

KINETICS NOISE CONTROL ACOUSTICAL PERFORMANCE TEST REPORT

SCOPE OF WORK

ASTM E90 AND ASTM E492 TESTING ON CLICK-LOCK LVT OVER THREE-LAYERS
PLYWOOD OVER 2X6 DIMENSIONAL LUMBER SLEEPS WITH R6.7 FIBERGLASS
INSULATION OVER KINETICS METAWRX ISOLATORS

SPECIMEN TYPE

Vulcraft 2VLI Composite Floor Deck

REPORT NUMBER

N3131.15-113-11-R0

TEST DATE

02/09/22

ISSUE DATE

03/16/22

RECORD RETENTION END

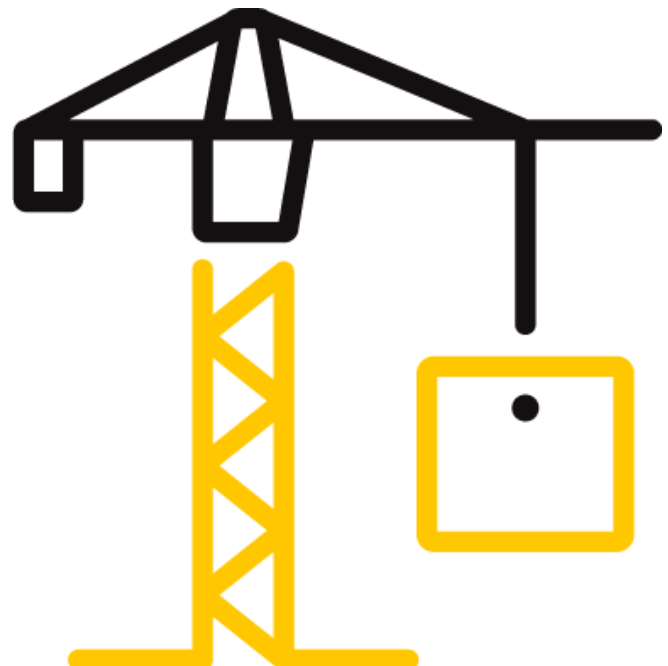
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DOCUMENT CONTROL

ATI 00629 (03/21/18)
RTTDS-R-AMER-Test-2844
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TEST REPORT FOR KINETICS NOISE CONTROL

Report No.: N3131.15-113-11-R0

Date: 03/16/22

REPORT ISSUED TO

KINETICS NOISE CONTROL

6300 Irelan Place - PO Box 655

Dublin, Ohio 43017

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Kinetics Noise Control to perform testing in accordance with ASTM E90 AND ASTM E492 on Click-Lock LVT over Three-Layers Plywood over 2x6 Dimensional Lumber Sleeps with R6.7 Fiberglass Insulation over Kinetics MetaWrx Isolators. Results obtained are tested values and were secured by using the designated test methods. 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. | N3131.15 |
| SERIES/MODEL: | Click-Lock LVT over Three-Layers Plywood over 2x6 Dimensional Lumber Sleeps with R6.7 Fiberglass Insulation over Kinetics MetaWrx Isolators |
| STC | 61 |
| IIC | 64 |
| HIIC | 82 |

COMPLETED BY: Corey S. Kohler
Technician - Acoustical
TITLE: Testing
SIGNATURE:
DATE: 03/16/22

COMPLETED BY: Daniel B. Mohler
Project Lead - Acoustical
TITLE: Testing
SIGNATURE:
DATE: 03/16/22

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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 E989-21, *Classification for Determination of Impact Insulation Class (IIC)*

ASTM E2235-04 (2020), *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods*

ASTM E3222-20, *Standard Classification for Determination of High-Frequency Impact Sound Ratings*

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 (Vulcraft 2VLI Composite Floor Deck) 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 3413.4 kg. 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.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

