

# CLARKDIETRICH ACOUSTICAL PERFORMANCE TEST REPORT

## SCOPE OF WORK

ASTM E90 AND ASTM E492 TESTING ON  
SHAW EXPO GLUE-DOWN LUXURY VINYL PLANK

## SPECIMEN TYPE

Open Web Truss with CDSC Sound Clips and Type C Drywall

## REPORT NUMBER

P2294.05-113-11-R0

## TEST DATE

09/22/22

## ISSUE DATE

10/17/22

## RECORD RETENTION END

09/22/26

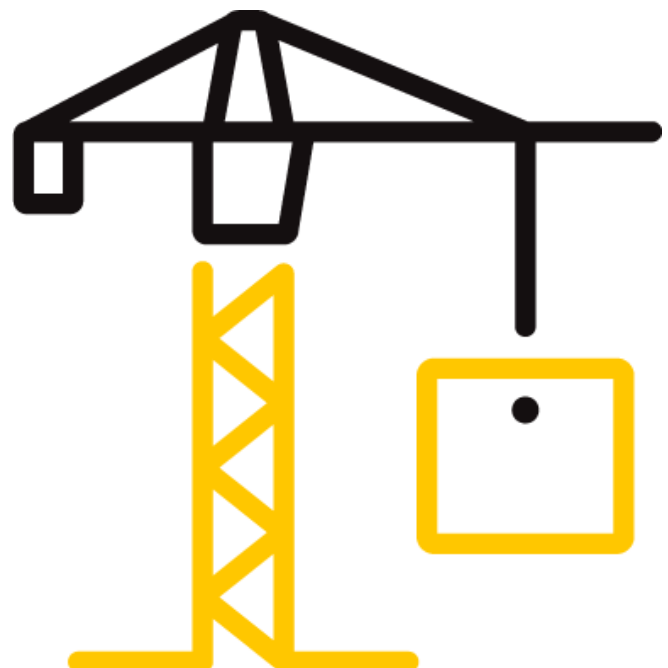
## PAGES

15

## DOCUMENT CONTROL

RTTDS-R-AMER-Test-2844 (03/23/22)

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## TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: P2294.05-113-11-R0

Date: 10/17/22

### REPORT ISSUED TO

#### CLARKDIETRICH BUILDING SYSTEMS, LLC

9050 Centre Pointe Drive, Suite 400

West Chester, Ohio 45069

### SECTION 1

#### SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by ClarkDietrich Building Systems, LLC to perform testing in accordance with ASTM E90 AND ASTM E492 on Shaw Expo Glue-Down Luxury Vinyl Plank. 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>	P2294.05
<b>SERIES/MODEL:</b>	Shaw Expo Glue-Down Luxury Vinyl Plank
<b>STC</b>	62
<b>IIC</b>	54
<b>HIIC</b>	55

**COMPLETED BY:** Corey S. Kohler  
Technician - Acoustical  
**TITLE:** Testing  
**SIGNATURE:**  
**DATE:** 10/17/22

**COMPLETED BY:** Daniel B. Mohler  
Manager - Acoustical Testing  
**TITLE:**  
**SIGNATURE:**  
**DATE:** 10/17/22

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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 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 (Open Web Truss with CDSC Sound Clips and Type C Drywall) 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 1052.4 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
2-Channel Analog Input	National Instruments	NI 9250	2-Channel Analog Input	INT02586	04/22 *
2-Channel Analog Input	National Instruments	NI 9250	2-Channel Analog Input	INT02587	04/22 *
2-Channel Analog Input	National Instruments	NI 9250	2-Channel Analog Input	INT02608	04/22 *
2-Channel Analog Input	National Instruments	NI 9250	2-Channel Analog Input	INT02609	04/22 *
2-Channel Analog Input	National Instruments	NI 9250	2-Channel Analog Input	INT02610	04/22 *
2-Channel Analog Input	National Instruments	NI 9250	2-Channel Analog Input	INT02612	04/22 *
Microphone Calibrator	Norsonic	34093	Acoustical Calibrator	65105	10/21
Receive Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	63741	06/22
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	63740	04/22
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64340	10/21
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	63744	09/21
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	65968	01/22
Receive Room Environmental Indicator	Comet	T7510	Temperature and Humidity Transmitter	63810	10/21
				63811	10/21
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	65103	02/22
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	64902	12/21
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	63739	07/22
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	63742	04/22
Source Room Microphone	PCB Electronics	378C20	Microphone and Preamplifier	64906	04/22
Source Room Environmental Indicator	Comet	T7510	Temperature and Humidity Transmitter	63812	10/21
Tapping Machine	Norsonic	Nor277	Tapping Machine	INT00936	02/22

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

<b>VT RECEIVE ROOM VOLUME</b>	155.77 m <sup>3</sup>
<b>VT SOURCE ROOM VOLUME</b>	190 m <sup>3</sup>

**SECTION 6  
LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Morgan S. J. Kennedy	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 and 13.

