

# Schall- und Wärmemesstelle Aachen GmbH

Institut für schalltechnische und wärmetechnische Prüfung - Beratung - Planung

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Aachen, 2011-03-16

Report No.: **bdt-090211A TS**

Measurement of impact sound insulation of a floor covering  
on a solid strings floor

Date of test: 2011-02-11

Applicant: ODE AAN DE VLOER

Product name: ODE PUUR with sound insulating layer

Construction: elastic flooring

Classification: category I of ISO 10140

Installation: glued on

setting time: 120 h

Design description:  
(from the bottom up)

Remarks:

Sampling: Applicant

Number of pages: 2 pages

# Impact sound insulation according ISO 10140 (all parts)

Measurement of impact sound insulation by a floor covering  
on a solid strings floor

Enclosure: TS

Page 2 of 2

**Product name** ODE PUUR with sound insulating layer

Construction: elastic flooring

Date of test: 2011-02-11

Classification: category I according to ISO 10140

installation: glued on

setting time: 120 h

installed by: laboratory

**Description of test material:**

Total thickness: -- mm

Mass area: ca. 5 kg/m<sup>2</sup>

Specifies during the test (imprint or damage at the sample)

**Test room: 02 and K2, Hauptstrasse 133, 52477 Aisdorf, Germany**

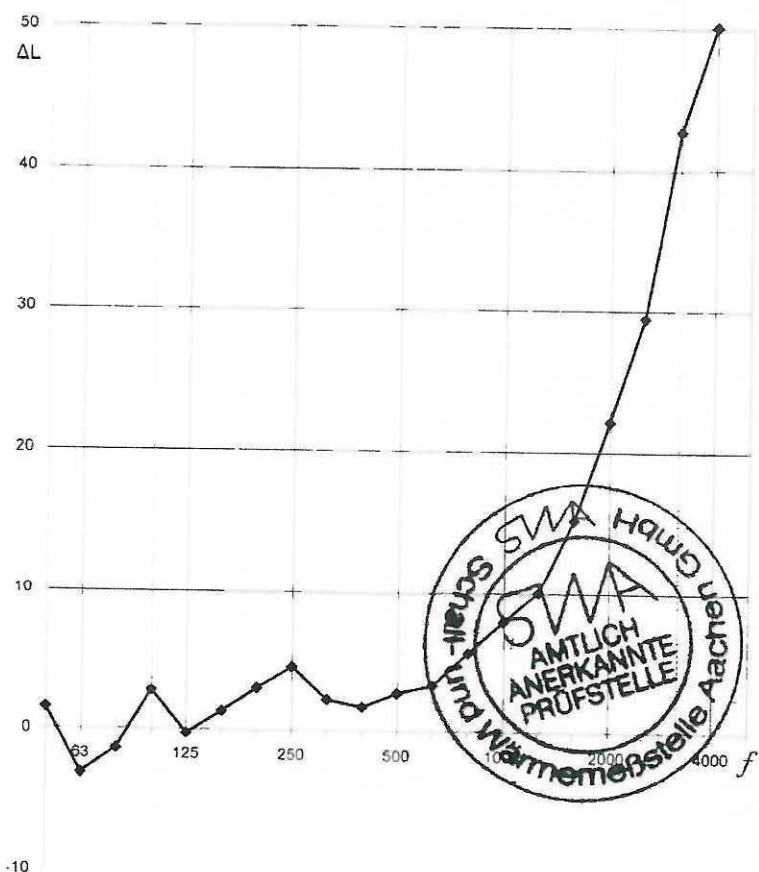
Temperature in the sending room: 20.0 °C

Humidity in the sending room: 56.0 %

Volume of the receiving room: 58.9 m<sup>3</sup>

frequency range for the evaluation according to ISO 717-2

Frequency <i>f</i> Hz	<i>L</i> <sub>n,p</sub> third-octave dB	$\Delta L$ third-octave dB
50		1.5
63		-3.2
80		-1.4
100	61.0	2.8
125	61.4	-0.3
160	64.8	1.3
200	63.7	3.0
250	65.4	4.5
315	65.6	2.2
400	66.1	1.7
500	66.0	2.7
630	66.4	3.3
800	66.3	5.6
1 000	66.2	7.8
1 250	66.6	9.9
1 600	67.2	15.1
2 000	67.1	22.0
2 500	67.0	29.3
3 150	66.4	42.6
4 000		50.0
5 000		50.6



**Legend:**

$\Delta L$  impact sound protection, in dB

*f* Frequency in Hz

Calculation according to ISO 717-2

$\Delta I_w = 14$  dB

$C_{l,\Delta} = -9$  dB

$C_{l,r} = -2$  dB

$C_{l,r,50-2500} = 0$  dB

The results base on tests, which were effected with on artificial source of sound under laboratory conditions. (standard method)

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(Dipl.-Ing. A. Siebel)