

TEST REPORT

No. : CZIN2408000157CM01_EN

Date : 2024-08-29

Page: 1 of 7

Ter Huerne Gmbh U.Co. Kg

RAMSDORFER STR. 5 46354 SUDLOHN GERMANY

Sample Name : WOODEN SLAT ACOUSTIC PANEL

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. : TJHL2407006586HI

Date of Receipt : 2024-08-19

Testing Period : 2024-08-19 ~ 2024-08-29

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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Page: 2 of 7

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Sound Absorption Coefficient	EN 15102:2007+A1:2011 Clause 4.4 & EN ISO 354:2003	See Result	Pass

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

Original Sample Photo(s):

	
Front View	Back View





TEST REPORT

No. : CZIN2408000157CM01_EN
Date : 2024-08-29
Page: 3 of 7

Test Item: Sound Absorption Coefficient

I. Test Method

EN 15102:2007+A1:2011 Decorative wall coverings - Roll and panel form, Clause 4.4 - Sound Absorption
EN ISO 354:2003 Acoustics - Measurement of sound absorption in a reverberation room

II. Sample Details

Dimensions	3000mm × 520mm × 21.5mm
Surface Density	About 7.81 kg/m ²

III. Test Condition

Ambient Temperature	29.8°C	Ambient Humidity	75.7%RH
Volume Reverberation Room	260m ³	Test Area	10.94m ² (3.64m×3.00m)
Description of Test Arrangement	The installation of samples refers to type E mounting. The samples are installed in the reverberation room, covered with a 3.0mm thick steel plate around the perimeter edges,100mm back cavity.		



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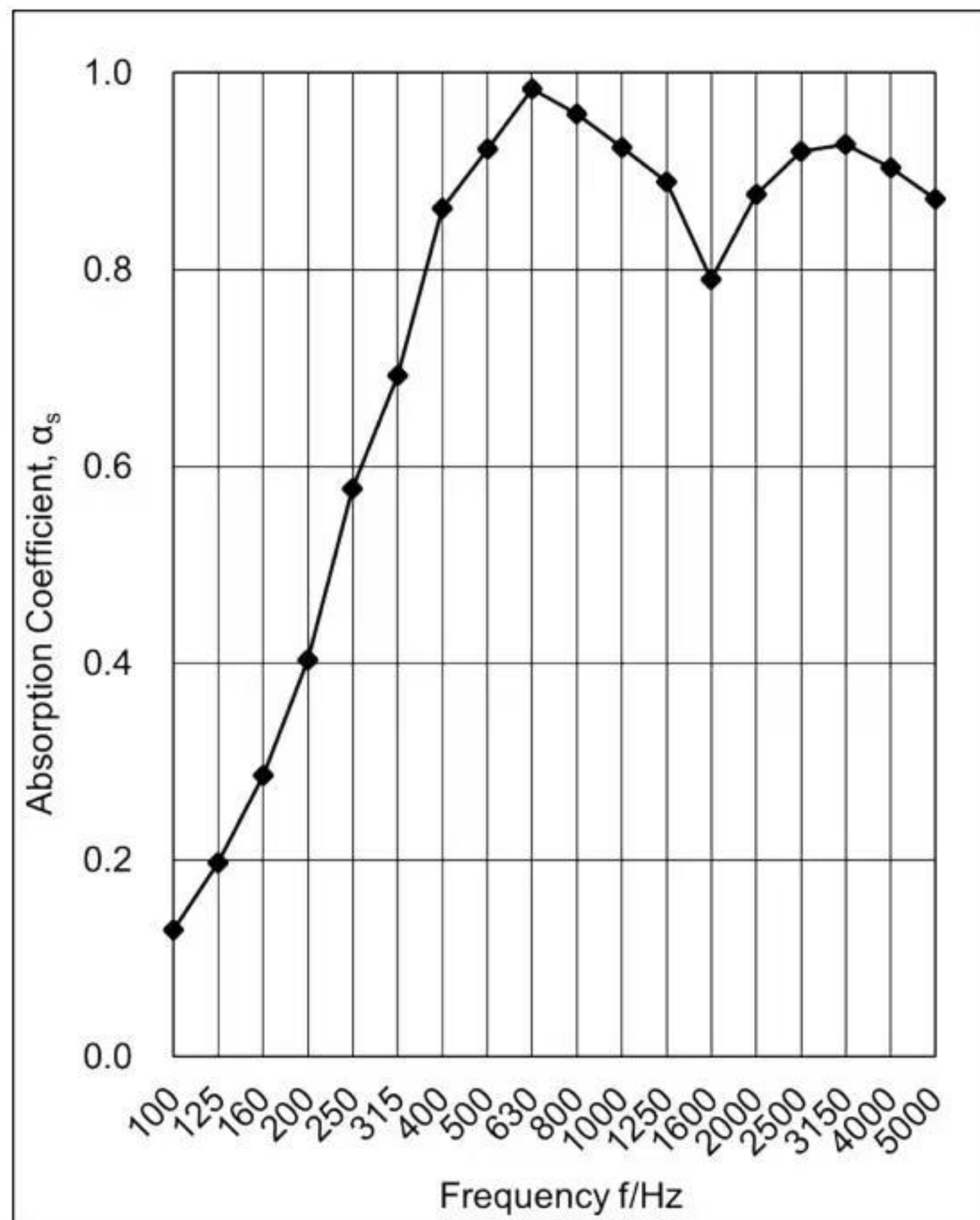
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Page: 4 of 7

