

TEST REPORT

No. : CZIN2405000096CM01_EN

Date : 2024-07-09

Page: 1 of 6



CUSTOMER NAME: INTCO RECYCLING RESOURCES CO., LTD.
ADDRESS: QINGTIAN ROAD, QILU CHEMICAL INDUSTRIAL PARK, LINZI DISTRICT, ZIBO CITY, SHANDONG PROVINCE

Sample Name : ACOUSTIC WALL PANEL
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. : SHIN2405001231CM04
Date of Receipt : 2024-05-27
Testing Period : 2024-05-27 ~ 2024-06-21
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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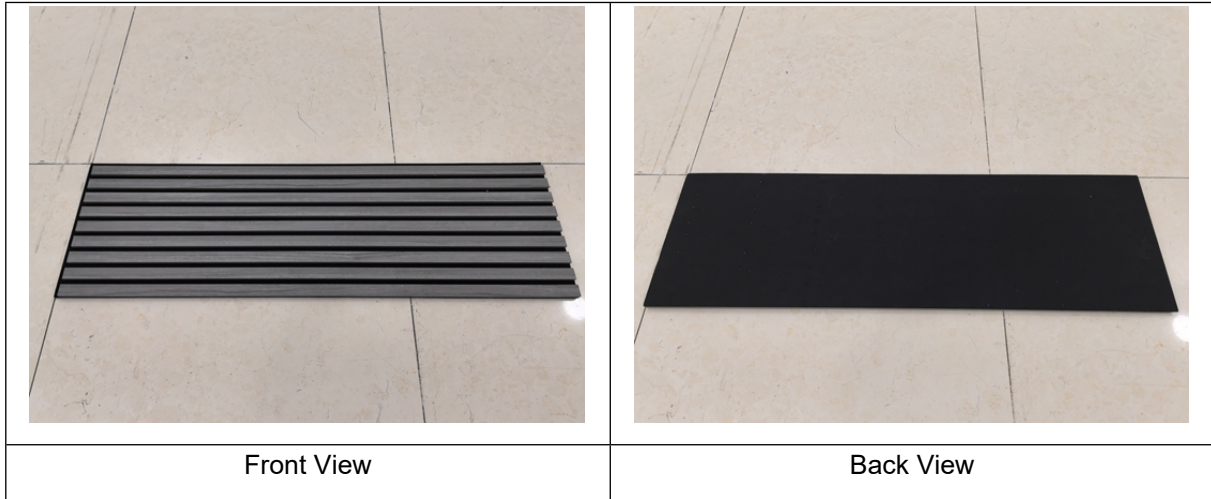
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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Sound Absorption Coefficient	EN 15102:2007+A1:2011 & 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 15102:2007+A1:2011 Decorative wall coverings - Roll and panel form, Clause 4.4 - Sound Absorption

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

II. Sample Details

Dimensions	1175mm×365mm×15mm
Surface Density	About 5.50kg/m ²

III. Test Condition

Ambient Temperature	22.6°C	Ambient Humidity	69.0%RH
Volume Reverberation Room	260m ³	Test Area	11.44m ² (3.53m×3.24m)
Description of Test Arrangement	<p>The installation of specimen refers to type A mounting.</p> <p>The sample is placed directly in the reverberation room, covered with caulking compound around the perimeter edges.</p>		



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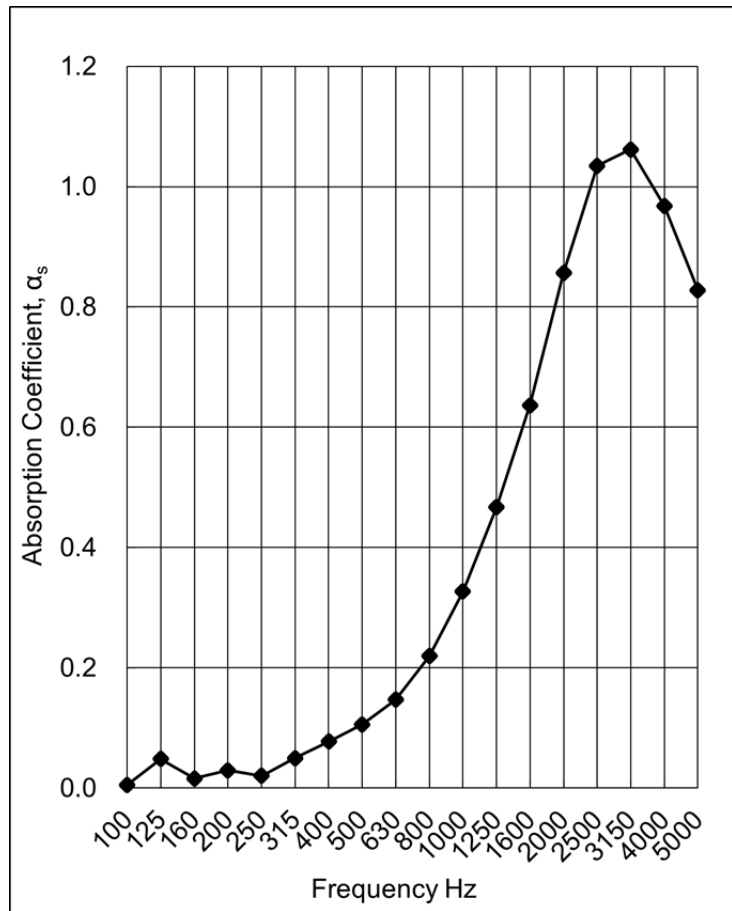
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IV. Test Result

