

# PALZIV NORTH AMERICA ACOUSTICAL PERFORMANCE TEST REPORT

## SCOPE OF WORK

ASTM E90, ASTM E492, AND ASTM E2179 TESTING ON LIFEPROOF PLUSH CARPET OVER 8MM (5/16") HQ LIVING CARPET CUSHION

## SPECIMEN TYPE

Concrete Slab - 152 mm

## REPORT NUMBER

M5263.13-113-11-R0

## TEST DATE

06/19/21

## ISSUE DATE

11/17/22

## RECORD RETENTION END

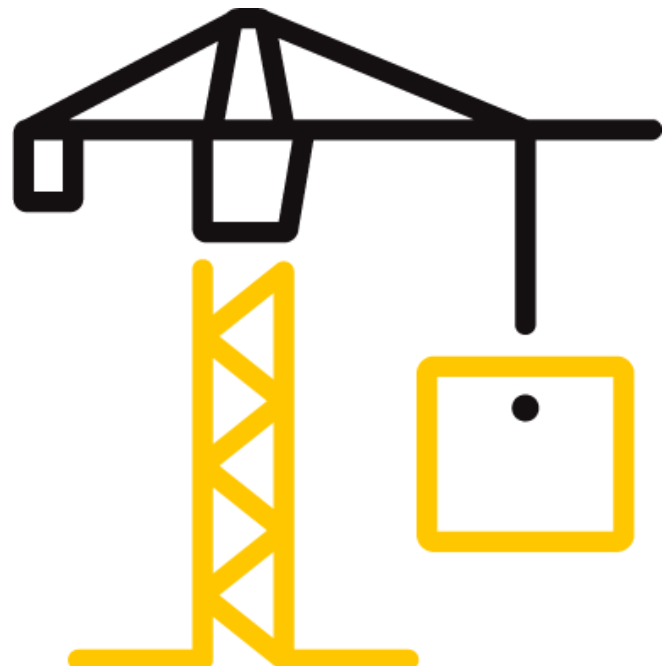
06/19/25

## PAGES

17

## DOCUMENT CONTROL

ATI 00629 (03/21/18)  
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## TEST REPORT FOR PALZIV NORTH AMERICA

Report No.: M5263.13-113-11-R0

Date: 11/17/22

### REPORT ISSUED TO

#### PALZIV NORTH AMERICA

7966 NC 56 Highway

Louisburg, North Carolina 27549

### SECTION 1

#### SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Palziv North America to perform testing in accordance with ASTM E90, ASTM E492, AND ASTM E2179 on Lifeproof Plush Carpet over 8mm (5/16") HQ Living Carpet Cushion. Results obtained are tested values and were secured by using the designated test methods. 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

<b>DATA FILE NO.</b>	M5263.13
<b>SERIES/MODEL:</b>	Lifeproof Plush Carpet over 8mm (5/16") HQ Living Carpet Cushion
<b>STC</b>	52
<b>IIC</b>	87
<b>ΔIIC</b>	48
<b>HIIC</b>	91
<b>ΔHIIC</b>	63

**COMPLETED BY:** Morgan S. J. Kennedy  
Technician - Acoustical

**TITLE:** Testing

**SIGNATURE:**

**DATE:** 11/17/22

**COMPLETED BY:** Daniel B. Mohler  
Project Lead - Acoustical

**TITLE:** Testing

**SIGNATURE:**

**DATE:** 11/17/22

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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 E2179-03(2016)**, *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 client were installed on an existing B&C assembly (Concrete Slab - 152 mm) 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 4054.5 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.

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 DATE	
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 Indicator	Comet	T7510	Temperature and Humidity Transmitter	63810	10/20	
				63811	10/20	
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	63747	09/20	
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	63745	09/20	
Source Room Microphone	PCB Electronics	378C20	Microphone and Preamplifier	63744	09/20	
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.

