

## TEST REPORT

No. : CZIN2303000023CM-01

Date: Mar 27, 2023

Page: 1 of 6

CUSTOMER NAME: SHANGHAI INTCO INDUSTRIES CO., LTD  
ADDRESS: NO.1299 HUBIN ROAD, HUQIAO TOWN, FENG XIAN DISTRICT,  
SHANGHAI 201417 P. R. CHINA

Sample Name : ACOUSTIC WALL PANEL  
Manufacturer : Shandong INTCO Recycling Resources Co., Ltd

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.

\*\*\*\*\*

Test Required : Sound Absorption Coefficient  
SGS Ref. No. : SHIN2303000487CM  
Ref. Standard : EN 15102:2019 Clause 4.7 & EN ISO 354:2003  
Date of Receipt : Mar 07, 2023  
Testing Start Date : Mar 07, 2023  
Testing End Date : Mar 27, 2023  
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  
Service (Changzhou)Co., Ltd.



Tiffany Liu  
Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
**Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

No.3, Hehai East Road, Tianning District, Changzhou, China 213021  
中国·常州·天宁区河海东路3号 邮编:213021

t (86-519) 8876 9607 www.sgsgroup.com.cn  
t (86-519) 8876 9607 sgs.china@sgs.com

# TEST REPORT

No. : CZIN2303000023CM-01

Date: Mar 27, 2023

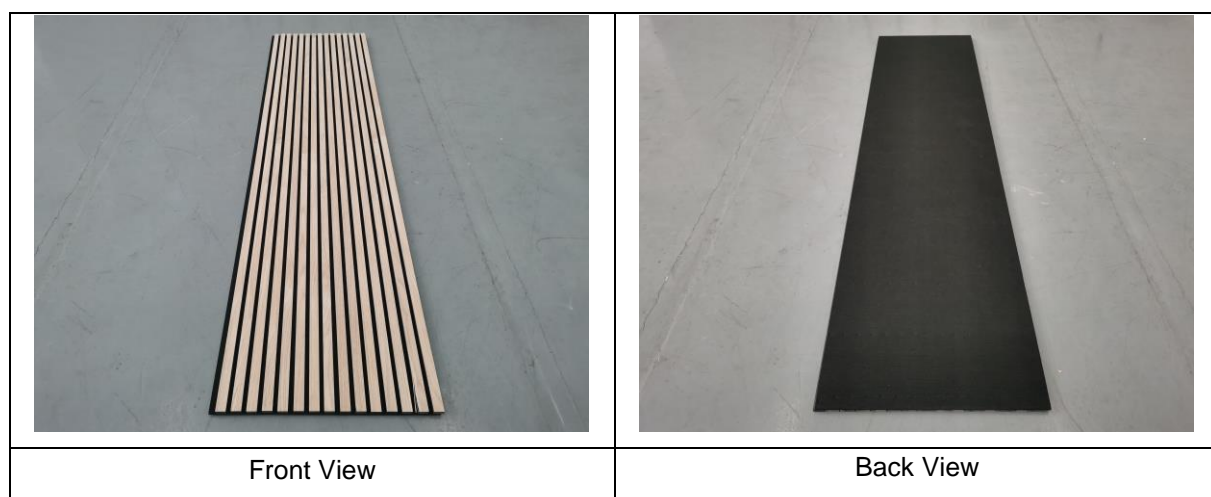
Page: 2 of 6

## Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Sound Absorption Coefficient	EN 15102:2019 Clause 4.7 & EN ISO 354:2003	See Result	/

Note: Pass: Meet the requirements;  
Fail: Does not meet the requirements;  
/: Not Apply to the judgment.

