

NorthStar Flooring

TEST REPORT

SCOPE OF WORK

LVT

REPORT NUMBER

240830002SHF-002

TEST DATE(S)

2024-08-30 - 2024-09-14

ORIGINAL ISSUE DATE

2024-09-14

PAGES

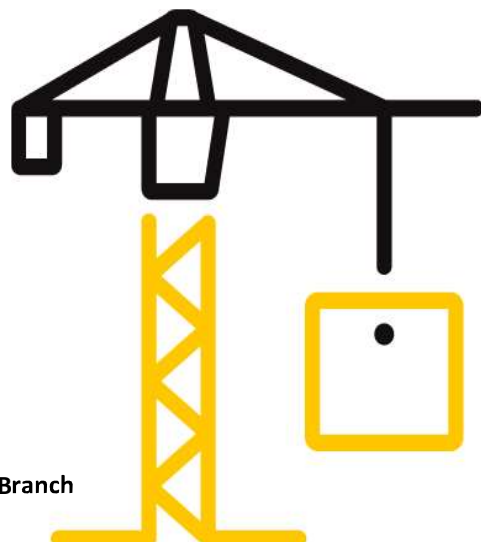
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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10I(February 1, 2024)

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Test Report

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- 8.Intertek B&C will service this report for the entire test record retention period. The test record retention period ends 6 years after this report original issue date. The test record retention period for certification program is 10 years. Test records and other pertinent project documentation will be retained for the entire test record retention period.
- 9.The report was digital signed by Shang Hai, Intertek Group plc, please using Adobe Acrobat Reader to verify the authenticity.



Test Report

Original Issue Date: 2024-09-14

Intertek Report No. 240830002SHF-002

Applicant: NorthStar Flooring

Address: 6305 Allentown Blvd. Harrisburg, PA 17112

Skip Mason

Attn:

Manufacturer: NorthStar Flooring

Address: 6305 Allentown Blvd. Harrisburg, PA 17112

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

Product Information

Product Name	Model	Specification
LVT	/	1220*177.8*2.5mm/0.5+ 1.5mmIXPE
Sample ID	Sample Amount	Sample Received Date
S240830002SHF.014	70pcs	2024-08-28
Sample Description		
1220*177.8*4mm(including wear layer 0.5mm, 1.5mm backing layer)		

Test Methods And Standards

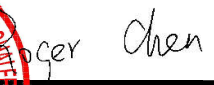
Test Standard	ASTM E90-23
Specification Standard	ASTM E413-22
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

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 Title: Reviewer

Name: Roger Chen Title: Project Engineer

Test Report

Original Issue Date: 2024-09-14

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Test Items, Method and Results:

Test Item: Laboratory Measurements of Airborne Sound Transmission Loss

Test method: ASTM E90-23

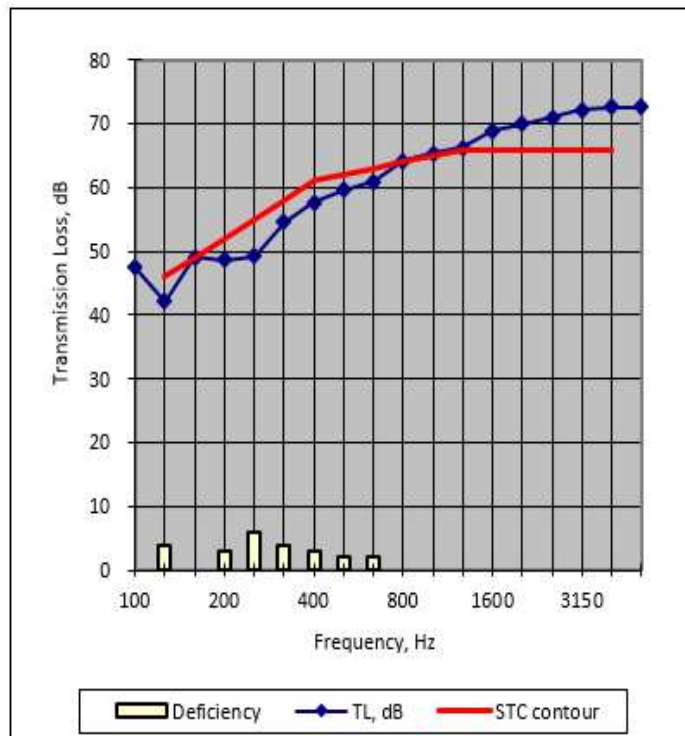
Temperature: 30 °C Relative Humidity: 80 %

Volume of Source Room: 77 m³ Volume of Receiving Room: 104 m³

Specimen area⁴: 27.4 m²

Floor-Ceiling Assemblies: The system consisted of 150mm thick concrete floor with a drop ceiling below forming the vertical separation between two room, one directly above the other. The drop ceiling consisted of 350mm deep light steel bar joists spaced 1200mm on centre. Two layers of 12mm thick gypsum boards were fixed on the bar. 50mm thick glass wool batts were placed in the 350mm space. The 4mm Regular LVT Flooring (including 1.5mm IXPE underlayment) were placed on the concrete floor.

Frequency (Hz)	TL (dB)
100	47.4
125	42.1
160	49.0
200	48.7
250	49.2
315	54.5
400	57.6
500	59.6
630	60.9
800	64.2
1000	65.3
1250	66.3
1600	68.9
2000	69.9
2500	70.9
3150	72.1
4000	72.6
5000	72.5



Calculated Sound Transmission Class: STC 62

Note:

1. TL= Transmission loss
2. Classified STC in accordance with ASTM E413-22, Classification for Rating Sound Insulation.
3. The STC was for the whole floor-ceiling assembly system.
4. The calculation area was equal to the drop ceiling area 27.4 m².

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Appendix A: Test Photos



Test set up



Ceiling assembly



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Appendix B: Sample Received Photo



Revision:

NO.	Date	Changes
240830002SHF-002	2024-09-14	First issue