

TEST REPORT

No. : GZIN2307002301PL01_EN

Date : 2023-08-04

Page: 1 of 6



CUSTOMER NAME: FOSHAN LITONG FANPENG CO., LTD.
ADDRESS: NO 66 ZHONGBIAN AVENUE SOUTH DALI TOWN NNAHAI
DISTRICT FASHAN CITY, CHINA

Sample Name : PVC sound barrier

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.

Date of Receipt : 2023-07-20
Testing Period : 2023-07-20 ~ 2023-08-04
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 Co., Ltd. Guangzhou
Branch.

Quincey Lee
Authorized signatory



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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch / Testing Materials Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155661 www.sgsgroup.com.cn
t (86-20) 82155661 sgs.china@sgs.com

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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Sound Absorption Coefficient	ASTM C423-22	See result	/
2	Sound Transmission Class	ASTM E90-09(2016)	See result	/

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.

Original Sample Photo(s):



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1. Test Item: Sound Absorption Coefficient

I. Test Method

ASTM C423-23 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method

II. Sample Details

Dimensions	3580mm × 2150mm × 0.50mm
Surface Density	About 0.61kg/m ²

III. Test Condition

Ambient Temperature	27.0°C	Relative Humidity	88.4%RH
Volume Reverberation Room	260m ³	Test Area	11.28m ² (3.58m×3.15m)
Description of Test Arrangement	The installation of specimen refers to type A mounting. After splicing, the test specimen is directly laid on the ground in the reverberation room, with the front facing the noise.		

IV. Test Result

Average Absorption Coefficient $\bar{\alpha}$ (100Hz~5000Hz): 0.05

Average Absorption Coefficient SAA (200Hz~2500Hz):0.04

Noise Reduction Coefficient: NRC=0.05

Note: NRC is the arithmetic average of absorption coefficient contained four octave frequency bands (250, 500, 1000, 2000 Hz).



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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155661 www.sgsgroup.com.cn
t (86-20) 82155661 sgs.china@sgs.com

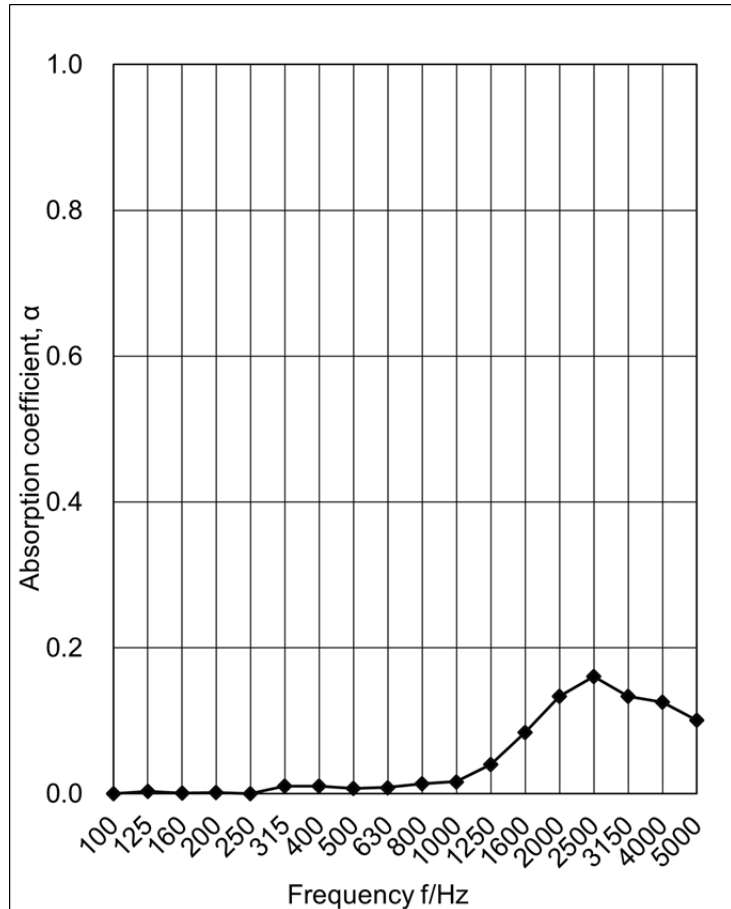
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Frequency Hz	Absorption Coefficient, α
100	0.00
125	0.00
160	0.00
200	0.00
250	0.00
315	0.01
400	0.01
500	0.01
630	0.01
800	0.01
1000	0.02
1250	0.04
1600	0.08
2000	0.13
2500	0.16
3150	0.13
4000	0.13
5000	0.10
$\bar{\alpha}$	0.05
SAA	0.04
NRC	0.05



Note: This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.