## Original Sample Photo(s):



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC (Technical Services) (Changzhou) Co., Ltd.  
Commercial Consignment (Technical Services)

No.3, Hehai East Road, Tianning District, Changzhou, China 213021  
中国·常州·天宁区河海东路3号 邮编:213021

t (86-519) 8876 9607 www.sgs.com.cn  
t (86-519) 8876 9607 sgs.china@sgs.com

# 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 <sup>2</sup>

## III. Test Condition

Ambient Temperature	15.0°C	Relative Humidity	86.8%RH
Volume Reverberation Room	260m <sup>3</sup>	Test Area	10.8m <sup>2</sup> (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.		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
**Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

SGS-CSTC Technical Services (Changzhou) Co., Ltd.  
Commercial Consulting Technical Services

No.3, Hehai East Road, Tianning District, Changzhou, China 213021  
中国·常州·天宁区河海东路3号 邮编:213021

t (86-519) 8876 9607 www.sgs.com.cn  
t (86-519) 8876 9607 sgs.china@sgs.com

# TEST REPORT

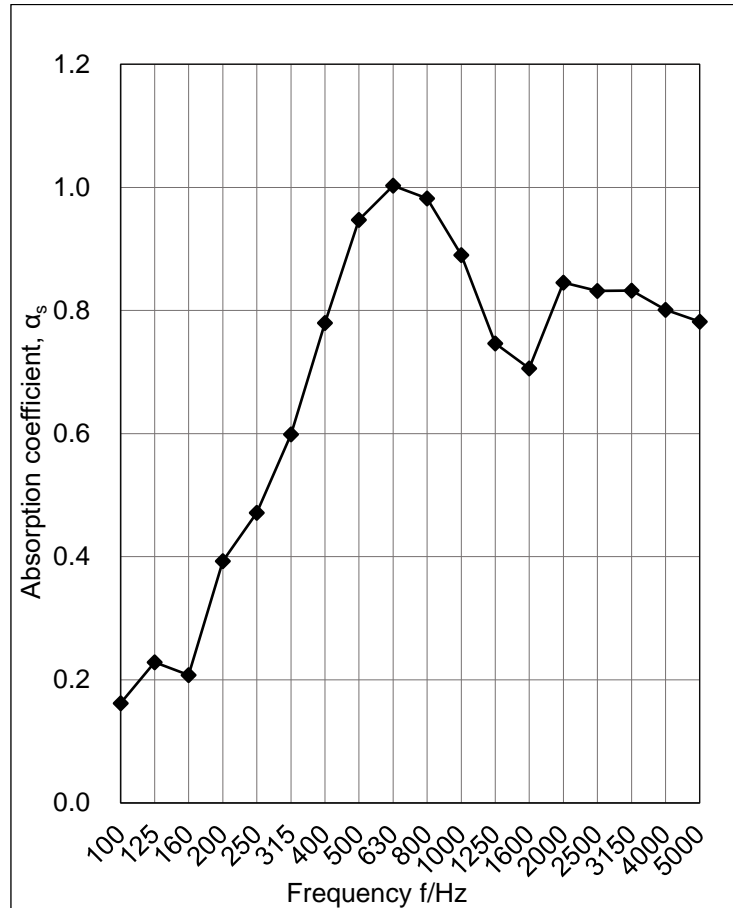
No. : CZIN2303000023CM-01

Date: Mar 27, 2023

Page: 4 of 6

## IV. Test Result

Frequency, Hz	Absorption Coefficient, $\alpha_s$
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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
**Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

SGS-CSTC Technical Services (Changzhou) Co., Ltd.  
Commercial Consulting Technical Services

No.3, Hehai East Road, Tianning District, Changzhou, China 213021  
中国·常州·天宁区河海东路3号 邮编:213021

