

# PXL CROSS LINKED FOAM CORPORATION ACOUSTICAL PERFORMANCE TEST REPORT

#### **SCOPE OF WORK**

ASTM E90, ASTM E492, AND ASTM E2179 TESTING ON 7MM LIFEPROOF VINYL PLANK FLOORING OVER 3.2MM (1/8") ECO CORK FOAM UNDERLAYMENT

#### **SPECIMEN TYPE**

Concrete Slab - 152 mm

#### REPORT NUMBER

M5263.07-113-11-R0

#### **TEST DATE**

07/19/21

#### **ISSUE DATE**

08/23/21

# **RECORD RETENTION END**

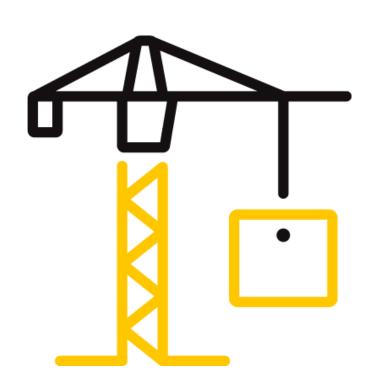
07/19/25

# **PAGES**

17

#### **DOCUMENT CONTROL**

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





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

#### **TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION**

Report No.: M5263.07-113-11-R0

Date: 08/23/21

#### **REPORT ISSUED TO**

#### PXL CROSS LINKED FOAM CORPORATION

210 Willmott Street Unit #4 Cobourg, Ontario K9A 0E9 CANADA

#### **SECTION 1**

#### **SCOPE**

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by PXL Cross Linked Foam Corporation to perform testing in accordance with ASTM E90, ASTM E492, AND ASTM E2179 on 7mm Lifeproof Vinyl Plank Flooring over 3.2mm (1/8") Eco Cork Foam Underlayment. 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.   | M5263.07   |
|-----------------|--|
| SERIES/MODEL:   | 7mm Lifeproof Vinyl Plank Flooring over 3.2mm (1/8") Eco Cork Foam |
| SERIES/IVIODEL: | Underlayment   |
| STC             | 50   |
| IIC             | 58   |
| ΔΙΙC            | 25   |
| HIIC            | 62   |
| ΔΗΙΙС           | 33   |

| <b>COMPLETED BY:</b> | Cody R. Snyder           | <b>COMPLETED BY:</b> | Daniel B. Mohler          |
|----------------------|--------------------------|----------------------|---------------------------|
|                      | Technician Team Leader - |                      | Project Lead - Acoustical |
| TITLE:               | Acoustical Testing       | TITLE:               | Testing                   |
|                      |                          |                      |                           |
|                      |                          |                      |                           |
| SIGNATURE:           |                          | SIGNATURE:           |                           |
| DATE:                | 08/23/21                 | DATE:                | 08/23/21                  |

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of ACCREDITED the tested material, product or service must first be approved in writing by Intertek. The observations and test Testing Laborator results in this report are relevant only to the sample(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.





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

# **TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION**

Report No.: M5263.07-113-11-R0

Date: 08/23/21

#### **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 E2179-21,** Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors

**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 (Concrete Slab - 152 mm) 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 4114.1 kg. B&C will store samples of the test specimen for four years. Photographs of the test specimen are included in the report. A drawing of the test specimen is included in the report.

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.



