Vital Decosterstraat 67A – bus 1

B-3000 Leuven Belgium

VAT: BE 0454.276.239 www.daidalospeutz.be







NBN EN ISO 17025:2017 EA MLA signatory

# NOISE LAB

TEST REPORT Number A-2025LAB-015-L056-45832\_E

Customer: Staenis BV

Nieuwlandstraat 33 9870 Olsene Belgium

Contacts : Client : Tom Verstaen
Noise lab : Gert-Jan Loobuyck

Tests: Laboratory measurement of the improvement of impact sound insulation by a floor covering

on a heavyweight standard floor.

Product name: CircoFloor 200 mm (4P) - Recycork 9 mm - OSB 18 mm

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.

 Date and reference of the request:
 23/01/2025
 2025LAB-015

 Date of receipt of the specimen (s):
 24/06/2025
 SONL056

 Date of tests:
 24/06/2025

 Date of preparation of the test report:
 21/08/2025

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, Laboratory Engineer,

Paul Mees Els Meulemans

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# NOISE LAB TEST REPORT Number A-2025LAB-015-L056-45832\_E

# **MEASURING EQUIPMENT**

# Source signal

Brüel & Kjaer - 4292 : Omni Power Sound Source

Brüel & Kjear - 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: 4

Minimum 0,7m between the different source positions Distances to the board of the floor at least 0.5 m

Random positions and orientation of the tapping machine.

Number of microphone positions for each tapping machine position: 3

Microphone position with a rotating microphone

Number of rotations:3Rotation speed:16 s/trMinimum rotation time:30 s

Just not a rotation angle <10 ° to the chamber surfaces

# 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:53,34 m³Reference floor area:12,00 m²Surface test floor:12,00 m²

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".

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# NOISE LAB TEST REPORT Number A-2025LAB-015-L056-45832 E

# STANDARD METHOD

The normalised impact sound pressure level Ln and the reduction of impact sound pressure level (improvement of impact sound insulation) ΔL were measured according to the standard NBN EN ISO 10140-3:2021. 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<sub>n</sub> 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<sub>n,0</sub> is measured using the identical procedure.
- The normalized impact sound pressure level is calculated according to the following equation:

L <sub>n</sub> =	$L_n = L_i + 10 \log (A/A_0)$		<sub>o</sub> )	[dB]
	met	L <sub>n</sub>	=	The normalized in
		$L_{i}$	=	the energy avera
				under test is exci
		$A_0$	=	the reference equ
		Α	=	the measured eq

- The temperature, relative humidity and static pressure is also measured in the test rooms.
- The improvement ΔL 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:

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

met  $\Delta \mathbf{L}$  = The improvement of the impact sound insulation

 $\mathbf{L}_{\mathsf{n},\mathsf{0}}$  = normalized impact sound pressure level of the bare floor

L<sub>n</sub> = normalized impact sound pressure level of the bare floor with floor covering

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# NOISE LAB TEST REPORT Number A-2025LAB-015-L056-45832\_E

# 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 reduction of impact sound pressure level (improvement of impact sound insulation) by floor coverings 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<sub>n,w</sub> = weighted normalized impact sound pressure level

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

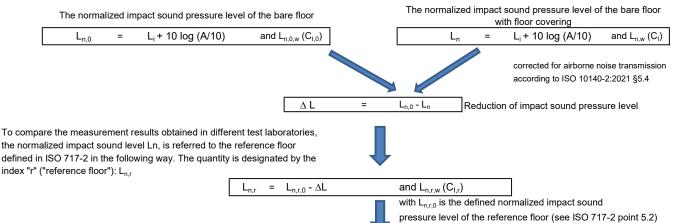
 $C_i$  =  $L_{n,sum}$  - 15 -  $L_{n,w}$  With  $L_{n,sum}$  the summation on an energetic basis for the one-third octave bands in the frequency range 100Hz to 2,5kHz

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

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  $L_{n,w}\left(C_{i}\right)$ 

