

TEST REPORT

No. : CZIN2403000047CM01_EN

Date : 2024-03-15

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Ter Huerne Gmbh U.Co. Kg

RAMSDORFER STR. 5 46354 SUDLOHN GERMANY

Sample Name : WOODEN SLAT 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. : TJHL2403001547HI

Date of Receipt : 2024-03-06

Testing Period : 2024-03-06 ~ 2024-03-15

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

Jack Zhang
Authorized signatory



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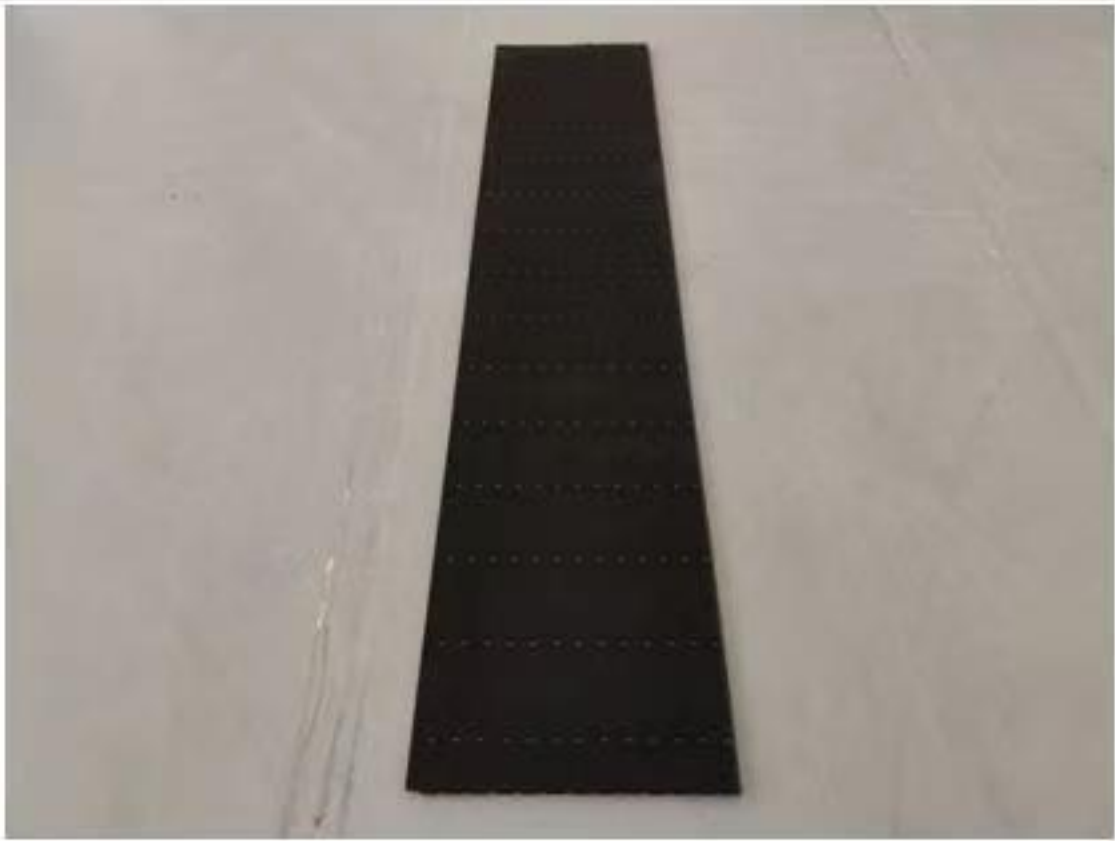
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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Sound Absorption Coefficient	EN 15102:2007+A1:2011, 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):

	
Front View (21.5mm Thick Acoustic Panel)	Back View (21.5mm Thick Acoustic Panel)



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20mm Thick PET Sound-absorbing Material with a Surface Density of 1.44kg
(Only Used for Installation of Samples)



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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	2484mm × 520mm × 21.5mm
Surface Density	About 7.51kg/m ²

III. Test Condition

Ambient Temperature	15.2°C	Relative Humidity	42.9%RH
Volume Reverberation Room	260m ³	Test Area	11.37m ² (3.79m×3.00m)
Description of Test Arrangement	The installation of samples refers to type A mounting. Install the 21.5mm thick acoustic panel in the reverberation room. The installation method: Test sample (thickness: 21.5mm) + 40mm thick cavity (filled with double-layer 20mm thick PET sound-absorbing material inside), covered with a frame around the perimeter edges.		



