

TEST REPORT

No. : CZIN2408000161CM01_EN

Date : 2024-11-05

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CUSTOMER NAME: INTCO RECYCLING RESOURCES CO., LTD
ADDRESS: 18QINGTIAN RD, ZIBO, SHANDONG, P.R. CHINA

Sample Name : ACOUSTIC WALL PANEL
Product Specification : 520X520X21MM
Manufacturer : INTCO RECYCLING RESOURCES CO., LTD

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. : SHIN2408002058CM01
Date of Receipt : 2024-08-27
Testing Period : 2024-08-27 ~ 2024-11-05
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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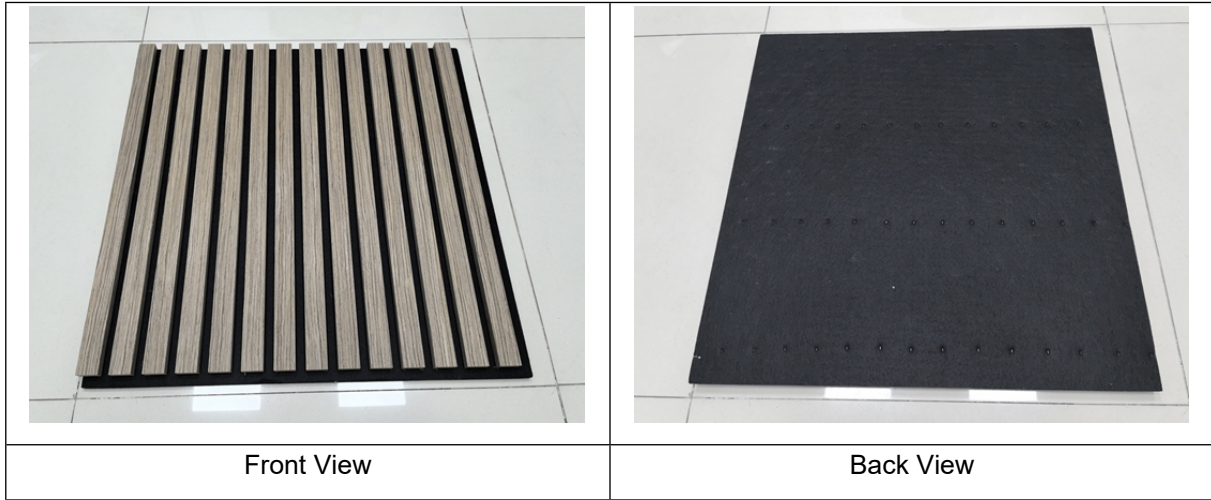
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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Sound Absorption Coefficient	EN ISO 354:2003	See Result	N/A

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

Original Sample Photo(s):



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Test Item: Sound Absorption Coefficient

I. Test Method

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

II. Sample Details

Dimensions	560mm × 560mm × 21mm
Surface Density	About 8.20 kg/m ²

III. Test Condition

Ambient Temperature	29.6°C	Ambient Humidity	78.8%RH
Volume Reverberation Room	260m ³	Test Area	10.18m ² (3.36m×3.03m)
Description of Test Arrangement	The installation of samples refers to type E mounting. The samples are installed in the reverberation room, covered with a 3.0mm thick steel plate around the perimeter edges, 100mm back cavity.		



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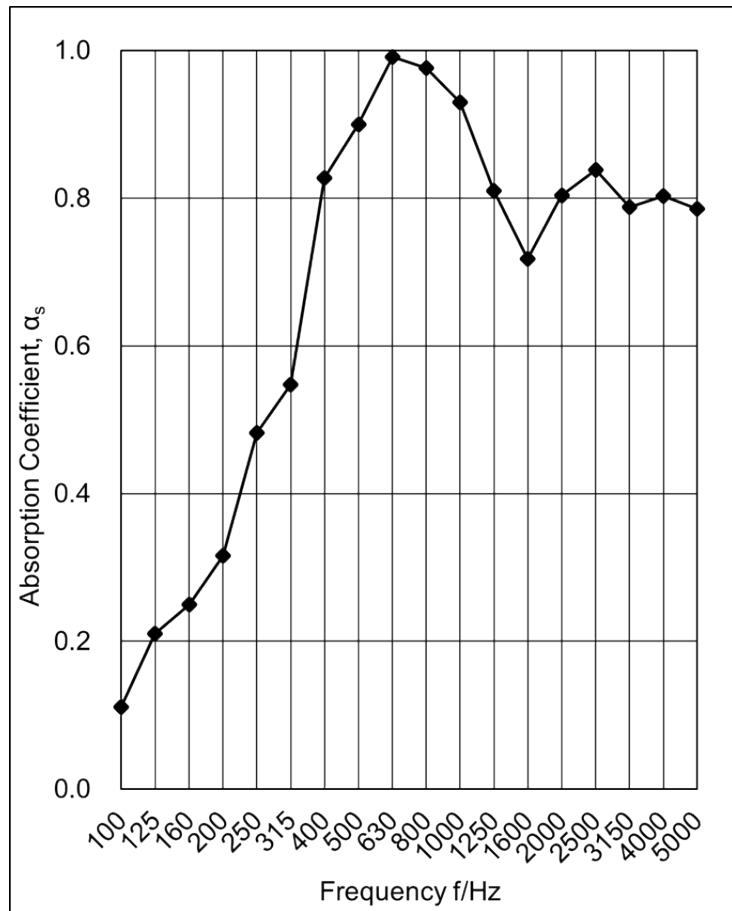
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IV. Test Result

