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**daidalos peutz**  
 laboratory of acoustics



N° 451-TEST  
 NBN EN ISO 17025:2017  
 EA MLA signatory

## NOISE LAB

**TEST REPORT Number A-2023LAB-015-I653-44978\_E**

**Customer :** Belgotex  
 20 Chesterfield Road  
 Willowtown, Pietermaritzburg, 3201  
 South Africa

**Contacts :** Client : Logan Cattigan  
 Noise lab : Els Meulemans

**Tests :** Laboratory measurement of the reduction of impact noise by a floating floor system  
 on a heavyweight standard floor.  
**Product name :** Belgotex: Sheer Bliss - Tufted Cut Pile Broadloom Carpet

### Normative references:

NBN EN ISO 10140-3:2021 Acoustics - Laboratory measurement of sound insulation of building elements  
 - Part 3: Measurements of impact sound insulation

### Various other related norms:

NBN EN ISO 10140-1:2021 Acoustics - Laboratory measurement of sound insulation of building elements  
 - Part 1: Application rules for specific products

NBN EN ISO 10140-4:2021 Acoustics - Laboratory measurement of sound insulation of building elements  
 - Part 4: Measurement procedures and requirements

NBN EN ISO 10140-5:2021 Acoustics - Laboratory measurement of sound insulation of building elements  
 - Part 5: Requirements for test facilities and equipment

NBN EN ISO 12999-1:2020 Acoustics - Determination and application of measurement uncertainties in building acoustics  
 - Part 1: Sound insulation

NBN EN ISO 717-2:2021 Acoustics - Rating of sound insulation in buildings and of building elements  
 - Part 2: Impact sound insulation

To perform the above measurements, the laboratory of Daidalos Peutz is accredited by BELAC, "The Belgian Accreditation Body", under the certificate nr N°451-TEST. The activities covered by this accreditation certificate are covered by the EA MLA.

BELAC is a signatory of all existing multilateral agreements and recognition agreements of International Laboratory Accreditation Cooperation (ILAC).

In this way, reports issued by BELAC accredited bodies are internationally accredited.

<b>Date and reference of the request:</b>	31/01/2023	2023LAB-015
<b>Date of receipt of the specimen (s):</b>	13/02/2023	SONI653
<b>Date of tests:</b>	21/02/2023	
<b>Date of preparation of the test report:</b>	21/02/2023	

The measurements were carried out at Daidalos Peutz Laboratory for Acoustics at Hooglede, see appendix 1  
 This test report together with its annexes contains : 13 pages and must be multiplied only in its entirety.

Technical Manager,

Paul Mees

Laboratory Engineer,

Els Meulemans

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### MEASURING EQUIPMENT

#### Source signal

Brüel & Kjaer - 4292 : Omni Power Sound Source  
 Brüel & Kjaer - 2716 : Power amplifier  
 Norsonic Nor277 : Tapping machine conform ISO 10140-5 Annex E

#### Microphone and data acquisition system:

Brüel & Kjaer - 4189 : 1/2" free field microphone, 6Hz to 20kHz, prepolarized  
 Brüel & Kjaer - ZC-0032 : 1/2" microphone preamplifier  
 Brüel & Kjaer - 4231 : Sound calibrator 94&114dB SPL-1000Hz, Fulfils IEC 60942 Class1  
 Brüel & Kjaer - JP 1041 : dual 10-pole adaptor JP-1041  
 Brüel & Kjaer - 2270 : Sound level meter - dual channel instrument (measuring both channels simultaneously)  
 Conforms with IEC 61672-1 Class 1  
 Brüel & Kjaer - 3923 : rotating microphone boom

#### One rotating microphone system in the receiving room

Number of tapping machine positions:	3
<i>Minimum 0,7m between the different source positions</i>	
<i>Distances to the board of the floor at least 0.5 m</i>	
<i>Random positions and orientation of the tapping machine.</i>	
Number of microphone positions for each tapping machine position:	3
<i>Microphone position with a rotating microphone</i>	
Number of rotations:	3
Rotation speed:	16 s/tr
Minimum rotation time:	30 s
<i>Just not a rotation angle &lt;10 ° to the chamber surfaces</i>	

#### Data processing

Brüel & Kjaer - BZ-5503 : utility software for hand-held analyzers  
 Brüel & Kjaer - BZ-7229 : dual-channel building acoustics software  
 Brüel & Kjaer - 7830 :Qualifier Software for reporting results  
 A computer with proprietary software

Averaging Time per measurement:	48 s
Number of reverberation time measurements (with graphic control):	27

#### Test chambers

Volume receiving room:	53,45 m <sup>3</sup>
Reference floor area:	12,00 m <sup>2</sup>
Surface test floor :	3 x 0,5 m <sup>2</sup>
There are diffusers and absorption material applied in the receiving room.	