IV. Test Result

Frequency f/Hz	Absorption Coefficient, α_s
100	0.13
125	0.20
160	0.29
200	0.40
250	0.58
315	0.69
400	0.86
500	0.92
630	0.98
800	0.96
1000	0.92
1250	0.89
1600	0.79
2000	0.88
2500	0.92
3150	0.93
4000	0.90
5000	0.87
$\bar{\alpha}_s$	0.73
NRC	0.85



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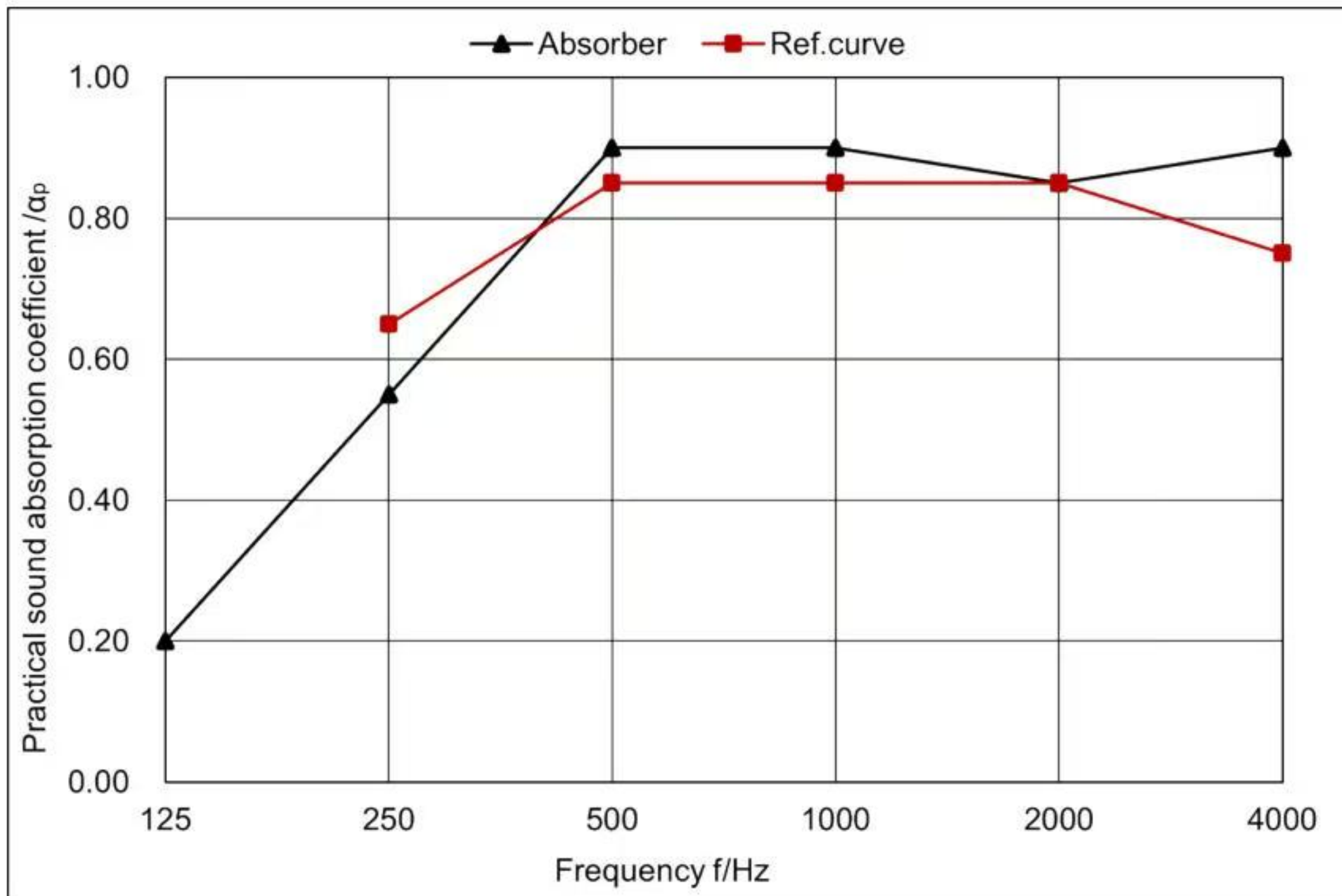
TEST REPORT

No. : CZIN2408000157CM01_EN

Date : 2024-08-29

Page: 5 of 7

Frequency Hz	Reference Curve	Practical Sound Absorption Coefficient, α_p	Weighted Sound Absorption Coefficient, α_w	Sound Absorption Class
125	-	0.20	0.85	Class B
250	0.65	0.55		
500	0.85	0.90		
1000	0.85	0.90		
2000	0.85	0.85		
4000	0.75	0.90		