<b>VT RECEIVE ROOM VOLUME</b>	158.86 m <sup>3</sup>
<b>VT SOURCE ROOM VOLUME</b>	190 m <sup>3</sup>

**SECTION 6  
LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Michael A. Unnone	Intertek B&C
Daniel B. Mohler	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  $\Delta$ 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)	THICKNESS (mm)	MANUFACTURER AND SERIES	QUANTITY	AVERAGE WEIGHT
Carpet	3048 by 3657.6	16.0	Lifeproof Plush	10.98 m <sup>2</sup>	2.69 kg/m <sup>2</sup>
	Note: Loose laid				
Foam Carpet Cushion	1282.8 by 3048	8.0	(5/16") HQ Living	10.98 m <sup>2</sup>	0.39 kg/m <sup>2</sup>
	Note: Loose laid				
Concrete Slab	3023 by 3632	152.4	5000 PSI	10.98 m <sup>2</sup>	366.18 kg/m <sup>2</sup>
	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



<b>TEST DATE</b>	6/19/2021				
<b>DATA FILE NO.</b>	M5263.13				
<b>CLIENT</b>	Palziv North America				
<b>DESCRIPTION</b>	16 mm Lifeproof Plush Carpet, 8 mm (5/16") HQ Living Foam Carpet Cushion, 152.4 mm 5000 PSI Concrete Slab				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Receive Temp.</b>	22.4°C	<b>Source Temp.</b>	23.7°C
<b>TECHNICIAN</b>	MAU	<b>Receive Humidity</b>	62%	<b>Source Humidity</b>	62%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION m <sup>2</sup>	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	31.5	14.7	95	64	31	3.4	-
100	29.0	10.7	94	60	35	2.5	-
125	32.8	10.7	94	56	39	2.4	0
160	33.6	10.9	94	57	38	1.0	1
200	23.0	13.4	94	54	39	1.2	3
250	21.8	12.0	98	58	40	1.2	5
315	23.8	11.5	101	57	44	1.1	4
400	18.5	10.5	101	58	43	0.7	8
500	12.4	10.1	100	53	47	0.7	5
630	17.7	10.2	102	52	50	1.1	3
800	18.7	10.1	100	49	52	0.7	2
1000	15.1	10.3	99	46	54	0.7	1
1250	12.6	10.6	99	43	57	0.7	0
1600	8.2	10.7	100	40	60	0.9	0
2000	6.5	11.3	99	36	63	0.7	0
2500	5.9	12.0	98	33	66	0.6	0
3150	5.0	12.5	99	31	67	0.6	0
4000	5.5	13.6	100	28	71	0.5	0
5000	6.1	15.4	100	26	73	0.6	-
6300	7.1	17.9	95	19	74	0.7	-
8000	7.4	22.3	94	16	75	1.2	-
10000	7.9	22.3	91	12	77	1.1	-
<b>STC Rating</b>	<b>52</b>	<i>(Sound Transmission Class)</i>			<b>Sum of Deficiencies</b>	<b>32</b>	

