

CLARKDIETRICH BUILDING SYSTEMS, LLC

ACOUSTICAL PERFORMANCE TEST REPORT

SCOPE OF WORK

ASTM E90 AND ASTM E492 TESTING ON BARE GYPSUM FLOOR

SPECIMEN TYPE

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

REPORT NUMBER

J4778.01-113-11-R1

TEST DATE

03/15/19

ISSUE DATE

REVISED DATE

04/15/19

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TEST REPORT FOR CLARKDIETRICH BUILDING SYSTEMS, LLC

Report No.: J4778.01-113-11-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 Bare Gypsum Floor. 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.	J4778.01
SERIES/MODEL:	Bare Gypsum Floor
STC	58
IIC	50

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 (Open Web Truss - 406 mm (16") - Direct Layer USG SHEETROCK® Brand FIRECODE® C Core - 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 1241 kg / 2736.5 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	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	achine INT00936		

^{*} 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
Seth J. Allen	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

BAATEDIAL	Dimensions	Thickness	MANUFACTURER AND	CHARITITY	AVERAGE				
MATERIAL	(mm/inch)	(mm/inch)	SERIES	QUANTITY	WEIGHT				
	3022.6 by 3632.2 119 by 143	25.4 / 1	USG Levelrock® Brand 2500	10.98 m ² 118.19 ft ²	49.8 kg/m² 10.2 lb/ft²				
Floor		ectly onto the subf	loor underlayment, cured a r						
Underlayment		•	eter isolation. No noticeable s		0,1				
	on the specimen.				0				
	3023 by 1003.3		USG Levelrock® Brand SAM-	10.98 m²	0.49 kg/m ²				
Sound	, 119 by 39.5	6.4 / 0.25	N25™	118.19 ft²	0.1 lb/ft²				
Attenuation Mat	Note: Loose laid v	with seams overlap	oping and taped						
	1219 by 2438	100/074	N1/A	10.98 m²	13.82 kg/m ²				
Oriented Strand	48 by 96	18.8 / 0.74	N/A	118.19 ft²	2.83 lb/ft ²				
Board Sheathing	Note: Fastened to	trusses with 76 m	nm (3") by 3 mm (0.12") fram	ing nails on 203 m	ım (8") centers				
	along perimeter a	and 305 mm (12")	centers in the field.						
	520.7 by 3023	88.9 / 3.5	Johns Manville Unfaced R-	10.98 m²	1.32 kg/m ²				
Fiberglass	20.5 by 119	00.9 / 3.5	13	118.19 ft²	0.27 lb/ft ²				
Insulation	Note: Installed in	to the cavities betw	ween the trusses, stapled flus	sh to the subfloor.					
	88.9 by 2933.7	406.4 / 16	Vork DD Truce I /260	7 trusses	16.93 kg/truss				
Open Web Truss	3.5 by 115.5	406.4 / 16	York PB Truss L/360	7 trusses	37.32 lb/truss				
Open Web ITuss	Note: Installed on 610 mm (24") centers using JUS414 hanger brackets.								
	1219 by 3023	15.9 / 0.63	USG SHEETROCK® Brand	10.98 m²	11.9 kg/m²				
	48 by 119	·	FIRECODE® C Core	118.19 ft ²	2.44 lb/ft ²				
Gypsum Panel			es on 203 mm (8") centers w						
		head screws. The seams of the gypsum panels were sealed with Pecora AC-20 FTR caulk and							
		covered with pressure sensitive tape.							
	76.2 by 36.5	31.8 / 1.25	ClarkDietrich® Sound Clip	24 clips	0.06 kg/clip				
Resilient Sound	3 by 1.4	02.0 / 2.20	Ciarris Carron Courta Cirp	dps	0.14 lb/clip				
Isolation Clip	Note: Installed in	a 610 mm by 1219	mm (24" by 48") grid patter	n.					
	3657.6 by 76.2	22.3 / 0.88	ClarkDietrich® 087F125-18	21.95 lin m 72 lin ft	0.48 kg/m				
Furring/Hat	144 by 3	·	•		0.32 lb/ft				
Channel			nters perpendicular to the tru	usses. The measure	ed 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	·	FIRECODE® C Core	118.19 ft²	2.44 lb/ft ²				
Gypsum Panel			305 mm (12") centers with 25		-				
		•	anels were sealed with Pecor	a AC-20 FTR caulk	and covered				
	with pressure sen	sitive tape.							
	1219 by 3023	15.9 / 0.63	USG SHEETROCK® Brand	10.98 m ²	11.9 kg/m²				
	48 by 119	·	FIRECODE® C Core	118.19 ft²	2.44 lb/ft ²				
Gypsum Panel			203 mm (8") centers with 41.		_				
			anels were sealed with Pecor	a AC-20 FTR caulk	and covered				
	with pressure sen	sitive tape.							



