WPC Sound Solution Underlayment

Specifications

Name: WPC Sound Solution

Color: Black

Type: Vapor Barrier + Sound Reduction

Construction: black EVA foam with black PE film

Coverage: 200sqft

Thickness: 1.5mm

Weight per Roll: 13lbs

Subfloor Compatibility: All Types

Floor Compatibility: WPC + Rigid Core Vinyl
Installation Method: Floating

Recommended Usage: Residential & Light Commercial

STC (Sound Transmission Class): 67

IIC (Impact Insulation Class): 52

Density: 160kg/m_3

Roll Width: 8in.

Roll Height: 40in.

Country of Manufacture: China

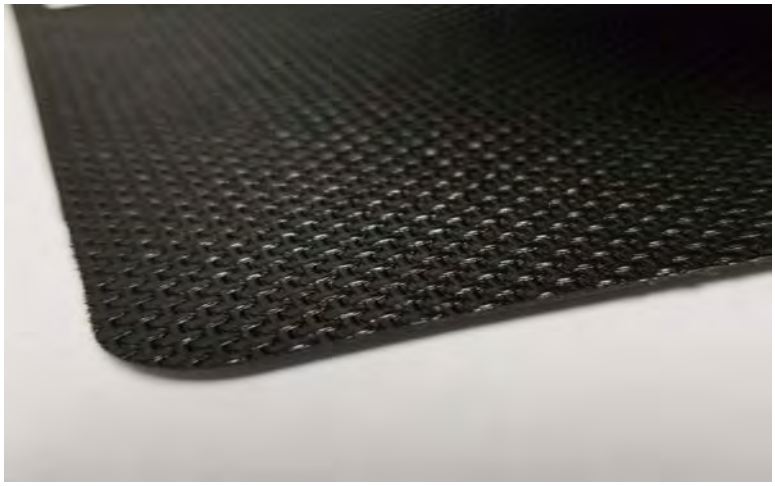
This product, when properly installed and used under normal conditions, is warranted to remain resilient and functional for a period equal to the warranted life of the selected Eternity floor.

Sound Solution WPC underlayment reduces floor noise by providing excellent sound absorption properties. In addition to sound absorption, it also serves as a superb moisture barrier. This high-density foam is suitable for use with floating WPC + Rigid Core LVT floors.

Installation

Follow the Eternity Laminate Installation Guide for detailed instructions.

1. **Prepare the Subfloor**. Level, repair, and make sure it is free of debris
2. **Begin the first row.** Place the roll on the ground with the film side down (facing the subfloor).
   Note: the overlap of film should be positioned toward the open room and the foam will face the wall.
3. **Measure and cut accordingly.** The plank width will determine how many rows of flooring you will be able to install. When you reach 1ft away from the underlayment, stop and roll out a second row of underlayment.
4. **Begin the second row.** Unroll, measure, and cut. Place the foam side over the top of the film overlap from the previous row. Butt the edges together to create a nice seam, do not overlap.
5. **Tape the Seams.** Use industrial tape to adhere the seams together to make a flat & even surface
6. **Finish.** Continue installation in sections by repeating the steps above.



TEST REPORT

No. : XMCCM161201819-2.1
Date : Jan.05, 2017

Sample Name	:	1.5MM HIGH QUALITY EVA ACOUSTIC FOAM
Sample Info.	:	OYT-1.5

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.

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Test Required	:	Selected test(s) as requested by applicant
Date of Receipt	:	Dec.20, 2016
Testing Start Date	:	Dec.20, 2016
Testing End Date	:	Jan.04, 2017
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. XM Branch

Civi Huang Authorized Signatory

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TEST REPORT

Test Conducted:

Refer to ASTM E492-09(2016)$^{\varepsilon 1}$ 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)

Test Condition:

Sample Description	:	1.5MM HIGH QUALITY EVA ACOUSTIC FOAM Total thickness:1.5mm, surface density: about 0.22kg/m^2
Project description	:	No decoration of sample surface, sample installation was assembled directly. The test specimen was covered on a 140mm concrete floor with a drop ceiling, testing area 11.3m^2, the drop ceiling construction showed in appendix2 Drop ceiling: 238mm cavity,50mm glass wool,12mm gypsum board
Test method	:	Two adjacent rooms, one the source room directly above the other the receiving room. A standard tapping machine is placed in operation on the flooring system in source room. The average spectrum of the sound pressure levels produced by the tapping machine is measured in the receiving room.
Test Equipment	:	RTA840 system
Test Environment	:	Source room volume 125m^3, receiving room volume 100m^3, air temperature 18.4℃, air humidity 24.8%

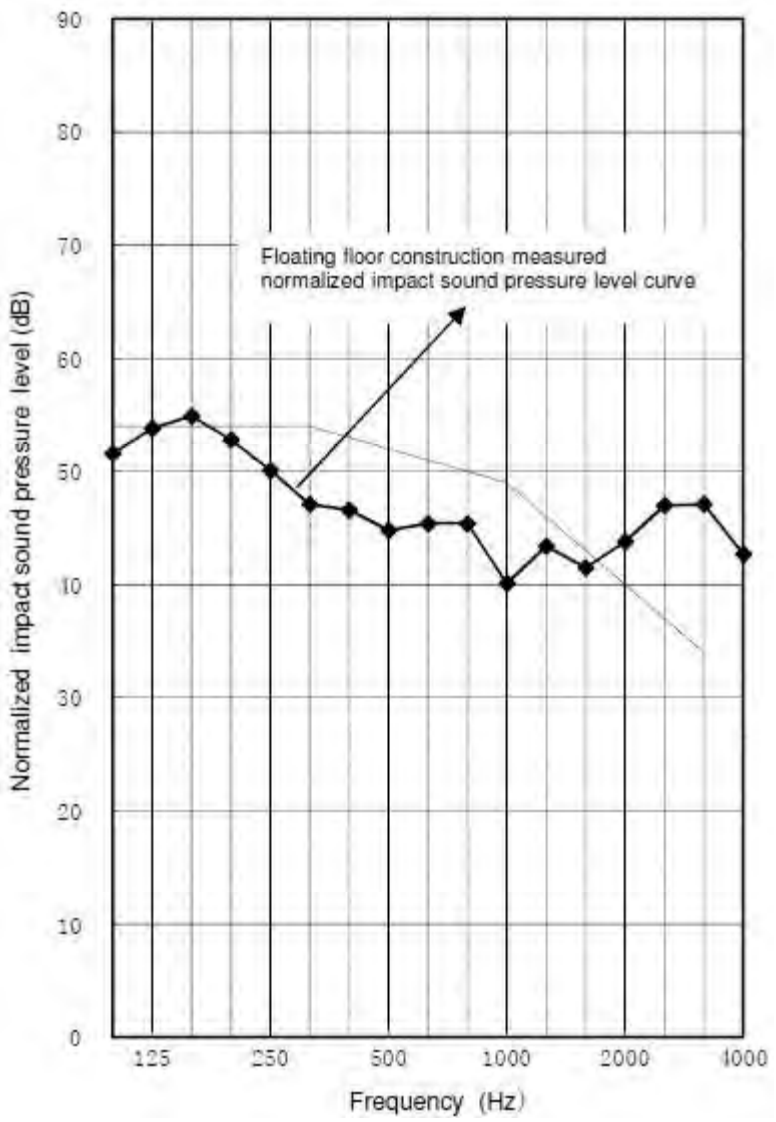
Test Result

Test Item	Test Standard	Result
Determination of Impact Sound Insulation Class	ASTM E492-09(2016)$^{\varepsilon 1}$ ASTM E989-06(2012)	**IIC = 52**

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

Appendix 1:

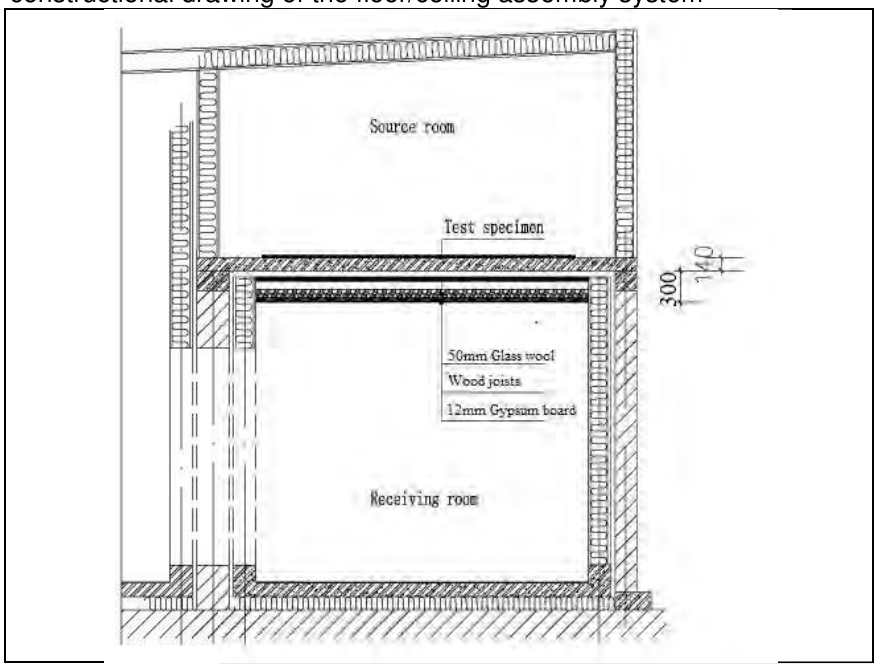
f Hz	***Ln*** dB
100	51.6
125	53.8
160	54.9
200	52.8
250	50.1
315	47.1
400	46.6
500	44.8
630	45.4
800	45.4
1000	40.1
1250	43.4
1600	41.5
2000	43.8
2500	47.0
3150	47.1
4000	42.7
IIC	**52**



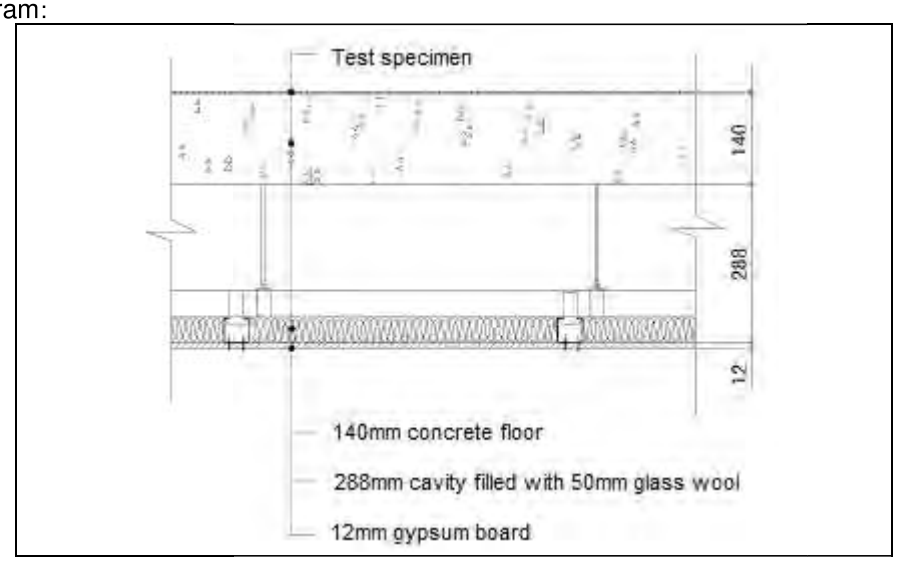
Remark: L_n as the weighted normalized impact sound pressure level

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

Appendix 2: The constructional drawing of the floor/ceiling assembly system



Schematic diagram:



Note: The above test was carried out by an external laboratory assessed as competent.

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

TEST REPORT

Photo Appendix:

SGS authenticate the photo on original report only

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

TEST REPORT

No. : XMCCM161201819-2.2
Date : Jan.04, 2017

Sample Name	:	1.5MM HIGH QUALITY EVA ACOUSTIC FOAM
Sample Info.	:	OYT-1.5

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.

