

CLARKDIETRICH BUILDING SYSTEMS, LLC ACOUSTICAL PERFORMANCE

SCOPE OF WORK

ASTM E90 AND ASTM E492 TESTING ON EXPO LUXURY VINYL TILE

SPECIMEN TYPE

ClarkDietrich TradeReady® Steel Joist - 254 mm (10") - ClarkDietrich® Sound Clip - Two-Layers USG SHEETROCK® Brand FIRECODE® C Core

REPORT NUMBER

J4775.07-113-11-R1

TEST DATE

03/22/19

ISSUE DATE

REVISED DATE

TEST REPORT

04/15/19 05/20/19

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TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: J4775.07-113-11-R1

Date: 05/20/19

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.	J4775.07
SERIES/MODEL:	Expo Luxury Vinyl Tile
STC	58
IIC	51

COMPLETED BY: Cody R. Snyder **COMPLETED BY:** Daniel B. Mohler Technician - Acoustical Project Lead - Acoustical TITLE: TITLE: **Testing** Testing **SIGNATURE: SIGNATURE: DATE:** 05/20/19 DATE: 05/20/19

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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 (ClarkDietrich TradeReady® Steel Joist - 254 mm (10") - ClarkDietrich® Sound Clip - Two-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 1009.9 kg / 2226.5 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 DAT	Έ
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	Comet	T7510	Temperature and Humidity	63810	10/18	
Indicator	Comet	1/510	Transmitter	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	156.8 m³ (5537.26 ft³)
VT SOURCE ROOM VOLUME	190 m³ (6709.79 ft³)

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Michael K. Daniel	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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SECTION 9

TEST SPECIMEN DESCRIPTION

MATERIAL	Dimensions	Thickness	MANUFACTURER AND	CHANTITY	AVERAGE					
IVIATERIAL	(mm/inch)	(mm/inch)	SERIES	QUANTITY	WEIGHT					
	1219.2 by 152.4 48 by 6	2 / 0.08	Shaw Expo	10.98 m ² 118.19 ft ²	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								
Luxury Vinyl Tile			ping was adhered to the sheet							
		•	.79 mm by 1.59 mm by 0.79 m							
			nufacturer's specifications.	III (1/32 by 1/10	by 1/32 / trower					
	3023 by 3632	Ved to care per ma	USG Levelrock® Brand CSD®	10.98 m²	45.89 kg/m²					
	119 by 143	25.4 / 1	Early Exposure™	118.19 ft ²	9.4 lb/ft ²					
Floor		tly onto the subflo	or underlayment, cured a mini							
Underlayment			ation. No noticeable shrinkage							
	3023 by 1003.3	6.4./0.25	USG Levelrock® Brand SAM-	10.98 m²	0.49 kg/m ²					
Sound Attenuation	119 by 39.5	6.4 / 0.25	N25™	118.19 ft²	0.1 lb/ft²					
Mat	Note: Loose laid w	ith seams overlapp	ing and taped							
	3023 by 914.4	116/057	22.6	10.98 m²	6.7 kg/m ²					
	119 by 36	14.6 / 0.57	22-Gauge Corrugated	118.19 ft ²	1.37 lb/ft ²					
Steel Floor Deck	Note: Installed in a test frame flush to the source room. Flutes filled with FIRM-FILL® CSD. The depth of the deck flutes was 14.3 mm (9/16") and the measured thickness of the metal was 0.7 mm (0.03").									
	520.7 by 3023	00.0./2.5	Johns Manville Unfaced R-13	10.98 m²	1.32 kg/m ²					
Fiberglass	20.5 by 119	88.9 / 3.5	118.19 ft ²	0.27 lb/ft ²						
Insulation	Note: Installed into the cavities between the joists, draped across furring/hat Channel.									
	3023 by 3632	254 / 40		21.16 lin m	4.78 kg/m					
Steel Joist	119 by 143	254 / 10	ClarkDietrich TradeReady®	69.42 lin ft	3.21 lb/ft					
3100131	Note: Installed on 610 mm (24") centers using Trade Ready® rim track.									
Resilient Sound	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					
Isolation Clip	Note: Installed in a	610 mm by 1219 r	mm (24" by 48") grid pattern.							
	3657.6 by 76.2	22.2.40.02	CL D: : @ 0075405 : 5	21.95 lin m	0.48 kg/m					
Furring/Hat	144 by 3	22.3 / 0.88	ClarkDietrich® 087F125-18	72 lin ft	0.32 lb/ft					
Channel	Note: Installed on 610 mm (24") centers perpendicular to the joists. The measured thickness of the metal was 0.7 mm (0.03").									
	1219 by 3023	15.9 / 0.63	USG SHEETROCK® Brand	10.98 m²	11.9 kg/m²					
	48 by 119	13.9 / 0.03	FIRECODE® C Core	118.19 ft²	2.44 lb/ft ²					
Gypsum Panel	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.									
	1219 by 3023	15.0.10.00	USG SHEETROCK® Brand	10.98 m²	11.9 kg/m ²					
	48 by 119	15.9 / 0.63	FIRECODE® C Core	118.19 ft²	2.44 lb/ft ²					
Gypsum Panel		the channels on 20	•	•	*					
- , pod dilei	Note: Fastened to the channels 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.									



