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CLARKDIETRICH
ACOUSTICAL PERFORMANCE TEST REPORT

SCOPE OF WORK
ASTM E90 AND ASTM E492 TESTING ON SHAW CARPET & PAD

SPECIMEN TYPE
Open Web Truss with CDSC Sound Clips and Type C Drywall

REPORT NUMBER
P2294.06-113-11-R0

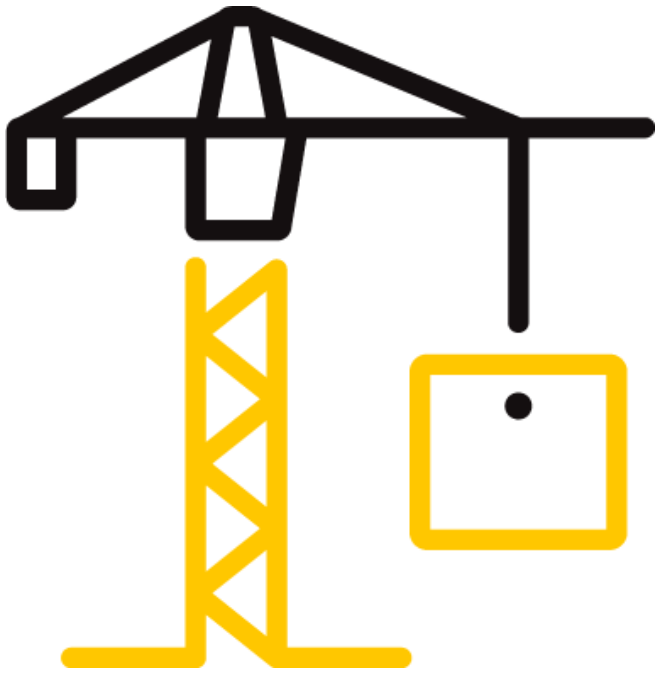
TEST DATE
09/22/22

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.: P2294.06-113-11-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 Carpet & Pad. 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

DATA FILE NO.	P2294.06
SERIES/MODEL:	Shaw Carpet & Pad
STC	62
IIC	82
HIIC	90

COMPLETED BY:	Corey S. Kohler	**COMPLETED BY:**	Daniel B. Mohler
TITLE:	Technician - Acoustical Testing	**TITLE:**	Manager - Acoustical Testing
SIGNATURE:	Digitally Signed by: Corey Kohler	**SIGNATURE:**	Digitally Signed by: Daniel Mohler
DATE:	10/17/22	**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 1041.6 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.

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

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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Date: 10/17/22

SECTION 9
TEST SPECIMEN DESCRIPTION

MATERIAL	DIMENSIONS (mm)	THICKNESS (mm)	MANUFACTURER AND SERIES	QUANTITY	AVERAGE WEIGHT
Carpet	3023 by 3632	12.6	Shaw ECO Beauty	10.98 m²	1.37 kg/m²
	Note: Loose laid				
Carpet Pad	3023 by 3632	10.3	Shaw Support PLS7/16	10.98 m²	1.12 kg/m²
	Note: Loose laid				
Gypsum Concrete	3023 by 3632	19.1	Maxxon Gyp-Crete	10.98 m²	53.8 kg/m²
	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 m²	11.67 kg/m²
	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 m²	1.32 kg/m²
	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 m²	11.91 kg/m²
	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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Report No.: P2294.06-113-11-R0
Date: 10/17/22

SECTION 10

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS

IAS ACCREDITED Testing Laboratory

TEST DATE	9/22/2022				
DATA FILE NO.	P2294.06				
CLIENT	ClarkDietrich Building Systems, LLC				
DESCRIPTION	12.58 mm Shaw ECO Beauty Carpet, 10.3 mm Shaw Support PLS7/16 Carpet Pad, 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				
SPECIMEN AREA	10.98 m²	**Receive Temp.**	22.1°C	**Source Temp.**	19.9°C
TECHNICIAN	MSJK	**Receive Humidity**	75%	**Source Humidity**	75%

