

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") - ClarkDietrich® Sound Clip - Three-Layers USG SHEETROCK® Brand FIRECODE® C Core

REPORT NUMBER

J4777.08-113-11-R1

TEST DATE

03/12/19

ISSUE DATE

REVISED DATE

04/15/19

05/20/19

RECORD RETENTION END

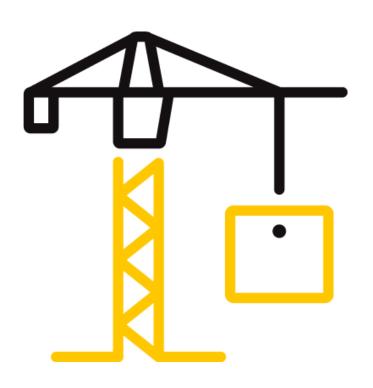
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PAGES

12

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TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: J4777.08-113-11-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.	J4777.08
SERIES/MODEL:	Expo Luxury Vinyl Tile
STC	62
IIC	57

COMPLETED BY: Cody R. Snyder **COMPLETED BY:** Jordan Strybos Technician - Acoustical Engineer, Team Lead -TITLE: TITLE: **Acoustical 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 (Open Web Truss - 406 mm (16") - 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 1283.4 kg / 2829.6 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	ΓE
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	17510	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	156.28 m³ (5519.06 ft³)
VT SOURCE ROOM VOLUME	190 m³ (6709.79 ft³)

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Daniel R. Deickman	Intertek B&C
Jordan Strybos	Intertek B&C

Version: 09/19/17 Page 4 of 12 RTTDS-R-AMER-Test-2844



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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

MAATERIAL	Dimensions	Thickness	MANUFACTURER AND	CHANTITY	AVERAGE			
MATERIAL	(mm/inch)	(mm/inch)	SERIES	QUANTITY	WEIGHT			
	1219.2 by 152.4	2 / 2 22	s	10.98 m²	3.47 kg/m ²			
	48 by 6	2 / 0.08	Shaw Expo	118.19 ft ²	0.71 lb/ft ²			
Luxury Vinyi Tile	Tack 85 spray adh adhesive, which w	esive. The floor top as spread using a (plastic was adhered to the subf oping was adhered to the sheet 0.79 mm by 1.59 mm by 0.79 m anufacturer's specifications.	ting with a pressu	re sensitive			
	3022.6 by 3632.2	25.4.44		10.98 m²	49.8 kg/m ²			
	119 by 143	25.4 / 1	USG Levelrock® Brand 2500	118.19 ft²	10.2 lb/ft ²			
Underlayment		•	oor underlayment, cured a min lation. No noticeable shrinkage	•				
	3023 by 1003.3	6.4 / 0.25	USG Levelrock® Brand SAM-	10.98 m²	0.49 kg/m ²			
	119 by 39.5	0.4 / 0.25	N25™	118.19 ft ²	0.1 lb/ft ²			
Иat	Note: Loose laid w	rith seams overlap	ping and taped					
	1219 by 2438	I		10.98 m²	13.82 kg/m ²			
	, 48 by 96	18.8 / 0.74	N/A	118.19 ft²	2.83 lb/ft ²			
	•	trusses with 76 m	m (3") by 3 mm (0.12") framing					
0	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.							
	520.7 by 3023	00.0./2.5		10.98 m²	1.32 kg/m ²			
iberglass	20.5 by 119	88.9 / 3.5	Johns Manville Unfaced R-13	118.19 ft ²	0.27 lb/ft ²			
nsulation	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/trus 37.32 lb/trus			
•	Note: Installed on 610 mm (24") centers using JUS414 hanger brackets.							
Daciliant Cound	76.2 by 36.5 3 by 1.4	31.8 / 1.25	ClarkDietrich® Sound Clip	36 clips	0.06 kg/clip 0.14 lb/clip			
solation Clip	Note: Installed in a	a 406 mm by 1219	mm (16" by 48") grid pattern.					
	3657.6 by 76.2	<u> </u>	T	29.1 lin m	0.48 kg/m			
	144 by 3	22.3 / 0.88	ClarkDietrich® 087F125-18	95.47 lin ft	0.32 lb/ft			
٠.	•	406 mm (16") cen	ters perpendicular to the trusse					
on anner	Note: Installed on 406 mm (16") centers perpendicular to the trusses. The measured thickness of the metal was 0.7 mm (0.03").							
	1219 by 3023		USG SHEETROCK® Brand	10.98 m²	11.9 kg/m²			
	48 by 119	15.9 / 0.63	FIRECODE® C Core	118.19 ft ²	2.44 lb/ft ²			
Gypsum Panel	Note: Fastened to	the channels on 3	05 mm (12") centers with 25.4	mm (1") Type S b	ugle head screws			
	sensitive tape.	gypsum panels we	re sealed with Pecora AC-20 FT					
	1219 by 3023	15.9 / 0.63	USG SHEETROCK® Brand	10.98 m²	11.9 kg/m ²			
	48 by 119	·	FIRECODE® C Core	118.19 ft²	2.44 lb/ft ²			
<i>'</i> · ·			05 mm (12") centers with 41.3		•			
			nels were sealed with Pecora A	C-20 FTR caulk ar	nd covered with			
	pressure sensitive	tape.	LICC CHEETDOOM® D	10.00 - 2	14.01.7.2			
	1219 by 3023	15.9 / 0.63	USG SHEETROCK® Brand	10.98 m ²	11.9 kg/m²			
	48 by 119	the channels are 3	FIRECODE® C Core 03 mm (8") centers with 50.8 n	118.19 ft ²	2.44 lb/ft²			
Gypsum Panel			re sealed with Pecora AC-20 FT		•			



