

TEST REPORT

No. : CZIN2402000028CM01_EN

Date : 2024-03-14

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CUSTOMER NAME: JINHUA HONGSHENG CULTURAL AND CREATIVE CO.,LTD
ADDRESS: 2ND FLOOR, BUILDING 2, NO. 116, CHAOHUANG ROAD,CAOZHAI
TOWN, JINDONG DISTRICT, JINHUA, ZHEJIANG

Sample Name : ACOUSTIC 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.

SGS Ref. No. : SHIN2402000320CM01
Other Ref. No. : IN-SH-CP-5627-24036
Date of Receipt : 2024-02-02
Testing Period : 2024-02-02 ~ 2024-03-14
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..

Jack Zhang
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Sound Absorption Coefficient	EN 15102:2007+A1:2011 Clause 4.4 & 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	2400mm×600mm×21mm
Surface Density	About 7.56kg/m ²

III. Test Condition

Ambient Temperature	16.8°C	Relative Humidity	65.0%RH
Volume Reverberation Room	260m ³	Test Area	10.65m ² (3.55m×3.00m)
Description of Test Arrangement	<p>The installation of samples refers to type E mounting.</p> <p>The samples are installed in the reverberation room, use baffle to enclosure, 100mm back cavity.</p>		



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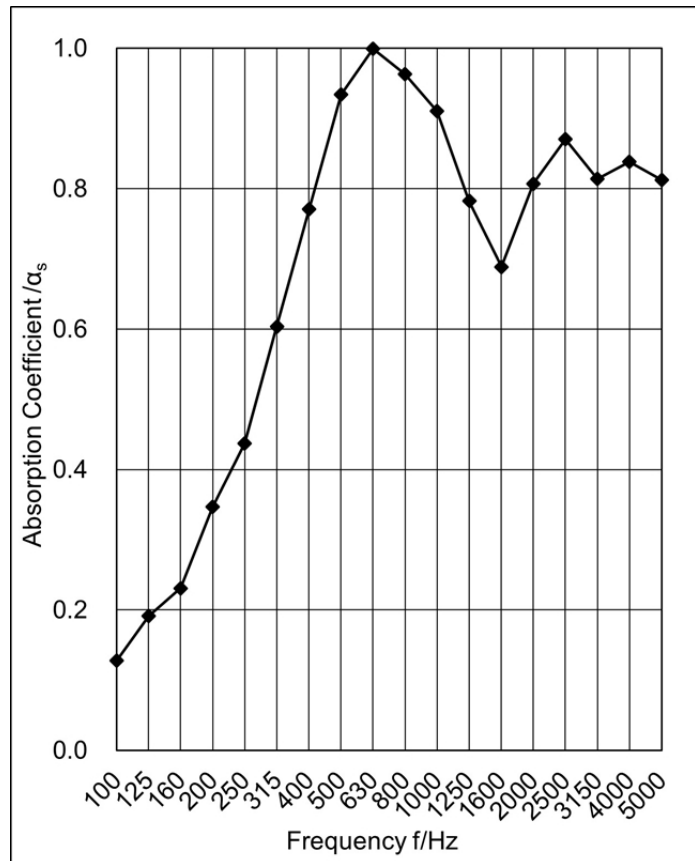
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IV. Test Result

Frequency f/Hz	Absorption Coefficient, α_s
100	0.13
125	0.19
160	0.23
200	0.35
250	0.44
315	0.60
400	0.77
500	0.93
630	1.00
800	0.96
1000	0.91
1250	0.78
1600	0.69
2000	0.81
2500	0.87
3150	0.81
4000	0.84
5000	0.81
$\bar{\alpha}_s$	0.67
NRC	0.75



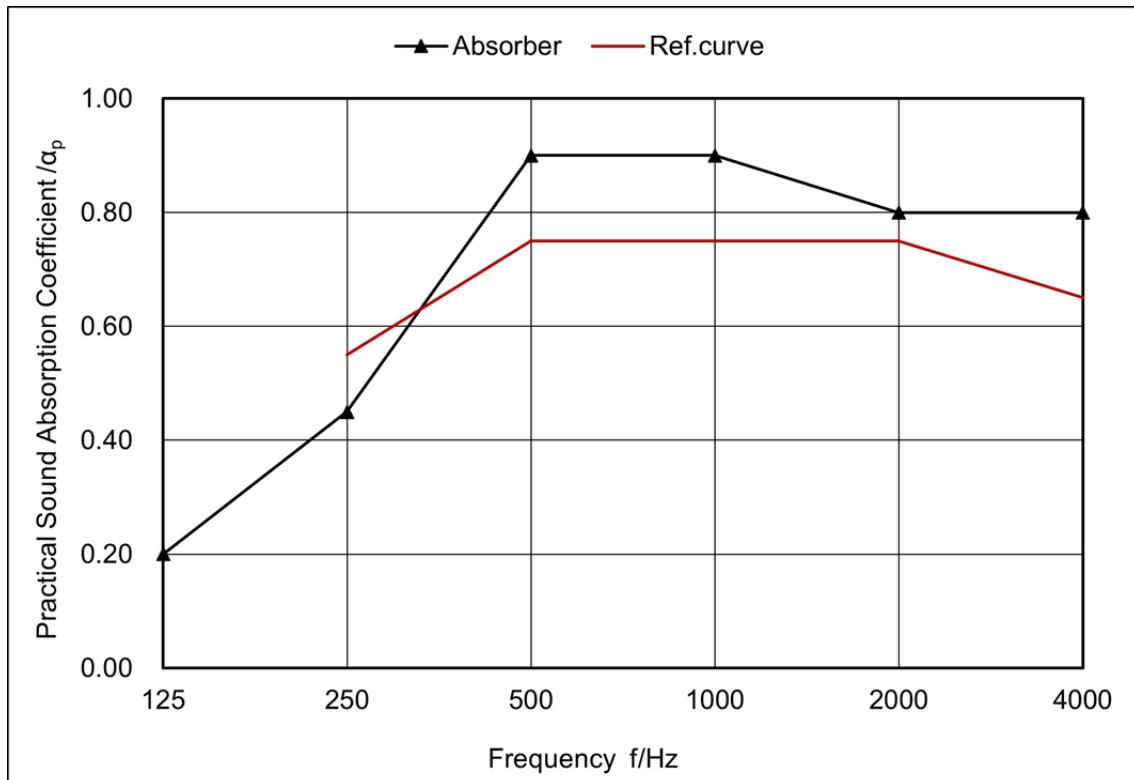
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Frequency/Hz	Reference Curve	Practical Sound Absorption Coefficient, α_p	Weighted Sound Absorption Coefficient, α_w	Sound Absorption Class
125	-	0.20	0.75	Class C
250	0.55	0.45		
500	0.75	0.90		
1000	0.75	0.90		
2000	0.75	0.80		
4000	0.65	0.80		



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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=0.75

Weighted sound absorption coefficient: α_w =0.75

Sound absorption class: Class C

Note:

- According to EN ISO 11654:1997, Sound absorption classes is five:
Class A α_w =0.90;0.95;1.00
Class B α_w =0.80;0.85
Class C α_w =0.60;0.65;0.70;0.75
Class D α_w =0.30;0.35;0.40;0.45;0.50;0.55
Class E α_w =0.15;0.20;0.25
Not classified α_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.

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



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