



# 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

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



**Fire Testing  
Laboratory**



## TEST REPORT

Rendered by Manufacturer and Released to:  
Acoustical Surfaces, Inc.  
123 Columbia Court North  
Chaska, MN 55318

### Surface Burning Characteristics of Building Materials

#### ASTM E-84-10

Test Report No: FH-2053

Assignment No: H-704

Test Date: 3/15/2010

Report Date: 3/18/2010

Subject Material: SONEXone panels w/ HPC coating (SOH-2)

Prepared by:   
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Reviewed by:   
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Director, Laboratory Facilities  
and Testing Services

The results reported in this document apply to specific samples submitted for measurement. No responsibility is assumed for performance of any other specimen. This report may not be reproduced, except in full, without the written approval of the laboratory. The laboratory's test reports in no way constitutes or implies product certification, approval or endorsement by this laboratory.

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## **MATERIAL TESTED:**

Material submitted by Manufacturer, was described by the client as:

### **SONEXone PANELS with HPC COATING (SOH-2)**

The samples were conditioned at 70°F and 50% RH to achieve equilibrium prior to testing.

The irregular side of the panels were exposed to the fire.

## **METHOD OF SUPPORT:**

Six, 24" x 48" panels were placed over a continuous length of 2.0" galvanized steel poultry netting, supported with 1/4" diameter steel rods spaced 24" on center down the entire 24 ft. length of the furnace. The panels were butted end to end with the irregular surface exposed to the fire.

## **LID PROTECTION:**

1/4 in. thick fiber reinforced cement board was placed atop the specimen as lid protection.

## **RESULTS:**

The results can be found on page 3 of this report.



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**RESULTS:**

TEST NO.	MATERIAL TESTED	SIDE EXPOSED	SUPPORT	CALCULATED FLAME SPREAD	CALCULATED SMOKE DEVELOPED
1	SONEXone PANELS w/ HPC COATING	IRREGULAR	WIRE & RODS	12.59	210.76

MATERIAL TESTED	SIDE EXPOSED	SUPPORT	FLAME SPREAD INDEX *	SMOKE DEVELOPED INDEX*
RED OAK FLOORING	NA	DECKS	100	100
REINFORCED CEMENT BOARD	NA	SELF	0	0
SONEXone PANELS w/ HPC COATING	IRREGULAR	WIRE & RODS	<b>15</b>	<b>200</b>

CLASS	FSI	SDI
A	25 or less	450 or less
B	26-75	450 or less
C	76-200	450 or less

\* Flame Spread/Smoke Developed Index is the result (or average of the results of multiple tests), rounded to the nearest multiple of 5. Smoke Developed in excess of 200, rounded to the nearest 50.



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DATE 3/15/2010

TEST #: FH-2053

TEST METHOD: ASTM E-84-10

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

PROJECT #: H-704

SAMPLE: 1

MATERIAL: SONEXONE PANELS w/ HPC COATING


METHOD OF SUPPORT: WIRE & RODS

REMARKS: IGNITION @ 0:05

MAX. FLAME FRONT 2.5' @ 0:19

FORMED SIDE EXPOSED

#	TIME (Min.)	TIME (Sec.)	DISTANCE (FT.)
1	0	5	0.0
2	0	9	0.0
3	0	12	1.0
4	0	16	2.0
5	0	19	2.5
6	10	0	2.5
7			
8			
9			
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11			
12			
13			
14			
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17			
18			
19			
20			

WITNESSED BY: 

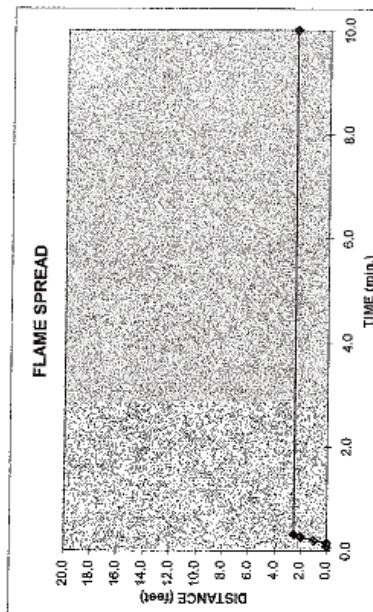
E-MAIL: [ngctest@nationalgypsum.com](mailto:ngctest@nationalgypsum.com)

