

ONEFLOR USA ACOUSTICAL PERFORMANCE TEST REPORT

SCOPE OF WORK

ASTM E90, ASTM E492, AND ASTM E2179 TESTING ON 3.5 MM ONEFLOR SETAGRIP/SETADB

SPECIMEN TYPE Concrete Slab - 152 mm (6")

REPORT NUMBER N1333.03-113-11-R1

TEST DATE

12/11/21

 ISSUE DATE
 REVISED DATE

 03/29/22
 03/30/22

RECORD RETENTION END 12/11/25

PAGES

17

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TEST REPORT FOR ONEFLOR USA

Report No.: N1333.03-113-11-R1 Date: 03/30/22

REPORT ISSUED TO

ONEFLOR USA

3011 Crossbrook Court Katy, Texas 77450

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted to perform testing in accordance with ASTM E90, ASTM E492, AND ASTM E2179 on 3.5 mm OneFlor Setagrip/SetaDB. This report is a reissue in the name of OneFlor USA through written authorization from the original report holder. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted in the VT test chambers at Intertek B&C located in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

SUMMARY OF TEST RESULTS

DATA FILE NO.	N1333.01
SERIES/MODEL:	3.5 mm OneFlor Setagrip/SetaDB
STC	52
IIC	56
ΔΙΙΟ	23
HIIC	61
ΔΗΙΙΟ	32

Daniel B. Mohler	COMPLETED BY:	Jordan Strybos
Project Lead - Acoustical		Engineer, Team Lead -
Testing	TITLE:	Acoustical Testing
-		
	SIGNATURE:	
03/30/22	DATE:	03/30/22
	Project Lead - Acoustical Testing	Project Lead - Acoustical Testing TITLE: SIGNATURE:

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SECTION 3 TEST METHODS

The specimen was evaluated in accordance with the following:

ASTM E90-09 (2016), Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions

ASTM E413-16, Classification for Rating Sound Insulation

ASTM E492-09(2016)e1, Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine

ASTM E2179-21, Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors

ASTM E989-21, Classification for Determination of Impact Insulation Class (IIC)

ASTM E2235-04 (2020), Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods

ASTM E3222-20, Standard Classification for Determination of High-Frequency Impact Sound Ratings

SECTION 4

MATERIAL SOURCE/INSTALLATION

The full test specimen was assembled on the day of testing by B&C. All materials provided by the original client were installed on an existing B&C assembly (Concrete Slab - 152 mm (6")) utilizing B&C-supplied materials. The assembly was installed in a steel test frame which was installed into the opening between the source and receive rooms in the test chamber. The test frame was isolated from the structure with dense neoprene gasket.

The total weight of the floor/ceiling assembly was 4067.8 kg / 8968.1 lbs. B&C will store samples of the test specimen for four years. Photographs of the test specimen are included in the report. A drawing of the test specimen is included in the report.

This report is reissued in the name of OneFlor USA through written authorization from the original report holder. The original Report No. is N1333.01-113-11.

B&C will service this report for the entire test record retention period. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained by B&C for the entire test record retention period.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.



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SECTION 5

EQUIPMENT

INSTRUMENT	MANUFACTURER	MODEL	DESCRIPTION	ASSET #	CAL DA	TE
2-Channel Analog Input	National Instruments	NI 9250	2-Channel Analog Input	INT02572	05/21	*
2-Channel Analog Input	National Instruments	NI 9250	2-Channel Analog Input	INT02574	05/21	*
2-Channel Analog Input	National Instruments	NI 9250	2-Channel Analog Input	INT02575	05/21	*
2-Channel Analog Input	National Instruments	NI 9250	2-Channel Analog Input	INT02576	05/21	*
2-Channel Analog Input	National Instruments	NI 9250	2-Channel Analog Input	INT02577	05/21	*
2-Channel Analog Input	National Instruments	NI 9250	2-Channel Analog Input	INT02578	05/21	*
2-Channel Analog Output	National Instruments	NI 9260	2-Channel Analog Input	INT02573	05/21	*
Microphone Calibrator	Norsonic	34093	Acoustical Calibrator	65105	10/21	•
Receive Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	63745	09/21	
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	63747	07/21	
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	65968	01/21	
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	INT01089	02/21	
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	INT00652	02/21	
Receive Room Environmental Indicator	Comet	T7510	Temperature and Humidity Transmitter	63810 63811	10/21 10/21	
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	65969	04/21	
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	63742	03/21	
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	63741	07/21	
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	63740	04/21	
Source Room Microphone	PCB Electronics	378C20	Microphone and Preamplifier	63739	04/21	
Source Room Environmental Indicator	Comet	T7510	Temperature and Humidity Transmitter	63812	812 10/21	
Tapping Machine	Norsonic	Nor277	Tapping Machine	INT00936	02/21	

