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CLARKDIETRICH BUILDING SYSTEMS, LLC

ACOUSTICAL PERFORMANCE TEST REPORT

SCOPE OF WORK
ASTM E90 AND ASTM E492 TESTING ON EXPO LUXURY VINYL TILE

SPECIMEN TYPE
Open Web Truss - 406 mm (16") - Direct Layer USG SHEETROCK® Brand FIRECODE® C Core - ClarkDietrich® Sound Clip - Three-Layers USG SHEETROCK® Brand FIRECODE® C Core

REPORT NUMBER
J4778.08-113-11-R2

TEST DATE
03/18/19

ISSUE DATE **REVISED DATE**
04/15/19 05/25/21

RECORD RETENTION END
03/18/23

PAGES
12

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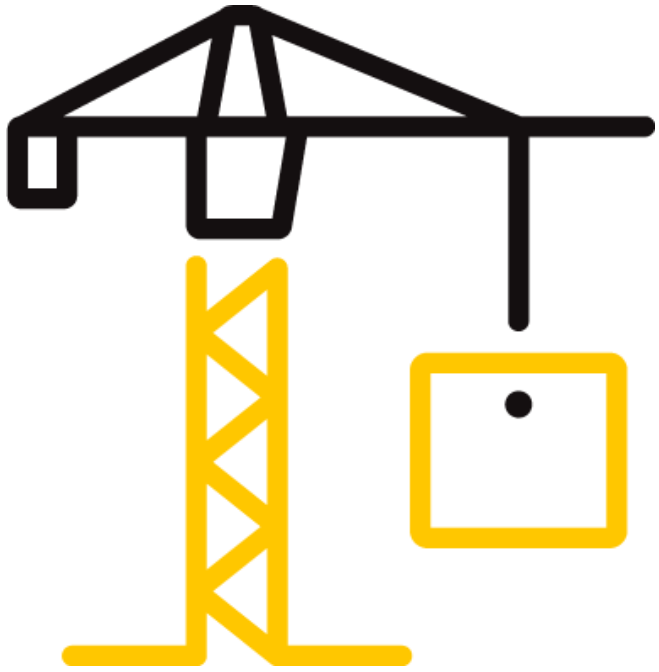

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TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: J4778.08-113-11-R2
Date: 05/25/21

REPORT ISSUED TO

CLARKDIETRICH BUILDING SYSTEMS, LLC
9100 Centre Pointe Drive, Suite 210
West Chester, Ohio 45069

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by ClarkDietrich Building Systems, LLC to perform testing in accordance with ASTM E90 AND ASTM E492 on Expo Luxury Vinyl Tile. 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.	J4778.08
SERIES/MODEL:	Expo Luxury Vinyl Tile
STC	60
IIC	52

COMPLETED BY:	Cody R. Snyder	**COMPLETED BY:**	Daniel B. Mohler
TITLE:	Technician - Acoustical Testing	**TITLE:**	Project Lead - Acoustical Testing
SIGNATURE:	Digitally Signed by: Cody Snyder	**SIGNATURE:**	Digitally Signed by: Daniel Mohler
DATE:	05/25/21	**DATE:**	05/25/21

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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 E989-18, *Classification for Determination of Impact Insulation Class (IIC)*

ASTM E2235-04 (2012), *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 client were installed on an existing B&C assembly (Open Web Truss - 406 mm (16") - Direct Layer USG SHEETROCK® Brand FIRECODE® C Core - ClarkDietrich® Sound Clip - Three-Layers USG SHEETROCK® Brand FIRECODE® C Core) 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 1409.8 kg / 3108.8 lbs. B&C will store samples of the test specimen for four years. Photographs of the test specimen are included in the report. The client did not supply drawings of the test specimen.