FREQ (Hz)	**BACKGROUND SPL** (dB)	**ABSORPTION** m²	**SOURCE SPL** (dB)	**RECEIVE SPL** (dB)	**SPECIMEN TL** (dB)	**95% SAMPLING LIMIT**	**NUMBER OF DEFICIENCIES**
50	46.7	26.6	107	73	31	3.2	-
63	39.2	17.9	104	70	34	4.3	-
80	34.3	14.4	101	69	31	2.8	-
100	29.5	9.2	100	65	36	2.0	-
125	31.9	10.7	104	61	44	1.3	2
160	29.0	9.2	101	58	45	1.3	4
200	25.5	11.0	97	51	48	2.0	4
250	20.3	9.8	99	49	52	0.6	3
315	20.8	9.7	103	52	52	1.1	6
400	19.8	8.4	102	49	55	0.7	6
500	17.1	7.2	99	41	61	0.7	1
630	19.4	7.6	96	37	61	0.9	2
800	19.4	7.7	98	37	63	1.0	1
1000	21.6	7.4	97	35	65	0.4	0
1250	20.6	7.8	98	33	68	0.5	0
1600	17.3	7.7	98	32	68	0.7	0
2000	14.4	8.4	97	30	69	0.5	0
2500	13.0	9.4	92	26	68	0.7	0
3150	11.1	9.9	89	21	69	0.6	0
4000	9.7	10.8	90	17	74	0.8	0
5000	9.0	12.2	89	12	77	0.7	-
6300	9.1	14.3	87	10	76	0.8	-
8000	9.8	17.2	89	10	78	1.2	-
10000	10.2	17.2	88	9	78	1.5	-
STC Rating	**62**	*(Sound Transmission Class)*			**Sum of Deficiencies**		**29**

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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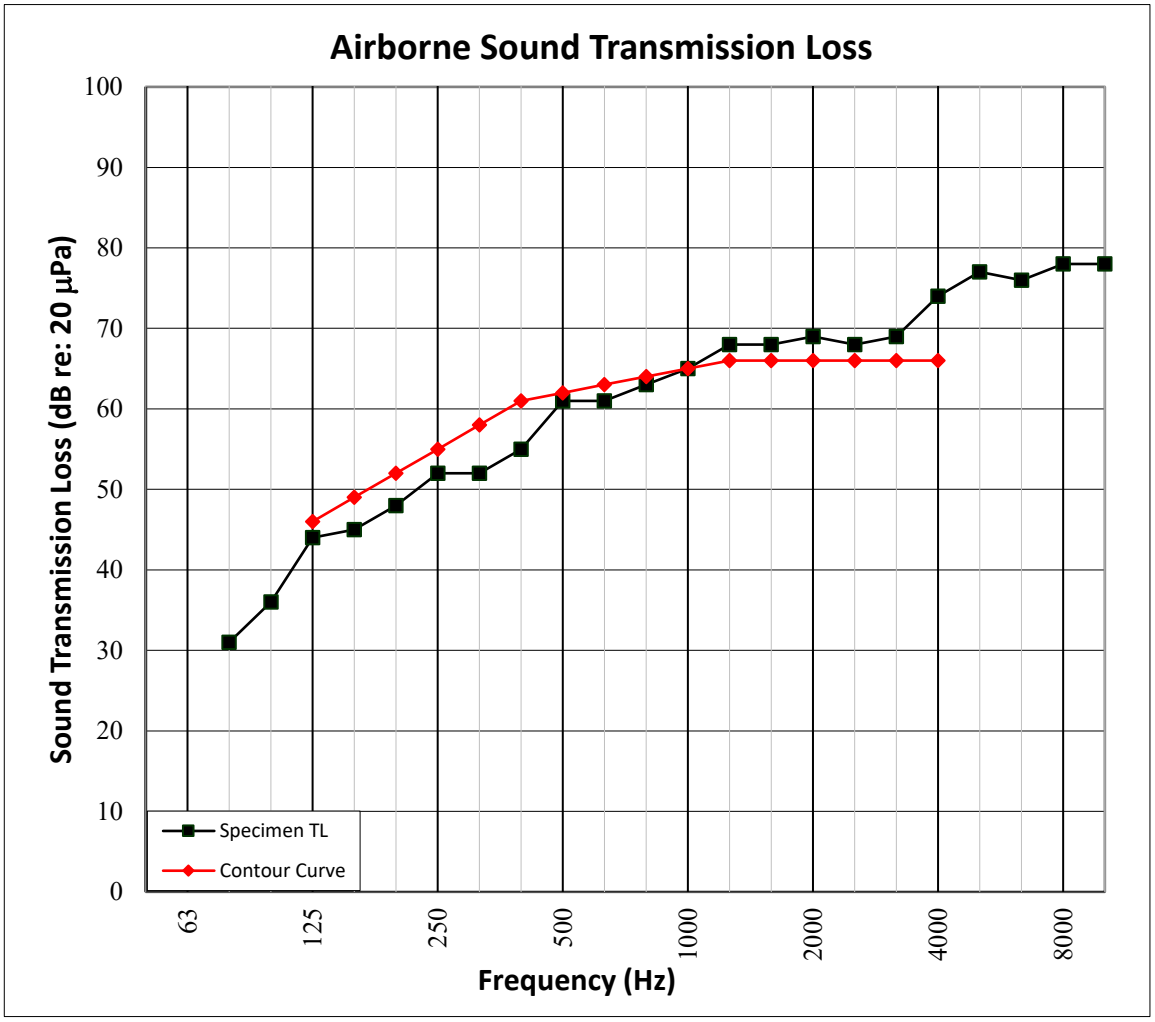
TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: P2294.06-113-11-R0
Date: 10/17/22

