

TEST REPORT

No. : CZIN2303000023CM

Date: Mar 27, 2023

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Sample Name : ACOUSTIC WALL PANEL

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 : Sound Absorption Coefficient

SGS Ref. No. : SHIN2303000487CM

Ref. Standard : EN 15102:2019 Clause 4.7 & EN ISO 354:2003

Date of Receipt : Mar 07, 2023

Testing Start Date : Mar 07, 2023

Testing End Date : Mar 27, 2023

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)

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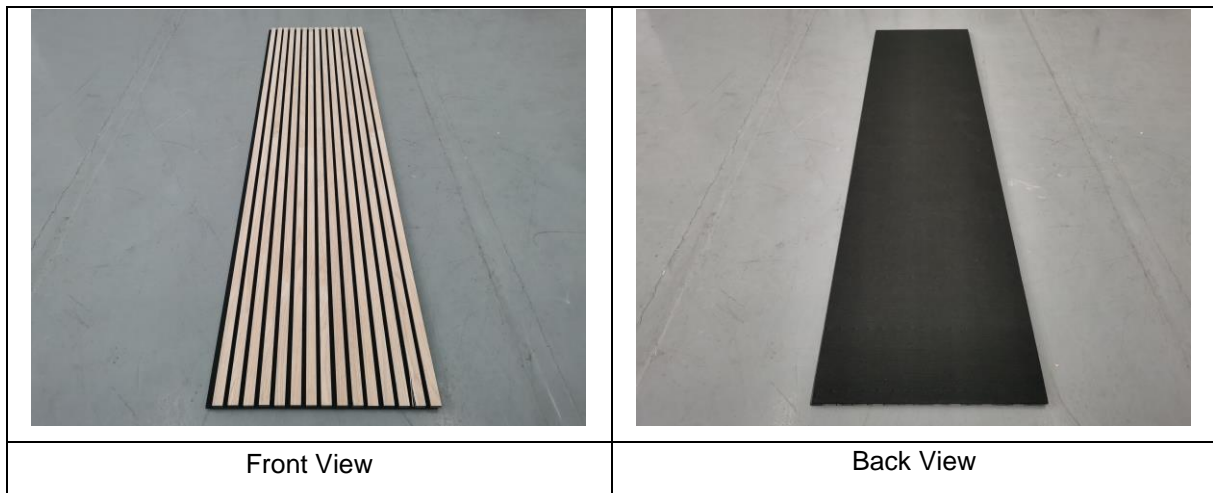
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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Sound Absorption Coefficient	EN 15102:2019 Clause 4.7 & EN ISO 354:2003	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

EN 15102:2019 Decorative wallcoverings - Roll form, Clause 4.7 - Sound absorption

EN ISO 354:2003 Acoustics – Measurement of sound absorption in a reverberation room

II. Sample Details

Dimensions	2400mm×600mm×21mm
Surface Density	About 7.53kg/m ²

III. Test Condition

Ambient Temperature	15.0°C	Relative Humidity	86.8%RH
Volume Reverberation Room	260m ³	Test Area	10.8m ² (3.6m×3.0m)
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. 100mm back cavity.		

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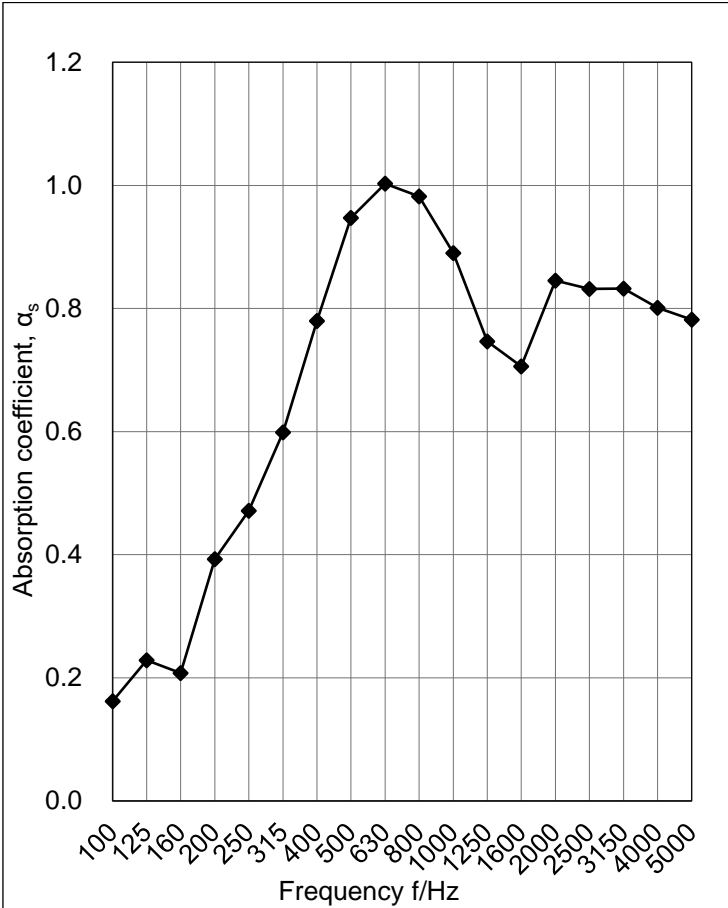
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IV. Test Result

