

# CLARKDIETRICH BUILDING SYSTEMS, LLC

# ACOUSTICAL PERFORMANCE TEST REPORT

#### **SCOPE OF WORK**

ASTM E90 AND ASTM E492 TESTING ON EXPO LUXURY VINYL TILE

#### **SPECIMEN TYPE**

Weyerhauser TJI Assembly - 305 mm (12") - ClarkDietrich® Sound Clip - Three-Layers USG SHEETROCK® Brand FIRECODE® C Core

#### **REPORT NUMBER**

J4776.08-113-11-R2

#### **TEST DATE**

03/14/19

ISSUE DATE

**REVISED DATE** 

04/15/19

05/25/21

#### RECORD RETENTION END

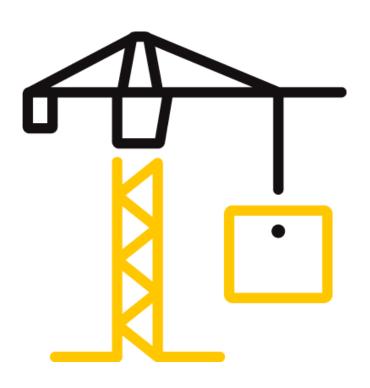
03/14/23

#### **PAGES**

12

#### **DOCUMENT CONTROL**

ATI 00629 (03/21/18) RTTDS-R-AMER-Test-2844 © 2017 INTERTEK





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#### TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: J4776.08-113-11-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.	J4776.08
SERIES/MODEL:	Expo Luxury Vinyl Tile
STC	62
IIC	55

**COMPLETED BY:** Cody R. Snyder **COMPLETED BY:** Daniel B. Mohler Technician - Acoustical Project Lead - Acoustical TITLE: TITLE: **Testing** Testing **SIGNATURE: SIGNATURE: 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 (Weyerhauser TJI Assembly - 305 mm (12") - 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 1184.6 kg / 2611.5 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	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	

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

VT RECEIVE ROOM VOLUME	157.31 m³ (5555.47 ft³)
VT SOURCE ROOM VOLUME	190 m³ (6709.79 ft³)

## **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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## **SECTION 9**

