



Title: Fire Test Results

Product: Echo Eliminator - Acoustical Backer (AKA Quiet Liner)

Application: Ceiling or Wall

Testing Standard: ASTM E84-01

Test Date: 9/28/2002

Testing Standard: ASTM E84-01

Why this test: 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: Class A, Flame Spread: 5; Smoke Developed: 10

Test ID: 171036

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CLIENT: Rendered by Manufacturer and Released to:
Acoustical Surfaces Inc.
123 Columbia Court North, Suite 201
Chaska, MN 55318

Test Report No. 171036

Date: September 17, 2002

SAMPLE ID: The Client submitted and identified the following test material as Quiet Liner with Black Facing. Note: The black facing was expose to the flame source.

DATE OF RECEIPT: ENTERED into SGS USTC sample tracking system on August 13, 2002 as STN 35200.

TESTING PERIOD: August 28, 2002.

AUTHORIZATION: Testing authorized by Tod Kean.

TEST REQUESTED: Perform standard flame spread and smoke density developed classification tests on the sample supplied by the Client in accordance with ASTM Designation E84-01 "Standard Method of Test for Surface burning Characteristics of Building Materials". The foregoing test procedure is comparable to UL 723, ANSI/NFPA No. 255 and UBC No. 8-1.

| TEST RESULTS: | Flame Spread | Smoke Density |
|----------------------|---------------------------------|----------------------|
| | 5 | 10 |
| | For detailed results see page 2 | |

Tested by:

SIGNED FOR AND ON BEHALF OF
SGS U.S. TESTING COMPANY INC.

Brain Ortega
Test Technician

Greg Banasky
Supervisor Fire Technology

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OPERATION AND CONDITIONING: The sample material was submitted in one piece 24" wide by 24" long conforming to test chamber dimensions. The sample was supported during testing by 2" hexagonal mesh poultry netting running the length of the test chamber and 1/2" round metal rods placed at two foot intervals across the width of the test chamber.

Prior to testing, the specimen was placed in the conditioning room (maintained at 73.4 ±5° F and relative humidity of 50 ±5%) and allowed to reach moisture equilibrium.

SUMMARY OF ASTM E84 RESULTS: Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5.

| SAMPLE IDENTIFICATION | FLAME SPREAD | SMOKE DENSITY |
|--|---------------------|----------------------|
| Quiet Liner Insulation with Black Facing | 5 | 10 |

In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

| FPA Class | UBC Class | Flame Spread |
|------------------|------------------|---------------------|
| A | I | 0 through 25 |
| B | II | 26 through 75 |
| C | III | 76 through 200 |

BUILDING CODES CITED:

- National Fire Protection Association, ASNI/NFPA No. 101, "Life Safety Code" , 1994 Edition.
- Uniform Building Code, 1994 Edition, Chapter 8, Interior Finishes, Sections 801-807.