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 DATE	
Data Acquisition Unit	National Instruments	PXI-4462	Data Acquisition Card	INT00977	08/18	*
Data Acquisition Unit	National Instruments	PXI-4462	Data Acquisition Card	65124	05/18	*
Data Acquisition Unit	National Instruments	PXI-4462	Data Acquisition Card	63763-1	06/18	*
Microphone Calibrator	Norsonic	Nor1251	Acoustical Calibrator	65105	06/18	
Receive Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	65617	06/18	
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64340	09/18	
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	63745	06/18	
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	63746	09/18	
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	63747	07/18	
Receive Room Environmental Indicator	Comet	T7510	Temperature and Humidity Transmitter	63810	10/18	
				63811	10/18	
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	63744	04/18	
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	63739	04/18	
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	63740	04/18	
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	INT00653	01/19	
Source Room Microphone	PCB Electronics	378C20	Microphone and Preamplifier	63741	04/18	
Source Room Environmental Indicator	Comet	T7510	Temperature and Humidity Transmitter	63812	10/18	
Tapping Machine	Norsonic	Nor277	Tapping Machine	INT00936	12/18	

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

VT RECEIVE ROOM VOLUME	156.28 m^3 (5519.06 ft^3)
VT SOURCE ROOM VOLUME	190 m^3 (6709.79 ft^3)

SECTION 6
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Daniel R. Deickman	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 received 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) and IIC (Impact Insulation Class) ratings were calculated in accordance with ASTM E413 and ASTM E989, respectively.

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Date: 05/25/21

SECTION 9

TEST SPECIMEN DESCRIPTION

MATERIAL	Dimensions (mm/inch)	Thickness (mm/inch)	MANUFACTURER AND SERIES	QUANTITY	AVERAGE WEIGHT
Luxury Vinyl Tile	1219.2 by 152.4 48 by 6	2 / 0.08	Shaw Expo	10.98 m² 118.19 ft²	3.47 kg/m² 0.71 lb/ft²
	Note: A sheet of 2 mil polyethylene plastic was adhered to the subfloor topping with Sprayway Fast Tack 85 spray adhesive. The floor topping was adhered to the sheeting with a pressure sensitive adhesive, which was spread using a 0.79 mm by 1.59 mm by 0.79 mm (1/32" by 1/16" by 1/32") trowel. Adhesive was allowed to cure per manufacturer's specifications.				
Floor Underlayment	3022.6 by 3632.2 119 by 143	25.4 / 1	USG Levelrock® Brand 2500	10.98 m² 118.19 ft²	49.8 kg/m² 10.2 lb/ft²
	Note: Poured directly onto the subfloor underlayment, 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.				
Sound Attenuation Mat	3023 by 1003.3 119 by 39.5	6.4 / 0.25	USG Levelrock® Brand SAM-N25™	10.98 m² 118.19 ft²	0.49 kg/m² 0.1 lb/ft²
	Note: Loose laid with seams overlapping and taped				
Oriented Strand Board Sheathing	1219 by 2438 48 by 96	18.8 / 0.74	N/A	10.98 m² 118.19 ft²	13.82 kg/m² 2.83 lb/ft²
	Note: Fastened to trusses with 76 mm (3") by 3 mm (0.12") framing nails on 203 mm (8") centers along perimeter and 305 mm (12") centers in the field.				
Fiberglass Insulation	520.7 by 3023 20.5 by 119	88.9 / 3.5	Johns Manville Unfaced R-13	10.98 m² 118.19 ft²	1.32 kg/m² 0.27 lb/ft²
	Note: Installed into the cavities between the trusses, stapled flush to the subfloor.				
Open Web Truss	88.9 by 2933.7 3.5 by 115.5	406.4 / 16	York PB Truss L/360	7 trusses	16.93 kg/truss 37.32 lb/truss
	Note: Installed on 610 mm (24") centers using JUS414 hanger brackets.				
Gypsum Panel	1219 by 3023 48 by 119	15.9 / 0.63	USG SHEETROCK® Brand FIRECODE® C Core	10.98 m² 118.19 ft²	11.9 kg/m² 2.44 lb/ft²
	Note: Fastened directly to the trusses on 203 mm (8") centers with 41.3 mm (1-5/8") 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.				
Resilient Sound Isolation Clip	76.2 by 36.5 3 by 1.4	31.8 / 1.25	ClarkDietrich® Sound Clip	24 clips	0.06 kg/clip 0.14 lb/clip
	Note: Installed in a 610 mm by 1219 mm (24" by 48") grid pattern.				
Furring/Hat Channel	3657.6 by 76.2 144 by 3	22.3 / 0.88	ClarkDietrich® 087F125-18	21.95 lin m 72 lin ft	0.48 kg/m 0.32 lb/ft
	Note: Installed on 610 mm (24") centers perpendicular to the trusses. The measured thickness of the metal was 0.7 mm (0.03").				
Gypsum Panel	1219 by 3023 48 by 119	15.9 / 0.63	USG SHEETROCK® Brand FIRECODE® C Core	10.98 m² 118.19 ft²	11.9 kg/m² 2.44 lb/ft²
	Note: Fastened to the channels on 305 mm (12") centers with 25.4 mm (1") 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.				
Gypsum Panel	1219 by 3023 48 by 119	15.9 / 0.63	USG SHEETROCK® Brand FIRECODE® C Core	10.98 m² 118.19 ft²	11.9 kg/m² 2.44 lb/ft²
	Note: Fastened to the channels on 305 mm (12") centers with 41.3 mm (1-5/8") 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.				
Gypsum Panel	1219 by 3023 48 by 119	15.9 / 0.63	USG SHEETROCK® Brand FIRECODE® C Core	10.98 m² 118.19 ft²	11.9 kg/m² 2.44 lb/ft²
	Note: Fastened to the channels on 203 mm (8") centers with 50.8 mm (2") 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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TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: J4778.08-113-11-R2
Date: 05/25/21