- 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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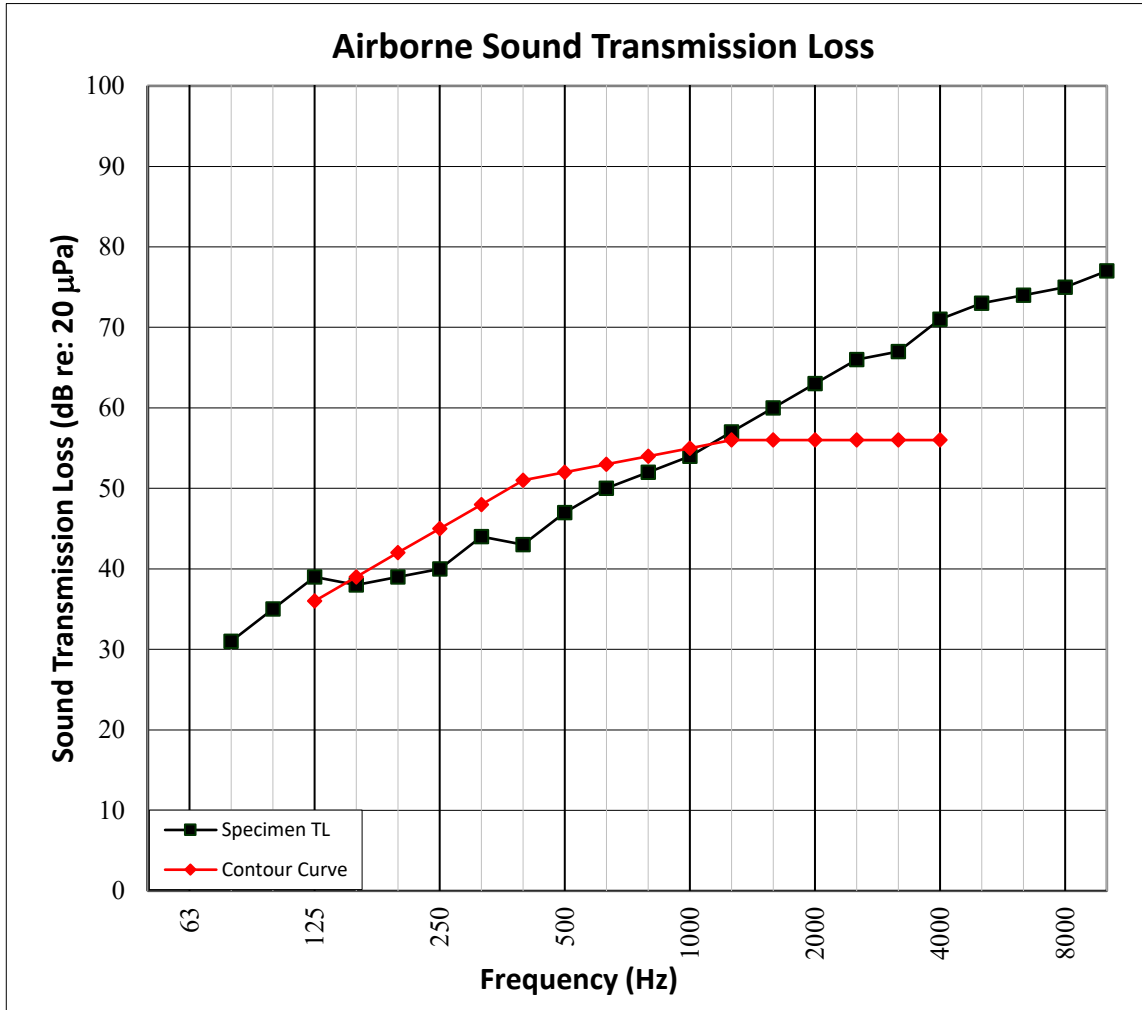
Date: 11/17/22

### SECTION 11

#### TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS GRAPH



<b>TEST DATE</b>	6/19/2021				
<b>DATA FILE NO.</b>	M5263.13				
<b>CLIENT</b>	Palziv North America				
<b>DESCRIPTION</b>	16 mm Lifeproof Plush Carpet, 8 mm (5/16") HQ Living Foam Carpet Cushion, 152.4 mm 5000 PSI Concrete Slab				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Receive Temp.</b>	22.4°C	<b>Source Temp.</b>	23.7°C
<b>TECHNICIAN</b>	MAU	<b>Receive Humidity</b>	62%	<b>Source Humidity</b>	62%



