XPR ARCHITECT

Extreme polymer rigid core waterproof

XPR + PAD

Century Gray

Egyptian Gold

Roman White

Tudor Brown

Victorian Ash

PARKAY FLOORS

SCAN » INFO & LIVE

www.parkayfloors.com

XPR ARCHITECT

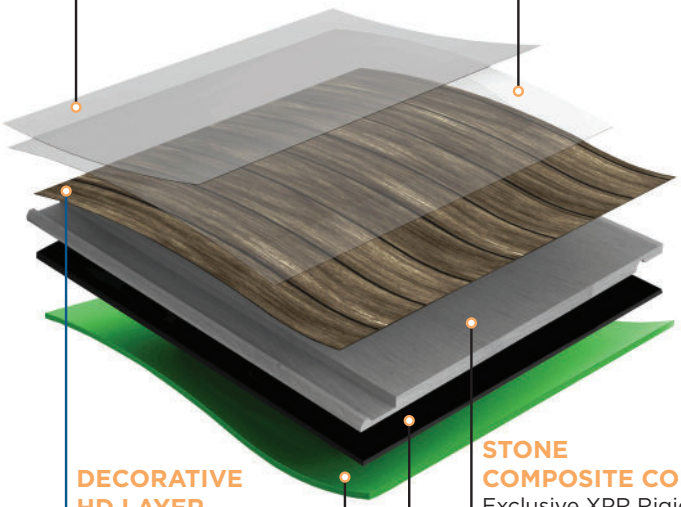
Extreme polymer rigid core waterproof

XPR + PAD

PROTECTIVE WEAR LAYER (0.3 mm/12 MIL)
Prevents against excessive wear, tear resistance, and provides superior stain protection. Registered Emboss.

PARKAY-CERAMIK® COAT
UV-cured coating reinforced with ceramic beads provides extra durability and easy care in demanding enviroments.

(Available in Weathered & Antique Collections)



DECORATIVE HD LAYER
Realistic designs impress in High Resolution, creating a unique natural style.

STONE COMPOSITE CORE
Exclusive XPR Rigid Core. 100% Waterproof, prevents expansion and contraction, absorbs subfloor imperfections, glueless installation.

IXPE CUSHION PAD (1.0mm)
Provides sound reduction, feet comfort, and easier iinstallation.

BACKING LAYER
High vinyl content layer, provides robust foundation and impact resistance.

XPR + PAD

100% Waterproof

Phthalates Free No VOC

12 MIL (0.3mm) Wear Layer

Angle Click System

Transition Molding

Registered Emboss

V Groove

25 Years Warranty

Limited Warranty

PARKAY FLOORS

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DATA SHEET ARCHITECT

	METHOD	PARAMETERS	NORM REQUIREMENTS	VALUES
Technical Data				
Total thickness	ISO24337:2006		pp	5.2mm
Composite Rigid Core		100% Virgin PCV		4.2mm
Top layer	ISO24337:2006			0.3mm
Plank Width	ISO24337:2006			7.09" / 180mm
Plank Length	ISO24337:2006			48.03" / 1220mm
Units per Box				10
SF per Box				23.64
Locking System				Angle Click
Class	ISO10874:2009 EN16511:2014			23/31
Warranty		Residential (Structural)	See warranty for conditions	25 years
Warranty		Light Commercial(struct)	See warranty for conditions	7 Years
Wear Class	EN13329			12MIL
Impact Resistance Big Ball	EN13329		Impact height: ≥800mm(class31)	No visible damage
Scratch Resistance	ISO 1518-1:2011(E)		≥2500g	2700g
Staining	EN438-2:2016	Groups1,2	Grade5	Rating5: No change
		Groups3	Grade3	Rating3: Moderate change
Light Fastness	ISO 105B02 2014	Blue Wool	Class 6	>Grade 6
Burning Cigarette		≤5s		No visible damage
Dimensional Variation	ISO24337:2006	Length	lnom≤1500mm: Δl≤0.5mm	Δl: 0.0mm
		Width	Δwavg≤0.10mm wmax-wmin≤0.20mm	Δwavg: 0.00mm wmax-wmin: 0.10mm
		Thickness	Δtavg≤0.50mm tmax-tmin≤0.50mm	Δtavg: 0.05mm tmax-tmin: 0.25mm
Emission of Formaldehyde	EN717-1		E1≤0.1mg/m³	≤0.003mg/m³
A-static	EN1815	Charge human body		≤2.0KV
Slip Resistance	DIN 51330:2014-02		X Direction (parallel to length direction)	R10
			Y Direction (parallel to width direction)	R10
Resistance to Heat	ASTM F1514-03 (2013)			Average ΔE*ab: 0.26 (see Note 2)
Underfloor Heating		≤28°C		≤28°C
Fire Classification	DIN 4102-1:1998-05			B1

INSTALLATION INSTRUCTIONS

PARKAY XPR Architect Installation Instructions/Warranty

BEFORE YOU START

1. Read Parkay Floors installation instructions before beginning.

2. Product cannot be used for exterior applications.

3. PARKAY XPR FLOORING has a patented locking system making it ideal for a floating installation. This product must be glued down when used for light traffic commercial applications.

4. Avoid constant exposure to excessive temperatures or direct sunlight for extended periods of time, since this might cause planks to pick, separate or decolorate. Please consider these exposures when choosing your product. Parkay recommends the use of shades.

5. PARKAY XPR FLOORING does not need to be acclimated if stored and installed in a temperate-controlled environment, maintain between 60ºF and 85ºF. Additional acclimation must be considered when temperatures mentioned above are not met. Store flat and fully supported during shipping and storage. It is not necessary to remove material from packaging while acclimating. Allow the product to condition in the room where installation is to take place at a constant temperature between 60ºF and 85ºF or 18ºC – 29ºC, for a period of 48 hours prior to installation.

6. Slight variations in color and structure are designed to enhance the natural appearance of the product. Mixing the planks creates a more uniform appearance. Make sure to shuffle planks from different cartons prior to installation.

7. Check PARKAY XPR FLOORING for possible defects prior to the installation. Complaints can only be accepted before installation. Parkay Floors® will not be responsible, or will compensate for any installation, if the floor was installed having an obvious or even a minor visual defect.

8. In facilities where walkers, wheelchairs (i.e.), residential and or with extended care use, or in facilities with movement of heavy displays, racks, dentist chairs, etc. These types of installations may exert extreme stress and compromise the locking system.

9. Entryways must always be covered with walk off mats and rolling chairs with chair mats.

10. Moisture content on the subfloor must not exceed 5 lbs./1000ft2/24-hr (ASTMF2170), for this product to be installed.

11. Always cover furniture feet with proper materials.

12. Fixed cabinets or heavy objects cannot be installed when performing a floating installation.

13. Do not install this product over carpet.

14. Underlayment is not necessary for collections carrying an attached padding.

15. Transition moldings are required to separate any area exceeding 2,500 square feet or 50 lineal feet.

THE SUBFLOOR

1. Although PARKAY XPR FLOORING planks are water/moisture proof, they are not to be used as a moisture barrier. Your subfloor should be completely dry prior to installation. Keep in mind that constant moisture coming from the subfloor or topically, will cause mold and mildew to be trapped underneath the product, contributing to an unhealthy environment. Parkay Floors® will not warrant any product based on damages coursed by excessive moisture. Subfloors presenting vapor emissions between 2.5% to 5% (CM-Method), must install a 6mil Poly-plastic block before laying the cushioned underlayment. All concrete subfloors must use plastic block for extra moisture protection. Parkay recommends Polyguard PRO 6 as an ideal plastic block for extra moisture protection.

2. Subfloors must be structurally sound, solid, stable, level, plumb, and true to a tolerance in plane of 3/16" in 10 feet (4.7mm in 4m). Cracks and holes must be filled with a fast-drying setting cement- based polymer modified patching compound or equivalent. Any unevenness over 3/16" (4.7mm) must be sanded down, leveled or ramped to a 0º. The surface must be totally clean of dirt, oil, glue residue etc. Carpet tackles, staples or adhesive residue should be removed prior to installation. Voids or humps in the subfloor will prevent the planks from locking properly.

3. PARKAY XPR FLOORING can be installed on existing firm floors (Linoleum, PVC), but all floating or textile floors must be removed. When laying the floor over existing ceramic tiles first level with fast setting cement-based polymer modified patching compound.

4. The installer has the final responsibility to determine if the subfloor is dry and leveled enough to begin with the installation.

5. This product has an attached IXPE 1mm underlayment. It must be glued down when used for any commercial application, using a pressure sensitive adhesive. Parkay Floors recommends and warranties their floors only when using Locbond Advanced 300 Pressure Sensitive Adhesive. Find more information at

www.locbondusa.com

MEASUREMENTS

1. Agree with the client on which direction the floorboards should run since this influences the visual size ratio of the space. Installation parallel to the longest wall or the main light-source is recommended for the best visual effect.

2. Pre-plan the floor by measuring the room first. If the width of the last row is less than 2" (5cm) saw the first and the last plank in equal width.

3. Snap the lines on the substrate to identify the layout reference points. Planks should be set using this reference to ensure boards are aligned and will lock together correctly.

4. In large areas where flooring will span more than 40' long, an expansion gap should be used. Otherwise place expansion space in room-narrowing and in the door-rebate. Cover the expansion space with suitable moldings.

Different production runs

PARKAY XPR FLOORS can have slight color variations in between production runs. Before starting the installation, it is best to check the production run # which is indicated on the label on the carton. If you find that you have cartons from different production runs, it is highly recommended to open cartons and install a mix of planks from each different production run on your floor. This will result in a more natural looking floor. Do NOT install your PARKAY XPR FLOORS over soft subfloors such as carpet, floating floors or foam underlayments, different than the ones recommended by the manufacturer.

The use of pull bar and tapping block is recommended to ensure a successful install.

PARKAY XPR FLOORS provides a very tight fit. Proper care must be used to ensure all seams are tight at end of install. An unprofessional installation or use of improper tools can result in damage to the Click profiles.

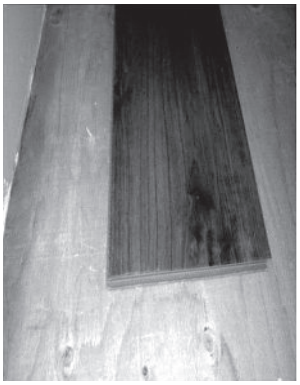
INSTALLATION INSTRUCTIONS

First row:

1. Diagram #1: Start with the first plank in the left corner of the room, tongue-side facing out from the wall to the length and to the right on the width. Work from left to right.