SECTION 10

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS

IAS ACCREDITED Testing Laboratory

TEST DATE	3/18/2019				
DATA FILE NO.	J4778.08				
CLIENT	ClarkDietrich Building Systems, LLC				
DESCRIPTION	2 mm (0.08") Shaw Expo Luxury Vinyl Tile, 25.4 mm (1") USG Levelrock® Brand 2500 Floor Underlayment, 6.4 mm (0.25") USG Levelrock® Brand SAM-N25™ Sound Attenuation Mat, 18.8 mm (0.74") Oriented Strand Board Sheathing, 88.9 mm (3.5") Johns Manville Unfaced R-13 Fiberglass Insulation, 406.4 mm (16") York PB Truss L/360 Open Web Truss, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 31.75 mm (1.25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 Furring/Hat Channel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
SPECIMEN AREA	10.98 m²	**Receive Temp.**	19°C (66.3°F)	**Source Temp.**	18°C (64.5°F)
TECHNICIAN	DRD	**Receive Humidity**	62%	**Source Humidity**	62%

FREQ (Hz)	**BACKGROUND SPL** (dB)	**ABSORPTION** m²	**SOURCE SPL** (dB)	**RECEIVE SPL** (dB)	**SPECIMEN TL** (dB)	**95% CONFIDENCE LIMIT**	**NUMBER OF DEFICIENCIES**
50	35.6	30.9	99	62	34	3.1	-
63	36.3	32.1	99	59	37	3.3	-
80	36.6	17.5	108	67	40	2.9	-
100	31.6	12.9	105	67	38	2.5	-
125	28.9	11.1	102	64	39	1.1	5
160	26.5	10.0	104	64	41	1.1	6
200	22.9	9.8	102	57	47	1.6	3
250	19.6	9.9	100	53	48	0.8	5
315	21.1	10.0	103	53	52	0.9	4
400	18.0	8.4	101	49	54	0.9	5
500	20.6	7.9	101	47	56	0.4	4
630	22.4	7.8	102	44	61	0.6	0
800	21.4	7.8	102	40	64	0.7	0
1000	22.1	7.6	101	39	64	0.7	0
1250	16.9	7.8	101	37	67	0.6	0
1600	12.8	8.1	101	36	68	0.4	0
2000	14.0	8.9	101	36	68	0.2	0
2500	9.9	9.9	99	32	69	0.3	0
3150	7.1	10.7	101	29	74	0.5	0
4000	5.5	12.1	102	27	75	0.4	0
5000	5.5	14.0	102	25	77	0.5	-
6300	6.1	17.2	96	15	80	0.7	-
8000	6.6	22.2	95	11	82	1.0	-
10000	6.7	22.2	90	6	82	0.6	-
STC Rating	**60**	*(Sound Transmission Class)*			**Sum of Deficiencies**		**32**

