

**REPORT**

FOR: Badger Cork

Impact Sound Transmission  
Test RAL™-IN95-19ON: Badger Cork 6 mm AcoustiCORK®  
Underlayment With Parquet Flooring  
On A California Lightweight FloorPage 1 of 3

Revision 17 February 1998

CONDUCTED: 20 April 1995

TEST METHOD

Unless otherwise designated, the measurements reported below were made with all facilities and procedures in explicit conformity with the ASTM Designations E492-90 and E989-89, 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 serial number of the measuring microphone was 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/m<sup>2</sup> (23.8 lbs/ft<sup>2</sup>). 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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Badger Cork

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20 April 1995

Page 2 of 3

Revision 17 February 1998

TEST RESULTS

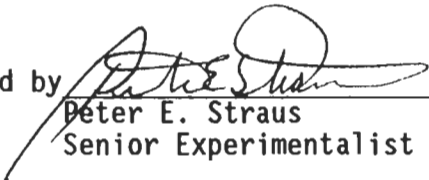
Sound pressure levels at 1/3 octave intervals, normalized to 10 square meters, are given in tabular form. The impact insulation class, IIC, was computed in accordance with ASTM E989-89 and ASTM E492-90.

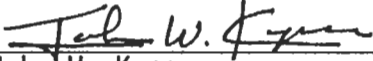
<u>FREQ.</u>	<u>ISL</u>	<u>C.L.</u>	<u>DEV.</u>	<u>FREQ.</u>	<u>ISL</u>	<u>C.L.</u>	<u>DEV.</u>
100	66	0.34	8	630	37	0.15	0
125	59	0.33	1	800	31	0.20	0
160	58	0.19	0	1000	27	0.26	0
200	54	0.22	0	1250	23	0.22	0
250	53	0.28	0	1600	19	0.19	0
315	50	0.18	0	2000	18	0.24	0
400	49	0.28	0	2500	20	0.31	0
500	45	0.19	0	3150	14	0.31	0

IIC = 54

## ABBREVIATION INDEX

FREQ. = FREQUENCY, HERTZ, (cps)  
 ISL = IMPACT SOUND PRESSURE LEVEL, dB  
 C.L. = UNCERTAINTY IN dB, FOR A 95% CONFIDENCE LIMIT  
 DEV. = DEVIATION  
 IIC = IMPACT INSULATION CLASS

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