

## TEST REPORT

No. : CZIN2308000064CM01-1\_EN

Date : 2023-11-01

Page: 1 of 7

**Ter Huerne Gmbh U.Co. Kg**

RAMSDORFER STR. 5 46354 SUDLOHN GERMANY

This Report supersedes the Report No. CZIN2308000064CM01\_EN dated: Sep 06, 2023 issued by SGS, original report will be invalid from today

Sample Name : WOODEN SLAT ACOUSTIC PANEL

Product Specification : 2600\*526\*21.5mm

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. : CZHL2308005884HI

Date of Receipt : 2023-08-21

Testing Period : 2023-08-21 ~ 2023-09-04

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..



Tiffany Liu

Authorized signatory



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

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

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



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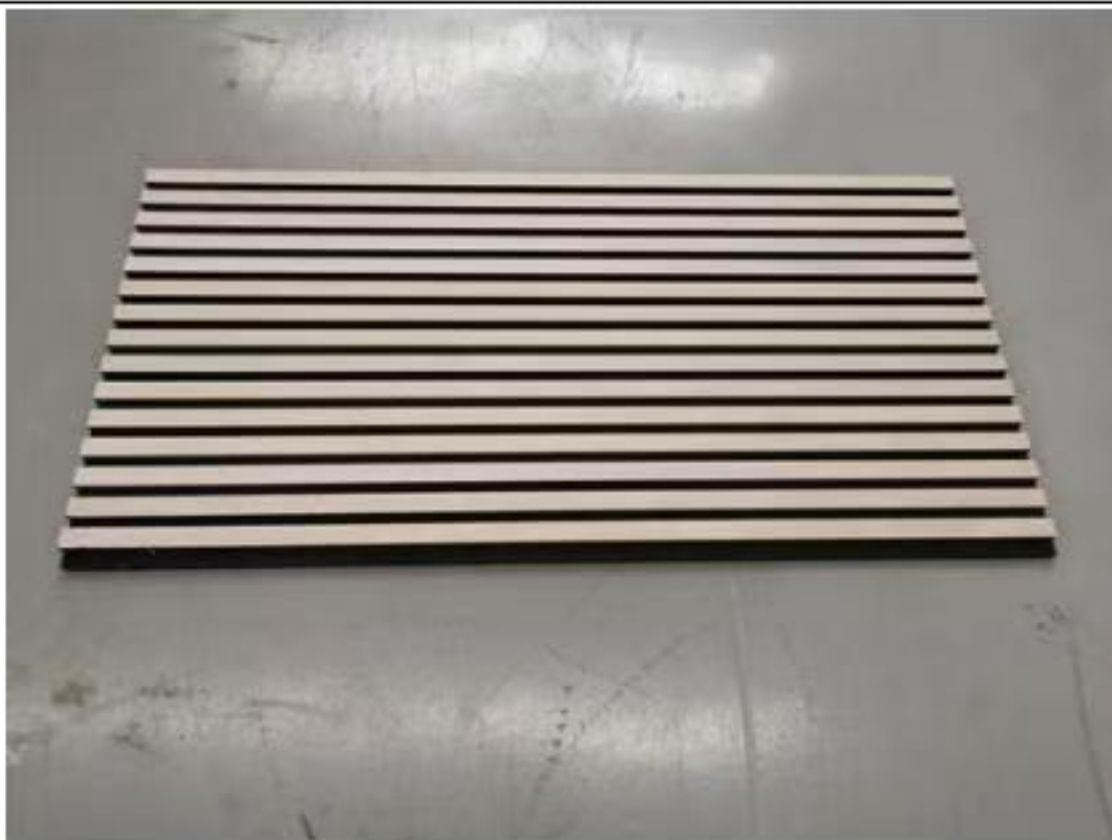
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### Summary of Results:

| No. | Test Item                    | Test Method                                           | Result     | Conclusion |
|-----|------------------------------|-------------------------------------------------------|------------|------------|
| 1   | Sound Absorption Coefficient | EN 15102:2007+A1:2011<br>Clause 4.4 & 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):

|                                                                                      |                                                                                       |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |
| Front View                                                                           | Back View                                                                             |



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SGS-CSTC (Shanghai Commercial Testing and Certification Co., Ltd.)  
Commercial Consulting and Technical Services (Changzhou) Co., Ltd.