2. Diagram #2: Position the following planks as an exact extension of the first one.

3. Cut to fit the last plank of the row. To do this you can use a utility knife to score the surface at the appropriate point and then break the title over an edge. A laminate cutter or miter saw can be used as well.



1

2

3

4

Following rows:

1. Diagram #3: Begin the second row with the cut-off end to start the next and subsequent rows. Allow at least an 8" stagger for the end seams. For positioning the planks together, starting with the first tile in the row, raise the plank at a 45-degree angle, insert the lengthways tongue into the lengthways groove and lower the plank while holding the two together until they are flat and tightly together. Close the join using hand pressure, tapping block or pull bar.

2. Diagram #4: Lever the next sheet in place from the front side so that only a very short distance remains for it to be pushed into the lengthways connection.

5

6

7

3. Diagram #5, 6 and 7: Raise the plank slightly and push it into the lengthways tongue, first close to the front connection, then the rest. Make sure seams are tight on ends and sides using pull bar or tapping block before proceeding. Continue the installation to the last row of sheets, as described.

4. How to shorten doorframes: Position a lose plank face down, close to the doorframe, and cut with a jamb saw.

5. People can walk on the flooring immediately after the installation. Remove the wedges. Nail or screw moldings to the wall, never to the floor.

INSTALLATION OVER RADIANT HEATED SUBFLOORS

PARKAY XPR FLOOR Flooring is not recommended to be installed over any electrical radiant heating systems. Only radiant heated system using water are recommended. Max heating temperate must not exceed 81 F. These Instructions must be followed:

Before installing, make sure to test the heating system at its maximum capacity to force out any residual moisture and to make sure it's working properly.

Moisture content on screed must not exceed 1.5%.

Shut down the heating system at least 48 hours prior to installation.

Keep room temperate between 68ºF and 77ºF during the installation.

After flooring is install, turn on the heating system gradually, from minimum to maximum within 1-hour period.

MAINTENANCE

Clean regularly with a damp mop with a vinyl floor cleaner such as Bona Pro Series Vinyl Cleaner. Do not use excessive water. Remember to clean up spills as soon as possible. Always use chair protectors under furniture and on chair legs. Felt pad protectors are best. Always add floor mats on area where rolling chairs are being used.

25 YEARS RESIDENTIAL / 7 YEAR LIGHT COMMERCIAL WARRANTY

Our 7 years limited light commercial warranty for PARKAY XPR FLOORING means that for seven years, from the date of purchase from the original owner and first installation of the product, your floor will be free from manufacturing defects and will not wear through when installed and maintained according to instructions supplied with each carton. This warranty applies only to the original end user with a proof of purchase, warranty is not transferable. Floors must have been installed by a licensed and insured professional to be able to process any claim. The guarantee is for replacement or refund of the material only, no labor. Claims for wear must show a minimum dime size area. High-heeled shoes, rolling carts, furniture and chairs without protective pads can damage the floor and are not covered by this warranty.

Warranty covers against: Staining, Wear, Fading as a result or natural or artificial light, damage by moisture from everyday household spills and manufacturing defects. Floor will only be replaced for one of the same monetary value.

If more than 5% of the product pulled out of the cartons is showing defects, stop the installation immediately and contact your Parkay representative. Transition moldings are not covered under this warranty. Scratches and loss of gloss are not considered a wear-through issue. Up to 10% gloss variance is considered completely normal between planks.

This warranty excludes damage by natural disasters. This warranty excludes floors in contact with moisture trapped beneath the floor. The general warranty is pro rata (25 years for flooring). A pro rata warranty is one that provides for a refund or credit that decreases according to a set formula as the warranty period progresses. A claim process takes up to 90 days to process, from the date Parkay is contacted. We require a detailed description with images of the issue that clearly show the problem. Contact Parkay dealer no later than 15 days after the discovery of the defect. Your dealer will arrange for proper inspection and coordinate a resolution of your claim.

Parkay Floors® reserves the right to modify the contents of this warranty at any and without previous notice. Please refer to our website to obtain the latest version of our warranty.

For service under this warranty or technical questions, please go to www.Parkayfloors.com or contact your local retailer.

Describe the problem and in many cases, the retailer can provide you with a solution.

TESTS & CERTIFICATIONS

TEST REPORT

for

Parkay Floors
10360 NW 53 St.
Sunrise, FL 33351
Alberto Garcia / 954-726-4515

Sound Transmission Loss Test

ASTM E 90 – 09 (2016) / E 413 – 16

On

6 Inch (152 mm) Concrete Slab Floor- Ceiling Assembly Overlaid with XPR - Parweabro Flooring

Report Number: NGC 5019077

Assignment Number: G-1628

Test Date: 09/25/2019

Report Approval Date: 10/02/2019

Submitted by: _____
Anthony J. Rivers
Test Technician

Reviewed by: _____
Robert J. Menchetti
Director

Revision Summary:

Date	SUMMARY
Approval Date: 10/02/2019	Original issue date. 10/02/2019 Original NGCTS report: NGC 5019077

Report Number: NGC 5019078

Test Method: This test method conforms explicitly with the American Society for Testing and Materials Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements – Designation: E 90 – 09 (2016) / E 413 - 16.

Specimen Description: 6 inch concrete slab floor ceiling assembly overlaid with, according to client, XPR – Parweabro Flooring.

The test specimen was a floor assembly and was observed to consist of the following:
All weights and dimension are averaged:

- 1 layer of, according to the client, XPR – Parweabro Flooring. The flooring was adhered to the concrete slab using Locbond 500 adhesive. The adhesive was applied using a 4.76 mm x 4.76 mm x 3.97 mm (3/16 in. x 3/16 in. x 5/32 in.) V notch trowel. Measured thickness: 5.59 mm (0.22 in.), Measured weight: 8.74 kg/m^2 (1.79 PSF)
- 152.4 mm (6 in.) thick reinforced concrete slab, weighing: 366.2 kg/m^2 (75.00 PSF)

The overall weight of the test assembly is: 374.89 kg/m^2 (76.79 PSF)

The perimeter of the test frame was sealed with a rubber gasket and a sand filled trough.

The test frame was structurally isolated from the receiving room.

Specimen size: 3657.6 mm x 4876.8 mm (12 ft. x 16 ft.)

Conditioning: Concrete slab cured for a minimum of 28 days. Adhesive cured a minimum of 24 hours.

Test Results: The results of the tests are given on pages 4 and 5 of the report.

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Acoustical Testing Laboratory

NVLAP TESTING
NVLAP LAB CODE 200291-0

Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation.

Sound Transmission Loss Test Data

Test: ASTM E 90 - 09 (2016) / ASTM E 413 - 16

Test Report: NGC 5019077 Date: 9/25/2019
Specimen Size [m²]: 17.8

Source room		Receiving room	
Volume [m³]:	86	Volume [m³]:	127
Rm Temp [°C]:	25	Rm Temp [°C]:	22
Humidity [%]:	55	Humidity [%]:	57

Sound Transmission Class STC [dB]: 50

Sum of Unfavorable Deviations [dB]: 26
Max. Unfavorable Deviation [dB]: 5 at 400 Hz

Frequency [Hz]	STL [dB]	L1 [dB]	L2 [dB]	d [dB/s]	Corr. [dB]	u.Dev. [dB]	ΔSTL
80	37	102.2	68.7	22.6	3.5		1.90
100	35	104.0	72.2	25.0	3.2		4.40
125	31	104.0	77.8	18.9	4.7	3	2.36
160	33	105.7	77.7	15.7	5.1	4	1.72
200	39	106.6	73.2	15.5	5.6	1	0.85
250	42	103.9	67.3	16.8	5.4	1	0.78
315	43	101.3	63.1	16.3	4.8	3	0.86
400	44	100.2	61.1	17.7	4.9	5	0.87
500	47	101.4	59.4	18.2	5.0	3	1.02
630	47	101.7	58.7	18.7	4.0	4	0.88
800	50	100.0	53.9	19.3	3.9	2	0.62
1000	55	98.3	48.0	19.0	4.7		0.37
1250	57	97.3	44.2	20.2	3.9		0.43
1600	61	97.5	40.8	21.6	4.3		0.77
2000	65	99.8	38.0	24.3	3.3		0.62
2500	68	101.2	36.2	26.8	2.9		1.17
3150	71	100.4	32.0	29.0	2.6		1.17
4000	73	97.8	27.2	33.2	2.4		1.61
5000	76	90.9	16.3	38.7	1.4		1.58

STL = Sound Transmission Loss, dB
L1 = Source Room Level, dB
L2 = Receiving Room Level, dB
d = Decay Rate dB/second
Δ STL = Uncertainty for 95% Confidence Level

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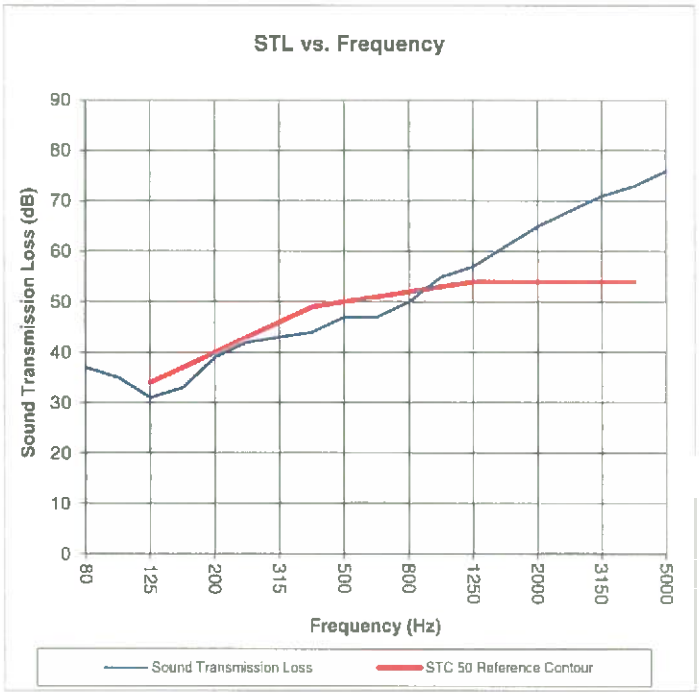
Sound Transmission Loss Test Data

Test: ASTM E 90 - 09 (2016) / ASTM E 413 - 16

Test Report: NGC 5019077
Test Date: 9/25/2019
Specimen Size [m²]: 17.8

Sound Transmission Class STC = 50 dB

Frequency [Hz]	STL [dB]	ΔSTL
80	37	1.90
100	35	4.40
125	31	2.36
160	33	1.72
200	39	0.85
250	42	0.78
315	43	0.86
400	44	0.87
500	47	1.02
630	47	0.88
800	50	0.62
1000	55	0.37
1250	57	0.43
1600	61	0.77
2000	65	0.62
2500	68	1.17
3150	71	1.17
4000	73	1.61
5000	76	1.58



* Due to high insulating value of specimen, background levels limit results at these frequencies.