Frequency, Hz	Absorption Coefficient, α_s
100	0.16
125	0.23
160	0.21
200	0.39
250	0.47
315	0.60
400	0.78
500	0.95
630	1.00
800	0.98
1000	0.89
1250	0.75
1600	0.71
2000	0.85
2500	0.83
3150	0.83
4000	0.80
5000	0.78
$\bar{\alpha}_s$	0.68
NRC	0.80



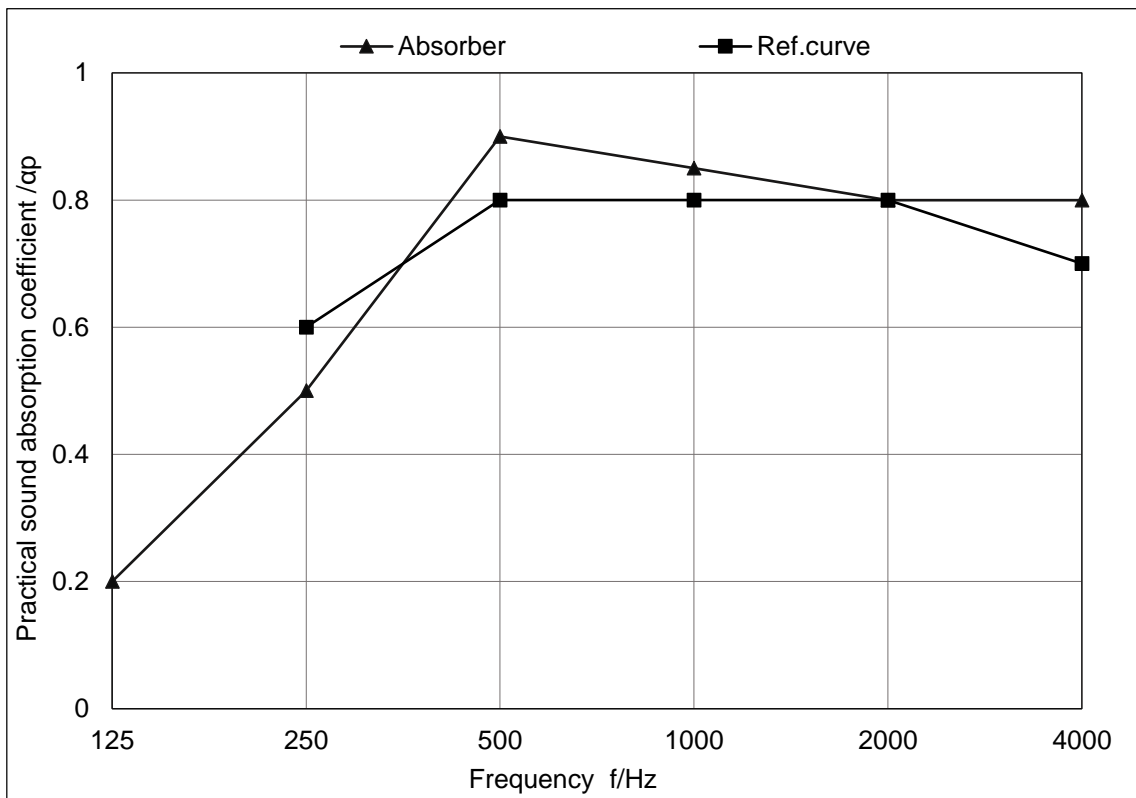
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Frequency/Hz	Reference curve	Practical sound absorption coefficient, α_p	Weighted sound absorption coefficient, α_w	Sound absorption classes
125	-	0.20	0.80	Class B
250	0.60	0.50		
500	0.80	0.90		
1000	0.80	0.85		
2000	0.80	0.80		
4000	0.70	0.80		



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V. Weighted Sound Absorption Coefficient

Calculated according to EN ISO 11654:1997:

Average Absorption Coefficient $\bar{\alpha}_s$ (100Hz~5000Hz): 0.68

Noise Reduction Coefficient: NRC=0.80

Weighted sound absorption coefficient: $\alpha_w=0.80$

Sound absorption classes: Class B

Note:

1. According to EN ISO 11654:1997, Sound absorption classes is five: Class A $\alpha_w=0.90;0.95;1.00$
Class B $\alpha_w=0.80;0.85$ Class C $\alpha_w=0.60;0.65;0.70;0.75$ Class D $\alpha_w=0.30;0.35;0.40;0.45;0.50;0.55$
Class E $\alpha_w=0.15;0.20;0.25$ Not classified $\alpha_w=0.00;0.05;0.10$
2. NRC is the arithmetic average of absorption coefficient contained four octave frequency bands (250, 500, 1000, 2000 Hz).
3. 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.

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