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

# **TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION**

Report No.: M5263.07-113-11-R0

Date: 08/23/21

# **SECTION 5**

# **EQUIPMENT**

| INSTRUMENT                             | MANUFACTURER         | MODEL    | DESCRIPTION                             | ASSET #  | CAL DA | TE |
|--|----------------------|----------|---|----------|--------|----|
| Data Acquisition Unit                  | National Instruments | PXI-4462 | Data Acquisition Card                   | 63763-1  | 10/20  | *  |
| Data Acquisition Unit                  | National Instruments | PXI-4462 | Data Acquisition Card                   | 63763-4  | 10/20  | *  |
| Data Acquisition Unit                  | National Instruments | PXI-4462 | Data Acquisition Card                   | 65124    | 02/21  | *  |
| Microphone Calibrator                  | Norsonic             | 1251     | Acoustical Calibrator                   | 65105    | 09/20  |    |
| Receive Room Microphone                | PCB Piezotronics     | 378C20   | Microphone and Preamplifier             | 64340    | 11/20  |    |
| Receive Room Microphone                | PCB Piezotronics     | 378B20   | Microphone and Preamplifier             | 65617    | 09/20  |    |
| Receive Room Microphone                | PCB Piezotronics     | 378B20   | Microphone and Preamplifier             | 65968    | 01/21  |    |
| 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             | Comet                | T7510    | Temperature and Humidity                | 63810    | 10/20  |    |
| Indicator                              | Comet                | 17510    | Transmitter                             | 63811    | 10/20  |    |
| 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             | 63747    | 09/20  |    |
| Source Room Microphone                 | PCB Piezotronics     | 378C20   | Microphone and Preamplifier             | 63745    | 09/20  |    |
| Source Room Microphone                 | PCB Electronics      | 378C20   | Microphone and Preamplifier             | 63744    | 09/20  |    |
| Source Room Environmental<br>Indicator | Comet                | T7510    | Temperature and Humidity<br>Transmitter | 63812    | 10/20  |    |
| Tapping Machine                        | Norsonic             | Nor277   | Tapping Machine                         | INT00936 | 01/21  |    |

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

| VT RECEIVE ROOM VOLUME | 158.86 m³          |
|------------------------|--------------------|
| VT SOURCE ROOM VOLUME  | 190 m <sup>3</sup> |

# **SECTION 6**

#### **LIST OF OFFICIAL OBSERVERS**

| NAME             | COMPANY      |
|------------------|--------------|
| Cody R. Snyder   | Intertek B&C |
| Daniel B. Mohler | Intertek B&C |

Version: 03/21/18 Page 4 of 17 RTTDS-R-AMER-Test-2844



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

#### **TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION**

Report No.: M5263.07-113-11-R0

Date: 08/23/21

#### **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 through 15.

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.

The delta impact insulation test was conducted in accordance with ASTM E2179 test method. In addition to the impact sound transmission test, two sound pressure level measurements with the tapping machine operating at each position specified by ASTM E492 with only the concrete slab installed 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), HIIC (High-Frequency Impact Insulation Class), and  $\Delta$ IIC (Delta Impact Insulation Class) ratings were calculated in accordance with ASTM E413, ASTM E989, ASTM E3222, and ASTM E2179, respectively.



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

# **TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION**

Report No.: M5263.07-113-11-R0

Date: 08/23/21

# **SECTION 9**

# **TEST SPECIMEN DESCRIPTION**

| MATERIAL      | DIMENSIONS<br>(mm)  | THICKNESS<br>(mm) | MANUFACTURER AND SERIES | QUANTITY | AVERAGE<br>WEIGHT |  |  |  |
|---------------|---|-------------------|-------------------------|----------|-------------------|--|--|--|
| Vinyl Plank   | 1209 by 221   | 7.0               | Lifeproof               | 10.98 m² | 8.1 kg/m²         |  |  |  |
| Flooring      | Note: Loose laid  |                   |                         |          |                   |  |  |  |
| Foam          | 3023 by 914.4   | 3.2               | (1/8") Eco Cork         | 10.98 m² | 0.39 kg/m²        |  |  |  |
| Underlayment  | Note: Loose laid  |                   |                         |          |                   |  |  |  |
|               | 3023 by 3632  | 152.4             | 5000 PSI                | 10.98 m² | 366.18 kg/m²      |  |  |  |
| Concrete Slab | Note: Installed in a test frame flush to the source room. Mats of #5 reinforcing bars were placed 25.4 mm from both the top and bottom of the slab, with bars spaced on 305 mm centers in both directions. No noticeable shrinkage or cracking was visible on the specimen. |                   |                         |          |                   |  |  |  |



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

# **TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION**

Report No.: M5263.07-113-11-R0

Date: 08/23/21

#### **SECTION 10**

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

| TEST DATE     | <b>DATE</b> 7/19/2021 |  |        |                 |                               |  |  |
|---------------|-----------------------|--|--------|-----------------|-------------------------------|--|--|
| DATA FILE NO. | M5263.07              | M5263.07   |        |                 |                               |  |  |
| CLIENT        | PXL Cross Linke       | d Foam Corporation   |        |                 | ACCREDITED Testing Laboratory |  |  |
| DESCRIPTION   | •                     | 7 mm Lifeproof Vinyl Plank Flooring, 3.2 mm (1/8") Eco Cork Foam Underlayment, 152.4 mm 5000 PSI Concrete Slab |        |                 |                               |  |  |
| SPECIMEN AREA | 10.98 m <sup>2</sup>  | Receive Temp.  | 21.4°C | Source Temp.    | 20.7°C                        |  |  |
| TECHNICIAN    | CRS                   | Receive Humidity   | 77%    | Source Humidity | 77%                           |  |  |