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SECTION 5 EQUIPMENT

| INSTRUMENT | MANUFACTURER | MODEL | DESCRIPTION | ASSET # | CAL DATE | |
|--------------------------------------|----------------------|---------|--------------------------------------|----------|----------|---|
| 2-Channel Analog Input | National Instruments | NI 9250 | 2-Channel Analog Input | INT02572 | 05/21 | * |
| 2-Channel Analog Input | National Instruments | NI 9250 | 2-Channel Analog Input | INT02574 | 05/21 | * |
| 2-Channel Analog Input | National Instruments | NI 9250 | 2-Channel Analog Input | INT02575 | 05/21 | * |
| 2-Channel Analog Input | National Instruments | NI 9250 | 2-Channel Analog Input | INT02576 | 05/21 | * |
| 2-Channel Analog Input | National Instruments | NI 9250 | 2-Channel Analog Input | INT02577 | 05/21 | * |
| 2-Channel Analog Input | National Instruments | NI 9250 | 2-Channel Analog Input | INT02578 | 05/21 | * |
| 2-Channel Analog Output | National Instruments | NI 9260 | 2-Channel Analog Input | INT02573 | 05/21 | * |
| Microphone Calibrator | Norsonic | 34093 | Acoustical Calibrator | 65105 | 10/21 | |
| Receive Room Microphone | PCB Piezotronics | 378C20 | Microphone and Preamplifier | 63745 | 09/21 | |
| Receive Room Microphone | PCB Piezotronics | 378B20 | Microphone and Preamplifier | 63747 | 07/21 | |
| Receive Room Microphone | PCB Piezotronics | 378B20 | Microphone and Preamplifier | 64340 | 10/21 | |
| Receive Room Microphone | PCB Piezotronics | 378B20 | Microphone and Preamplifier | INT01089 | 02/21 | |
| Receive Room Microphone | PCB Piezotronics | 378B20 | Microphone and Preamplifier | INT00652 | 02/21 | |
| Receive Room Environmental Indicator | Comet | T7510 | Temperature and Humidity Transmitter | 63810 | 10/21 | |
| | | | | 63811 | 10/21 | |
| Source Room Microphone | PCB Piezotronics | 378C20 | Microphone and Preamplifier | 65969 | 04/21 | |
| Source Room Microphone | PCB Piezotronics | 378C20 | Microphone and Preamplifier | 63742 | 03/21 | |
| Source Room Microphone | PCB Piezotronics | 378C20 | Microphone and Preamplifier | 63741 | 07/21 | |
| Source Room Microphone | PCB Piezotronics | 378C20 | Microphone and Preamplifier | 63740 | 04/21 | |
| Source Room Microphone | PCB Electronics | 378C20 | Microphone and Preamplifier | 63739 | 04/21 | |
| Source Room Environmental Indicator | Comet | T7510 | Temperature and Humidity Transmitter | 63812 | 10/21 | |
| Tapping Machine | Norsonic | Nor277 | Tapping Machine | INT00936 | 02/21 | |

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

| | |
|------------------------|-----------------------|
| VT RECEIVE ROOM VOLUME | 158.99 m ³ |
| VT SOURCE ROOM VOLUME | 190 m ³ |

SECTION 6 LIST OF OFFICIAL OBSERVERS

| NAME | COMPANY |
|----------------------|--------------|
| Morgan S. J. Kennedy | 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 receive 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), IIC (Impact Insulation Class), and HIIC (High-Frequency Impact Insulation Class) ratings were calculated in accordance with ASTM E413, ASTM E989, and ASTM E3222, respectively.