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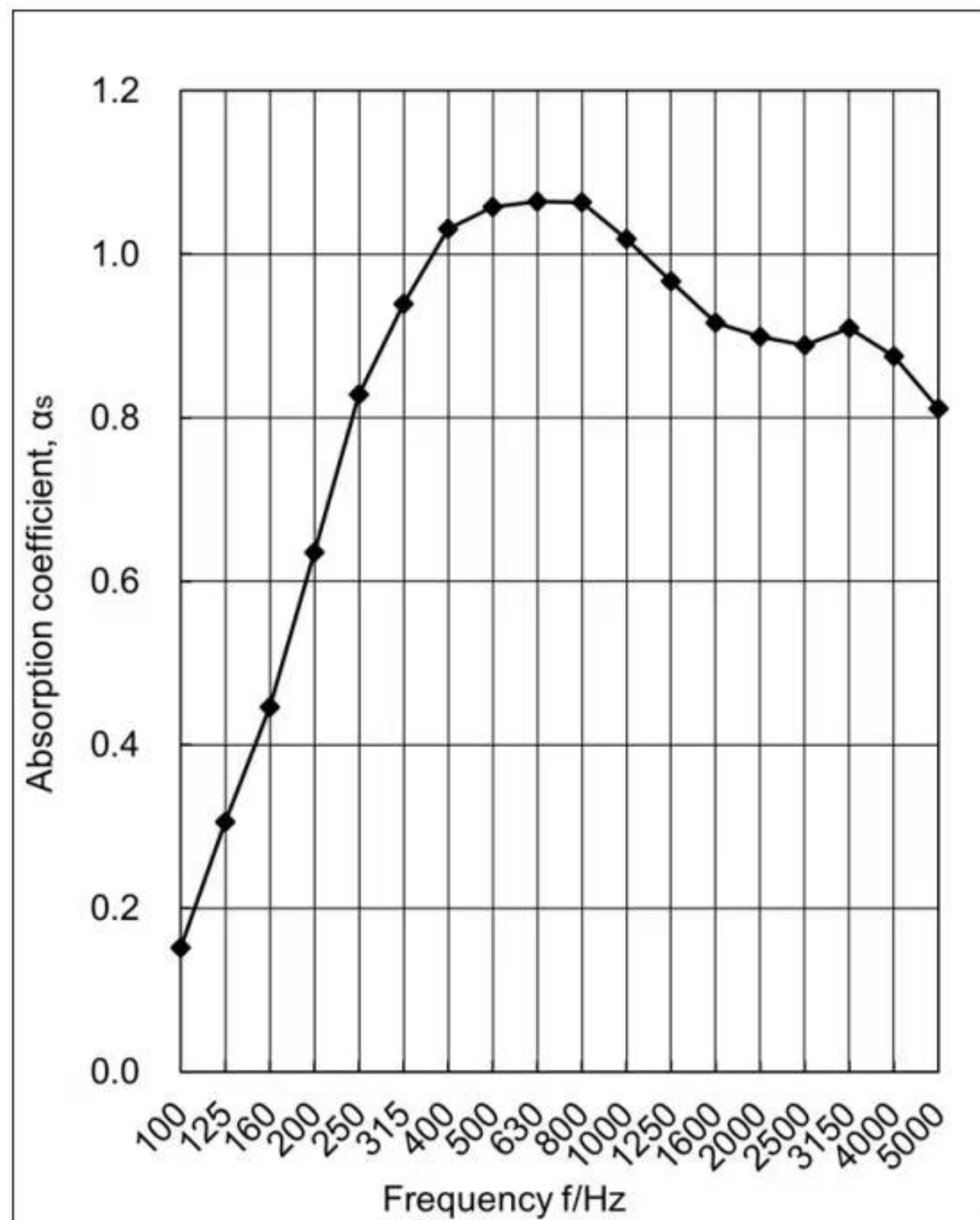
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IV. Test Result

Frequency Hz	Absorption Coefficient, α_s
100	0.15
125	0.31
160	0.45
200	0.63
250	0.83
315	0.94
400	1.03
500	1.06
630	1.06
800	1.06
1000	1.02
1250	0.97
1600	0.92
2000	0.90
2500	0.89
3150	0.91
4000	0.87
5000	0.81
$\bar{\alpha}_s$	0.82
NRC	0.95