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SECTION 10

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS

TEST DATE	3/15/2019					
	3/13/2019					
DATA FILE NO.	J4778.01	778.01				
CLIENT	ClarkDietrich Bu	ACCRE Testing L				
DESCRIPTION	Attenuation Mat, 18.8 m Insulation, 406.4 mm (16 Gypsum Panel, 31.75 mr 087F125-18 Furring/Hat	5.4 mm (1") USG Levelrock® Brand 2500 Floor Underlayment, 6.4 mm (0.25") USG Levelrock® Brand SAM-N25™ Sound ttenuation Mat, 18.8 mm (0.74") Oriented Strand Board Sheathing, 88.9 mm (3.5") Johns Manville Unfaced R-13 Fiberglass isulation, 406.4 mm (16") York PB Truss L/360 Open Web Truss, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core ypsum Panel, 31.75 mm (1.25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® B7F125-18 Furring/Hat Channel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 35.9 mm (0.63") SG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
SPECIMEN AREA	10.98 m²	Receive Temp.	18.4°C (65.1°F)	Source Temp.	20.4°C (68.7°F)	
TECHNICIAN	SJA	Receive Humidity	53%	Source Humidity	53%	

FREQ	BACKGROUND	ABSORPTION	SOURCE	RECEIVE	SPECIMEN	95%	NUMBER
FREQ	SPL	ABSURPTION	SPL	SPL	TL	CONFIDENCE	OF
(Hz)	(dB)	m²	(dB)	(dB)	(dB)	LIMIT	DEFICIENCIES
50	41.8	29.3	100	65	32	3.8	-
63	39.3	26.4	100	59	38	4.5	-
80	39.6	17.7	108	70	37	2.8	-
100	36.9	12.1	106	69	38	2.5	-
125	34.1	11.0	103	66	38	1.7	4
160	34.4	9.2	104	66	40	1.4	5
200	28.3	10.4	101	58	44	1.5	4
250	26.0	10.4	99	55	45	0.7	6
315	25.8	9.0	102	54	51	0.9	3
400	20.0	8.4	102	51	53	0.5	4
500	18.7	7.9	102	48	56	0.4	2
630	21.1	7.5	103	45	61	0.6	0
800	20.4	7.8	102	42	63	0.6	0
1000	19.7	7.6	102	40	65	0.5	0
1250	15.6	7.8	102	37	68	0.4	0
1600	12.7	7.8	102	36	69	0.3	0
2000	12.5	9.0	102	35	69	0.4	0
2500	10.5	9.7	100	32	70	0.5	0
3150	9.4	10.5	101	29	74	0.3	0
4000	8.8	11.7	102	28	75	0.3	0
5000	7.9	13.6	102	25	77	0.5	-
6300	7.1	17.0	96	15	80	0.9	-
8000	7.0	21.8	95	11	82	1.0	-
10000	6.9	21.8	90	6	82	0.7	-
STC Ratin	<mark>sg 58</mark>	(Sound Transmi	ssion Class)		Sum o	f Deficiencies	28

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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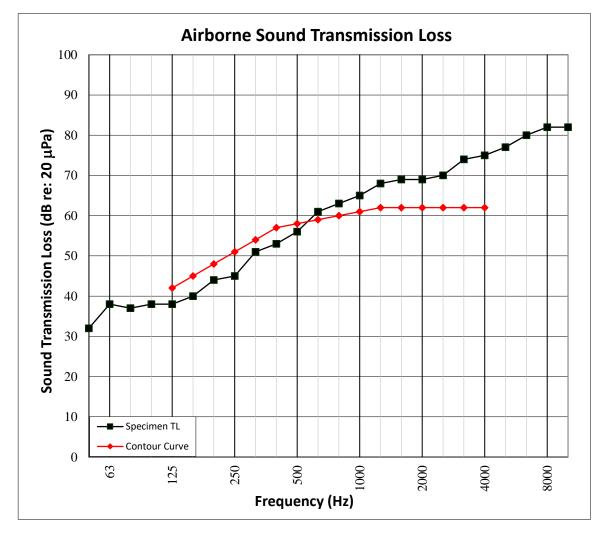
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SECTION 11

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS GRAPH

TEST DATE DATA FILE NO. CLIENT	3/15/2019 J4778.01	78.01				
DESCRIPTION	25.4 mm (1") USG Levelr Attenuation Mat, 18.8 m Insulation, 406.4 mm (16 Gypsum Panel, 31.75 mn	ClarkDietrich Building Systems, LLC 5.4 mm (1") USG Levelrock® Brand 2500 Floor Underlayment, 6.4 mm (0.25") USG Levelrock® Brand SAM-N25™ Sound stenuation Mat, 18.8 mm (0.74") Oriented Strand Board Sheathing, 88.9 mm (3.5") Johns Manville Unfaced R-13 Fiberglass sulation, 406.4 mm (16") York PB Truss L/360 Open Web Truss, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core ypsum Panel, 31.75 mm (1.25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 87F125-18 Furring/Hat Channel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63")				
SPECIMEN AREA	10.98 m²			Source Temp.	20.4°C (68.7°F)	
TECHNICIAN	SJA	Receive Humidity	53%	Source Humidity	53%	





