

# CHANGZHOU HUAREN DECORATIVE MATERIAL CO., LTD

## TEST REPORT

**SCOPE OF WORK**

SPC FLOORING

**REPORT NUMBER**

202212013SHF-008

**TEST DATE(S)**

2022-10-29 - 2022-11-30

**ISSUE DATE**

2022-11-30

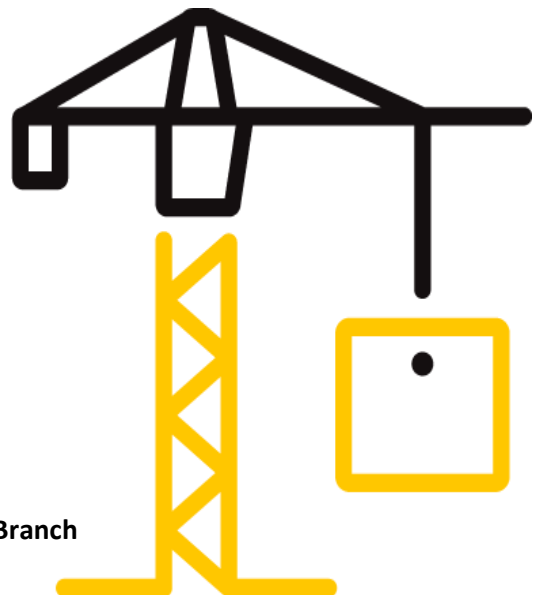
**PAGES**

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**DOCUMENT CONTROL NUMBER**

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



## Test Report

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# Test Report

Issue Date: 2022-11-30 Intertek Report No. 202212013SHF-008  
 Applicant: CHANGZHOU HUAREN DECORATIVE MATERIAL CO.,LTD.  
 Address: NO.110,CHANGHONG ROAD ,WUJIN DISTRICT,CHANGZHOU CITY ,JIANGSU PROVINCE, CHINA.  
 Attn: Ryan  
 Manufacturer : CHANGZHOU HUAREN DECORATIVE MATERIAL CO.,LTD.  
 Address : NO.110,CHANGHONG ROAD ,WUJIN DISTRICT,CHANGZHOU CITY ,JIANGSU PROVINCE, CHINA.  
 Test Type : Performance test, samples provided by the applicant.

### Product Information

<b>Product Name</b>	SPC FLOORING	<b>Brand</b>	/
<b>Sample Description</b>	Good Condition	<b>Sample Amount</b>	15m <sup>2</sup>
		<b>Received Date</b>	2022-11-03
<b>Sample ID</b>	<b>Model</b>	<b>Specification</b>	
S202212013SHF.008	/	5mm SPC +1mm IXPE	


### Test Methods And Standards

<b>Test Standard</b>	ASTM E90-09(R2016)
<b>Specification Standard</b>	ASTM E413-16
<b>Test Conclusion</b>	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

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### Test Items, Method and Results:

Test Item: Laboratory Measurements of Airborne Sound Transmission Loss

Test method: ASTM E90-09(R2016)

Temperature: 18 °C Relative Humidity: 90 %

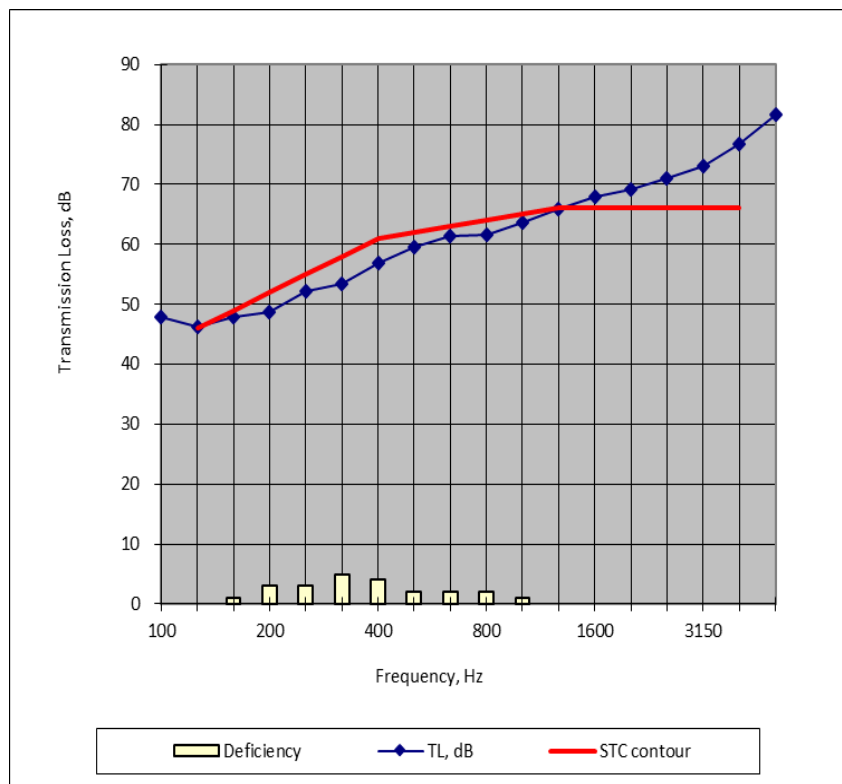
Volume of Source Room: 77 m<sup>3</sup> Volume of Receiving Room: 104 m<sup>3</sup>

Specimen area: 27.4 m<sup>2</sup>

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 5mm SPC flooring with 1mm IXPE were placed on the concrete floor.

Mounting of the specimen: Floating installation with click joints

Frequency (Hz)	TL (dB)
100	47.9
125	46.3
160	47.8
200	48.8
250	52.1
315	53.4
400	56.9
500	59.5
630	61.3
800	61.6
1000	63.6
1250	66.0
1600	67.9
2000	69.1
2500	70.9
3150	73.0
4000	76.8
5000	81.7



**Calculated Sound Transmission Class: STC 62**

**Note:**

1. TL = Transmission loss
2. Classified STC in accordance with ASTM E413-16, 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-ceiling assemblies.
4. The calculation area was equal to the drop ceiling area 27.4 square meter.

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### Test Photos:



Test set up



Ceiling Assembly



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### Appendix A: Sample Received Photo



### Revision:

NO.	Date	Changes	Author	Reviewer
202212013SHF-008	2022-11-30	First issue	Nicole Shi	Mason Wang