* The calibration frequency for this equipment is every two years per the manufacturer's recommendation.

VT RECEIVE ROOM VOLUME	158.86 m³ (5610.1 ft³)
VT SOURCE ROOM VOLUME	190 m³ (6709.79 ft³)

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY	
Cody R. Snyder	Intertek B&C	
Jordan Strybos	Intertek B&C	



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SECTION 7 TEST PROCEDURE

The microphones were calibrated before conducting the tests. The air temperature and relative humidity conditions were monitored and recorded during all measurements. The average temperature and humidity of both the source and receive rooms are listed in Sections 10 and 11. The maximum and minimum temperatures and humidities of the receive room from the duration of the test are listed in Sections 12 through 15.

The airborne transmission loss test was conducted in accordance with the ASTM E90 test method using the single direction method. Two background noise sound pressure level and five sound absorption measurements were conducted at each of five microphone positions. Two sound pressure level measurements were made simultaneously in both rooms, at each of five microphone positions.

The impact sound transmission test was conducted in accordance with the ASTM E492 test method. Two background noise sound pressure level, two sound pressure level measurements with the tapping machine operating at each position specified by ASTM E492, and five sound absorption measurements were conducted at each of five microphone positions.

The delta impact insulation test was conducted in accordance with ASTM E2179 test method. In addition to the impact sound transmission test, two sound pressure level measurements with the tapping machine operating at each position specified by ASTM E492 with only the concrete slab installed were conducted at each of five microphone positions.

Detailed test procedures, data for flanking limit tests, repeatability measurements, and reference specimen tests are available upon request.

SECTION 8

TEST CALCULATIONS

The STC (Sound Transmission Class), IIC (Impact Insulation Class), HIIC (High-Frequency Impact Insulation Class), and Δ IIC (Delta Impact Insulation Class) ratings were calculated in accordance with ASTM E413, ASTM E989, ASTM E3222, and ASTM E2179, respectively.



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SECTION 9

TEST SPECIMEN DESCRIPTION

MATERIAL	Dimensions (mm/inch)	Thickness (mm/inch)	MANUFACTURER AND SERIES	QUANTITY	AVERAGE WEIGHT		
Flooring	1219.2 by 117.8 48 by 4.6	3.5 / 0.14	OneFlor Setagrip/SetaDB	10.98 m² 118.19 ft²	4.29 kg/m ² 0.88 lb/ft ²		
	Note: Loose laid						
	3023 by 3632 119 by 143	152.4 / 6	5000 PSI	10.98 m² 118.19 ft²	366.18 kg/m ² 75 lb/ft ²		
Concrete Slab	Note: Installed in a test frame flush to the source room. Mats of #5 reinforcing bars were placed 25.4 mm from both the top and bottom of the slab, with bars spaced on 305 mm centers in both directions. No noticeable shrinkage or cracking was visible on the specimen.						