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  
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Test Item: Sound Absorption Coefficient

## I. Test Method

EN 15102:2007+A1:2011 Decorative Wallcoverings - Roll Form, Clause 4.4 - Sound Absorption

EN ISO 354:2003 Acoustics – Measurement of Sound Absorption in a Reverberation Room

## II. Sample Details

|                 |                             |
|-----------------|-----------------------------|
| Dimensions      | 1200mm × 600mm × 21.5mm     |
| Surface Density | About 7.96kg/m <sup>2</sup> |

## III. Test Condition

|                                 |                                                                                                                                                           |                   |                                      |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------|
| Ambient Temperature             | 27.3℃                                                                                                                                                     | Relative Humidity | 75.6%RH                              |
| Volume Reverberation Room       | 260m <sup>3</sup>                                                                                                                                         | Test Area         | 10.98m <sup>2</sup><br>(3.66m×3.00m) |
| Description of Test Arrangement | The installation of samples refers to type E mounting.<br>The samples are installed in the reverberation room, use baffle to enclosure, 40mm back cavity. |                   |                                      |



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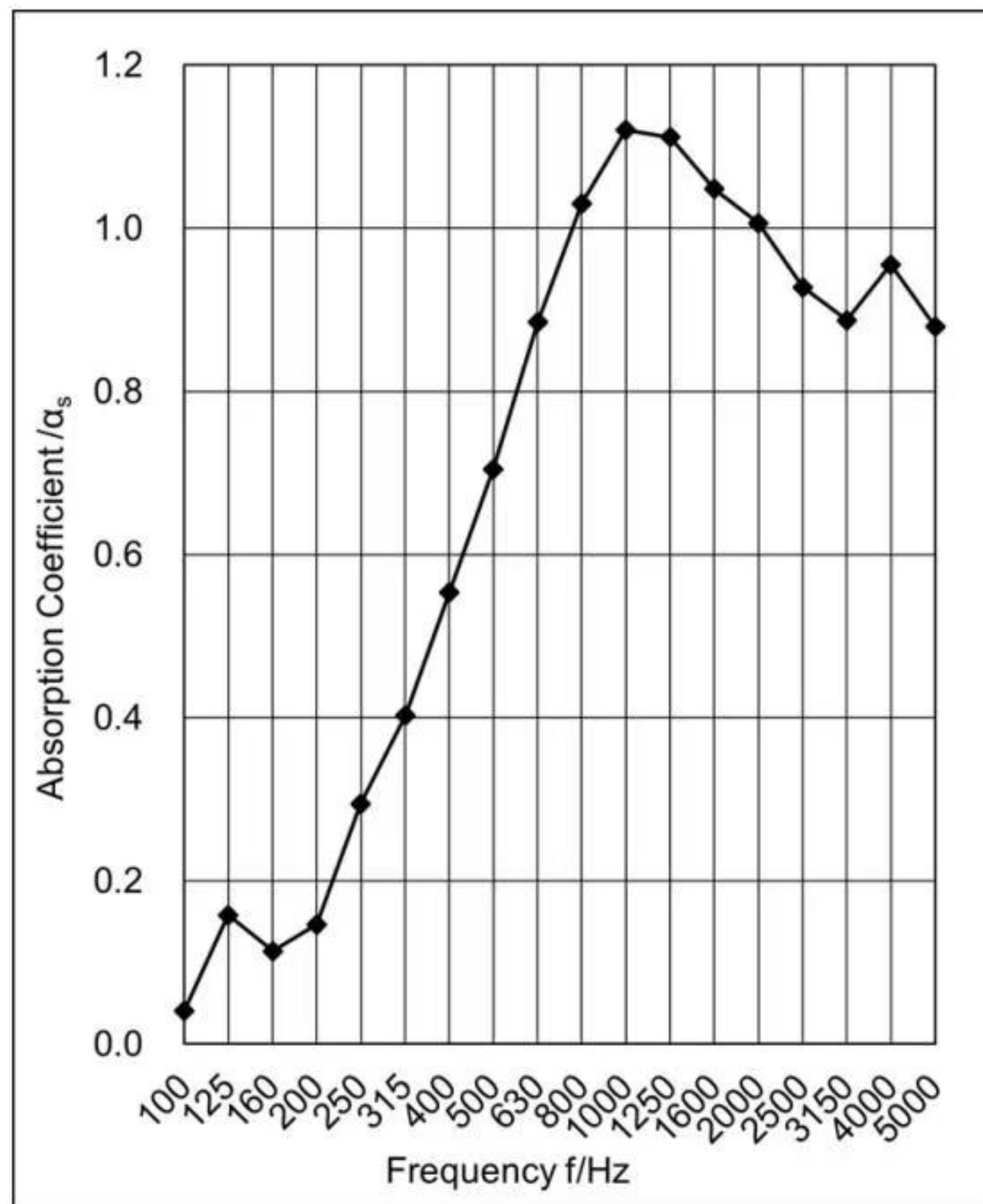
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### IV. Test Result