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SECTION 9

TEST SPECIMEN DESCRIPTION

| MATERIAL | DIMENSIONS (mm) | THICKNESS (mm) | MANUFACTURER AND SERIES | QUANTITY | AVERAGE WEIGHT |
|----------------------------|---|----------------|-------------------------|----------------------|--------------------------|
| Luxury Vinyl Plank | 1219.2 by 152.4 | 6.8 | Shaw Como Plus | 10.98 m ² | 6.49 kg/m ² |
| | Note: Loose laid. The flooring had an attached pad backing. | | | | |
| Plywood | 2438.4 by 1219.2 | 18.3 | N/A | 10.98 m ² | 12.4 kg/m ² |
| | Note: Installed with seams staggered, adhered with Liquid Nails Heavy Duty with ribbons no more than 254 mm apart, and fastened to second layer with 50.8 mm coarse thread wood screws on 305 mm centers along the perimeter and in the field. | | | | |
| Plywood | 2438.4 by 1219.2 | 18.3 | N/A | 10.98 m ² | 12.4 kg/m ² |
| | Note: Installed with seams staggered, adhered with Liquid Nails Heavy Duty with ribbons no more than 254 mm apart, and fastened to first layer with 31.75 mm coarse thread wood screws on 305 mm centers along the perimeter and in the field. | | | | |
| Plywood | 2438.4 by 1219.2 | 18.3 | N/A | 10.98 m ² | 12.4 kg/m ² |
| | Note: Loose laid on top the isolators. | | | | |
| 2x6 Dimensional Lumber | 3023 by 139.7 | 38.1 | N/A | 21.16 lin m | 2.71 kg/m |
| | Note: Loose laid on 609.6 mm centers | | | | |
| Isolator | 107.8 by 107.8 | 19.1 | Kinetics MetaWrx | 42 | 0.15 kg/ea |
| | Note: Placed on the concrete slab on 609.6 mm centers each way. | | | | |
| Fiberglass Insulaton | 1219.2 by 406.4 | 50.8 | R6.7 Unfaced | 10.98 m ² | 0.59 kg/m ² |
| | Note: Loose laid on the slab with cutouts for isolators. | | | | |
| Standard 4000 PSI Concrete | 3023 by 3632 | 139.7 | N/A | 10.98 m ² | 248.08 kg/m ² |
| | Note: Poured directly on the floor deck and allowed to cure for a minimum of 28 days. No noticeable shrinkage or cracking was visible on the specimen. | | | | |
| Composite Floor Deck | 3023 by 3632 | 50.8 | 18 Gage Vulcraft 2VLI | 10.98 m ² | 12.74 kg/m ² |
| | Note: Installed per manufacturer's specifications in a test frame with the top of the concrete flush with the source room. All seams and gaps underneath the deck were plugged with backer rod and sealed with Pecora AC-20 Acoustical Sealant. | | | | |

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SECTION 10

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS



| | | | | | |
|---------------|--|------------------|--------|-----------------|------|
| TEST DATE | 2/9/2022 | | | | |
| DATA FILE NO. | N3131.15 | | | | |
| CLIENT | Kinetics Noise Control | | | | |
| DESCRIPTION | 6.8 mm Shaw Como Plus Luxury Vinyl Plank, 18.3 mm Plywood, 18.3 mm Plywood, 18.3 mm Plywood, 38.1 mm 2x6 Dimensional Lumber, 19.1 mm Kinetics MetaWrx Isolator, 50.8 mm R6.7 Unfaced Fiberlgass Insulaton, 139.7 mm Standard 4000 PSI Concrete, 50.8 mm 18 Gage Vulcraft 2VLI Composite Floor Deck | | | | |
| SPECIMEN AREA | 10.98 m ² | Receive Temp. | 22.6°C | Source Temp. | 23°C |
| TECHNICIAN | MSJK | Receive Humidity | 42% | Source Humidity | 42% |