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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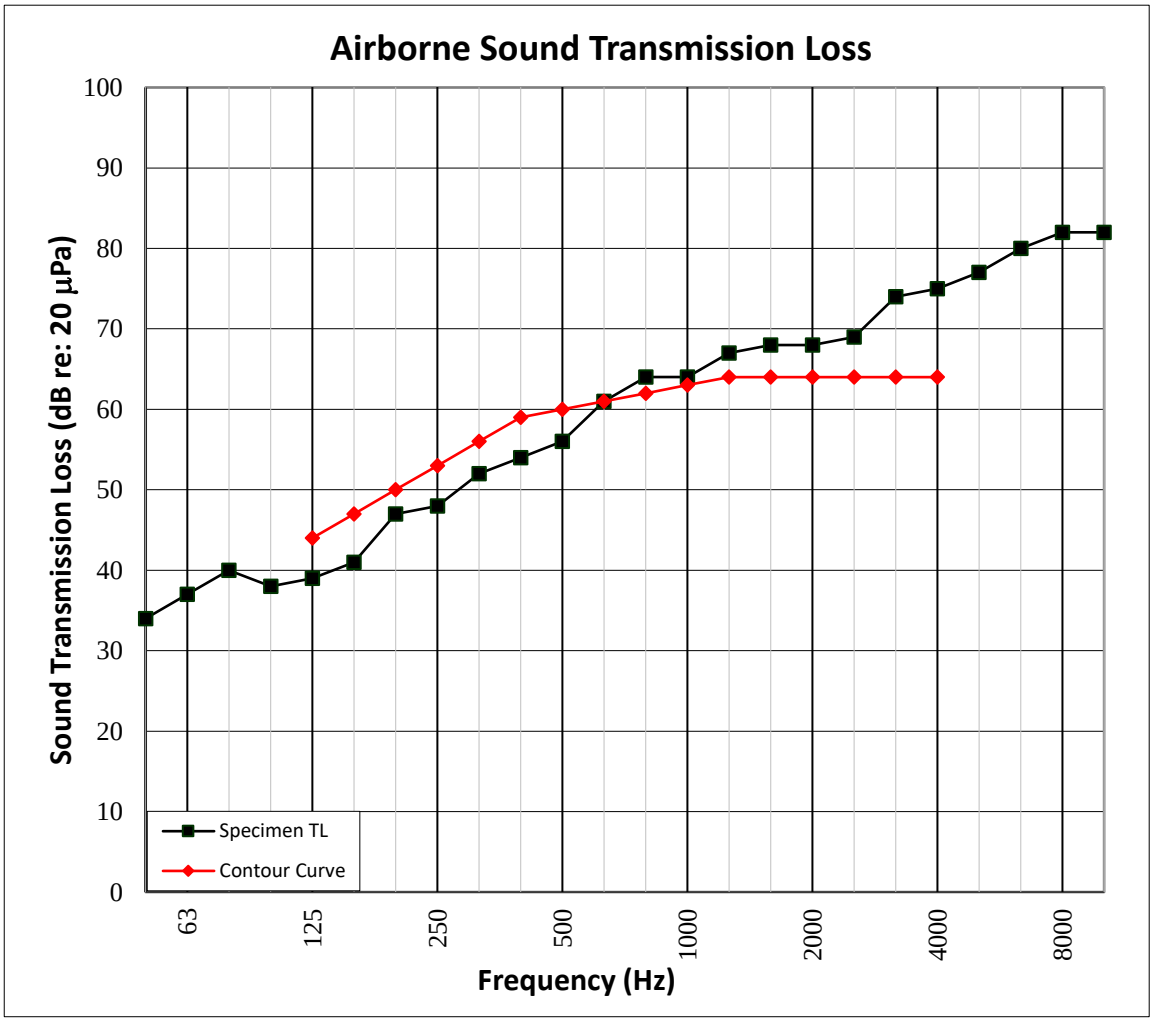
SECTION 11

