

TEST REPORT

No. : CZIN2303000023CM-01

Date: Mar 27, 2023

Page: 3 of 6

Test Item: Sound Absorption Coefficient

I. Test Method

EN 15102:2019 Decorative wallcoverings - Roll form, Clause 4.7 - 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 7.53kg/m ²

III. Test Condition

Ambient Temperature	15.0°C	Relative Humidity	86.8%RH
Volume Reverberation Room	260m ³	Test Area	10.8m ² (3.6m×3.0m)
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. 100mm back cavity.		

TEST REPORT

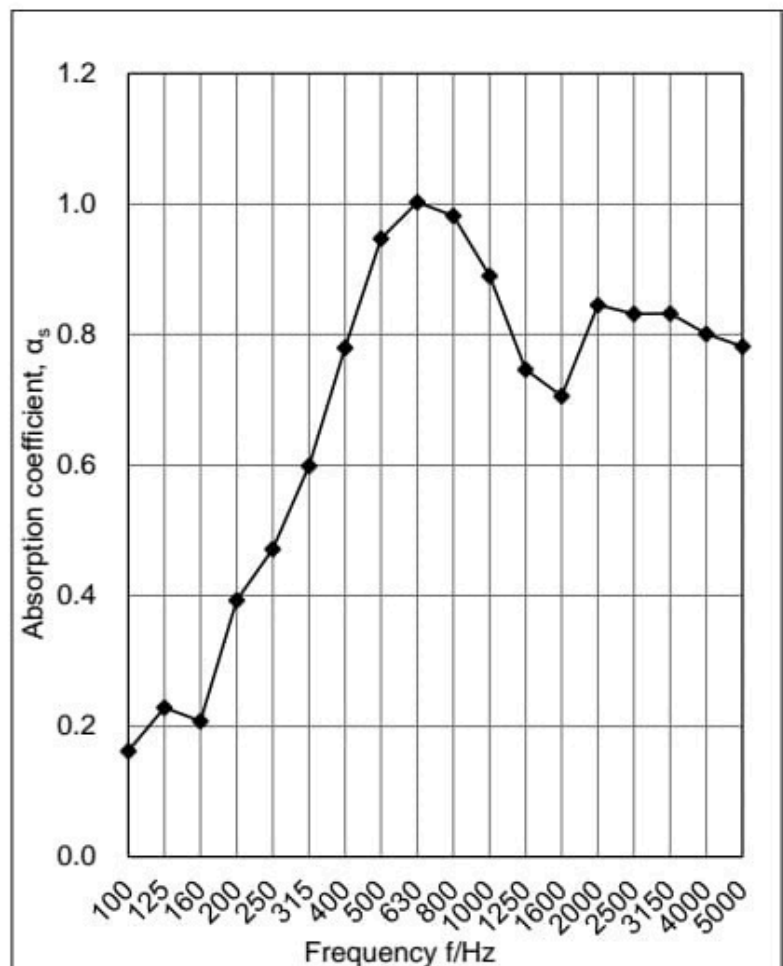
No. : CZIN2303000023CM-01

Date: Mar 27, 2023

Page: 4 of 6

IV. Test Result

Frequency, Hz	Absorption Coefficient, α_s
100	0.16
125	0.23
160	0.21
200	0.39
250	0.47
315	0.60
400	0.78
500	0.95
630	1.00
800	0.98
1000	0.89
1250	0.75
1600	0.71
2000	0.85
2500	0.83
3150	0.83
4000	0.80
5000	0.78
$\bar{\alpha}_s$	0.68
NRC	0.80



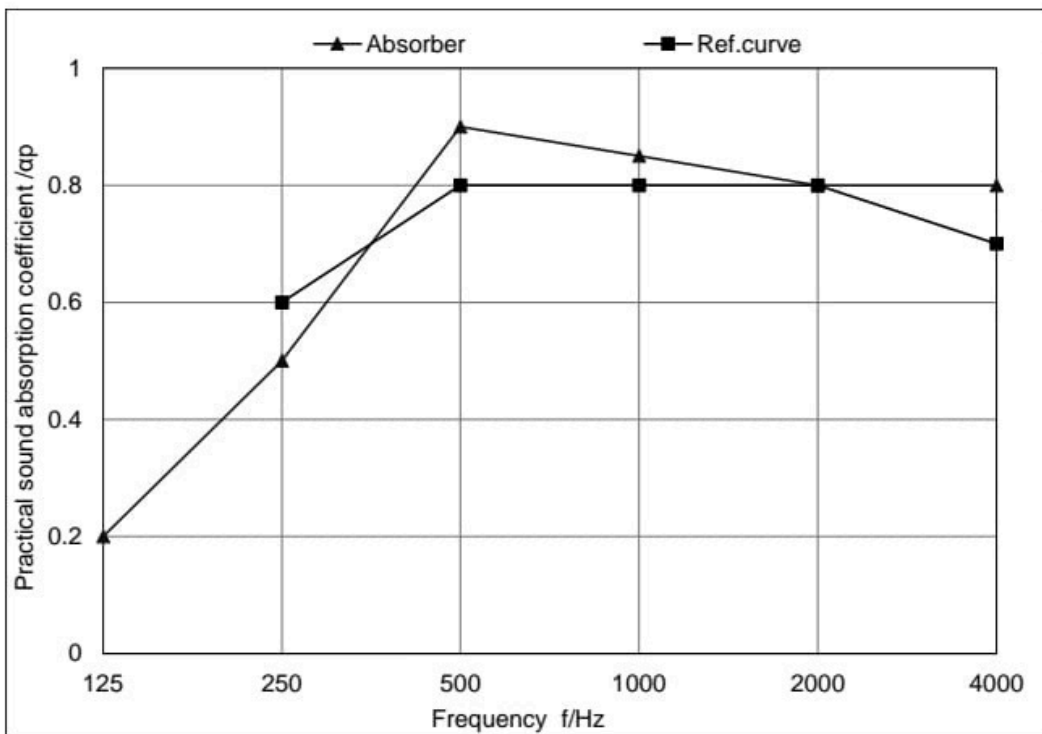
TEST REPORT

No. : CZIN2303000023CM-01

Date: Mar 27, 2023

Page: 5 of 6

Frequency/Hz	Reference curve	Practical sound absorption coefficient, α_p	Weighted sound absorption coefficient, α_w	Sound absorption classes
125	-	0.20	0.80	Class B
250	0.60	0.50		
500	0.80	0.90		
1000	0.80	0.85		
2000	0.80	0.80		
4000	0.70	0.80		





TEST REPORT

No. : CZIN2303000023CM-01

Date: Mar 27, 2023

Page: 6 of 6

V. Weighted Sound Absorption Coefficient

Calculated according to EN ISO 11654:1997:

Average Absorption Coefficient $\bar{\alpha}_s$ (100Hz~5000Hz): 0.68

Noise Reduction Coefficient: NRC=0.80

Weighted sound absorption coefficient: α_w =0.80

Sound absorption classes: Class B

Note:

1. 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
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.

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