STL = Sound Transmission Loss, dB
Δ STL = Uncertainty for 95% Confidence Level

TEST REPORT

for

Parkay Floors
10360 NW 53 St.
Sunrise, FL 33351
Alberto Garcia / 954-726-4515

Sound Transmission Loss Test

ASTM E 90 – 09 (2016) / E 413 – 16

On

6 Inch (152 mm) Concrete Slab Floor- Ceiling Assembly
Overlaid with XPR - Parweabro Flooring
With a Suspended Gypsum Board Ceiling
With 3-1/2 Inch Fiberglass Insulation

Report Number: NGC 5019078

Assignment Number: G-1628

Test Date: 09/27/2019

Report Approval Date: 10/02/2019

Submitted by: _____
Anthony J. Rivers
Test Technician

Reviewed by: _____
Robert J. Menchetti
Director

Revision Summary:

Date	SUMMARY
Approval Date: 10/02/2019	Original issue date. 10/02/2019 Original NGCTS report: NGC 5019078

Report Number: NGC 5019078

Test Method: This test method conforms explicitly with the American Society for Testing and Materials Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements – Designation: E 90 – 09 (2016) / E 413 - 16.

Specimen Description: 6 inch concrete slab floor suspended ceiling assembly overlaid with, according to client, XPR – Parweabro Flooring, with 3-1/2 inches of fiberglass insulation.

The test specimen was a floor assembly and was observed to consist of the following:
All weights and dimension are averaged:

- 1 layer of, according to the client, XPR – Parweabro Flooring. The flooring was adhered to the concrete slab using Locbond 500 adhesive. The adhesive was applied using a 4.76 mm x 4.76 mm x 3.97 mm (3/16 in. x 3/16 in. x 5/32 in.) V notch trowel. Measured thickness: 5.59 mm (0.22 in.), Measured weight: 8.74 kg/m^2 (1.79 PSF)
- 152.4 mm (6 in.) thick reinforced concrete slab, weighing: 366.2 kg/m^2 (75.00 PSF)
- 1 layer of, 88.9 mm (3-1/2 in.) unfaced fiberglass batt insulation, Sample weight: 0.78 kg/m^2 (0.16 PSF)
- Gypsum wallboard ceiling grid suspension system. System is comprised of main tees and cross tees. The main tees were placed 1219.2 mm (48 in.) o.c. and the cross tees were placed 609.6 mm (24 in.) o.c. 16 gauge galvanized tie wire was used to attach the main tees to concrete anchors, located 1219.2 mm (48 in.) o.c. along the longitudinal axis, suspending the grid 304.8 mm (12 in.) below the concrete slab.
- 1 layer of, 15.9 mm (5/8 in.) Type X gypsum wallboard. The wallboard was attached parallel to the suspended grid suspension system mains, using 31.8 mm (1-1/4 in.) Type S drywall screws spaced 304.8 mm (12 in.) o.c. The wallboard joints were taped. Suspended gypsum wallboard grid ceiling weighed: 11.23 kg/m^2 (2.30 PSF)

The overall weight of the test assembly is: 386.90 kg/m^2 (79.25 PSF)

The perimeter of the test frame was sealed with a rubber gasket and a sand filled trough.

The test frame was structurally isolated from the receiving room.

Specimen size: 3657.6 mm x 4876.8 mm (12 ft. x 16 ft.)

Conditioning: Concrete slab cured for a minimum of 28 days. Adhesive cured a minimum of 24 hours.

Test Results: The results of the tests are given on pages 4 and 5 of the report.

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Sound Transmission Loss Test Data

Test: ASTM E 90 - 09 (2016) / ASTM E 413 - 16

Test Report: NGC 5019078 Date: 9/27/2019
Specimen Size [m²]: 17.8

Source room		Receiving room	
Volume [m³]:	86	Volume [m³]:	127
Rm Temp [°C]:	25	Rm Temp [°C]:	23
Humidity [%]:	55	Humidity [%]:	58

Sound Transmission Class STC [dB]: 61

Sum of Unfavorable Deviations [dB]: 32
Max. Unfavorable Deviation [dB]: 7 at 125 Hz

Frequency [Hz]	STL [dB]	L1 [dB]	L2 [dB]	d [dB/s]	Corr. [dB]	u.Dev. [dB]	ΔSTL
80	40	102.5	65.0	27.2	2.4		2.87
100	45	104.1	62.5	25.9	3.4		4.42
125	38	103.6	70.3	18.5	4.8	7	2.32
160	43	106.1	68.3	17.0	5.1	5	1.90
200	50	106.7	62.4	15.0	5.7	1	0.92
250	50	103.1	58.6	15.6	5.4	4	0.87
315	51	101.1	55.7	15.0	5.6	6	1.06
400	54	100.0	50.6	16.9	4.5	6	0.56
500	59	101.1	46.6	17.7	4.4	2	0.65
630	61	101.4	45.2	18.6	4.8	1	0.59
800	64	100.0	40.9	18.8	4.9		0.48
1000	68	97.9	34.9	18.3	5.0		0.35
1250	73	97.5	29.3	19.3	4.7		0.65
1600	74	97.2	27.2	20.8	4.0		0.46
2000	75	99.2	27.1	24.3	2.9		0.68
2500	77	101.1	27.0	27.0	2.9		0.89
3150	79	100.1	24.0	28.7	2.9		1.04
4000	81	97.9	18.6	32.6	1.7		1.47
5000	82	91.0	10.4	37.1	1.5		1.70

STL = Sound Transmission Loss, dB
L1 = Source Room Level, dB
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d = Decay Rate dB/second
Δ STL = Uncertainty for 95% Confidence Level

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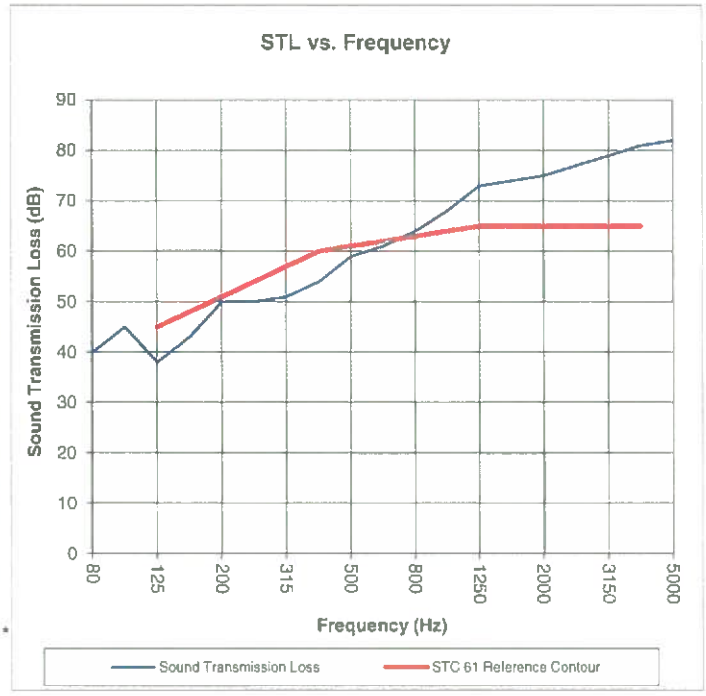
Sound Transmission Loss Test Data

Test: ASTM E 90 - 09 (2016) / ASTM E 413 - 16

Test Report: NGC 5019078
Test Date: 9/27/2019
Specimen Size [m²]: 17.8

Sound Transmission Class STC = 61 dB

Frequency [Hz]	STL [dB]	ΔSTL
80	40	2.87
100	45	4.42
125	38	2.32
160	43	1.90
200	50	0.92
250	50	0.87
315	51	1.06
400	54	0.56
500	59	0.65
630	61	0.59
800	64	0.48
1000	68	0.35
1250	73	0.65
1600	74	0.46
2000	75	0.68
2500	77	0.89
3150	79	1.04
4000	81	1.47
5000	82	1.70



* Due to high insulating value of specimen, background levels limit results at these frequencies.

STL = Sound Transmission Loss, dB
Δ STL = Uncertainty for 95% Confidence Level

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TEST REPORT

for

Parkay Floors
10360 NW 53 St.
Sunrise, FL 33351
Alberto Garcia / 954-726-4515

Sound Transmission Loss Test

ASTM E 90 – 09 (2016) / E 413 – 16

On

6 Inch (152 mm) Concrete Slab Floor- Ceiling Assembly
Overlaid with XPR - Parweabro Flooring
With a Suspended Gypsum Board Ceiling
With 3-1/2 Inch Fiberglass Insulation

Report Number: NGC 5019078

Assignment Number: G-1628

Test Date: 09/27/2019

Report Approval Date: 10/02/2019

Submitted by: _____
Anthony J. Rivers
Test Technician

Reviewed by: _____
Robert J. Menchetti
Director

Revision Summary:

Date	SUMMARY
Approval Date: 10/02/2019	Original issue date. 10/02/2019 Original NGCTS report: NGC 5019078

Report Number: NGC 5019078

Test Method: This test method conforms explicitly with the American Society for Testing and Materials Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements – Designation: E 90 – 09 (2016) / E 413 - 16.

Specimen Description: 6 inch concrete slab floor suspended ceiling assembly overlaid with, according to client, XPR – Parweabro Flooring, with 3-1/2 inches of fiberglass insulation.

The test specimen was a floor assembly and was observed to consist of the following:
All weights and dimension are averaged:

- 1 layer of, according to the client, XPR – Parweabro Flooring. The flooring was adhered to the concrete slab using Locbond 500 adhesive. The adhesive was applied using a 4.76 mm x 4.76 mm x 3.97 mm (3/16 in. x 3/16 in. x 5/32 in.) V notch trowel. Measured thickness: 5.59 mm (0.22 in.), Measured weight: 8.74 kg/m^2 (1.79 PSF)
- 152.4 mm (6 in.) thick reinforced concrete slab, weighing: 366.2 kg/m^2 (75.00 PSF)
- 1 layer of, 88.9 mm (3-1/2 in.) unfaced fiberglass batt insulation, Sample weight: 0.78 kg/m^2 (0.16 PSF)
- Gypsum wallboard ceiling grid suspension system. System is comprised of main tees and cross tees. The main tees were placed 1219.2 mm (48 in.) o.c. and the cross tees were placed 609.6 mm (24 in.) o.c. 16 gauge galvanized tie wire was used to attach the main tees to concrete anchors, located 1219.2 mm (48 in.) o.c. along the longitudinal axis, suspending the grid 304.8 mm (12 in.) below the concrete slab.
- 1 layer of, 15.9 mm (5/8 in.) Type X gypsum wallboard. The wallboard was attached parallel to the suspended grid suspension system mains, using 31.8 mm (1-1/4 in.) Type S drywall screws spaced 304.8 mm (12 in.) o.c. The wallboard joints were taped. Suspended gypsum wallboard grid ceiling weighed: 11.23 kg/m^2 (2.30 PSF)

The overall weight of the test assembly is: 386.90 kg/m^2 (79.25 PSF)

The perimeter of the test frame was sealed with a rubber gasket and a sand filled trough.