Frequency Hz	Absorption Coefficient, α_s
100	0.01
125	0.05
160	0.02
200	0.03
250	0.02
315	0.05
400	0.08
500	0.11
630	0.15
800	0.22
1000	0.33
1250	0.47
1600	0.64
2000	0.86
2500	1.03
3150	1.06
4000	0.97
5000	0.83
$\bar{\alpha}_s$	0.38
NRC	0.35



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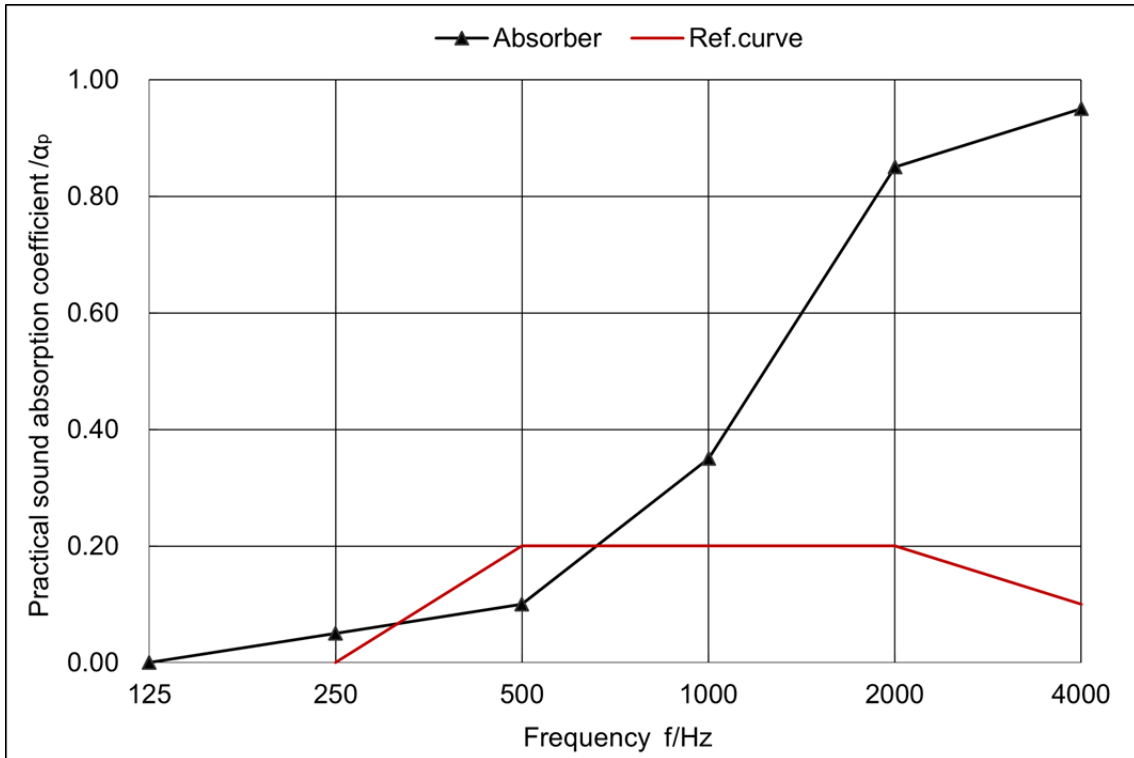
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Frequency Hz	Reference Curve	Practical Sound Absorption Coefficient, α_p	Weighted Sound Absorption Coefficient, α_w	Sound Absorption Class
125	-	0.00	0.20(H)	Class E
250	0.00	0.05		
500	0.20	0.10		
1000	0.20	0.35		
2000	0.20	0.85		
4000	0.10	0.95		



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V. Weighted Sound Absorption Coefficient

Calculated according to EN ISO 11654:1997:

Average Absorption Coefficient $\bar{\alpha}_s$ (100Hz~5000Hz): 0.38

Noise Reduction Coefficient: NRC=0.35

Weighted sound absorption coefficient: $\alpha_w=0.20(H)$

Sound absorption classes: Class E

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. Shape indicators, L, M, H
Indication showing practical sound absorption coefficient exceeding those of the shifted reference curve by 0.25 or more in different frequency ranges as specified in this international standard.
4. It is strongly recommended to use this single-number rating in combination with the complete sound absorption coefficient curve that can be obtained on request.
5. 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*****



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