| FREQ (Hz) | BACKGROUND SPL (dB) | ABSORPTION m ² | SOURCE SPL (dB) | RECEIVE SPL (dB) | SPECIMEN TL (dB) | 95% CONFIDENCE LIMIT | NUMBER OF DEFICIENCIES |
|--------------|---------------------------|------------------------------|-----------------------|------------------------|------------------------|----------------------------|------------------------------|
| 50 | 36 | 23.9 | 90 | 55 | 32 | 3.7 | - |
| 63 | 38.9 | 18.9 | 91 | 54 | 35 | 3.6 | - |
| 80 | 34.4 | 14.4 | 101 | 66 | 35 | 2.6 | - |
| 100 | 27.2 | 10.0 | 102 | 70 | 34 | 2.8 | - |
| 125 | 29.5 | 8.9 | 106 | 66 | 42 | 1.8 | 3 |
| 160 | 23.3 | 8.8 | 103 | 62 | 43 | 1.0 | 5 |
| 200 | 19.4 | 10.1 | 99 | 57 | 44 | 2.0 | 7 |
| 250 | 22.8 | 9.3 | 102 | 53 | 51 | 1.0 | 3 |
| 315 | 19.1 | 9.4 | 106 | 53 | 54 | 1.2 | 3 |
| 400 | 15.5 | 8.0 | 107 | 50 | 59 | 0.7 | 1 |
| 500 | 17.2 | 7.6 | 105 | 46 | 62 | 1.0 | 0 |
| 630 | 16.5 | 7.3 | 105 | 44 | 64 | 0.6 | 0 |
| 800 | 16.6 | 7.3 | 104 | 43 | 64 | 0.4 | 0 |
| 1000 | 19.0 | 7.3 | 104 | 41 | 65 | 0.5 | 0 |
| 1250 | 16.8 | 7.5 | 103 | 39 | 66 | 0.5 | 0 |
| 1600 | 12.5 | 7.8 | 103 | 39 | 66 | 0.4 | 0 |
| 2000 | 10.1 | 8.6 | 104 | 38 | 67 | 0.7 | 0 |
| 2500 | 8.5 | 9.4 | 99 | 36 | 65 | 1.1 | 0 |
| 3150 | 8.2 | 10.5 | 99 | 37 | 62 | 1.0 | 3 |
| 4000 | 8.5 | 11.9 | 99 | 37 | 62 | 1.5 | 3 |
| 5000 | 9.2 | 14.2 | 96 | 30 | 65 | 1.8 | - |
| 6300 | 9.8 | 17.5 | 94 | 28 | 64 | 1.8 | - |
| 8000 | 10.7 | 22.5 | 94 | 23 | 67 | 1.9 | - |
| 10000 | 11.2 | 22.5 | 91 | 18 | 71 | 1.9 | - |
| STC Rating | 61 | (Sound Transmission Class) | | | Sum of 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 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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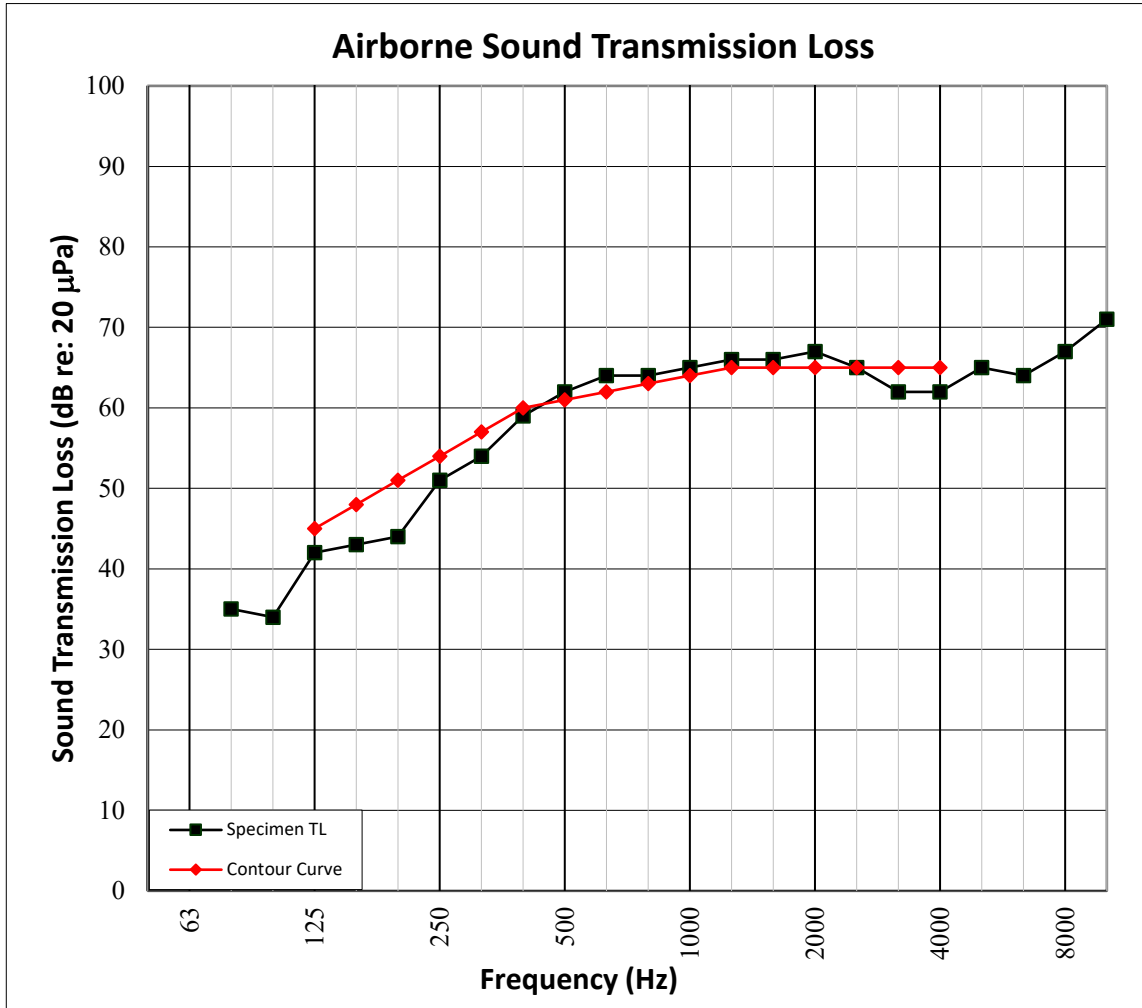
Date: 03/16/22