The test frame was structurally isolated from the receiving room.

Specimen size: 3657.6 mm x 4876.8 mm (12 ft. x 16 ft.)

Conditioning: Concrete slab cured for a minimum of 28 days. Adhesive cured a minimum of 24 hours.

Test Results: The results of the tests are given on pages 4 and 5 of the report.

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Sound Transmission Loss Test Data

Test: ASTM E 90 - 09 (2016) / ASTM E 413 - 16

Test Report: NGC 5019078 Date: 9/27/2019
Specimen Size [m²]: 17.8

Source room		Receiving room	
Volume [m³]:	86	Volume [m³]:	127
Rm Temp [°C]:	25	Rm Temp [°C]:	23
Humidity [%]:	55	Humidity [%]:	58

Sound Transmission Class STC [dB]: 61

Sum of Unfavorable Deviations [dB]: 32
Max. Unfavorable Deviation [dB]: 7 at 125 Hz

Frequency [Hz]	STL [dB]	L1 [dB]	L2 [dB]	d [dB/s]	Corr. [dB]	u.Dev. [dB]	ΔSTL
80	40	102.5	65.0	27.2	2.4		2.87
100	45	104.1	62.5	25.9	3.4		4.42
125	38	103.6	70.3	18.5	4.8	7	2.32
160	43	106.1	68.3	17.0	5.1	5	1.90
200	50	106.7	62.4	15.0	5.7	1	0.92
250	50	103.1	58.6	15.6	5.4	4	0.87
315	51	101.1	55.7	15.0	5.6	6	1.06
400	54	100.0	50.6	16.9	4.5	6	0.56
500	59	101.1	46.6	17.7	4.4	2	0.65
630	61	101.4	45.2	18.6	4.8	1	0.59
800	64	100.0	40.9	18.8	4.9		0.48
1000	68	97.9	34.9	18.3	5.0		0.35
1250	73	97.5	29.3	19.3	4.7		0.65
1600	74	97.2	27.2	20.8	4.0		0.46
2000	75	99.2	27.1	24.3	2.9		0.68
2500	77	101.1	27.0	27.0	2.9		0.89
3150	79	100.1	24.0	28.7	2.9		1.04
4000	81	97.9	18.6	32.6	1.7		1.47
5000	82	91.0	10.4	37.1	1.5		1.70

STL = Sound Transmission Loss, dB
L1 = Source Room Level, dB
L2 = Receiving Room Level, dB
d = Decay Rate dB/second
Δ STL = Uncertainty for 95% Confidence Level

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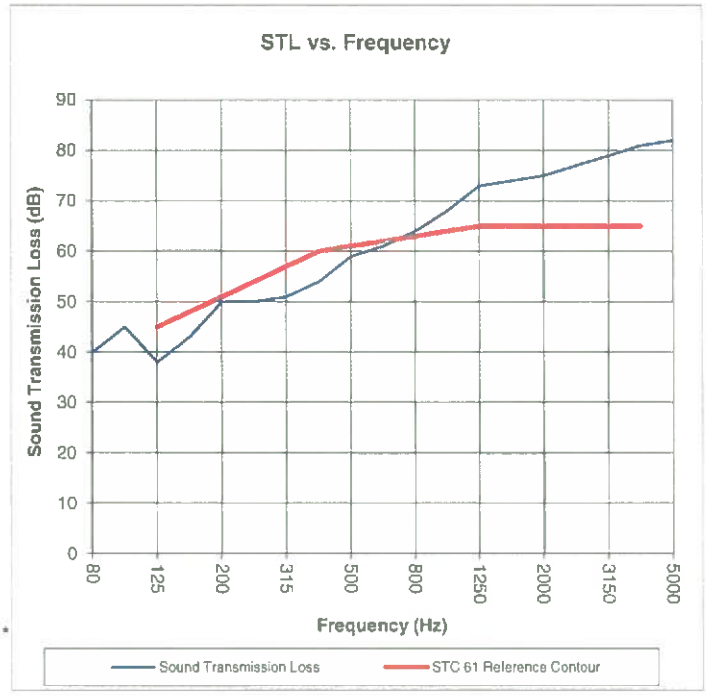
Sound Transmission Loss Test Data

Test: ASTM E 90 - 09 (2016) / ASTM E 413 - 16

Test Report: NGC 5019078
Test Date: 9/27/2019
Specimen Size [m²]: 17.8

Sound Transmission Class STC = 61 dB

Frequency [Hz]	STL [dB]	ΔSTL
80	40	2.87
100	45	4.42
125	38	2.32
160	43	1.90
200	50	0.92
250	50	0.87
315	51	1.06
400	54	0.56
500	59	0.65
630	61	0.59
800	64	0.48
1000	68	0.35
1250	73	0.65
1600	74	0.46
2000	75	0.68
2500	77	0.89
3150	79	1.04
4000	81	1.47
5000	82	1.70



* Due to high insulating value of specimen, background levels limit results at these frequencies.

STL = Sound Transmission Loss, dB
Δ STL = Uncertainty for 95% Confidence Level

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TEST REPORT

for

Parkay Floors
10360 NW 53 St.
Sunrise, FL 33351
Alberto Garcia / 954-726-4515

Impact Sound Transmission Test

ASTM E 492 – 09 (2016) / ASTM E 989 – 18

On

6 Inch (152 mm) Concrete Slab Floor- Ceiling Assembly Overlaid with XPR - Parweabro Flooring

Report Number: NGC 7019102

Assignment Number: G-1628

Test Date: 09/25/2019

Report Date: 10/02/2019

Submitted by: _____
Anthony J. Rivers
Test Technician

Reviewed by: _____
Robert J. Menchetti
Director

Revision Summary:

Date	SUMMARY
Approval Date: 10/02/2019	Original issue date: 10/02/2019 Original NGCTS report: NGC 7019102

Report Number: NGC 7019103 Page 3 of 5

Test Method: This test method is in accordance with American Society for Testing and Materials Standard Test Method for Laboratory Measurement of Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine - Designation: E 492-09 (2016) / E 989-18.

The uncertainty limits of each tapping machine location met the precision requirements of section A1.4 of ASTM E 492-09.

Specimen Description: 6 inch concrete slab floor ceiling assembly overlaid with, according to client, XPR – Parweabro Flooring.

The test specimen was a floor assembly and was observed to consist of the following:
All weights and dimension are averaged:

- 1 layer of, according to the client, XPR – Parweabro Flooring. The flooring was adhered to the concrete slab using Locbond 500 adhesive. The adhesive was applied using a 4.76 mm x 4.76 mm x 3.97 mm (3/16 in. x 3/16 in. x 5/32 in.) V notch trowel. Measured thickness: 5.59 mm (0.22 in.), Measured weight: 8.74 kg/m^2 (1.79 PSF)
- 152.4 mm (6 in.) thick reinforced concrete slab, weighing: 366.2 kg/m^2 (75.00 PSF)

The overall weight of the test assembly is: 374.89 kg/m^2 (76.79 PSF)

The perimeter of the test frame was sealed with a rubber gasket and a sand filled trough.

The test frame was structurally isolated from the receiving room.

Specimen size: 3657.6 mm x 4876.8 mm (12 ft. x 16 ft.)

Conditioning: Concrete slab cured for a minimum of 28 days. Adhesive cured a minimum of 24 hours.

Test Results: The results of the tests are given on pages 4 and 5 of the report.

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Normalized impact sound pressure level

Test: ASTM E 492 - 09 (2016) / ASTM E 989 - 18

Test Report: NGC7019102 Date: 9/25/2019
Specimen Size [m²]: 17.8

Source room
Rm Temp [°C]: 25
Humidity [%]: 55

Receiving room
Volume [m³]: 127
Rm Temp [°C]: 22
Humidity [%]: 57

Impact Insulation Class IIC [dB]: 50
Sum of Unfavorable Deviations [dB]: 29
Max. Unfavorable Deviation [dB]: 8 at 125 Hz

Frequency [Hz]	L_n [dB]	L2 [dB]	d [dB/s]	Corr. [dB]	u.Dev. [dB]	ΔL_n
80	59	60.4	23.26	-1.4		1.48
100	57	58.3	21.53	-1.3		1.98
125	70	71.7	18.26	-1.7	8	2.02
160	67	69.6	15.71	-2.6	5	1.62
200	68	70.7	15.02	-2.7	6	0.65
250	69	71.6	16.03	-2.6	7	1.41
315	63	65.6	16.25	-2.6	1	0.48
400	63	65.0	17.74	-2.0	2	0.33
500	56	57.9	18.16	-1.9		0.41
630	52	53.5	18.71	-1.5		0.45
800	52	54.1	18.97	-2.1		0.42
1000	47	48.6	18.81	-1.6		0.53
1250	42	43.9	20.08	-1.9		0.58
1600	39	40.0	21.61	-1.0		0.78
2000	34	34.5	24.41	-0.5		0.71
2500	27	28.4	26.69	-1.4		0.82
3150	22	23.0	29.34	-1.0		0.96
4000	21	20.6	33.93	0.4		1.02
5000	19	18.2	38.12	0.8		1.12

L_n = Normalized Sound Pressure Level, dB
L2 = Receiving Room Level, dB
d = Decay Rate, dB/second
ΔL_n = Uncertainty for 95% Confidence Level