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Date: 05/20/19

SECTION 10

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS

TEST DATE	3/12/2019					
DATA FILE NO.	J4777.08	777.08				
CLIENT	ClarkDietrich Bu	rkDietrich Building Systems, LLC ACCREDITE Testing Laborator				
DESCRIPTION	Levelrock® Brand SAM-N Johns Manville Unfaced ClarkDietrich® Sound Cli mm (0.63") USG SHEETR	mm (0.08") Shaw Expo Luxury Vinyl Tile, 25.4 mm (1") USG Levelrock® Brand 2500 Floor Underlayment, 6.4 mm (0.25") USG evelrock® Brand SAM-N25™ Sound Attenuation Mat, 18.8 mm (0.74") Oriented Strand Board Sheathing, 88.9 mm (3.5") ohns Manville Unfaced R-13 Fiberglass Insulation, 406.4 mm (16") York PB Truss L/360 Open Web Truss, 31.75 mm (1.25") larkDietrich® 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 ore Gypsum Panel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C ore 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, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
SPECIMEN AREA	10.98 m²	Receive Temp.	18.9°C (65.9°F)	Source Temp.	17.2°C (62.9°F)	
TECHNICIAN	DRD	Receive Humidity	63%	Source Humidity	63%	

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	36.7	29.1	99	61	36	2.3	-
63	36.2	25.0	98	60	36	3.4	-
80	40.9	17.6	107	66	40	3.1	-
100	32.1	12.6	104	65	40	2.2	-
125	28.7	11.3	102	64	39	1.4	7
160	27.6	9.7	105	63	44	1.1	5
200	22.3	9.5	101	54	49	1.7	3
250	19.6	10.2	100	50	51	0.9	4
315	23.7	9.9	103	50	55	1.0	3
400	19.3	8.2	102	47	58	1.0	3
500	22.1	8.0	102	46	59	0.5	3
630	24.4	7.8	103	44	61	0.7	2
800	24.2	7.8	102	42	63	0.4	1
1000	23.1	7.7	101	40	64	0.4	1
1250	18.5	7.7	102	37	68	0.4	0
1600	12.5	7.7	102	36	69	0.5	0
2000	11.9	8.8	102	36	67	0.4	0
2500	8.3	9.6	100	33	69	0.3	0
3150	6.0	10.6	101	29	74	0.4	0
4000	5.2	12.1	103	28	75	0.5	0
5000	5.4	14.1	102	25	77	0.4	-
6300	6.0	17.6	96	15	80	0.7	-
8000	6.5	23.1	96	12	82	0.9	-
10000	6.7	23.1	90	6	82	0.6	-
STC Ratin	<mark>g</mark> 62	(Sound Transmi	ssion Class)		Sum o	f 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 $\ensuremath{\textit{red}}$ 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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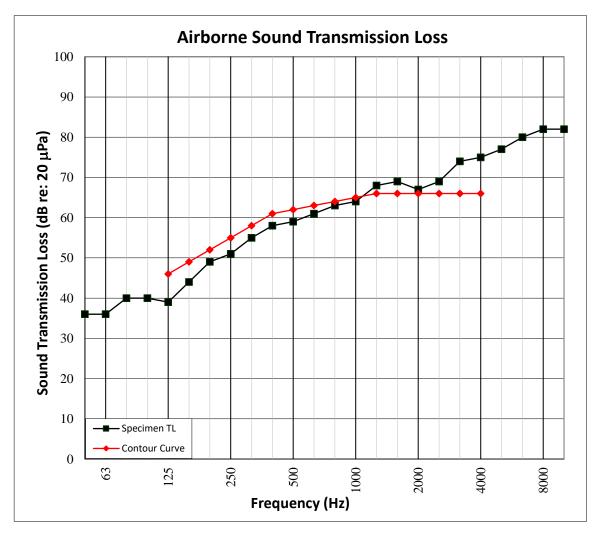
Report No.: J4777.08-113-11-R1

