

Summary of Investigation

subject: Sound absorption curtains
date: October 28, 2020
reference: TS/MH/HT/A 2802-7E-NO-004

1 Introduction

At the request of Englisch Dekor Handels GmbH & Co KG at Wien (Austria), 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 2802-1E-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.

2 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 Diva Carmen and Aida

- Velvet curtain
- 100% fold-rate
- mounting method G-150 (ISO 354 annex B)
- 150 mm distance to the room surface
- tested without perimeter frame

α_w (ISO 11654) = 0,75
class: C
NRC (ASTM - C423) = 0,70

The frequency-dependent measurement results are presented on page 2 in the figure sheet.

This note contains: 1 pages and 1 figure

Mook,



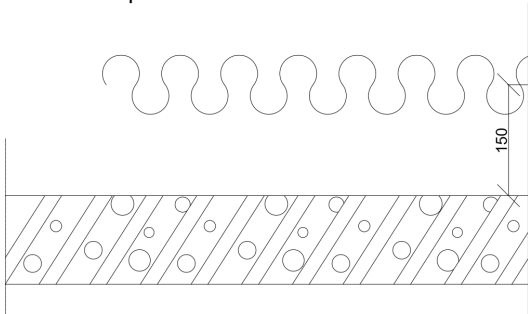
MEASUREMENT OF SOUND ABSORPTION IN A REVERBERATION ROOM
ACCORDING TO ISO 354:2003



principal: Englisch Dekor Handels GmbH & Co KG at Wien

Curtain type Diva Carmen and Aida

- Velvet curtain
- 100% fold-rate
- mounting method G-150 (ISO 354 annex B)
- 150 mm distance to the room surface
- tested without perimeter frame



volume reverberation room: 214 m³

surface area sample: 11,28 m²

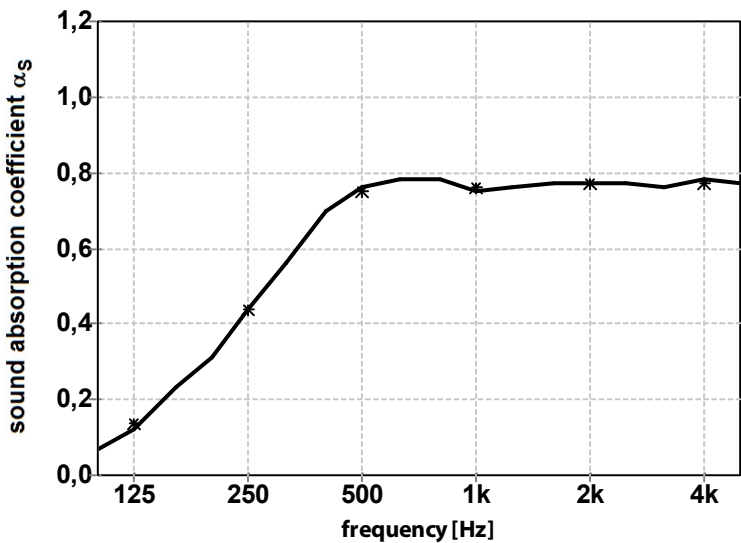
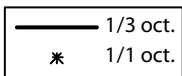
measured at:
Peutz Laboratory for Acoustics

signal: broad-band noise

bandwidth: 1/3 octave

α_w (ISO 11654) = 0,75
class: C

NRC (ASTM - C423) = 0,70



	0,07	0,31	0,70	0,78	0,77	0,76
1/3 oct.	0,12	0,44	0,76	0,75	0,77	0,78
	0,23	0,56	0,78	0,76	0,77	0,77
1/1 oct.	0,14	0,44	0,75	0,76	0,77	0,77
α_{pi}	0,15	0,45	0,75	0,75	0,75	0,75

publication is permitted for the entire page only

Mook, 05-12-2014

Figure 1