

同济大学声学研究所

测试报告

(本报告共 2 页)

测试项目: 纤维吸音装饰板

测试内容: 混响室法无规入射吸声系数

委托单位: 广州沁声建材有限公司

测试日期: 2017年4月27日

地址: 上海市四平路 1239 号

电话: 65982313 邮编: 200092



Institute of Acoustics, Tongji University
Test report

(This report consists of two pages)

Test Item: Polyester Fiber Acoustic Panel

Test Content: Reverberation Chamber Method Random Incidence Sound Absorption Coefficient

Entrusting Party: Guangzhou Qinsound Building Material Co.,Ltd

Test Date:2017-04-27

Address: No.1239,Siping Road, Shanghai City

Tel:65982313 Post Code:200092

混响室法无规入射吸声性能测量
根据 GB/T 20247-2006

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委托方:

测试日期: 2017年4月27日

测试设施、试件和测试安排描述:

被测材料为广州沁声建材有限公司的纤维吸音板, 厚度9mm, 板后面由木龙骨设置100mm空腔。

被测材料平铺安装于混响室地面中间部位。

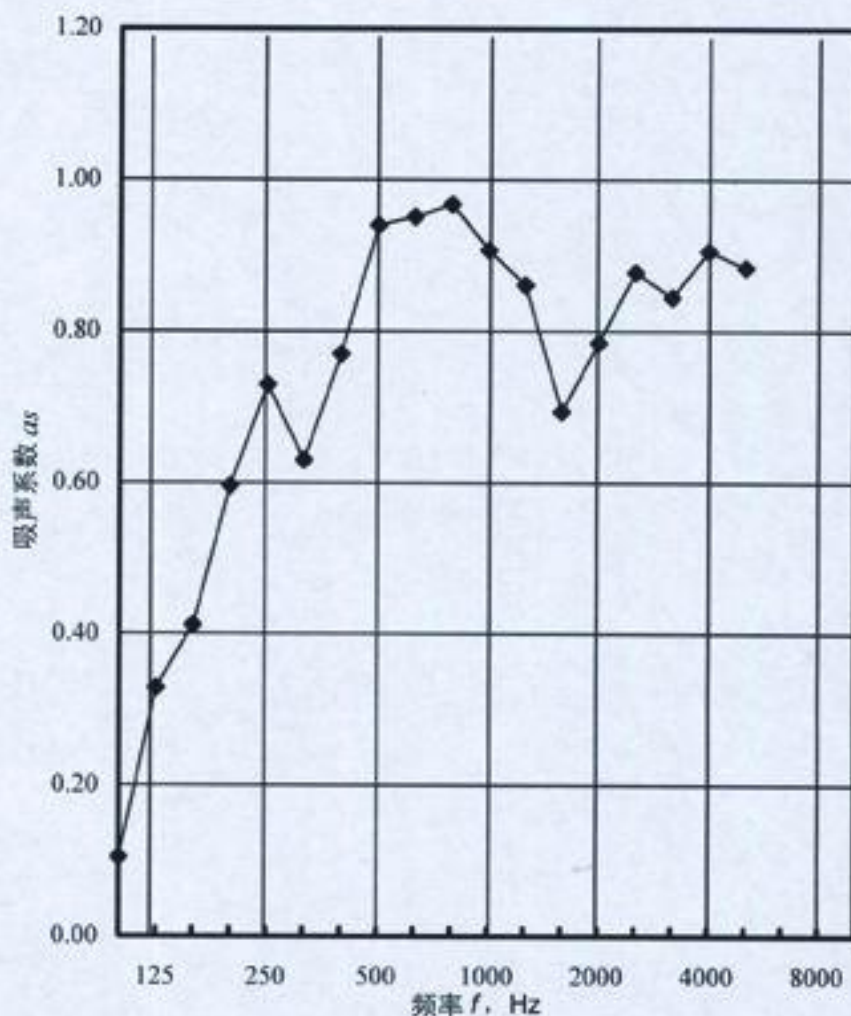
测试仪器: HP3569A 双通道实时分析仪, GRAS 42AB 校准器。

测试面积 (m^2): 11.52 密度: $220 \text{ Kg}/m^3$

混响室容积: 268 m^3

实验室温度: 8°C 实验室相对湿度: 53%

频率 f Hz	α_s (1/3 倍频程)
50	
63	
80	
100	0.10
125	0.33
160	0.41
200	0.60
250	0.73
315	0.63
400	0.77
500	0.94
630	0.95
800	0.97
1000	0.91
1250	0.86
1600	0.69
2000	0.78
2500	0.88
3150	0.84
4000	0.91
5000	0.88
6300	
8000	



