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Test Report

Original Issue Date: 2024-08-05 Intertek Report No. 240726011WHF-024

Applicant: Purelux Canada Floors Inc.

Address: 1200 Kamato Rd, Mississauga ON

Attn: Jerry Guo

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
SPC floors	Imperlux	1800*228*5.5+1.5mm
Sample ID	**Sample Amount**	**Sample Received Date**
S240725011SHF.017	72 pieces	2024-05-21
Sample Description		
1800*228*5.5+1.5mm		

Test Methods And Standards

Test Standard	ASTM E90-23
Specification Standard	ASTM E413-22
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1.This report does not involve sampling. The report only reflects conformity of the tested items of the samples provided by the testing applicant. Representativeness and authenticity of the submitted samples are responsibilities of the testing applicant.

Report Authorized

Name: Ozzy Cheng Name: Daniel Zhang

Title: Reviewer Title: Project Engineer

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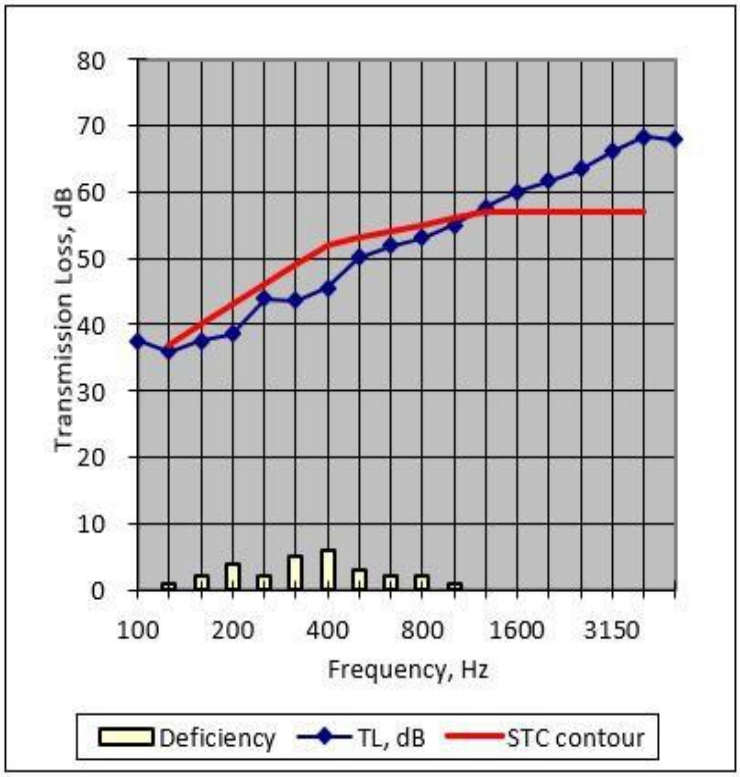
Test Report

Original Issue Date: 2024-08-05 Intertek Report No. 240726011WHF-024

Test Items, Method and Results:

Test Item:	Laboratory Measurements of Airborne Sound Transmission Loss		
Test method:	ASTM E90-23		
Temperature:	30°C	Relative Humidity:	80%
Volume of Source Room:	77m^3	Volume of Receiving Room:	112m^3
Specimen area:	12.5m^2		
Floor Assemblies:	The system consisted of 150mm thick concrete floor and the 7mm SPC floors(including 1.5mm IXPE underlayment) were placed on the concrete floor.		
Mounting of the specimen:	Floating installation with click joints		

Frequency (Hz)	TL (dB)
100	37.6
125	35.9
160	37.6
200	38.6
250	43.8
315	43.7
400	45.6
500	50.1
630	51.9
800	53.1
1000	55.0
1250	57.7
1600	60.0
2000	61.7
2500	63.4
3150	66.1
4000	68.3
5000	67.9



Calculated Sound Transmission Class: STC 72

Note:

1. TL = Transmission loss

2. Classified STC in accordance with ASTM E413-22, Classification for Rating Sound Insulation. The methods of calculating single- number acoustical ratings for laboratory measurement of sound attenuation obtained in one-third octave bands.

3. The STC was for the whole floor assemblies.

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Test Report

Original Issue Date: 2024-08-05 Intertek Report No. 240726011WHF-024

Test Items, Method and Results:

Test Item: Laboratory Measurement of Impact Sound Transmission

Test method: ASTM E492-22

Temperature: 30°C Relative Humidity : 80%

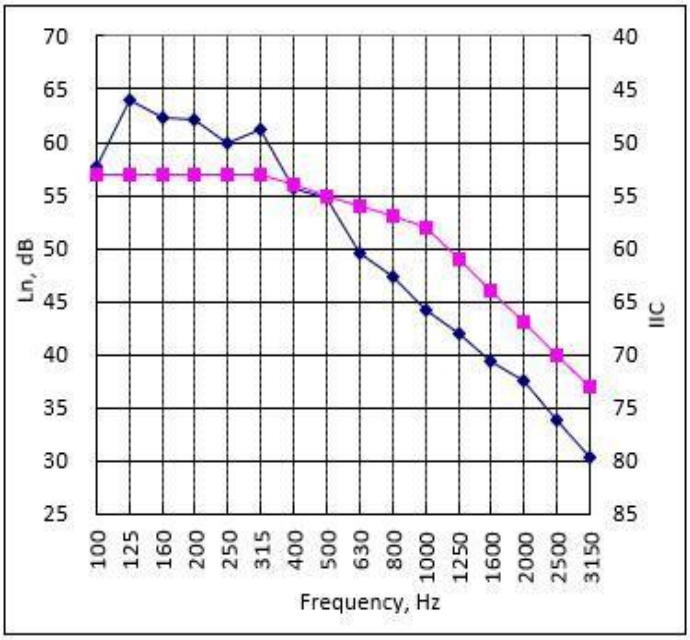
Volume of Source Room: 77m^3 Volume of Receiving Room: 112m^3

Specimen area: 12.5m^2

Floor Assemblies: The system consisted of 150mm thick concrete floor and the 7mm SPC floors(including 1.5mm IXPE underlayment) were placed on the concrete floor.

Mounting of the specimen: Laying on the floor

Frequency (Hz)	Ln (dB)
100	58
125	64
160	62
200	62
250	60
315	61
400	56
500	55
630	50
800	47
1000	44
1250	42
1600	39
2000	38
2500	34
3150	30



Calculated Impact Insulation Class: IIC 73

Note:

1. Ln = Normalized Impact Sound Pressure Level

2. Classified IIC in accordance with ASTM E989-21, Standard Classification for Determination of Impact Insulation Class. This classification was used with one-third octave bands.

3. The IIC was for the whole floor assemblies.

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Test Photo

Ceiling assembly

Test Report

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Appendix A: Test Photos

Test set up

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Appendix B: Sample Received Photo

Revision:

NO.	Date	Changes
240726011WHF-024	2024-08-05	First issue