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SECTION 12

TEST RESULTS - IMPACT SOUND TRANSMISSION

TEST DATE	3/15/2019					
	<u> </u>					
DATA FILE NO.	J4778.01	4//8.01				
CLIENT	ClarkDietrich Bu	ACCREI Testing Lal				
DESCRIPTION	Attenuation Mat, 18.8 m Insulation, 406.4 mm (16 Gypsum Panel, 31.75 mr 087F125-18 Furring/Hat	5.4 mm (1") USG Levelrock® Brand 2500 Floor Underlayment, 6.4 mm (0.25") USG Levelrock® Brand SAM-N25™ Sound ttenuation Mat, 18.8 mm (0.74") Oriented Strand Board Sheathing, 88.9 mm (3.5") Johns Manville Unfaced R-13 Fiberglass sulation, 406.4 mm (16") York PB Truss L/360 Open Web Truss, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core ypsum Panel, 31.75 mm (1.25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 87F125-18 Furring/Hat Channel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") SG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
SPECIMEN AREA	10.98 m²	Maximum Temp.	28.2°C (82.7°F)	Minimum Temp.	13.1°C (55.6°F)	
TECHNICIAN	SJA	Max. Humidity	72%	Min. Humidity	21%	

FREQ	BACKGROUND SPL	ABSORPTION	NORMALIZED IMPACT SPI	95% CONFIDENCE	NUMBER OF
(Hz)	(dB)	m²	(dB)	LIMIT	DEFICIENCIES
50	36.5	31.9	64	1.0	-
63	36.8	29.4	62	2.2	-
80	37.7	18.1	71	3.2	-
100	30.7	12.3	66	1.1	4
125	30.0	11.8	69	1.6	7
160	27.1	9.4	67	0.8	5
200	23.0	10.5	69	0.6	7
250	22.9	10.7	68	0.5	6
315	21.0	9.5	63	0.5	1
400	15.7	8.4	61	0.4	0
500	17.1	7.8	60	0.4	0
630	18.6	7.6	59	0.2	0
800	19.4	7.7	57	0.3	0
1000	18.9	7.7	52	0.1	0
1250	14.7	7.8	49	0.2	0
1600	10.6	7.8	48	0.1	0
2000	10.9	9.1	47	0.2	0
2500	8.7	9.8	39	0.2	0
3150	7.1	10.5	29	0.2	0
4000	6.5	11.7	22	0.2	-
5000	5.8	13.6	17	0.4	-
6300	6.1	16.9	9	0.3	-
8000	6.6	21.9	8	0.4	-
10000	6.7	21.9	8	0.5	-
IIC Ratin	g 50	(Impact Insulati	on 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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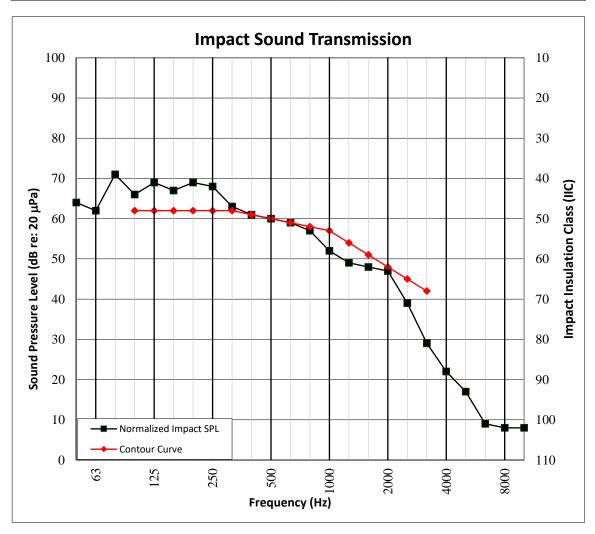
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SECTION 13

TEST RESULTS - IMPACT SOUND TRANSMISSION GRAPH

TEST DATE DATA FILE NO.	3/15/2019 M778 01	/15/2019 -778.01				
CLIENT		arkDietrich Building Systems, LLC				
DESCRIPTION	Attenuation Mat, 18.8 m Insulation, 406.4 mm (16 Gypsum Panel, 31.75 mn 087F125-18 Furring/Hat	5.4 mm (1") USG Levelrock® Brand 2500 Floor Underlayment, 6.4 mm (0.25") USG Levelrock® Brand SAM-N25™ Sound ttenuation Mat, 18.8 mm (0.74") Oriented Strand Board Sheathing, 88.9 mm (3.5") Johns Manville Unfaced R-13 Fiberglass sulation, 406.4 mm (16") York PB Truss L/360 Open Web Truss, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core ypsum Panel, 31.75 mm (1.25") ClarkDietrich® Sound Clip Resilient Sound Isolation Clip, 22.3 mm (0.88") ClarkDietrich® 87F125-18 Furring/Hat Channel, 15.9 mm (0.63") USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel, 15.9 mm (0.63") SG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel				
SPECIMEN AREA	10.98 m²	Maximum Temp.	28.2°C (82.7°F)	Minimum Temp.	13.1°C (55.6°F)	
TECHNICIAN	SJA	Max. Humidity	72%	Min. Humidity	21%	





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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