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### SECTION 12

#### TEST RESULTS - IMPACT SOUND TRANSMISSION



<b>TEST DATE</b>	6/19/2021				
<b>DATA FILE NO.</b>	M5263.13				
<b>CLIENT</b>	Palziv North America				
<b>DESCRIPTION</b>	16 mm Lifeproof Plush Carpet, 8 mm (5/16") HQ Living Foam Carpet Cushion, 152.4 mm 5000 PSI Concrete Slab				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Maximum Temp.</b>	22.4°C	<b>Minimum Temp.</b>	22.3°C
<b>TECHNICIAN</b>	MAU	<b>Max. Humidity</b>	62%	<b>Min. Humidity</b>	61%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION m <sup>2</sup>	NORMALIZED IMPACT SPL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	29.1	14.9	38	2.5	-
100	31.5	12.7	33	1.4	8
125	23.2	10.4	27	1.0	2
160	19.2	10.3	24	0.9	0
200	16.4	13.5	22	0.6	0
250	19.3	11.8	25	0.6	0
315	15.1	11.5	26	0.5	1
400	12.9	10.4	27	0.5	3
500	8.4	10.0	24	0.5	1
630	12.8	10.4	16	0.4	0
800	15.5	10.3	15	0.3	0
1000	12.1	10.5	13	0.6	0
1250	10.2	10.6	11	0.4	0
1600	6.8	10.7	6	0.3	0
2000	6.0	11.3	5	0.3	0
2500	5.9	12.1	4	0.4	0
3150	5.0	12.5	5	0.3	0
4000	5.3	13.7	5	0.3	-
5000	6.1	15.3	6	0.2	-
6300	7.0	17.7	8	0.2	-
8000	7.3	22.1	10	0.2	-
10000	7.5	22.1	9	0.2	-
<b>IIC Rating</b>	<b>87</b>	<i>(Impact Insulation Class)</i>		<b>Sum of Deficiencies</b>	<b>15</b>

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

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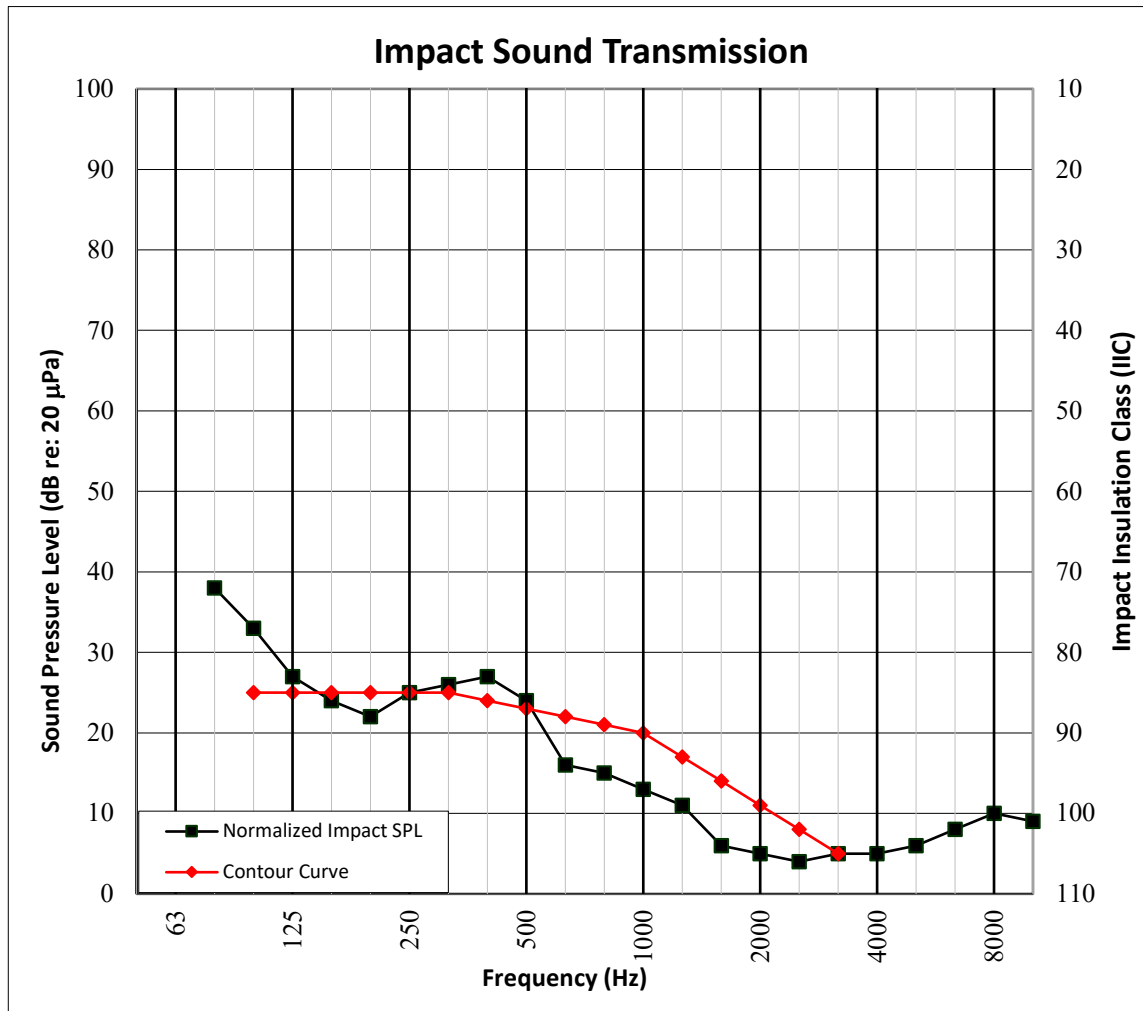
Date: 11/17/22