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS GRAPH

TEST DATE	3/18/2019				
DATA FILE NO.	J4778.08				
CLIENT	ClarkDietrich Building Systems, LLC				
DESCRIPTION	2 mm (0.08") Shaw Expo Luxury Vinyl Tile, 25.4 mm (1") USG Levelrock® Brand 2500 Floor Underlayment, 6.4 mm (0.25") USG Levelrock® Brand SAM-N25™ Sound Attenuation Mat, 18.8 mm (0.74") Oriented Strand Board Sheathing, 88.9 mm (3.5") Johns Manville Unfaced R-13 Fiberglass Insulation, 406.4 mm (16") York PB Truss L/360 Open Web Truss, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 31.75 mm (1.25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 Furring/Hat Channel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
SPECIMEN AREA	10.98 m²	**Receive Temp.**	19°C (66.3°F)	**Source Temp.**	18°C (64.5°F)
TECHNICIAN	DRD	**Receive Humidity**	62%	**Source Humidity**	62%



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TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: J4778.08-113-11-R2
Date: 05/25/21

SECTION 12

TEST RESULTS - IMPACT SOUND TRANSMISSION

TEST DATE	3/18/2019				
DATA FILE NO.	J4778.08				
CLIENT	ClarkDietrich Building Systems, LLC				
DESCRIPTION	2 mm (0.08") Shaw Expo Luxury Vinyl Tile, 25.4 mm (1") USG Levelrock® Brand 2500 Floor Underlayment, 6.4 mm (0.25") USG Levelrock® Brand SAM-N25™ Sound Attenuation Mat, 18.8 mm (0.74") Oriented Strand Board Sheathing, 88.9 mm (3.5") Johns Manville Unfaced R-13 Fiberglass Insulation, 406.4 mm (16") York PB Truss L/360 Open Web Truss, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 31.75 mm (1.25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 Furring/Hat Channel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
SPECIMEN AREA	10.98 m²	**Maximum Temp.**	19.3°C (66.7°F)	**Minimum Temp.**	18.9°C (66°F)
TECHNICIAN	DRD	**Max. Humidity**	63%	**Min. Humidity**	60%

FREQ (Hz)	**BACKGROUND SPL** (dB)	**ABSORPTION** m²	**NORMALIZED IMPACT SPL** (dB)	**95% CONFIDENCE LIMIT**	**NUMBER OF DEFICIENCIES**
50	38.2	26.6	63	1.4	-
63	36.0	25.7	62	2.1	-
80	34.3	17.9	70	2.8	-
100	27.2	12.5	65	1.4	5
125	27.8	11.6	66	1.3	6
160	26.5	8.7	65	0.8	5
200	21.8	9.7	67	0.6	7
250	18.0	10.2	66	0.4	6
315	19.7	10.2	61	0.4	1
400	15.0	8.5	59	0.3	0
500	16.8	7.7	58	0.6	0
630	18.7	7.8	57	0.4	0
800	18.7	7.8	54	0.4	0
1000	18.0	7.7	49	0.4	0
1250	13.7	7.8	42	0.4	0
1600	10.2	8.1	39	0.4	0
2000	11.7	9.0	38	0.5	0
2500	7.9	9.9	28	0.5	0
3150	5.9	10.6	20	0.5	0
4000	5.3	12.3	13	0.6	-
5000	5.5	13.9	8	0.3	-
6300	6.1	17.2	7	0.3	-
8000	6.6	22.3	8	0.4	-
10000	6.8	22.3	8	0.5	-
IIC Rating	**52**	*(Impact Insulation Class)*		**Sum of Deficiencies**	**30**