#### Standard floor

The base floor used is a 140 mm thick solid reinforced concrete slab.  
 According to ISO 10140-5 Annex C this is the "heavyweight standard floor".



## NOISE LAB

TEST REPORT Number **A-2023LAB-015-I653-44978\_E**

### STANDARD METHOD

The normalised impact sound pressure level  $L_n$  and the reduction of sound pressure level (improvement of impact sound insulation)  $\Delta L$  were measured according to the standard NBN EN ISO 10140-3:2010. A detailed description of the test set up has been given in the figures of annex 1 of this report.

The tests were measured as follows:

- The test sample is mounted onto a heavyweight standard floor, in accordance with the descriptions in the standard NBN EN ISO 10140-1 and 10140-3.
- The standardized (see NBN EN ISO 10140-5:2021 Annex E) tapping machine is positioned in 3 or 4 positions on the test floor (depending on the sample). The impact sound pressure levels are measured in the receiving room below the test floor using a moving microphone. A one-third octave band analyser measured the averaged sound levels in the third octave bands from 100 to 5000 Hz. If required, the levels are corrected to account for the background noise. The individual measurements are then averaged energetically for each one-third octave band and converted with the reverberation time measurements to the normalized impact sound pressure level  $L_n$  for a receiving room having 10m<sup>2</sup> of equivalent sound absorption area.
- The normalized impact sound pressure level of the heavyweight standard floor  $L_{n,0}$  is measured using the identical procedure.
- The normalized impact sound pressure level is calculated according to the following equation:

$$L_n = L_i + 10 \log (A/A_0) \quad [\text{dB}]$$

met	$L_n$	=	The normalized impact sound pressure level, expressed in dB (ref 20μPa)
	$L_i$	=	the energy average sound pressure level in a one-third octave band in the receiving room when the floor under test is excited by the standardized tapping machine
	$A_0$	=	the reference equivalent absorption area (= 10m <sup>2</sup> )
	$A$	=	the measured equivalent absorption area

- The temperature, relative humidity and static pressure is also measured in the test rooms.
- The improvement  $\Delta L$  of the impact sound insulation is calculated from the difference between the weighted impact sound levels of the bare floor without and with the floor covering:

$$\Delta L = L_{n,0} - L_n \quad [\text{dB}]$$

met	$\Delta L$	=	The improvement of the impact sound insulation
	$L_{n,0}$	=	normalized impact sound pressure level of the bare floor
	$L_n$	=	normalized impact sound pressure level of the bare floor with floor covering

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**STANDARD METHOD**

**Single rating numbers**

Evaluation according to EN ISO 717-2 defines single-number quantities,  $L_{n,w}$  ( $C_i$ ) for the impact sound insulation of floors and  $\Delta L_w(C_{i,\Delta})$  for the impact sound reduction of floor coverings and floating floors from the results of measurements carried out in accordance with NBN EN ISO 10140-3. The values obtained in accordance with ISO 10140-3 are compared with reference values at the frequencies of measurement within the range 100Hz to 3150 Hz for measurements in one-third octave bands. The calculation of the single-value indicator can not be summarised in a few lines. See standard NBN EN ISO 717-2 for details.

$L_{n,w}$  = weighted normalized impact sound pressure level  
 $L_{n,w}+C_i$  = weighted normalized impact sound pressure level corrected with the adaptation term  $C_i$

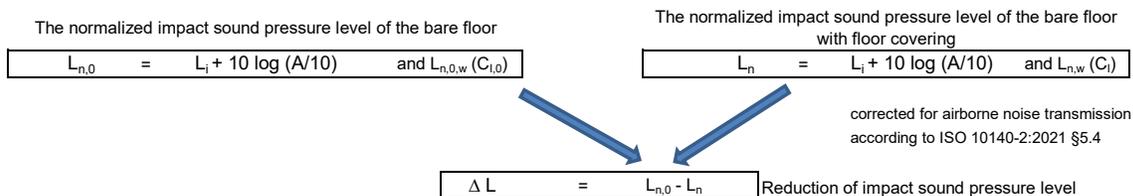
$C_i$  =  $L_{n,sum} - 15 - L_{n,w}$  With  $L_{n,sum}$  the summation on an energetic basis for the one-third octave bands in the frequency range 100Hz to 2,5kHz

$$L_{n,sum} = 10 \log \sum_{i=1}^k 10^{\frac{L_i}{10}}$$

Calculations of the spectrum adaptation term may additionally be carried out for an enlarged frequency range.