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SECTION 10

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS

TEST DATE	3/22/2019	22/2019				
DATA FILE NO.	J4775.07	775.07				
CLIENT	ClarkDietrich Bu	rkDietrich Building Systems, LLC ACCREDITE Testing Laborators				
DESCRIPTION	mm (0.25") USG Levelro Deck, 88.9 mm (3.5") Joh 31.75 mm (1.25") ClarkD	mm (0.08") Shaw Expo Luxury Vinyl Tile, 25.4 mm (1") USG Levelrock® Brand CSD® Early Exposure™ Floor Underlayment, 6.4 m (0.25") USG Levelrock® Brand SAM-N25™ Sound Attenuation Mat, 14.57 mm (0.57") 22-Gauge Corrugated Steel Floor eck, 88.9 mm (3.5") Johns Manville Unfaced R-13 Fiberglass Insulation, 254 mm (10") ClarkDietrich TradeReady® Steel Joist, 1.75 mm (1.25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 urring/Hat Channel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") USG				
SPECIMEN AREA	10.98 m²	Receive Temp.	20.6°C (69°F)	Source Temp.	19.3°C (66.7°F)	
TECHNICIAN	MKD	Receive Humidity	58%	Source Humidity	58%	

EDEO	BACKGROUND	ABSORPTION	SOURCE	RECEIVE	SPECIMEN	95%	NUMBER
FREQ	SPL	ABSURPTION	SPL	SPL	TL	CONFIDENCE	OF
(Hz)	(dB)	m²	(dB)	(dB)	(dB)	LIMIT	DEFICIENCIES
50	36.4	27.3	100	59	38	2.6	-
63	36.5	25.2	100	58	39	3.8	-
80	33.5	16.1	108	68	40	4.4	-
100	29.1	11.9	105	66	41	2.3	-
125	30.8	11.3	104	63	42	1.4	0
160	28.0	9.0	103	63	42	1.4	3
200	23.7	10.6	102	55	48	1.7	0
250	21.5	10.1	100	50	51	1.0	0
315	23.2	9.7	103	52	53	0.5	1
400	18.0	8.4	102	50	54	0.8	3
500	19.4	8.0	102	52	52	0.3	6
630	23.0	7.7	103	50	55	0.5	4
800	23.6	7.8	101	49	54	0.4	6
1000	24.8	7.9	101	45	57	0.5	4
1250	20.0	7.6	101	40	64	0.4	0
1600	15.6	8.1	101	36	68	0.4	0
2000	16.3	9.0	101	35	69	0.4	0
2500	11.6	9.9	100	32	69	0.4	0
3150	10.8	10.9	101	30	72	0.4	0
4000	8.4	12.5	102	30	73	0.4	0
5000	8.1	14.1	101	27	74	0.5	-
6300	8.8	17.8	95	18	76	0.6	-
8000	9.0	23.2	95	17	76	0.9	-
10000	8.1	23.2	90	11	76	0.8	-
STC Ratin	<mark>g</mark> 58	(Sound Transmi	ssion Class)		Sum o	f Deficiencies	27

Notes:

- 1) Receive Room levels less than 5 dB above the Background levels are highlighted in yellow.
- 2) Specimen TL levels listed in $\ensuremath{\textit{red}}$ are potentially limited by the laboratory flanking limit.
- 3) Specimen TL levels listed in <u>blue</u> 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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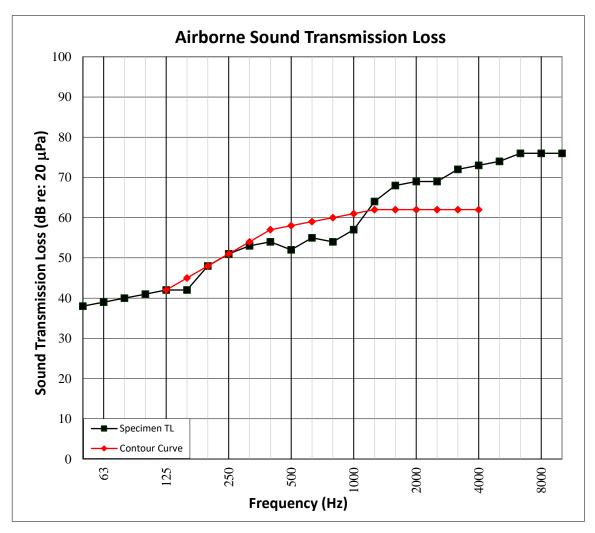
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SECTION 11

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS GRAPH

TEST DATE	3/22/2019					
DATA FILE NO.	J4775.07	1775.07				
CLIENT	ClarkDietrich Bu	ACCRE Testing L.				
DESCRIPTION	mm (0.25") USG Levelro Deck, 88.9 mm (3.5") Joh 31.75 mm (1.25") ClarkD Furring/Hat Channel, 15.	mm (0.08") Shaw Expo Luxury Vinyl Tile, 25.4 mm (1") USG Levelrock® Brand CSD® Early Exposure™ Floor Underlayment, 6.4 mm (0.25") USG Levelrock® Brand SAM-N25™ Sound Attenuation Mat, 14.57 mm (0.57") 22-Gauge Corrugated Steel Floor eck, 88.9 mm (3.5") Johns Manville Unfaced R-13 Fiberglass Insulation, 254 mm (10") ClarkDietrich TradeReady® Steel Joist, 1.75 mm (1.25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 urring/Hat Channel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") USG HEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") USG				
SPECIMEN AREA	10.98 m ²	Receive Temp.	20.6°C (69°F)	Source Temp.	19.3°C (66.7°F)	
TECHNICIAN	MKD	Receive Humidity	58%	Source Humidity	58%	





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SECTION 12

TEST RESULTS - IMPACT SOUND TRANSMISSION

TEST DATE	3/22/2019					
DATA FILE NO.	J4775.07	·				
CLIENT		rkDietrich Building Systems, LLC ACCRI Testing I				
DESCRIPTION	mm (0.25") USG Levelro Deck, 88.9 mm (3.5") Jol 31.75 mm (1.25") ClarkD Furring/Hat Channel, 15	mm (0.08") Shaw Expo Luxury Vinyl Tile, 25.4 mm (1") USG Levelrock® Brand CSD® Early Exposure™ Floor Underlayment, 6.4 mm (0.25") USG Levelrock® Brand SAM-N25™ Sound Attenuation Mat, 14.57 mm (0.57") 22-Gauge Corrugated Steel Floor eck, 88.9 mm (3.5") Johns Manville Unfaced R-13 Fiberglass Insulation, 254 mm (10") ClarkDietrich TradeReady® Steel Joist,75 mm (1.25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 urring/Hat Channel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") USG				
SPECIMEN AREA	10.98 m²	Maximum Temp.	20.6°C (69.1°F)	Minimum Temp.	20.4°C (68.8°F)	
TECHNICIAN	MKD	Max. Humidity	59%	Min. Humidity	58%	