单值评价指标:

降噪系数: $NRC=0.84$ 平均吸声系数(100Hz~4KHz): 0.72

测试报告编号: H0803

测试机构名称: 同济大学声学研究所

日期: 2017年4月27日

签名: 王东兴



**Measurement Of Sound Absorption Performance By Reverberation Chamber Method
With Random Incidence
According GB/T 20247-2006**

Entrusting Party:

Test facility, sample and test arrangement description:

The tested material is the polyester fiber acoustic panel of Guangzhou qinsound building material Co., Ltd, the thickness is 9mm, and the 100mm cavity is set up at the back of the panel by the wooden keel.

The tested material is tiled and installed in the middle of the reverberation chamber floor.

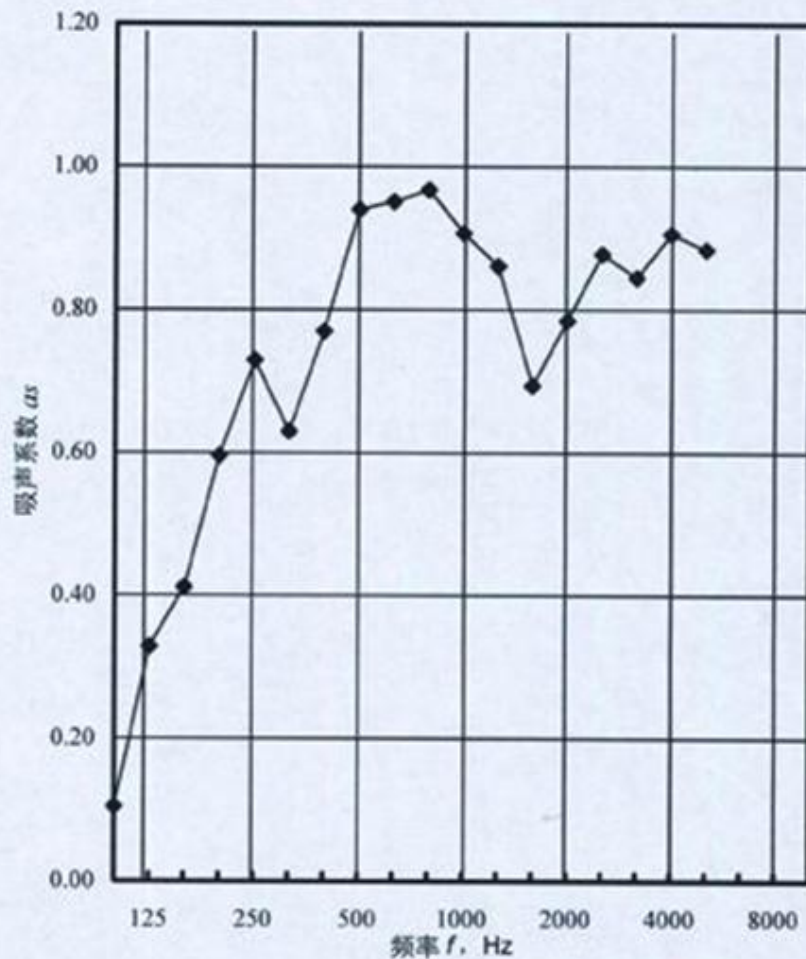
Test instruments:HP3569A Dual channel real-time analyzer,GRAS 42AB calibration unit.

Test area(m²) : 11.52 Density:220kg/m³

Reverberation chamber volume : 268m³ Laboratory temperature : 8°C

Laboratory relative humidity : 53%

频率 <i>f</i> Hz	α_s (1/3 倍频程)
50	
63	
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3150	0.84
4000	0.91
5000	0.88
6300	
8000	



Index Value Of Single-Valued Evaluation

Noise Reduction Coefficient: $NRC=0.84$

Average Sound Absorption Coefficient (100hz~4khz) :0.72

Test Report No.:H0803

Name Of Testing Organization: Institute Of Acoustics,
Tongji University

Date:2017-4-27

Sign: