

RIVERBANK ACOUSTICAL LABORATORIES

1512 BATAVIA AVENUE
GENEVA, ILLINOIS 60134

OF
IIT RESEARCH INSTITUTE

708/232-0104
FOUNDED 1918 BY
WALLACE CLEMENT SABINE

REPORT

FOR: Overly Manufacturing Company

Sound Transmission Loss
Test RAL™-TL92-276

ON: Acoustical Vision Light Panel
Model Number STC4292276

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CONDUCTED: 15 September 1992

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 an acoustical vision light panel Model number STC4292276. The overall dimensions of the specimen (less adaptor frame) were 914 mm (36 in.) wide by 2.13 m (84 in.) high and 203 mm (8 in.) deep. The specimen was placed directly in the client's adaptor frame and tested in the 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: A single glazed, 19 mm (0.75 in.) thick laminated light mounted in a composite frame assembly that incorporated zipper gaskets with a 14 gauge solid steel jamb, 16 gauge loose stops, plus loose stop mud plates. A manufacturer's detailed drawing file number 0667, page 4 of 13 is maintained on file. At the request of the manufacturer the details of the construction were purposely withheld from this report in order that the manufacturer may control full proprietary rights regarding the product. The weight of the specimen (glass and glazing only) as calculated was 124 kg (273.5 lbs). The total weight of the unit (including 4-sided frame, glass and glazing) was 188.6 kg (416 lbs) an average of 78.6 kg/m² (15.8 lbs/ft²). The transmission area used in the calculations was 1.95 m² (21 ft²). The source and receiving room temperatures at the time of the test were 23°C (73±2°F) and 60±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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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.

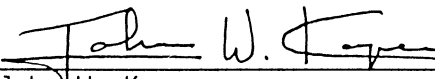
<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>	<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>
100	32	0.32	0	800	38	0.29	6
125	33	0.32	0	1000	37	0.27	8
160	35	0.39	0	1250	41	0.20	5
200	35	0.41	0	1600	46	0.18	0
250	34	0.43	1	2000	49	0.18	0
315	36	0.42	2	2500	52	0.17	0
400	38	0.38	3	3150	54	0.11	0
500	39	0.35	3	4000	56	0.10	0
630	39	0.29	4	5000	58	0.08	0

STC = 42

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

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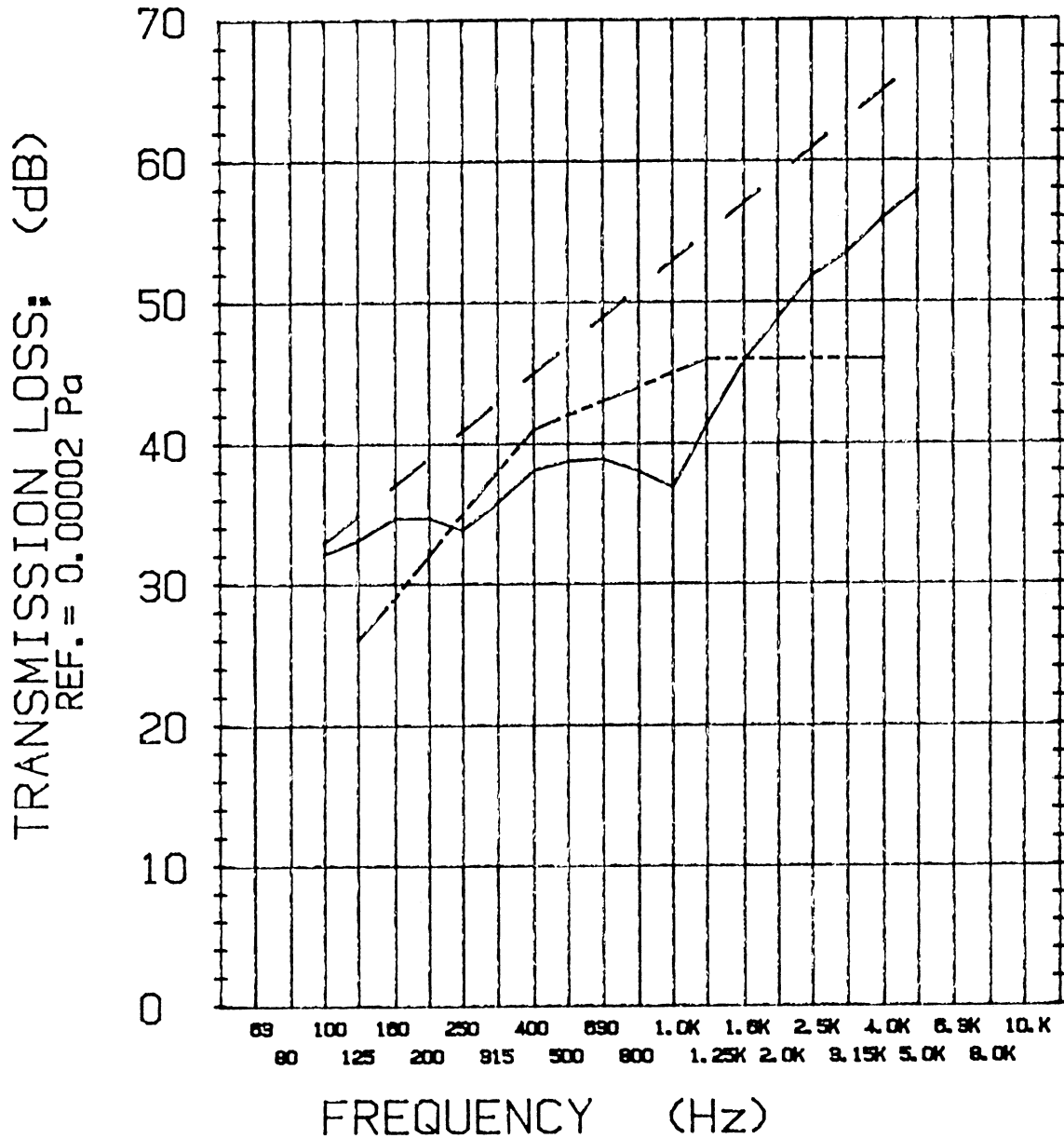
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TRANSMISSION LOSS REPORT

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

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