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Test Required	:	Selected test(s) as requested by applicant
Date of Receipt	:	Dec.20, 2016
Testing Start Date	:	Dec.20, 2016
Testing End Date	:	Jan. 04, 2017
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. XM Branch

Civi Huang Authorized Signatory

TEST REPORT

Test Conducted:

Refer to ASTM E90-09 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	:	1.5MM HIGH QUALITY EVA ACOUSTIC FOAM Total thickness:1.5mm, surface density: about 0.22kg/m^2
Project description	:	No decoration of sample surface, sample installation was assembled directly. The test specimen was covered on a 140mm concrete floor with a drop ceiling, testing area 11.3m^2, the drop ceiling construction showed in appendix2 Drop ceiling: 238mm cavity,50mm glass wool,12mm gypsum board
Test method	:	Two adjacent rooms, one the source room directly above the other the receiving room. Taken the only significant sound transmission path between rooms is by way of the test partition. An approximately diffuse sound field is produced in the source room. Sound incident on the test partition causes it to vibrate and create a sound field in the receiving room.
Test Equipment	:	RTA840 system
Test Environment	:	Source room volume 125m^3, receiving room volume 100m^3, air temperature 18.4℃, air humidity 24.8%

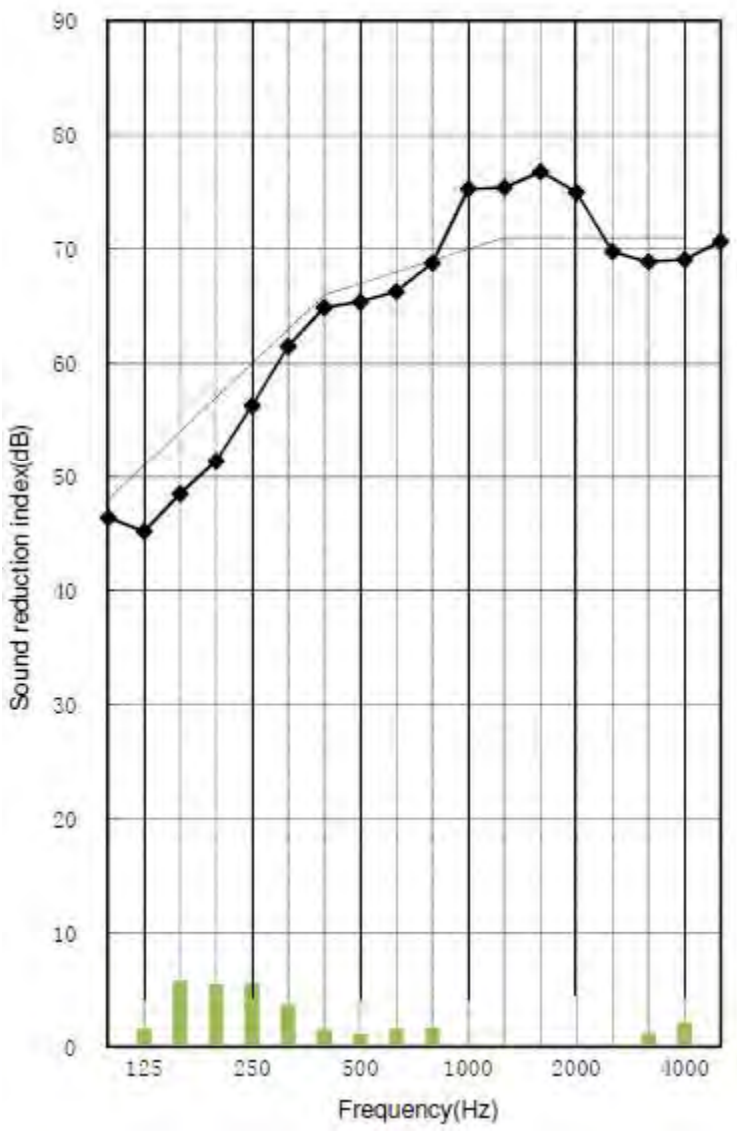
Test Result

Test Item	Test Standard	Result
Airborne sound transmission loss test and class	ASTM E90-09 ASTM E413-16	**STC = 67**

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

Appendix 1:

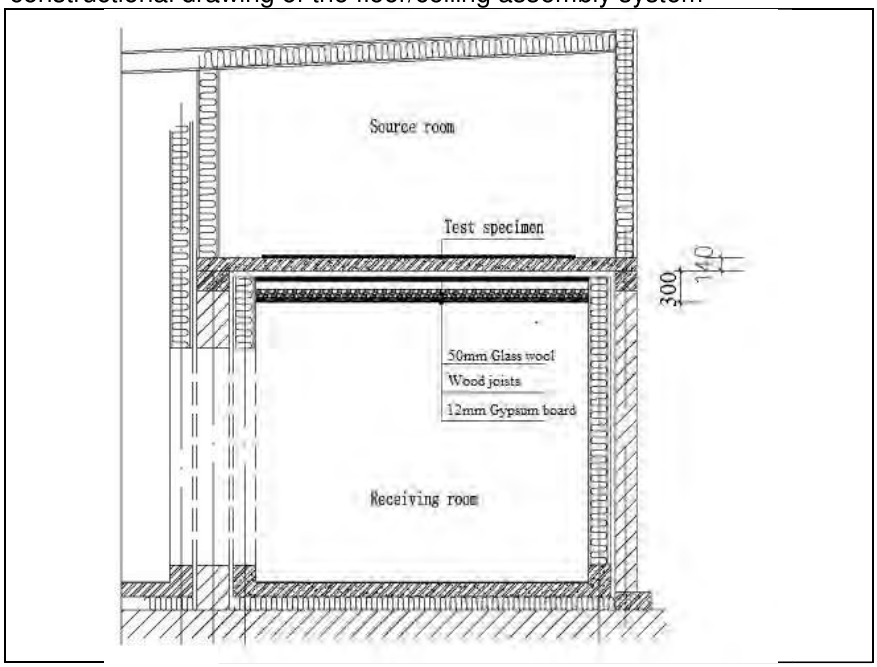
f Hz	*TL* dB
100	46.4
125	45.2
160	48.5
200	51.4
250	56.3
315	61.5
400	64.9
500	65.4
630	66.3
800	68.8
1000	75.3
1250	75.4
1600	76.8
2000	75.0
2500	69.8
3150	68.9
4000	69.1
5000	70.7
STC	**67**



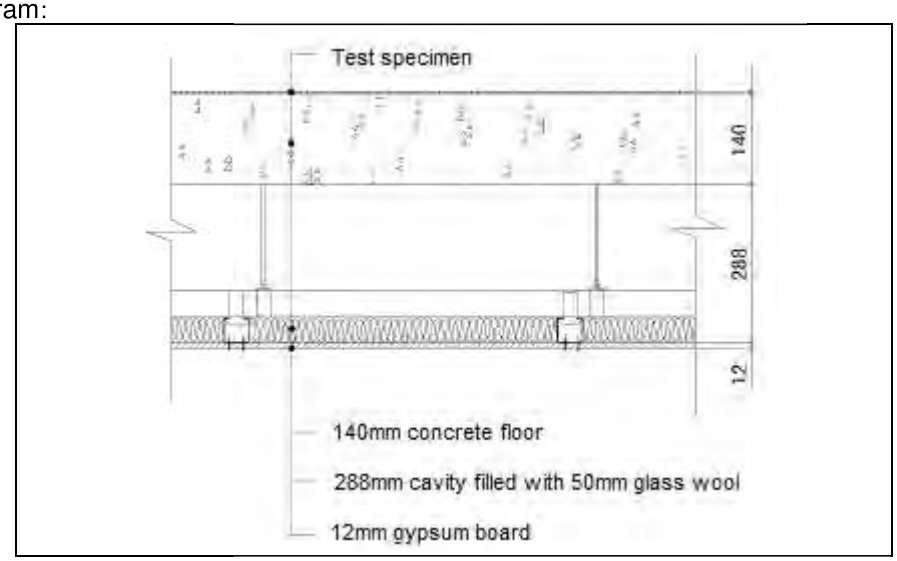
Remark: *TL* is the transmission loss

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

Appendix 2: The constructional drawing of the floor/ceiling assembly system



Schematic diagram:



Note: The above test was carried out by an external laboratory assessed as competent.

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

TEST REPORT

Photo Appendix:

SGS authenticate the photo on original report only
*******End of report********