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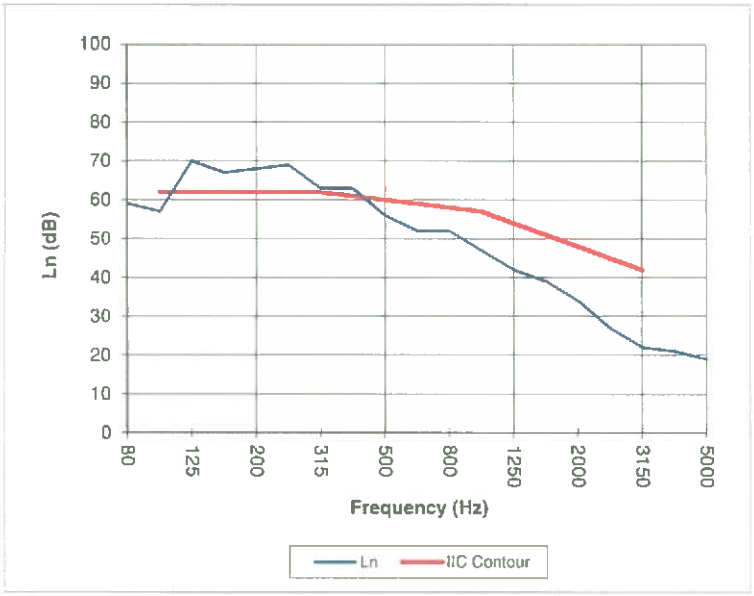
Normalized impact sound pressure level

Test: ASTM E 492 - 09 (2016) / ASTM E 989 - 18

Test Report: NGC7019102
Test Date: 9/25/2019
Specimen Size [m²]: 17.8

Impact Insulation Class IIC [dB]: 50

Frequency [Hz]	L_n [dB]
80	59
100	57
125	70
160	67
200	68
250	69
315	63
400	63
500	56
630	52
800	52
1000	47
1250	42
1600	39
2000	34
2500	27
3150	22
4000	21
5000	19



* Due to high insulating value of specimen, background levels limit results at these frequencies.

L_n = Normalized Sound Pressure Level, dB

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TEST REPORT

for

Parkay Floors
10360 NW 53 St.
Sunrise, FL 33351
Alberto Garcia / 954-726-4515

Impact Sound Transmission Test

ASTM E 492 – 09 (2016) / ASTM E 989 – 18

On

6 Inch (152 mm) Concrete Slab Floor- Ceiling Assembly
Overlaid with XPR - Parweabro Flooring
With a Suspended-Gypsum Board Ceiling
With 3-1/2 Inch Fiberglass Insulation

Report Number: NGC 7019103

Assignment Number: G-1628

Test Date: 09/27/2019

Report Date: 10/02/2019

Submitted by: _____
Anthony J. Rivers
Test Technician

Reviewed by: _____
Robert J. Meichetti
Director

Revision Summary:

Date	SUMMARY
Approval Date: 10/02/2019	Original issue date: 10/02/2019 Original NGCTS report: NGC 7019103

Report Number: NGC 7019103

Test Method: This test method is in accordance with American Society for Testing and Materials Standard Test Method for Laboratory Measurement of Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine - Designation: E 492-09 (2016) / E 989-18.

The uncertainty limits of each tapping machine location met the precision requirements of section A1.4 of ASTM E 492-09.

Specimen Description: 6 inch concrete slab floor suspended ceiling assembly overlaid with, according to client, XPR – Parweabro Flooring, with 3-1/2 inches of fiberglass insulation.

The test specimen was a floor assembly and was observed to consist of the following:
All weights and dimension are averaged:

- 1 layer of, according to the client, XPR – Parweabro Flooring. The flooring was adhered to the concrete slab using Locbond 500 adhesive. The adhesive was applied using a 4.76 mm x 4.76 mm x 3.97 mm (3/16 in. x 3/16 in. x 5/32 in.) V notch trowel. Measured thickness: 5.59 mm (0.22 in.), Measured weight: 8.74 kg/m^2 (1.79 PSF)
- 152.4 mm (6 in.) thick reinforced concrete slab, weighing: 366.2 kg/m^2 (75.00 PSF)
- 1 layer of, 88.9 mm (3-1/2 in.) unfaced fiberglass batt insulation, Sample weight: 0.78 kg/m^2 (0.16 PSF)
- Gypsum wallboard ceiling grid suspension system. System is comprised of main tees and cross tees. The main tees were placed 1219.2 mm (48 in.) o.c. and the cross tees were placed 609.6 mm (24 in.) o.c. 16 gauge galvanized tie wire was used to attach the main tees to concrete anchors, located 1219.2 mm (48 in.) o.c. along the longitudinal axis, suspending the grid 304.8 mm (12 in.) below the concrete slab.
- 1 layer of, 15.9 mm (5/8 in.) Type X gypsum wallboard. The wallboard was attached parallel to the suspended grid suspension system mains, using 31.8 mm (1-1/4 in.) Type S drywall screws spaced 304.8 mm (12 in.) o.c. The wallboard joints were taped. Suspended gypsum wallboard grid ceiling weighed: 11.23 kg/m^2 (2.30 PSF)

The overall weight of the test assembly is: 386.90 kg/m^2 (79.25 PSF)

The perimeter of the test frame was sealed with a rubber gasket and a sand filled trough.

The test frame was structurally isolated from the receiving room.

Specimen size: 3657.6 mm x 4876.8 mm (12 ft. x 16 ft.)

Conditioning: Concrete slab cured for a minimum of 28 days. Adhesive cured a minimum of 24 hours.

Test Results: The results of the tests are given on pages 4 and 5 of the report.

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Normalized impact sound pressure level

Test: ASTM E 492 - 09 (2016) / ASTM E 989 - 18

Test Report: NGC7019103 Date: 9/27/2019
Specimen Size [m²]: 17.8

Source room
Rm Temp [°C]: 25
Humidity [%]: 55

Receiving room
Volume [m³]: 127
Rm Temp [°C]: 23
Humidity [%]: 58

Impact Insulation Class IIC [dB]: 69
Sum of Unfavorable Deviations [dB]: 30
Max. Unfavorable Deviation [dB]: 8 at 125 Hz

Frequency [Hz]	L_n [dB]	L2 [dB]	d [dB/s]	Corr. [dB]	u.Dev. [dB]	ΔL_n
80	55	55.3	28.82	-0.3		2.43
100	50	50.3	25.81	-0.3	7	3.25
125	51	55.3	19.08	-4.3	8	0.90
160	50	52.3	17.87	-2.3	7	0.50
200	49	51.4	15.62	-2.4	6	0.75
250	45	47.8	15.61	-2.8	2	0.59
315	41	44.2	15.57	-3.2		0.47
400	37	40.4	16.50	-3.4		0.34
500	30	33.8	17.84	-3.8		0.36
630	27	31.3	18.10	-4.3		0.31
800	24	27.7	19.02	-3.7		0.45
1000	19	23.0	18.60	-4.0		0.63
1250	16	20.1	19.26	-4.1		1.23
1600	15	18.6	21.05	-3.6		2.27
2000	13	16.2	24.42	-3.2		2.18
2500	11	13.2	26.82	-2.2		1.41
3150	10	11.8	28.64	-1.8		1.22
4000	11	12.5	32.21	-1.5		1.70
5000	10	10.7	36.31	-0.7		1.20

L_n = Normalized Sound Pressure Level, dB
L2 = Receiving Room Level, dB
d = Decay Rate, dB/second
ΔL_n = Uncertainty for 95% Confidence Level

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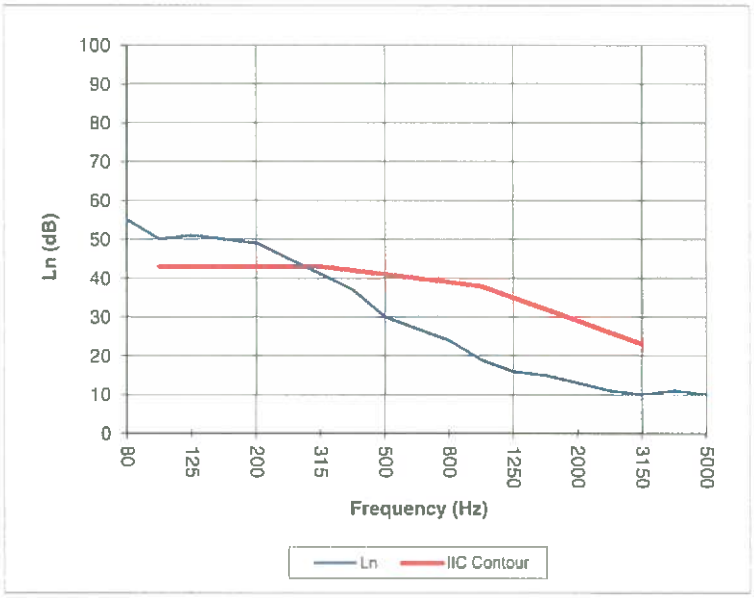
Normalized impact sound pressure level

Test: ASTM E 492 - 09 (2016) / ASTM E 989 - 18

Test Report: NGC7019103
Test Date: 9/27/2019
Specimen Size [m²]: 17.8

Impact Insulation Class IIC [dB]: 69

Frequency [Hz]	L_n [dB]	
80	55	
100	50	
125	51	*
160	50	
200	49	
250	45	
315	41	
400	37	
500	30	*
630	27	*
800	24	*
1000	19	*
1250	16	*
1600	15	*
2000	13	*
2500	11	*
3150	10	*
4000	11	*
5000	10	*



* Due to high insulating value of specimen, background levels limit results at these frequencies.

L_n = Normalized Sound Pressure Level, dB

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TEST REPORT

No. : XMIN180100115CCM
Date : Feb.14, 2018
Page: 1 of 6

CUSTOMER NAME:

ADDRESS:

Sample Name	:	RIGID LVT PLANK
Material	:	Vinyl
Spec.	:	1220*180*5.0
Manufacturer	:	
Sample Information	:	08/01/2018

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

****

Test Required	:	Selected test(s) as requested by applicant
SGS Ref. No.	:	SDHL1801001015FB
Date of Receipt	:	Jan.12, 2018
Testing Start Date	:	Jan.12, 2018
Testing End Date	:	Jan.22, 2018

Test Result Summary

No.	Test(s) Requested	Result(s)
1	CAN/ULC-S102.2-10	FSR:10 SDC:350
For further details, please refer to the following page(s) (Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)		

******** To be continued********

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. XM Branch

Bryan Hong Authorized Signatory

SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch Testing Center Commercial Construction Material Laboratory
No.31 Xianghong Road, Xiang'An Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5765857 f (86-592) 5765380 www.sgsgroup.com.cn
中国•福建•厦门•火炬（翔安）产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com

TEST REPORT

Test Conducted:

CAN/ULC-S102.2-10 Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies.

Sample Preparation:

Prior to testing, the specimen was conditioned to constant weight at a temperature of (23 ± 3℃) and a relative humidity of 50 ± 5%.