## **TEST SPECIMEN DESCRIPTION**

MATERIAL	Dimensions	Thickness	MANUFACTURER AND	QUANTITY	AVERAGE			
IVIATERIAL	(mm/inch)	(mm/inch)	SERIES	QUANTITY	WEIGHT			
	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			
uxury Vinyl Tile	Note: A sheet of 2 r	nil polyethylene plas	tic was adhered to the subfloor	topping with Spray	way Fast Tack 85			
Luxury Villyi Tile			dhered to the sheeting with a pr					
			0.79 mm (1/32" by 1/16" by 1/3	32") trowel. Adhesi	ve was allowed to			
	cure per manufactu	rer's specifications.		_				
	3022.6 by 3632.2 119 by 143	25.4 / 1	USG Levelrock® Brand 2500	10.98 m <sup>2</sup> 118.19 ft <sup>2</sup>	49.8 kg/m² 10.2 lb/ft²			
Floor Underlayment			underlayment, cured a minimur noticeable shrinkage or crackin					
	3023 by 1003.3	6 4 / 9 9 5	USG Levelrock® Brand SAM-	10.98 m²	0.49 kg/m <sup>2</sup>			
Sound Attenuation	119 by 39.5	6.4 / 0.25	N25™	118.19 ft²	0.1 lb/ft²			
Mat	Note: Loose laid wi	th seams overlapping	g and taped	•	•			
	1219 by 2438	10.0 / 0.74	N1/A	10.98 m²	13.82 kg/m <sup>2</sup>			
Oriented Strand	48 by 96	18.8 / 0.74	N/A	118.19 ft <sup>2</sup>	2.83 lb/ft <sup>2</sup>			
Board Sheathing		oists with 76 mm (3" mm (12") centers in	) by 3 mm (0.12") framing nails the field.	on 203 mm (8") cer	nters along			
	520.7 by 3023	00.0 / 2.5	Jahan Manuilla Hafarad D 12	10.98 m²	1.32 kg/m <sup>2</sup>			
iberglass	20.5 by 119	88.9 / 3.5	Johns Manville Unfaced R-13	118.19 ft²	0.27 lb/ft <sup>2</sup>			
nsulation	Note: Installed into the cavities between the joists, stapled flush to the subfloor.							
	57.2 by 3023	201.6 / 11.00	Weyerhaeuser TrusJoist® 360	21.16 lin m	4.46 kg/m			
ΓJI Joist	2.3 by 119	301.6 / 11.88	weyernaeuser TrusJoist* 360	69.42 lin ft	3 lb/ft			
131 30131	Note: Fastened to perimeter frame on 610 mm (24") centers							
	76.2 by 36.5	24.0./4.25	Claul-Diatoiala® Cassad Clin	24 alina	0.06 kg/clip			
Resilient Sound	3 by 1.4	31.8 / 1.25	ClarkDietrich® Sound Clip	24 clips	0.14 lb/clip			
Isolation Clip	Note: Installed in a 610 mm by 1219 mm (24" by 48") grid pattern.							
Furring/Hat	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			
Channel		10 mm (24") center	perpendicular to the joists. The					
<i>y</i>	0.7 mm (0.03").	20 mm (21 ) center.	perpendicular to the joists. The	. measured timekire	os or the metal we			
	1219 by 3023		USG SHEETROCK® Brand	10.98 m²	9.76 kg/m <sup>2</sup>			
	48 by 119	12.7 / 0.5	FIRECODE® C Core	118.19 ft <sup>2</sup>	2 lb/ft²			
Gypsum Panel	•	he channels on 305						
	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	12.7 / 0.5	USG SHEETROCK® Brand	10.98 m²	9.76 kg/m <sup>2</sup>			
	48 by 119	12.7 / 0.5	FIRECODE® C Core	118.19 ft²	2 lb/ft²			
Gypsum Panel	Note: Fastened to t	he channels on 305	mm (12") centers with 41.3 mm	(1-5/8") Type S bug	gle head screws.			
	The seams of the g	psum panels were s	ealed with Pecora AC-20 FTR ca	ulk and covered wit	h pressure sensiti			
	tape.							
	1219 by 3023	12.7 / 0.5	USG SHEETROCK® Brand	10.98 m²	9.76 kg/m <sup>2</sup>			
	48 by 119		FIRECODE® C Core	118.19 ft²	2 lb/ft²			
Gypsum Panel			mm (8") centers with 50.8 mm (					
	seams of the gypsu	m panels were seale	d with Pecora AC-20 FTR caulk a	nd covered with pr	essure sensitive			
	tape.							



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Report No.: J4776.08-113-11-R2

Date: 05/25/21

#### **SECTION 10**

## **TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS**

TEST DATE	3/14/2019					
DATA FILE NO.	J4776.08	776.08				
CLIENT	ClarkDietrich Bu	rkDietrich Building Systems, LLC  ACCR Testing				
DESCRIPTION	Levelrock® Brand SAM-N Johns Manville Unfaced (1.25") ClarkDietrich® Sc Channel, 12.7 mm (0.5")	mm (0.08") Shaw Expo Luxury Vinyl Tile, 25.4 mm (1") USG Levelrock® Brand 2500 Floor Underlayment, 6.4 mm (0.25") USG velrock® Brand SAM-N25™ Sound Attenuation Mat, 18.8 mm (0.74") Oriented Strand Board Sheathing, 88.9 mm (3.5") hns Manville Unfaced R-13 Fiberglass Insulation, 301.63 mm (11.88") Weyerhaeuser TrusJoist® 360 TJI Joist, 31.75 mm (.25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 Furring/Hat hannel, 12.7 mm (0.5") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 12.7 mm (0.5") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 12.7 mm (0.5") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 12.7 mm (0.5") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
SPECIMEN AREA	10.98 m <sup>2</sup>	Receive Temp.	20°C (68°F)	Source Temp.	20°C (67.9°F)	
TECHNICIAN	DRD	Receive Humidity	63%	Source Humidity	63%	

