



中国认可
国际互认
检测
TESTING
CNAS L22467

Test Report

Client: Guangzhou Hui Acoustics New Building Materials Co., Ltd.

Test category: Entrusted test

Sample name: Suspended Acoustic Absorber

Sample model: 1200*600*50mm

Report number: SS260904001E

Report date: September 4, 2026



Guangdong Gujian Testing Co., Ltd.





Declaration

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2. This report is invalid without the official seal of our unit or the "Special Seal for Inspection and Testing".
3. This report is invalid without the signature of the testing, reviewing, and approving personnel, and is invalid if altered.
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8. The "principal" and "contact information of the principal" are provided by the principal. The "manufacturer", "model and specification", "factory number", and "equipment number" are marked on the instrument. If the principal has any objections to the above content, they must raise them within 20 working days after receiving the report.

Communication information of this institution:

Company: Guangdong Gujian Testing Co., Ltd.

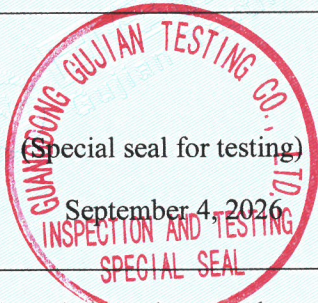
Address: No. 81 Fenghe East Road, Renhe Town, Baiyun District, Guangzhou City

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Test Report

Sample name	Suspended Acoustic Absorber	Sample model	1200*600*50mm
Sample number	WTD260827001-01	Trademark	Huisheng
Test category	Entrusted test	Sample quantity	15 pieces (1200×600×50) mm
Sample delivery date	August 28, 2026	Test date	September 1, 2026
Client	Guangzhou Hui Acoustics New Building Materials Co., Ltd.		
Client address	Building 1.No. 610, Changan Street,Guangcong 10 Road, Baiyun District,Guangzhou City.		
Manufacturer	Guangzhou Benyin Acoustic New Materials Co., Ltd.		
Manufacturer address	Building 1.No. 610, Changan Street,Guangcong 10 Road, Baiyun District,Guangzhou City.		
Test items	Sound absorption coefficient		
Testing basis	GB/T 20247-2006/ISO 354-2003 "Acoustics-Measurement of sound absorption in a reverberation room" Refer to GB/T 16731-2023 "Classification of sound absorption property for absorbent products using in buildings"		
Test conclusion	See the test results. 		
Note	The structure and placement of the samples are all carried out in accordance with the requirements of the customers.		

Tested by:

Checked by:

Approved by:



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Anti-counterfeiting
query code



Test Report

1. Environmental conditions:

- Volume of reverberation room: 219 m³.
- Before testing: temperature 29.5 °C, relative humidity 75.5 %.
- After testing: temperature 29.9 °C, relative humidity 76.5 %.

2. Sample description:

- The specimen is a Suspended Acoustic Absorber, with a single piece size of 1200 mm × 600 mm and a thickness of 50 mm. The outer frame of this Suspended Acoustic Absorber is an aluminum alloy frame, the surface layer is an aluminum strip gap sound absorption board, and it is internally equipped with 50 mm thick sound-absorbing cotton with a density of 48 kg/m³, which is covered with glass fiber cloth on the outside.
- During testing, the specimens were assembled into a component measuring 3600 mm in length, 3000 mm in width, and 150 mm in height (installation type E-100). The component structure is shown in Figure 2.1, with the edges sealed using gypsum board. The component area is 10.8 m².