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SECTION 10

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS

TEST DATE DATA FILE NO.	12/11/2021 N1333.01				ACCREDITED		
CLIENT	OneFlor USA						
DESCRIPTION	3.5 mm (0.14") Concrete Slab	3.5 mm (0.14") OneFlor Setagrip/SetaDB Flooring, 152.4 mm (6") 5000 PSI					
SPECIMEN AREA	10.98 m²	Receive Temp.	20.7°C (69.2°F)	Source Temp.	17.5°C (63.5°F)		
TECHNICIAN	CRS	Receive Humidity	58%	Source Humidity	58%		

	BACKGROUND		SOURCE	RECEIVE	SPECIMEN	95%	NUMBER
FREQ	SPL	ABSORPTION	SPL	SPL	TL	CONFIDENCE	OF
(Hz)	(dB)	m²	(dB)	(dB)	(dB)	LIMIT	DEFICIENCIES
50	31.1	19.7	94	55	38	3.2	-
63	25.2	16.6	92	55	37	5.3	-
80	27.4	13.7	91	58	33	2.7	-
100	20.2	9.6	88	52	38	1.9	-
125	20.9	8.3	91	52	41	2.5	0
160	19.1	8.4	89	52	39	1.6	0
200	16.4	9.5	89	51	39	1.5	3
250	15.3	9.1	95	52	44	1.5	1
315	16.8	8.7	97	51	47	1.3	1
400	14.4	8.2	96	50	47	0.8	4
500	12.8	7.5	96	48	49	0.8	3
630	13.6	7.5	97	48	51	0.7	2
800	14.3	7.6	97	47	51	0.6	3
1000	17.3	7.7	97	47	51	0.6	4
1250	14.5	7.8	97	45	53	0.7	3
1600	12.7	8.1	97	40	58	0.5	0
2000	11.3	8.8	96	34	63	0.8	0
2500	10.3	9.8	95	30	67	0.6	0
3150	9.2	10.3	98	29	71	0.9	0
4000	9.2	11.6	99	27	73	1.2	0
5000	9.4	13.2	98	22	75	1.3	-
6300	10.1	16.3	92	12	79	0.9	-
8000	10.7	20.6	91	11	79	0.8	-
10000	11.4	20.6	86	9	74	1.0	-
STC Rati	ng 52	(Sound Transm	ission Class)	Sum	of Deficiencies	24

Notes:

1) Receive Room levels less than 5 dB above the Background levels are highlighted in yellow.

2) Specimen TL levels listed in red are potentially limited by the laboratory flanking limit.

3) Specimen TL levels listed in *blue* indicate the lower limit of the transmission loss.

4) Specimen TL levels listed in green indicate that there has been a filler wall correction applied



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Testing Laboratory

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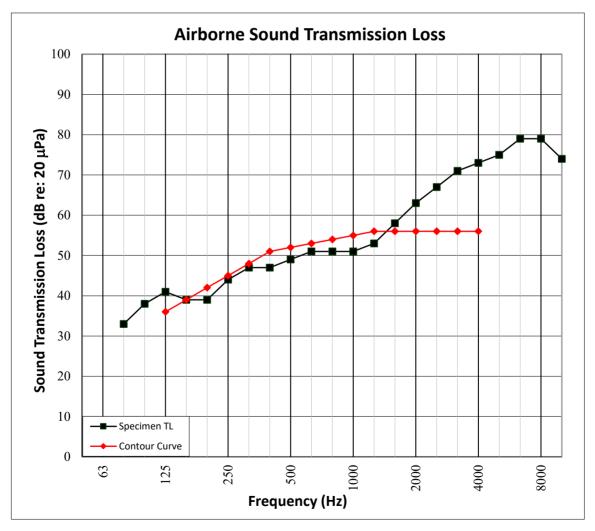
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SECTION 11

 TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS GRAPH
 Image: Constraint of the second sec

	Concrete Slab				
SPECIMEN AREA	10.98 m²	Receive Temp.	20.7°C (69.2°F)	Source Temp.	17.5°C (63.5°F)
TECHNICIAN	CRS	Receive Humidity	58%	Source Humidity	58%





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SECTION 12

TEST RESULTS - IMPACT SOUND TRANSMISSION

TECHNICIAN	CRS	Max. Humidity	59%	Min. Humidity	57%		
SPECIMEN AREA	10.98 m²	Maximum Temp.	20.8°C (69.4°F)	Minimum Temp.	20.6°C (69°F)		
	Concrete Slab)					
DESCRIPTION		3.5 mm (0.14") OneFlor Setagrip/SetaDB Flooring, 152.4 mm (6") 5000 PSI					
CLIENT	OneFlor USA	OneFlor USA					
DATA FILE NO.	N1333.01				ACCREDITE		
TEST DATE	12/11/2021						