| Frequency<br>Hz  | Absorption<br>Coefficient, $\alpha_s$ |
|------------------|---------------------------------------|
| 100              | 0.04                                  |
| 125              | 0.16                                  |
| 160              | 0.11                                  |
| 200              | 0.15                                  |
| 250              | 0.29                                  |
| 315              | 0.40                                  |
| 400              | 0.55                                  |
| 500              | 0.70                                  |
| 630              | 0.89                                  |
| 800              | 1.03                                  |
| 1000             | 1.12                                  |
| 1250             | 1.11                                  |
| 1600             | 1.05                                  |
| 2000             | 1.01                                  |
| 2500             | 0.93                                  |
| 3150             | 0.89                                  |
| 4000             | 0.96                                  |
| 5000             | 0.88                                  |
| $\bar{\alpha}_s$ | 0.68                                  |
| NRC              | 0.80                                  |



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Commercial Consignment Technical Services (Company)

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



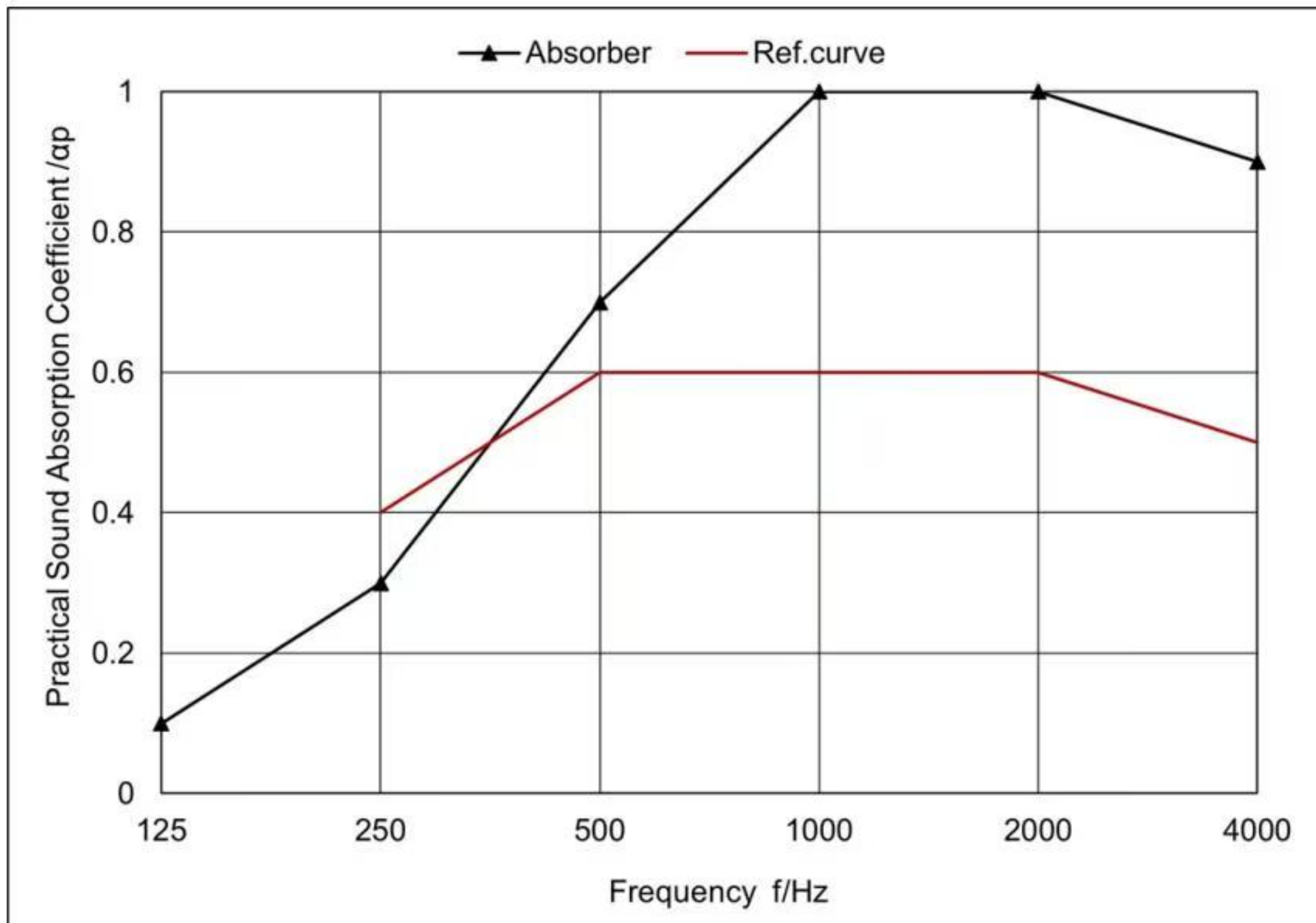
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| Frequency<br>Hz | Reference<br>Curve | Practical Sound<br>Absorption Coefficient,<br>$\alpha_p$ | Weighted Sound<br>Absorption Coefficient,<br>$\alpha_w$ | Sound<br>Absorption<br>Classes |
|-----------------|--------------------|----------------------------------------------------------|---------------------------------------------------------|--------------------------------|
| 125             | -                  | 0.10                                                     | 0.60(MH)                                                | Class C                        |
| 250             | 0.40               | 0.30                                                     |                                                         |                                |
| 500             | 0.60               | 0.70                                                     |                                                         |                                |
| 1000            | 0.60               | 1.00                                                     |                                                         |                                |
| 2000            | 0.60               | 1.00                                                     |                                                         |                                |
| 4000            | 0.50               | 0.90                                                     |                                                         |                                |



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### 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:  $\alpha_w$ =0.60(MH)

Sound absorption classes: Class C

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.
4. It is strongly recommended to use this single-number rating in combination with the complete sound absorption coefficient curve that can be obtained on request.