### SECTION 13

#### TEST RESULTS - IMPACT SOUND TRANSMISSION GRAPH



<b>TEST DATE</b>	6/19/2021				
<b>DATA FILE NO.</b>	M5263.13				
<b>CLIENT</b>	Palziv North America				
<b>DESCRIPTION</b>	16 mm Lifeproof Plush Carpet, 8 mm (5/16") HQ Living Foam Carpet Cushion, 152.4 mm 5000 PSI Concrete Slab				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Maximum Temp.</b>	22.4°C	<b>Minimum Temp.</b>	22.3°C
<b>TECHNICIAN</b>	MAU	<b>Max. Humidity</b>	62%	<b>Min. Humidity</b>	61%



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### SECTION 14

#### TEST RESULTS - HIGH-FREQUENCY IMPACT SOUND TRANSMISSION



<b>TEST DATE</b>	6/19/2021				
<b>DATA FILE NO.</b>	M5263.13				
<b>CLIENT</b>	Palziv North America				
<b>DESCRIPTION</b>	16 mm Lifeproof Plush Carpet, 8 mm (5/16") HQ Living Foam Carpet Cushion, 152.4 mm 5000 PSI Concrete Slab				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Maximum Temp.</b>	22.4°C	<b>Minimum Temp.</b>	22.3°C
<b>TECHNICIAN</b>	MAU	<b>Max. Humidity</b>	62%	<b>Min. Humidity</b>	61%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION m <sup>2</sup>	NORMALIZED IMPACT SPL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
400	12.9	10.4	27	0.5	7.1
500	8.4	10.0	24	0.5	4.8
630	12.8	10.4	16	0.4	0.0
800	15.5	10.3	15	0.3	0.0
1000	12.1	10.5	13	0.6	0.0
1250	10.2	10.6	11	0.4	0.0
1600	6.8	10.7	6	0.3	0.0
2000	6.0	11.3	5	0.3	0.0
2500	5.9	12.1	4	0.4	0.5
3150	5.0	12.5	5	0.3	3.6
<b>HIIC Rating</b>	<b>91</b>	<i>(High-Frequency Impact Insulation Class)</i>		<b>Sum of Deficiencies</b>	<b>16.0</b>

