



Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

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We Identify and S.T.O.P. Your Noise Problems

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HUNTINGDON ENGINEERING & ENVIRONMENTAL, INC.
662 Cromwell Avenue
St. Paul, Minnesota 55114

SOUND TRANSMISSION CLASS (STC) – ASTM): E90(90)

Composite Barrier Material

Prepared for:
Architectual Surfaces, Inc./Acoustical Surfaces Inc.
Attn: Steve Anderson
123 Columbia Court North
Chaska, Minnesota 55318

Client Purchase Order Number: 60411
Huntingdon Project Number: 4140 94-1981
Date: June 29, 1994

Purchased By:

Michael S. Karcher
Engineering Technician
Mechanical/Metallurgical Department
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Reviewed By:

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The test results contained in this report pertain only to the samples submitted for testing and not necessarily to all similar products.

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SOUND TRANSMISSION CLASS (STC) – ASTM: E90(90)

INTRODUCTION:

This report presents the results of a Sound Transmission Class (STC) test conducted on a Composite Barrier Material submitted by Architectural Surfaces, Inc. This test was requested by Mr. Steve Anderson of Architectural Surfaces Inc. on June 17, 1994 with the testing conducted on June 20, 1994.

This report must not be reproduced except in full with the approval of Huntingdon Engineering & Environmental, Inc. the data in this report relates only to the item tested.

Huntingdon has been accredited by the U.S. Department of Commerce and the National Institute of Standards and Technology (NIST, formerly NBS) under their National Voluntary Laboratory Accreditation Program (NVLAP) for conducting this test procedure. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEST RESULTS SUMMARY:

The STC of the specimen described below was 29. A tabular and graphical presentation of the data is presented under "TEST RESULTS".

SPECIMEN IDENTIFICATION:

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

Model #: Composite Barrier Material

Nominal Dimensions (W x H x D): 4.5' x 4.5' x 1.25"

Weight: 25 lbs. (1.2 psf)

Specimen Description: – 1' Flat Foam
– Rubber Bonding Material
– 1/4" Flat Foam

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TEST EQUIPMENT:

| <u>Manufacturer</u> | <u>Model</u> | <u>Description</u> | <u>S/N</u> |
|----------------------|--------------|-------------------------------|------------|
| Northern Electronics | NE830 | Real Time Analyzer | |
| Brüel & Kjær | 3923 | Rotating Microphone Boom | 11511 |
| Brüel & Kjær | 4132 | Pressure Condenser Microphone | 815424 |
| Larson-Davis | 2560 | Pressure Condenser Microphone | 239016 |

TEST RESULTS:

| Freq. (Hz) | TL | CL | Def | Freq. (Hz) | TL | CL | Def |
|------------|----|----|-----|------------|----|----|-----|
| 125 | 20 | 3 | 0 | 800 | 27 | 0 | 4 |
| 160 | 21 | 2 | 0 | 1000 | 28 | 1 | 4 |
| 200 | 19 | 2 | 0 | 1250 | 30 | 0 | 3 |
| 250 | 21 | 1 | 1 | 1600 | 32 | 0 | 1 |
| 315 | 22 | 1 | 3 | 2000 | 32 | 0 | 1 |
| 400 | 23 | 1 | 5 | 2500 | 34 | 1 | 0 |
| 500 | 25 | 1 | 4 | 3150 | 37 | 1 | 0 |
| 630 | 25 | 1 | 5 | 4000 | 42 | 1 | 0 |

TOTAL DEFICIENCIES: 31 STC: 29

Where: TL = Transmission Loss (dB)
 CL = 95% Confidence Limit (db)
 Def= Deficiencies (below STC contour)

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