

REPORT

FOR: Badger Cork
ON: Wood Flooring With Badger Cork
6 mm AcoustiCORK® On 6" Concrete Slabs

Sound Transmission Loss
Test RAL™-TL98-27

Page 1 of 3

CONDUCTED: 5 February 1998

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 951371

DESCRIPTION OF THE SPECIMEN

The test specimen was designated as wood flooring with Badger Cork 6 mm AcoustiCORK underlayment on 6" concrete slabs. The overall dimensions of the specimen were nominally 4.27 m (168 in.) wide by 6.10 m (240 in.) long and 173 mm (6.8 in.) thick. The specimen was constructed directly in the laboratory's 4.27 m (14 ft) by 6.10 m (20 ft) test opening and was sealed on the periphery (both sides) with a dense mastic. The description of the specimen was as follows: From the top down, the floor consisted of 14 mm (0.56 in.) thick pre-finished wood flooring set on Badger Cork 6 mm (0.236 in.) thick, AcoustiCORK underlayment. The 6 mm AcoustiCORK was set directly on the concrete slab sub-floor. The sub-floor consisted of ten nominally 610 mm (24 in.) wide by 4.23 m (166.5 in.) by 152 mm (6 in.) thick wire reinforced concrete slabs. The weight of the entire specimen as calculated was 9,717 kg (21,421.5 lbs) an average of 373.7 kg/m² (76.5 lbs/ft²). The transmission area used in the calculations was 2.6 m² (28.5 ft²). The source and receiving room temperatures at the time of the test were 19°C (67±2°F) and 51±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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ACCREDITATION PROGRAM FOR SELECTED TEST METHODS FOR ACOUSTICS.
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REPORT

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Page 2 of 3

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	29	0.07	0	800	62	0.28	0
125	33	0.16	3	1000	66	0.24	0
160	40	0.26	0	1250	69	0.21	0
200	38	0.18	4	1600	71	0.20	0
250	39	0.32	6	2000	75	0.18	0
315	42	0.29	6	2500	79	0.14	0
400	45	0.32	6	3150	83	0.11	0
500	49	0.34	3	4000	85	0.10	0
630	57	0.35	0	5000	86	0.06	0

STC = 52

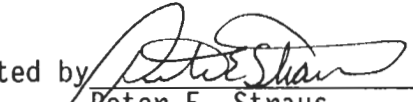
ABBREVIATION INDEX

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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