SECTION 11

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS GRAPH

TEST DATE	9/22/2022				
DATA FILE NO.	P2294.06				
CLIENT	ClarkDietrich Building Systems, LLC				
DESCRIPTION	12.58 mm Shaw ECO Beauty Carpet, 10.3 mm Shaw Support PLS7/16 Carpet Pad, 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				
SPECIMEN AREA	10.98 m²	**Receive Temp.**	22.1°C	**Source Temp.**	19.9°C
TECHNICIAN	MSJK	**Receive Humidity**	75%	**Source Humidity**	75%



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TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

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Date: 10/17/22

SECTION 12

TEST RESULTS - IMPACT SOUND TRANSMISSION

IAS ACCREDITED Testing Laboratory

TEST DATE	9/22/2022				
DATA FILE NO.	P2294.06				
CLIENT	ClarkDietrich Building Systems, LLC				
DESCRIPTION	12.58 mm Shaw ECO Beauty Carpet, 10.3 mm Shaw Support PLS7/16 Carpet Pad, 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				
SPECIMEN AREA	10.98 m²	**Maximum Temp.**	22.2°C	**Minimum Temp.**	22.1°C
TECHNICIAN	MSJK	**Max. Humidity**	75%	**Min. Humidity**	75%

FREQ (Hz)	**BACKGROUND SPL** (dB)	**ABSORPTION** m²	**NORMALIZED IMPACT SPL** (dB)	**95% SAMPLING LIMIT**	**NUMBER OF DEFICIENCIES**
80	35.3	13.9	48	2.3	-
100	27.8	8.7	38	1.7	8
125	36.6	11.4	30	1.0	0
160	28.8	8.9	25	0.7	0
200	29.3	10.8	22	0.5	0
250	22.4	10.1	19	0.5	0
315	22.9	10.3	22	0.5	0
400	21.4	8.4	22	0.8	0
500	20.6	7.1	17	0.6	0
630	22.9	7.7	17	0.7	0
800	22.1	7.7	18	1.2	0
1000	22.0	7.6	18	0.8	0
1250	24.3	7.9	16	0.3	0
1600	19.3	7.7	13	0.3	0
2000	16.6	8.5	11	0.3	0
2500	15.2	9.3	10	0.5	0
3150	13.5	10.0	9	0.5	0
4000	12.5	10.9	8	0.5	-
5000	11.1	12.1	8	0.5	-
6300	10.6	14.2	9	0.5	-
8000	10.4	17.3	10	0.5	-
10000	10.3	17.3	11	0.5	-
IIC Rating	**82**	*(Impact Insulation Class)*		**Sum of Deficiencies**	**8**