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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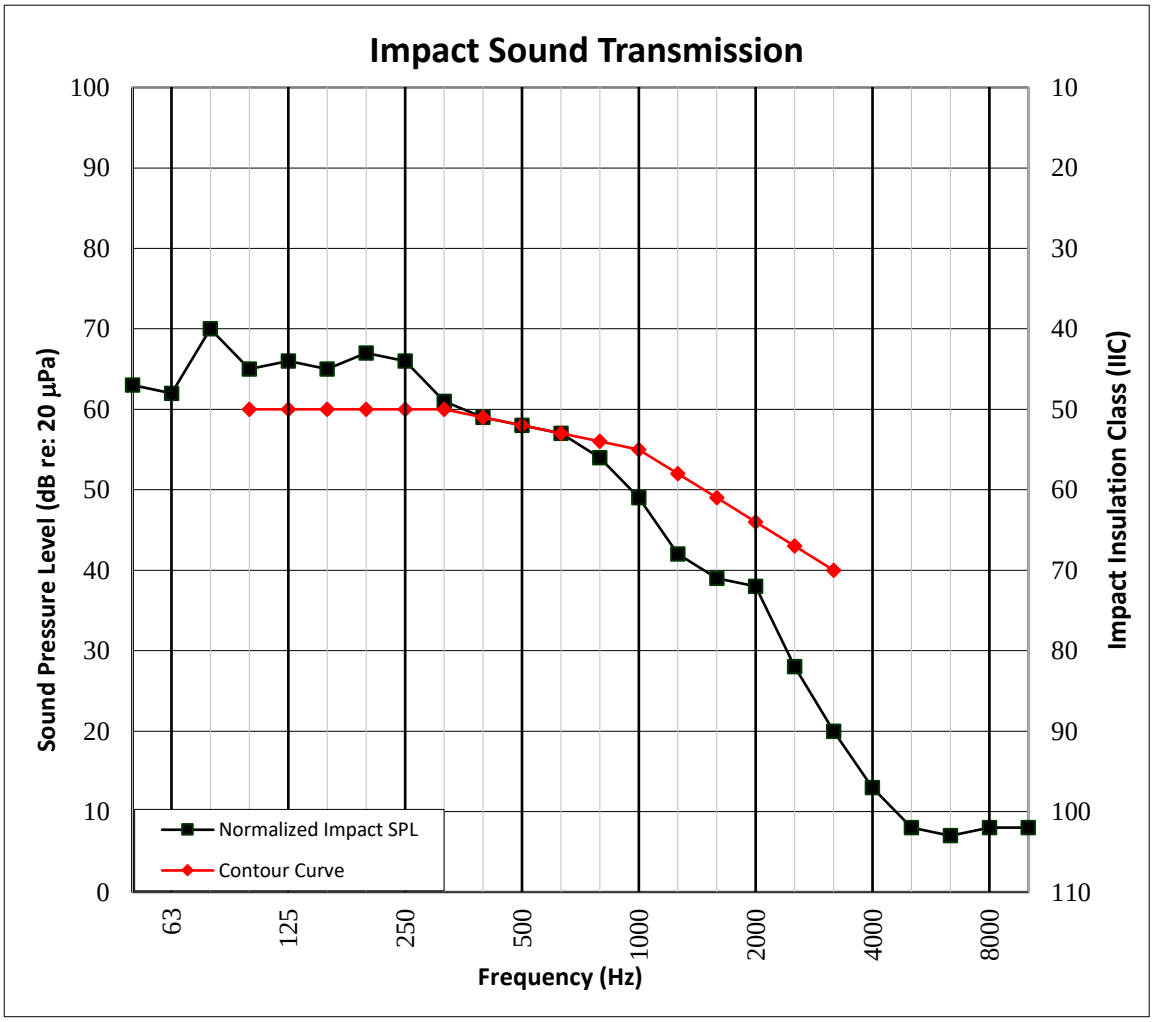
SECTION 13

TEST RESULTS - IMPACT SOUND TRANSMISSION GRAPH

TEST DATE	3/18/2019				
DATA FILE NO.	J4778.08				
CLIENT	ClarkDietrich Building Systems, LLC				
DESCRIPTION	2 mm (0.08") Shaw Expo Luxury Vinyl Tile, 25.4 mm (1") USG Levelrock® Brand 2500 Floor Underlayment, 6.4 mm (0.25") USG Levelrock® Brand SAM-N25™ Sound Attenuation Mat, 18.8 mm (0.74") Oriented Strand Board Sheathing, 88.9 mm (3.5") Johns Manville Unfaced R-13 Fiberglass Insulation, 406.4 mm (16") York PB Truss L/360 Open Web Truss, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 31.75 mm (1.25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 Furring/Hat Channel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
SPECIMEN AREA	10.98 m²	**Maximum Temp.**	19.3°C (66.7°F)	**Minimum Temp.**	18.9°C (66°F)
TECHNICIAN	DRD	**Max. Humidity**	63%	**Min. Humidity**	60%



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SECTION 14
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 15
REVISION LOG

REVISION #	DATE	PAGES	DESCRIPTION
R0	04/15/19	N/A	Original Report Issue
R1	05/20/19	All	Sound clip name corrected
R2	05/25/21	Page 6	Corrected template error