

Laboratory for Acoustics

*Determination of the sound absorption
(reverberation room method) of Airpanel,
manufacturer Texdecor*





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Determination of the sound absorption (reverberation room method) of Airpanel, manufacturer Texdecor

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All orders are accepted and executed according to 'De Nieuwe Regeling 2011' (The New Rules)

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1 Introduction

At the request of Texdecor based in Willems (France), laboratory measurements of the sound absorption (reverberation room method) were carried out on:

**Airpanel
manufacturer Texdecor**

in the Laboratory for Acoustics of Peutz bv, at Mook, the Netherlands (see figure 1).



For these type of measurements the Laboratory for Acoustics has been accredited by the Dutch Accreditation Council (RvA).

The RvA is member of the EA MLA (**EA MLA: European Accreditation Organisation MultiLateral Agreement**: <http://www.european-accreditation.org>).

EA: "Certificates and reports issued by bodies accredited by MLA and MRA members are considered to have the same degree of credibility, and are accepted in MLA and MRA countries."

2 Standards and guidelines

The measurements have been carried out according to the Quality Manual of the Laboratory for Acoustics as well as:

ISO 354:2003¹ Acoustics Measurement of sound absorption in a reverberation room
NOTE: this international standard has been accepted within all EU-countries
 as European standard EN ISO 354:2003

Various other related norms:

EN ISO 11654:1997 Acoustics Sound absorbers for use in buildings Rating of sound
 absorption

ASTM C423-09a Standard Test Method for Sound Absorption and Sound Absorption
 Coefficients by the Reverberation Room Method

¹ According to this norm, the report should include for each measurement the mean reverberation times T_1 and T_2 at each frequency. Because these figures are not relevant for judging the quality of the product being tested, but merely for judging the accuracy of the calculations, they have been omitted in this report. It is possible of course to reproduce those figures at any time if the principal requests this.

EQUIVALENT SOUNDABSORPTION AREA PER OBJECT conform ISO 354:2003

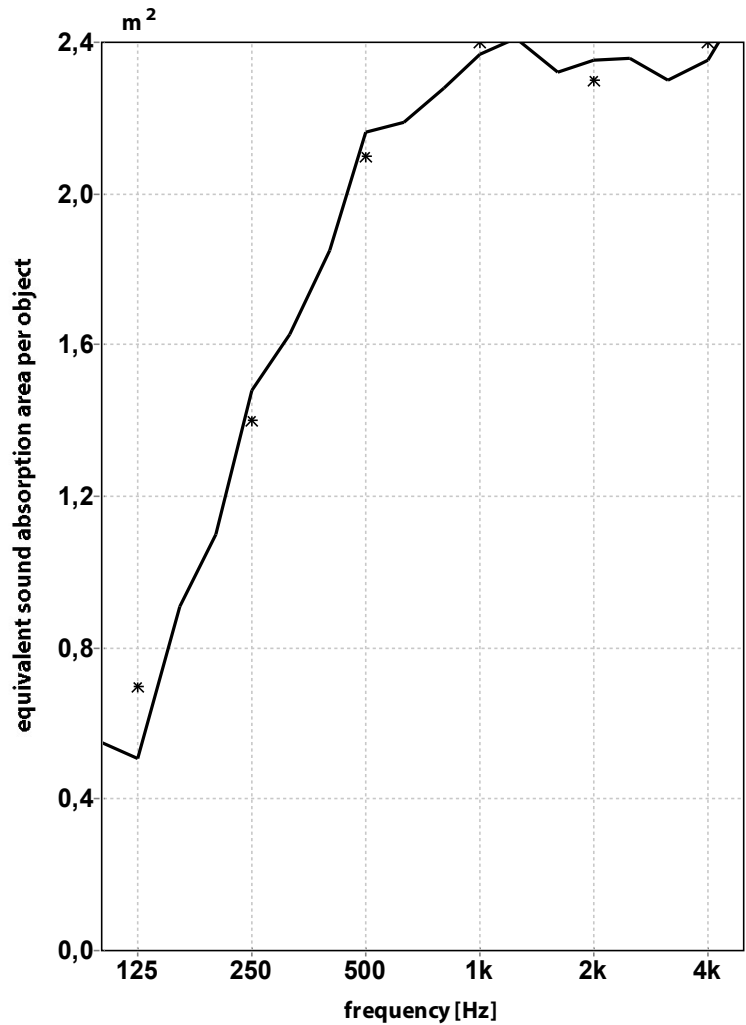


principal: Texdecor

#5; Airpanel; baffle (double sides); 4 panels



— 1/3 oct.
* 1/1 oct.



volume reverberation room: 214 m³

number of elements during test: 4

measured at: Peutz Laboratory for Acoustics

signal: broad-band noise

bandwidth: 1/3 octave

	0,6	1,1	1,9	2,3	2,3	2,3
1/3 oct.	0,5	1,5	2,2	2,4	2,4	2,4 m ²
	0,9	1,6	2,2	2,4	2,4	2,5
1/1 oct.	0,7	1,4	2,1	2,4	2,3	2,4 m ²

publication is permitted for the entire page only

Mook, measured at 24-10-2016