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

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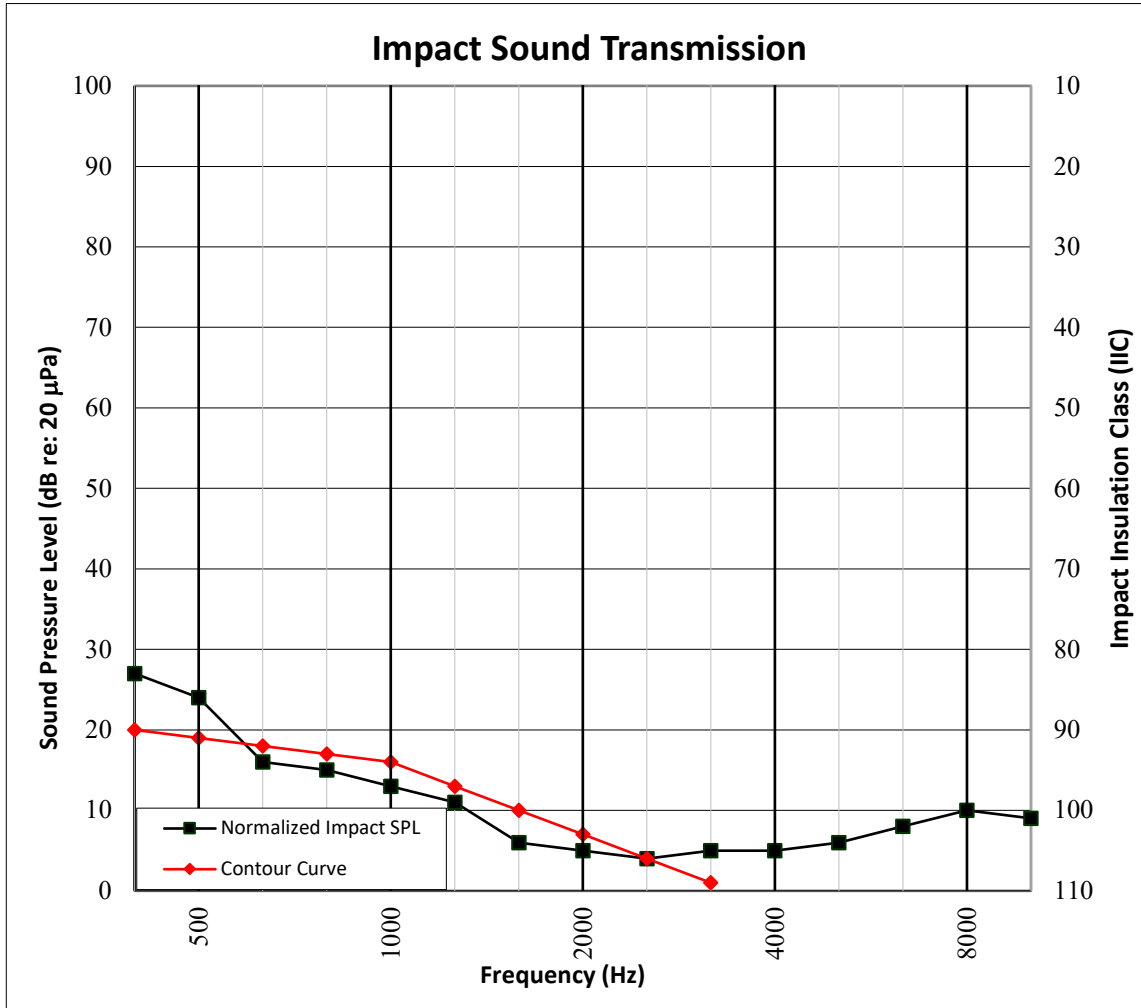
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### SECTION 15

#### TEST RESULTS -HIGH-FREQUENCY IMPACT SOUND TRANSMISSION GRAPH



<b>TEST DATE</b>	6/19/2021				
<b>DATA FILE NO.</b>	M5263.13				
<b>CLIENT</b>	Palziv North America				
<b>DESCRIPTION</b>	16 mm Lifeproof Plush Carpet, 8 mm (5/16") HQ Living Foam Carpet Cushion, 152.4 mm 5000 PSI Concrete Slab				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Maximum Temp.</b>	22.4°C	<b>Minimum Temp.</b>	22.3°C
<b>TECHNICIAN</b>	MAU	<b>Max. Humidity</b>	62%	<b>Min. Humidity</b>	61%



