

CAYYENNE CORPORATION, LTD

TEST REPORT

REPORT NUMBER

240907003SHF-003

ISSUE DATE

2024/9/19

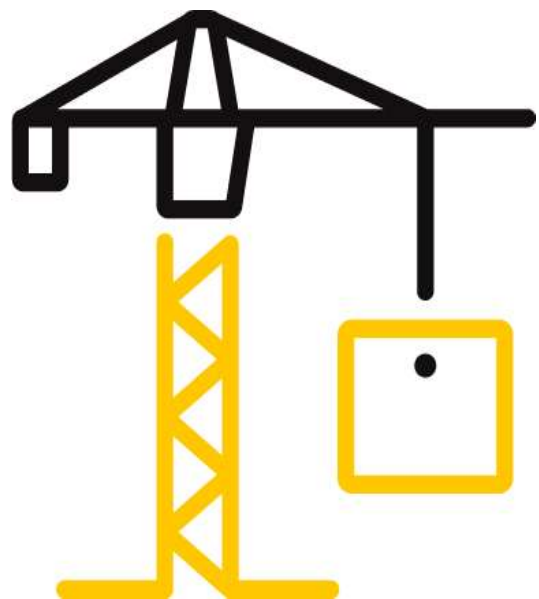
PAGES

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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10k

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Test Report

Issue Date: 2024/9/19

Intertek Report No. 240907003SHF-003

Applicant: CAYYENNE CORPORATION, LTD

Applicant Address: 4F,Bldg 14,Country Garden Century Building,NO.4 Zhihui Rd,Chancheng,
Foshan,GD,China

Attn: Kiran

SUBJECT: Performance testing

Rigid Vinyl Plank/SPC

Dear Sir,

This test report represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

TEST METHODS AND STANDARDS	
Refer to the next following Pages.	

SAMPLE ID	MODEL	SPECIFICATION
S240907003SHF.003	Smartwood	6.5mm SPC + 1.5mm IXPE

SAMPLE RECEIEVED: 2024/9/6

TESTED FROM: 2024/9/7 TO 2024/9/19

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Test Report

Issue Date: 2024/9/19

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Test Items, Method and Results:

Test method: ASTM E492-09(2016)^{e1}

Temperature: 25 °C

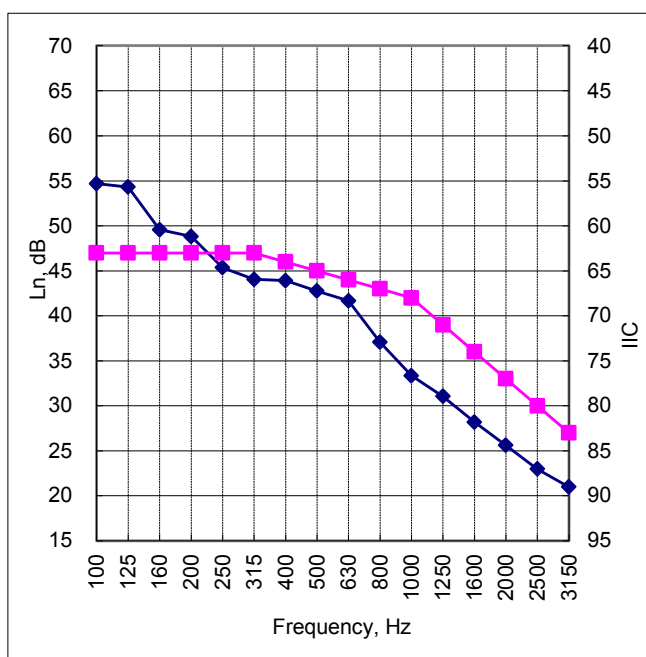
Relative Humidity: 80 %

Specimen area: 14 m²

Volume of the receiving room: 104 m³

Floor-ceiling assembly: 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. 50mm thick glass wool batts were placed in the 350mm space. The 5.9mm Rigid Vinyl Plank/SPC (Backed with underlayment) were placed on the concrete floor.