EDEO	BACKGROUND	ADCORPTION	SOURCE	RECEIVE	SPECIMEN	95%	NUMBER
FREQ	SPL	ABSORPTION	SPL	SPL	TL	CONFIDENCE	OF
(Hz)	(dB)	m²	(dB)	(dB)	(dB)	LIMIT	DEFICIENCIES
50	39	31.9	101	60	37	2.7	-
63	37	26.1	101	60	38	3.8	-
80	37.0	18.6	108	67	40	3.1	-
100	29.5	10.6	106	66	41	2.3	-
125	28.2	11.4	104	63	43	1.8	3
160	26.6	9.4	105	64	43	1.5	6
200	23.1	9.0	101	54	49	1.1	3
250	20.3	10.0	100	49	54	0.8	1
315	22.6	10.1	104	50	56	0.8	2
400	17.6	8.6	102	45	60	0.7	1
500	18.6	7.7	102	44	61	0.5	1
630	22.2	7.8	103	44	62	0.6	1
800	20.2	7.7	102	43	62	0.6	2
1000	21.3	7.7	101	42	62	0.4	3
1250	20.4	7.8	102	38	67	0.7	0
1600	14.7	7.8	102	36	69	0.5	0
2000	15.3	8.8	102	36	69	0.4	0
2500	13.0	9.8	100	33	69	0.3	0
3150	14.5	10.6	101	30	73	0.2	0
4000	10.5	12.1	102	29	74	0.4	0
5000	7.7	13.9	102	26	76	0.5	-
6300	7.1	17.0	96	18	78	0.7	-
8000	7.2	22.6	95	14	79	0.9	-
10000	7.3	22.6	90	9	79	0.7	-
STC Ratin	<mark>g</mark> 62	(Sound Transmi	ssion Class)		Sum o	f Deficiencies	23

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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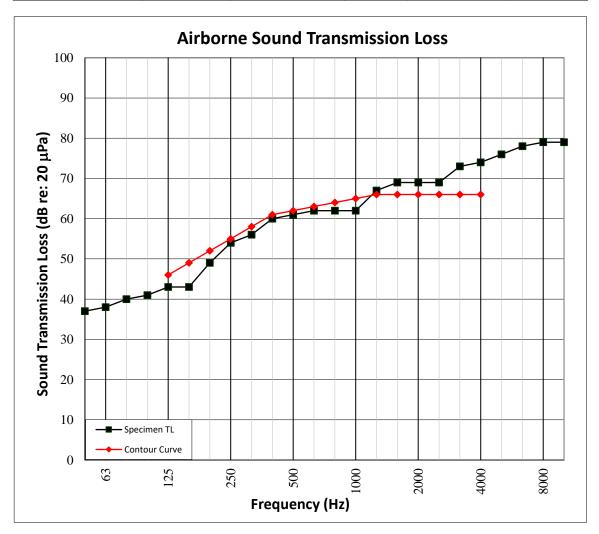
Report No.: J4776.08-113-11-R2

Date: 05/25/21

#### **SECTION 11**

## **TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS GRAPH**

TEST DATE	3/14/2019					
DATA FILE NO.	J4776.08	776.08				
CLIENT	ClarkDietrich Bu	arkDietrich Building Systems, LLC				
DESCRIPTION	Levelrock® Brand SAM-N Johns Manville Unfaced I (1.25") ClarkDietrich® So Channel, 12.7 mm (0.5")	Testing Laboratory 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") hns Manville Unfaced R-13 Fiberglass Insulation, 301.63 mm (11.88") Weyerhaeuser TrusJoist® 360 TJI Joist, 31.75 mm .25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 Furring/Hat hannel, 12.7 mm (0.5") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 12.7 mm (0.5") USG SHEETROCK® Brand RECODE® C Core Gypsum Panel, 12.7 mm (0.5") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
SPECIMEN AREA	10.98 m²	Receive Temp.	20°C (68°F)	Source Temp.	20°C (67.9°F)	
TECHNICIAN	DRD	Receive Humidity	63%	<b>Source Humidity</b>	63%	





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# TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: J4776.08-113-11-R2

Date: 05/25/21

#### **SECTION 12**

## **TEST RESULTS - IMPACT SOUND TRANSMISSION**

TEST DATE	2/14/2010					
IESI DAIE	3/14/2019					
DATA FILE NO.	J4776.08	776.08				
CLIENT	ClarkDietrich Bu	ArkDietrich Building Systems, LLC				
DESCRIPTION	Levelrock® Brand SAM-N Johns Manville Unfaced (1.25") ClarkDietrich® So Channel, 12.7 mm (0.5")	Testing Laboratory  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")  shins Manville Unfaced R-13 Fiberglass Insulation, 301.63 mm (11.88") Weyerhaeuser TrusJoist® 360 Til Joist, 31.75 mm  .25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 Furring/Hat  hannel, 12.7 mm (0.5") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 12.7 mm (0.5") USG SHEETROCK® Brand  RECODE® C Core Gypsum Panel, 12.7 mm (0.5") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
SPECIMEN AREA	10.98 m <sup>2</sup>	Maximum Temp.	20.4°C (68.8°F)	Minimum Temp.	19.6°C (67.3°F)	
TECHNICIAN	DRD	Max. Humidity	64%	Min. Humidity	62%	

