

Short test report

Measurement of impact sound insulation

Test report No.: 143/171

Applicant Unilin Flooring
Ooigemstraat 3
8710 Wielsbeke

Schallschutzprüfstelle VPMA · Zertifiziert
Güteprüfungen · Eignungsprüfungen · ABP

Staatlich anerkannte Sachverständige für den
Schallschutz und Wärmeschutz · IK-Bau NRW

Blower Door Messungen · Gebäudethermografie ·
Energieberatung · EnEV-Nachweise Wohn-
gebäude · EnEV-Nachweise Nicht-Wohngebäude

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Aachen, 06.06.2014

Product Name Underlay System
Quickstep Transitsound - 2 mm

Construction (from top to bottom) 8,0 mm Quickstep 800
2,0 mm Quickstep Transitsound - 2 mm / film side to subfloor

Category II according to ISO 10140, see annotation

Testing surface 10 m²

Installation loose laid on the floor

Annotations weighted down with ca. 23kg/m²

Supplement 1 cf. s measurement results

$\Delta L_w = 20$ dB

$\Delta L_{lin} = 10$ dB

$C_{l,\Delta} = -10$ dB

$C_{l,r} = -1$ dB

$C_{l,r,50-2500} = 1$ dB

Fundamentals:
EN ISO 10140-1 : 2010-12
EN ISO 10140-3 : 2010-12
EN ISO 10140-4 : 2010-12
EN ISO 10140-5 : 2010-12
EN ISO 717-2 : 2013-06



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(Dr.-Ing. A. Siebel)

Number of pages:

1 pages and 1 supplement

Measurement of impact sound insulation according to ISO 10140-3 : 2010-12

Laboratory measurement of sound insulation of building elements.

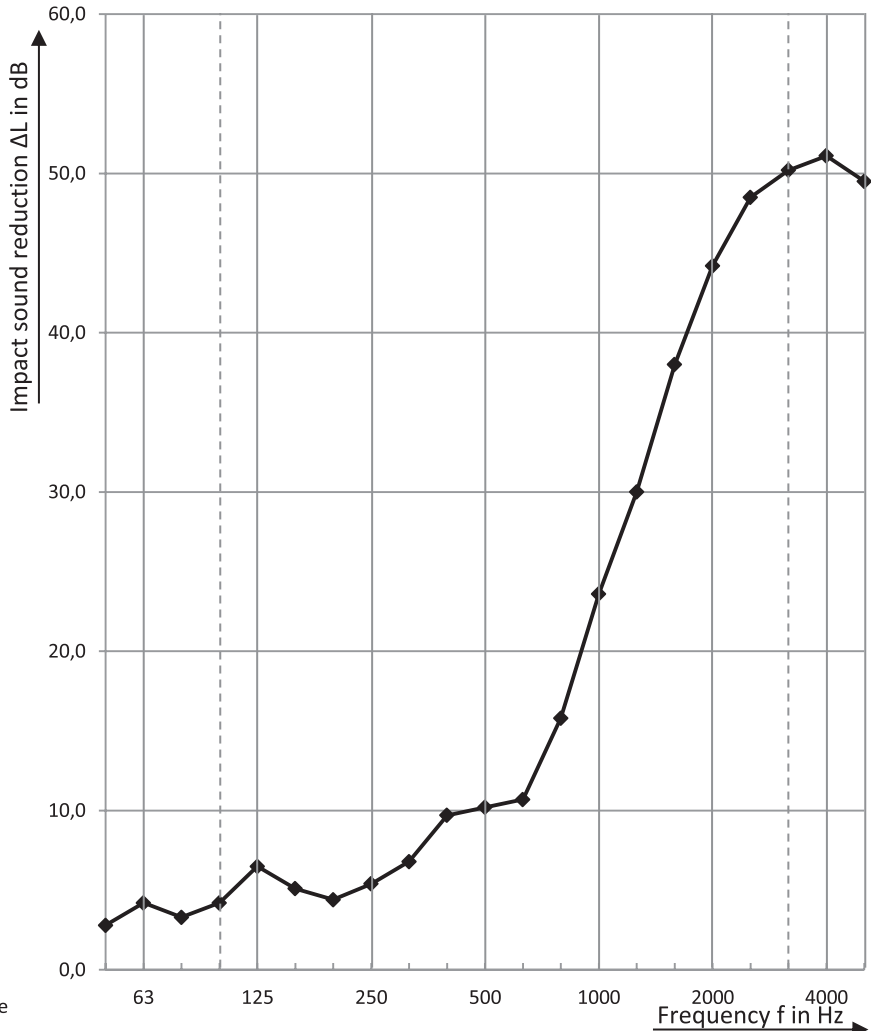
Product name: Alveocel LU 4301-2mm LD200
Category: II according to ISO 10140, see annotation
Konstruktion: 8,0 mm Quickstep 800
 (from top to bottom) 2,0 mm Transitsound / film side to subfloor

Reference floor: solid concrete floor
installed by: applicant

Date of test: 20.03.2014
annotations: weighted down with ca. 23 kg/m², loose laid on the floor

climate in the source room in the receiving room
air temperature: 19°C 19 °C
humidity: 52% 55%

Frequency f [Hz]	L _{n,0} third-octave [dB]	ΔL third-octave [dB]
50	56,5	2,8
63	62,7	4,2
80	57,4	3,3
100	57,2	4,2
125	67,5	6,5
160	62,6	5,1
200	64,1	4,4
250	67,1	5,4
315	65,3	6,8
400	64,7	9,7
500	65	10,2
630	65,3	10,7
800	66,4	15,8
1000	67,8	23,6
1250	67,7	30,0
1600	68,2	38,0
2000	68,8	44,2
2500	68,6	48,5
3150	67,9	50,2
4000	66,9	51,1
5000	64,4	49,5



*Airborne noise correction for the measured value

Calculation according to ISO 717-2:2013-06

$\Delta L_w = 20 \text{ dB}$ $\Delta L_{in} = 10 \text{ dB}$
 $C_{l,\Delta} = -10 \text{ dB}$ $C_{l,r} = -1 \text{ dB}$ $C_{l,r,50-2500} = 1 \text{ dB}$

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

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SWA Schall- und Wärmemesstelle Aachen GmbH

Aachen, 06.06.2014

(Dr.-Ing. A. Siebel)