SECTION 11

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS GRAPH



| | | | | | |
|----------------------|--|-------------------------|--------|------------------------|------|
| TEST DATE | 2/9/2022 | | | | |
| DATA FILE NO. | N3131.15 | | | | |
| CLIENT | Kinetics Noise Control | | | | |
| DESCRIPTION | 6.8 mm Shaw Como Plus Luxury Vinyl Plank, 18.3 mm Plywood, 18.3 mm Plywood, 18.3 mm Plywood, 38.1 mm 2x6 Dimensional Lumber, 19.1 mm Kinetics MetaWrx Isolator, 50.8 mm R6.7 Unfaced Fiberlglas Insulaton, 139.7 mm Standard 4000 PSI Concrete, 50.8 mm 18 Gage Vulcraft 2VLI Composite Floor Deck | | | | |
| SPECIMEN AREA | 10.98 m ² | Receive Temp. | 22.6°C | Source Temp. | 23°C |
| TECHNICIAN | MSJK | Receive Humidity | 42% | Source Humidity | 42% |



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SECTION 12
TEST RESULTS - IMPACT SOUND TRANSMISSION


| | | | | | |
|----------------------|--|----------------------|--------|----------------------|--------|
| TEST DATE | 2/9/2022 | | | | |
| DATA FILE NO. | N3131.15 | | | | |
| CLIENT | Kinetics Noise Control | | | | |
| DESCRIPTION | 6.8 mm Shaw Como Plus Luxury Vinyl Plank, 18.3 mm Plywood, 18.3 mm Plywood, 18.3 mm Plywood, 38.1 mm 2x6 Dimensional Lumber, 19.1 mm Kinetics MetaWrx Isolator, 50.8 mm R6.7 Unfaced FiberGass Insulation, 139.7 mm Standard 4000 PSI Concrete, 50.8 mm 18 Gage Vulcraft 2VLI Composite Floor Deck | | | | |
| SPECIMEN AREA | 10.98 m ² | Maximum Temp. | 24.3°C | Minimum Temp. | 21.1°C |
| TECHNICIAN | MSJK | Max. Humidity | 46% | Min. Humidity | 38% |

| FREQ (Hz) | BACKGROUND SPL (dB) | ABSORPTION m ² | NORMALIZED IMPACT SPL (dB) | 95% CONFIDENCE LIMIT | NUMBER OF DEFICIENCIES |
|-------------------|---------------------------|----------------------------------|-------------------------------|----------------------------|------------------------------|
| 80 | 28.4 | 14.0 | 55 | 2.1 | - |
| 100 | 29.7 | 9.9 | 53 | 1.5 | 5 |
| 125 | 27.8 | 8.5 | 55 | 1.0 | 7 |
| 160 | 23.2 | 8.4 | 55 | 0.7 | 7 |
| 200 | 20.8 | 9.8 | 55 | 0.5 | 7 |
| 250 | 15.8 | 9.3 | 51 | 0.3 | 3 |
| 315 | 17.7 | 9.4 | 47 | 0.5 | 0 |
| 400 | 14.8 | 8.1 | 42 | 0.5 | 0 |
| 500 | 15.1 | 7.3 | 35 | 0.5 | 0 |
| 630 | 17.1 | 7.2 | 27 | 0.5 | 0 |
| 800 | 16.8 | 7.4 | 20 | 0.7 | 0 |
| 1000 | 18.7 | 7.2 | 20 | 1.1 | 0 |
| 1250 | 16.1 | 7.4 | 16 | 0.7 | 0 |
| 1600 | 12.1 | 7.8 | 12 | 0.6 | 0 |
| 2000 | 9.4 | 8.7 | 10 | 0.9 | 0 |
| 2500 | 8.2 | 9.4 | 9 | 1.1 | 0 |
| 3150 | 8.0 | 10.3 | 9 | 1.2 | 0 |
| 4000 | 8.5 | 12.0 | 8 | 0.9 | - |
| 5000 | 9.2 | 14.1 | 9 | 1.0 | - |
| 6300 | 9.8 | 17.3 | 11 | 1.0 | - |
| 8000 | 10.7 | 22.5 | 13 | 0.9 | - |
| 10000 | 11.2 | 22.5 | 13 | 1.0 | - |
| IIC Rating | 64 | <i>(Impact Insulation Class)</i> | | Sum of Deficiencies | 29 |

