

TEST REPORT

No. : CZIN2503000044CM01_EN

Date : 2025-03-14

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CUSTOMER NAME: CLOUD D.O.O.
 ADDRESS: ULICA DRAGUTINA RAKOVCA 3 42000 VARAŽDIN – CROATIA
 VAT NUMBER: HR92781041318

Sample Name : PET FELT 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. : SHHL2502006609FT
 Date of Receipt : 2025-03-03
 Testing Period : 2025-03-03 ~ 2025-03-14
 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

Jack Zhang
 Authorized signatory



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 中国·常州·天宁区河海东路3号 邮编: 213021

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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Sound Absorption Coefficient	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:



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SGS-CSTC (常州) 有限公司
Commercial Construction Technical Services (Changzhou) Co., Ltd.

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Test Item: Sound Absorption Coefficient

I. Test Method

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

II. Sample Details

Dimensions	2440mm × 1220mm × 12mm
Surface Density	About 2.32kg/m ²

III. Test Condition

Ambient Temperature	16.5°C	Ambient Humidity	57.7%RH
Volume Reverberation Room	260m ³	Test Area	11.13m ² (3.66m×3.04m)
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, 200mm back cavity.		



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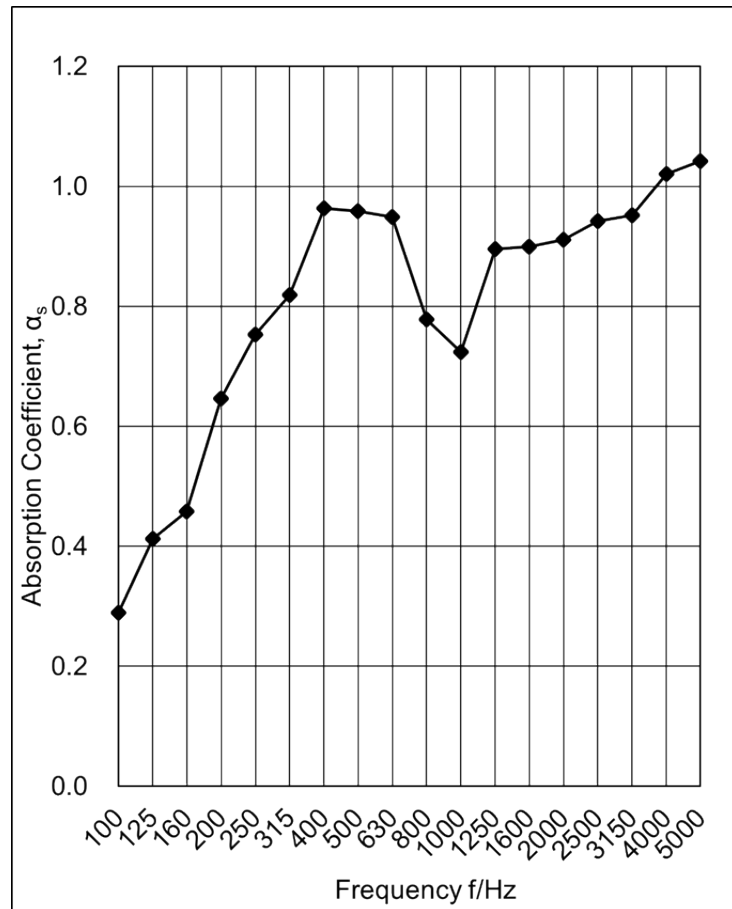
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IV. Test Result

Frequency Hz	Absorption Coefficient, α_s
100	0.29
125	0.41
160	0.46
200	0.65
250	0.75
315	0.82
400	0.96
500	0.96
630	0.95
800	0.78
1000	0.72
1250	0.90
1600	0.90
2000	0.91
2500	0.94
3150	0.95
4000	1.02
5000	1.04
$\bar{\alpha}_s$	0.80
NRC	0.85



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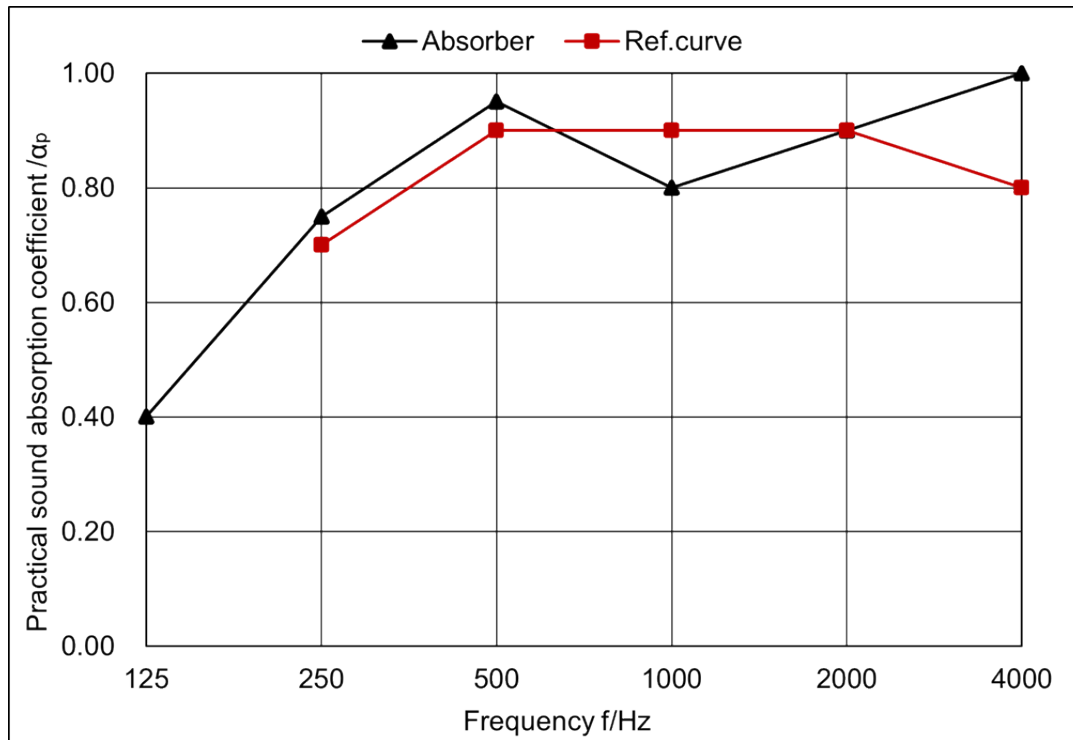
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Frequency Hz	Reference Curve	Practical Sound Absorption Coefficient, α_p	Weighted Sound Absorption Coefficient, α_w	Sound Absorption Class
125	-	0.40	0.90	Class A
250	0.70	0.75		
500	0.90	0.95		
1000	0.90	0.80		
2000	0.90	0.90		
4000	0.80	1.00		



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V. Weighted Sound Absorption Coefficient

Calculated according to ISO 11654:1997:

Average Absorption Coefficient $\bar{\alpha}_s$ (100Hz~5000Hz): 0.80

Noise Reduction Coefficient: NRC=0.85

Weighted sound absorption coefficient: α_w =0.90

Sound absorption classes: Class A

Note:

1. According to 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

2. NRC is the arithmetic average of absorption coefficient contained four octave frequency bands (250, 500, 1000, 2000 Hz).

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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