The single-number quantities of impact sound insulation properties of floors, presented as  $L_{n,w}$  ( $C_i$ )

The single-number quantities of the weighted reduction in impact sound pressure level for floorcoverings, is presented as  $\Delta L_w$  ( $C_{i,\Delta}$ ) and  $\Delta L_{in}$



To compare the measurement results obtained in different test laboratories, the normalized impact sound level  $L_n$  is referred to the reference floor defined in ISO 717-2 in the following way. The quantity is designated by the index "r" ("reference floor"):  $L_{n,r}$

$$L_{n,r} = L_{n,r,0} - \Delta L \quad \text{and} \quad L_{n,r,w} (C_{i,r})$$

with  $L_{n,r,0}$  is the defined normalized impact sound pressure level of the reference floor (see ISO 717-2 point 5.2)

$$\Delta L_w = L_{n,r,0,w} - L_{n,r,w} = 78 - L_{n,r,w} \quad \text{with} \quad C_{i,\Delta} = C_{i,r,0} - C_{i,r} = -11 - C_{i,r}$$

$$\Delta L_{in} = \Delta L_w + C_{i,\Delta}$$

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### SPECIAL MEASUREMENT CONDITIONS

/

### ACCURACY

The accuracy of the impact sound insulation as calculated can be expressed in terms of repeatability (tests within one laboratory) and reproducibility (between various laboratories)

Repeatability [r]

When: - two tests are performed on identical test material - within a short period of time - by the same person or team - using the same instrumentation - under unchanged environmental conditions - the probability will be 95% that the difference between the two test results will be less than or equal to r

Reproducibility [R]

When: - two tests are performed on identical test material - in different laboratories - by different person(s) - under different environmental conditions - the probability will be 95% that the difference between the two test results will be less than or equal to R

The standard ISO 12999-1 contains a statement on the expected reproducibility R, based on the results of various interlaboratory tests.

The standard deviation for the reduction in impact sound pressure level,  $\Delta L_w$ , obtained under reproducibility conditions,  $\sigma_R$ , for the single number value, in accordance with ISO 717-1 from table 7 of standard ISO 12999-1 is 1,1dB.

At present, there are no results available for impact sound insulation at reproducibility conditions. Indicated values are estimates.

The standard deviation for impact sound insulation,  $L_{n,w}$ , obtained under reproducibility conditions,  $\sigma_R$ , for the single number value, in accordance with ISO 717-2, from table 5 of standard ISO 12999-1 is 1,5dB.

For  $L_{n,w}$  is  $\sigma_R$ , from table 5 of standard ISO 12999-1 estimated as 1,5dB

### ENVIRONMENTAL CONDITIONS during the tests

	Source room	Receiving room
Temperature :	T = 18,1 °C	18,3 °C
Atmospheric pressure :	p = 1016,9 hPa	1016,5 hPa
Relative humidity :	h <sub>r</sub> = 52,1 %	52,7 %



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**MEASUREMENT AND CALCULATION DETAILS**

The results as presented here relate only to the tested items and laboratory conditions as described in this test report.

The results of the measurements are presented on the next pages (6 till 9)

- on page 7 : the measurement results for the normalized impact sound level for the bare floor (the naked laboratory floor)
- on page 8 : the measurement results for the normalized impact sound level for the bare floor with floor covering, composition of the test element in annex 2
- on page 9 : the calculation of the reduction of impact sound pressure

The results are given at all frequencies of measurement, both in tabular form and in the form of a graph.