| 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        | 38         | 29.1           | 99           | 62      | 34       | 2.6            | -            |
| 63        | 34.6       | 24.3           | 98           | 60      | 36       | 4.1            | -            |
| 80        | 36.3       | 15.9           | 97           | 61      | 36       | 2.9            | -            |
| 100       | 29.1       | 11.9           | 95           | 59      | 37       | 2.4            | -            |
| 125       | 27.1       | 10.4           | 96           | 57      | 41       | 2.5            | 0            |
| 160       | 24.2       | 10.7           | 94           | 58      | 38       | 1.3            | 0            |
| 200       | 23.5       | 11.6           | 94           | 55      | 40       | 1.3            | 0            |
| 250       | 20.2       | 11.8           | 99           | 56      | 43       | 0.9            | 0            |
| 315       | 20.9       | 12.2           | 102          | 57      | 45       | 0.9            | 1            |
| 400       | 16.8       | 10.8           | 102          | 60      | 42       | 1.0            | 7            |
| 500       | 17.7       | 10.2           | 100          | 58      | 42       | 0.8            | 8            |
| 630       | 20.3       | 10.2           | 103          | 56      | 47       | 1.1            | 4            |
| 800       | 17.7       | 10.3           | 102          | 50      | 52       | 0.6            | 0            |
| 1000      | 17.1       | 10.8           | 102          | 44      | 58       | 0.7            | 0            |
| 1250      | 16.9       | 10.8           | 102          | 41      | 61       | 0.5            | 0            |
| 1600      | 17.8       | 10.7           | 103          | 39      | 64       | 0.6            | 0            |
| 2000      | 16.3       | 11.6           | 103          | 37      | 66       | 0.4            | 0            |
| 2500      | 14.8       | 12.1           | 101          | 34      | 68       | 0.5            | 0            |
| 3150      | 13.2       | 12.9           | 102          | 33      | 70       | 0.6            | 0            |
| 4000      | 12.2       | 13.7           | 103          | 32      | 71       | 0.6            | 0            |
| 5000      | 11.7       | 15.3           | 103          | 30      | 72       | 0.5            | -            |
| 6300      | 10.7       | 18.0           | 98           | 22      | 74       | 0.7            | -            |
| 8000      | 10.8       | 22.2           | 98           | 18      | 77       | 0.7            | -            |
| 10000     | 10.6       | 22.2           | 93           | 9       | 82       | 0.8            | -            |
| STC Ratin | g 50       | (Sound Transmi | ssion Class) |         | Sum o    | f Deficiencies | 20           |

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



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

# TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION

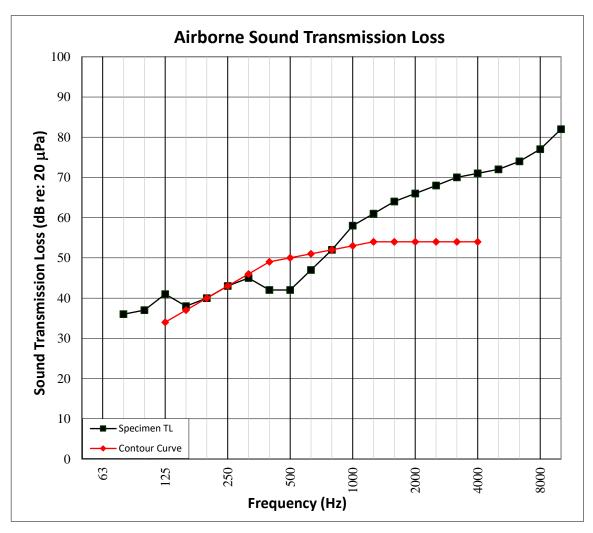
Report No.: M5263.07-113-11-R0

Date: 08/23/21

#### **SECTION 11**

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

| TEST DATE DATA FILE NO. CLIENT DESCRIPTION | 7 mm Lifeproof | d Foam Corporation<br>Vinyl Plank Flooring,<br>152.4 mm 5000 PSI C | • • | •                      | ACCREDITED<br>Testing Laboratory |  |  |
|--|----------------|--|-----|------------------------|----------------------------------|--|--|
| SPECIMEN AREA                              | 10.98 m²       | 0.98 m <sup>2</sup> Receive Temp. 21.4°C Source Temp. 20.7         |     |                        |                                  |  |  |
| TECHNICIAN                                 | CRS            | Receive Humidity   | 77% | <b>Source Humidity</b> | 77%                              |  |  |





