



SGS U.S. Testing Company Inc.

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REPORT NUMBER: 740458  
DATE: 8/12/96  
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REPORT OF TEST

CLIENT: ILLBRUCK/USA  
3800 Washington Avenue North  
Minneapolis, MN 55412

SUBJECT: FLAME SPREAD CLASSIFICATION AND SMOKE DENSITY DEVELOPED

- REFERENCES:
1. Our confirmation to the Client dated August 7, 1996.
  2. Test samples received on August 1, 1996.
  3. Testing conducted on August 7 & 8, 1996.
  4. Testing authorized by Jeff San George.
  5. Client's Purchase Order No. 6130.

SAMPLE ID: The Client submitted and identified the sample materials as:  
  
5 Sets of Acoustic Panels as described individually on panel backs

TEST PROCEDURE: Perform standard flame spread and smoke density developed classification tests on the samples supplied by the Client in accordance with ASTM Designation E-84-95, "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.

PREPARED BY:  
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Brian Ortega/gb  
Test Technician

SIGNED FOR COMPANY BY:  
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**PREPARATION AND  
CONDITIONING:**

The sample materials were submitted in six pieces each, 24" wide by 48" long, conforming to test chamber dimensions.

The samples were supported during testing by 2" hexagonal mesh poultry netting running the length of the test chamber and 1/4" round metal rods placed at two foot intervals across the width.

Prior to testing, the samples were placed in the conditioning room (maintained at  $73.4 \pm 5^\circ\text{F}$  and a relative humidity of  $50 \pm 5\%$ ) and allowed to reach moisture equilibrium

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**SUMMARY OF  
ASTM E84 RESULTS:**

Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5.

<u>SAMPLE IDENTIFICATION</u>	<u>FLAME SPREAD</u>	<u>SMOKE DENSITY</u>
Urethane Sonex 2" natural	30	340
Urethane Sonex 3" natural	75	360
M0231-1 13.9	25	140
M0231-1 26.4	25	140
M0231-2 27.9	25	160

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

<u>NFPA CLASS</u>	<u>UBC CLASS</u>	<u>FLAME SPREAD</u>
A	I	0 through 25
B	II	26 through 75
C	III	76 through 200

**BUILDING CODES CITED:**

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

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End of Report

REPORT OF TEST