t (86-519) 8876 9607 www.sgs.com.cn  
t (86-519) 8876 9607 sgs.china@sgs.com

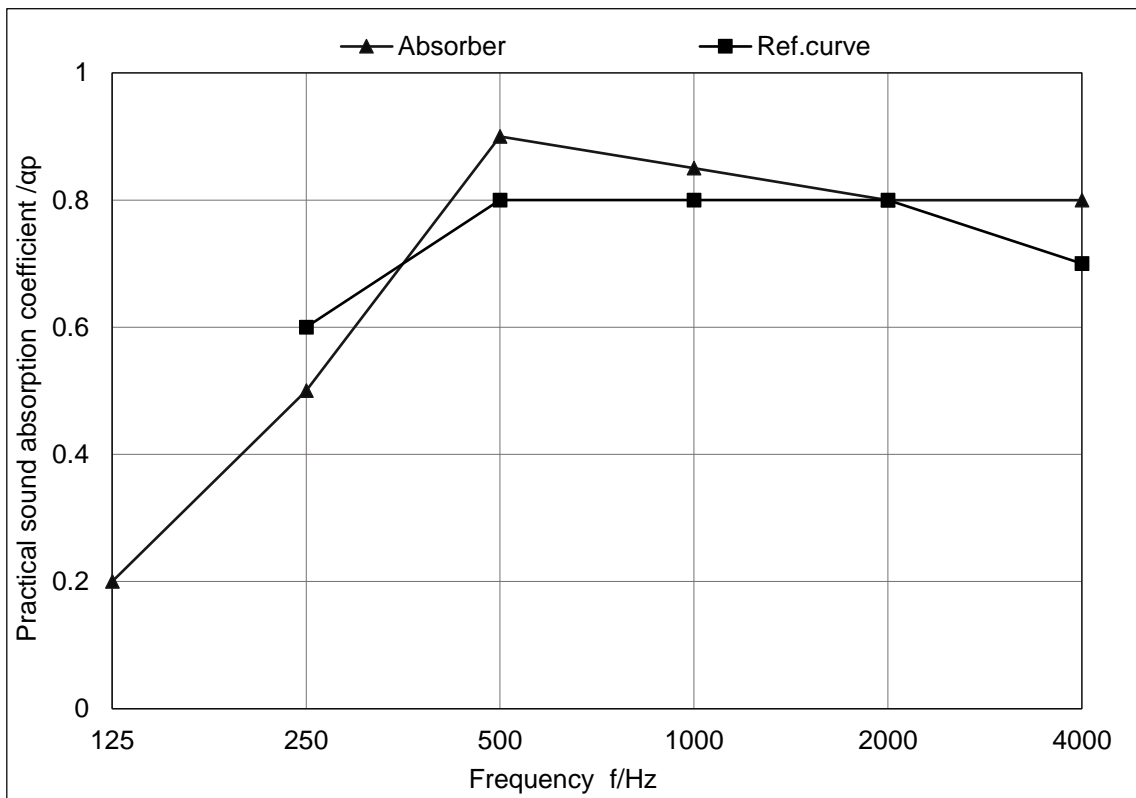
# TEST REPORT

No. : CZIN2303000023CM-01

Date: Mar 27, 2023

Page: 5 of 6

Frequency/Hz	Reference curve	Practical sound absorption coefficient, $\alpha_p$	Weighted sound absorption coefficient, $\alpha_w$	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		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
**Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

SGS-CSTC Technical Services (Changzhou) Co., Ltd.  
Commercial Consulting Technical Services

No.3, Hehai East Road, Tianning District, Changzhou, China 213021  
中国·常州·天宁区河海东路3号 邮编:213021

t (86-519) 8876 9607 www.sgsgroup.com.cn  
t (86-519) 8876 9607 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

# 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:  $\alpha_w=0.80$

Sound absorption classes: Class B

Note:

1. According to EN ISO 11654:1997, Sound absorption classes is five: Class A  $\alpha_w=0.90;0.95;1.00$   
Class B  $\alpha_w=0.80;0.85$  Class C  $\alpha_w=0.60;0.65;0.70;0.75$  Class D  $\alpha_w=0.30;0.35;0.40;0.45;0.50;0.55$   
Class E  $\alpha_w=0.15;0.20;0.25$  Not classified  $\alpha_w=0.00;0.05;0.10$
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\*\*\*\*\*



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Technical Services (Changzhou) Co., Ltd.  
Commercial Consistency Technical Services

No.3, Hehai East Road, Tianning District, Changzhou, China 213021  
中国·常州·天宁区河海东路3号 邮编:213021

t (86-519) 8876 9607 www.sgs.com.cn  
t (86-519) 8876 9607 sgs.china@sgs.com

Member of the SGS Group (SGS SA)