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

# **TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION**

Report No.: M5263.07-113-11-R0

Date: 08/23/21

#### **SECTION 12**

# **TEST RESULTS - IMPACT SOUND TRANSMISSION**

| TEST DATE     | 7/19/2021       |   |        |               |                    |  |
|---------------|-----------------|---|--------|---------------|--------------------|--|
| DATA FILE NO. | M5263.07        |   |        |               | ACCREDITED         |  |
| CLIENT        | PXL Cross Linke | d Foam Corporation  |        |               | Testing Laboratory |  |
| DESCRIPTION   | •               | 7 mm Lifeproof Vinyl Plank Flooring, 3.2 mm (1/8") Eco Cork Foam<br>Underlayment, 152.4 mm 5000 PSI Concrete Slab |        |               |                    |  |
| SPECIMEN AREA | 10.98 m²        | Maximum Temp.   | 21.5°C | Minimum Temp. | 21.3°C             |  |
| TECHNICIAN    | CRS             | Max. Humidity   | 77%    | Min. Humidity | 76%                |  |

| FREQ       | BACKGROUND | ABSORPTION       | NORMALIZED IMPACT SPL      | 95%                | NUMBER       |
|------------|------------|------------------|----------------------------|--------------------|--------------|
| THEQ       | SPL        | ABSONI TION      | INOMINALIZED IVII ACT SI E | CONFIDENCE         | OF           |
| (Hz)       | (dB)       | m²               | (dB)                       | LIMIT              | DEFICIENCIES |
| 80         | 41.5       | 15.7             | 56                         | 3.2                | -            |
| 100        | 27.3       | 13.3             | 55                         | 1.3                | 1            |
| 125        | 26.0       | 10.5             | 56                         | 1.3                | 2            |
| 160        | 23.4       | 11.2             | 58                         | 1.0                | 4            |
| 200        | 21.1       | 12.2             | 62                         | 0.6                | 8            |
| 250        | 17.3       | 11.6             | 60                         | 0.8                | 6            |
| 315        | 17.4       | 11.6             | 58                         | 0.6                | 4            |
| 400        | 14.5       | 11.1             | 56                         | 0.5                | 3            |
| 500        | 15.6       | 10.1             | 53                         | 0.4                | 1            |
| 630        | 18.8       | 10.2             | 50                         | 0.4                | 0            |
| 800        | 16.3       | 10.4             | 49                         | 0.5                | 0            |
| 1000       | 16.4       | 10.7             | 43                         | 0.3                | 0            |
| 1250       | 15.7       | 10.8             | 37                         | 0.4                | 0            |
| 1600       | 13.2       | 10.8             | 31                         | 0.4                | 0            |
| 2000       | 13.5       | 11.5             | 26                         | 0.6                | 0            |
| 2500       | 12.4       | 12.3             | 20                         | 0.7                | 0            |
| 3150       | 10.3       | 12.8             | 14                         | 0.7                | 0            |
| 4000       | 10.6       | 13.9             | 12                         | 0.6                | -            |
| 5000       | 10.6       | 15.2             | 13                         | 0.8                | -            |
| 6300       | 10.4       | 18.1             | 11                         | 0.7                | -            |
| 8000       | 10.6       | 22.1             | 10                         | 0.4                | -            |
| 10000      | 10.5       | 22.1             | 10                         | 0.3                | -            |
| IIC Rating | 58         | (Impact Insulati | on Class) S                | um of Deficiencies | 29           |

