

TEST REPORT

No. : XMIN190400714CCM

Date : Apr.29, 2019

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CUSTOMER NAME: JIANGSU ZHENGYOUNG FLOORING DECORATION MATERIAL CO., LTD
ADDRESS: 32 CUIBEI ROAD, HENGLIN, WUJIN CHANGZHOU, CHINA 213103

Sample Name : ESPC
Material : SPC
Spec. : 180*1800*6.5mm
Buyer : IRWAN
Manufacturer : JIANGSU ZHENGYOUNG FLOORING DECORATION MATERIAL CO., LTD

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test Required : Selected test(s) as requested by applicant
Date of Receipt : Apr.09, 2019
Testing Start Date : Apr.09, 2019
Testing End Date : Apr.26, 2019
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

***** To be continued*****

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. Xiamen Branch
Testing Center



Civi Huang Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Center Commercial Construction Material Laboratory

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Acoustic insulation test

Test Conducted:

Refer to ASTM E492-09(2016)^{ε1} Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine

ASTM E989-06(2012) Standard Classification for Determination of Impact Insulation Class (IIC)

ASTM E90-09(2016) Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

ASTM E413-16 Classification for Rating Sound Insulation

Test Condition:

Sample Description : Flooring (see the photo)

Total Thickness:6.5mm, surface density: about 10.1kg/m²

Project description : No decoration of sample surface, sample installation was assembled directly.

The test specimen was covered on a 150mm concrete floor with a drop ceiling, testing area 11.3m², the drop ceiling construction showed in appendix2

Drop ceiling: 288mm cavity filled with 50mm glass wool, 12mm gypsum board.

Test Equipment : RTA840 system

Test Environment : Source room volume 125m³, receiving room volume 100m³, air temperature 22.4°C, air humidity 33.5%

Test Result

Test Item	Test Standard	Result
Determination of Impact Sound Insulation Class	ASTM E492-09(2016) ^{ε1} ASTM E989-06(2012)	IIC = 68
Airborne sound transmission loss test and class	ASTM E90-09(2016) ASTM E413-16	STC = 69

***** To be continued*****



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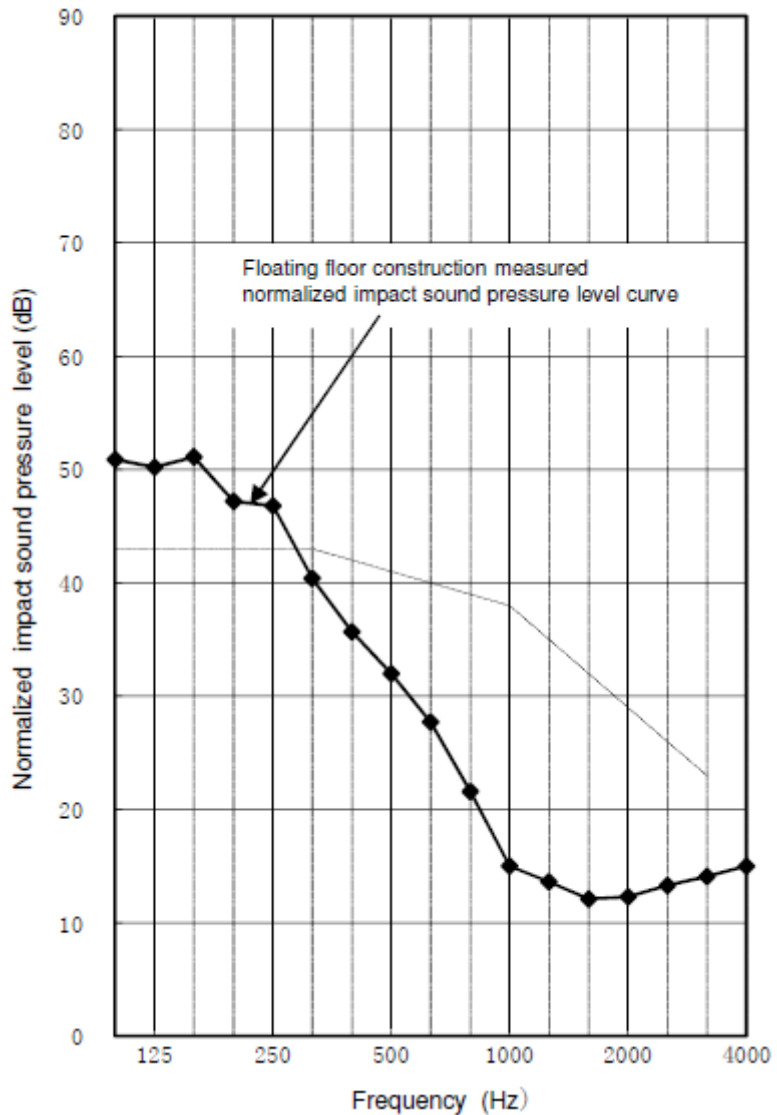
Date : Apr.29, 2019