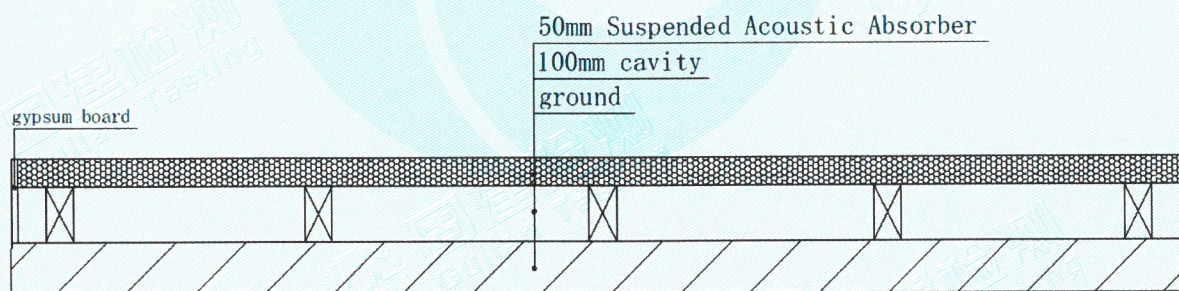


Figure 2.1 Schematic diagram of installation structure



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3. Test results

Sample name/Sample model	Suspended Acoustic Absorber / 1200*600*50mm		
Installation method	The installation dimensions are 3600 mm in length, 3000 mm in width, and 150 mm in height The installation type is E-100, consisting of a 50 mm Suspended Acoustic Absorber and a 100 mm rear cavity, The component area is 10.8 m ² .		
Test results			
Frequency(Hz)	Sound absorption coefficient α_s	Frequency(Hz)	Sound absorption coefficient α_s
100	0.25	800	0.97
125	0.23	1000	0.98
160	0.55	1250	0.97
200	0.76	1600	0.98
250	0.82	2000	0.94
315	1.04	2500	0.95
400	1.01	3150	0.92
500	0.97	4000	0.91
630	0.93	5000	0.88
NRC		0.95	
Line chart of sound absorption coefficient Sound absorption coefficient α_s Frequency (Hz) —●— Sound absorption coefficient			



Test Report

4. Classification of sound absorption property for absorbent products using in buildings

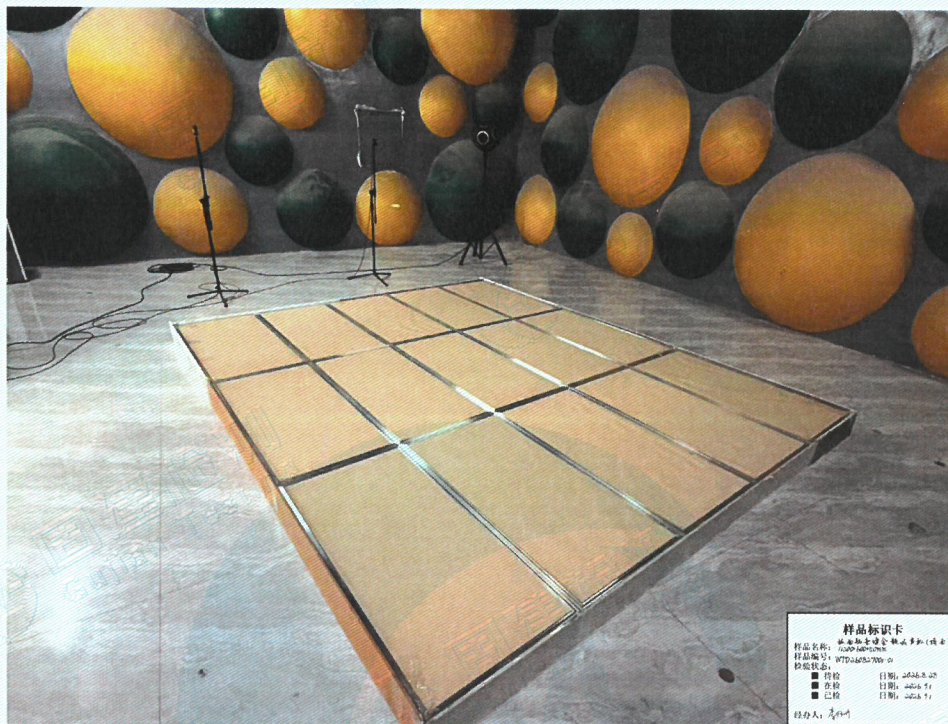
According to the national standard GB/T 16731-2023 "The gradation of sound absorption property for absorbent products", the noise reduction coefficient (NRC) is used as the single value evaluation quantity for the sound absorption performance of absorbent products, and the upper and lower limits of the noise reduction coefficient (NRC) are classified. The upper and lower limits of the NRC for each level are shown in the table below:

Level	Range
I	$\text{NRC} \geq 0.80$
II	$0.80 > \text{NRC} \geq 0.60$
III	$0.60 > \text{NRC} \geq 0.40$
IV	$0.40 > \text{NRC} \geq 0.20$



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5. Images of testing



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