FREQ	BACKGROUND SPL	ABSORPTION	NORMALIZED IMPACT SP	L 2005 CONFIDENCE	NUMBER OF
(Hz)	(dB)	m²	(dB)	LIMIT	DEFICIENCIES
80	25.9	13.6	56	2.3	-
100	19.6	9.9	54	0.9	0
125	20.9	8.3	57	1.2	1
160	18.5	7.8	61	0.9	5
200	15.1	9.4	64	0.6	8
250	15.0	9.5	62	0.6	6
315	17.2	9.0	62	0.7	6
400	15.1	7.8	58	0.6	3
500	13.4	7.6	54	0.7	0
630	14.3	7.3	52	0.5	0
800	15.4	7.5	48	0.7	0
1000	15.4	7.6	44	0.5	0
1250	14.6	7.7	40	0.5	0
1600	13.9	8.1	37	0.6	0
2000	12.4	8.8	30	0.7	0
2500	10.8	9.7	23	1.0	0
3150	9.6	10.2	15	1.1	0
4000	9.4	11.4	9	0.7	-
5000	9.4	13.0	9	0.9	-
6300	10.1	16.2	10	0.9	-
8000	10.7	20.7	12	0.9	-
10000	11.4	20.7	12	1.0	-
IIC Ratii	ng 56	(Impact Insulat	tion Class)	Sum of Deficiencies	29

Notes: Receive Room levels less than 5 dB above the Background levels are highlighted in yellow.



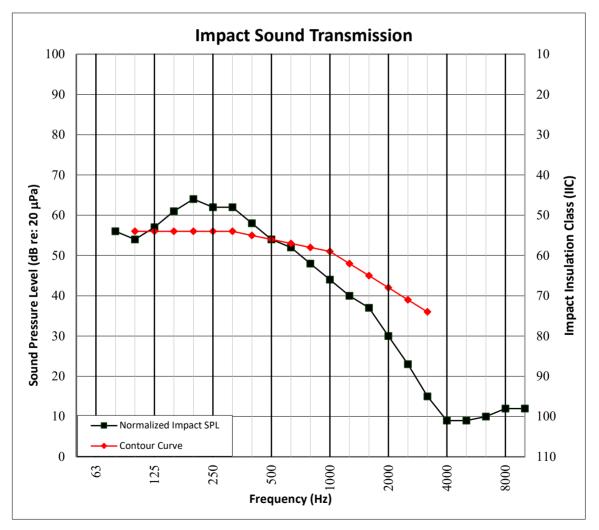
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SECTION 13

TEST RESULTS - IMPACT SOUND TRANSMISSION GRAPH

TEST DATE	12/11/2021						
DATA FILE NO.	N1333.01	1333.01					
CLIENT	OneFlor USA						
DESCRIPTION	3.5 mm (0.14") Concrete Slab	3.5 mm (0.14") OneFlor Setagrip/SetaDB Flooring, 152.4 mm (6") 5000 PSI Concrete Slab					
SPECIMEN AREA	10.98 m²	Maximum Temp.	20.8°C (69.4°F)	Minimum Temp.	20.6°C (69°F)		
TECHNICIAN	CRS	Max. Humidity	59%	Min. Humidity	57%		





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SECTION 14

TEST RESULTS - HIGH-FREQUENCY IMPACT SOUND TRANSMISSION

TECHNICIAN	CRS	Max. Humidity	59%	Min. Humidity	57%		
SPECIMEN AREA	10.98 m²	Maximum Temp.	20.8°C (69.4°F)	Minimum Temp.	20.6°C (69°F)		
	Concrete Slab	Concrete Slab					
DESCRIPTION	. ,	.5 mm (0.14") OneFlor Setagrip/SetaDB Flooring, 152.4 mm (6") 5000 PSI					
CLIENT	OneFlor USA				Testing Laboratory		
DATA FILE NO.	N1333.01				ACCREDITED		
TEST DATE	12/11/2021	12/11/2021					
	_						