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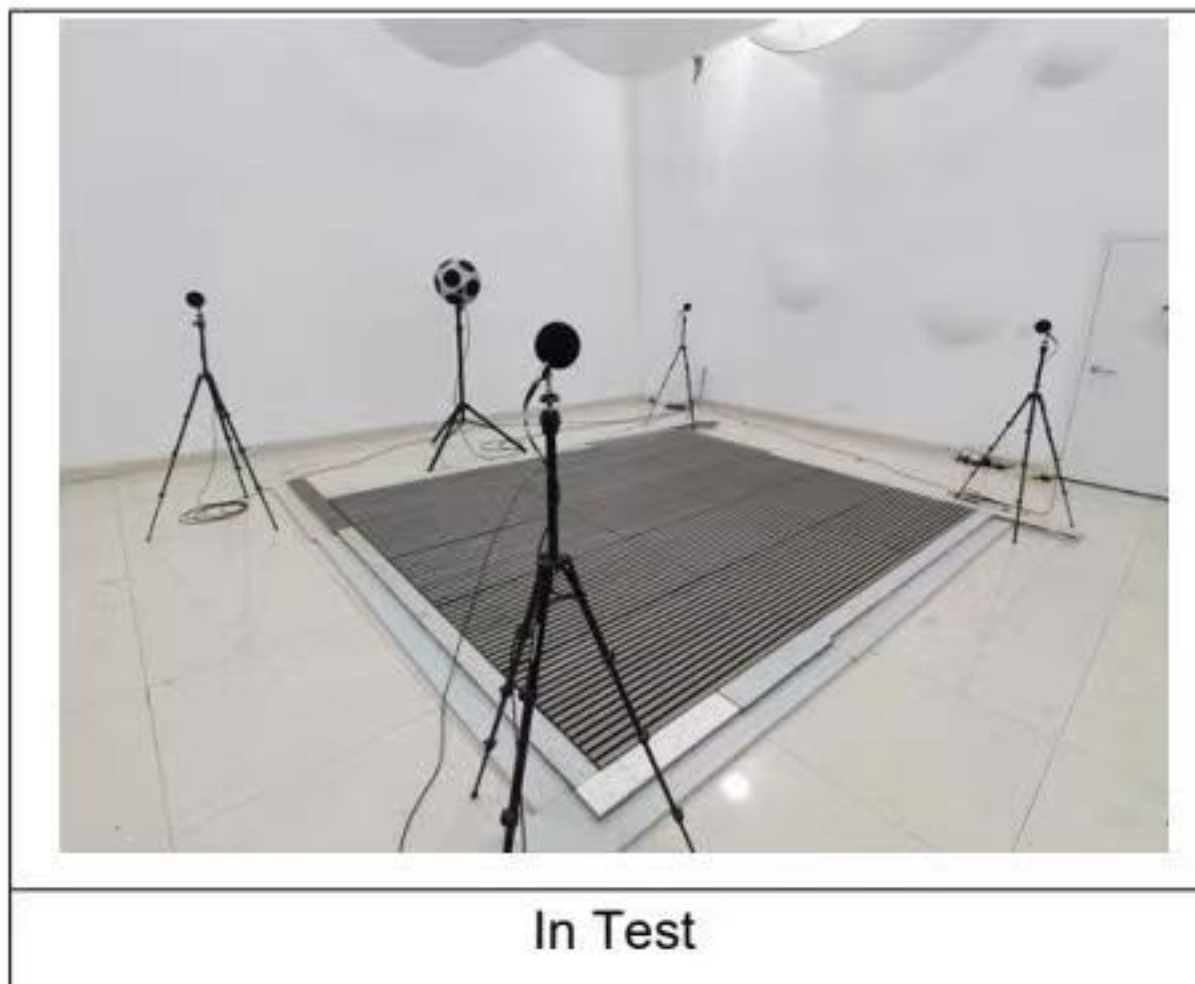
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### VI. Test Photo(s):



Note: Report CZIN2308000064CM01\_EN changed to CZIN2308000064CM01-1\_EN, modify the test method and remove the CNAS logo.

| Revise Content | Before Change                                 | After Change                                          |
|----------------|-----------------------------------------------|-------------------------------------------------------|
| Test Method    | EN 15102:2019 Clause 4.7 &<br>EN ISO 354:2003 | EN 15102:2007+A1:2011<br>Clause 4.4 & EN ISO 354:2003 |

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



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