Date: 05/20/19

SECTION 11

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS GRAPH

TEST DATE DATA FILE NO.	3/12/2019 J4777.08				ACCREDITED	
CLIENT	ClarkDietrich Bu	rkDietrich Building Systems, LLC				
DESCRIPTION	Levelrock® Brand SAM-N Johns Manville Unfaced ClarkDietrich® Sound Clip mm (0.63") USG SHEETR	mm (0.08") Shaw Expo Luxury Vinyl Tile, 25.4 mm (1") USG Levelrock® Brand 2500 Floor Underlayment, 6.4 mm (0.25") USG evelrock® Brand SAM-N25™ Sound Attenuation Mat, 18.8 mm (0.74") Oriented Strand Board Sheathing, 88.9 mm (3.5") ohns Manville Unfaced R-13 Fiberglass Insulation, 406.4 mm (16") York PB Truss L/360 Open Web Truss, 31.75 mm (1.25") larkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 Furring/Hat Channel, 15.9 nm (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, 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, 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, 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, 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, 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, 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.	18.9°C (65.9°F)	Source Temp.	17.2°C (62.9°F)	
TECHNICIAN	DRD	Receive Humidity	63%	Source Humidity	63%	





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Date: 05/20/19

SECTION 12

TEST RESULTS - IMPACT SOUND TRANSMISSION

TEST DATE	3/12/2019	12/2019				
DATA FILE NO.	J4777.08	777.08				
CLIENT	ClarkDietrich Bu	arkDietrich Building Systems, LLC				
DESCRIPTION	Levelrock® Brand SAM-N Johns Manville Unfaced ClarkDietrich® Sound Clip mm (0.63") USG SHEETR	mm (0.08") Shaw Expo Luxury Vinyl Tile, 25.4 mm (1") USG Levelrock® Brand 2500 Floor Underlayment, 6.4 mm (0.25") USG evelrock® Brand SAM-N25™ Sound Attenuation Mat, 18.8 mm (0.74") Oriented Strand Board Sheathing, 88.9 mm (3.5") ohns Manville Unfaced R-13 Fiberglass Insulation, 406.4 mm (16") York PB Truss L/360 Open Web Truss, 31.75 mm (1.25") larkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 Furring/Hat Channel, 15.9 nm (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, 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, 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, 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, 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, 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.	18.9°C (66.1°F)	Minimum Temp.	18.8°C (65.8°F)	
TECHNICIAN	DRD	Max. Humidity	64%	Min. Humidity	63%	

