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CNAS L11949

TEST REPORT

SCOPE OF WORK

Polyester fiber panels

REPORT NUMBER

250226003SHF-001

TEST DATE(S)

2025-02-26 - 2025-03-24

ORIGINAL ISSUE DATE

2025-03-24

PAGES

10

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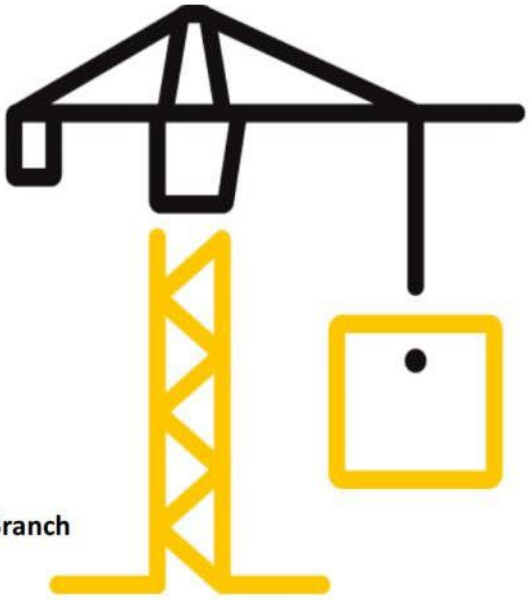

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Test Report

Original Issue Date: 2025-03-24 Intertek Report No. 250226003SHF-001

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
Polyester fiber panels	KP-Color	2440*1220*9mm 1600gsm
Sample ID	**Sample Amount**	**Sample Received Date**
S250226003SHF.001	6 pcs	2025-02-24
Sample Description		**Brand**
2440*1220*9mm 1600gsm		**Sonara**

Test Methods And Standards

Test Standard	ASTM C423-23$^{\varepsilon 1}$
Specification Standard	/
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:
1.This report does not involve sampling. The report only reflects conformity of the tested items of the samples provided by the testing applicant. Representativeness and authenticity of the submitted samples are responsibilities of the testing applicant.

Report Authorized

Name: Jodie Zhou Name: Jun Yun
Title: Reviewer Title: Project Engineer

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Test Items, Method and Results:

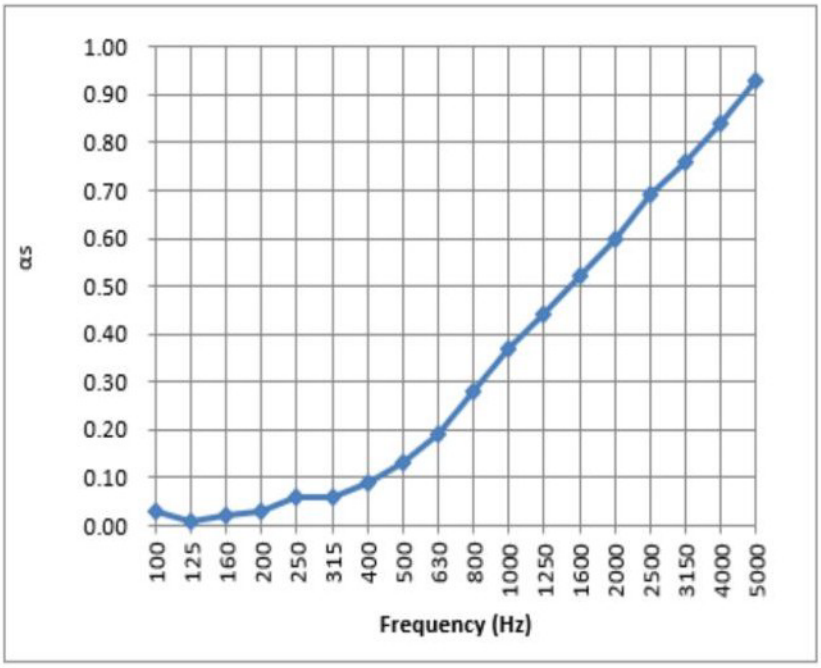
Test Method: ASTM C423-23$^{\varepsilon 1}$ Sound Absorption Coefficients