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.

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), and HIIC (High-Frequency Impact Insulation Class) ratings were calculated in accordance with ASTM E413, ASTM E989, and ASTM E3222, respectively.

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**SECTION 9**

**TEST SPECIMEN DESCRIPTION**

MATERIAL	DIMENSIONS (mm)	THICKNESS (mm)	MANUFACTURER AND SERIES	QUANTITY	AVERAGE WEIGHT
Luxury Vinyl Tile	1219.2 by 152.4	2.0	Shaw Expo	10.98 m <sup>2</sup>	3.47 kg/m <sup>2</sup>
	Note: A sheet of 2 mil polyethylene plastic was adhered to the subfloor topping with Sprayway Fast Tack 85 spray adhesive. The underlayment was adhered to the sheeting with Shaw S150 spray adhesive. Adhesive was allowed to cure per manufacturer's specifications.				
Gypsum Concrete	3023 by 3632	19.1	Maxxon Gyp-Crete	10.98 m <sup>2</sup>	53.8 kg/m <sup>2</sup>
	Note: Poured directly onto the subfloor, cured a minimum of 14 days. The gypsum panel had a closed cell foam perimeter isolation. No noticeable shrinkage or cracking was visible on the specimen.				
Oriented Strand Board Sheathing	1219 by 2438	18.8	N/A	10.98 m <sup>2</sup>	11.67 kg/m <sup>2</sup>
	Note: Adhered to the floor trusses with Loctite PL 400 Subfloor adhesive. Fastened with 9D nails on 203 mm centers along perimeter and 305 mm centers along trusses.				
Fiberglass Insulation	520.7 by 3023	88.9	Johns Manville Unfaced R-13	10.98 m <sup>2</sup>	1.32 kg/m <sup>2</sup>
	Note: Installed in the cavity between trusses, stapled flush with the subfloor				
Open Web Truss	88.9 by 2933.7	457.2	York PB Truss L/360	7 trusses	19.05 kg/truss
	Note: Installed on 610 mm centers using JUS414 hanger brackets.				
Sound Clip	77 by 35.2	24.5	ClarkDietrich CDSC	36 clips	0.09 kg/clip
	Note: Fastened to the joist bottoms in a 610 mm by 1219 mm grid pattern				
Furring/Hat Channel	3657.6 by 76.2	22.3	ClarkDietrich 087F125-18	29.1 lin m	0.48 kg/m
	Note: Installed into the ceiling clips, 610 mm on center				
Gypsum Panel	1219 by 3023	15.9	USG SHEETROCK® Brand FIRECODE® C Core	10.98 m <sup>2</sup>	11.91 kg/m <sup>2</sup>
	Note: Fastened to the channels on 305 mm centers with 25.4 mm Type S bugle head screws. The seams of the gypsum panels were sealed with Pecora AC-20 FTR caulk and covered with pressure sensitive tape.				

