

Test Report

FOR: **Proflex Products Inc.**
Brandon, FL

Impact Sound Transmission
RAL-IN07-011

CONDUCTED: 2007-11-30

Revised 2016-11-14

Page 1 of 4

ON: 1/2" Wood Flooring over Proflex PWA 700 Wood Flooring Adhesive and Moisture Control System (No Ceiling)

TEST METHOD

The measurements reported below were made with all facilities and procedures in explicit conformity with the ASTM Designations E492-04 and E989-06, 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 (NVLAP Lab Code: 100227-0). A description of the measuring technique is available separately.

DESCRIPTION OF THE SPECIMEN

The test specimen was designated as 1/2" Wood Flooring over Proflex PWA 700 Wood Flooring Adhesive and Moisture Control System (No Ceiling). The overall dimensions of the specimen as measured were nominally 4.27 m (168 in.) wide by 6.10 m (240 in.) high and 165 mm (6.5 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 weight of the specimen as measured was 8,904 kg (19,630.5 lbs.), an average of 342.3 kg/m² (70 lbs/ft²). The area of the specimen was 26 m² (280 ft²). The source and receiving room temperatures at the time of the test were 24±1°C (75±1°F) and 54±2% relative humidity. The source and receive reverberation room volumes were 140 m³ (4,929 ft³) and 87 m³ (3,073 ft³), respectively.

The description of the specimen was as follows: From the top down, the floor consisted of 12.7 mm (0.5 in.) thick multi-ply engineered wood flooring, Proflex PWA 700 Wood Flooring Adhesive, and 152 mm (6 in.) thick wire reinforced concrete. A more detailed description of the test assembly appears in the following sections.

Prefinished Engineered Wood Flooring

The finished floor consisted of 12.7 mm (0.5 in.) thick prefinished engineered wood flooring, provided as 76 mm (3 in.) wide by 1.22 m (48 in.) long planks with tongue and groove edging. Weight of the wood floor was 204 kg (450 lbs).



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Test Report

Proflex Products Inc.
2007-11-30

RAL-IN07-011
Page 2 of 4

Adhesive

The attachment system consisted of Proflex PWA 700 wood flooring adhesive applied as follows: Using a V-notch trowel (3/16" x 5/32") a pre-coat of Proflex PWA 700 was applied and allowed to cure overnight; the engineered wood was then installed over this pre-coat by applying a second coat of adhesive using a 3/16" x 1/4" x 1/2" flat V trowel and laying the engineered wood in the wet adhesive. Nominal thickness of the adhesive was measured as 2.5 mm (0.1 in.). Weight of the adhesive system when applied was 101 kg (222.5 lbs)

Concrete Floor

The concrete slab sub-floor consisted of ten nominally 610 mm (24 in.) wide by 4.23 m (166.5 in.) long by 152 mm (6 in.) thick wire reinforced concrete slabs. Weight of the concrete slab was 8,599 kg (18,958 lbs).



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Test Report

Proflex Products Inc.
 2007-11-30

RAL-IN07-011
 Page 3 of 4

TEST RESULTS

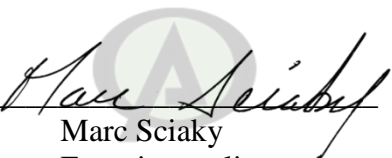
Sound pressure levels at 1/3 octave intervals, normalized to 10 square meters, are given in tabular form. The impact insulation class, IIC, was computed in accordance with ASTM E989-89 and ASTM E492-04.

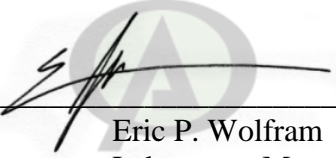
<u>FREQ.</u>	<u>Ln</u>	<u>C.L.</u>	<u>DEV</u>	<u>FREQ.</u>	<u>Ln</u>	<u>C.L.</u>	<u>DEV</u>
100	64	1.52	4	800	57	0.55	1
125	62	1.17	2	1000	54	0.44	
160	63	0.72	3	1250	49	0.47	
200	61	0.68	1	1600	44	0.93	
250	63	1.14	3	2000	41	0.83	
315	64	0.96	4	2500	35	0.70	
400	64	0.53	5	3150	30	0.61	
500	63	0.54	5	4000	26	0.80	
630	60	0.58	3	5000	20	0.57	

IIC=52

ABBREVIATION INDEX

- FREQ. = FREQUENCY, HERTZ, (cps)
- Ln = NORMALIZED IMPACT SOUND PRESSURE LEVEL, dB
- C.L. = UNCERTAINTY IN dB, FOR A 95% CONFIDENCE LIMIT
- DEV. = DEVIATION, dB > IIC CONTOUR (SUM OF DEV = 31)
- IIC = IMPACT INSULATION CLASS
- * = INDICATES A CORRECTION HAS BEEN APPLIED TO DATA DUE TO BACKGROUND NOISE LEVELS

Tested by 
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 Experimentalist

Approved by 
 Eric P. Wolfram
 Laboratory Manager



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Page 4 of 4

APPENDIX A: Revisions to Original Test Report

Specimen: 1/2” Wood Flooring over Proflex PWA 700 Wood Flooring Adhesive and Moisture Control System (No Ceiling) (See Full Report)

<u>Date</u>	<u>Revision</u>
2016-11-14	Page 1-3: The designation was changed to “1/2” Wood Flooring over Proflex PWA 700 Wood Flooring Adhesive and Moisture Control System (No Ceiling)” based on certification from customer that the products identified have not changed in materials, composition, or manufacturing methods since the original test date and that the new specimen sold under the private label agreement is exactly identical to the original specimen in the test report and sourced from the same manufacturing process.



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