TEST REPORT

No. : CZIN2408000157CM01_EN

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Page: 6 of 7

V. Weighted Sound Absorption Coefficient

Calculated according to EN ISO 11654:1997:

Average Absorption Coefficient $\bar{\alpha}_s$ (100Hz~5000Hz): 0.73

Noise Reduction Coefficient: NRC=0.85

Weighted sound absorption coefficient: α_w =0.85

Sound absorption class: Class B

Client's Requirement: Sound Absorption Class B

Conclusion: Pass

Note:

1. According to EN ISO 11654:1997, Sound absorption classes is five:

Class A α_w =0.90;0.95;1.00Class B α_w =0.80;0.85Class C α_w =0.60;0.65;0.70;0.75Class D α_w =0.30;0.35;0.40;0.45;0.50;0.55Class E α_w =0.15;0.20;0.25Not 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.



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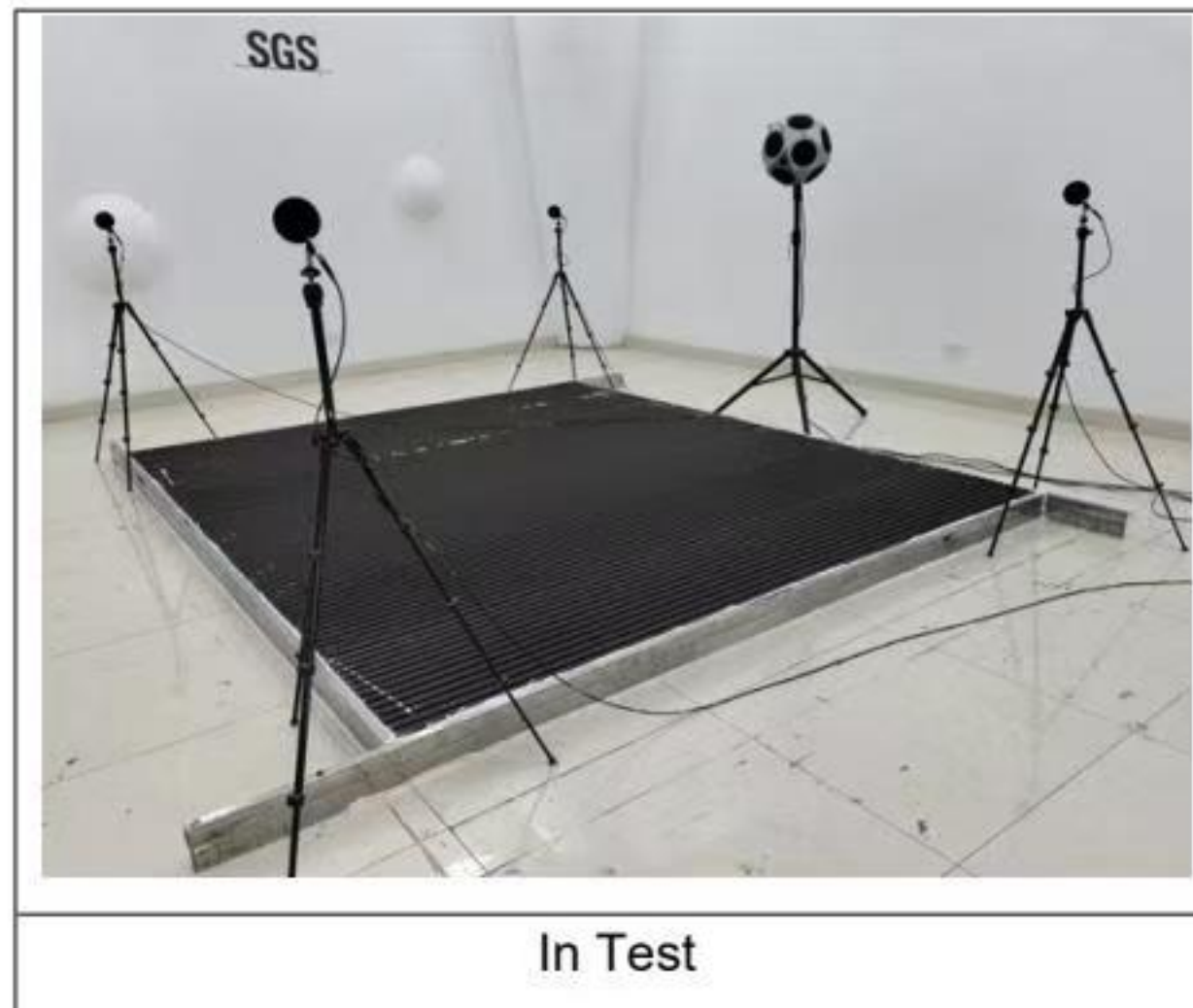
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Page: 7 of 7

VI. Test Photo(s):



The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

Unless otherwise stated, this report provides a declaration of conformity according to whether the test results are within the specified limits or specifications without considering the measurement uncertainty.

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



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