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Appendix 1:

Frequency spectrum for IIC

<i>f</i> Hz	<i>L_n</i> dB
100	50.9
125	50.2
160	51.1
200	47.2
250	46.8
315	40.4
400	35.7
500	32.0
630	27.7
800	21.6
1000	15.0
1250	13.6
1600	12.1
2000	12.3
2500	13.3
3150	14.1
4000	15.0
IIC	68



Remark: L_n as the weighted normalized impact sound pressure level

***** To be continued*****



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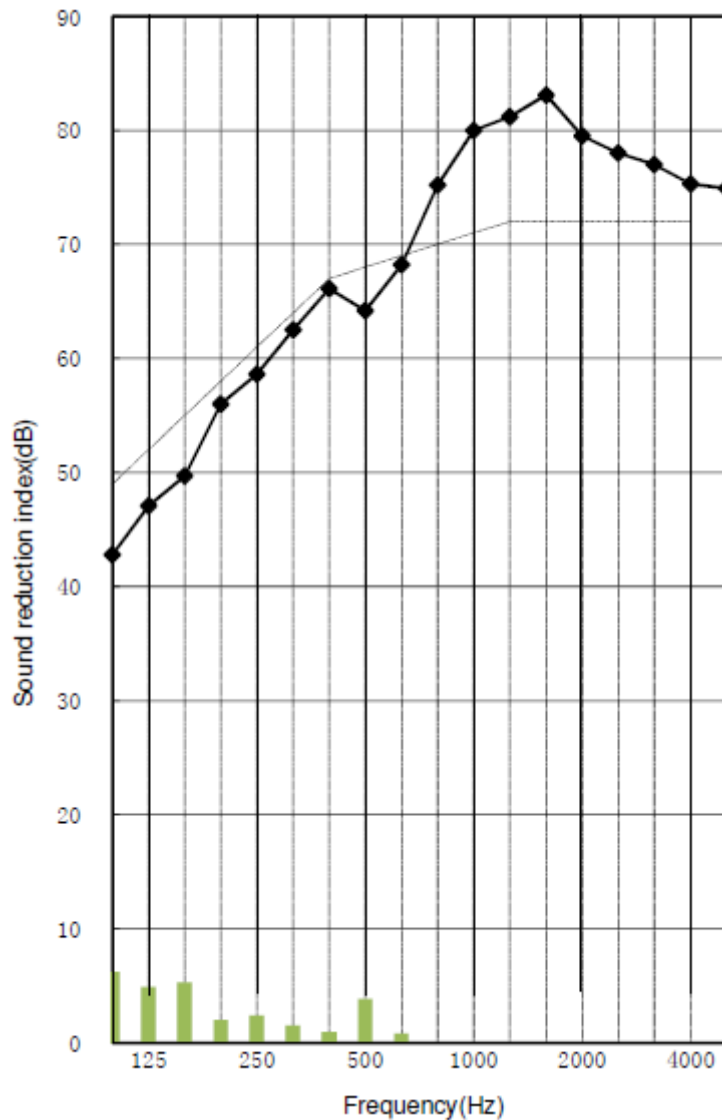
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Frequency spectrum for STC

<i>f</i> Hz	<i>TL</i> dB
100	42.8
125	47.1
160	49.7
200	56.0
250	58.6
315	62.5
400	66.1
500	64.2
630	68.2
800	75.2
1000	80.0
1250	81.2
1600	83.1
2000	79.5
2500	78.0
3150	77.0
4000	75.3
5000	74.9
STC	69



Remark: *TL* is the transmission loss.