The next table present an overview of the measurements and calculations

f	L <sub>n,0</sub> bare floor	L <sub>n</sub> bare floor + floor covering	ΔL L <sub>n,0</sub> - L <sub>n</sub>	L <sub>n,r,0</sub> reference floor according ISO 717-2 / 5.2	L <sub>n,r</sub> reference floor + floor covering L <sub>n,r,0</sub> - ΔL	
(Hz)	(dB)	(dB)	(dB)	(dB)	(dB)	
50	41,7	37,2	4,5			
<b>63</b>	<b>61,5</b>	<b>55,3</b>	6,2			
80	62,2	56,5	5,7			
100	62,8	55,5	7,3	67,0	<b>59,7</b>	
<b>125</b>	<b>66,1</b>	<b>55,1</b>	11,0	67,5	<b>56,5</b>	
160	64,1	51,8	12,3	68,0	<b>55,7</b>	
200	66,3	48,2	18,1	68,5	<b>50,4</b>	
<b>250</b>	<b>67,1</b>	<b>44,9</b>	22,2	69,0	<b>46,8</b>	
315	67,1	37,2	29,9	69,5	<b>39,6</b>	
400	67,6	32,1	35,5	70,0	<b>34,5</b>	
<b>500</b>	<b>67,7</b>	<b>29,7</b>	38,0	70,5	<b>32,5</b>	
630	68,1	24,8	43,3	71,0	<b>27,7</b>	
800	69,5	22,0	47,5	71,5	<b>24,0</b>	
<b>1000</b>	<b>69,8</b>	<b>16,9</b>	52,9	72,0	<b>19,1</b>	
1250	69,8	14,0	55,8	72,0	<b>16,2</b>	
1600	70,3	9,2	61,1	72,0	<b>10,9</b>	
<b>2000</b>	<b>70,9</b>	<b>6,5</b>	64,4	72,0	<b>7,6</b>	
2500	71,1	5,6	65,5	72,0	<b>6,5</b>	
3150	69,7	5,9	63,8	72,0	<b>8,2</b>	
<b>4000</b>	<b>66,8</b>	<b>5,4</b>	61,4	/	/	
5000	63,3	5,5	57,8	/	/	
<b>ISO</b> 717-2	L <sub>n,0,w</sub>	L <sub>n,w</sub>		L <sub>n,r,0,w</sub>	L <sub>n,r,w</sub>	ΔL <sub>w</sub> = 78 - L <sub>n,r,w</sub>
	<b>76</b>	<b>43</b>		78	46	<b>32 dB</b>
	C <sub>L,0</sub>	C <sub>L</sub>		C <sub>L,r,0</sub>	C <sub>L,r</sub>	C <sub>L,Δ</sub> = C <sub>L,r,0</sub> - C <sub>L,r</sub>
	<b>-11</b>	<b>2</b>		-11	2	<b>-13 dB</b>
ΔL <sub>in</sub> = ΔL <sub>w</sub> + C <sub>L,Δ</sub>						
<b>19 dB</b>						

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**NOISE LAB**  
**TEST REPORT Number A-2023LAB-015-I653-44978\_E**

**$L_{n,0}$**

**NORMALIZED IMPACT SOUND PRESSURE LEVEL (of standard floor) in accordance with ISO 10140-3:2010**

**Client:** Belgotex

**Date of test:** 21/02/2023

**Description of the test setup:**

The base floor used is a 140 mm thick solid reinforced concrete slab.  
 According to ISO 10140-5 Annex C this is the "heavyweight standard floor".

Receiving room volume V: 53,5 m<sup>3</sup>  
 Reference floor area : 12,0 m<sup>2</sup>  
 Tested floor area : 3 x 0,5 m<sup>2</sup>

Signal : Standard tapping machine with steel-headed hammers.

