

# JONA PANEL SALES INC. ACOUSTICAL PERFORMANCE TEST REPORT

**SCOPE OF WORK**

ASTM E2179 TESTING ON  
3100LVT - 1.5 MM WHISPER WALK LVT UNDERLAYMENT

**SPECIMEN TYPE**

Concrete Slab - 152 mm

**REPORT NUMBER**

H5779.01-113-11-R0

**TEST DATE**

09/15/17

**ISSUE DATE**

09/20/17

**RECORD RETENTION END**

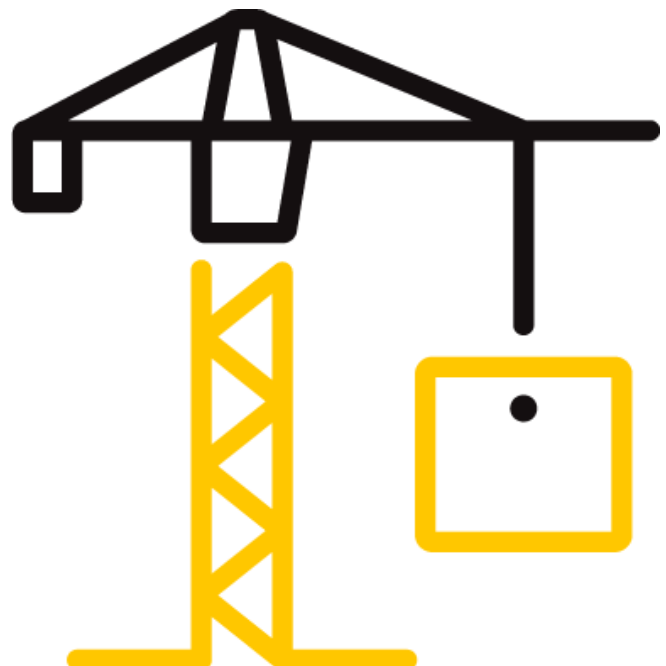
09/15/21

**PAGES**

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**DOCUMENT CONTROL**

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## TEST REPORT FOR JONA PANEL SALES INC.

Report No.: H5779.01-113-11-R0

Date: 09/20/17

### REPORT ISSUED TO

#### JONA PANEL SALES INC.

200-3275 Lakeshore Road

Kelowna, British Columbia V1W 3T1 CANADA

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by to perform testing in accordance with ASTM E2179 on 3100LVT - 1.5 mm Whisper Walk LVT Underlayment. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted in the VT test chambers at Intertek B&C located in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

### SECTION 2

#### SUMMARY OF TEST RESULTS

<b>DATA FILE NO.</b>	H5779.01
<b>SERIES/MODEL:</b>	3100LVT - 1.5 mm Whisper Walk LVT Underlayment
<b>ΔIIC</b>	21

<b>COMPLETED BY:</b>	Jeremy L. Amend
<b>TITLE:</b>	Technician II - Acoustical Testing
<b>SIGNATURE:</b>	
<b>DATE:</b>	09/20/17

<b>COMPLETED BY:</b>	Jordan Strybos
<b>TITLE:</b>	Project Manager - Acoustical Testing
<b>SIGNATURE:</b>	
<b>DATE:</b>	09/20/17

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**SECTION 3****TEST METHOD(S)**

The specimen was evaluated in accordance with the following:

**ASTM E492-09(2016)e1**, *Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine*

**ASTM E2179-03(2016)**, *Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors*

**ASTM E2235-04 (2012)**, *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods*

**SECTION 4****MATERIAL SOURCE/INSTALLATION**

The full test specimen was assembled on the day of testing by B&C. All materials provided by the client were installed on an existing B&C assembly (Concrete Slab - 152 mm) utilizing B&C-supplied materials. The assembly was installed in a steel test frame which was installed into the opening between the source and receive rooms in the test chamber. The test frame was isolated from the structure with dense neoprene gasket.

The total weight of the floor/ceiling assembly was 4106.9 kg. B&C will store samples of the test specimen for four years. Photographs of the test specimen are included in the attachments. A drawing of the test specimen is included in the attachments.

B&C will service this report for the entire test record retention period. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained by B&C for the entire test record retention period.

