



Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

123 Columbia Court North • Suite 201 • Chaska, MN 55318

(952) 448-5300 • Fax (952) 448-2613 • (800) 448-0121

Email: sales@acousticalsurfaces.com

Visit our Website: www.acousticalsurfaces.com

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

RIVERBANK ACOUSTICAL LABORATORIES

1512 BATAVIA AVENUE
GENEVA, ILLINOIS 60134

OF
IIT RESEARCH INSTITUTE

7081232-0104
FOUNDED 1918 BY
WALLACE CLEMENT SABINE

REPORT

FOR: RENDERED BY MANUFACTURER AND RELEASED TO:
ACOUSTICAL SURFACES, INC.
123 COLUMBIA COURT NORTH, CHASKA, MN 55318

Sound Transmission Loss
Test RAL™-TL91-359

ON: Model #BBC-13-2F,
Composite Absorptive/Barrier

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CONDUCTED: 24 December 1991

TEST METHOD

Unless otherwise designated, the measurements reported below were made with all facilities and procedures in explicit conformity with the ASTM Designations E90-90 and E413-87, as well as other pertinent standards. Riverbank Acoustical Laboratories has been accredited by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) for this test procedure. A description of the measuring technique is available separately. The microphone used was a Bruel & Kjaer serial number 1330828.

DESCRIPTION OF THE SPECIMEN

The test specimen was designated by the manufacturer as Model #BBC-13-2F. The overall dimensions of the specimen as measured were 1.22 m (48.0 in.) wide by 2.44 m (96.5 in.) high and 19.1 mm (2.0 in.) thick. The specimen was placed directly in the laboratory's 1.22 m (4 ft) by 2.44 m (8 ft) test opening and was sealed on the periphery (both sides) with a dense mastic. The manufacturer's description of the specimen was as follows: An absorptive barrier that consisted of a 50.8 mm (2.0 in.) thick quilted fiberglass absorber sewn to one side of a 1 lb/sf reinforced acoustical barrier. The quilted fiberglass absorber was toward the source room. An external, visual inspection verified the manufacturer's description of the specimen. The weight of the specimen as measured was 19.7 kg (43.5 lbs) an average of 6.6 kg/m² (1.3 lbs/ft²). The transmission area used in the calculations was 3.0 m² (32 ft²). The source and receiving room temperatures at the time of the test were 21°C (70±2°F) and 55±2% relative humidity.

THE RESULTS REPORTED ABOVE APPLY ONLY TO THE SPECIFIC SAMPLE SUBMITTED FOR MEASUREMENT. NO RESPONSIBILITY IS ASSUMED FOR PERFORMANCE OF ANY OTHER SPECIMEN.



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United Process, Inc.

RAL™-TL91-359

24 December 1991

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TEST RESULTS

Sound transmission loss values are tabulated at the eighteen standard frequencies. A graphic presentation of the data and additional information appear on the following pages. The precision of the TL test data are within the limits set by the ASTM Standard E90-90.

<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>	<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>
100	17	0.22	0	800	37	0.34	0
125	13	0.48	3	1000	40	0.30	0
160	16	0.29	3	1250	44	0.29	0
200	16	0.37	6	1600	47	0.24	0
250	20	0.34	5	2000	50	0.14	0
315	22	0.32	6	2500	51	0.17	0
400	26	0.43	5	3150	53	0.14	0
500	29	0.32	3	4000	55	0.11	0
630	33	0.34	0	5000	54	0.09	0

STC = 32

ABBREVIATION INDEX

FREQ. = FREQUENCY, HERTZ, (cps)
T.L. = TRANSMISSION LOSS, dB
C.L. = UNCERTAINTY IN dB, FOR A 95% CONFIDENCE LIMIT
DEF. = DEFICIENCIES, dB<STC CONTOUR
STC = SOUND TRANSMISSION CLASS

Reviewed by Diane C. Perrone
Diane C. Perrone
Experimentalist

Submitted by John W. Kopec
John W. Kopec
Supervisor, Riverbank
Acoustical Laboratories

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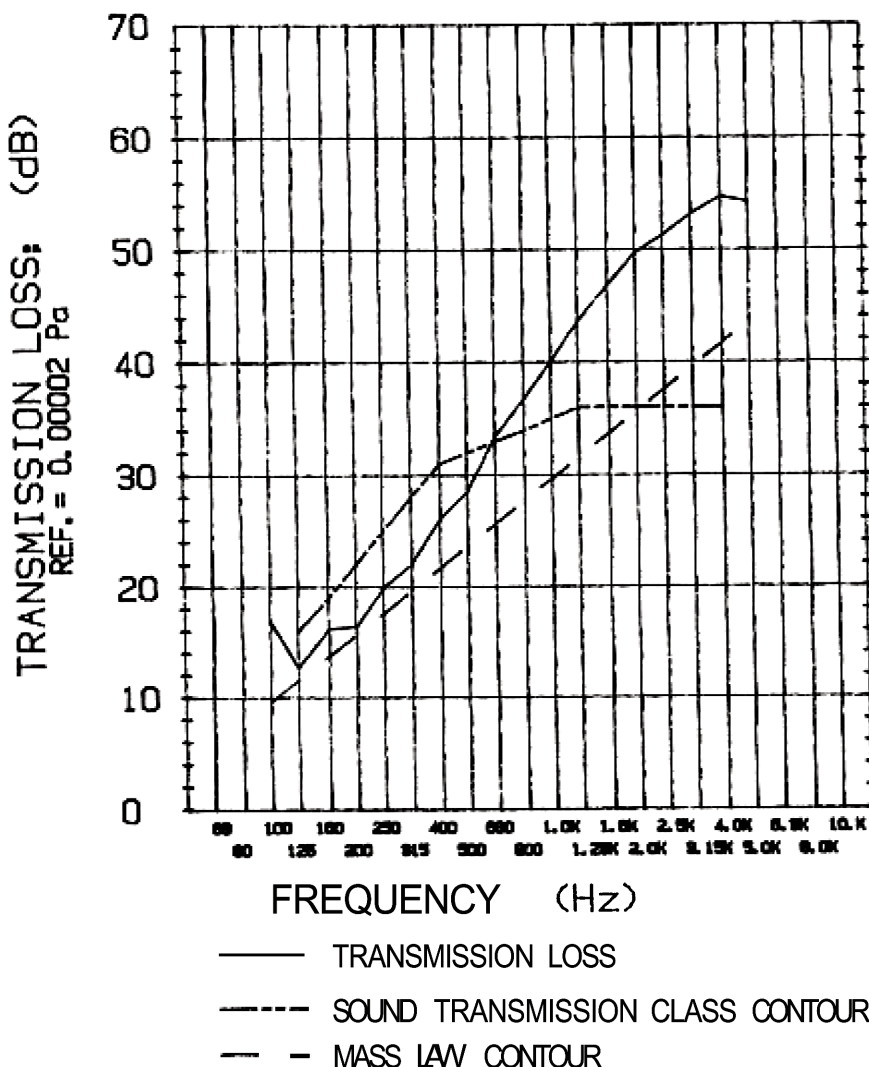
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TRANSMISSION LOSS REPORT

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