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



 $\Delta L_{w} = L_{n,r,0,w} - L_{n,r,w} = 78 - L_{n,r,w} \quad \text{with } C_{l,\Delta} = C_{l,r,0} - C_{l,r} = -11 - C_{l,r}$   $\Delta L_{lin} = \Delta L_{w} + C_{l,\Delta}$ 

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# NOISE LAB TEST REPORT Number A-2025LAB-015-L056-45832\_E

# SPECIAL MEASUREMENT CONDITIONS

n/a

# 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 [

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,  $\Delta L_w$ , obained under reproducibility conditions,  $\sigma_R$ , for the single number value, in accordance with ISO 717-2, 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**

Temperature : T = Atmospheric pressure : p = 1 Relative humidity :  $h_r = 1$ 

 Source room
 Receiving room

 T =
  $22.2 \,^{\circ}$ C
  $20.5 \,^{\circ}$ C

 p =
  $1011.1 \,^{\circ}$ hPa
  $1010.6 \,^{\circ}$ hPa

 h<sub>r</sub> =
  $59.1 \,^{\circ}$ %
  $70.1 \,^{\circ}$ %

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# NOISE LAB TEST REPORT Number A-2025LAB-015-L056-45832\_E

# **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

	$L_{n,0}$	$L_n$	ΔL	$L_{n,r,0}$	$L_{n,r}$	
f	bare floor	bare floor	L <sub>n,0</sub> - L <sub>n</sub>	reference floor	reference floor	
		+ floor covering		according ISO 717-2 / 5.2	+ floor covering	
					L <sub>n,r,0</sub> - ∆L	
(Hz)	(dB)	(dB)	(dB)	(dB)	(dB)	
50	43,7	43,5	0,2			
63	57,6	52,8	4,8			
80	64,5	61,1	3,4			
100	63,5	59,2	4,3	67,0	62,7	
125	63,7	57,7	6,0	67,5	61,5	
160	64,4	55,5	8,9	68,0	59,1	
200	66,1	52,4	13,7	68,5	54,8	
250	66,2	50,4	15,8	69,0	53,2	
315	66,1	47,3	18,8	69,5	50,7	
400	66,0	44,7	21,3	70,0	48,7	
500	66,7	43,4	23,3	70,5	47,2	
630	67,2	41,2	26,0	71,0	45,0	
800	69,0	37,2	31,8	71,5	39,7	
1000	69,3	33,6	35,7	72,0	36,3	
1250	70,3	30,7	39,6	72,0	32,4	
1600	70,6	27,6	43,0	72,0	29,0	
2000	69,5	22,1	47,4	72,0	24,6	
2500	69,4	13,7	55,7	72,0	16,3	
3150	68,7	6,1	62,6	72,0	9,4	
4000	66,5	9,4	57,1	1	1	
5000	63,6	7,5	56,1	1	1	
ISO	$L_{n,0,w}$	$L_{n,w}$		$L_{n,r,0,w}$	$L_{n,r,w}$	$\Delta L_w = 78 - L_{n,r,w}$
717-2	76	47		78	50	28 dB
	C <sub>I,0</sub>	C <sub>I</sub>		C <sub>I,r,0</sub>	C <sub>l,r</sub>	$C_{l,\Delta} = C_{l,r,0} - C_{l,r}$
	-11	1		-11	2	-13 dB

 $\Delta L_{lin} = \Delta L_w + C_{l,\Delta}$ 15 dB

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30/06/2025

# NOISE LAB TEST REPORT Number A-2025LAB-015-L056-45832 E

# TEST REPORT NUMB

A 2020LAB 010 2000 40002\_2

Date of test:

L<sub>n,0</sub>

NORMALIZED IMPACT SOUND PRESSURE LEVEL (of standard floor) in accordance with ISO 10140-3:2021

Description of the test setup:

Staenis BV

The base floor used is a 140 mm thick solid reinforced concrete slab.

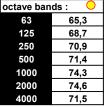
According to ISO 10140-5 Annex C this is the "heavyweight standard floor".

