

TEST REPORT

No. : XMIN2312001591CM03-1_EN

Date : 2023-12-29

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CUSTOMER NAME:

ADDRESS:

Sample Name : ACOUSTIC WALL PANEL

Product Specification : 1200-3000*600/300/280*21mm: 1200*600/400/280*21mm,
2400*600/400/280*21mm,
2600*600/400/280*21mm, 2700*600/400/280*21mm,
2900*600/400/280*21mm,
3000*600/400/280*21mm, 600*600*21mm

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. : CZIN2312000128CM01-1_EN

Date of Receipt : 2023-12-08

Testing Period : 2023-12-08 ~ 2023-12-27

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 Co.,Ltd. Xiamen Branch.

Bryan Hong
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result
1	Sound Absorption Coefficient	ISO 354:2003	See Result

Original Sample Photo(s):

	
Front View	Back View

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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	2400mm × 600mm × 21mm
Surface Density	About 7.87kg/m ²

III. Test Condition

Ambient Temperature	16.3℃	Relative Humidity	32.4%RH
Volume Reverberation Room	260m ³	Test Area	10.80m ² (3.60m×3.00m)
Description of Test Arrangement	The installation of samples refers to type E-200 mounting. The samples are installed in the reverberation room, use baffle to enclosure.		



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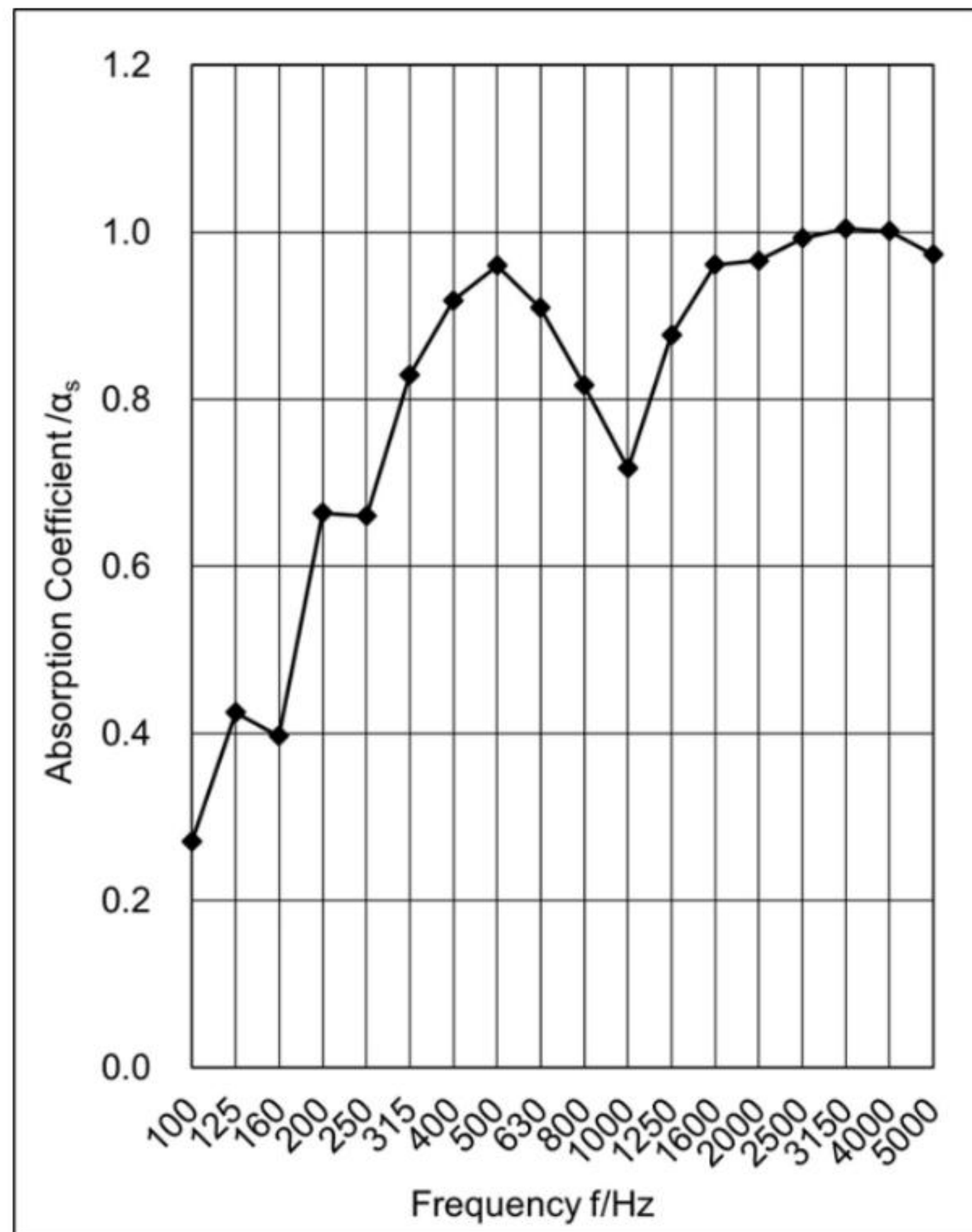
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IV. Test Result