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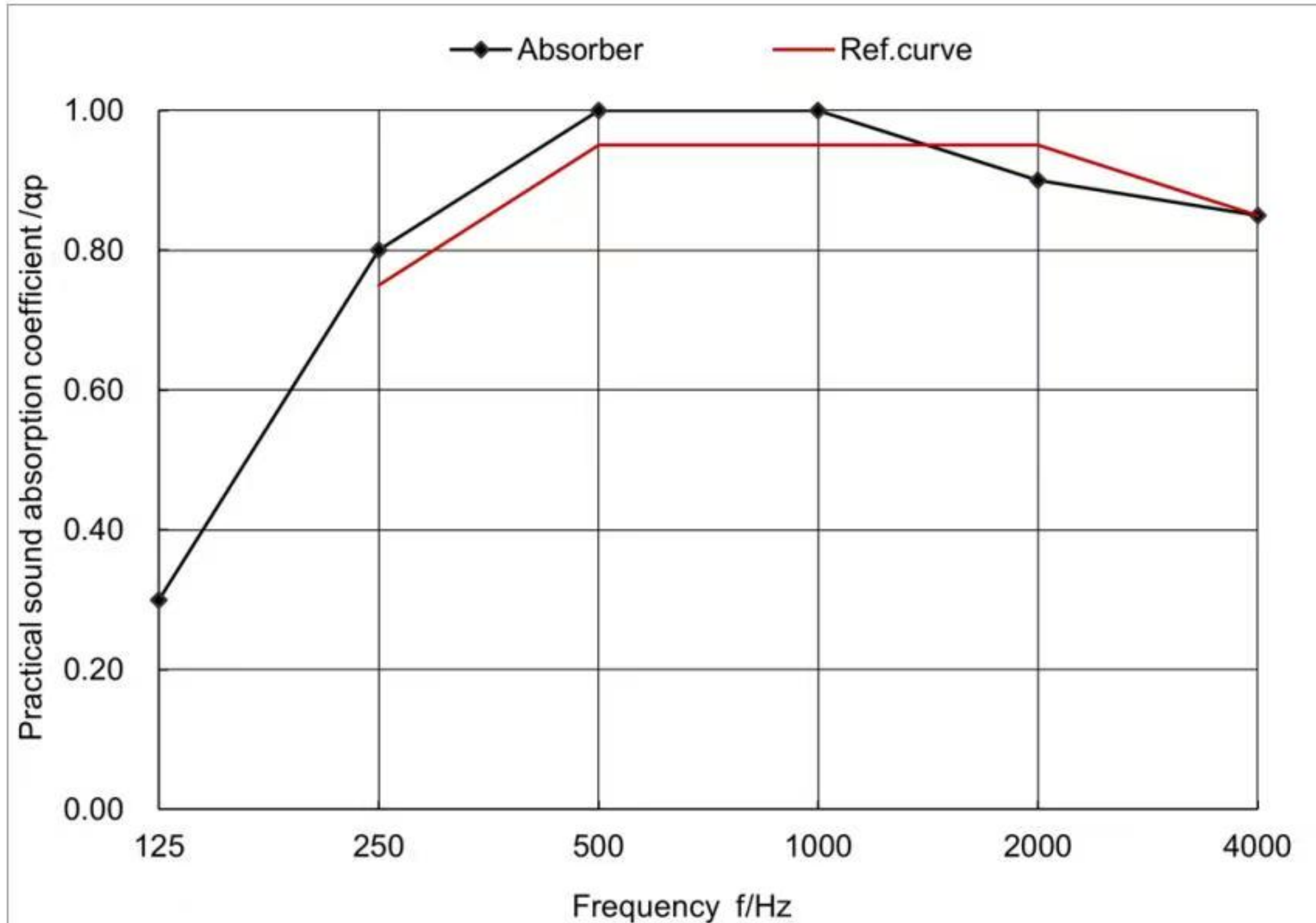
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Frequency Hz	Reference Curve	Practical Sound Absorption Coefficient, α_p	Weighted Sound Absorption Coefficient, α_w	Sound Absorption Class
125	-	0.30	0.95	Class A
250	0.75	0.80		
500	0.95	1.00		
1000	0.95	1.00		
2000	0.95	0.90		
4000	0.85	0.85		



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V. Weighted Sound Absorption Coefficient

Calculated according to EN ISO 11654:1997:

Average Absorption Coefficient $\bar{\alpha}_s$ (100Hz~5000Hz): 0.82

Noise Reduction Coefficient: NRC=0.95

Weighted sound absorption coefficient: α_w =0.95

Sound absorption classes: Class A

Note:

1. According to EN ISO 11654:1997, Sound absorption classes is five:

Class A α_w =0.90;0.95;1.00Class B α_w =0.80;0.85Class C α_w =0.60;0.65;0.70;0.75Class D α_w =0.30;0.35;0.40;0.45;0.50;0.55Class E α_w =0.15;0.20;0.25Not classified α_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.



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VI. Test Photo(s):



In Test

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