

ONEFLOR USA ACOUSTICAL PERFORMANCE TEST REPORT

SCOPE OF WORK ASTM E492 TESTING ON 3.5 MM ONEFLOR SETAGRIP/SETADB

SPECIMEN TYPE 152 mm Concrete Slab with Suspended Ceiling

REPORT NUMBER M4989.03-113-11-R0

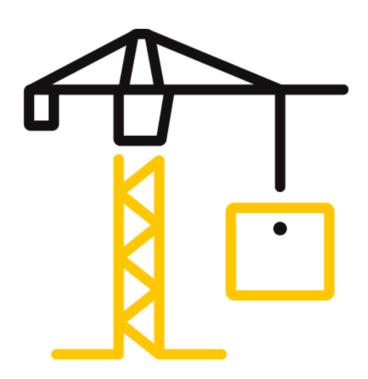
TEST DATE 06/17/21

ISSUE DATE 03/29/22

RECORD RETENTION END 06/17/25

PAGES 11

DOCUMENT CONTROL ATI 00629 (03/21/18) RTTDS-R-AMER-Test-2844 © 2017 INTERTEK





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TEST REPORT FOR ONEFLOR USA

Report No.: M4989.03-113-11-R0 Date: 03/29/22

REPORT ISSUED TO

ONEFLOR USA

3011Crossbrook Court Katy, Texas 77450

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted to perform testing in accordance with ASTM E492 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.	M4989.02
SERIES/MODEL:	3.5 mm OneFlor Setagrip/SetaDB
IIC	67

B. Mohler C	OMPLETED BY:	Jordan Strybos
t Lead - Acoustical		Engineer, Team Lead -
g T	ITLE:	Acoustical Testing
SI	IGNATURE:	
/22 D	DATE:	03/29/22
	t Lead - Acoustical g T	t Lead - Acoustical g TITLE: SIGNATURE:

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SECTION 3 TEST METHODS

The specimen was evaluated in accordance with the following:

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

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

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 (152 mm Concrete Slab with Suspended Ceiling) 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 4219.8 kg. 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 M4989.02-113-11.

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.



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SECTION 5

EQUIPMENT

INSTRUMENT	MANUFACTURER	MODEL	DESCRIPTION	ASSET #	CAL DAT	ΓE
Data Acquisition Unit	National Instruments	PXI-4462	Data Acquisition Card	63763-1	10/20	*
Data Acquisition Unit	National Instruments	PXI-4462	Data Acquisition Card	63763-4	10/20	*
Data Acquisition Unit	National Instruments	PXI-4462	Data Acquisition Card	65124	02/21	*
Microphone Calibrator	Norsonic	1251	Acoustical Calibrator	65105	09/20	
Receive Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	64340	11/20	
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	65617	09/20	
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	Const	77540	Temperature and Humidity	63810	10/20	
Indicator	Comet	T7510	Transmitter	63811	10/20	
Source Room Microphone	PCB Piezotronics	378C20 Microphone and Preamplifier		65969	04/21	
Source Room Microphone	PCB Piezotronics	378C20 Microphone and Preamplifier 63		63742	03/21	
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	63747	7 09/20	
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	63745	09/20	
Source Room Microphone	PCB Electronics	378C20	Microphone and Preamplifier	ophone and Preamplifier 63744 09/2		
Source Room Environmental Indicator	Comet	T7510 Temperature and Humidity Transmitter		63812	10/20	
Tapping Machine	Norsonic	Nor277 Tapping Machine		INT00936	01/21	

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

VT RECEIVE ROOM VOLUME	155.77 m³
VT SOURCE ROOM VOLUME	190 m ³

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Morgan S. J. Kennedy	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 maximum and minimum temperatures and humidities of the receive room from the duration of the test are listed in Sections 10 and 11.

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.

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

SECTION 8 TEST CALCULATIONS

The IIC (Impact Insulation Class) rating was calculated in accordance with ASTM E989.



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SECTION 9

TEST SPECIMEN DESCRIPTION

MATERIAL	DIMENSIONS (mm)	THICKNESS (mm)	MANUFACTURER AND SERIES	QUANTITY	AVERAGE WEIGHT		
Catagrin /CataDD	1219.2 by 152.4	3.5	OneFlor	10.98 m²	4.44 kg/m²		
Setagrip/SetaDB	Note: Loose laid			-	-		
	3023 by 3632	152.4	5000 PSI	10.98 m²	366.18 kg/m²		
Concrete Slab	25.4 mm from bo	th the top and bot	to the source room. Mats of tom of the slab, with bars sp or cracking was visible on th	aced on 305 mm o			
	38.1 by 2870	43.0	Armstrong HD8906	10.9 lin m	0.45 kg/m		
Drywall Main Beam	Note: Twelve gauge hanger wires were attached to the bottom side of the concrete at twelve locations and then to the main beams. The hanger wire was twisted around itself a minimum of three times within 76 mm creating a 305 mm plenum. The measured steel thickness was 0.5 mm.						
	38.3 by 1219	37.3	Armstrong XL8945P	27.2 lin m	0.45 kg/m		
Cross Tee	Note: Inserted into the main beams on 610 mm centers. The measured steel thickness was 0.5 mm.						
Fiberglass	609.6 by 2438	88.9	Johns Manville Unfaced R- 13	10.98 m²	1.32 kg/m²		
Insulation	Note: Loose laid onto the ceiling grid system						
	3023 by 1219	15.9	National Gypsum Gold Bond [®] Fire-Shield [®] Type X	10.56 m²	11.23 kg/m²		
Gypsum Panel	Note: Fastened with 25.4 mm fine thread drywall screws on 305 mm centers. Seams and perimeter sealed with Pecora AC-20 [®] Acoustical Sealant and covered with pressure-sensitive tape.						