The test specimen was placed on the ceramic fibre paper (Ceramic fibre paper with a area density of 0.7kg/m2, shall be laid on the floor of the test chamber beneath the test specimen.).

Test specimen width consisted of a total of 2 sections of material and butted together during testing to form the requisite specimen length.

Test Results:

Sample No.	Calculated Values	
	FSV (Flame spread Value)	SDV (Smoke developed Value)
1	10.7	328
2	11.2	360
3	11.2	364

Classification:

FSR(Flame Spread Rating) :10

SDC (Smoke Developed Classification):350

Remark:

FSR - Calculated the numerical average of the individual Flame Spread Values (FSV), then round the average to the nearest of 5 points. The rounded average is the Flame Spread Rating (FSR)

SDC - Calculated the numerical average of the individual Smoke Developed Values (SDV), then round the average to the nearest of 5 points. The rounded average is the Smoke Developed Classification (SDC)

******** To be continued********

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中国•福建•厦门•火炬（翔安）产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com

Graphical Results:

Sample 1

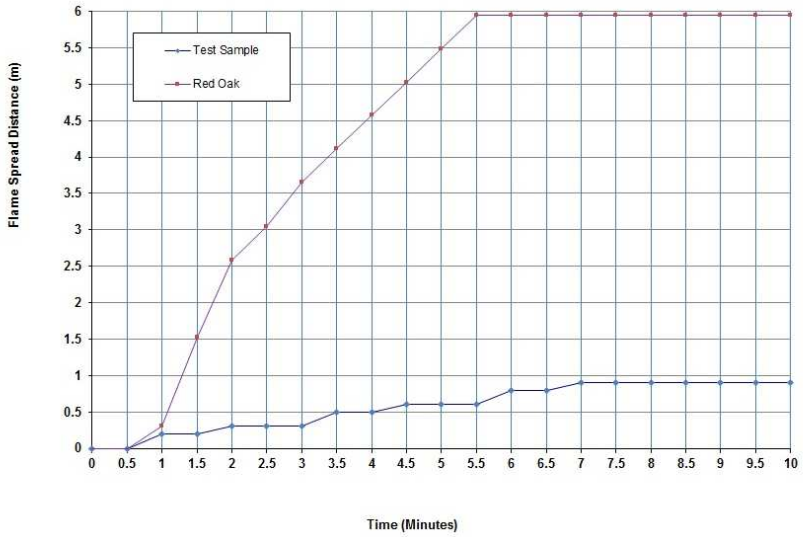

Figure 1. Flame Spread Chart

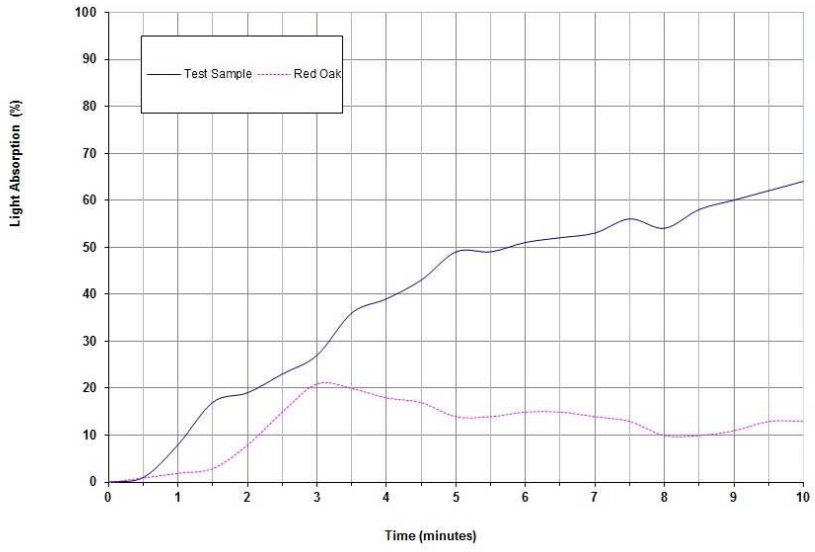

Figure 2. Smoke Developed Chart

******** To be continued********

SGS-CSTC Standards Technical Services Co.,Ltd. Xiamen Branch Testing Center Commercial Construction Material Laboratory

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Graphical Results:

Sample 2

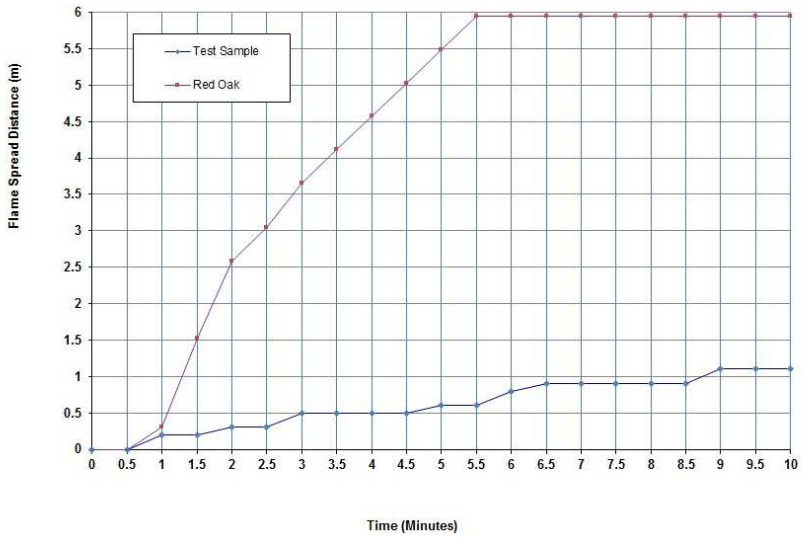

Figure 3. Flame Spread Chart

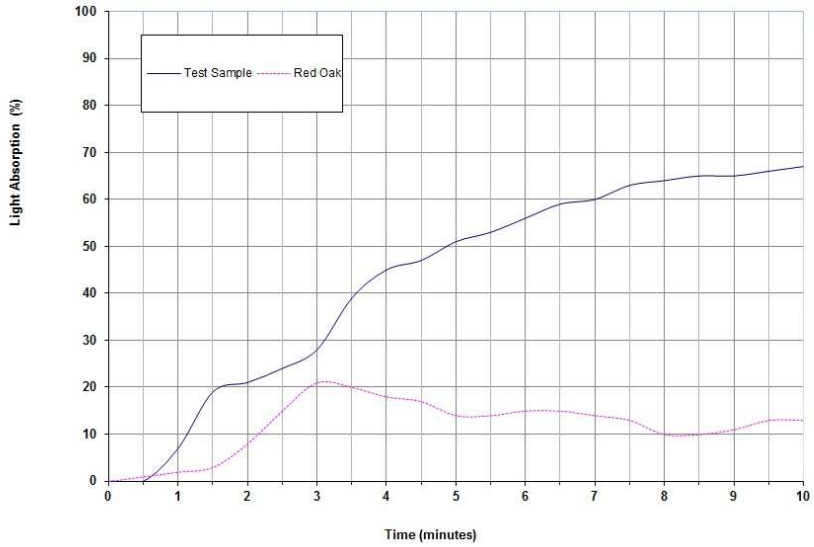

Figure 4. Smoke Developed Chart

******** To be continued********

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Graphical Results:

Sample 3

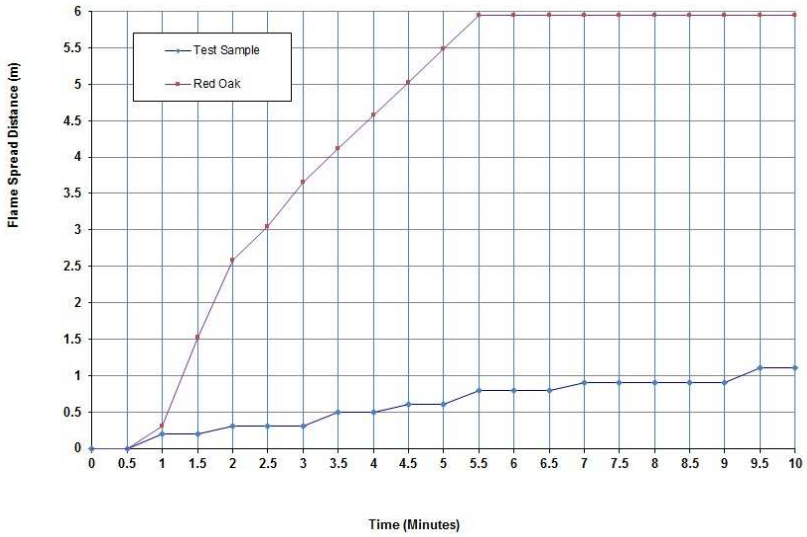

Figure 5. Flame Spread Chart

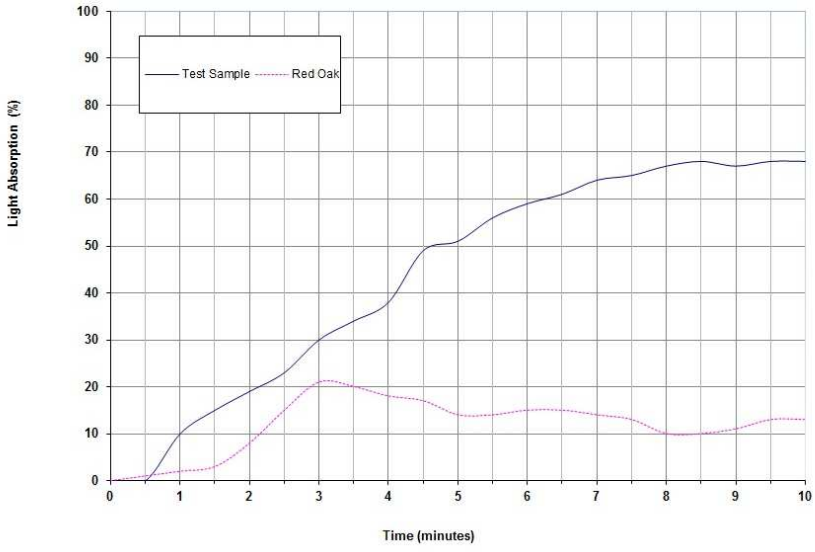

Figure 6. Smoke Developed Chart

Remark: The above test was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch.