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

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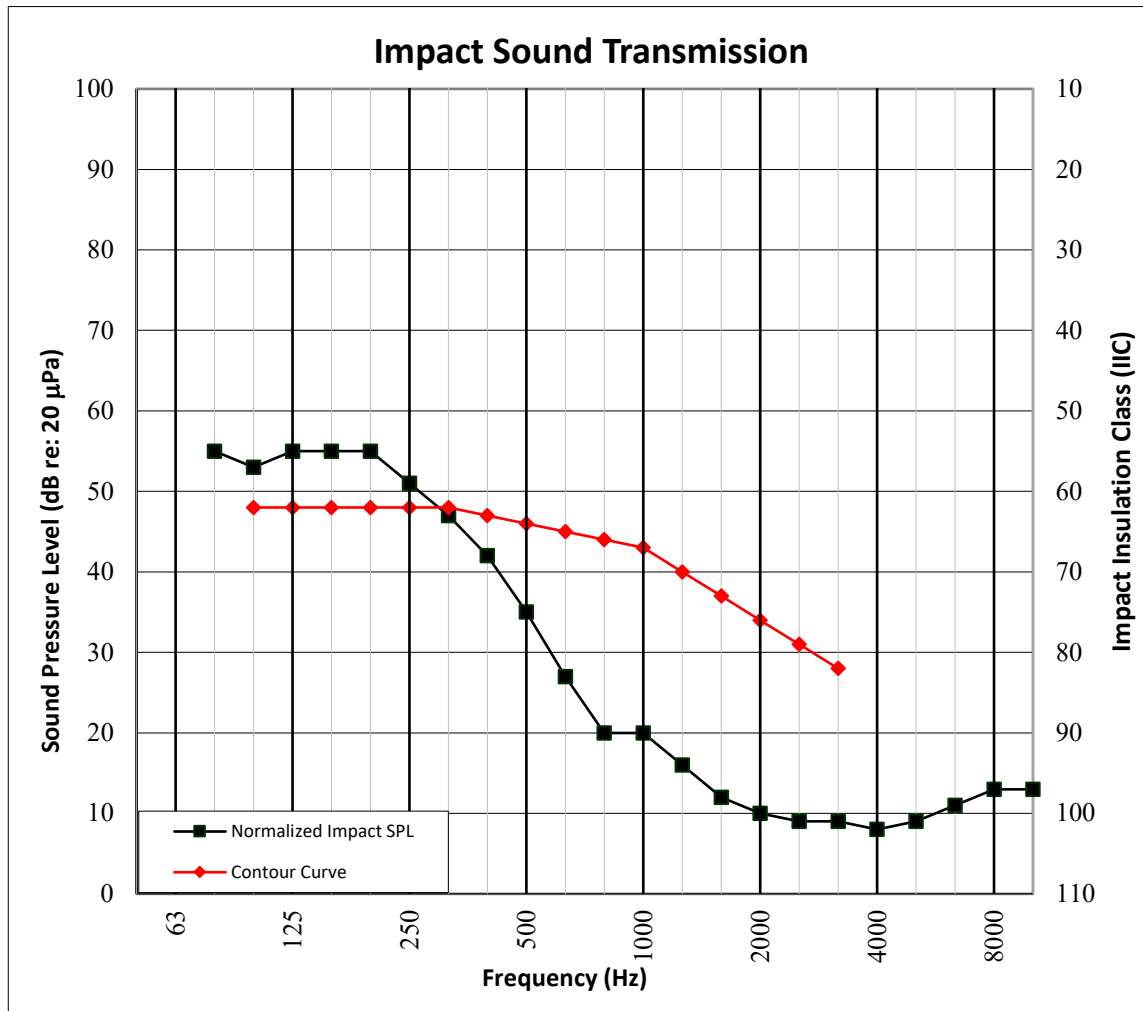
Date: 03/16/22