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

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TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: P2294.06-113-11-R0
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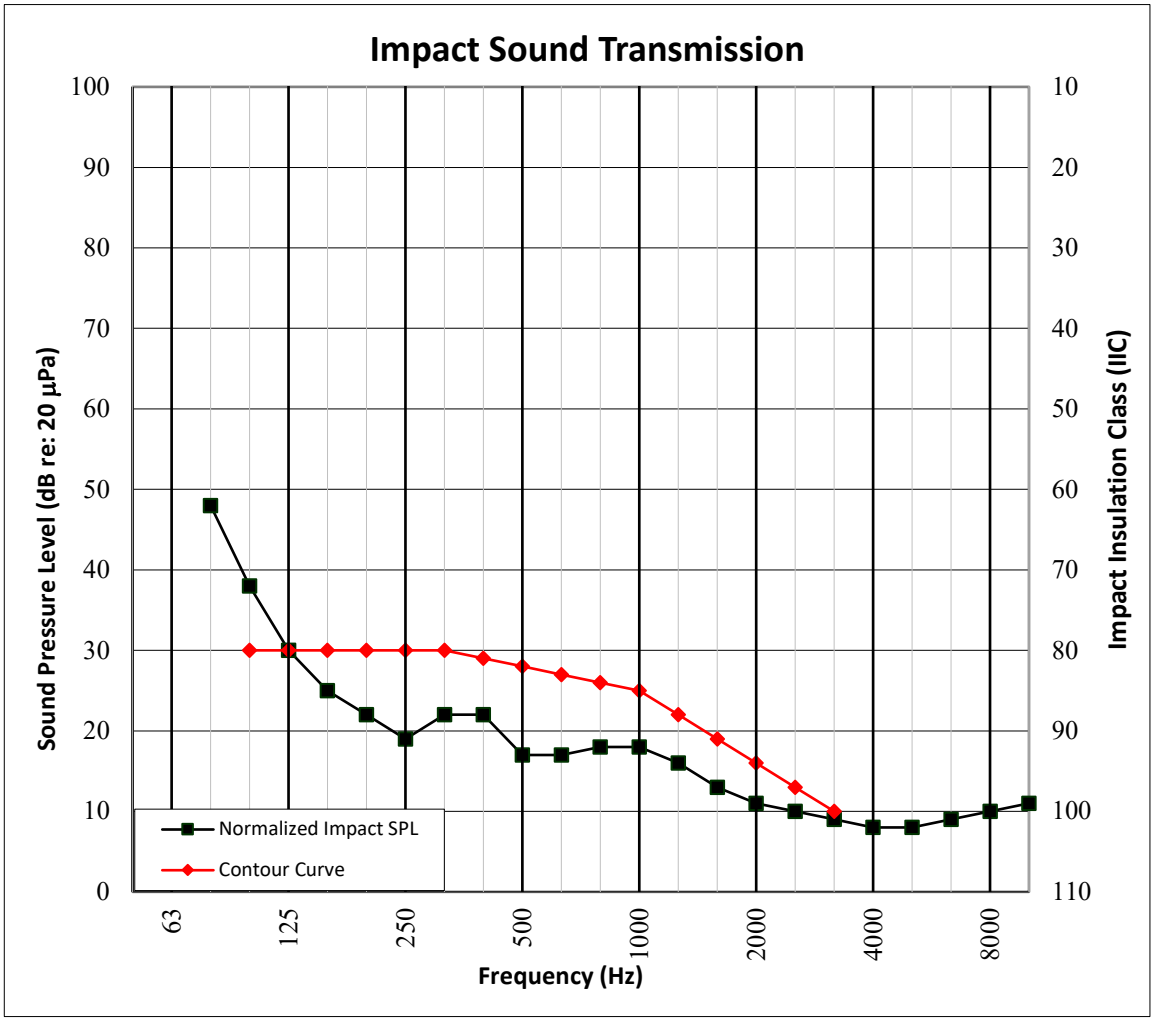
SECTION 13

