

#### **Title: Fungal Growth Test Results**

#### **Product: Echo Eliminator**

Application: Ceiling or Wall

Testing Standard: ASTM C1338

Test Date: March 2010

*Why this test:* This test evaluates growth of fungal spores on the product after a 28-day growth period. The tested product undergoes a 40x magnification visual examination and is compared to a similar untreated material. The tested product is determined to have either no fungal growth, fungal growth no greater than the comparative material, or fungal growth greater than the comparative material. Based on the results the tested product receives a pass or fail grade.

Test Result Summary: Pass (No fungal growth)

Test ID: RD101835FR

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# **Test Report**

## Selected Tests on Echo Eliminator

Prepared For:

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

> R & D Services, Inc. P.O. Box 2400 Cookeville, Tennessee 38502-2400

> > Report: RD10266

Reviewed by: Ronald & Shaver

Ronald S. Graves Vice President

April 8, 2010

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## Test Report for Resistance to the Growth of Fungi

### **Report Summary**

Material Description: Echo Eliminator ASTM Test Method: <u>C 1338-08</u> Project Number: <u>1175</u> Specimen Number: <u>1175100222-8,9</u> Report Number: <u>RD101835FR</u> Date of Report: <u>April 8, 2010</u> Period of Test: <u>March 2-30, 2010</u> Test Result: <u>Pass</u> Number of Specimens Observed: <u>3</u> Comparative Material: <u>Southern Yellow Pine</u> Fungi Checked for Viability: <u>Yes</u> Regular or Extended Test: <u>Regular</u>

#### Background

The ASTM Standard Specification for many thermal insulations requires a test for the resistance of the insulation to the growth of fungi. Section 10 of C 1497, ASTM C 1338-08, Section 6.6 of ASTM C 1149, or Section 11 of ASTM C 739-08 are commonly used in the case of building materials. Evaluations for fungi growth are based on visual examinations at 40X magnification. The examinations at 40X magnification compare fungal growth on the material being evaluated with the fungal growth on an untreated comparative material that is exposed to the same environment as the test specimens. Both the material being tested and the comparative material are inoculated with a mixed spore suspension containing five specific fungal species to start the test. Since most fungi thrive in a relatively narrow range of temperature and humidity, inoculated specimens and comparative materials are maintained within temperature and relative

humidity ranges specified in the test method for the 28-day growth period. The purpose of the test is to provide an evaluation of the potential for fungal growth present in the insulation material relative to common types of wood used in building construction. The fungal species used in the tests for thermal insulation are listed below.

Aspergillus niger	ATCC 9642
Aspergillus flavus	ATCC 9643
Aspergillus versicolor	ATCC 11730
Penicillium funiculosum	ATCC 11797
Chaetomium globosum	ATCC 6205

A mixed spore suspension is produced from the above five species in accordance with the test method being followed. The viability of each of the five species is verified with each test as required by the test method being used. The ASTM test methods for resistance to fungal growth require a 40X visual comparison of test material and comparative materials 28 days after inoculation. The criteria for a pass/fail result at the end of the 28-day test period depends on the test method being followed.

#### Test using ASTM C 1338-08

Each of the replicate test specimens shall be determined to have either no fungal growth, fungal growth no greater than the comparative material, or fungal growth greater than the comparative material.

#### Results

<u>Specimen</u>	Fungal Growth Comparison
1	No growth.
2	<u>No growth.</u>
3	No growth.

#### The pass/fail result: Pass

Basis for the pass/fail result: Three of three specimens passed.

This R&D Services, Inc. test report and the evaluation contained in the report are limited to the material tested. The extent to which the material tested is representative of the product being manufactured is the sole responsibility of the manufacturer. The test results are not purported to predict the performance of the material in a building or installation.

Karen Mc Culley Evaluation:

Ronald S Shaver Review:

<u>4-8-10</u> Date:

4-8-10 Date:

References:

ASTM C 1338-08, "Standard test Method for Determining Fungi Resistance of Insulation Materials and Facings", Annual Book of ASTM Standards, Vol. 04.06.

ASTM C 1497, "Standard Specification for Cellulosic Fiber Stabilized Thermal Insulation", 2002 Annual Book of ASTM Standards, Vol. 04.06, pp. 849-852.

MIL-STD-810E, Method 508.4, "Fungus", 14 July 1989.

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# **Corrosiveness Test Report**

Test Number: <u>RD101836CO</u>

Date of Test: February 25-March 11, 2010

Specimen Number: <u>1175100222-8</u>

Date of Manufacture: Unknown

Description of Test Specimen: <u>Echo Eliminator</u> Conditioned for > 72 hours at 69.8 +/- 3.6°F and 50 +/- 5% RH

Test Method: <u>ASTM C 739-08</u>, Section 9, "Specification for Cellulosic Fiber Loose-Fill Thermal Insulation."

Report Prepared For: Rendered by Manufacturer and Released to: Acoustical Surfaces, Inc.

Coupon:

Aluminum:

Copper:

Steel:

<u>Pass</u> Pass

Pass

Pass / Fail

Comments:

No holes or perforations.

No holes or perforations.

No holes or perforations.

Ronald & Seaver Reviewed By:

<u>4-8-10</u> Date:

The results in this report apply only to the specimen tested.