

RIVERBANK ACOUSTICAL LABORATORIES

1512 BATAVIA AVE BOX 189

GENEVA, ILLINOIS 60134

312/232/0104

FOUNDED 1918 BY WALLACE CLEMENT SABINE

REPORT

FOR: **Netwell Noise Control**

ON: **dB-Bloc+**

1 lb/ft² (specimen #1)

CONDUCTED: 14 January 1981

Sound Transmission Loss

Test TL 81-4

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TEST METHOD

Unless otherwise designated, the measurements reported below were made with all facilities and procedures in explicit conformity with the American Society for Testing and Materials Designations E 90-75 and E413-73, as well as other pertinent standards.

DESCRIPTION OF THE SPECIMEN

The test specimen was designated by the manufacturer as specimen #1, Wear/Weighted Layer, 1 lb/ft². It was a loaded vinyl material. It had the dimensions of 1.22m (48 in.) wide by 2.44m (96 in) high and nominally 2.38mm (3/32 in.) thick. It was placed directly into the laboratory 1.22m (4 ft.) by 2.44m (8 ft) test opening, and sealed on the periphery (both sides) with a dense mastic. Test specimen #1 is primarily a loaded vinyl with a fabric backing. The test specimen weighed 14.5 kg (32 lbs), an average of 4.8 kg/m² (1 lb/ft²). The transmission area, S, used in the calculations was 2.97 m² (32 ft²).

RESULTS OF MEASUREMENTS:

Sound transmission loss values are tabulated at the eighteen standard frequencies.

	1	1	1	2	2	3	4	5	6	8	1	1	1	2	2	3	4	5
FREQUENCY	0	2	6	0	5	1	0	0	3	0	0	2	6	0	5	1	0	0
Hertz (cps)	0	5	0	0	0	5	0	0	0	0	0	5	0	0	0	5	0	0
											0	0	0	0	0	0	0	0
TRANSMISSION	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3
LOSS, Db	5	5	4	4	6	7	0	1	3	5	6	8	0	3	4	6	8	8
DEFICIENCIES				2	3	5	5	5	4	3	3	2						

SOUND TRANSMISSION CLASS 26

Reviewed by

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Acoustical Engineer

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Acoustical Liaison Engineer

RIVERBANK ACOUSTICAL LABORATORIES

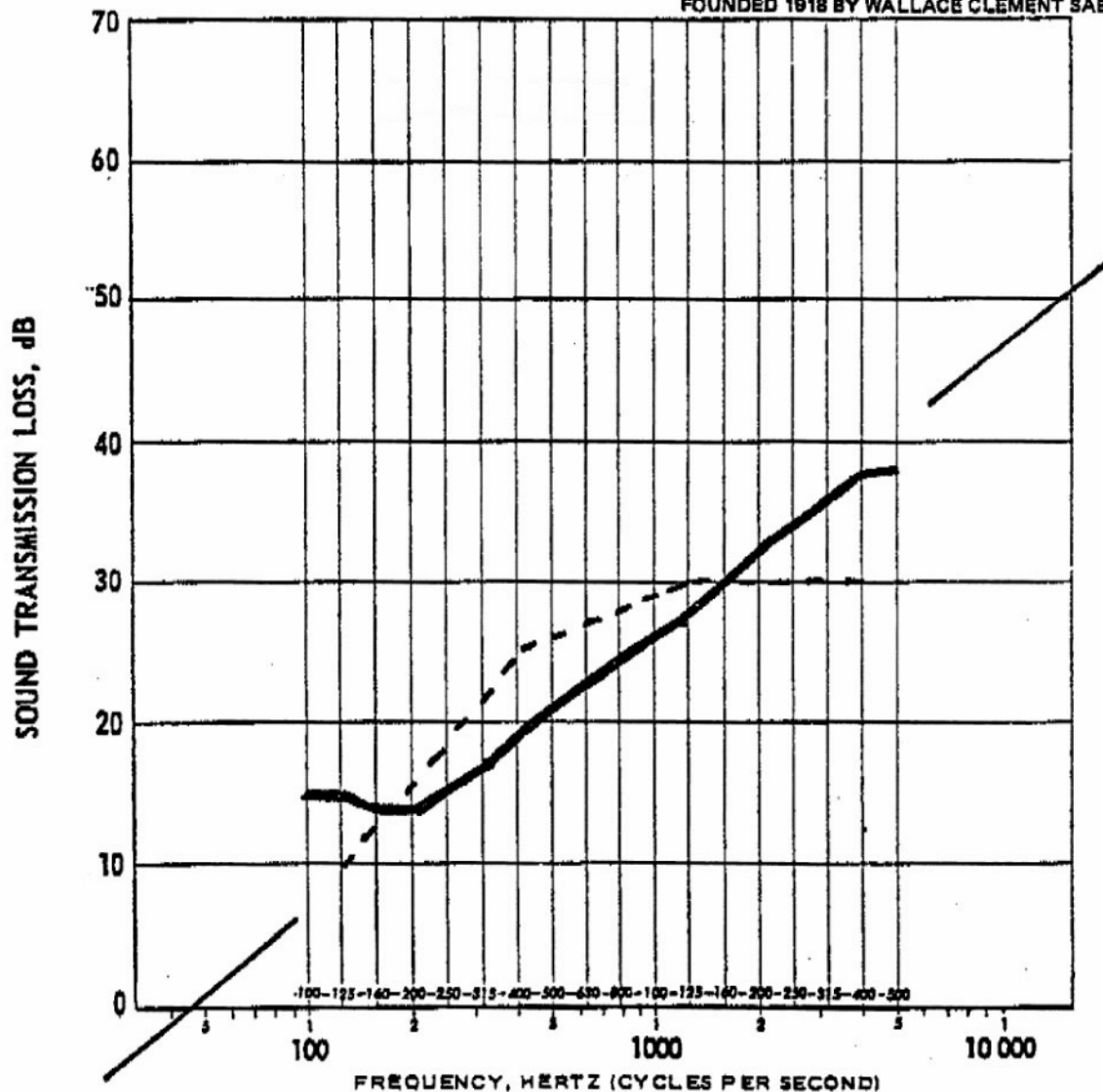
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THE SOUND TRANSMISSION LOSS OF THE TESTED SPECIMEN IS SHOWN BY THE CURVED LINE IN THE ABOVE GRAPH. THE BROKEN LINE IS THE LIMITING SOUND TRANSMISSION CLASS CONTOUR. THE GRAPH WAS PREPARED ON CODEX PAPER NO. 31, 482.

THE THEORETICAL TRANSMISSION LOSS OF THAT LIMP MASS HAVING THE SAME WEIGHT PER SQUARE FOOT AS THE SPECIMEN CAN BE LOCATED BY DRAWING A STRAIGHT LINE BETWEEN THE TWO SLASH MARKS ON THE EDGES OF THE GRID. THIS WAS DERIVED FROM THE EQUATION: $TL = 20 \log W + 20 \log F - 33$. WHERE W IS WEIGHT IN POUNDS PER SQUARE FOOT, AND F IS FREQUENCY IN HERTZ (CYCLES PER SECOND).