******** To be continued********

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Xiamen Branch Testing Center Commercial Construction Material Laboratory

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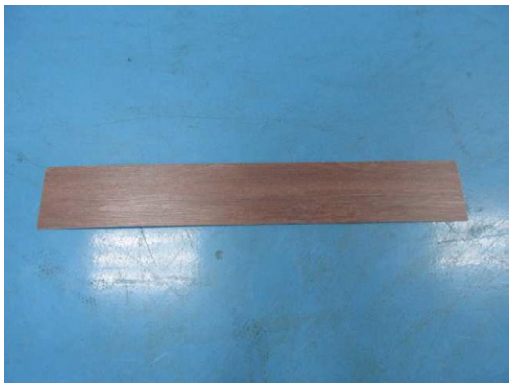
TEST REPORT

No. : XMIN180100115CCM
Date : Feb.14, 2018

SAMPLE INFORMATION AND PICTURES

Thickness: About 5mm
Test face: Sample face

Specimen photographs:



Sample face

Sample back

SGS authenticate the photos on original report only
*******End of report*******

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TEST REPORT

No. : XMIN190200283CCM
Date : Mar.11, 2019

CUSTOMER NAME: MASTER BUILDING PRODUCTS COMPANY
ADDRESS: 10380 NW 53RD STREET, SUNRISE, FL 33351

Sample Name : SPC FLOOR
Material : Vinyl
Spec. : PARKAY XPR COLLECTION

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

****

Test Required : Selected test(s) as requested by applicant
SGS Ref. No. : GZIN1902006577CM
Date of Receipt : Feb.20, 2019
Testing Start Date : Feb.20, 2019
Testing End Date : Mar.01, 2019
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

******** To be continued********

Signed for
SGS-CSTC Standards Technical Services Co. , Ltd Xiamen Branch Testing Center

Civi Huang
Authorized signatory

SGS-CSTC Standards Technical Services Co.,Ltd. Xiamen Branch Testing Center Commercial Construction Material Laboratory

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TEST REPORT

Summary of Results:

No.	Test Item	Test Method	Result
1	Assessment of static electrical propensity	EN 1815:2016 Method A	Voltage: 0.2kV

Original Sample Photo:

Sample

******** To be continued********

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TEST REPORT

Test item: Assessment of static electrical propensity

Sample description: See the photo

Test method: EN 1815:2016 Method A

Test condition:

Condition the test piece and the sandals at a temperature of 23±2℃ and relative humidity of 25±2% for 7days, and maintain these conditions during testing.

With the hand electrode in the hand, walk on the test piece with regular paces at a rate of two steps per second, forwards and backwards but always with the body facing the same direction. At each step, lift the sandals approximately between 50 mm and 80 mm above the test piece. Lift and lower the sandal sole in a plane parallel to the test piece. Cover as much of the test piece as possible and continue walking until the peak voltage ceases to rise, but for not more than 60 s. Take off the sandals while still on the test piece. Perform the test three times.

Test result:

The following body voltages were determined:

Sample No.	1	2	3	Mean value
Voltage, kV (Rubber sole)	0.2	0.2	0.2	0.2

Remark: The above test was carried out by SGS-CSTC Standards Technical Services Co., Ltd. GuangZhou Branch.

******** End of report********

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TEST REPORT

No. : XMIN180300374CCM
Date : Mar.26, 2018

CUSTOMER NAME:		PARKAY FLOORS
ADDRESS:		10360 NW 53RD STREET, SUNRISE, FL 33351
Sample Name	:	RIGID LVT PLANK
Spec.	:	PARKAY XPR COLLECTION
Sample Information	:	26/02/2018

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

****

Test Required	:	Selected test(s) as requested by applicant
Date of Receipt	:	Mar.01, 2018
Testing Start Date	:	Mar.01, 2018
Testing End Date	:	Mar.15, 2018
Test result(s)	:	For further details, please refer to the following page(s) (Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

******** To be continued********

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. XM Branch

Civi Huang Authorized Signatory

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TEST REPORT

Test Conducted:

Refer to ASTM E492-09(2016)$^{\varepsilon 1}$ Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine

ASTM E989-06(2012) Standard Classification for Determination of Impact Insulation Class (IIC)

Test Condition:

Sample Description	:	RIGID LVT PLANK (see the photo) Total Thickness:6.0mm, surface density: about 9.7kg/m^2
Project description	:	No decoration of sample surface, sample installation was assembled directly. The test specimen was covered on a 150mm concrete floor with a drop ceiling, testing area 11.3m^2, the drop ceiling construction showed in appendix2 Drop ceiling: 288mm cavity filled with 50mm glass wool, 12mm gypsum board.
Test method	:	Two adjacent rooms, one the source room directly above the other the receiving room. A standard tapping machine is placed in operation on the flooring system in source room. The average spectrum of the sound pressure levels produced by the tapping machine is measured in the receiving room.
Test Equipment	:	RTA840 system
Test Environment	:	Source room volume 125m^3, receiving room volume 100m^3, air temperature 17.5℃, air humidity 30.8%

Test Result

Test Item	Test Standard	Result
Determination of Impact Sound Insulation Class	ASTM E492-09(2016)$^{\varepsilon 1}$ ASTM E989-06(2012)	**IIC = 66**

******** To be continued********

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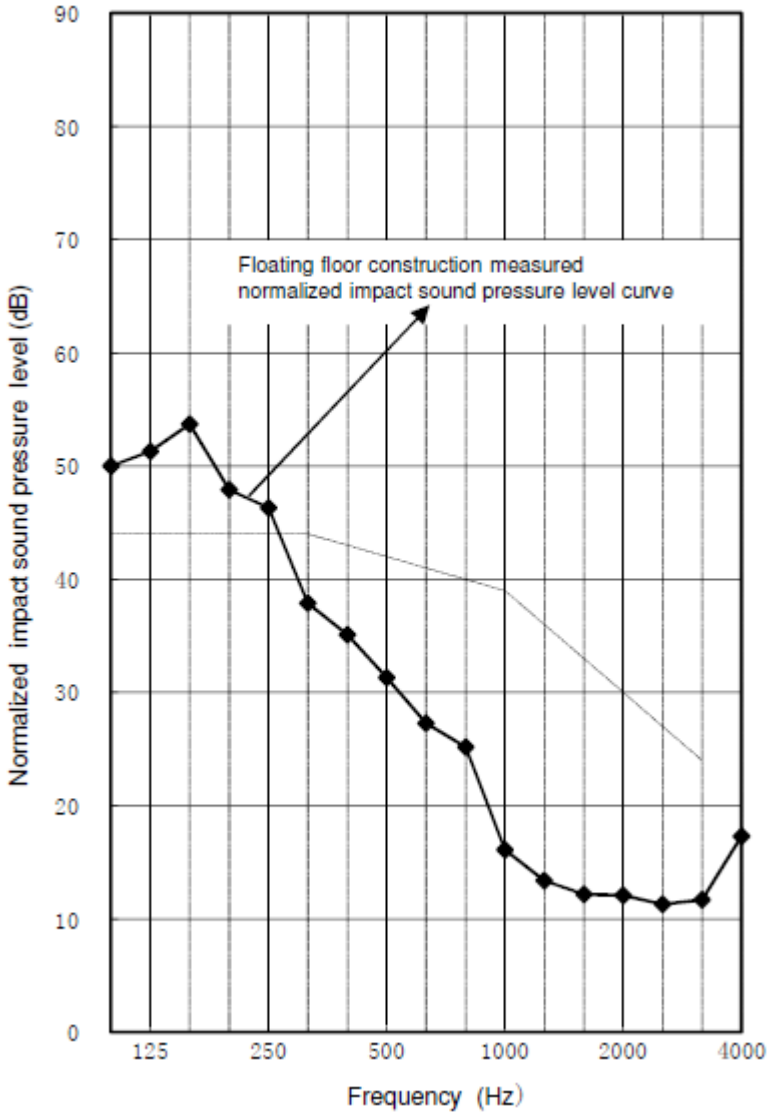
Appendix 1:

f Hz	Ln dB
100 125 160	50.0 51.3 53.7
200 250 315	47.9 46.3 37.9
400 500 630	35.1 31.3 27.3
800 1000 1250	25.2 16.1 13.4
1600 2000 2500	12.2 12.1 11.3
3150 4000	11.7 17.3
IIC	**66**



Remark: L_n as the weighted normalized impact sound pressure level

******** To be continued********

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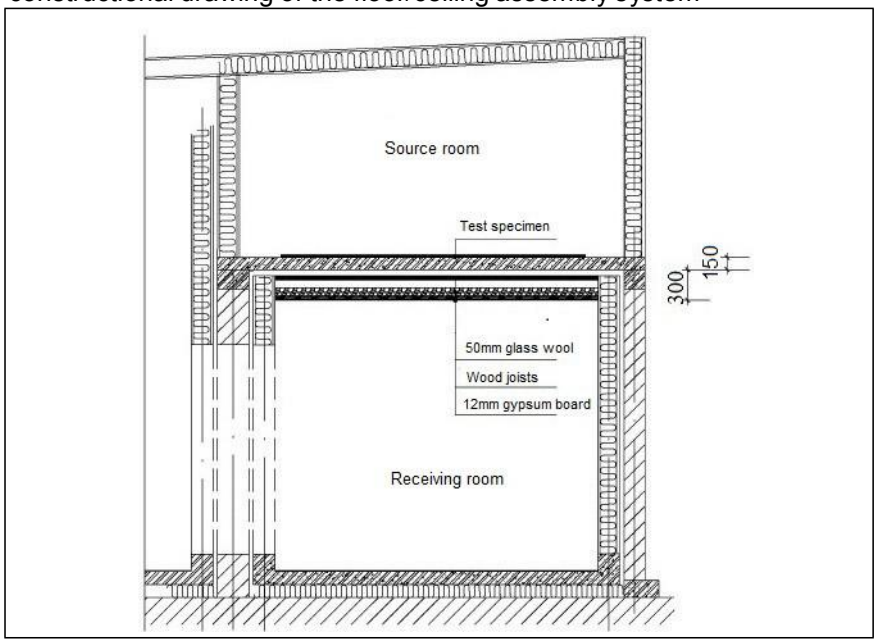
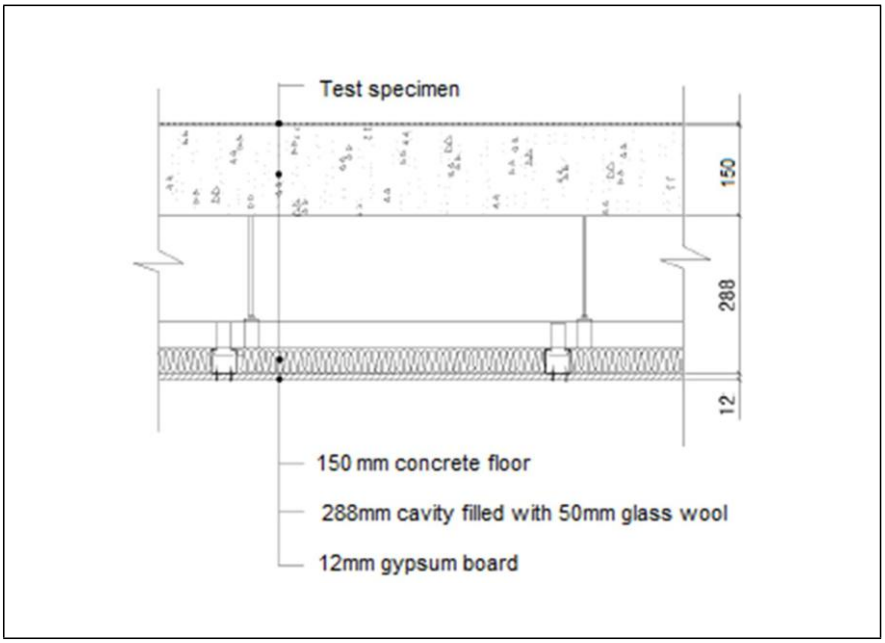
Appendix 2: The constructional drawing of the floor/ceiling assembly system



Schematic diagram:



Note: The above test was carried out by Center for Building Environment Test, Tsinghua University.