SECTION 13

TEST RESULTS - IMPACT SOUND TRANSMISSION GRAPH



| | | | | | |
|---------------|--|---------------|--------|---------------|--------|
| TEST DATE | 2/9/2022 | | | | |
| DATA FILE NO. | N3131.15 | | | | |
| CLIENT | Kinetics Noise Control | | | | |
| DESCRIPTION | 6.8 mm Shaw Como Plus Luxury Vinyl Plank, 18.3 mm Plywood, 18.3 mm Plywood, 18.3 mm Plywood, 38.1 mm 2x6 Dimensional Lumber, 19.1 mm Kinetics MetaWrx Isolator, 50.8 mm R6.7 Unfaced Fiberlgass Insulaton, 139.7 mm Standard 4000 PSI Concrete, 50.8 mm 18 Gage Vulcraft 2VLI Composite Floor Deck | | | | |
| SPECIMEN AREA | 10.98 m ² | Maximum Temp. | 24.3°C | Minimum Temp. | 21.1°C |
| TECHNICIAN | MSJK | Max. Humidity | 46% | Min. Humidity | 38% |



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SECTION 14

TEST RESULTS - HIGH-FREQUENCY IMPACT SOUND TRANSMISSION



| | | | | | |
|---------------|--|---------------|--------|---------------|--------|
| TEST DATE | 2/9/2022 | | | | |
| DATA FILE NO. | N3131.15 | | | | |
| CLIENT | Kinetics Noise Control | | | | |
| DESCRIPTION | 6.8 mm Shaw Como Plus Luxury Vinyl Plank, 18.3 mm Plywood, 18.3 mm Plywood, 18.3 mm Plywood, 38.1 mm 2x6 Dimensional Lumber, 19.1 mm Kinetics MetaWrx Isolator, 50.8 mm R6.7 Unfaced Fiberlglas Insulaton, 139.7 mm Standard 4000 PSI Concrete, 50.8 mm 18 Gage Vulcraft 2VLI Composite Floor Deck | | | | |
| SPECIMEN AREA | 10.98 m ² | Maximum Temp. | 24.3°C | Minimum Temp. | 21.1°C |
| TECHNICIAN | MSJK | Max. Humidity | 46% | Min. Humidity | 38% |

| FREQ (Hz) | BACKGROUND SPL (dB) | ABSORPTION m ² | NORMALIZED IMPACT SPL (dB) | 95% CONFIDENCE LIMIT | NUMBER OF DEFICIENCIES |
|--------------|---------------------------|--|-------------------------------|----------------------------|------------------------------|
| 400 | 14.8 | 8.1 | 42 | 0.5 | 13.1 |
| 500 | 15.1 | 7.3 | 35 | 0.5 | 6.6 |
| 630 | 17.1 | 7.2 | 27 | 0.5 | 0.0 |
| 800 | 16.8 | 7.4 | 20 | 0.7 | 0.0 |
| 1000 | 18.7 | 7.2 | 20 | 1.1 | 0.0 |
| 1250 | 16.1 | 7.4 | 16 | 0.7 | 0.0 |
| 1600 | 12.1 | 7.8 | 12 | 0.6 | 0.0 |
| 2000 | 9.4 | 8.7 | 10 | 0.9 | 0.0 |
| 2500 | 8.2 | 9.4 | 9 | 1.1 | 0.0 |
| 3150 | 8.0 | 10.3 | 9 | 1.2 | 0.0 |
| HIIC Rating | 82 | (High-Frequency Impact Insulation Class) | | Sum of Deficiencies | 19.6 |