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### SECTION 10

### TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS



<b>TEST DATE</b>	9/22/2022				
<b>DATA FILE NO.</b>	P2294.05				
<b>CLIENT</b>	ClarkDietrich Building Systems, LLC				
<b>DESCRIPTION</b>	2 mm Shaw Expo Luxury Vinyl Tile, 19.05 mm Maxxon Gyp-Crete Gypsum Concrete, 18.8 mm Oriented Strand Board Sheathing, 88.9 mm Johns Manville Unfaced R-13 Fiberglass Insulation, 457.2 mm York PB Truss L/360 Open Web Truss, 24.5 mm ClarkDietrich CDSC Sound Clip, 22.3 mm ClarkDietrich 087F125-18 Furring/Hat Channel, 15.9 mm USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Receive Temp.</b>	22.1°C	<b>Source Temp.</b>	19.9°C
<b>TECHNICIAN</b>	MSJK	<b>Receive Humidity</b>	74%	<b>Source Humidity</b>	74%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION m <sup>2</sup>	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% SAMPLING LIMIT	NUMBER OF DEFICIENCIES
50	34.3	26.7	106	73	31	3.7	-
63	33.1	15.6	104	71	33	4.7	-
80	30.8	13.5	100	69	31	2.6	-
100	25.3	8.9	99	66	36	2.1	-
125	21.9	11.5	102	60	43	1.7	3
160	19.5	9.0	100	57	45	1.3	4
200	16.2	10.7	97	51	48	1.8	4
250	13.5	10.3	98	49	51	0.8	4
315	16.1	10.0	102	52	52	0.9	6
400	14.5	8.4	102	49	56	0.7	5
500	15.7	7.2	98	41	60	0.8	2
630	17.0	7.7	97	37	62	0.9	1
800	16.9	7.7	98	38	62	0.8	2
1000	20.3	7.6	99	37	64	0.3	1
1250	18.4	7.9	99	35	67	0.6	0
1600	13.7	7.7	99	33	68	0.6	0
2000	10.2	8.5	99	32	69	0.4	0
2500	8.6	9.4	94	27	69	0.5	0
3150	7.5	10.0	91	22	71	0.4	0
4000	7.7	11.0	92	18	75	0.5	0
5000	8.0	12.1	91	13	79	0.6	-
6300	8.8	14.1	88	9	80	0.6	-
8000	9.6	17.3	91	9	81	1.0	-
10000	10.1	17.3	89	9	80	1.2	-
<b>STC Rating</b>	<b>62</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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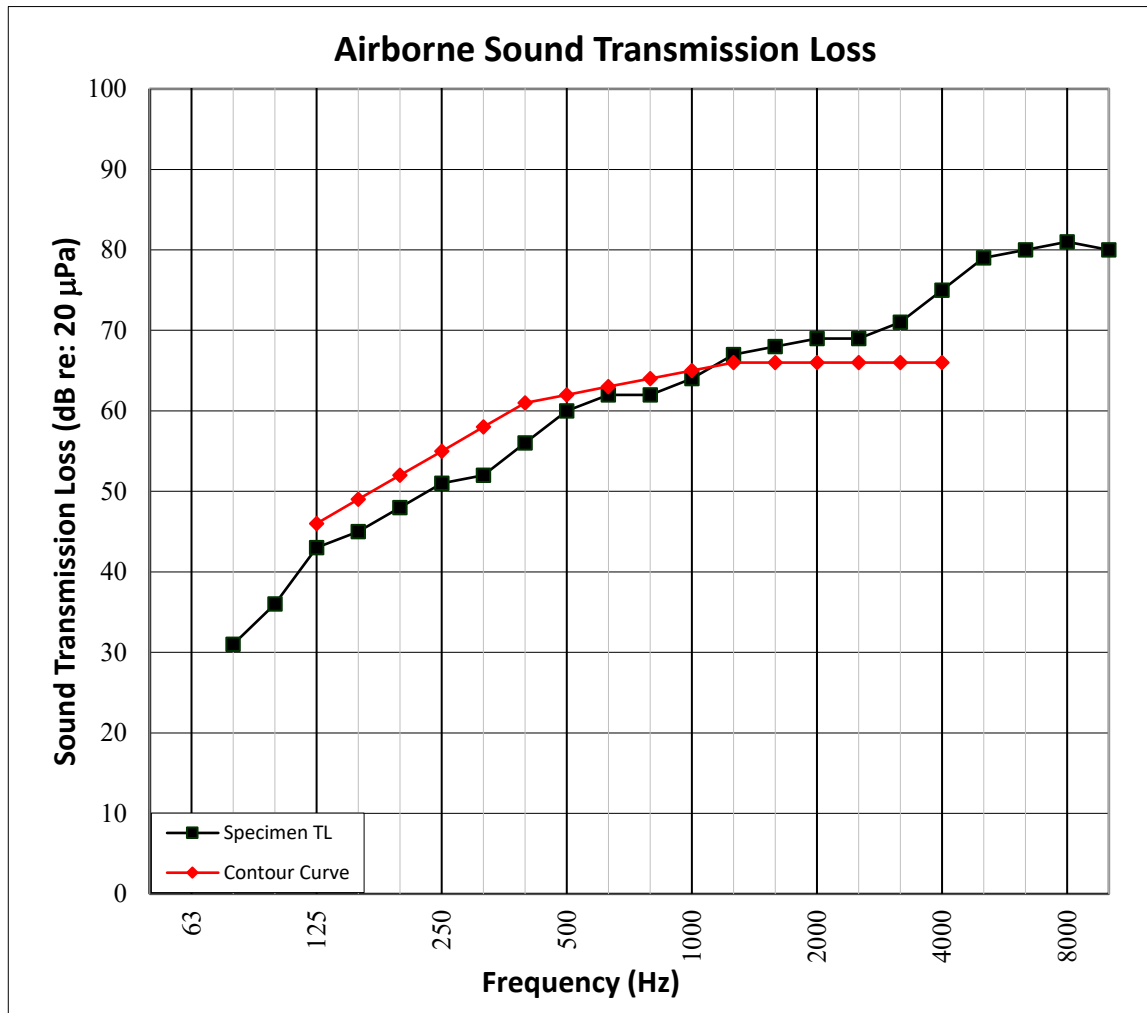
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### SECTION 11

### TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS GRAPH



<b>TEST DATE</b>	9/22/2022				
<b>DATA FILE NO.</b>	P2294.05				
<b>CLIENT</b>	ClarkDietrich Building Systems, LLC				
<b>DESCRIPTION</b>	2 mm Shaw Expo Luxury Vinyl Tile, 19.05 mm Maxxon Gyp-Crete Gypsum Concrete, 18.8 mm Oriented Strand Board Sheathing, 88.9 mm Johns Manville Unfaced R-13 Fiberglass Insulation, 457.2 mm York PB Truss L/360 Open Web Truss, 24.5 mm ClarkDietrich CDSC Sound Clip, 22.3 mm ClarkDietrich 087F125-18 Furring/Hat Channel, 15.9 mm USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Receive Temp.</b>	22.1°C	<b>Source Temp.</b>	19.9°C
<b>TECHNICIAN</b>	MSJK	<b>Receive Humidity</b>	74%	<b>Source Humidity</b>	74%





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### SECTION 12

#### TEST RESULTS - IMPACT SOUND TRANSMISSION



<b>TEST DATE</b>	9/22/2022				
<b>DATA FILE NO.</b>	P2294.05				
<b>CLIENT</b>	ClarkDietrich Building Systems, LLC				
<b>DESCRIPTION</b>	2 mm Shaw Expo Luxury Vinyl Tile, 19.05 mm Maxxon Gyp-Crete Gypsum Concrete, 18.8 mm Oriented Strand Board Sheathing, 88.9 mm Johns Manville Unfaced R-13 Fiberglass Insulation, 457.2 mm York PB Truss L/360 Open Web Truss, 24.5 mm ClarkDietrich CDSC Sound Clip, 22.3 mm ClarkDietrich 087F125-18 Furring/Hat Channel, 15.9 mm USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Maximum Temp.</b>	22.1°C	<b>Minimum Temp.</b>	22.1°C
<b>TECHNICIAN</b>	MSJK	<b>Max. Humidity</b>	74%	<b>Min. Humidity</b>	74%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION m <sup>2</sup>	NORMALIZED IMPACT SPL (dB)	95% SAMPLING LIMIT	NUMBER OF DEFICIENCIES
80	36.9	14.5	63	2.1	-
100	26.2	8.8	60	1.5	2
125	25.5	10.8	60	0.9	2
160	24.2	9.4	60	0.9	2
200	21.1	11.5	61	0.6	3
250	16.2	10.6	60	0.5	2
315	18.1	10.3	61	0.6	3
400	18.5	8.4	58	0.6	1
500	17.1	7.0	58	0.6	2
630	18.8	7.8	56	0.3	1
800	18.9	7.6	56	0.3	2
1000	20.4	7.5	52	0.3	0
1250	18.8	7.9	48	0.2	0
1600	15.6	7.7	45	0.2	0
2000	11.7	8.3	45	0.2	1
2500	9.6	9.2	45	0.3	4
3150	8.2	10.1	39	0.4	1
4000	8.0	10.8	34	0.4	-
5000	8.0	12.1	30	0.3	-
6300	8.8	14.2	25	0.5	-
8000	9.6	17.2	24	0.4	-
10000	10.1	17.2	20	0.4	-
<b>IIC Rating</b>	<b>54</b>	<i>(Impact Insulation Class)</i>		<b>Sum of Deficiencies</b>	<b>26</b>

