





TEST REPORT

WQ No.21060097

Product	Fiberglass Acoustic Panel					
Client _	BEIYANG BUILDING MATERIAL CO., LTD.					
Test Type	Entrusted Testing					



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Client	BEIYANG BUILDING MATERIAL CO., LTD.	Address of client	Dongqing Garden Industrial Area, Zhenglu Town, Tianning District, Changzhou, Jiangsu, China			
Product	Fiberglass Acoustic Panel	Specification	Density: 100kg/m³, thickness: 15mm			
Trade mark	ceillex	Sample sender	Zhu Haibao			
Producer	BEIYANG BUILDING MATERIAL CO., LTD.	Date of production				
Inspections required	Sound absorption coefficient, weig	hted sound absorpti	on coefficient.			
Additional information	None.					
The above	e information is provided by the clien	at, the center is not r	esponsible for its truthfulness.			
Test type	Entrusted Testing	Date of sample received	2021-06-29			
Sample state	Hard plate products with black textile in one face					
Sample quantity	(600×600×15) mm, 30 pieces	Testing period	2021-06-29-2021-07-13			
Test standard	GB/T 20247-2006 Acoustics-Mea	surement of sound a	absorption in a reverberation room			
Testing	The sample has been tested an	d the results are deta	本即从里面是			
result	The test results only represent the te	echnical properties o	2021-07-13			
Remark						

Approved by: 古地下echnical Chief Checked by: 丁晴 Compiled by: 吴使裳



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Test items		Test items Test method		Test results		
	100 Hz		0.396	YYY		
	125 Hz		0.443			
	160 Hz		0.461			
	200 Hz		0.558			
	250 Hz		0.799			
	315 Hz		0.985			
	400 Hz		1.010			
Sound absorption coefficient	500 Hz		1.039			
	630 Hz		0.971			
	800 Hz	GB/T 20247-2006	0.907	Detailed in		
	1000 Hz	(Type E, 200 mm)	0.867	page3-6.		
	1250 Hz	SHOMORORO HORO HORO	0.965			
	1600 Hz	● 日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本	1.006			
	2000 Hz		0.980			
	2500 Hz		1.045			
	3150 Hz		1.035			
	4000 Hz		1.043			
	5000 Hz		1.079			
Noise reduction	Noise reduction coefficient NRC		0.90			
Weighted sou coefficient α _w	nd absorption		1.00			

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Details of sound absorption test in a reverberation room

1. Test method

GB/T 20247-2006 Acoustics—Measurement of sound absorption in a reverberation room.

2. Test equipment

Reverberation room: volume 218 m³, area 44 m².

B&K acoustic testing system.

3. Test environment

Temperature 20°C, relative humidity 62%, speed of sound 346.45m/s.

4. Specimen and mounting

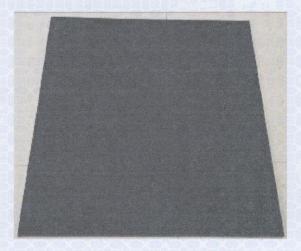
Name of the sample: fiberglass acoustic panel. The sample is hard plate products with black textile in one face.

Dimension of the sample: (600×600×15) mm, totally 30 pieces.

Mounting: Type E, 200 mm.

Test area: 10.46m².

The pictures of the sample and specimen after mounting are as follows.





Front

Back

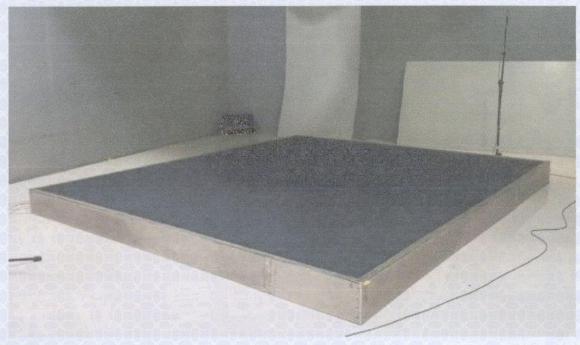
The photo of the sample

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Specimen after mounting

5. Test frequency range

One-third-octave bands with the following centre frequencies (Hz): 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000.

6. Test result

6.1 The reverberation time of the empty reverberation room.



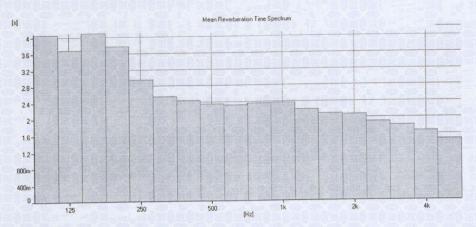
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6.2 The reverberation time of the reverberation room after the test specimen has been mounted.



6.3 Test results of sound absorption coefficient

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Frequency (Hz)	100	125	160	200	250	315	400	500	630
Sound absorption coefficient α_s	0.396	0.443	0.461	0.558	0.799	0.985	1.010	1.039	0.971
Frequency (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
Sound absorption coefficient α_s	0.907	0.867	0.965	1.006	0.980	1.045	1.035	1.043	1.079
Noise reduction coefficient	XX.				0.90			000	ÓÓ

6.4 Test result of weighted sound absorption coefficient α_w

Frequency (Hz)	Reference curve	Absorber		
125	0.00(=0.00)	0.45		
250	0.80	0.80		
500	1.00	1.00		
1000	1.00	0.90		
2000	1.00			
4000	0.90	1.05		
Weighted sound absorption coefficient α _w	1.00			

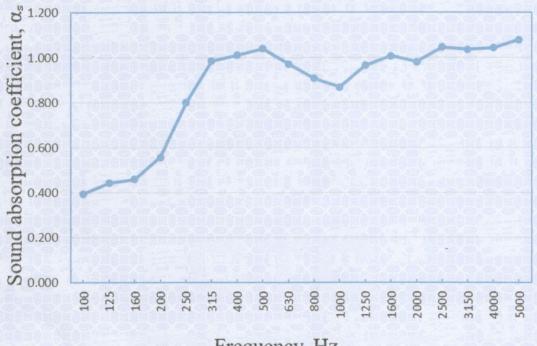
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6.5 Sound absorption coefficient- frequency curve



Frequency, Hz

6.6 Weighted sound absorption coefficient- frequency curve