Frequency f/Hz	Absorption Coefficient, α_s
100	0.27
125	0.42
160	0.40
200	0.66
250	0.66
315	0.83
400	0.92
500	0.96
630	0.91
800	0.82
1000	0.72
1250	0.88
1600	0.96
2000	0.97
2500	0.99
3150	1.00
4000	1.00
5000	0.97
$\bar{\alpha}_s$	0.80
NRC	0.85



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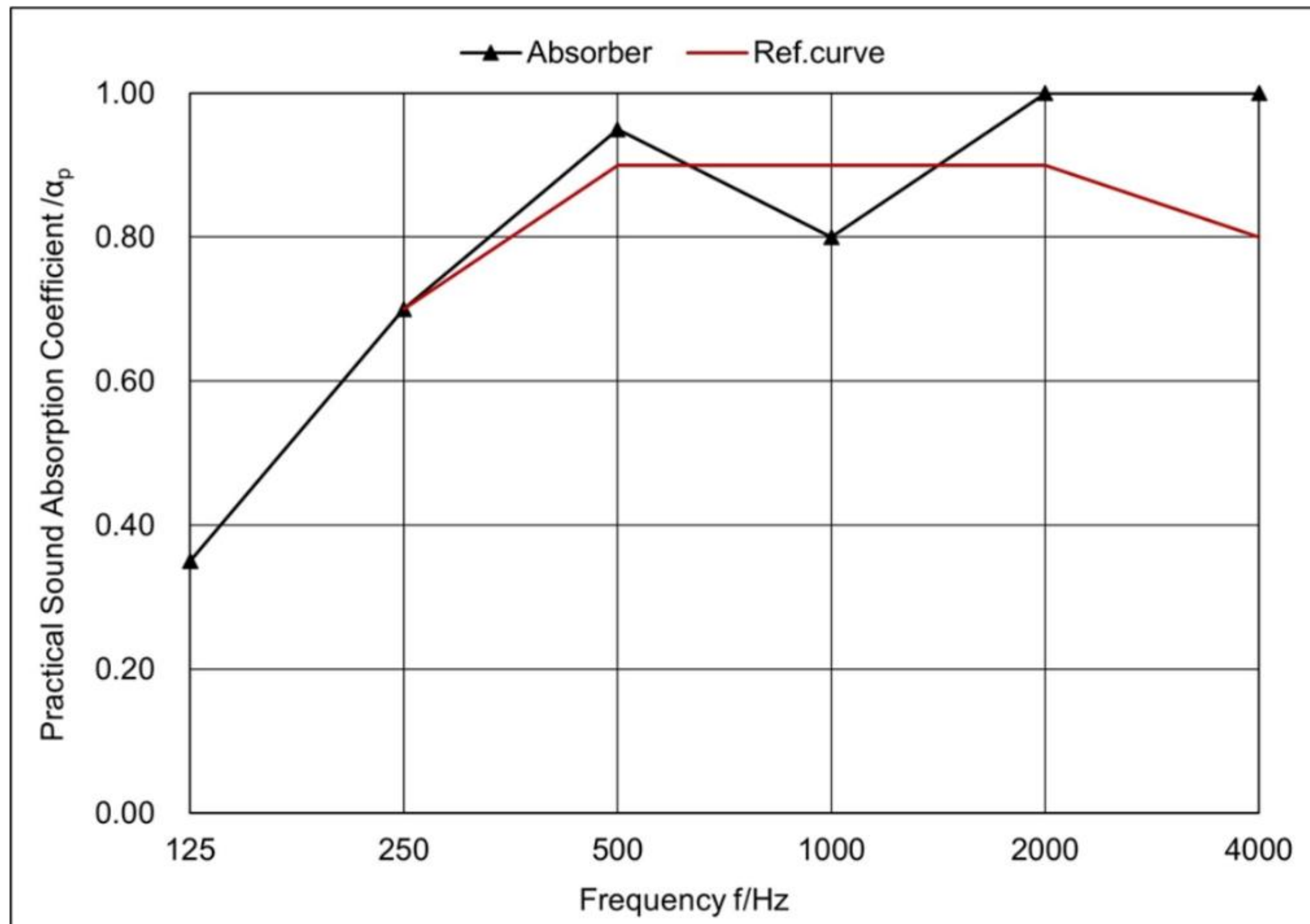
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Frequency/Hz	Reference Curve	Practical Sound Absorption Coefficient, α_p	Weighted Sound Absorption Coefficient, α_w	Sound Absorption Class
125	-	0.35	0.90	Class A
250	0.70	0.70		
500	0.90	0.95		
1000	0.90	0.80		
2000	0.90	1.00		
4000	0.80	1.00		



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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 class: Class A

Note:

- 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
- 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.
- This test report updates Dimensions, supersedes the test report No. XMIN2312001591CM03_EN dated 2023-12-27, original report will be invalid from today.

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



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