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



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

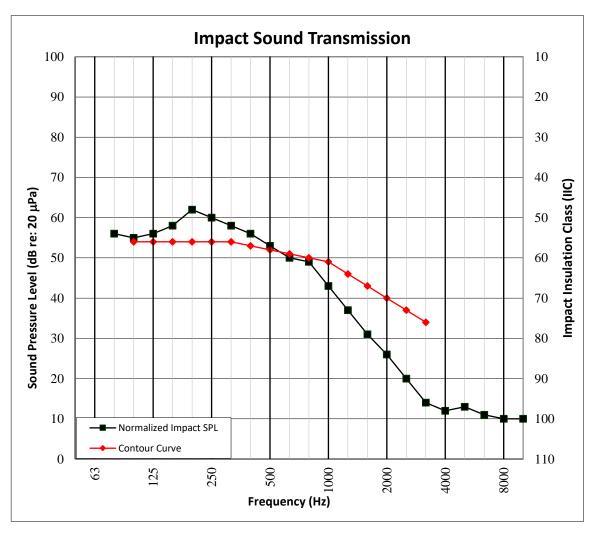
# TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION

Report No.: M5263.07-113-11-R0

Date: 08/23/21

#### **SECTION 13**

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





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

# TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION

Report No.: M5263.07-113-11-R0

Date: 08/23/21

#### **SECTION 14**

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

| TEST DATE     | 7/19/2021       | 7/19/2021   |        |               |            |
|---------------|-----------------|---|--------|---------------|------------|
| DATA FILE NO. | M5263.07        |   |        |               | ACCREDITED |
| CLIENT        | PXL Cross Linke | PXL Cross Linked Foam Corporation   |        |               |            |
| DESCRIPTION   | •               | 7 mm Lifeproof Vinyl Plank Flooring, 3.2 mm (1/8") Eco Cork Foam<br>Underlayment, 152.4 mm 5000 PSI Concrete Slab |        |               |            |
| SPECIMEN AREA | 10.98 m²        | Maximum Temp.   | 21.5°C | Minimum Temp. | 21.3°C     |
| TECHNICIAN    | CRS             | Max. Humidity   | 77%    | Min. Humidity | 76%        |

| FREQ       | BACKGROUND<br>SPL  | ABSORPTION                               | NORMALIZED IMPACT SPL | 95%<br>CONFIDENCE   | NUMBER<br>OF |
|------------|--------------------|--|-----------------------|---------------------|--------------|
| (Hz)       | (dB)               | m²                                       | (dB)                  | LIMIT               | DEFICIENCIES |
| 400        | 14.5               | 11.1                                     | 56                    | 0.5                 | 6.9          |
| 500        | 15.6               | 10.1                                     | 53                    | 0.4                 | 4.7          |
| 630        | 18.8               | 10.2                                     | 50                    | 0.4                 | 3.5          |
| 800        | 16.3               | 10.4                                     | 49                    | 0.5                 | 2.5          |
| 1000       | 16.4               | 10.7                                     | 43                    | 0.3                 | 0.0          |
| 1250       | 15.7               | 10.8                                     | 37                    | 0.4                 | 0.0          |
| 1600       | 13.2               | 10.8                                     | 31                    | 0.4                 | 0.0          |
| 2000       | 13.5               | 11.5                                     | 26                    | 0.6                 | 0.0          |
| 2500       | 12.4               | 12.3                                     | 20                    | 0.7                 | 0.0          |
| 3150       | 10.3               | 12.8                                     | 14                    | 0.7                 | 0.0          |
| HIIC Ratio | <mark>ng</mark> 62 | (High-Frequency Impact Insulation Class) |                       | Sum of Deficiencies | 17.6         |