Receiving room volume V: 53,3 m³
Reference floor area: 12,0 m²
Tested floor area: 12,0 m²

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

Signal: Standard tapping machine with steel-headed hammers.

Signai :	Standard tap	ping macnine w
f	L <sub>n,0</sub>	(*)
(Hz)	(dB)	
1/3 octav	ve bands :	
50	43,7	
63	57,6	
80	64,5	
100	63,5	
125	63,7	
160	64,4	
200	66,1	
250	66,2	
315	66,1	
400	66,0	
500	66,7	
630	67,2	
800	69,0	
1000	69,3	
1250	70,3	
1600	70,6	
2000	69,5	·
2500	69,4	
3150	68,7	
4000	66,5	
5000	63,6	



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

(\*) b : background noise correction used

B : Maximum background noise correction used

Rating according to ISO 717-2

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

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

No.of test report: SONL073 Name of test institute: Daidalos Peutz Laboratory of Acoustics, Hooglede, Belgium

Date: 30/06/2025 Signature: Gert-Jan Loobuyck

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# **NOISE LAB TEST REPORT Number** A-2025LAB-015-L056-45832 E

# $L_n$

# NORMALIZED IMPACT SOUND PRESSURE LEVEL in accordance with ISO 10140-3:2021

Client: Staenis BV Date of test: 24/06/2025 Description of the test setup: AGEPAN OSB 3 Ecoboard, 18 mm: ±11.3 kg/m<sup>2</sup> 18 mm CircoFloor system 182 mm: 4-point support (4P) 182 mm infill material: Recycork 9 mm, ±138.4 kg/m³ heavyweight standard floor = solid reinforced concrete slab 140 mm Receiving room volume V: 53,3 m<sup>3</sup> Reference floor area: 12,0 m<sup>2</sup> reference values (according ISO 717-2) Tested floor area: 12.0 m<sup>2</sup> shifted reference values (according ISO 717-2) Signal: Standard tapping machine with steel-headed hammers. 80 f  $L_n$ (\*) (\*\*) (Hz) (dB) 70 1/3 octave bands 43,5 63 52,8 80 61,1 60 100 59.2 57,7 160 55,5 50 200 52,4 250 50,4 47,3 400 44,7 40 500 43,4 630 41,2 30 1000 33,6 1250 30,7 1600 27,6 2000 22,1 20 d 2500 13.7 h 3150 6,1 В d 4000 9,4 В 10 7.5 В 5000 octave bands : 61,8 125 62,5 250 - 250 - 315 - 400 -160 630 800 1000 250 55,3 500 48,1 f [Hz] 1000 39,4 2000 28,8 4000 12,6 B: L<sub>n</sub>=< value shown (\*) b : background noise correction used (\*\*) d: correction for airborne sound transmission in accordance with ISO10140-3:2021 §5.4 B: Maximum background noise correction used 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 (1)  $L_{n,w}$  ( $C_i$ ) 47 dΒ Evaluation based on laboratory measurement results obtained in one-third-octave bands by an engineering method Daidalos Peutz Laboratory of Acoustics, Hooglede, Belgium No.of test report: SONL056 Name of test institute: Date: 24/06/2025 Signature: Gert-Jan Loobuyck

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NOISE LAB
TEST REPORT Number A-2025LAB-015-L056-45832 E

 $\Delta \mathsf{L}$ 

REDUCTION OF IMPACT SOUND PRESSURE LEVEL BY FLOOR COVERINGS in accordance with ISO 10140-3:2021

Client: Staenis BV Date of test: 24/06/2025

Description of the test setup:

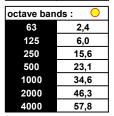
18 mm AGEPAN OSB 3 Ecoboard, 18 mm: ±11.3 kg/m²
182 mm CircoFloor system 182 mm: 4-point support (4P) infill material: Recycork 9 mm, ±138.4 kg/m³