FREQ	BACKGROUND SPL	ABSORPTION	NORMALIZED IMPACT SPI	95% CONFIDENCE	NUMBER OF
(Hz)	(dB)	m²	(dB)	LIMIT	DEFICIENCIES
50	37.6	30.2	66	1.2	-
63	37.1	27.7	61	2.5	-
80	36.9	16.4	62	1.6	-
100	29.7	12.3	61	1.1	0
125	31.6	11.0	63	1.4	2
160	28.1	9.0	63	0.8	2
200	24.1	10.3	62	0.4	1
250	24.1	10.3	62	0.5	1
315	27.3	9.7	61	0.5	0
400	19.1	8.2	63	0.3	3
500	19.3	8.1	63	0.4	4
630	23.6	7.8	63	0.2	5
800	22.1	7.8	64	0.1	7
1000	23.1	7.9	61	0.2	5
1250	19.5	7.7	54	0.3	1
1600	15.2	8.0	47	0.2	0
2000	16.2	9.0	45	0.2	0
2500	11.0	10.0	41	0.3	0
3150	8.7	10.8	36	0.3	0
4000	6.9	12.4	30	0.4	-
5000	6.3	14.1	23	0.4	-
6300	6.5	17.7	14	0.7	-
8000	6.8	23.3	13	1.0	-
10000	6.8	23.3	12	1.1	-
IIC Rating	5 1	(Impact Insulati	on Class)	Sum of Deficiencies	31

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



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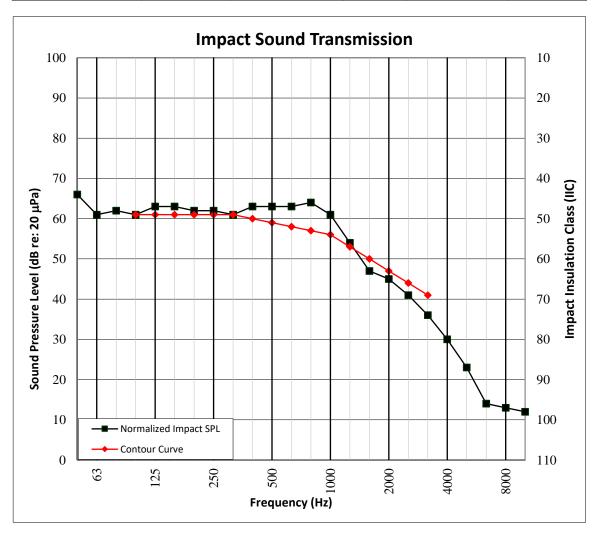
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SECTION 13

TEST RESULTS - IMPACT SOUND TRANSMISSION GRAPH

TEST DATE DATA FILE NO.	3/22/2019 J4775.07	1775.07				
CLIENT	ClarkDietrich Bu	ACC Testin				
DESCRIPTION	mm (0.25") USG Levelro Deck, 88.9 mm (3.5") Joh 31.75 mm (1.25") ClarkD	mm (0.08") Shaw Expo Luxury Vinyl Tile, 25.4 mm (1") USG Levelrock® Brand CSD® Early Exposure™ Floor Underlayment, 6.4 m (0.25") USG Levelrock® Brand SAM-N25™ Sound Attenuation Mat, 14.57 mm (0.57") 22-Gauge Corrugated Steel Floor eck, 88.9 mm (3.5") Johns Manville Unfaced R-13 Fiberglass Insulation, 254 mm (10") ClarkDietrich TradeReady® Steel Joist, L.75 mm (1.25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 urring/Hat Channel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") USG				
SPECIMEN AREA	10.98 m²	Maximum Temp.	20.6°C (69.1°F)	Minimum Temp.	20.4°C (68.8°F)	
TECHNICIAN	MKD	Max. Humidity	59%	Min. Humidity	58%	





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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