FREQ	BACKGROUND SPL	ABSORPTION	NORMALIZED IMPACT SPL	95% CONFIDENCE	NUMBER OF
(Hz)	(dB)	m²	(dB)	LIMIT	DEFICIENCIES
400	15.1	7.8	58	0.6	8.1
500	13.4	7.6	54	0.7	5.1
630	14.3	7.3	52	0.5	3.7
800	15.4	7.5	48	0.7	1.2
1000	15.4	7.6	44	0.5	0.0
1250	14.6	7.7	40	0.5	0.0
1600	13.9	8.1	37	0.6	0.0
2000	12.4	8.8	30	0.7	0.0
2500	10.8	9.7	23 1.0		0.0
3150	9.6	10.2	15 1.1		0.0
HIIC Rati	ing 61	(High-Frequenc	y Impact Insulation Class)	Sum of Deficiencies	18.0

Notes: Receive Room levels less than 5 dB above the Background levels are highlighted in yellow.



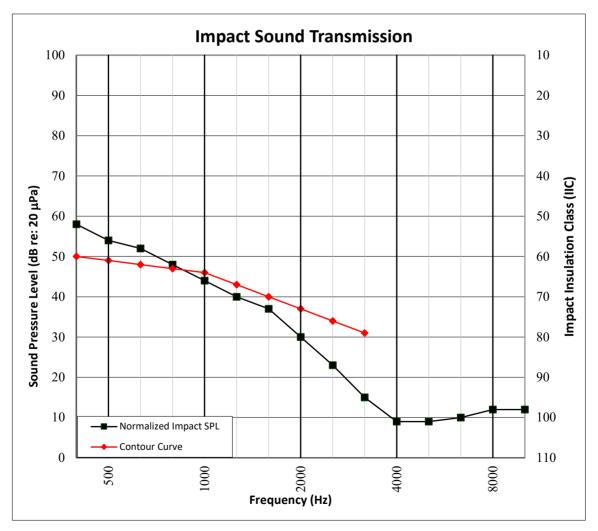
TEST REPORT FOR ONEFLOR USA

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SECTION 15

TEST RESULTS -HIGH-FREQUENCY IMPACT SOUND TRANSMISSION GRAPH

TEST DATE	12/11/2021	2/11/2021						
DATA FILE NO.	N1333.01				ACCREDITED			
CLIENT	OneFlor USA				Testing Laboratory			
DESCRIPTION	3.5 mm (0.14") Concrete Slab	8.5 mm (0.14") OneFlor Setagrip/SetaDB Flooring, 152.4 mm (6") 5000 PSI Concrete Slab						
SPECIMEN AREA	10.98 m²	Maximum Temp.	20.8°C (69.4°F)	Minimum Temp.	20.6°C (69°F)			
TECHNICIAN	CRS	Max. Humidity	59%	Min. Humidity	57%			





TEST REPORT FOR ONEFLOR USA

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SECTION 16

TEST RESULTS - DELTA IMPACT INSULATION

TEST DATE	12/11/2021						
DATA FILE NO.	N1333.01						
					ACCREDITE		
CLIENT	OneFlor USA				Testing Laboratory		
DESCRIPTION		3.5 mm (0.14") OneFlor Setagrip/SetaDB Flooring, 152.4 mm (6") 5000 PSI Concrete Slab					
SPECIMEN AREA	10.98 m²	Maximum Temp.	20.8°C (69.4°F	Minimum Temp.	20.6°C (69°F)		
TECHNICIAN	CRS	Max. Humidity	59%	Min. Humidity	57%		