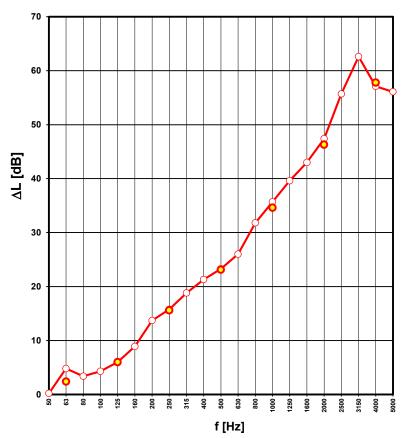
140 mm heavyweight standard floor = solid reinforced concrete slab

 $\begin{tabular}{lll} Receiving room volume $V$: & 53,3 m³ \\ Reference floor area : & 12,0 m² \\ Tested floor area : & 12,0 m² \\ \end{tabular}$ 

Signal: Standard tapping machine with steel-headed hammers.

Orginal .	Otariaara tapp
f	ΔL
/U-\	=L <sub>n,0</sub> - L <sub>n</sub>
(Hz) 1/3 octave	(dB)
50	0,2
63	4,8
80	3,4
100	4,3
125	6,0
160	8,9
200	I 13,7
250	15,8
315	18,8
400	21,3
500	23,3
630	26.0
800	31,8
1000	35,7
1250	39,6
1600	39,6
2000	47,4
2500	55,7
3150	_62,6
4000	57,1
5000	56,1





Rating according to ISO 717-2

 $\Delta L_{\mathbf{w}} (\mathbf{C}_{\mathbf{i},\Delta}) = 28 \quad (-13) \quad dB$   $\Delta L_{\text{lin}} = 15 \quad dB$ 

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

No.of test report: SONL056 Name of test institute: Daidalos Peutz Laboratory of Acoustics, Hooglede, Belgium Date: Signature: Gert-Jan Loobuyck

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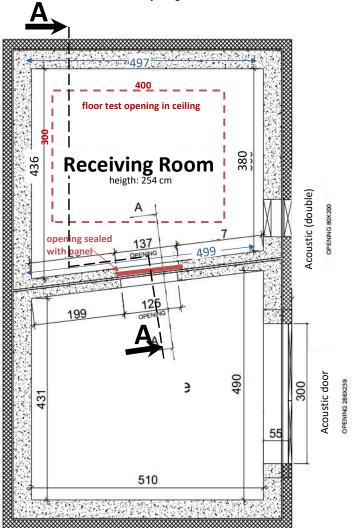
# NOISE LAB TEST REPORT Number A-2025LAB-015-L056-45832\_E

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

# Daidalos Peutz Laboratory of Acoustics, Diksmuidesteenweg 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.



# Sending Room Sending Room Receiving Room Room Receiving Receiving Room Receiving Receivin

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### **NOISE LAB TEST REPORT Number** A-2025LAB-015-L056-45832 E

# ANNEX 2: Description test items by manufacturer

The test sample description given by the manufacturer is checked visually as good as possible by the laboratory. Sampling was not carried out by the laboratory; therefore, the results in this report apply solely to the sample as received. Responsibility for ensuring that the tested product is equivalent to the commercialized product rests entirely with the applicant.

Description of the test element as a lavered structure

	Thickness	ρ (kg/m³)	m" (kg/m²)	
Layer	(mm)	P (Ng/111 /	(1.6/ /	Description of the layer
1	18	625,6*	11,3*	AGEPAN OSB 3 Ecoboard, 18 mm: ±11.3 kg/m²
2a	182		10	CircoFloor system 182 mm: 4-point support (4P)
2b		138,4*		infill material: Recycork 9 mm, ±138.4 kg/m³
3	140	2300	322	heavyweight standard floor = solid reinforced concrete slab

Height of the Staenis floor assembly:

200 mm 340 mm \* indicative measurement in the laboratory

Total height inluding 140 mm concrete base floor:

# CircoFloor 200 mm (4P) - Recycork 9 mm - OSB 18 mm

# Layer 1:

OSB 18 mm: Indicative surface mass density (laboratory measurement): ±11.3 kg/m²

Type: AGEPAN OSB 3 Ecoboard (mechanically fixed to the CircoFloor system using ≈ 13 screws/ m²)

CircoFloor System 182 mm:

Composed of cup-shaped panels interlocked in opposing orientations, forming a single structural panel with a total height of 88 mm.