FREQ	BACKGROUND SPL	ABSORPTION	NORMALIZED IMPACT SPL	95% CONFIDENCE	NUMBER OF
(Hz)	(dB)	m²	(dB)	LIMIT	DEFICIENCIES
50	36.7	24.5	62	1.8	-
63	34.7	27.4	59	2.9	-
80	34.7	17.4	57	0.9	-
100	30.2	12.9	62	1.3	7
125	27.8	10.8	62	1.2	7
160	26.5	9.6	59	0.7	4
200	21.8	10.0	57	0.4	2
250	19.0	10.1	60	0.7	5
315	22.9	9.6	57	0.4	2
400	16.3	8.3	54	0.5	0
500	21.7	8.0	54	0.3	1
630	24.0	7.7	53	0.3	1
800	22.2	7.7	53	0.2	2
1000	22.0	7.8	48	0.3	0
1250	18.5	7.6	41	0.2	0
1600	12.1	7.6	38	0.2	0
2000	12.5	8.7	38	0.3	0
2500	9.6	9.6	32	0.3	0
3150	6.9	10.7	25	0.5	0
4000	5.6	12.2	16	0.7	-
5000	5.8	14.1	8	0.4	-
6300	6.1	17.8	7	0.3	-
8000	6.6	22.8	8	0.4	-
10000	6.8	22.8	8	0.5	-
IIC Rating	57	(Impact Insulati	on Class)	oum of Deficiencies	31

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

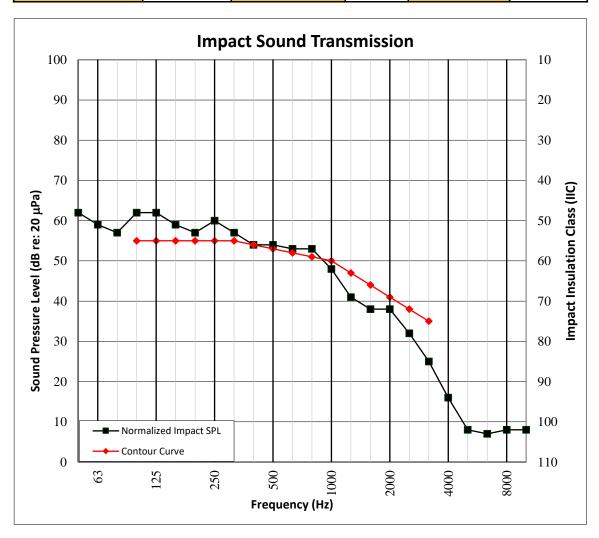
Report No.: J4777.08-113-11-R1

Date: 05/20/19

SECTION 13

TEST RESULTS - IMPACT SOUND TRANSMISSION GRAPH

		12/2019				
TEST DATE	3/12/2019					
DATA FILE NO.	J4777.08	777.08				
CLIENT	ClarkDietrich Bu	ACCRED Testing Labor				
DESCRIPTION	Levelrock® Brand SAM-N Johns Manville Unfaced ClarkDietrich® Sound Cli mm (0.63") USG SHEETR	arm (0.08") Shaw Expo Luxury Vinyl Tile, 25.4 mm (1") USG Levelrock® Brand 2500 Floor Underlayment, 6.4 mm (0.25") USG evelrock® Brand SAM-N25™ Sound Attenuation Mat, 18.8 mm (0.74") Oriented Strand Board Sheathing, 88.9 mm (3.5") ohns Manville Unfaced R-13 Fiberglass Insulation, 406.4 mm (16") York PB Truss L/360 Open Web Truss, 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, 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, 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, 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, 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 m ²	Maximum Temp.	18.9°C (66.1°F)	Minimum Temp.	18.8°C (65.8°F)	
TECHNICIAN	DRD	Max. Humidity	64%	Min. Humidity	63%	





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TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: J4777.08-113-11-R1

Date: 05/20/19

SECTION 14

PHOTOGRAPHS

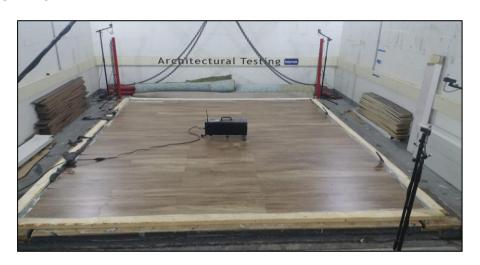


Photo No. 1 Source Room View of Test Specimen Installation



Photo No. 2
Receive Room View of Test Specimen Installation



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SECTION 15

REVISION LOG

REVISION #	DATE	PAGES	DESCRIPTION
RO	04/15/19	N/A	Original Report Issue
R1	05/20/19	N/A	Sound clip name corrected