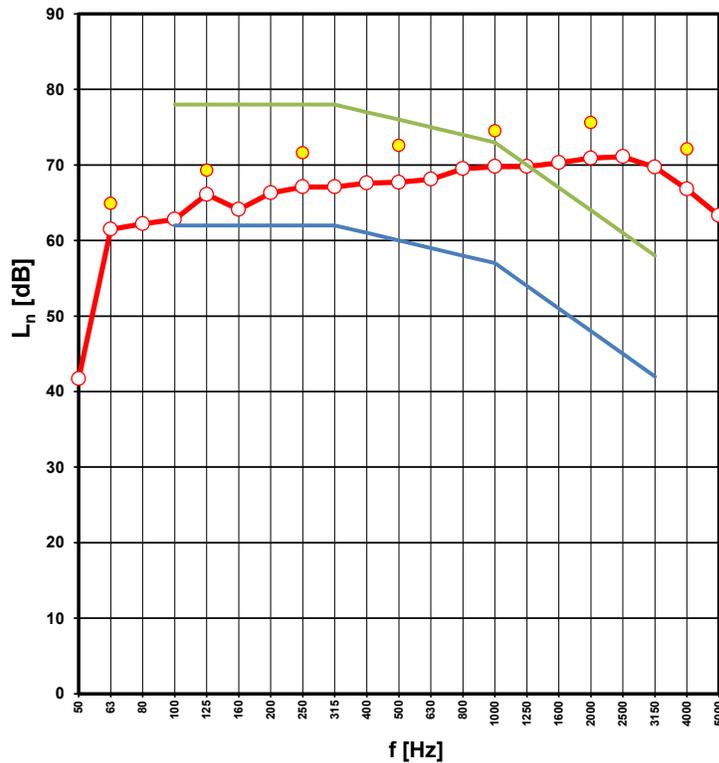
— reference values (according ISO 717-2)  
 — shifted reference values (according ISO 717-2)

f (Hz)	$L_{n,0}$ (dB)	(*)
<b>1/3 octave bands :</b>		
50	41,7	
63	61,5	
80	62,2	
100	62,8	
125	66,1	
160	64,1	
200	66,3	
250	67,1	
315	67,1	
400	67,6	
500	67,7	
630	68,1	
800	69,5	
1000	69,8	
1250	69,8	
1600	70,3	
2000	70,9	
2500	71,1	
3150	69,7	
4000	66,8	
5000	63,3	

<b>octave bands :</b>	
63	64,9
125	69,3
250	71,6
500	72,6
1000	74,5
2000	75,6
4000	72,1

B:  $L_{n<}$  value shown

(\*) b : background noise correction used  
 B : Maximum background noise correction used



Rating according to ISO 717-2

**$L_{n,0,w} (C_{i,0}) = 76 (-11) \text{ dB}$**

Evaluation based on laboratory measurement results obtained in one-third-octave bands by an engineering method

No. of test report: SONI657  
 Date: 21/02/2023

Name of test institute: Daidalos Peutz Laboratory of Acoustics, Hooglede, Belgium  
 Signature: Els Meulemans

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**NOISE LAB**  
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**L<sub>n</sub>**

**NORMALIZED IMPACT SOUND PRESSURE LEVEL in accordance with ISO 10140-3:2010**

**Client:** Belgotex

**Date of test:** 21/02/2023

**Description of the test setup:**

± 15 mm Belgotex: Sheer Bliss - Tufted Cut Pile Broadloom Carpet  
 140 mm heavyweight standard floor = solid reinforced concrete slab

Receiving room volume V: 53,5 m<sup>3</sup>  
 Reference floor area : 12,0 m<sup>2</sup>  
 Tested floor area : 3 x 0,5 m<sup>2</sup>  
 Signal : Standard tapping machine with steel-headed hammers.

— reference values (according ISO 717-2)  
 — shifted reference values (according ISO 717-2)

