

## TEST REPORT

No. : SHIN171203675CCM

Date : Dec. 15, 2017

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CUSTOMER NAME: SUZHOU DEZHIBANG BUILDING MATERIAL CO., LTD.  
ADDRESS: NO.21, PANYANG INDUSTRIAL PARK XIANGCHENG DISTRICT  
SUZHOU CITY CHINA

Sample Name : ACOUSTIC LAGGING

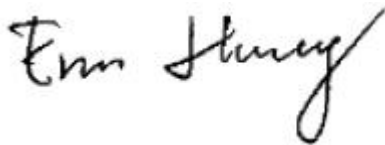
Product specification : 1.35\*3m

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 : Airborne sound reduction index  
Test Method : Please see the next page(s)  
Date of Receipt : Dec. 01, 2017  
Testing Start Date : Dec. 01, 2017  
Testing End Date : Dec. 15, 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)

Signed for  
SGS-CSTC Standards Technical  
Services (Shanghai) Co., Ltd.



Erin Huang  
Authorized signatory



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
Testing Center Commercial Construction Material Laboratory

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Test item: Airborne sound reduction index

### I. Test Methods

ISO 10140-2:2010 Acoustics - Laboratory measurement of sound insulation of building elements - Part 2: Measurement of airborne sound insulation

ISO 717-1:2013 Acoustics - Rating of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation

### II. Sample Details

Air temperature in the test room	17.4°C	Air humidity in the test room	30.1%
Source room volume	125m <sup>3</sup>	Receiving room volume	100m <sup>3</sup>
Description of test arrangement	The specimen is composed of 2.5mm thick rubber sheet and sponge layer, and the sponge layer is wavy, the maximum thickness of the specimen is about 25mm, the minimum thickness is about 12mm, and the surface density is about 5.0kg/m <sup>2</sup> . There is no decoration on the surface of sample; the putty powder is used to seal the gap of the sample and the joint of the test hole.		

### III. Test result

Rating according to ISO 717-1:2013:

With the spectrum correction C (spectrum 1), the weighted sound insulation value is  $R_w+C=22$ dB.

With spectrum correction  $C_{tr}$  (spectrum 2), the weighted sound insulation value is  $R_w+C_{tr}=25$ dB.



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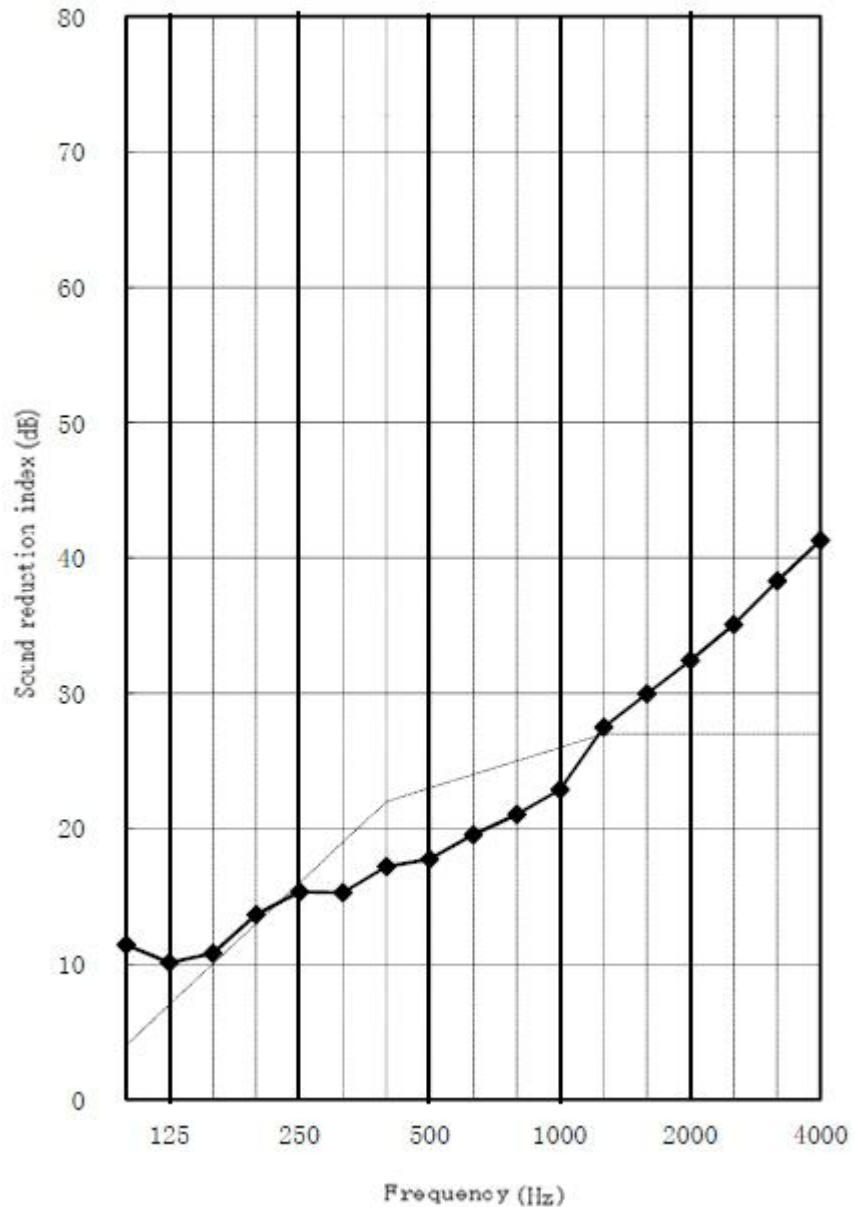
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Frequency f,Hz	Sound reduction index, dB
100	11.4
125	10.1
160	10.8
200	13.7
250	15.3
315	15.3
400	17.2
500	17.7
630	19.5
800	21.1
1000	22.9
1250	27.5
1600	30.0
2000	32.4
2500	35.1
3150	38.3
4000	41.3
R <sub>w</sub> (C;C <sub>tr</sub> )	25(-1;-4)



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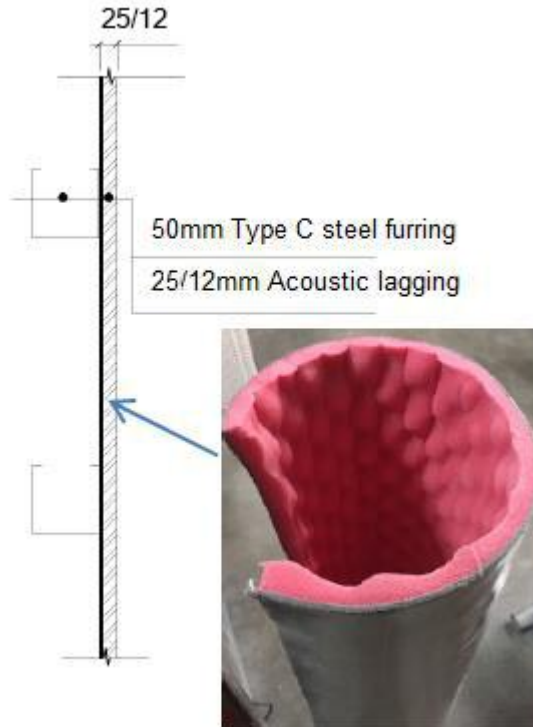
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Test schematic diagram:



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

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

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