***** To be continued*****



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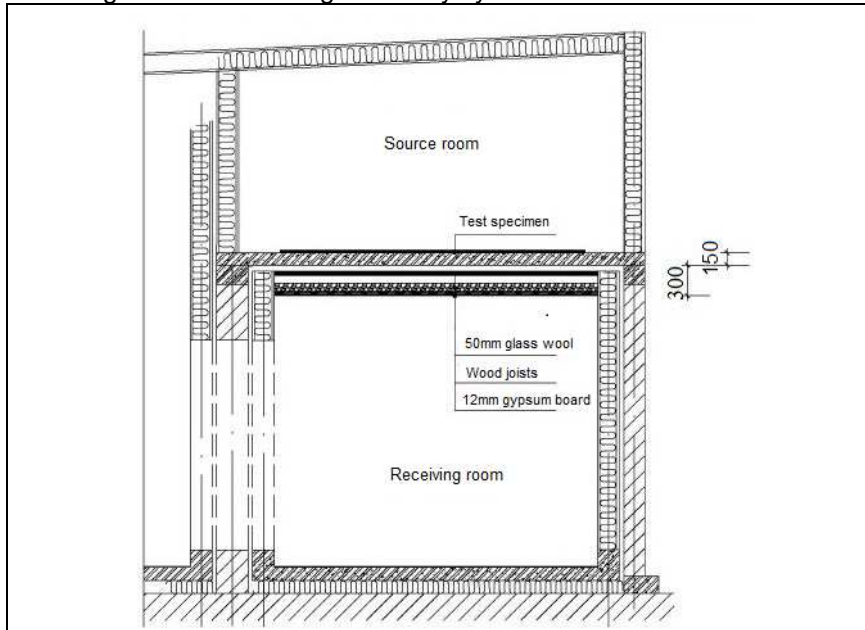
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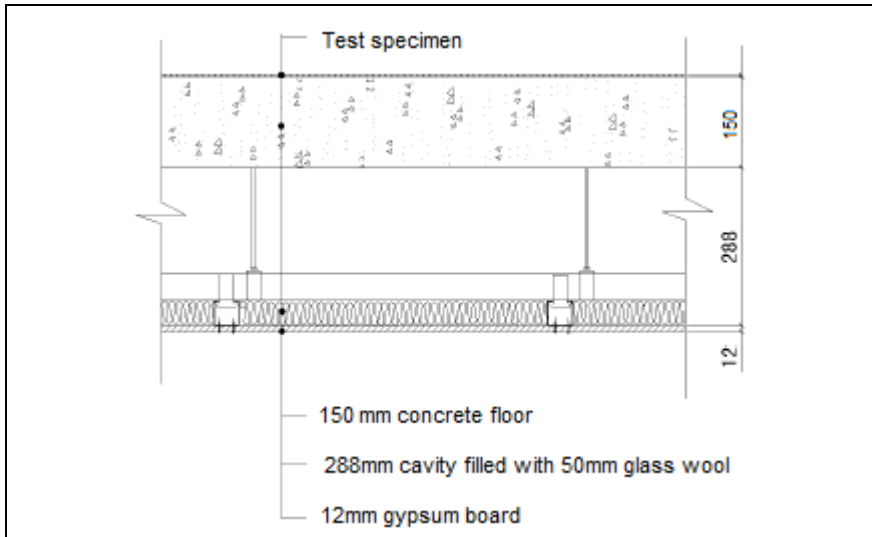
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Appendix 2:

The constructional drawing of the floor/ceiling assembly system



Schematic diagram:



Note: The above test was carried out by Center for Building Environment Test, Tsinghua University.

***** To be continued*****



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Specimen photograph(s):



Original Samples

SGS authenticate the photo(s) on original report only

*****End of report*****



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