Summary of Investigation

subject: Texacoustic® Absorption Measurements

date: June 29, 2017

reference: TS/MH/KF/A 3049-2E-NO-001

1 Introduction

At the request of Raymakers Royal Dutch Textile Mills at Helmond (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 Texacoustic®. The full test results are given in test reports A 2974-2E-RA (variant 1) and A 3049-1E-RA (variant 2 and 3) 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:

Texacoustic® type 955.001

- Texacoustic®
- manufacturer: Raymakers Royal Dutch Textile Mills
- tested without perimeter frame
- dimensions (one of the two parts): 1380 mm x 2820 mm
- thickness: ca. 3,5 – 4 mm
- surface weight:1080 g/m^2 - 1240 g/m^2

Variant 1: Texacoustic® type '955.001' hanged parallel tot the room surface on 300 mm, 100% fold-rate, without perimeter frame

α_w (ISO 11654) = 0,95
class: A
NRC (ASTM - C423) = 0,90
SAA (ASTM - C423) = 0,89

Absorption is calculated based on a single-sided surface

Variant 2: Texacoustic® type '955.001' hanged parallel tot the room surface on 1000 mm, 100% fold-rate, without perimeter frame

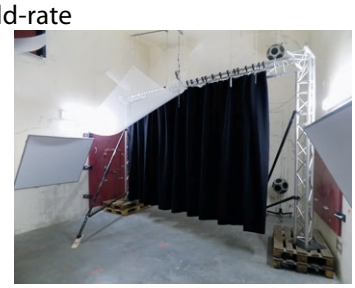
α_w (ISO 11654) = 0,90
class: A
NRC (ASTM - C423) = 0,90
SAA (ASTM - C423) = 0,92

Absorption is calculated based on a single-sided surface

Variant 3: Texacoustic® type '955.001' free hanging in the reverberation room (diagonal and non parallel to a wall), 100% fold-rate

α_w (ISO 11654) = 1,00
class: A
NRC (ASTM - C423) = 1,10
SAA (ASTM - C423) = 1,12

Absorption is calculated based on a single-sided surface



The frequency-dependent measurement results are presented on page 3 in the figure sheet.

Mook,

This note contains 2 pages, 1 figure

TEXACOUSTIC®
the sound of beauty

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NR.	Rec-Nr.	DESCRIPTION
Variant 1:	#1046	Texacoustic® type '955.001' hanged parallel tot the room surface on
Black Line		300 mm, 100% fold-rate, without perimeter frame

α_w (ISO 11654) = 0,95
class: A
NRC (ASTM - C423) = 0,90
SAA (ASTM - C423) = 0,89
Absorption is calculated based on a single-sided surface

Variant 2: #1885 Texacoustic® type '955.001' hanged parallel tot the room surface on

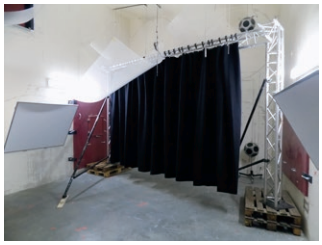
Red Line 1000 mm, 100% fold-rate, without perimeter frame

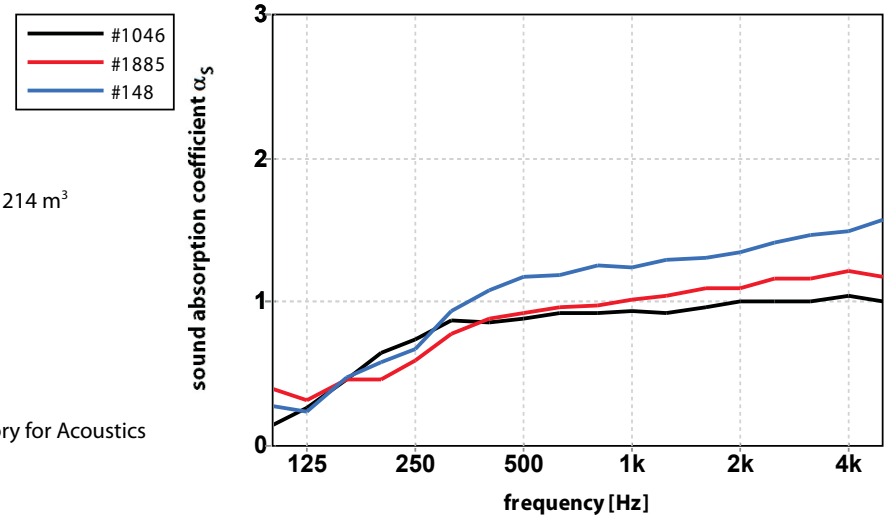
α_w (ISO 11654) = 0,90
class: A
NRC (ASTM - C423) = 0,90
SAA (ASTM - C423) = 0,92
Absorption is calculated based on a single-sided surface

Variant 3: #148 Texacoustic® type '955.001' free hanging in the reverberation room

Blue Line (diagonal and non parallel to a wall), 100% fold-rate

α_w (ISO 11654) = 1,00
class: A
NRC (ASTM - C423) = 1,10
SAA (ASTM - C423) = 1,12
Absorption is calculated based on a single-sided surface





volume reverberation room: 214 m³

surface area sample:
Variant 1: 10,6 m²
Variant 2: 11,2 m²
Variant 3: 11,0 m²

measured at: Peutz Laboratory for Acoustics

signal: broad-band noise

bandwidth: 1/3 octave

Rec.nr						
#1046	0,29	0,75	0,89	0,93	0,99	1,02
#1885	0,39	0,61	0,92	1,02	1,12	1,18
#148	0,33	0,73	1,15	1,26	1,36	1,51

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