

CHANGZHOU TOP STAR NEW MATERIAL TECHNOLOGY CO., LTD

TEST REPORT

SCOPE OF WORK

AquaFix SPC — Chateau Series

REPORT NUMBER

201029003SHF-007

TEST DATE(S)

2020-10-29 - 2020-11-30

ISSUE DATE

2020-11-30

PAGES

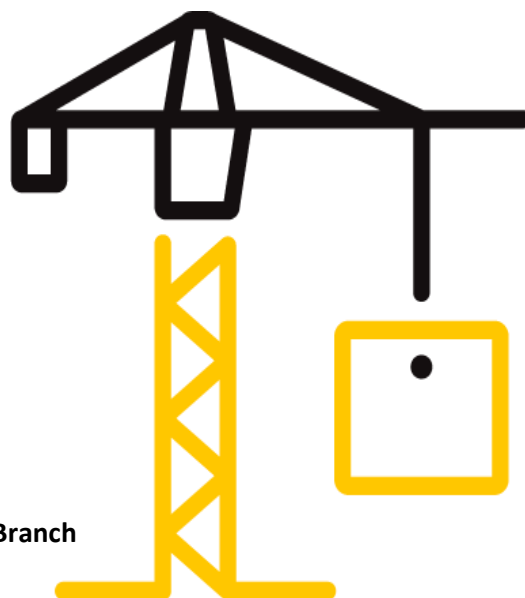
6

DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10k(May 1, 2020)

© 2020 INTERTEK

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Test Report

Statement

- 1.This report is invalid without company's special seal for testing on assigned page.
- 2.This report is invalid without authorized person's signature.
- 3.This report is invalid where any unauthorized modification indicated.
- 4.Don't copy this report in partial (except full copy) without any official approval in written by our company. This report is invalid without re-stamping the special seal for testing in copying report.
- 5.Any holder of this document is advised that this report is for the exclusive use of Intertek's Customer and is provided pursuant to the agreement between Intertek and its Customer. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. This report was made with due care within the limitation of a defined scope of work and on the basis of information, materials and instructions received from the Customer or its nominated third parties. Intertek is under no obligation to refer to or report upon any facts or circumstances which are outside the specific instructions received and accepts no responsibility to any parties whatsoever, following the issue of the report, for any matters arising outside the agreed scope of the works. The tests results are not intended to be a recommendation for any particular course of action. Customer is responsible for acting as it sees fit on the basis of such results.
- 6.Intertek's written consent is required to use Intertek's name or logo on the object, product or service being tested. The observations and test results in this report relate only to the sample under test. This report alone does not indicate that the item, product or service has passed any Intertek certification program.
- 7.The report was digital signed by Shang Hai, Intertek Group plc, please using Adobe Acrobat Reader to verify the authenticity.



Test Report

Issue Date: 2020-11-30 Intertek Report No. 201029003SHF-007
Applicant: CHANGZHOU TOP STAR NEW MATERIAL TECHNOLOGY CO., LTD
Address: No.226 Zhaojia Road, Henglin Town, Economic Development Zone, Changzhou City, Jiangsu Province, China
Attn: James
Manufacturer : CHANGZHOU TOP STAR NEW MATERIAL TECHNOLOGY CO., LTD
Address : No.226 Zhaojia Road, Henglin Town, Economic Development Zone, Changzhou City, Jiangsu Province, China
Test Type : Performance test, samples provided by the applicant.

Product Information

Product Name	AquaFix SPC —Harmony & Chateau Series	Brand	/
Sample Description	Good Condition	Sample Amount	15m ²
		Received Date	2020-11-03
Sample ID	Model	Specification	
S201029003SHF.007	/	5.5mm SPC +1.5mm IXPE	

Test Methods And Standards

Test Standard	ASTM E492-09(2016) ^{ε1}
Specification Standard	ASTM E989-18
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1.This report relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

Report Authorized



Mason Wang Nicole Shi
Name: Mason Wang Name: Nicole Shi
Title: Reviewer Title: Project Engineer

Test Report

Issue Date: 2020-11-30

Intertek Report No. 201029003SHF-007

Test Items, Method and Results:

Test Item: Laboratory Measurement of Impact Sound Transmission

Test method: ASTM E492-09(2016)^{E1}

Temperature: 18 °C Relative Humidity: 90 %

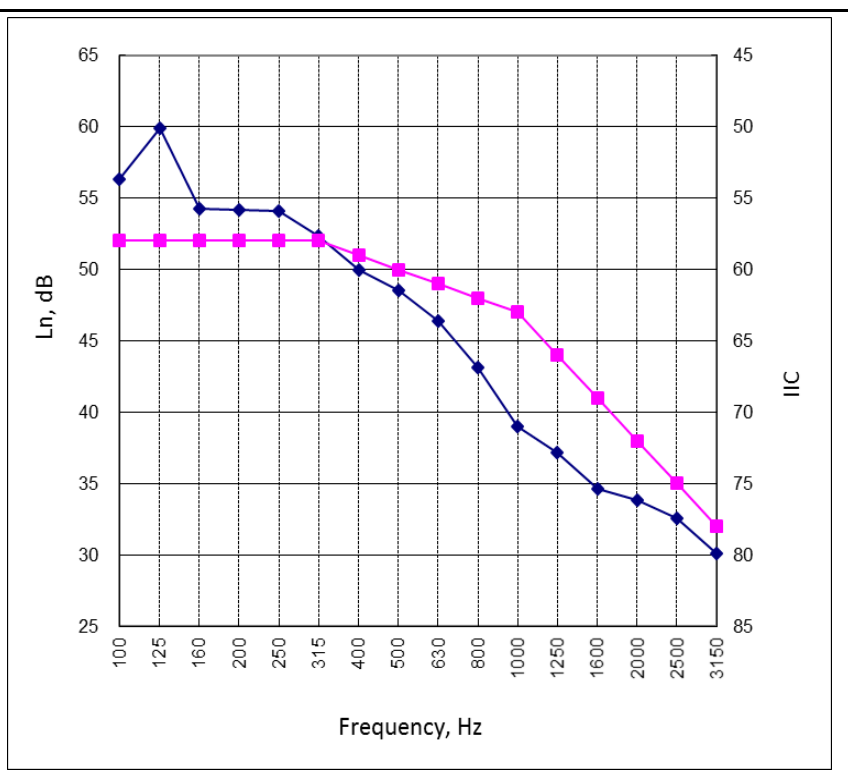
Volume of Source Room: 77 m³ Volume of Receiving Room: 104 m³

Specimen area: 12.7 m²

Floor-Ceiling Assemblies: The system consisted of 150mm thick concrete floor with a drop ceiling below forming the horizontal 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. The 50mm thick glass wool batts were placed in the 350mm space. The 5.5mm SPC flooring with 1.5mm IXPE were placed on the concrete floor.

Mounting of the specimen: Floating installation with click joints

Frequency (Hz)	Ln (dB)
100	56
125	60
160	54
200	54
250	54
315	52
400	50
500	49
630	46
800	43
1000	39
1250	37
1600	35
2000	34
2500	33
3150	30



Calculated Impact Insulation Class: IIC 60

Note:

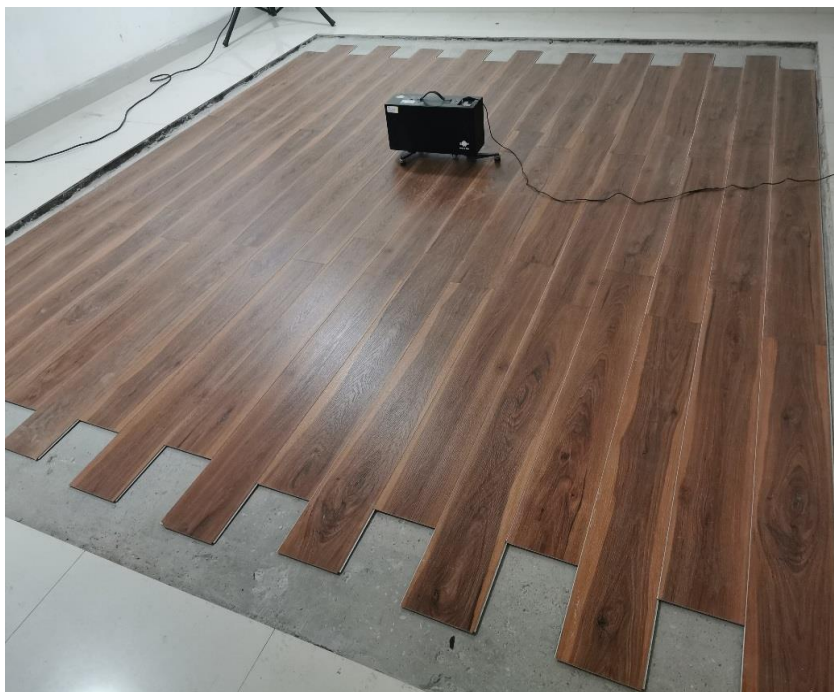
1. Ln = Normalized Impact Sound Pressure Level
2. Classified IIC in accordance with ASTM E989-18, Standard Classification for Determination of Impact Insulation Class. This classification was used with one-third octave bands.
3. The IIC was for the whole floor-ceiling assemblies.

Test Report

Issue Date: 2020-11-30

Intertek Report No. 201029003SHF-007

Test Photos:



Test set up



Ceiling Assembly

Test Report

Issue Date: 2020-11-30

Intertek Report No. 201029003SHF-007

Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes	Author	Reviewer
201029003SHF-007	2020-11-30	First issue	Nicole Shi	Mason Wang