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



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

# TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION

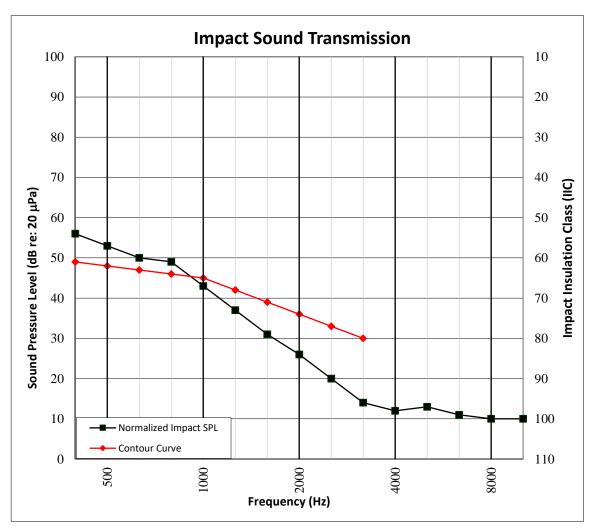
Report No.: M5263.07-113-11-R0

Date: 08/23/21

#### **SECTION 15**

# TEST RESULTS -HIGH-FREQUENCY IMPACT SOUND TRANSMISSION GRAPH

| TEST DATE DATA FILE NO. CLIENT | 7/19/2021<br>M5263.07<br>PXL Cross Linked | ACCREDITED Testing Laboratory   |        |               |        |
|--------------------------------|---|---|--------|---------------|--------|
| DESCRIPTION                    | · · · · · · · · · · · · · · · · · · ·     | mm Lifeproof Vinyl Plank Flooring, 3.2 mm (1/8") Eco Cork Foam<br>Inderlayment, 152.4 mm 5000 PSI Concrete Slab |        |               |        |
| SPECIMEN AREA                  | 10.98 m²                                  | Maximum Temp.   | 21.5°C | Minimum Temp. | 21.3°C |
| TECHNICIAN                     | CRS                                       | Max. Humidity   | 77%    | Min. Humidity | 76%    |





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

# TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION

Report No.: M5263.07-113-11-R0

Date: 08/23/21

#### **SECTION 16**

# **TEST RESULTS - DELTA IMPACT INSULATION**

| TEST DATE     | 7/19/2021       | 7/19/2021   |        |               |            |
|---------------|-----------------|---|--------|---------------|------------|
| DATA FILE NO. | M5263.07        |   |        |               | ACCREDITED |
| CLIENT        | PXL Cross Linke | PXL Cross Linked Foam Corporation   |        |               |            |
| DESCRIPTION   |                 | 7 mm Lifeproof Vinyl Plank Flooring, 3.2 mm (1/8") Eco Cork Foam<br>Underlayment, 152.4 mm 5000 PSI Concrete Slab |        |               |            |
| SPECIMEN AREA | 10.98 m²        | Maximum Temp.   | 21.5°C | Minimum Temp. | 21.3°C     |
| TECHNICIAN    | CRS             | Max. Humidity   | 77%    | Min. Humidity | 76%        |

| FREQ     | BACI<br>SPL  | KGROUND | ABSORPTION    | NORMALIZED<br>IMPACT SPL | 95%<br>CONF | NORMALIZE           | D 95%<br>CONF | RESULT<br>ARRAY    | NUMBER<br>OF DEFI-  |
|----------|--|---------|---------------|--------------------------|-------------|---------------------|---------------|--------------------|---------------------|
| (Hz)     | (dB)   |         | m²            | BARE (dB)                | LIMIT       | SPEC (dB)           | LIMIT         | L <sub>ref,c</sub> | CIENCIES            |
| 100      | 27.3   |         | 13.3          | 57.7                     | 1.7         | 55.4                | 1.6           | 65.0               | 6                   |
| 125      | 26.0   |         | 10.5          | 58.6                     | 1.5         | 56.3                | 1.6           | 65.0               | 6                   |
| 160      | 23.4   |         | 11.2          | 61.6                     | 1.1         | 57.8                | 1.2           | 64.0               | 5                   |
| 200      | 21.1   |         | 12.2          | 65.9                     | 0.8         | 61.5                | 0.8           | 64.0               | 5                   |
| 250      | 17.3   |         | 11.6          | 66.0                     | 0.7         | 60.0                | 1.0           | 63.0               | 4                   |
| 315      | 17.4   |         | 11.6          | 66.5                     | 0.9         | 57.8                | 0.8           | 61.0               | 2                   |
| 400      | 14.5   | 1       | 11.1          | 67.7                     | 0.6         | 55.9                | 0.6           | 58.0               | 0                   |
| 500      | 15.6   |         | 10.1          | 68.4                     | 0.7         | 52.7                | 0.5           | 55.0               | 0                   |
| 630      | 18.8   |         | 10.2          | 70.4                     | 0.6         | 50.5                | 0.5           | 51.0               | 0                   |
| 800      | 16.3   |         | 10.4          | 71.2                     | 0.7         | 48.5                | 0.6           | 49.0               | 0                   |
| 1000     | 16.4   |         | 10.7          | 71.5                     | 0.4         | 43.1                | 0.4           | 44.0               | 0                   |
| 1250     | 15.7   | 1       | 10.8          | 72.4                     | 0.5         | 37.4                | 0.5           | 37.0               | 0                   |
| 1600     | 13.2   |         | 10.8          | 72.6                     | 0.6         | 31.1                | 0.5           | 30.0               | 0                   |
| 2000     | 13.5   |         | 11.5          | 73.0                     | 0.7         | 25.7                | 0.8           | 25.0               | 0                   |
| 2500     | 12.4   |         | 12.3          | 72.6                     | 0.8         | 19.9                | 0.9           | 19.0               | 0                   |
| 3150     | 10.3   |         | 12.8          | 71.9                     | 1.1         | 14.0                | 0.9           | 14.0               | 0                   |
| ΔIIC Rat | ing  | 25      | (Delta Impact | : Insulation Class       | ;)          |                     | Sum of        | Deficiencie        | e <mark>s</mark> 28 |
| ΔHIIC Ra | MHIIC Rating 33 (Delta High-Frequency Impact Insulation Class) |         |               | Sum of                   | Deficiencie | e <mark>s</mark> 19 |               |                    |                     |

