

RIVERBANK ACOUSTICAL LABORATORIES

1512 BATAVIA AVENUE
GENEVA, ILLINOIS 60134

OF
IIT RESEARCH INSTITUTE

708/232-0104
FOUNDED 1918 BY
WALLACE CLEMENT SABINE

REPORT

FOR: Netwell Noise Control

Sound Transmission Loss
Test RAL™-TL94-59

ON: NetLag Duct and Pipe Wrap

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CONDUCTED: 16 March 1994

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 1330658.

DESCRIPTION OF THE SPECIMEN

The test specimen was designated by the manufacturer as NetLag Duct and Pipe Wrap. The overall dimensions of the specimen as measured were 1.22 m (48 in.) wide by 2.44 m (96 in.) high and 25 mm (1 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 description of the specimen was as follows: The sample consisted of a loaded vinyl material with 25 mm (1 in.) thick quilted fiberglass adhered to one side. The construction from front to back was aluminized glass cloth, loaded vinyl, fiberglass insulation, non-porous scrim. A visual inspection verified the description of the specimen. The weight of the specimen as measured was 17.9 kg (39.5 lbs) an average of 6.0 kg/m² (1.2 lbs/ft²). The transmission area used in the calculations for transmission loss was 3.0 m² (32 ft²). The source and receiving room temperatures at the time of the test were 20°C (68±2°F) and 58±3% 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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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.

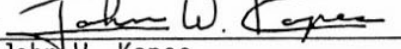
<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>	<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>
100	18	0.14	0	800	28	0.26	3
125	18	0.36	0	1000	30	0.28	2
160	18	0.25	0	1250	34	0.23	0
200	18	0.31	1	1600	36	0.15	0
250	18	0.27	4	2000	39	0.16	0
315	19	0.34	6	2500	41	0.11	0
400	22	0.36	6	3150	44	0.09	0
500	23	0.29	6	4000	46	0.08	0
630	26	0.27	4	5000	47	0.06	0

STC = 29

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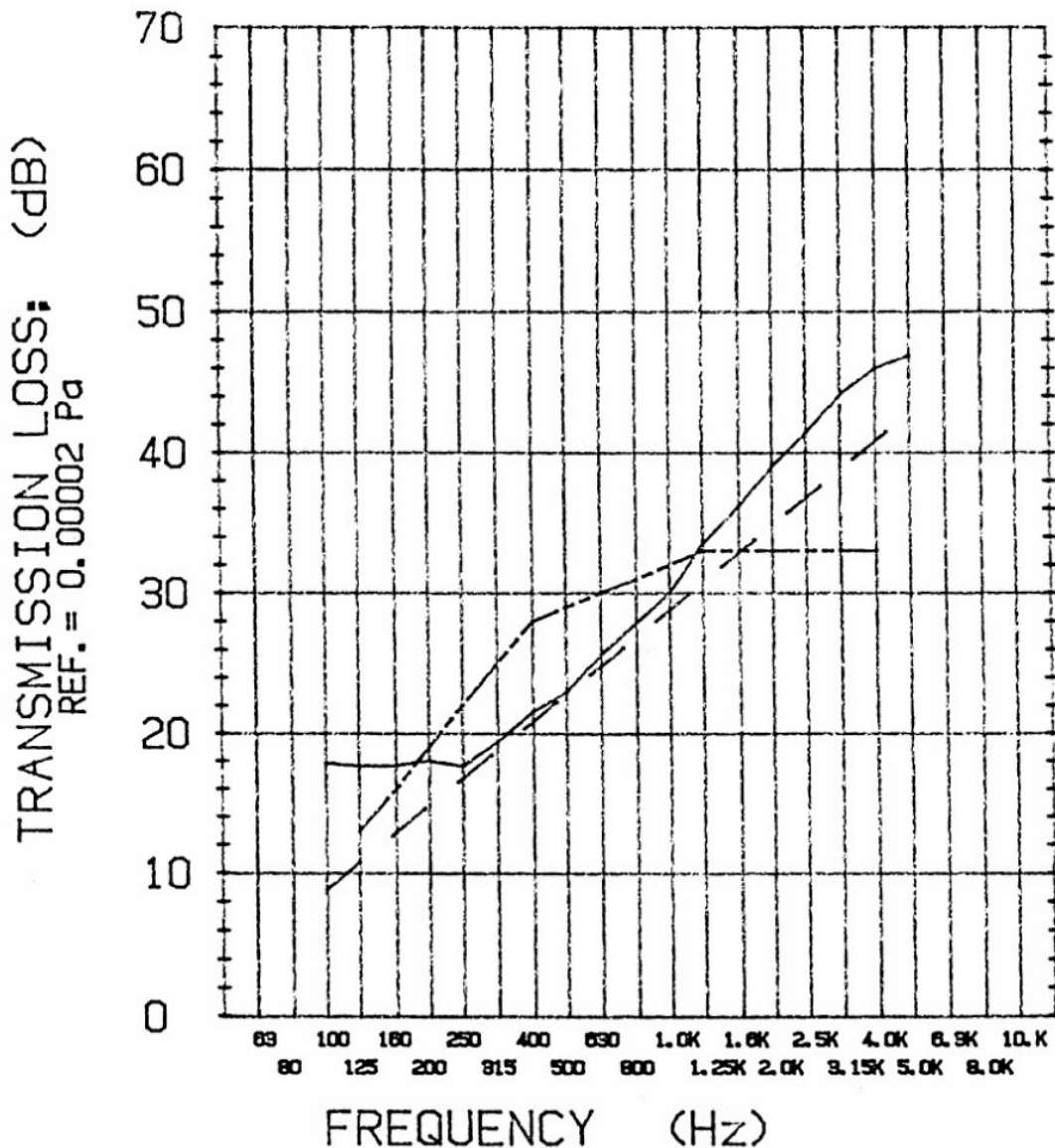
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- TRANSMISSION LOSS
- - - SOUND TRANSMISSION CLASS CONTOUR
- . - MASS LAW CONTOUR

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