TEST RESULTS - IMPACT SOUND TRANSMISSION GRAPH

TEST DATE	9/22/2022				
DATA FILE NO.	P2294.06				
CLIENT	ClarkDietrich Building Systems, LLC				
DESCRIPTION	12.58 mm Shaw ECO Beauty Carpet, 10.3 mm Shaw Support PLS7/16 Carpet Pad, 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				
SPECIMEN AREA	10.98 m²	**Maximum Temp.**	22.2°C	**Minimum Temp.**	22.1°C
TECHNICIAN	MSJK	**Max. Humidity**	75%	**Min. Humidity**	75%



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TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: P2294.06-113-11-R0
Date: 10/17/22

SECTION 14

TEST RESULTS - HIGH-FREQUENCY IMPACT SOUND TRANSMISSION

IAS ACCREDITED Testing Laboratory

TEST DATE	9/22/2022				
DATA FILE NO.	P2294.06				
CLIENT	ClarkDietrich Building Systems, LLC				
DESCRIPTION	12.58 mm Shaw ECO Beauty Carpet, 10.3 mm Shaw Support PLS7/16 Carpet Pad, 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				
SPECIMEN AREA	10.98 m²	**Maximum Temp.**	22.2°C	**Minimum Temp.**	22.1°C
TECHNICIAN	MSJK	**Max. Humidity**	75%	**Min. Humidity**	75%

FREQ (Hz)	**BACKGROUND SPL** (dB)	**ABSORPTION** m²	**NORMALIZED IMPACT SPL** (dB)	**95% SAMPLE CONFIDENCE LIMIT**	**NUMBER OF DEFICIENCIES**
400	21.4	8.4	22	0.8	0.7
500	20.6	7.1	17	0.6	0.0
630	22.9	7.7	17	0.7	0.0
800	22.1	7.7	18	1.2	0.0
1000	22.0	7.6	18	0.8	1.1
1250	24.3	7.9	16	0.3	2.3
1600	19.3	7.7	13	0.3	1.9
2000	16.6	8.5	11	0.3	2.5
2500	15.2	9.3	10	0.5	4.8
3150	13.5	10.0	9	0.5	6.5
HIIC Rating	**90**	*(High-Frequency Impact Insulation Class)*		**Sum of Deficiencies**	**19.8**