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



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

# **TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION**

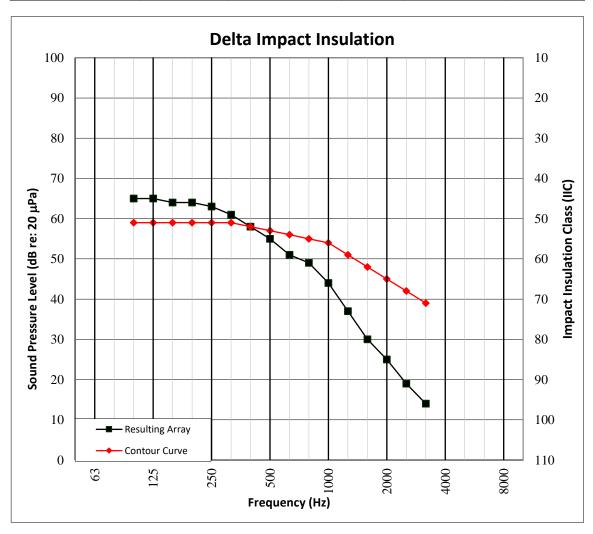
Report No.: M5263.07-113-11-R0

Date: 08/23/21

#### **SECTION 17**

# **TEST RESULTS - DELTA IMPACT INSULATION GRAPH**

| TEST DATE     | 7/19/2021       |  |        |               |            |  |
|---------------|-----------------|--|--------|---------------|------------|--|
| DATA FILE NO. | M5263.07        |  |        |               | ACCREDITED |  |
| CLIENT        | PXL Cross Linke | PXL Cross Linked Foam Corporation  |        |               |            |  |
| DESCRIPTION   | •               | mm Lifeproof Vinyl Plank Flooring, 3.2 mm (1/8") Eco Cork Foam Underlayment, 152.4 mm 5000 PSI Concrete Slab |        |               |            |  |
| SPECIMEN AREA | 10.98 m²        | Maximum Temp.  | 21.5°C | Minimum Temp. | 21.3°C     |  |
| TECHNICIAN    | CRS             | Max. Humidity  | 77%    | Min. Humidity | 76%        |  |





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

# **TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION**

Report No.: M5263.07-113-11-R0

Date: 08/23/21

# **SECTION 18**

# **PHOTOGRAPHS**



Photo No. 1 Source Room View of Test Specimen Installation



Photo No. 2
Receive Room View of Test Specimen Installation



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

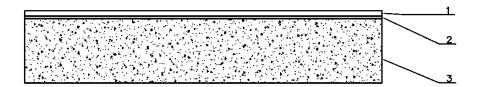
# **TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION**

Report No.: M5263.07-113-11-R0

Date: 08/23/21

# **SECTION 19**

# **DRAWING**



1-Floor Topping

- 2-Underlayment
- 3-Concrete Slab



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

# **TEST REPORT FOR PXL CROSS LINKED FOAM CORPORATION**

Report No.: M5263.07-113-11-R0

Date: 08/23/21

#### **SECTION 20**

#### **REVISION LOG**

| <b>REVISION</b> # | DATE     | PAGES | DESCRIPTION           |
|-------------------|----------|-------|-----------------------|
| RO                | 08/23/21 | N/A   | Original Report Issue |