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

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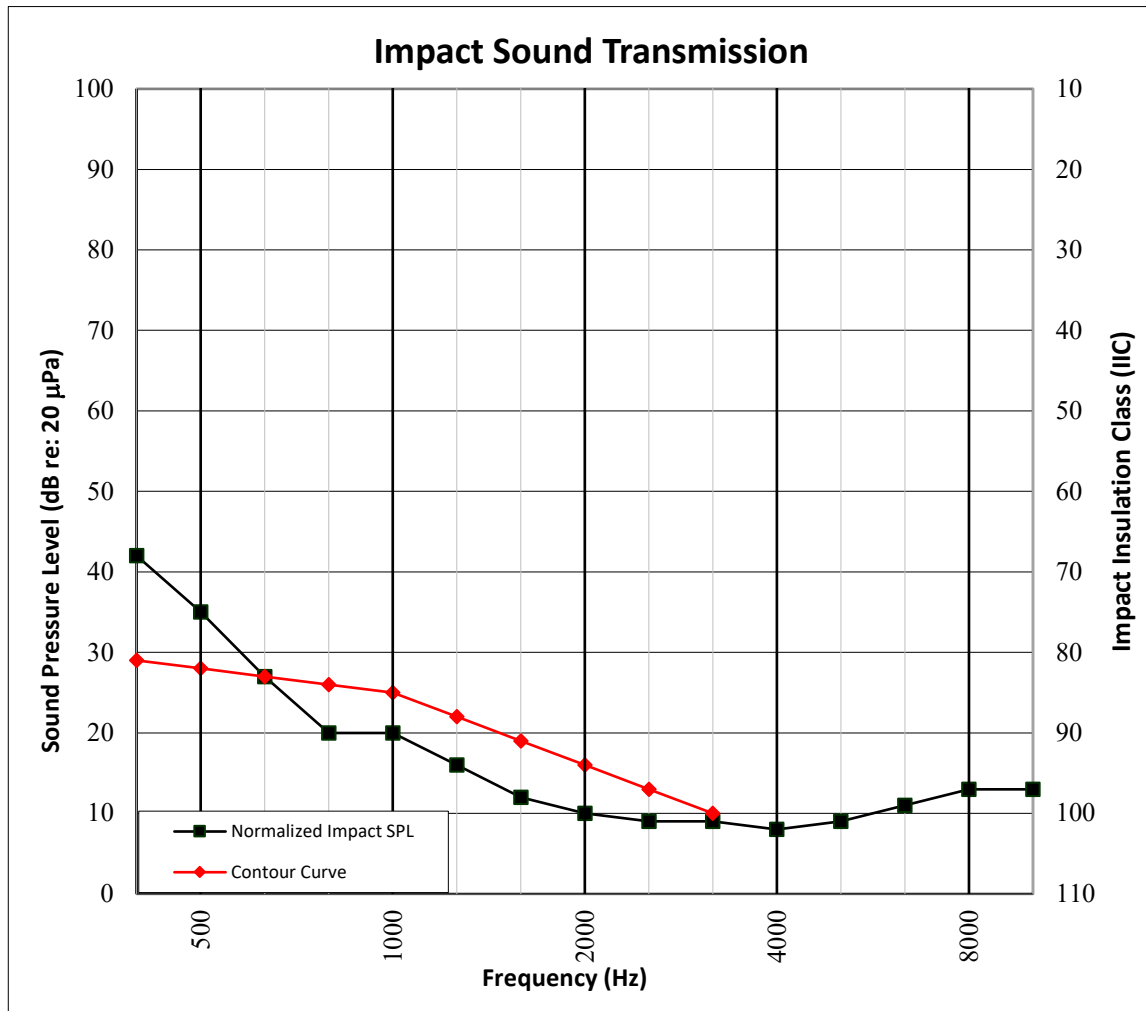
Date: 03/16/22

SECTION 15

TEST RESULTS -HIGH-FREQUENCY IMPACT SOUND TRANSMISSION GRAPH



| | | | | | |
|----------------------|--|----------------------|--------|----------------------|--------|
| TEST DATE | 2/9/2022 | | | | |
| DATA FILE NO. | N3131.15 | | | | |
| CLIENT | Kinetics Noise Control | | | | |
| DESCRIPTION | 6.8 mm Shaw Como Plus Luxury Vinyl Plank, 18.3 mm Plywood, 18.3 mm Plywood, 18.3 mm Plywood, 38.1 mm 2x6 Dimensional Lumber, 19.1 mm Kinetics MetaWrx Isolator, 50.8 mm R6.7 Unfaced Fiberlgass Insulaton, 139.7 mm Standard 4000 PSI Concrete, 50.8 mm 18 Gage Vulcraft 2VLI Composite Floor Deck | | | | |
| SPECIMEN AREA | 10.98 m ² | Maximum Temp. | 24.3°C | Minimum Temp. | 21.1°C |
| TECHNICIAN | MSJK | Max. Humidity | 46% | Min. Humidity | 38% |



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SECTION 16

PHOTOGRAPHS



Photo No. 1

Source Room View of Test Specimen Installation



Photo No. 2

Receive Room View of Test Specimen Installation



Total Quality. Assured.

130 Derry Court
York, PA 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

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SECTION 17

REVISION LOG

| REVISION # | DATE | PAGES | DESCRIPTION |
|------------|----------|-------|-----------------------|
| R0 | 03/16/22 | N/A | Original Report Issue |