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### SECTION 16

#### TEST RESULTS - DELTA IMPACT INSULATION



<b>TEST DATE</b>	6/19/2021				
<b>DATA FILE NO.</b>	M5263.13				
<b>CLIENT</b>	Palziv North America				
<b>DESCRIPTION</b>	16 mm Lifeproof Plush Carpet, 8 mm (5/16") HQ Living Foam Carpet Cushion, 152.4 mm 5000 PSI Concrete Slab				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Maximum Temp.</b>	22.4°C	<b>Minimum Temp.</b>	22.3°C
<b>TECHNICIAN</b>	MAU	<b>Max. Humidity</b>	62%	<b>Min. Humidity</b>	61%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION m <sup>2</sup>	NORMALIZED IMPACT SPL BARE (dB)	95% CONF LIMIT	NORMALIZED IMPACT SPL SPEC (dB)	95% CONF LIMIT	RESULT ARRAY L <sub>ref,c</sub>	NUMBER OF DEFICIENCIES
100	31.5	12.7	55.9	1.4	32.6	1.7	44.0	8
125	23.2	10.4	59.2	1.3	27.4	1.2	36.0	0
160	19.2	10.3	61.8	0.9	23.6	1.1	30.0	0
200	16.4	13.5	65.6	0.7	22.0	0.7	25.0	0
250	19.3	11.8	68.5	1.0	24.5	0.8	25.0	0
315	15.1	11.5	68.8	0.7	25.9	0.6	27.0	0
400	12.9	10.4	69.1	0.6	27.1	0.7	28.0	0
500	8.4	10.0	69.2	0.7	23.8	0.7	25.0	0
630	12.8	10.4	70.3	0.5	16.2	0.5	17.0	0
800	15.5	10.3	71.6	0.6	14.7	0.4	15.0	0
1000	12.1	10.5	71.8	0.3	13.0	0.7	13.0	0
1250	10.2	10.6	72.1	0.4	10.6	0.5	11.0	0
1600	6.8	10.7	73.0	0.4	6.1	0.4	5.0	0
2000	6.0	11.3	73.1	0.7	4.7	0.3	4.0	0
2500	5.9	12.1	73.0	0.8	4.5	0.5	3.0	0
3150	5.0	12.5	71.7	0.9	4.6	0.4	5.0	0
<b>ΔIIC Rating</b>	<b>48</b>	<i>(Delta Impact Insulation Class)</i>				<b>Sum of Deficiencies</b>	<b>8</b>	
<b>ΔHIIC Rating</b>	<b>63</b>	<i>(Delta High-Frequency Impact Insulation Class)</i>				<b>Sum of Deficiencies</b>	<b>18</b>	