## Fire Testing Laboratory



ADC DRAFT (IN. H2O) 0.078  
GAS PRESS. (IN. H2O) 0.289  
GAS VOL. (CF) 49.99  
BTU/cf 1008  
SHUTTER 3"  
TEMP. 13° BURIED 105°F

FLAME SPREAD- 12.59  
AREA UNDER THE CURVE (min.-ft.) 24.45  
SMOKE DEVELOPED- 210.76



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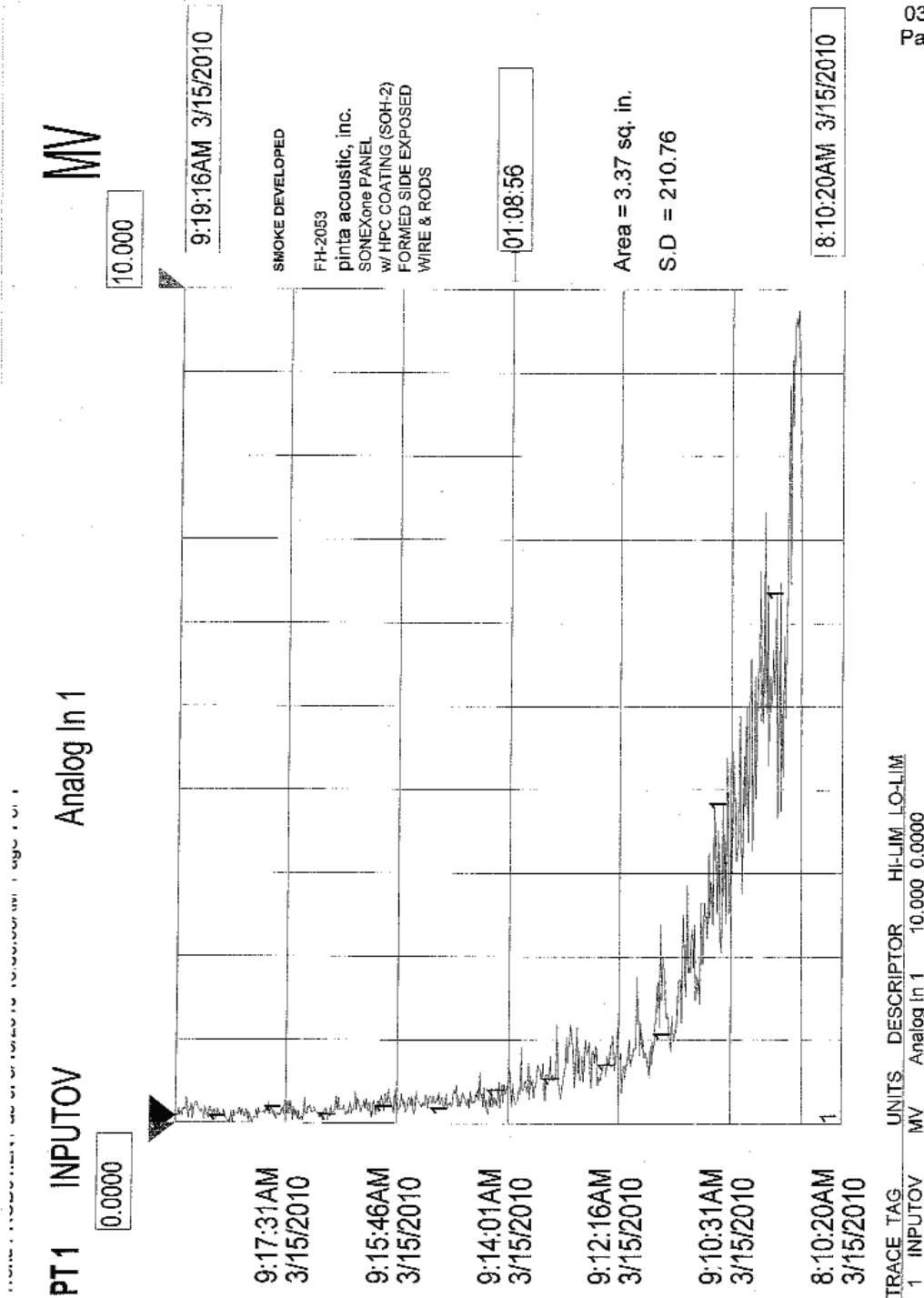
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