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

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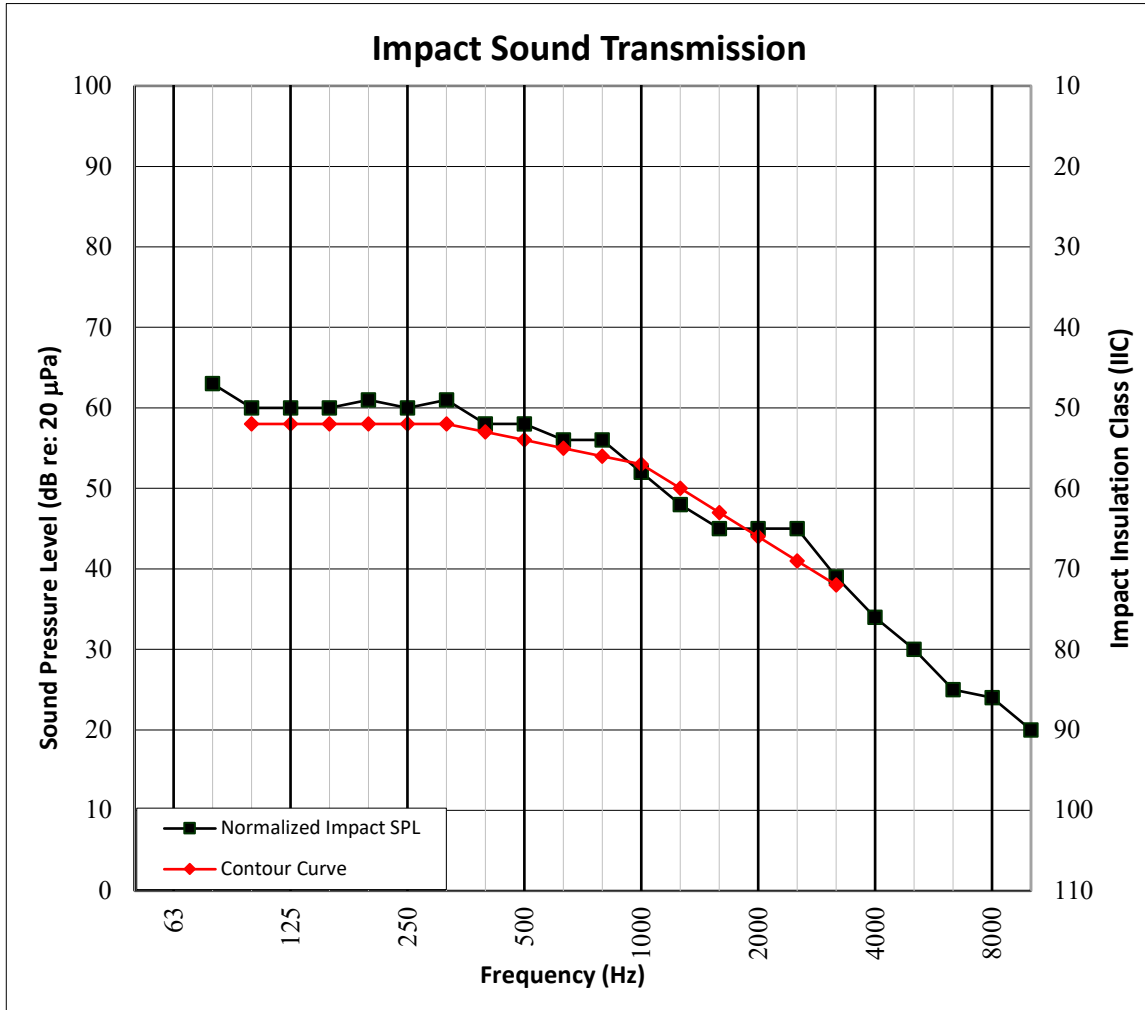
Date: 10/17/22

### SECTION 13

### TEST RESULTS - IMPACT SOUND TRANSMISSION GRAPH



<b>TEST DATE</b>	9/22/2022				
<b>DATA FILE NO.</b>	P2294.05				
<b>CLIENT</b>	ClarkDietrich Building Systems, LLC				
<b>DESCRIPTION</b>	2 mm Shaw Expo Luxury Vinyl Tile, 19.05 mm Maxxon Gyp-Crete Gypsum Concrete, 18.8 mm Oriented Strand Board Sheathing, 88.9 mm Johns Manville Unfaced R-13 Fiberglass Insulation, 457.2 mm York PB Truss L/360 Open Web Truss, 24.5 mm ClarkDietrich CDSC Sound Clip, 22.3 mm ClarkDietrich 087F125-18 Furring/Hat Channel, 15.9 mm USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Maximum Temp.</b>	22.1°C	<b>Minimum Temp.</b>	22.1°C
<b>TECHNICIAN</b>	MSJK	<b>Max. Humidity</b>	74%	<b>Min. Humidity</b>	74%



## TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

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### SECTION 14

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



<b>TEST DATE</b>	9/22/2022				
<b>DATA FILE NO.</b>	P2294.05				
<b>CLIENT</b>	ClarkDietrich Building Systems, LLC				
<b>DESCRIPTION</b>	2 mm Shaw Expo Luxury Vinyl Tile, 19.05 mm Maxxon Gyp-Crete Gypsum Concrete, 18.8 mm Oriented Strand Board Sheathing, 88.9 mm Johns Manville Unfaced R-13 Fiberglass Insulation, 457.2 mm York PB Truss L/360 Open Web Truss, 24.5 mm ClarkDietrich CDSC Sound Clip, 22.3 mm ClarkDietrich 087F125-18 Furring/Hat Channel, 15.9 mm USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Maximum Temp.</b>	22.1°C	<b>Minimum Temp.</b>	22.1°C
<b>TECHNICIAN</b>	MSJK	<b>Max. Humidity</b>	74%	<b>Min. Humidity</b>	74%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION m <sup>2</sup>	NORMALIZED IMPACT SPL (dB)	95% SAMPLE CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
400	18.5	8.4	58	0.6	2.0
500	17.1	7.0	58	0.6	2.7
630	18.8	7.8	56	0.3	2.4
800	18.9	7.6	56	0.3	2.6
1000	20.4	7.5	52	0.3	0.0
1250	18.8	7.9	48	0.2	0.0
1600	15.6	7.7	45	0.2	0.0
2000	11.7	8.3	45	0.2	2.4
2500	9.6	9.2	45	0.3	5.0
3150	8.2	10.1	39	0.4	2.3
<b>HiIC Rating</b>	<b>55</b>	<i>(High-Frequency Impact Insulation Class)</i>		<b>Sum of Deficiencies</b>	<b>19.4</b>

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

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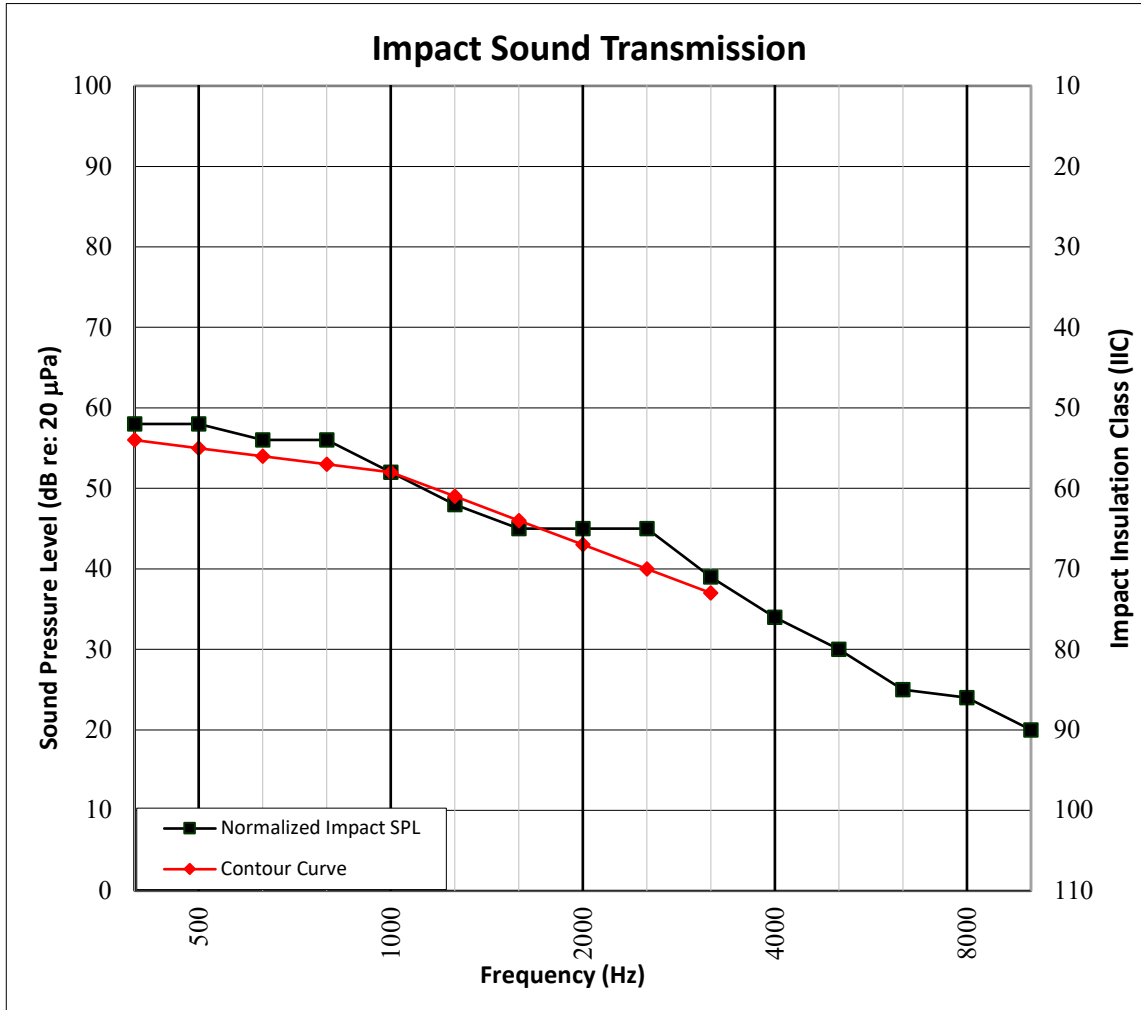
Date: 10/17/22