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

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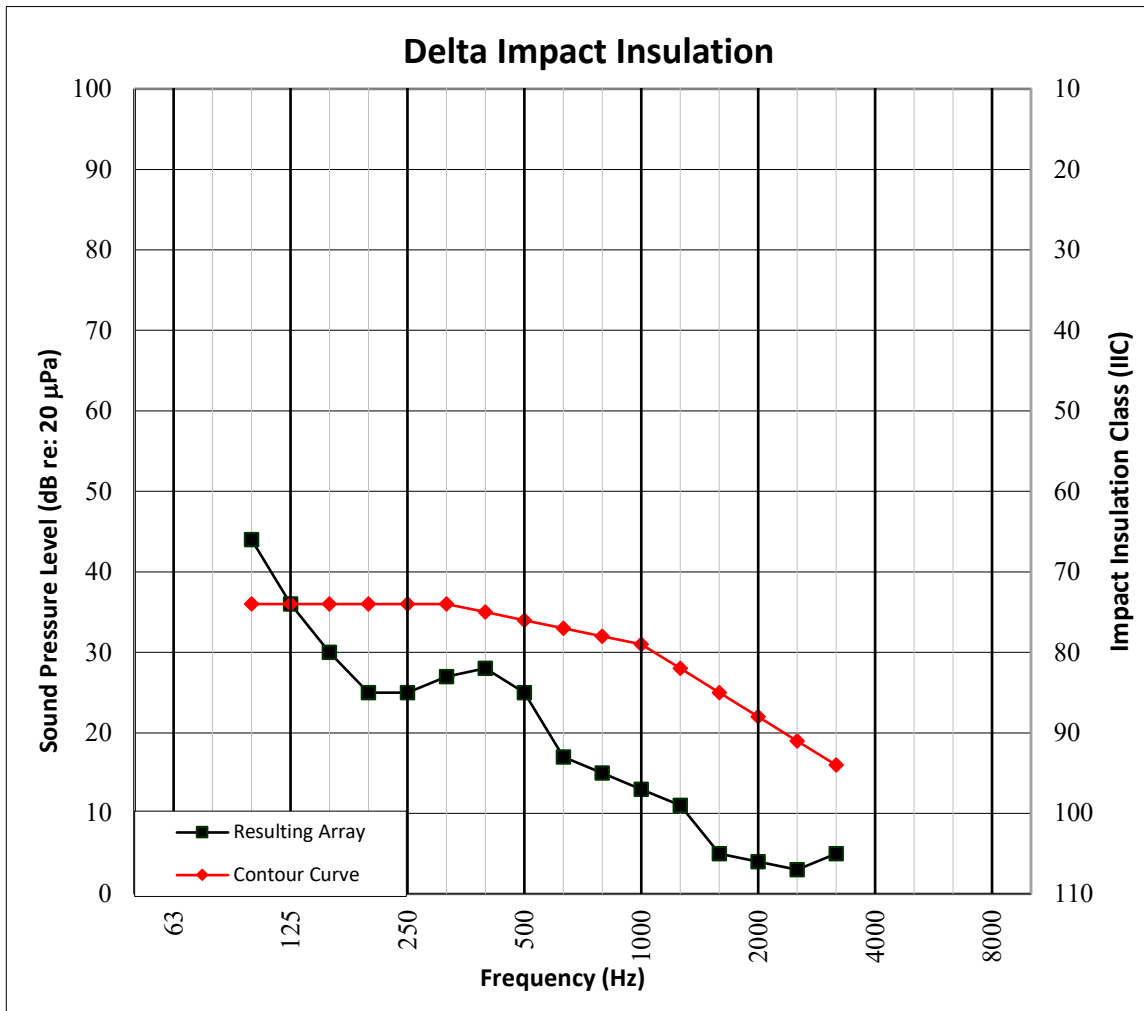
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### SECTION 17

#### TEST RESULTS - DELTA IMPACT INSULATION GRAPH



<b>TEST DATE</b>	6/19/2021				
<b>DATA FILE NO.</b>	M5263.13				
<b>CLIENT</b>	Palziv North America				
<b>DESCRIPTION</b>	16 mm Lifeproof Plush Carpet, 8 mm (5/16") HQ Living Foam Carpet Cushion, 152.4 mm 5000 PSI Concrete Slab				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Maximum Temp.</b>	22.4°C	<b>Minimum Temp.</b>	22.3°C
<b>TECHNICIAN</b>	MAU	<b>Max. Humidity</b>	62%	<b>Min. Humidity</b>	61%



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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**

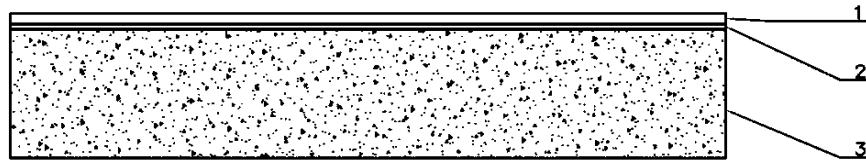
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### SECTION 19

#### DRAWING



- 1-Floor Topping
- 2-Underlayment
- 3-Concrete Slab

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**SECTION 20**

**REVISION LOG**

REVISION #	DATE	PAGES	DESCRIPTION
R0	11/17/22	N/A	Original Report Issue