

# RIVERBANK ACOUSTICAL LABORATORIES

OF  
IIT RESEARCH INSTITUTE

1512 BATAVIA AVENUE  
EENEVA, ILLINOIS 60134

708/232-0104  
FOUNDED 1918 BY  
WALLACE CLEMENT SABINE

## REPORT

FOR: Troy Acoustics Corporation

Sound Transmission Loss  
Test RAL™-TL95-184

ON: Troy Acoustics Corporation

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CONDUCTED: 16 June 1995

### 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 1440522.

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

**NVLAP**

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ACCREDITATION PROGRAM FOR SELECTED TEST METHODS FOR ACOUSTICS.  
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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	30	1.67	0	800	80	0.35	0
125	41	0.83	8	1000	79	0.29	0
160	52	0.33	0	1250	83	0.25	0
200	56	0.38	0	1600	82	0.25	0
250	60	0.43	0	2000	82	0.20	0
315	64	0.36	0	2500	83	0.20	0
400	69	0.27	0	3150	88	0.15	0
500	71	0.33	0	4000	93	0.13	0
630	74	0.31	0	5000	94	0.11	0

STC = 65

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

Submitted by Peter E. Straus  
Peter E. Straus  
Senior Experimentalist

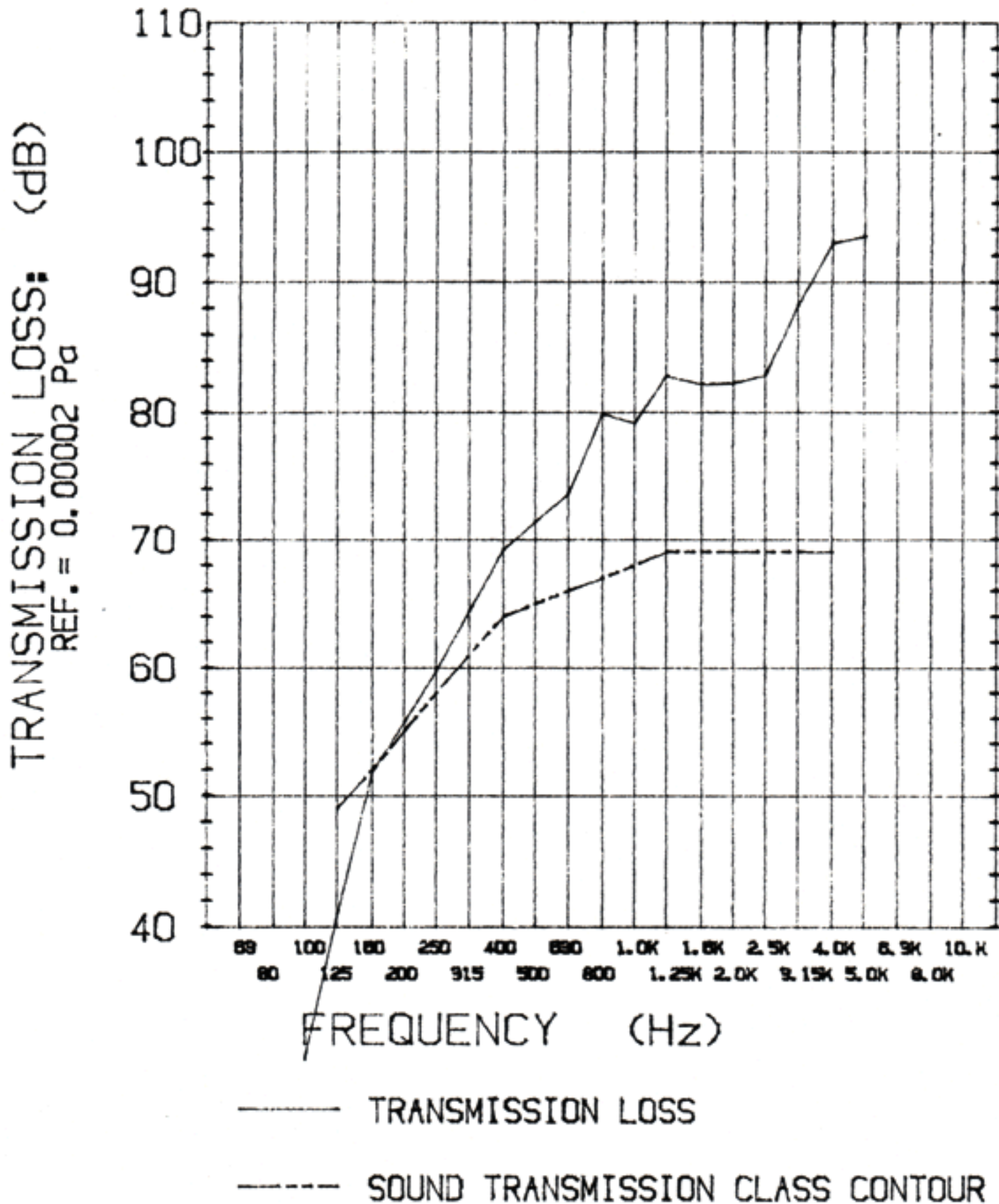
Reviewed by Dean Victor  
Dean Victor  
Senior Experimentalist

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