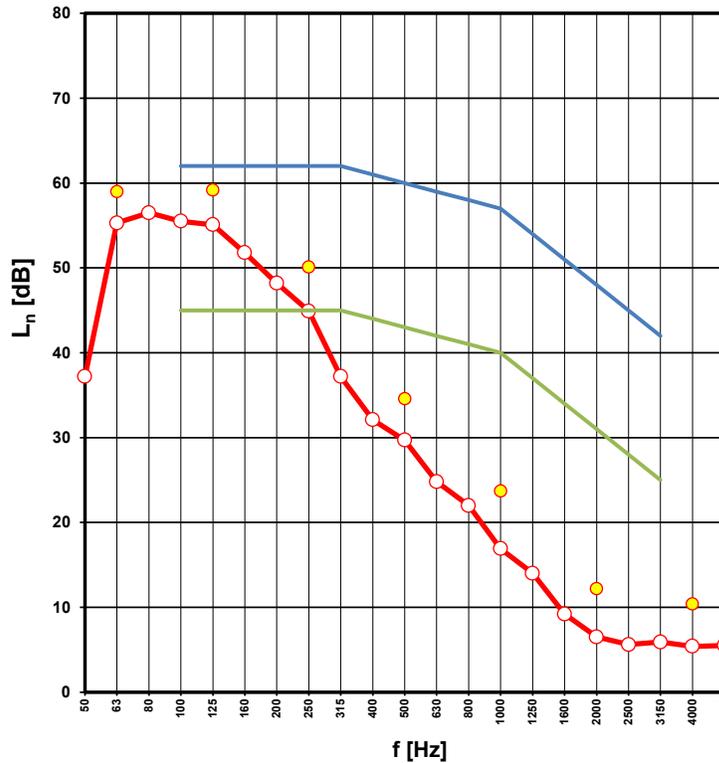
f	L <sub>n</sub>	(*)	(**)
(Hz)	(dB)		
<b>1/3 octave bands :</b>			
50	37,2		
<b>63</b>	<b>55,3</b>		b
80	56,5		
100	55,5		
<b>125</b>	<b>55,1</b>		
160	51,8		
200	48,2		
<b>250</b>	<b>44,9</b>		
315	37,2		
400	32,1		
<b>500</b>	<b>29,7</b>		
630	24,8		
800	22,0	B	
<b>1000</b>	<b>16,9</b>	B	d
1250	14,0	b	d
1600	9,2	b	d
<b>2000</b>	<b>6,5</b>	B	d
2500	5,6	B	d
3150	5,9	B	
<b>4000</b>	<b>5,4</b>	B	
5000	5,5	B	

<b>octave bands :</b>	
<b>63</b>	<b>59,0</b>
<b>125</b>	<b>59,2</b>
<b>250</b>	<b>50,1</b>
<b>500</b>	<b>34,6</b>
<b>1000</b>	<b>23,7</b>
<b>2000</b>	<b>12,2</b>
<b>4000</b>	<b>10,4</b>

B: L<sub>n</sub> < value shown

(\*) b : background noise correction used  
 B : Maximum background noise correction used

(\*\*) d : correction for airborne sound transmission in accordance with ISO10140-3:2021 §5.4  
 D: sound transmission is dominated by airborne sound and impact sound insulation cannot be measured correctly (ISO 10140-3:2021 §5.4)



Rating according to ISO 717-2

**L<sub>n,w</sub> (C<sub>1</sub>) = 43 ( 2 ) dB**

Evaluation based on laboratory measurement results obtained in one-third-octave bands by an engineering method

No. of test report: SONI653  
 Date: 21/02/2023

Name of test institute: Daidalos Peutz Laboratory of Acoustics, Hooglede, Belgium  
 Signature: Els Meulemans

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**REDUCTION OF IMPACT SOUND PRESSURE LEVEL BY FLOOR COVERINGS in accordance with ISO 10140-3**

**Client: Belgotex**

Date of test:

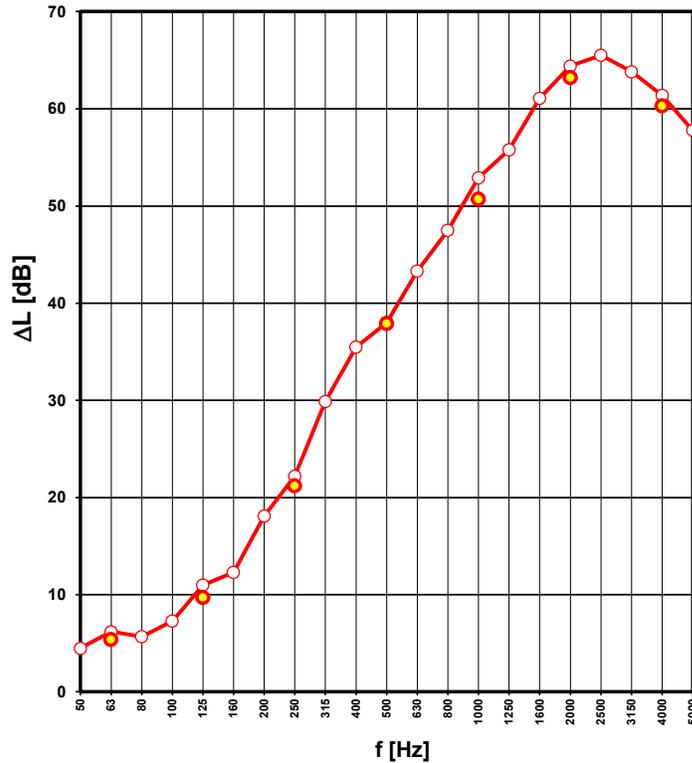
21/02/2023

**Description of the test setup:**

± 15 mm Belgotex: Sheer Bliss - Tufted Cut Pile Broadloom Carpet  
 140 mm heavyweight standard floor = solid reinforced concrete slab

