



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: Fiberglass Acoustic Ceiling Panel

Sample model: 1200*600*15mm

Report number: SS260904003E

Report date: September 4, 2026



Guangdong Gujian Testing Co., Ltd.





Declaration

1. Our company guarantees the scientificity, impartiality, and accuracy of the testing, takes technical responsibility for the testing data, and keeps confidential the samples and technical information provided by the commissioning unit.
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.
4. If the commissioning party sends samples for testing on its own, the testing results are only responsible for the incoming samples.
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7. If you have any questions about this report, please contact our company in a timely manner. Please indicate the report number when writing or calling. If you have any objections to the test results, please submit a retest application to our company within fifteen working days from the date of receiving this report. For samples with unstable performance, re inspection is not accepted.
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.

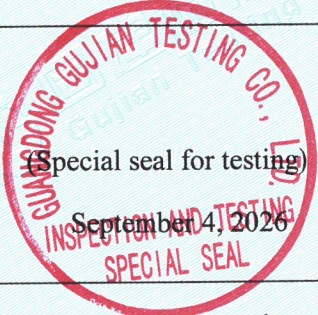
Address: No. 81 Fenghe East Road, Renhe Town, Baiyun District, Guangzhou City

Telephone: 020-37416331

Email: gj@gdgujc.com



Test Report

Sample name	Fiberglass Acoustic Ceiling Panel	Sample model	1200*600*15mm
Sample number	WTD260625002-01	Trademark	Huisheng
Test category	Entrusted test	Sample quantity	15 pieces (1200×600×15) mm
Sample delivery date	August 28, 2026	Test date	September 2, 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:



52ayppbfxm4j

Anti-counterfeiting

query code



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1. Environmental conditions:

- Volume of reverberation room: 219 m³.
- Before testing: temperature 29.2 °C, relative humidity 69.1 %.
- After testing: temperature 29.1 °C, relative humidity 69.6 %.

2. Sample description:

- The specimen is a Fiberglass Acoustic Ceiling Panel. The size of a single panel is 1200 mm × 600 mm, and its thickness is 15 mm. The surface layer of this Fiberglass Acoustic Ceiling Panel is a white sound-absorbing fabric, and it is followed by 15 mm thick sound-absorbing cotton with a density of approximately 90 kg/m³.
- During testing, the specimens were assembled into a component measuring 3600 mm in length, 3000 mm in width, and 415 mm in height (installation type E-400). The component structure is shown in Figure 2.1, with the edges sealed using gypsum board. The component area is 10.8 m².

