



Title: Fire Test Results

Product: Echo Eliminator

Application: Wall or Ceiling

Testing Standard: ASTM E84 and ASTM C739 (Sections 9, 11, 13, and 15)

Test Date: 01/05/2000

Why this test (ASTM E84): This test evaluates products surface burning characteristics. Products are rated on the distance a flame travels across the product as well as the amount of smoke that is created during the exposure to fire.

Test Result Summary (ASTM E84): Class A, Flame Spread: 5; Smoke Developed: 35

Why this test (ASTM C739): This test evaluates chemically treated, recycled cellulosic fiber products for their composition, and physical properties. Suitable chemicals are introduced to provide properties such as flame resistance, processing, and handling characteristics. This test checks that the product complies with physical and chemical properties such as: corrosiveness; fungi resistance; and thermal resistance.

Test Result Summary (ASTM C739): (Section 9) Corrosiveness: Pass, (Section 11) Fungi Resistance: Pass, (Section 13) Fungi Resistance: Pass, (Section 15) Thermal Resistance: 10.3

Test ID: 135052

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REPORT OF TEST



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Report No.: 135052
Date: 2/14/00
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CLIENT: Rendered by Manufacturer for
Acoustical Surfaces Inc.
123 Columbia Court North, Suite 201
Chaska, MN 55318

Attn: Tod Kean

SUBJECT: Testing of Non-Woven Natural Fiber Insulation for Compliance with
ASTM C 739-97 Sections, 9.0, 11.0, 13.0, and 15.0 and ASTM E84

SAMPLE ID: Multiple pieces of Non-Woven Natural Fiber Insulation were received from the
client on 12/27/99. The samples were received in good condition.

PROCEDURE: The material was tested for Compliance with ASTM C 739-97
Sections, 9.0, 11.0, 13.0, and 15.0 and ASTM E84.

Test Dates: 1/5/00 – 2/14/00.

RESULTS: The results are on the following page.

Jeff Simmons
Bk Dept. manager/Product Evaluation

Signed for the Company

Dale E. Holloway
Tulsa Branch Director

Member of the SGS Group

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REPORT OF TEST



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RESULTS:

ASTM C 739, Loose Fill Cellulose Insulation

	<u>Observed</u>	<u>Required</u>	
9.0 <u>Corrosiveness</u>			Pass
Aluminum	Non-corrosive	(Non-corrosive)	
Carbon Steel	Non-corrosive	(Non-corrosive)	
Copper	Non-corrosive	(Non-corrosive)	
11.0 <u>Fungi Resistance</u>			Pass
	Resistant	(Resistant)	
13.0 <u>Fungi Resistance</u>			Pass
	Not objectionable	Not objectionable	
15.0 <u>Thermal Resistance (3 per inch, Minimum)</u>			
<u>Test Results</u>	<u>Thickness</u>	<u>Thermal Resistance,</u>	
	<u>Inches</u>	<u>Total (R)</u>	
A	3.008	10.1	
B	3.006	10.3	

REPORT OF TEST



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Date: 2/14/00
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CLIENT: Rendered by Manufacturer for
Acoustical Surfaces Inc.
23 Columbia Court North, Suite 201
Chaska, MN 55318

ASTM E 84, Flame Spread Index

	<u>Flame Spread Index</u>	<u>Smoked Developed Value</u>
5	5	35

Observations:

Ignition was noted after 33 seconds followed by charring of the specimen directly exposed to the flame. Also observed was nominal flaking. Afterburn was evident upon test completion.

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", (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 5 and a Smoke Developed Value of 35, it would fall into the Class A Interior Wall & Ceiling Finish Category.

End of Report