



上海同济建设工程质量检测站

ShangHai TongJi Construction Quality Inspection Station

声学性能检验报告

Test report of Acoustic Performance

委托编号: SX07010

Application No

报告编号: SX07013 *

Report No.

委托单位 浙江大庄实业集团有限公司

Principal

Dasso Industrial Group Co., Ltd

检测项目 浙江大庄吸音板

Test Item

Dasso Acoustic Panel

检测内容 吸音性能

Test Content

Acoustic Performance

检测类别 送样

Test Category

Sample Presentation

报告正文面数 共 3 页

Number Of Page

3 Pages

检测单位 (盖章)

Testing Organization

二〇一〇年七月四日

July 4, 2010

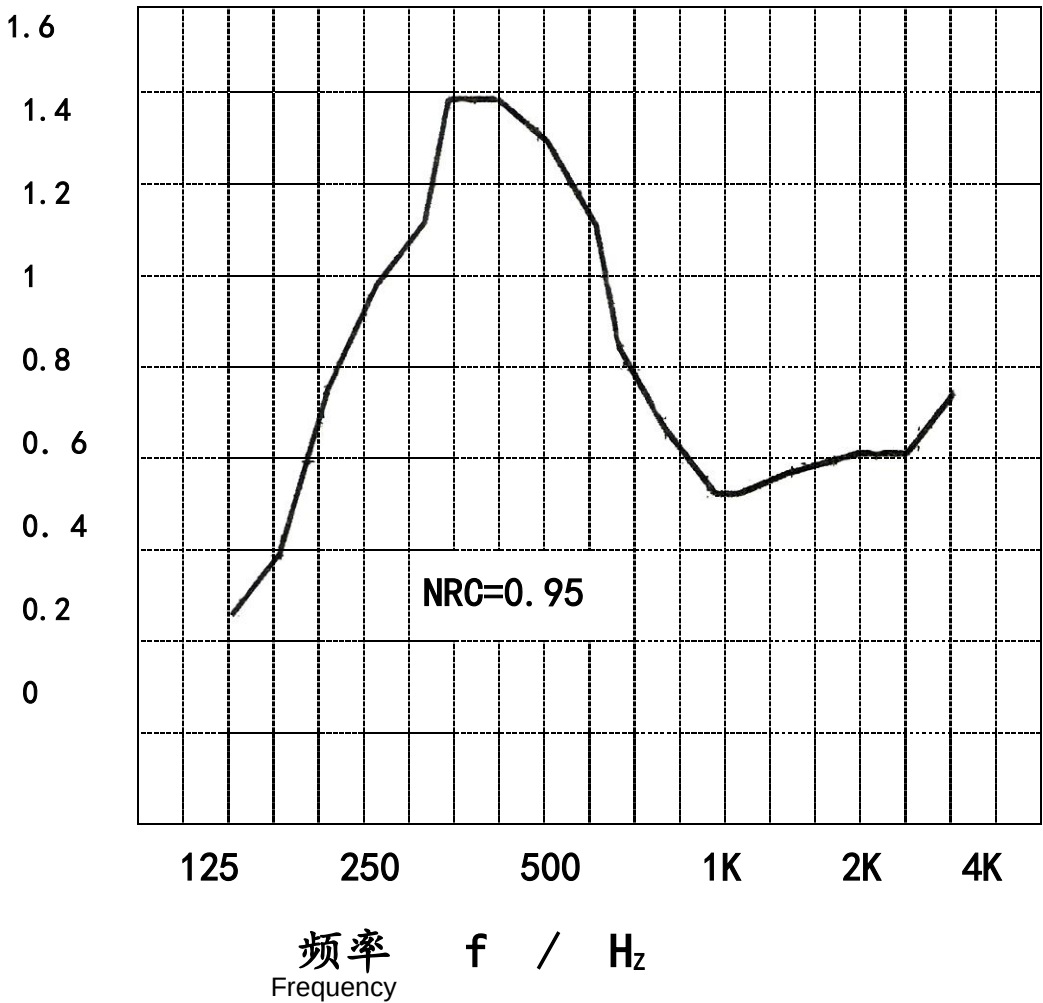


Specimen Arrangement:Dasso Acoustic Panel+ 100mm Air Layer(stuffed with 50mm of Rock Wool Board)
试件布置: 浙江大庄吸音板+100 mm空气层 (内填 50 mm岩棉板)。

检测数据及结果: Test Data And Results

Frequency	频率/Hz	100	125	160	200	250	315	400	500	630
Acoustic Absorptivity	吸声系数 α_R	0.27	0.45	0.85	1.16	1.25	1.34	1.34	1.20	1.07
Frequency	频率/Hz	800	1000	1250	1600	2000	2500	3150	4000	5000
Acoustic Absorptivity	吸声系数 α_R	0.85	0.71	0.67	0.67	0.58	0.58	0.62	0.67	0.80

NRC=0.95



检测: 朱芳英, 钱慧敏
Inspectors

审核: 钟祥琼
Examine and Verify

批准: 王孝
Approval

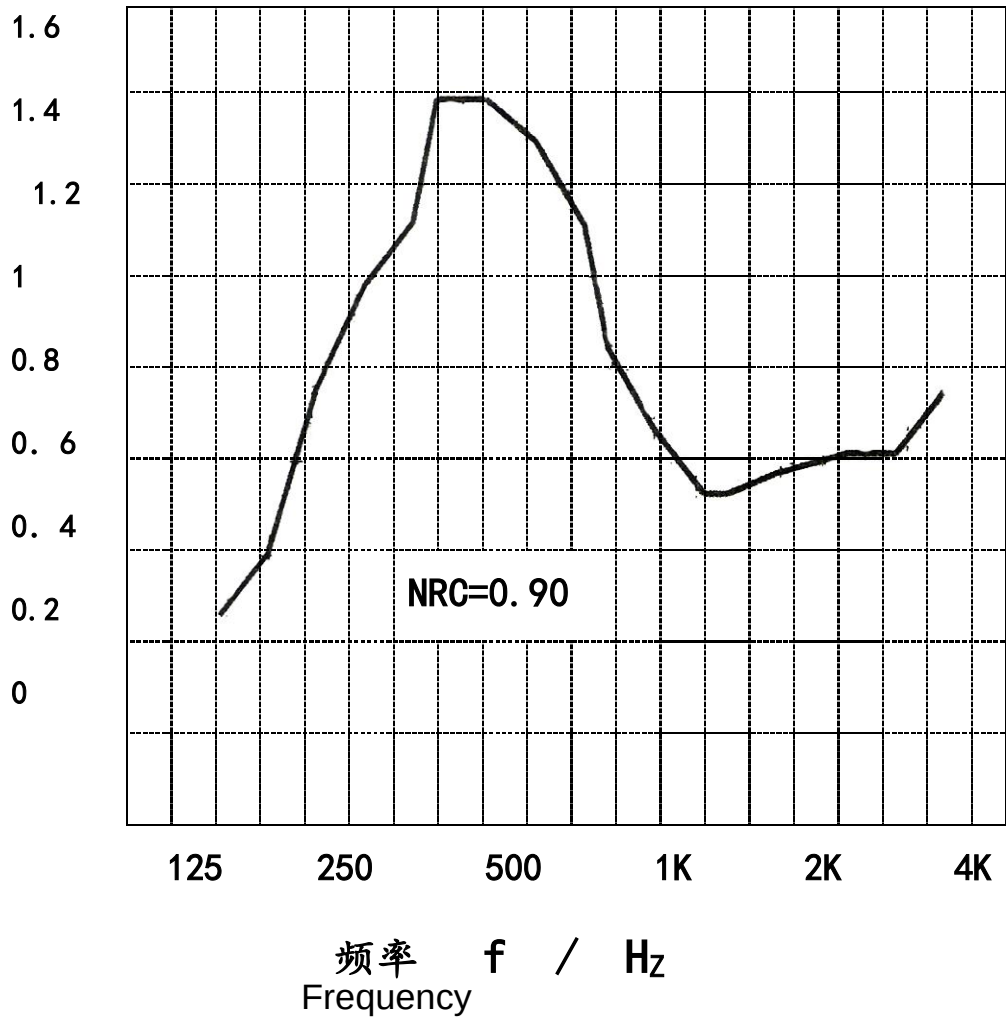
检测单位:
Test Organization



Specimen Arrangement:Dasso Acoustic Panel+ 100mm Air Layer(stuffed with 50mm of Rock Wool Board)
试件布置: 浙江大庄吸音板+50 mm空气层 (内填 50 mm岩棉板)。
检测数据及结果:Test Data And Results

Frequency	频率/Hz	100	125	160	200	250	315	400	500	630
Acoustic Absorptivity	吸声系数 α_R	0.27	0.40	0.71	0.93	1.07	1.38	1.38	1.29	1.16
Frequency	频率/Hz	800	1000	1250	1600	2000	2500	3150	4000	5000
Acoustic Absorptivity	吸声系数 α_R	0.85	0.71	0.62	0.53	0.53	0.58	0.62	0.62	0.76

NRC=0.90



混响室法吸声系数测试报告

Test Report for Sound Absorption Coefficients In A Reverberation Room

Application No 委托编号: SX-07101

Sample No. 样品编号: SX10

Specimen Name: 试件名称: 浙江大庄吸音板 Dasso Acoustic Panel

Test Date: 测试日期: 2010 年 4 月 20 日 April 20, 2014

测试环境条件: 温度: 26°C, 湿度: 54%. Environmental Conditions for Test :Temperature :26°C, Humidity:54%

Specimen Size: 试件规格: 单位尺寸: 197mm×2440mm×15mm, 孔径 φ 8mm-10mm 孔中心距 32mm, 165mm×2440mm

×15mm, 孔径 φ 8mm-10mm 孔中心距 16mm, 槽宽 3mm 槽中收跑 16mm 吸音板后背衬贴无纺布。
Unit Size Diameter of Holes Distance Between Centres Groove Width Acoustic Panel is backed with non-woven fabrics

测试依据: 《混响室法吸音系数测量规范》 (GBJ47-83)。
Test Basis Code for measurement of sound - absorbing coefficient in reverberation room

Frequency Domain 频率范围: 1/3 倍频程中心频率 (HZ): 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000。
1/3 Octave Center Frequency

Test Instrument 测试仪器: 丹麦 BK4417 型建筑声学分析仪, BK416 型传声器, 飞跃 K50G 型功率放大器和扬

声器 Denmark Building Acoustics Analyzer BK4417, Microphone BK416, FEIYUE Power Amplifier K50Q & Loudspeaker

Reverberant Room 混响室: 体积 268 m³, 地面面积 54 m², 表面面积 308 m²。

CBM Ground Area Surface Area

Specimen Area 试件面积: 245m×3.96m=9.7 m²。

吸音系数计算公式: Formula of measurement of sound absorption coefficients

$$^aR = \frac{55.3V}{CS} \left(\frac{1}{T_m} - \frac{1}{T_0} \right)$$

aR 混响室法吸声系数: Sound - absorbing coefficient in reverberation room

V 混响室体积, m³ Volume of reverberation room

S 试件面积, m² Specimen Area

T_m 混响室内放入试件实测的混响时间, s:
Reverberation Time When the Specimen Is Put Into The Reverberation Room

T_0 混响室内未放入试件实测的混响时间, s:
Reverberation Time When the Specimen Is Not Put Into The Reverberation Room

C 空气中声速, m/s: Velocity of sound in the air

$C = 331.5 + 0.5 t$ (t 为空气温度 °C) T means the temperature