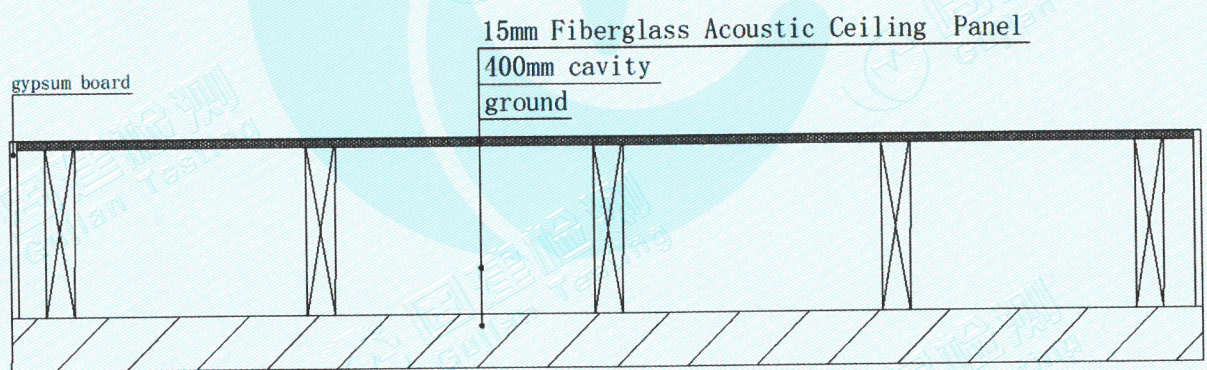


Figure 2.1 Schematic diagram of installation structure



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3. Test results

Sample name/Sample model	Fiberglass Acoustic Ceiling Panel / 1200*600*15mm																																								
Installation method	The installation dimensions are 3600 mm in length, 3000 mm in width, and 415 mm in height The installation type is E-400, consisting of a 15 mm Fiberglass Acoustic Ceiling Panel and a 400 mm rear cavity, The component area is 10.8 m².																																								
Test results																																									
Frequency(Hz)	Sound absorption coefficient α_s	Frequency(Hz)	Sound absorption coefficient α_s																																						
100	0.18	800	0.76																																						
125	0.25	1000	0.68																																						
160	0.42	1250	0.59																																						
200	0.37	1600	0.61																																						
250	0.37	2000	0.52																																						
315	0.38	2500	0.45																																						
400	0.42	3150	0.38																																						
500	0.52	4000	0.30																																						
630	0.67	5000	0.24																																						
NRC		0.55																																							
Line chart of sound absorption coefficient <table><caption>Data points for the line chart</caption><tr><th>Frequency (Hz)</th><th>Sound absorption coefficient α_s</th></tr><tr><td>100</td><td>0.18</td></tr><tr><td>125</td><td>0.25</td></tr><tr><td>160</td><td>0.42</td></tr><tr><td>200</td><td>0.37</td></tr><tr><td>250</td><td>0.37</td></tr><tr><td>315</td><td>0.38</td></tr><tr><td>400</td><td>0.42</td></tr><tr><td>500</td><td>0.52</td></tr><tr><td>630</td><td>0.67</td></tr><tr><td>800</td><td>0.76</td></tr><tr><td>1000</td><td>0.68</td></tr><tr><td>1250</td><td>0.59</td></tr><tr><td>1600</td><td>0.61</td></tr><tr><td>2000</td><td>0.52</td></tr><tr><td>2500</td><td>0.45</td></tr><tr><td>3150</td><td>0.38</td></tr><tr><td>4000</td><td>0.30</td></tr><tr><td>5000</td><td>0.24</td></tr></table>				Frequency (Hz)	Sound absorption coefficient α_s	100	0.18	125	0.25	160	0.42	200	0.37	250	0.37	315	0.38	400	0.42	500	0.52	630	0.67	800	0.76	1000	0.68	1250	0.59	1600	0.61	2000	0.52	2500	0.45	3150	0.38	4000	0.30	5000	0.24
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4. Classification of sound absorption property for absorbent products using in buildings

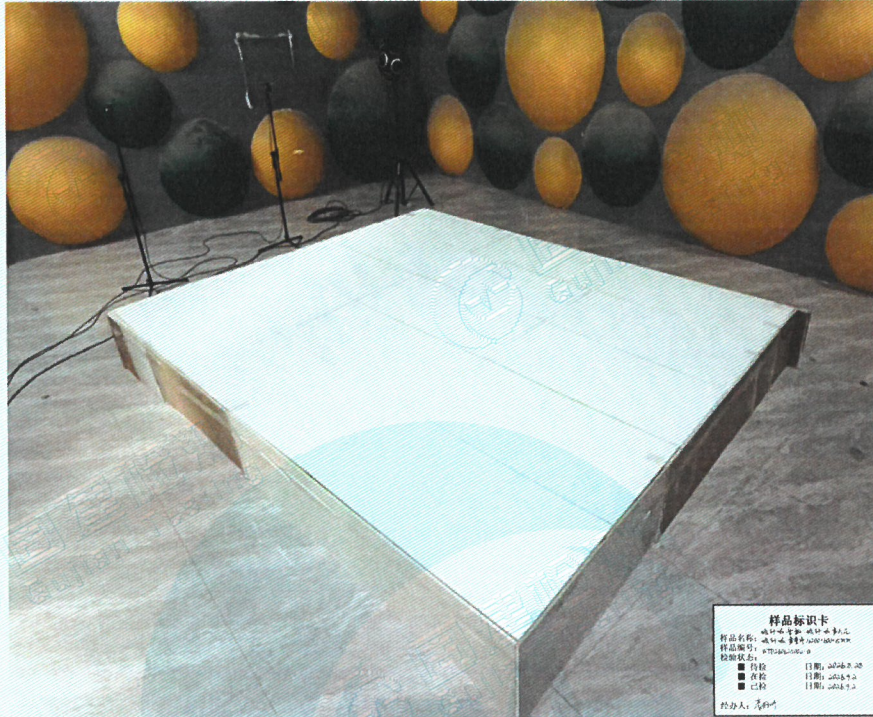
According to the national standard GB/T 16731-2023 "The gradation of sound absorption property for absorbent products", the noise reduction coefficient (NRC) is used as the single value evaluation quantity for the sound absorption performance of absorbent products, and the upper and lower limits of the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