Summary of Investigation

subject:	Sound absorption curtain
date:	June 11, 2024
reference:	RA/JvB/DJ/A 4450-4E-NO

Introduction

At the request of Royal Vriesco B.V. at Leeuwarden (The Netherlands), tests have been carried out in the Laboratory for Acoustics of Peutz bv, at Mook, The Netherlands. The aim of the tests is to determine the sound absorbing quality of curtains. The full test results are given in test report A 4450-3E-RA where a description is given of the standards and guidelines, the measurement situation, the measurement method, measurement accuracy and environmental conditions.

This document gives a summary of the test results expressed in the single number ratings and the absorption coefficients corresponding figure.

Measurement results

The measurements have been carried out according to ISO 354:2003 - Acoustics Measurement of sound absorption in a reverberation room. The following results are gained:

Curtain type Supreme F.R.

- manufacturer: Royal Vriesco B.V.
- thickness: approx. 0,80 mm
- surface weight: approx. 306 g/m^2
- 120% fold-rate
- mounting method G-150 (ISO 354 annex B)
- 150 mm distance to the room surface
- tested with perimeter frame

α_w (ISO 11654) = 0,70(H) ± 0,07
Class (ISO 11654): C
NRC (ASTM - C423) = 0,65
SAA (ASTM - C423) = 0,67

The frequency-dependent measurement results are presented in appendix 1.

This note contains 1 page and 1 appendix.

RA

peutz bv, postbus 66, 6585 zh mook, +31 85 822 86 00, info@peutz.nl, www.peutz.nl kvk 12028033,
conditions in accordance with DNR 2011, member NLingenieurs, btw NL.004933837B01, ISO-9001:2015

LABORATORY FOR ACOUSTICS

MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM ACCORDING TO EN-ISO 354:2003

principal: Royal Vriesco B.V.

TESTING RvA L 334

Variant 1: **Supreme F.R.**
- manufacturer: Royal Vriesco B.V.
- dimensions (w x h): 4000 x 2800 mm
- thickness: approx. 0,80 mm
- surface weight: approx. 306 g/m²
- 120% foldrate (width cloth 8,8 m)
- mounting method G-150 (ISO 354 annex B)
- 150 mm distance to the room surface
- tested with perimeter frame

volume reverberation room
214 m³

surface area sample
11,2 m²

distance to wall
0,150 m

measured at
Peutz Laboratory for Acoustics

signal
broad-band noise

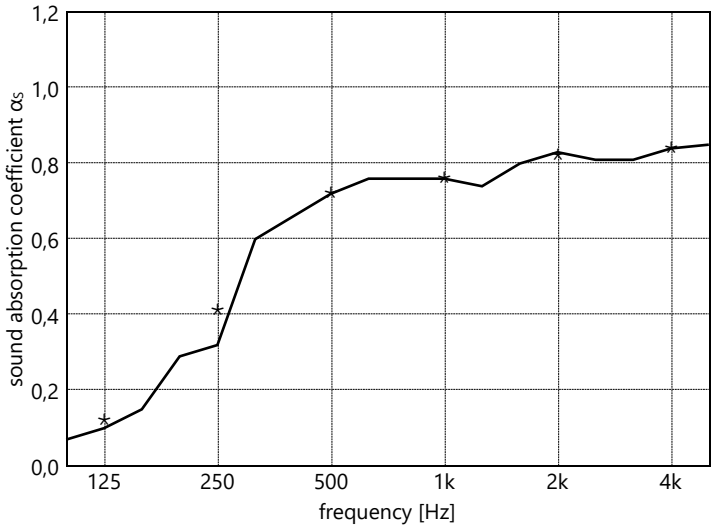
bandwidth
1/3 octave

α_w (ISO 11654) = 0,70(H)

Class (ISO 11654) = C

NRC (ASTM - C423) = 0,65

SAA (ASTM - C423) = 0,67



	125	250	500	1k	2k	4k
	0,07	0,29	0,66	0,76	0,80	0,81
1/3 oct.	0,10	0,32	0,72	0,76	0,83	0,84
	0,15	0,60	0,76	0,74	0,81	0,85
1/1 oct.	**0,11**	**0,40**	**0,71**	**0,75**	**0,81**	**0,83**

——— 1/3 oct.
* 1/1 oct.

publication is permitted for the entire page only

Mook, measured at 23-04-2024

Absorb, versie 5.10.4 mode 7, PM: JvB, file: a4450 E#:1-36 F#:37-72 A#:73 T_1= 17,1°C T_2= 17,2°C p_1= 101,8 kPa p_2= 101,8 kPa h_1= 52,6 % h_2= 51,1 %

A 4450-4E-NO (B2A6681) REMKO