FREQ	BACKGROUND SPL	ABSORPTION	NORMALIZED IMPACT SPL	95% CONF	NORMALIZEI IMPACT SPL)5% CONF	RESULT ARRAY	NUMBER OF DEFI-
(Hz)	(dB)	m²	BARE (dB)	LIMIT	SPEC (dB)	L	IMIT.	L _{ref,c}	CIENCIES
100	19.6	9.9	54.8	1.2	54.1	1	l.1	66.0	5
125	20.9	8.3	58.0	1.5	56.6	1	L.5	66.0	5
160	18.5	7.8	63.6	1.3	61.4	1	l.1	66.0	5
200	15.1	9.4	66.7	0.8	63.9	C).8	66.0	5
250	15.0	9.5	65.7	0.8	61.6	C).8	65.0	4
315	17.2	9.0	67.9	0.8	61.5	C).9	63.0	2
400	15.1	7.8	67.9	0.9	58.1	C).8	60.0	0
500	13.4	7.6	68.4	0.7	54.1	C).9	56.0	0
630	14.3	7.3	70.3	0.5	51.7	C).7	52.0	0
800	15.4	7.5	70.6	0.6	48.2	C).8	49.0	0
1000	15.4	7.6	71.5	0.5	43.9	C).6	44.0	0
1250	14.6	7.7	71.8	0.5	40.3	C).6	41.0	0
1600	13.9	8.1	71.5	0.7	36.7	C).7	37.0	0
2000	12.4	8.8	71.2	0.9	30.5	C).8	31.0	0
2500	10.8	9.7	70.0	1.0	23.4	1	l.2	25.0	0
3150	9.6	10.2	68.8	1.3	15.2	1	L.4	18.0	0
∆IIC Rat	MIC Rating 23 (Delta Impact Insulation Class) Sum of Deficiencies					26			
ΔHIIC Ra	ating 32	(Delta High-F	requency Impact	t Insula	tion Class)	Sui	m of [Deficiencies	19

Notes: Receive Room levels less than 5 dB above the Background levels are highlighted in yellow.



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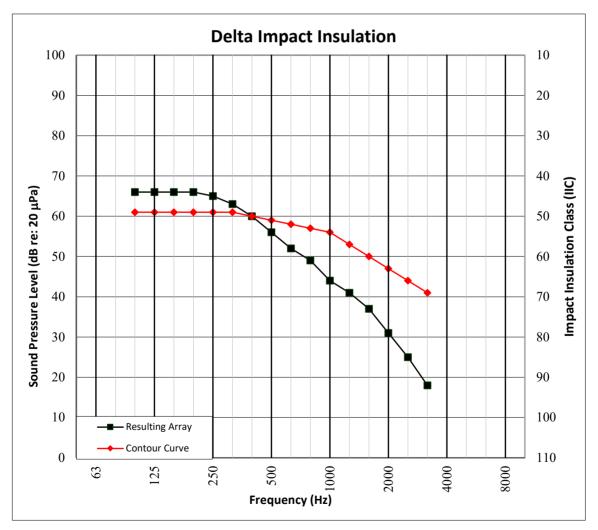
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SECTION 17

TEST RESULTS - DELTA IMPACT INSULATION GRAPH

TEST DATE	12/11/2021	2/11/2021						
DATA FILE NO.	N1333.01				ACCREDITED			
CLIENT	OneFlor USA				Testing Laboratory			
DESCRIPTION	3.5 mm (0.14") Concrete Slab	B.5 mm (0.14") OneFlor Setagrip/SetaDB Flooring, 152.4 mm (6") 5000 PSI Concrete Slab						
SPECIMEN AREA	10.98 m²	20.6°C (69°F)						
TECHNICIAN	CRS	Max. Humidity	59%	Min. Humidity	57%			





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SECTION 18

PHOTOGRAPHS



Photo No. 1 Source Room View of Test Specimen Installation



Photo No. 2 Receive Room View of Test Specimen Installation



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SECTION 19

DRAWING

1 • . . , 2 122 5

1-Floor Topping 2-Concrete Slab



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SECTION 20

REVISION LOG

REVISION #	DATE	PAGES	DESCRIPTION
			Original Report Issue - Reissue of Report No.
RO	03/29/22	N/A	N1333.01-113-11 in the name of OneFlor
			USA.
			Corrected series/model from
R1	03/30/22	1, 2	3.5 mm OneFlor Setagrip/SetaD8 to
			3.5 mm OneFlor Setagrip/SetaDB