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**SECTION 5  
EQUIPMENT**

INSTRUMENT	MANUFACTURER	MODEL	DESCRIPTION	ASSET #	CAL DATE
Data Acquisition Unit	National Instruments	PXI-1033	Data Acquisition Card	63763-1	06/16 *
Data Acquisition Unit	National Instruments	PXI-4462	Input Card	63763-4	07/16 *
Data Acquisition Unit	Norsonic	PXI-4462	Input Card	63763-5	06/16 *
Microphone Calibrator	Norsonic	1251	Pistonphone calibrator	INT00127	03/17
Receive Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	65617	05/17
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	63744	05/17
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	63745	05/17
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64340	08/17
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	63747	05/17
Receive Room Environmental Indicator	Comet	T7510	Temperature and Humidity Transmitter	63810	10/16
				63811	10/16
Source Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	63738	04/17
Source Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	63739	04/17
Source Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	63740	04/17
Source Room Microphone	Comet	378B20	Microphone and Preamplifier	63742	04/17
Source Room Microphone	PCB Electronics	378B20	Microphone and Preamplifier	63741	04/17
Source Room Environmental Indicator	PCB Piezotronics	T7510	Temperature and Humidity Transmitter	63812	11/16
Tapping Machine	PCB Piezotronics	EM50 (TM50)	Tapping Machine	65351	02/17

\* The calibration frequency for this equipment is every two years per the manufacturer's recommendation.

<b>VT RECEIVE ROOM VOLUME</b>	158.86 m <sup>3</sup>
<b>VT SOURCE ROOM VOLUME</b>	190 m <sup>3</sup>

**SECTION 6  
LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Jeremy L. Amend	Intertek B&C
Jordan Strybos	Intertek B&C

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**SECTION 7  
TEST PROCEDURE**

The microphones were calibrated before conducting the tests. The air temperature and relative humidity conditions were monitored and recorded during all measurements.

The delta impact insulation test was conducted in accordance with ASTM E2179 test method. In addition to the impact sound transmission test, two sound pressure level measurements with the tapping machine operating at each position specified by ASTM E492 with only the concrete slab installed were conducted at each of five microphone positions.

Detailed test procedures, data for flanking limit tests, repeatability measurements, and reference specimen tests are available upon request.

**SECTION 8  
TEST CALCULATIONS**

The ΔIIC (Delta Impact Insulation Class) rating was calculated in accordance with ASTM E2179.

**SECTION 9  
TEST SPECIMEN DESCRIPTION**

MATERIAL	Dimensions (mm/inch)	Thickness (mm/inch)	MANUFACTURER AND SERIES	QUANTITY	AVERAGE WEIGHT
Vinyl Plank Flooring	1210 by 220	7.0	Lifeproof Waterproof Rigid Core	10.98 m <sup>2</sup>	7.62 kg/m <sup>2</sup>
	Note: Adhered to the sheeting with Roberts 6300 Pressure Sensitive Adhesive, which was spread using a 1.59 mm square-notch trowel. Adhesive was allowed to cure per manufacturer's specifications.				
LVT Underlayment	3023 by 1168	1.5	3100LVT Whisper Walk	10.98 m <sup>2</sup>	0.24 kg/m <sup>2</sup>
	Note: 2 mil polyethylene plastic sheeting was adhered to the floor slab with 3M Super 77 spray adhesive. The underlayment was adhered to the sheeting with Roberts 6300 Pressure Sensitive Adhesive, which was spread using a 1.59 mm square-notch trowel. Adhesive was allowed to cure per manufacturer's specifications.				
Concrete Slab	3023 by 3632	152.4	5000 PSI	10.98 m <sup>2</sup>	366.18 kg/m <sup>2</sup>
	Note: Installed in a test frame flush to the source room. Mats of #5 reinforcing bars were placed 25.4 mm from both the top and bottom of the slab, with bars spaced on 305 mm centers in both directions.				

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### SECTION 10

#### TEST RESULTS - DELTA IMPACT INSULATION



<b>TEST DATE</b>	9/15/2017				
<b>DATA FILE NO.</b>	H5779.01				
<b>CLIENT</b>	Jona Panel Sales Inc.				
<b>DESCRIPTION</b>	7 mm Lifeproof Waterproof Rigid Core Vinyl Plank Flooring, 1.5 mm 3100LVT Whisper Walk LVT Underlayment, 152.4 mm 5000 PSI Concrete Slab				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Maximum Temp.</b>	21.2°C	<b>Minimum Temp.</b>	20.1°C
<b>TECHNICIAN</b>	JLA	<b>Max. Humidity</b>	68%	<b>Min. Humidity</b>	63%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION m <sup>2</sup>	NORMALIZED IMPACT SPL BARE (dB)	95% CONF LIMIT	NORMALIZED IMPACT SPL SPEC (dB)	95% CONF LIMIT	RESULT ARRAY L <sub>ref,c</sub>	NUMBER OF DEFICIENCIES
100	35.3	13.3	58.8	2.0	55.9	1.6	64.0	1
125	34.1	10.1	59.6	1.7	57.6	1.2	65.0	2
160	28.9	10.3	65.6	1.2	63.5	1.3	66.0	3
200	28.3	11.3	68.4	0.9	65.8	1.1	66.0	3
250	30.7	11.1	70.9	1.3	67.7	1.1	66.0	3
315	24.5	9.6	69.7	0.8	66.6	0.9	66.0	3
400	25.5	7.8	68.4	0.5	65.4	0.5	67.0	5
500	26.2	7.6	67.3	0.4	61.6	0.4	65.0	4
630	24.7	7.4	69.4	0.5	58.5	0.6	60.0	0
800	24.2	7.5	70.4	0.8	54.9	0.8	56.0	0
1000	23.4	7.3	70.3	0.4	51.3	0.4	53.0	0
1250	22.3	7.2	70.6	0.5	47.8	0.4	49.0	0
1600	19.1	7.4	71.6	0.4	44.3	0.5	45.0	0
2000	16.6	8.3	72.5	0.6	41.4	0.5	41.0	0
2500	10.2	9.1	73.2	0.8	35.7	0.7	35.0	0
3150	7.5	9.8	72.6	0.9	29.5	0.9	29.0	0

**Notes:** Receive Room levels less than 5 dB above the Background levels are highlighted in yellow.

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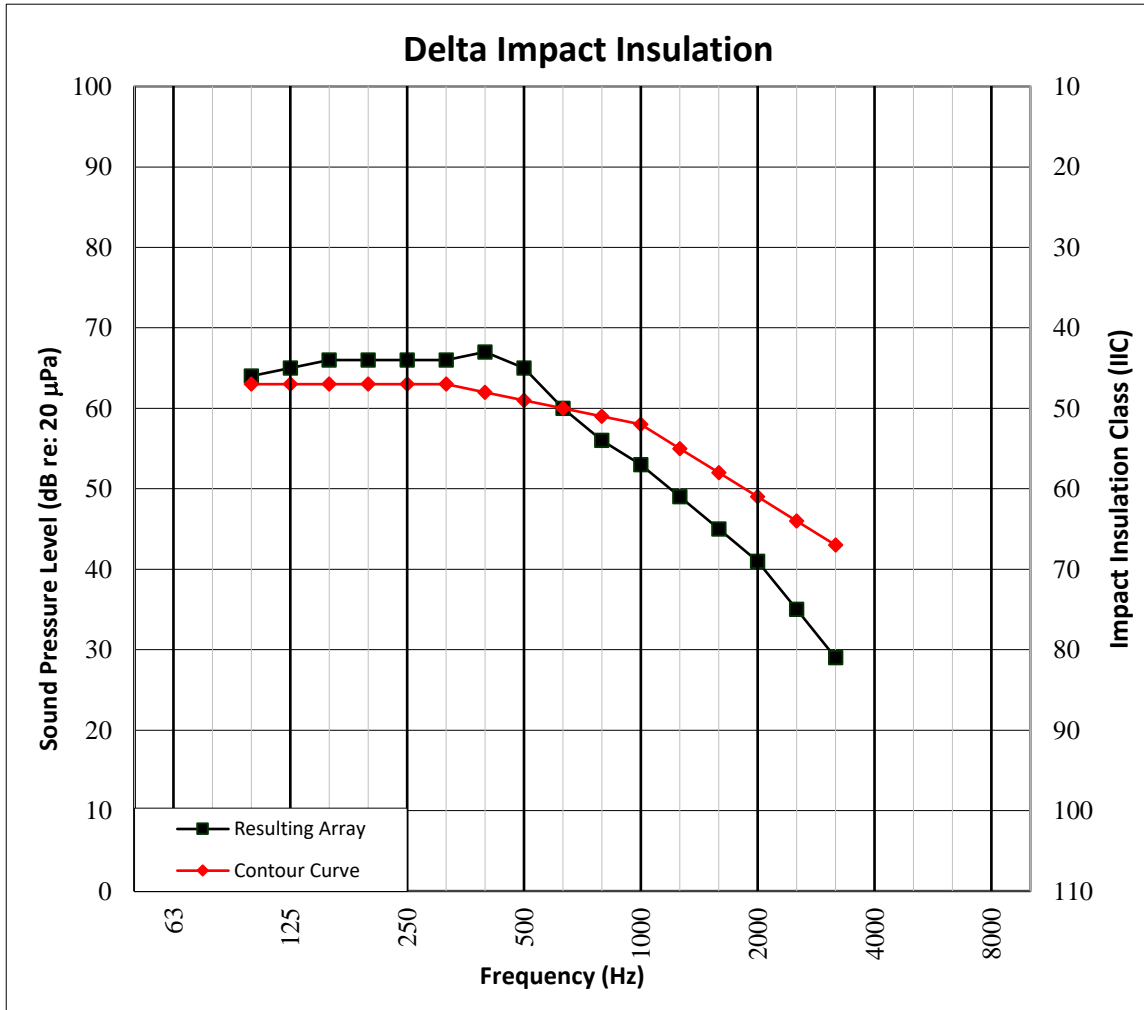
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### SECTION 11