Frequency (Hz)	Ln (dB)
100	55
125	54
160	50
200	49
250	45
315	44
400	44
500	43
630	42
800	37
1000	33
1250	31
1600	28
2000	26
2500	23
3150	21
IIC=	



Calculated Impact Insulation Class: IIC 69

Note:

1. Ln = Normalized Sound Pressure Level for Covering over Floor System
2. Classified IIC in accordance with ASTM E989-12, Standard Classification for Determination of Impact Insulation Class.
3. The IIC was for the whole floor-ceiling assembly system.

Test Report

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Test Photos:



Test set up

Test Report

Issue Date: 2024/9/19

Intertek Report No. 240907003SHF-003

Test Items, Method and Results:

Test method: ASTM E90-2009(R2016)

Temperature: 25 °C

Relative Humidity: 80 %

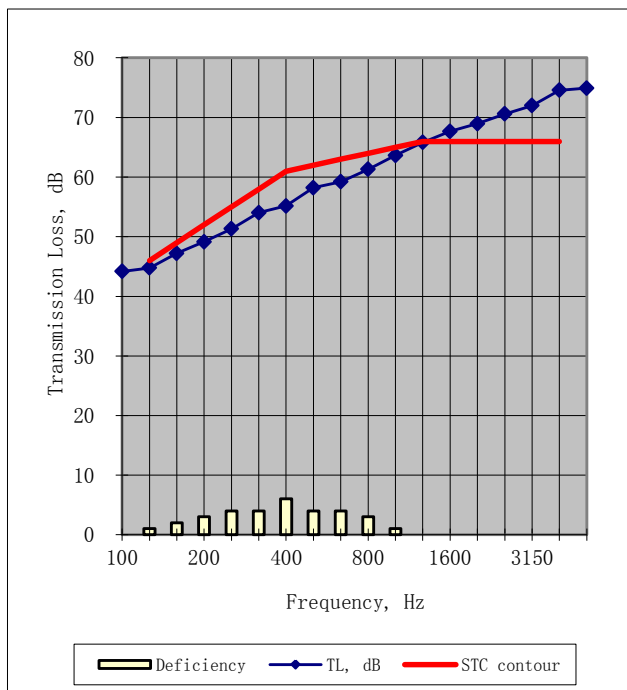
Volume of the source room: 77 m³

Volume of the receiving room: 104 m³

Test area^[4]: 27.4 m²

Floor-ceiling assembly: 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. 50mm thick glass wool batts were placed in the 350mm space. The 5.9mm Rigid Vinyl Plank/SPC (Backed with underlayment) were placed on the concrete floor.

Frequency (Hz)	TL (dB)
100	44.2
125	44.8
160	47.2
200	49.2
250	51.3
315	54.0
400	55.2
500	58.2
630	59.2
800	61.3
1000	63.6
1250	65.8
1600	67.7
2000	69.0
2500	70.6
3150	72.0
4000	74.6
5000	74.9



Calculated Sound Transmission Class: STC 64

Note:

1. TL= Transmission loss
2. Classified STC in accordance with ASTM E413-10, 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.

Test Report

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Test Photos:



Test set up

Test Report

Issue Date: 2024/9/19

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Test Photos:



Ceiling assembly

Test Report

Issue Date: 2024/9/19 Intertek Report No. 240907003SHF-003

APPENDIX: SAMPLE RECEIVED PHOTO

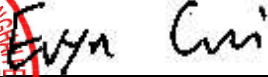


REPORT AUTHORIZED

When signed with physical or electronic signature, the contents of this report have been prepared and approved per Intertek's quality process in accordance with ISO 17025.


Name: Jodie Zhou
Title: Reviewer




Name: Evyn Cui
Title: Project Engineer

Revision:

NO.	DATE	CHANGES	AUTHOR	REVIEWER
240907003SHF-003	2024/9/19	First issue	Evyn Cui	Jodie Zhou