Receiving room volume V: 53,5 m<sup>3</sup>  
 Reference floor area : 12,0 m<sup>2</sup>  
 Tested floor area : 3 x 0,5 m<sup>2</sup>  
 Signal : Standard tapping machine with steel-headed hammers.

f (Hz)	ΔL = L <sub>n,0</sub> - L <sub>n</sub> (dB)
<b>1/3 octave bands : ■</b>	
50	4,5
63	6,2
80	5,7
100	7,3
125	11,0
160	12,3
200	18,1
250	22,2
315	29,9
400	35,5
500	38,0
630	43,3
800	47,5
1000	52,9
1250	55,8
1600	61,1
2000	64,4
2500	65,5
3150	63,8
4000	61,4
5000	57,8
<b>octave bands : ●</b>	
63	5,4
125	9,7
250	21,2
500	37,9
1000	50,7
2000	63,2
4000	60,3



Rating according to ISO 717-2

ΔL<sub>w</sub> (C<sub>i,Δ</sub>) = 32 ( -13 ) dB  
 ΔL<sub>in</sub> = 19 dB

Evaluation based on laboratory measurement results obtained in one-third-octave bands by an engineering method

No. of test report: SONI653 Name of test institute: Daidalos Peutz Laboratory of Acoustics, Hooglede, Belgium  
 Date: 21/02/2023 Signature: Els Meulemans

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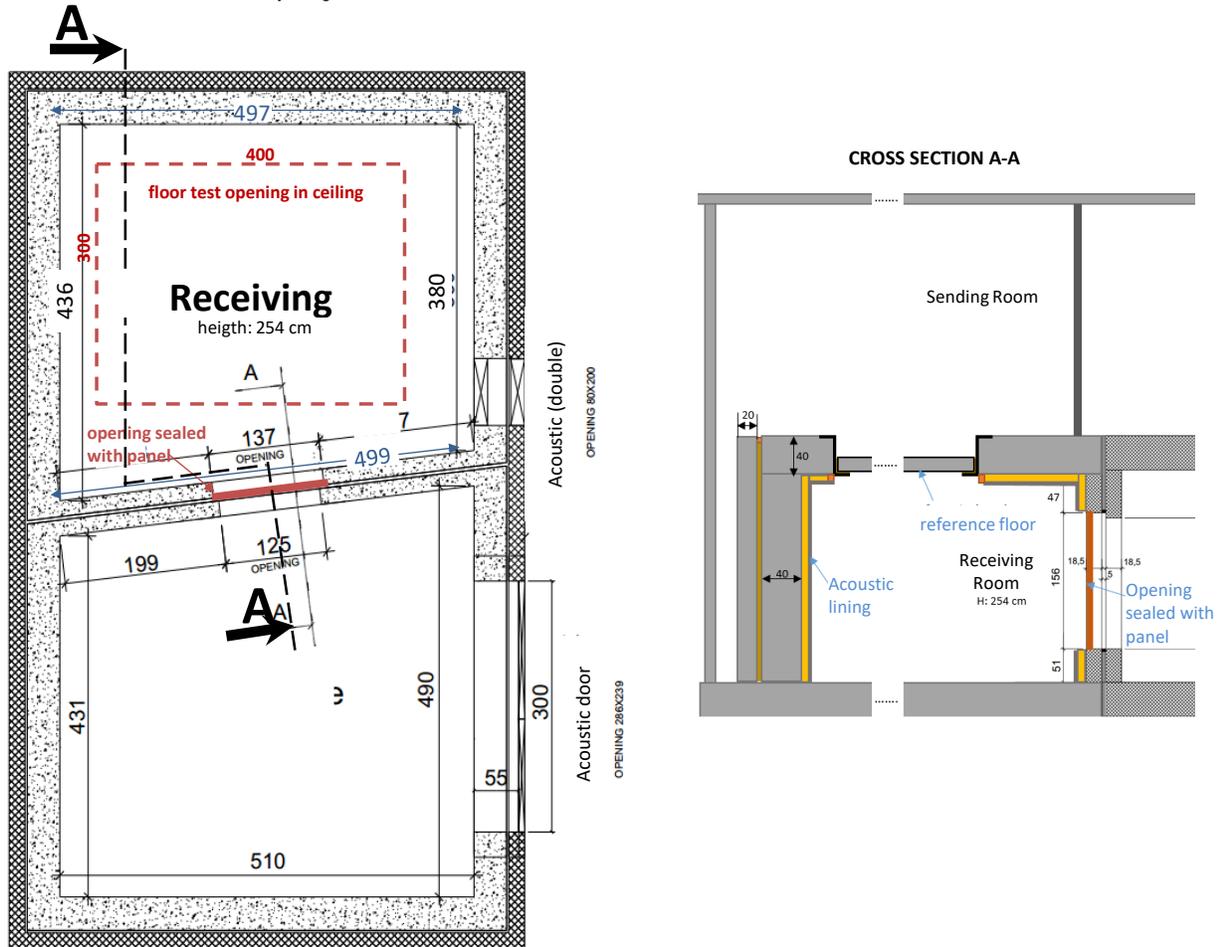
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**ANNEX 1 : Sound insulation test facilities at Daidalos Peutz Laboratory of Acoustics**