Material: Polypropylene (PP)

The CircoFloor system was leveled using the 147 mm height-adjustable (PP) supports ø28 mm,

screwed in the structural panels, to achieve a total system height of 182 mm.

The supports are arranged in a 4-point support configuration, positioned at the square intersections (39 cm c/c).

All adjustment supports are in direct mechanical contact with the laboratory base floor.

Total contact point connections with the test floor (3000 mm x 4000 mm): 98

This corresponds to 88 primary support points at the square intersections (≈7 supports/m²)

plus 10 additional supports along one longitudinal side of the test floor to provide extra support on that side.

Locking PP screw 42 mm (green): to secure the interlocked cup-shaped panels. This screw does not make contact with the base floor.

# Layer 2b:

Infill material: Recycork 9 mm

Type: Granular insulation material composed of recycled cork.

Granule size: 0.5 mm - 9 mm.

Indicative bulk density (laboratory measurement): ±138.4 kg/m³.

Decoupling (contact with structural elements):

A resilient edge strip (5 mm thick, 200 mm high) was bonded to the vertical edges of the test opening,

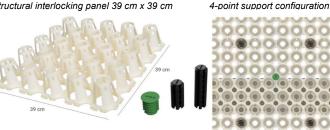
to prevent the Staenis floor assembly making rigid contact with the surrounding structure.

# Sealing:

A flexible sealant (Perennator) was used to seal the perimeter joint (±5 mm) between the 18 mm OSB top plate and the surrounding structure.

More detailed information regarding the installation method of the CircoFloor system can be obtained from Staenis.

structural interlocking panel 39 cm x 39 cm



example/section of the CircoFloor system with OSB covering



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## **NOISE LAB TEST REPORT Number** A-2025LAB-015-L056-45832\_E

# **ANNEX 3: Technical sheet**

The test sample description given by the manufacturer is checked visually as good as possible by the laboratory. Sampling was not carried out by the laboratory; therefore, the results in this report apply solely to the sample as received. Responsibility for ensuring that the tested product is equivalent to the commercialized product rests entirely with the applicant.

Further product information can be obtained from Staenis BV **Daidalos Peutz** bouwfysisch ingenieursbureau Vital Decosterstraat 67A – bus 1 B-3000 Leuven Belgium

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# NOISE LAB TEST REPORT Number A-2025LAB-015-L056-45832\_E

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

Description of the assembly or drawing or photo

The assembly was carried out by the manufacturer, Staenis, fully in accordance with the manufacturer's instructions.

The correct height of the CircoFloor system was set using a line laser and a reference point to ensure proper adjustment.

The laboratory verified whether the specified floor build-up height was correctly applied.

The floor was classified according to annex H.2.2, ISO 10140-1: Category II - Large specimen.

This category includes floor coverings of which at least one constituent is rigid.

The floorcovering measures ±3.0m x 4.0 m and covers at least 10 m² with a smaller dimension of at least 2.3m.

The tapping machine was placed in 4 different positions on the test floor.

The same tapping machine positions were used on the uncovered concrete reference floor.

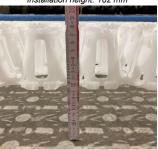
Installation of the CircoFloor interlocking panels



Height-adjustable (PP) supports



Installation height: 182 mm



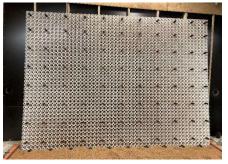
Infill material: Recycork 9 mm



4-point support configuration



Backside of the full CircoFloor structure (12m²) with 98 supports



Measurements: four tapping machine positions on the test floor











