

REPORT

FOR: Badger Cork

Sound Transmission Loss
Test RAL™-TL95-126ON: Badger Cork 6 mm AcoustiCORK®
Underlayment With Parquet Flooring
On A California Lightweight FloorPage 1 of 3

CONDUCTED: 20 April 1995

Revision 17 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 1440522.

DESCRIPTION OF THE SPECIMEN

The test specimen was designated as Badger Cork 6 mm AcoustiCORK underlayment with Parquet Flooring on a California lightweight floor. The overall dimensions of the specimen were nominally 4.27 m (168 in.) wide by 6.10 m (240 in.) long and 344 mm (13.5 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 8 mm (0.313 in.) thick, TOPFLOOR® urethane coated genuine oak parquet flooring glued to Badger Cork 6 mm (0.236 in.) thick, AcoustiCORK underlayment. The 6 mm AcoustiCORK was laid on a nominally 41 mm (1.625 in.) thick, 111.6 pcf density Gyp-Crete 2000 floor. The Gyp-Crete 2000 was poured over a layer of 15# roofing felt which was laid directly on the 19/32 plywood sheathing sub-floor. The plywood was attached to two-by-ten wood joists that were spaced on 406 mm (16 in.) centers. The cavities between the joists contained 89 mm (3.5 in.) thick R-11 fiberglass insulation batt. RC-1 resilient channels were attached to the joists and the 16 mm (0.625 in.) thick Type X drywall ceiling was attached to the RC-1 channels. The specimen was allowed to cure a minimum of 28 days prior to testing. A visual inspection verified the description of the specimen. The weight of the entire specimen as determined was 3024.6 kg (6668 lbs) an average of 116.3 kg/m² (23.8 lbs/ft²). The transmission area used in the calculations was 26 m² (280 ft²). The source and receiving room temperatures at the time of the test were 23°C (73±2°F) and 58±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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TEST RESULTS

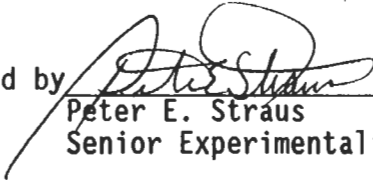
Sound transmission loss values are tabulated at the eighteen standard frequencies. A graphic presentation of the data and additional information appear on the following pages. The precision of the TL test data are within the limits set by the ASTM Standard E90-90.

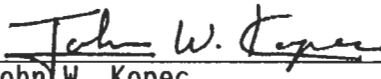
<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>	<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>
100	27	0.12	0	800	64	0.26	0
125	43	0.12	0	1000	68	0.28	0
160	43	0.22	3	1250	72	0.22	0
200	44	0.18	5	1600	75	0.20	0
250	47	0.13	5	2000	77	0.18	0
315	50	0.30	5	2500	80	0.14	0
400	51	0.27	7	3150	84	0.11	0
500	56	0.31	3	4000	86	0.12	0
630	60	0.27	0	5000	87	0.10	0

STC = 59

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 
 Peter E. Straus
 Senior Experimentalist

Reviewed by 
 John W. Kopec
 Laboratory Manager

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