

Short test report

Measurement of impact sound insulation

Test report No.: 139/566

Applicant unifloor BV
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NL 7418 EV Deventer

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-
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Aachen, 25.10.2013

Product Name Underlay System
HeatFoil / click laminate

Construction 8 mm click laminate
(from top to bottom) 1 mm HeatFoil

Category II according to ISO 10140
Testing surface ca. 13 m²
Installation loose laid
Annotations weighted down with ca. 23 kg/m²

Supplement 1 cf. s measurement results

$\Delta L_w = 20$ dB

$\Delta L_{in} = 10$ dB

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

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

$C_{i,r,50-2500} = 1$ 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

(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.

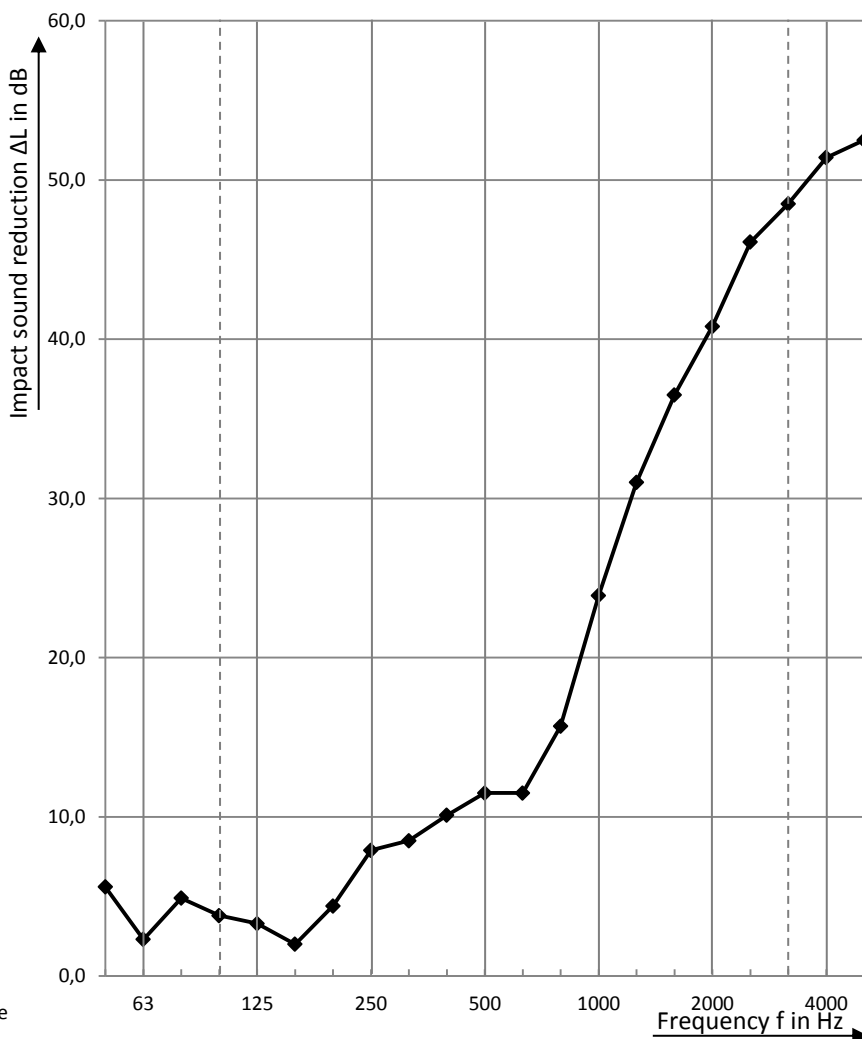
Product name: HeatFoil / Click laminate
Category: II according to ISO 10140
Konstruktion: 8 mm click laminate -
 (from top to bottom) 1 mm HeatFoil -

Reference floor: solid concrete floor
installed by: applicant

Date of test: 25.09.2013
annotations: weighted down with ca. 23 kg/m²

climate in the source room in the receiving room
air temperature: 21 °C 21 °C
humidity: 62% 58%

Frequency f [Hz]	L _{n,0} third-octave [dB]	ΔL third-octave [dB]
50	56,5	5,6
63	62,7	2,3
80	57,4	4,9
100	57,2	3,8
125	67,5	3,3
160	62,6	2,0
200	64,1	4,4
250	67,1	7,9
315	65,3	8,5
400	64,7	10,1
500	65	11,5
630	65,3	11,5
800	66,4	15,7
1000	67,8	23,9
1250	67,7	31,0
1600	68,2	36,5
2000	68,8	40,8
2500	68,6	46,1
3150	67,9	48,5
4000	66,9	51,4
5000	64,4	52,5



*Airborne noise correction for the measured value

Calculation according to ISO 717-2:2013-06

ΔL_w = 20 dB ΔL_{in} = 10 dB
C_{l,Δ} = -10 dB C_{l,r} = -1 dB C_{l,r,50-2500} = 1 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, 25.10.2013

(Dr.-Ing. A. Siebel)