values per ASTM E-84-89a. The report also includes Material Identification, Method of Preparation, Mounting and Conditioning of the specimens.

The tests were performed in accordance with the specifications set forth in ASTM E-84-89a, "Standard Test Method for Surface Burning Characteristics of Building Materials", both as to equipment and test procedure. 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 a 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.

The performance of each material is evaluated in relation to the performance of inorganic cement board and red oak flooring under similar fire exposure.

## **PREPARATION AND CONDITIONING:**

One (1) 24" x 24'0" sample was laid on a 2-inch galvanized hexagonal wire mesh supported by steel rods spanning the width of the tunnel. The material was tested at a thickness of 0.107".

The sample was conditioned at 73 ± 5 F and 50 ± 5% 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 degrees Fahrenheit ± 5 degrees Fahrenheit level, the sample was inserted in the tunnel and test conducted in accordance with the standard ASTM E-84-89 a procedures.

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

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## TEST RESULTS:

The test results, calculated in accordance with ASTM E-84-89a for Flame Spread and Smoke Developed Values are as follows:

Test Specimen:	VB60
Flame Spread Index*:	110
Smoke Developed Value*:	270

\*Graphs of the Flame Spread, Smoke Developed and Time-Temperature are shown in figures 1, 2, and 3 at the end of this report.

## OBSERVATIONS:

Ignition was noted at 40 seconds along with charring and sagging of the specimen directly exposed to the flame. Also observed were falling, flaking and floor burning as the flame front advanced the complete length of the specimen at 3 minutes. Afterglow was evident upon test completion.

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