Volume of the reverberation room	Vs, m^3	240	Installation Type:	Type A
Room temperature	t1, ºC	14	t2, ºC	14
Relative humidity of test rooms	H1,%	70	H2,%	70

Sample description:

Sample size (width*length),mm	1220*2440	Thickness, mm	9.0
Edge treatment	/	Mass, kg/m^2	1.55
Test Area, m^2	10.8		

Frequency (Hz)	αs
100	0.03
125	0.01
160	0.02
200	0.03
250	0.06
315	0.06
400	0.09
500	0.13
630	0.19
800	0.28
1000	0.37
1250	0.44
1600	0.52
2000	0.60
2500	0.69
3150	0.76
4000	0.84
5000	0.93
NRC	0.30
SAA	0.29



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Original Issue Date: 2025-03-24 Intertek Report No. 250226003SHF-001

Appendix A: Test Photos

Type A Test set up

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Test Items, Method and Results:

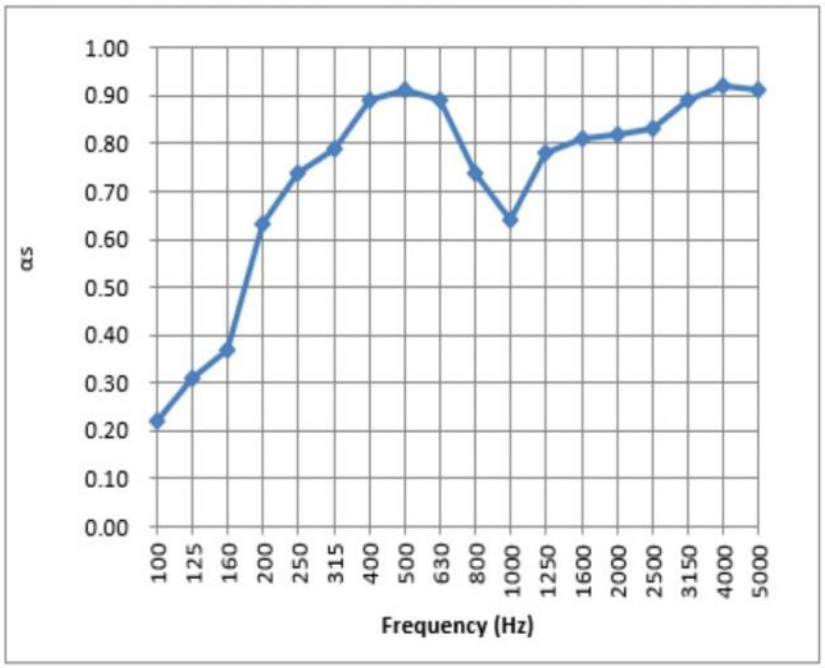
Test Method: ASTM C423-23$^{\varepsilon 1}$ Sound Absorption Coefficients

Volume of the reverberation room	Vs, m^3	240	Installation Type:	E200
Room temperature	t1, ºC	13	t2, ºC	13
Relative humidity of test rooms	H1,%	70	H2,%	70

Sample description:

Sample size (width*length),mm	1220*2440	Thickness, mm	9.0
Edge treatment	/	Mass, kg/m^2	1.55
Test Area, m^2	10.8		

Frequency (Hz)	αs
100	0.22
125	0.31
160	0.37
200	0.63
250	0.74
315	0.79
400	0.89
500	0.91
630	0.89
800	0.74
1000	0.64
1250	0.78
1600	0.81
2000	0.82
2500	0.83
3150	0.89
4000	0.92
5000	0.91
NRC	0.80
SAA	0.79



Test Report

Original Issue Date: 2025-03-24 Intertek Report No. 250226003SHF-001

Appendix B: Test Photos

E200 Test set up

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Test Report

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Test Items, Method and Results:

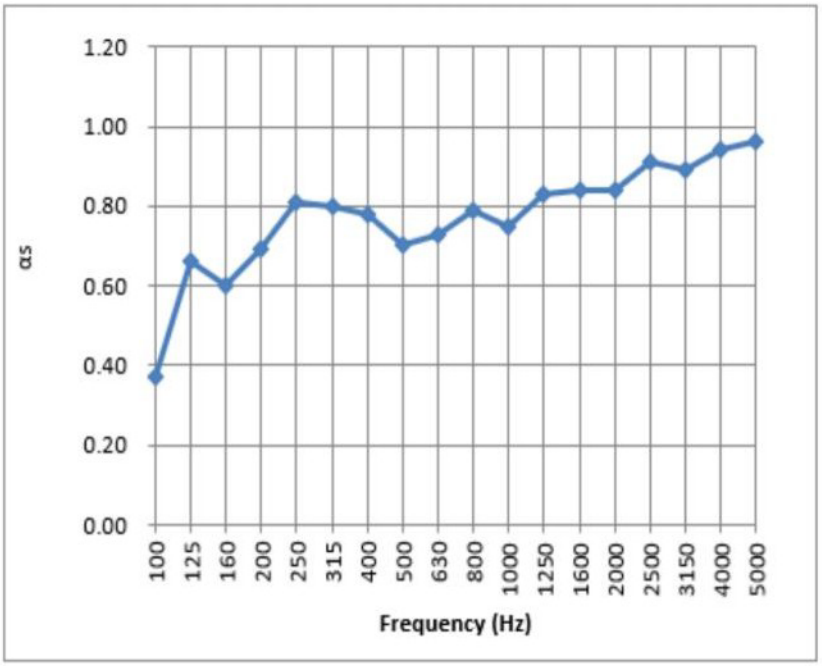
Test Method: ASTM C423-23$^{\varepsilon 1}$ Sound Absorption Coefficients

Volume of the reverberation room	Vs, m^3	240	Installation Type:	E400
Room temperature	t1, ºC	15	t2, ºC	15
Relative humidity of test rooms	H1,%	60	H2,%	60

Sample description:

Sample size (width*length),mm	1220*2440	Thickness, mm	9.0
Edge treatment	/	Mass, kg/m^2	1.55
Test Area, m^2	10.8		

Frequency (Hz)	αs
100	0.37
125	0.66
160	0.60
200	0.69
250	0.81
315	0.80
400	0.78
500	0.70
630	0.73
800	0.79
1000	0.75
1250	0.83
1600	0.84
2000	0.84
2500	0.91
3150	0.89
4000	0.94
5000	0.96
NRC	0.80
SAA	0.79



Test Report

Original Issue Date: 2025-03-24 Intertek Report No. 250226003SHF-001

Appendix C: Test Photos

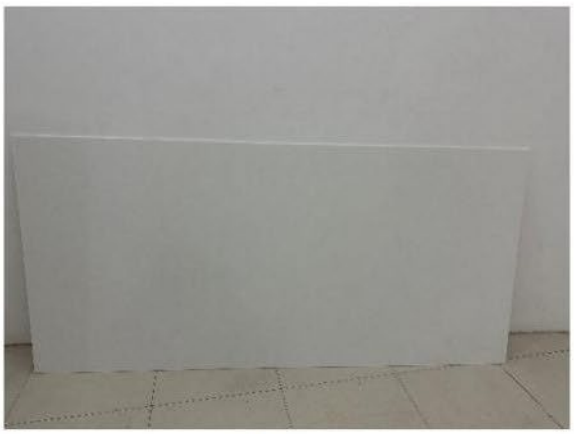
E400 Test set up

Test Report

Original Issue Date: 2025-03-24 Intertek Report No. 250226003SHF-001

Appendix D: Sample Received Photo

Front view (Test surface)



Back view

Revision:

NO.	Date	Changes
250226003SHF-001	2025-03-24	First issue