Daidalos Peutz Laboratory of Acoustics, Diksmuidesteeweg 17B/1, B-8830 Hooglede, Belgium

The test rooms meet the requirements of ISO 10140-5  
 Both rooms are isolated for vibrations by using a so called room-in-room construction.



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**ANNEX 2: Description test items by manufacturer**

*The test sample description given by manufacturer is checked visually as good as possible by the laboratory.*

*The correspondence between the test element and the commercialized product is the sole responsibility of the manufacturer*

Description of the test element as a layered structure

	Thickness (mm)	$\rho$ (kg/m <sup>3</sup> )	m" (kg/m <sup>2</sup> )	Description of the layer
1	± 15			Belgotex: Sheer Bliss - Tufted Cut Pile Broadloom Carpet heavyweight standard floor = solid reinforced concrete slab
2	140	2300	322	
3				
4				
5				
6				
7				
8				
9				
10				

**Product name: Sheer Bliss**

Sample identification: Tufted Cut Pile Broadloom Carpet Sample (Sample 2)

Dimensions of the carpet samples: 100 cm x 50 cm

Thickness : indicative measurement on the test sample at the laboratory : ± 15 mm

Photo: back side



front side



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**ANNEX 3: Technical sheet**

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*The test sample description given by manufacturer is checked visually as good as possible by the laboratory.  
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More information about the products can be obtained from Belgotex

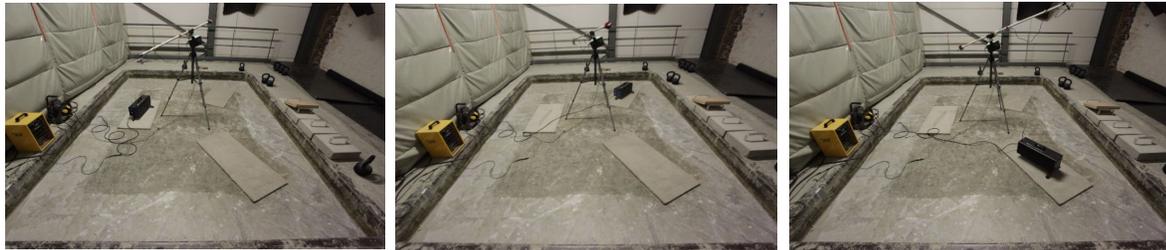
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**ANNEX 4: photographs of the test element or the test arrangement**

*Description of the assembly or drawing or photo*

As the floor can be classified as a 'category I' floor covering, in line with the standard ISO10140-1, three tapping machine positions were tested. Three different samples of the same source were installed onto the reference concrete floor on three positions. The dimensions of the carpet samples each measuring 1000 mm x 500 mm are larger than the minimum sample dimensions (650mm x 350mm) prescribed by the standard ISO10140-1. The same tapping machine positions were used on the uncovered floor. The samples were large enough to support the whole tapping machine.

*Photo test setup: Positions of the tapping machine on the testsamples*



*Photo: hammers of the tapping machine, impacting the testsample*

