

TEST REPORT

No. : CZIN2310000094CM01_EN

Date : 2023-10-30

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CUSTOMER NAME: SUZHOU ACOUSOUND NEW MATERIAL TECHNOLOGY INC.
ADDRESS: NO.10 AIMIN ROAD, XIANGCHENG, SUZHOU, JIANGSU, CHINA.
Sample Name : RAW FIBER FLAME RETARDANT POLYESTER ACOUSTIC PANEL
Product Specification : 800*1200mm

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.

SGS Ref. No. : SHIN2310001643CM01
Date of Receipt : 2023-10-18
Testing Period : 2023-10-18 ~ 2023-10-30
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 (Changzhou) Co., Ltd..



Tiffany Liu
Authorized signatory



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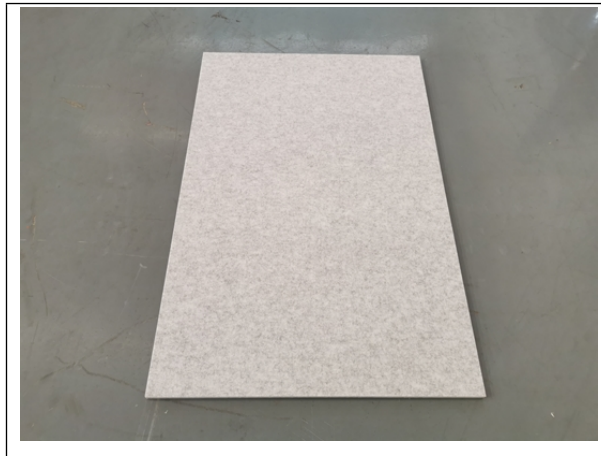
Page: 2 of 5

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Sound Absorption Coefficient	ASTM C423-22	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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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	1200mm × 800mm × 18mm
Surface Density	About 2.84kg/m ²

III. Test Condition

Ambient Temperature	22.3°C	Relative Humidity	64.0%RH
Volume Reverberation Room	260m ³	Test Area	11.52m ² (3.60m×3.20m)
Description of Test Arrangement	The installation of samples refers to type E mounting. The samples are installed in the reverberation room, use baffle to enclosure. 400mm back cavity.		

IV. Test Result

Average Absorption Coefficient $\bar{\alpha}$ (100Hz~5000Hz): 0.87

Average Absorption Coefficient SAA (200Hz~2500Hz): 0.88

Noise Reduction Coefficient: NRC=0.90

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



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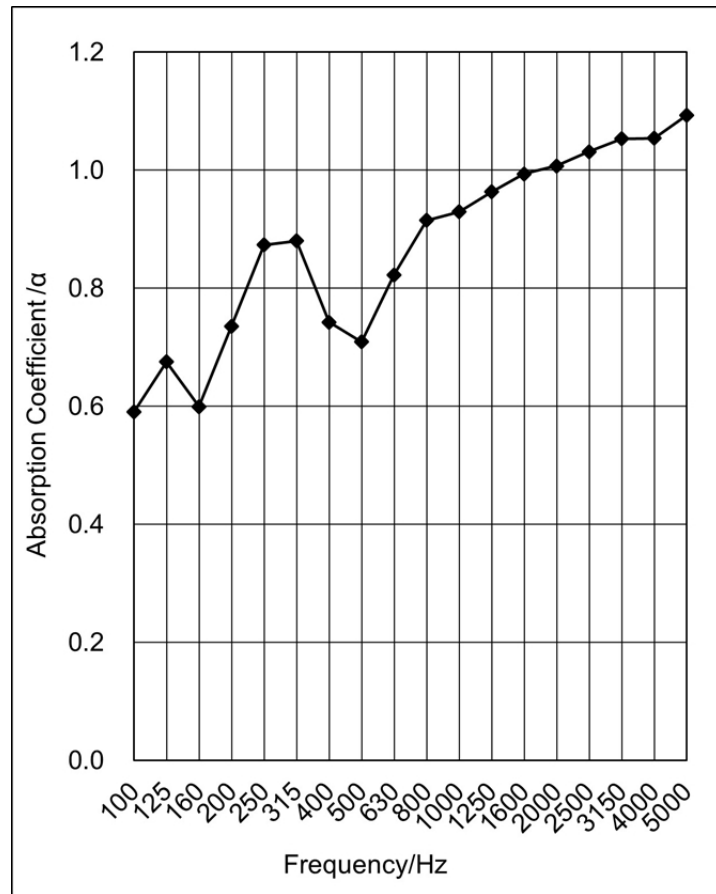
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Frequency Hz	Absorption Coefficient, α
100	0.59
125	0.68
160	0.60
200	0.74
250	0.87
315	0.88
400	0.74
500	0.71
630	0.82
800	0.92
1000	0.93
1250	0.96
1600	0.99
2000	1.01
2500	1.03
3150	1.05
4000	1.05
5000	1.09
$\bar{\alpha}$	0.87
SAA	0.88
NRC	0.90



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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V. Test Photo(s):



In Test

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



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