EDEO.	BACKGROUND	ADCORDITION	NODAAN IZED IMBACT CDI	95%	NUMBER
FREQ	SPL	ABSORPTION	NORMALIZED IMPACT SPL	CONFIDENCE	OF
(Hz)	(dB)	m²	(dB)	LIMIT	DEFICIENCIES
50	37.1	32.1	63	2.5	-
63	36.9	27.8	60	2.8	-
80	35.8	18.5	60	3.0	-
100	29.7	11.4	60	1.6	3
125	28.4	10.2	62	1.4	5
160	26.8	9.4	60	1.1	3
200	23.5	9.5	58	0.5	1
250	20.8	10.2	58	0.8	1
315	22.5	9.9	57	0.5	0
400	17.5	8.3	54	0.5	0
500	18.2	7.6	56	0.5	1
630	20.3	7.7	58	0.2	4
800	20.4	7.7	57	0.2	4
1000	20.9	7.7	54	0.3	2
1250	19.1	7.8	48	0.1	0
1600	14.5	7.9	45	0.2	0
2000	15.9	8.8	45	0.2	2
2500	13.4	9.9	42	0.2	2
3150	11.7	10.6	34	0.3	0
4000	9.1	11.8	28	0.5	-
5000	7.0	14.0	22	0.7	-
6300	6.9	17.3	18	0.9	-
8000	7.0	22.5	13	1.5	-
10000	8.0	22.5	12	1.6	-
IIC Rati	ng 55	(Impact Insula	tion Class)	Sum of Deficienci	es 28

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



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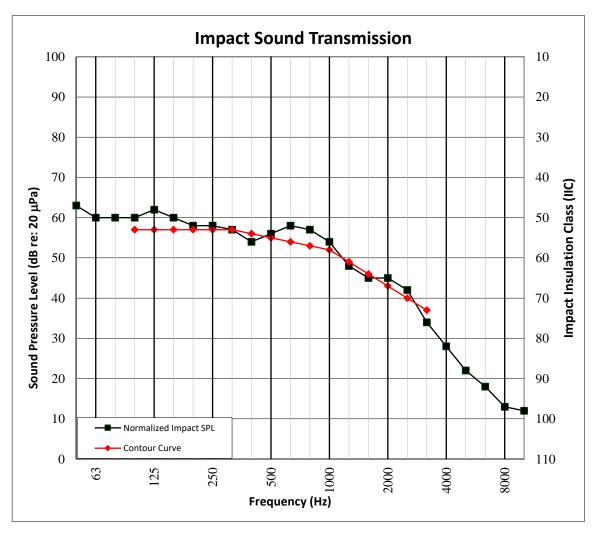
Report No.: J4776.08-113-11-R2

Date: 05/25/21

#### **SECTION 13**

## **TEST RESULTS - IMPACT SOUND TRANSMISSION GRAPH**

TEST DATE DATA FILE NO.	3/14/2019 J4776.08				ACCREDITED	
CLIENT	ClarkDietrich Bu	ilding Systems, LLC			Testing Laboratory	
DESCRIPTION	Levelrock® Brand SAM-N Johns Manville Unfaced I (1.25") ClarkDietrich® So Channel, 12.7 mm (0.5")	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") hhs Manville Unfaced R-13 Fiberglass Insulation, 301.63 mm (11.88") Weyerhaeuser TrusJoist® 360 TJI Joist, 31.75 mm .25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 087F125-18 Furring/Hat nannel, 12.7 mm (0.5") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 12.7 mm (0.5") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 12.7 mm (0.5") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 12.7 mm (0.5") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 12.7 mm (0.5") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
SPECIMEN AREA	10.98 m²	Maximum Temp.	20.4°C (68.8°F)	Minimum Temp.	19.6°C (67.3°F)	
TECHNICIAN	DRD	Max. Humidity	64%	Min. Humidity	62%	





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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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# TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: J4776.08-113-11-R2

Date: 05/25/21

#### **SECTION 15**

### **REVISION LOG**

<b>REVISION #</b>	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 6-10	Drywall thickness corrected