### SECTION 15

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



<b>TEST DATE</b>	9/22/2022				
<b>DATA FILE NO.</b>	P2294.05				
<b>CLIENT</b>	ClarkDietrich Building Systems, LLC				
<b>DESCRIPTION</b>	2 mm Shaw Expo Luxury Vinyl Tile, 19.05 mm Maxxon Gyp-Crete Gypsum Concrete, 18.8 mm Oriented Strand Board Sheathing, 88.9 mm Johns Manville Unfaced R-13 Fiberglass Insulation, 457.2 mm York PB Truss L/360 Open Web Truss, 24.5 mm ClarkDietrich CDSC Sound Clip, 22.3 mm ClarkDietrich 087F125-18 Furring/Hat Channel, 15.9 mm USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
<b>SPECIMEN AREA</b>	10.98 m <sup>2</sup>	<b>Maximum Temp.</b>	22.1°C	<b>Minimum Temp.</b>	22.1°C
<b>TECHNICIAN</b>	MSJK	<b>Max. Humidity</b>	74%	<b>Min. Humidity</b>	74%



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### SECTION 16

#### PHOTOGRAPHS



Photo No. 1

Source Room View of Test Specimen Installation



Photo No. 2

Receive Room View of Test Specimen Installation

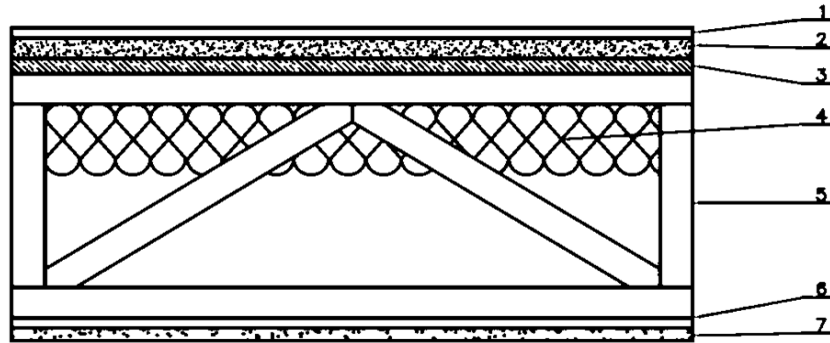
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### SECTION 17

#### DRAWING



- 1-Floor Topping
- 2-Subfloor Topping
- 3-Subfloor
- 4-Insulation
- 5-Truss
- 6-Ceiling Isolation
- 7-Ceiling

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**SECTION 18**

**REVISION LOG**

REVISION #	DATE	PAGES	DESCRIPTION
R0	10/17/22	N/A	Original Report Issue