

# RIVERBANK ACOUSTICAL LABORATORIES

1512 S. BATAVIA AVENUE  
GENEVA, ILLINOIS 60134

OF  
IIT RESEARCH INSTITUTE

630/232-0104  
FOUNDED 1918 BY  
WALLACE CLEMENT SABINE

## TEST REPORT

FOR: Troy Acoustics Corporation

Sound Transmission Loss Test  
RAL™-TL01-116

ON: Troy Highway Noise Barrier - 9 Inch With 5/8 Inch  
Gypsum Board

Page 1 of 3

CONDUCTED: 5 April 2001

### TEST METHOD

Unless otherwise designated, the measurements reported below were made with all facilities and procedures in explicit conformity with the ASTM Designations E90-99 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.

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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 is within the limits set by the ASTM Standard E90-99.

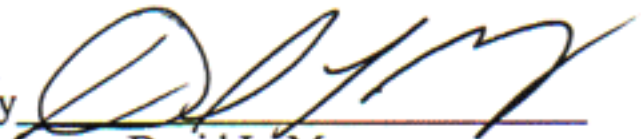
<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>	<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>
100	19	0.15	0	800	49	0.33	0
125	22	0.21	6	1000	55	0.32	0
160	26	0.30	5	1250	59	0.29	0
200	29	0.36	5	1600	63	0.16	0
250	32	0.43	5	2000	63	0.18	0
315	37	0.32	3	2500	64	0.17	0
400	39	0.40	4	3150	69	0.15	0
500	41	0.33	3	4000	74	0.12	0
630	44	0.32	1	5000	79	0.10	0

STC=44

### 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

Tested by   
Dean Victor  
Senior Experimentalist

Approved by   
David L. Moyer  
Laboratory Manager

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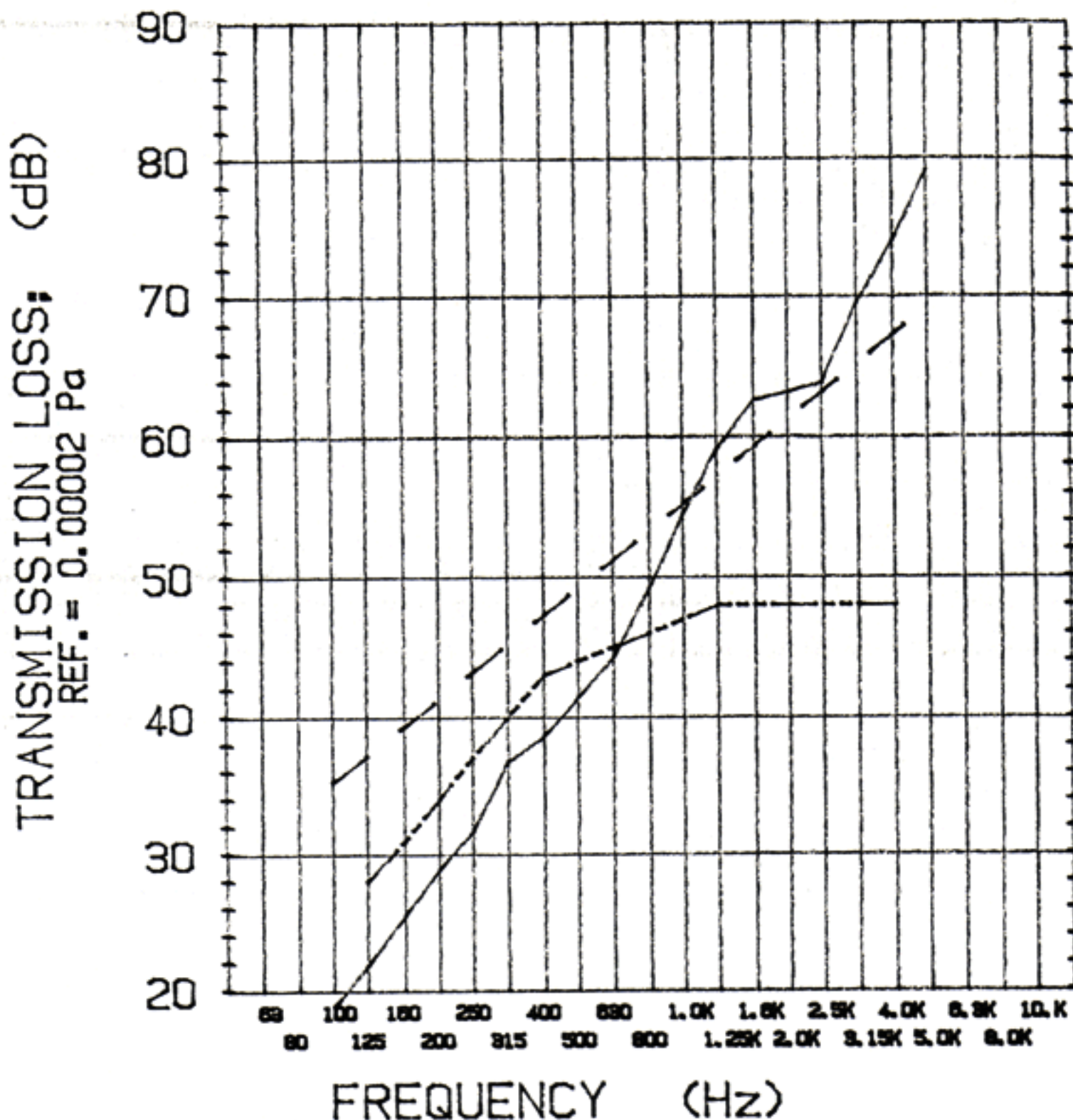


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## TEST REPORT

### TRANSMISSION LOSS REPORT RAL-TL01-116

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- TRANSMISSION LOSS
- - - SOUND TRANSMISSION CLASS CONTOUR
- . - MASS LAW CONTOUR

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