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SECTION 10

TEST RESULTS - IMPACT SOUND TRANSMISSION

TEST DATE DATA FILE NO. CLIENT DESCRIPTION	HD8906 Drywall N	etagrip/SetaDB, 152.4 ı Aain Beam, 37.3mm Ar R-13 Fiberglass Insulati psum Panel	mstrong XL8	945P Cross Tee, 88.9	mm Johns	
SPECIMEN AREA	10.98 m²	8 m ² Maximum Temp. 21.7°C Minimum Temp. 21.5°C				
TECHNICIAN	MSJK	Max. Humidity	57%	Min. Humidity	56%	

FREQ	BACKGROUND SPL	ABSORPTION	NORMALIZED IMPACT SP	95% CONFIDENCE	NUMBER OF
(Hz)	(dB)	m²	(dB)	LIMIT	DEFICIENCIES
80	33.9	14.3	50	2.2	-
100	28.9	12.2	50	1.4	5
125	25.8	11.9	51	0.8	6
160	22.2	9.9	52	1.2	7
200	18.8	11.9	48	0.6	3
250	21.1	12.6	50	1.0	5
315	18.4	11.0	46	0.8	1
400	14.8	9.8	45	0.5	1
500	16.5	9.2	41	0.4	0
630	16.5	9.3	42	0.5	0
800	17.8	9.3	40	0.5	0
1000	16.3	8.8	37	0.6	0
1250	14.8	9.1	35	0.5	0
1600	12.4	9.5	31	0.6	0
2000	11.4	10.4	28	0.6	0
2500	9.7	11.7	22	0.6	0
3150	8.7	12.7	17	0.7	0
4000	8.8	13.9	8	0.6	-
5000	8.7	16.5	7	0.3	-
6300	9.2	20.5	9	0.1	-
8000	8.8	26.3	10	0.2	-
10000	8.7	26.3	10	0.3	-
IIC Ratin	<mark>ig</mark> 67	(Impact Insulati	on Class)	Sum of Deficiencies	28

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



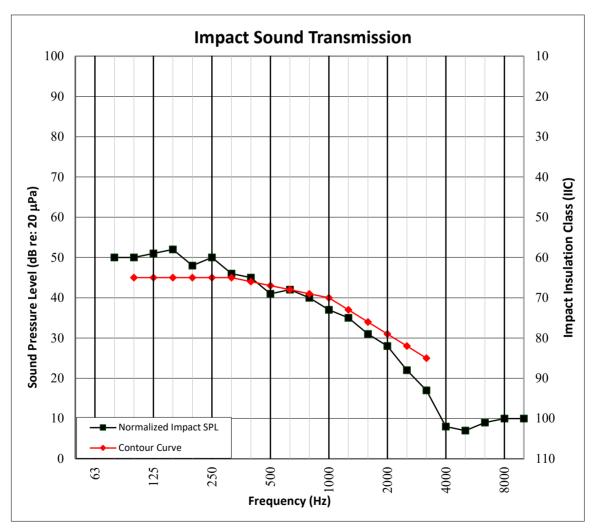
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SECTION 11

TEST RESULTS - IMPACT SOUND TRANSMISSION GRAPH

TEST DATE DATA FILE NO. CLIENT	6/17/2021 M4989.02 OneFlor USA				ACCREDITED Testing Laboratory		
DESCRIPTION	HD8906 Drywall N Manville Unfaced	Interfor OSA Testing Laboratory .5 mm OneFlor Setagrip/SetaDB, 152.4 mm 5000 PSI Concrete Slab, 43 mm Armstrong ID8906 Drywall Main Beam, 37.3 mm Armstrong XL8945P Cross Tee, 88.9 mm Johns Anville Unfaced R-13 Fiberglass Insulation, 15.9 mm National Gypsum Gold Bond® Fire- hield® Type X Gypsum Panel					
SPECIMEN AREA	10.98 m²	8 m ² Maximum Temp. 21.7°C Minimum Temp. 21.5°C					
TECHNICIAN	MSJK	Max. Humidity	57%	Min. Humidity	56%		





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SECTION 12

PHOTOGRAPHS



Photo No. 1 Source Room View of Test Specimen Installation



Photo No. 2 Receive Room View of Test Specimen Installation



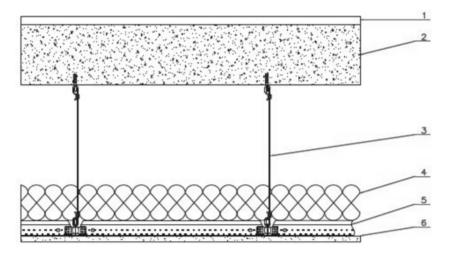
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SECTION 13

DRAWING



1-Floor Topping 2-Concrete Slab 3-Hanger Wire 4-Insulation 5-Ceiling Grid 6-Ceiling



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SECTION 14

REVISION LOG

REVISION	# DATE	PAGES	DESCRIPTION
			Original Report Issue - Reissue of Report No.
RO	03/29/22	N/A	M4989.02-113-11 in the name of OneFlor
			USA.