#### TEST RESULTS - DELTA IMPACT INSULATION GRAPH



<b>TEST DATE</b>	9/15/2017				
<b>DATA FILE NO.</b>	H5779.01				
<b>CLIENT</b>	Jona Panel Sales Inc.				
<b>DESCRIPTION</b>	7 mm Lifeproof Waterproof Rigid Core Vinyl Plank Flooring, 1.5 mm 3100LVT Whisper Walk LVT Underlayment, 152.4 mm 5000 PSI Concrete Slab				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Maximum Temp.</b>	21.2°C	<b>Minimum Temp.</b>	20.1°C
<b>TECHNICIAN</b>	JLA	<b>Max. Humidity</b>	68%	<b>Min. Humidity</b>	63%



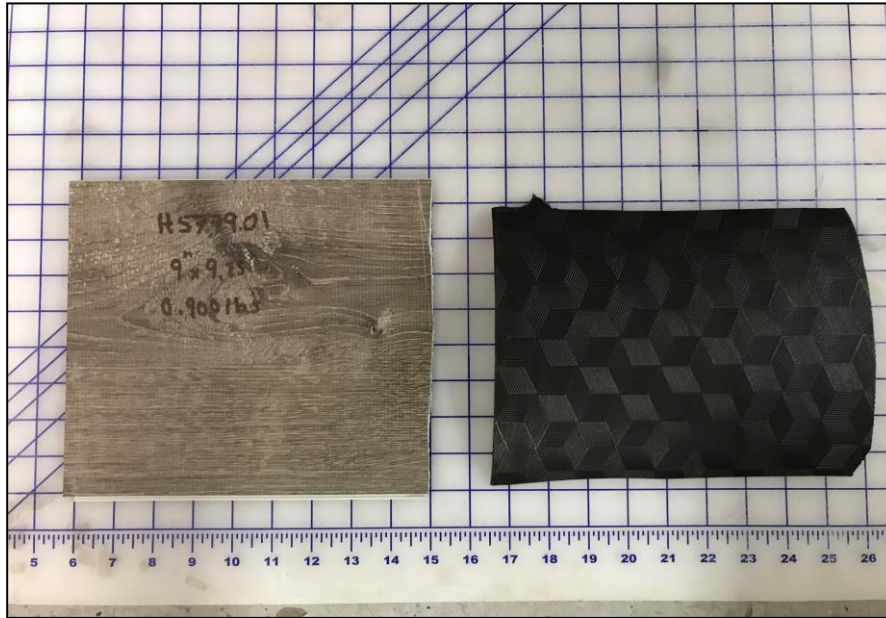
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**SECTION 12**

**PHOTOGRAPHS**



**Photo No. 1**  
**Close-Up of Test Specimen**



**Photo No. 2**  
**Receive Room View of Test Specimen Installation**



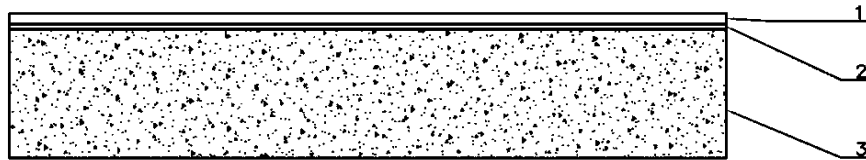
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### SECTION 13

#### DRAWING



- 1-Floor Topping
- 2-Underlayment
- 3-Concrete Slab



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**SECTION 14**

**REVISION LOG**

REVISION #	DATE	PAGES	REVISION
R0	09/20/17	N/A	Original Report Issue