Frequency f/Hz	Absorption Coefficient, α_s
100	0.11
125	0.21
160	0.25
200	0.32
250	0.48
315	0.55
400	0.83
500	0.90
630	0.99
800	0.98
1000	0.93
1250	0.81
1600	0.72
2000	0.80
2500	0.84
3150	0.79
4000	0.80
5000	0.79
$\bar{\alpha}_s$	0.67
NRC	0.80



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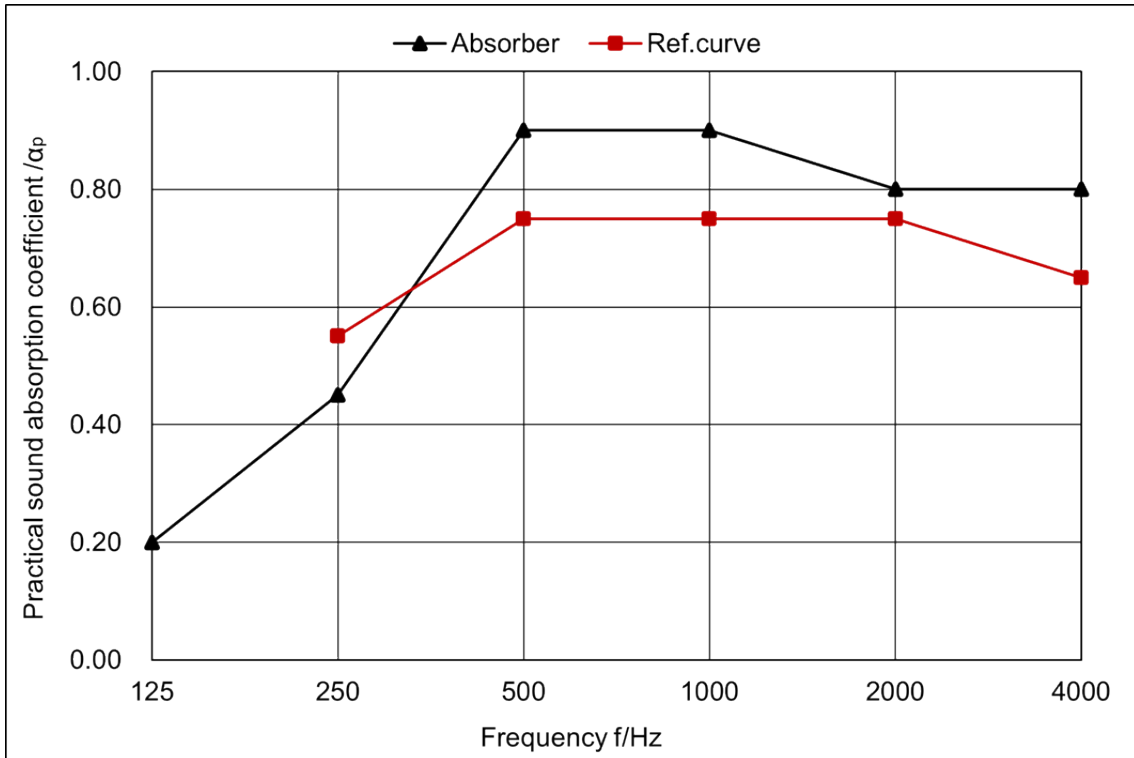
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Frequency Hz	Reference Curve	Practical Sound Absorption Coefficient, α_p	Weighted Sound Absorption Coefficient, α_w	Sound Absorption Class
125	-	0.20	0.75	Class C
250	0.55	0.45		
500	0.75	0.90		
1000	0.75	0.90		
2000	0.75	0.80		
4000	0.65	0.80		



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V. Weighted Sound Absorption Coefficient

Calculated according to EN ISO 11654:1997:

Average Absorption Coefficient $\bar{\alpha}_s$ (100Hz~5000Hz): 0.67

Noise Reduction Coefficient: NRC=0.80

Weighted sound absorption coefficient: $\alpha_w=0.75$

Sound absorption class: Class C

Note:

- 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 $\alpha_w=0.00;0.05;0.10$
- NRC is the arithmetic average of absorption coefficient contained four octave frequency bands (250, 500, 1000, 2000 Hz).
- 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.

The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

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



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