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

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TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC
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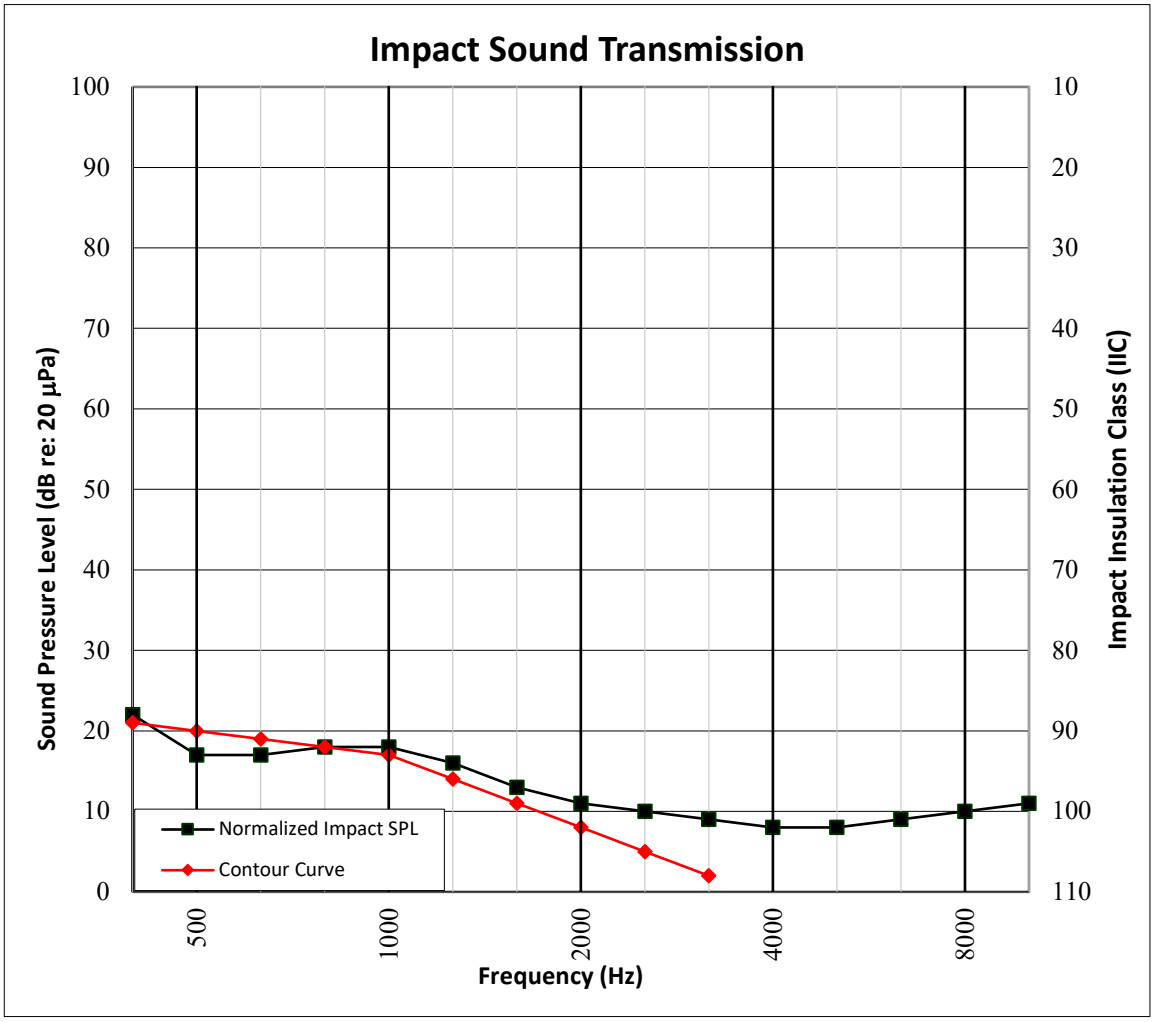
Date: 10/17/22

SECTION 15
TEST RESULTS - HIGH-FREQUENCY IMPACT SOUND TRANSMISSION GRAPH

TEST DATE	9/22/2022				
DATA FILE NO.	P2294.06				
CLIENT	ClarkDietrich Building Systems, LLC				
DESCRIPTION	12.58 mm Shaw ECO Beauty Carpet, 10.3 mm Shaw Support PLS7/16 Carpet Pad, 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				
SPECIMEN AREA	10.98 m²	**Maximum Temp.**	22.2°C	**Minimum Temp.**	22.1°C
TECHNICIAN	MSJK	**Max. Humidity**	75%	**Min. Humidity**	75%



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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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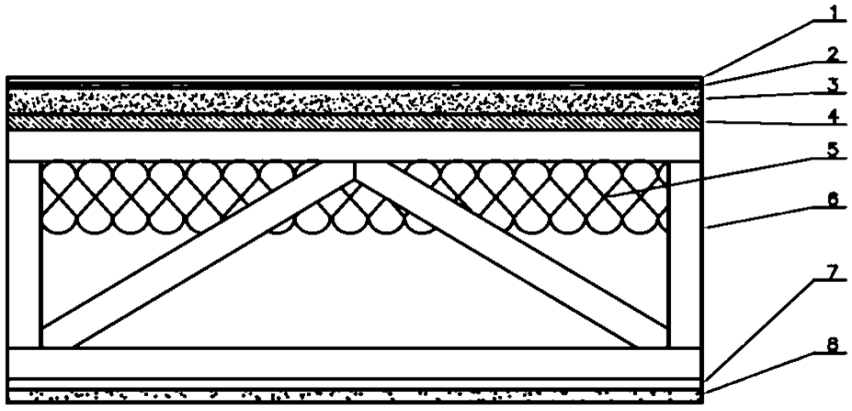
SECTION 17
DRAWING



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

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SECTION 18

REVISION LOG

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