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SGS-TESTING
Guangzhou Branch
Guangzhou Branch
Guangzhou Branch

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155661 www.sgs.com.cn
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2. Test Item: Sound Transmission Class

I. Test Method

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

II. Sample Details

Dimensions	3580mm × 2150mm × 0.50mm
Surface Density	About 0.61kg/m ²

III. Test Condition

Ambient Temperature	27.4℃	Relative Humidity	85.9%RH
Source Room Volume	96m ³	Receiving Room Volume	85m ³
Description of Test Arrangement	Test Area: 2.00m² (1.00m×2.00m) There is no decoration on the surface of the sample. After cutting, install it to the test hole with the front facing the sound source room. The joint between the sample and the test hole is sealed with cement.		



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SGS-CSTC (Guangzhou) Technical Services Co., Ltd.
Guangzhou Branch / 广州分公司 / 材料实验室

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155661 www.sgsgroup.com.cn
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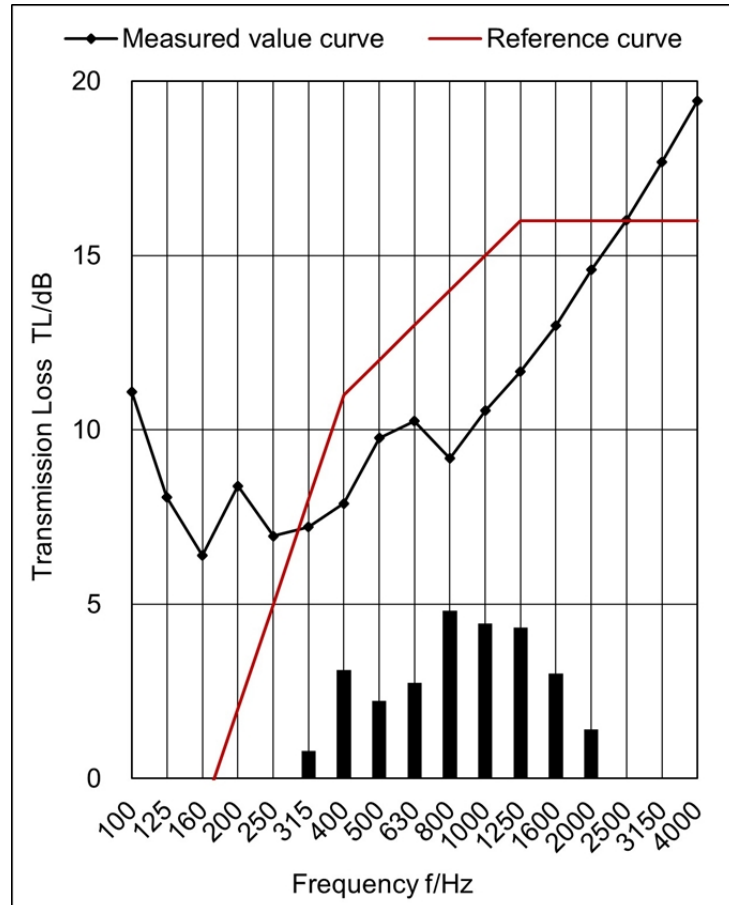
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IV. Test Result

Frequency f, Hz	Transmission Loss, dB
100	11.1
125	8.1
160	6.4
200	8.4
250	7.0
315	7.2
400	7.9
500	9.8
630	10.3
800	9.2
1000	10.6
1250	11.7
1600	13.0
2000	14.6
2500	16.0
3150	17.7
4000	19.4



V. Sound Transmission Class

Rating according to ASTM E413-22:

Sound Transmission Class: $STC = 12$

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



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