******** To be continued********

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TEST REPORT

No. : XMIN180300374CCM

Date : Mar.26, 2018

Photo Appendix:

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TEST REPORT

No. : XMIN180300375CCM
Date : Mar.26, 2018
Page: 1 of 5

CUSTOMER NAME: PARKAY FLOORS
ADDRESS: 10360 NW 53RD STREET, SUNRISE, FL 33351

Sample Name	:	RIGID LVT PLANK
Spec.	:	PARKAY XPR COLLECTION
Sample Information	:	26/02/2018

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

****

Test Required	:	Selected test(s) as requested by applicant
Date of Receipt	:	Mar.01, 2018
Testing Start Date	:	Mar.01, 2018
Testing End Date	:	Mar.15, 2018
Test result(s)	:	For further details, please refer to the following page(s) (Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

******** To be continued********

Signed for
SGS-CSTC Standards Technical Services Co., Ltd. XM Branch

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TEST REPORT

Test Conducted:

Refer to ASTM E90-09(2016) Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

ASTM E413-16 Classification for Rating Sound Insulation

Test Condition:

Sample Description	:	RIGID LVT PLANK (see the photo) Total Thickness:6.0mm, surface density: about 9.7kg/m^2
Project description	:	No decoration of sample surface, sample installation was assembled directly. The test specimen was covered on a 150mm concrete floor with a drop ceiling, testing area 11.3m^2, the drop ceiling construction showed in appendix2 Drop ceiling: 288mm cavity filled with 50mm glass wool, 12mm gypsum board.
Test method	:	Two adjacent rooms, one the source room directly above the other the receiving room. Taken the only significant sound transmission path between rooms is by way of the test partition. An approximately diffuse sound field is produced in the source room. Sound incident on the test partition causes it to vibrate and create a sound field in the receiving room.
Test Equipment	:	RTA840 system
Test Environment	:	Source room volume 125m^3, receiving room volume 100m^3, air temperature 17.5℃, air humidity 30.8%

Test Result

Test Item	Test Standard	Result
Airborne sound transmission loss test and class	ASTM E90-09(2016) ASTM E413-16	**STC = 68**

******** To be continued********

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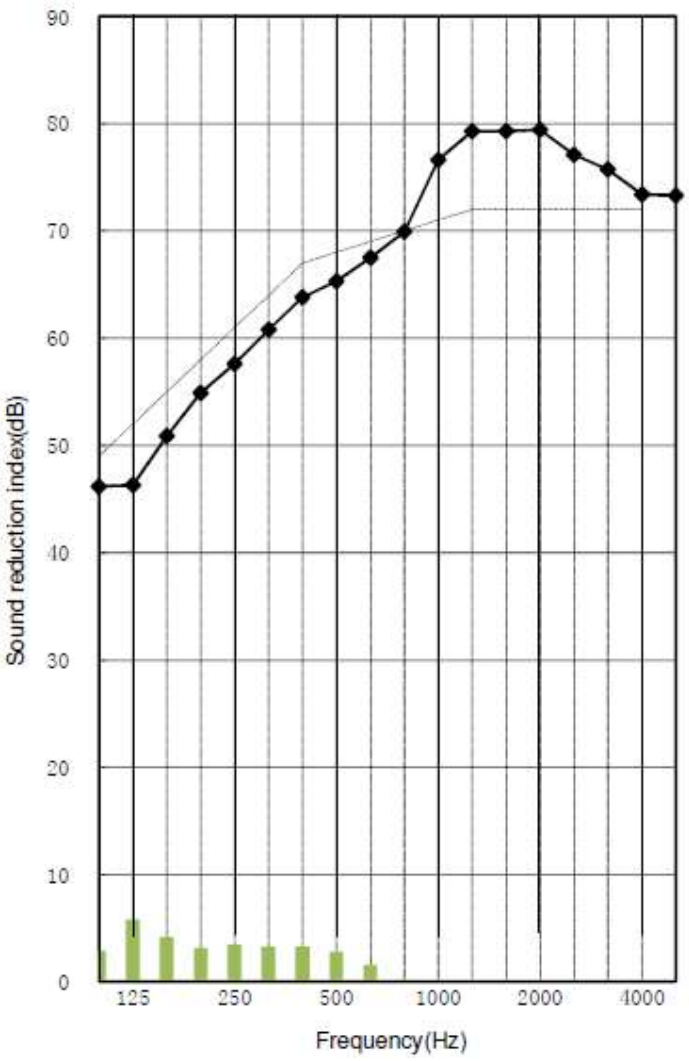
TEST REPORT

Appendix 1:

f Hz	TL dB
100 125 160	46.2 46.3 50.9
200 250 315	54.9 57.6 60.8
400 500 630	63.8 65.3 67.5
800 1000 1250	69.9 76.6 79.3
1600 2000 2500	79.3 79.4 77.1
3150 4000 5000	75.7 73.4 73.3
STC	**68**



Remark: TL is the transmission loss.

******** To be continued********

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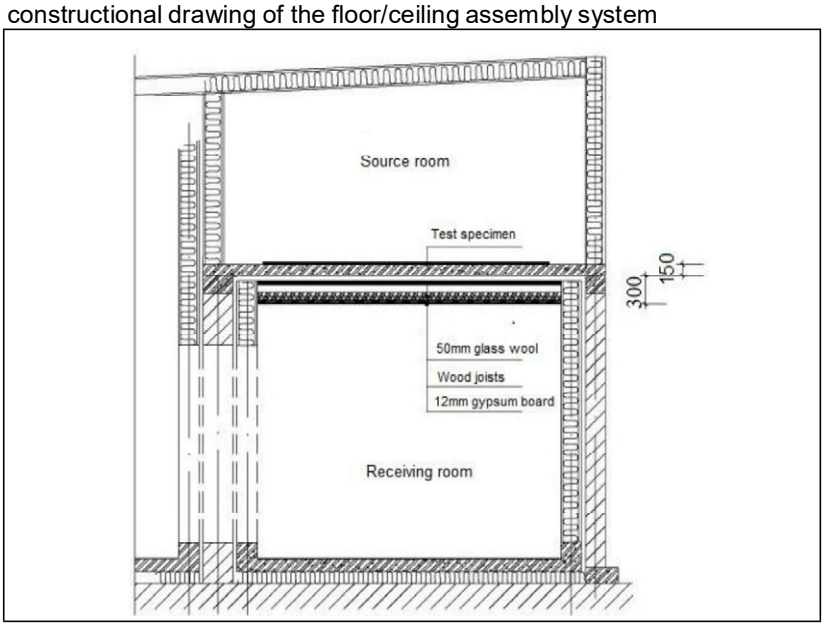
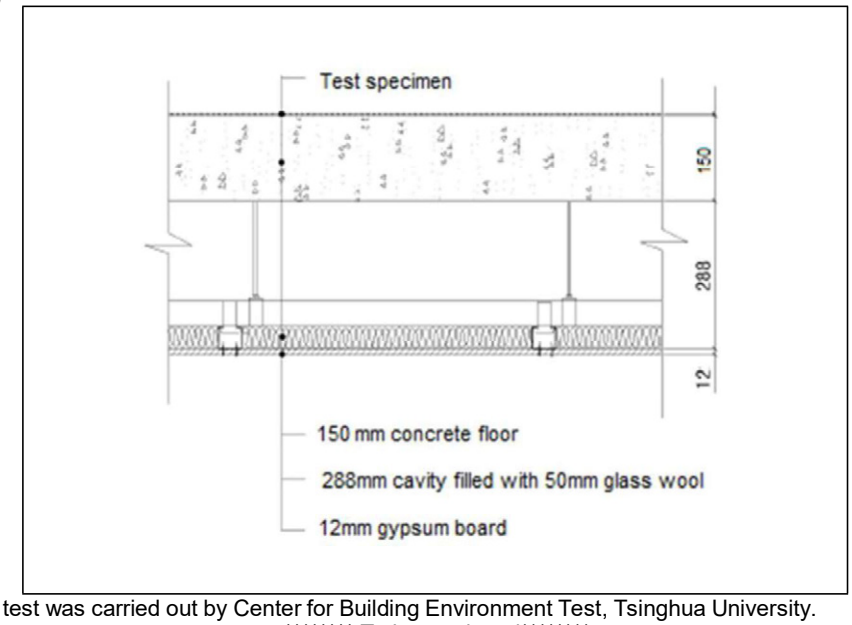
Appendix 2: The constructional drawing of the floor/ceiling assembly system



Schematic diagram:



Note: The above test was carried out by Center for Building Environment Test, Tsinghua University.

******** To be continued********

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TEST REPORT

No. : XMIN180300375CCM

Date : Mar.26, 2018

Photo Appendix:

SGS authenticate the photo on original report only

*******End of report********

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TEST REPORT
EN 14041+AC
Resilient, textile and laminate floor covering — Essential Characteristics

Report Reference No..... :	170510110GZU-001
Tested by (name and signature)..... :	Kelming Wang
Approved by (name and signature).. :	Jeff Deng
Date of issue..... :	July 14, 2017
Contents..... :	Total test report 14 pages including:
	Report text: 5 pages.
	Appendix A for copy of test report (Issued by: NB 1023): 6 pages.
	Appendix B for ISO 9001 certificate: 1 page
	Appendix C for Product photos: 1 page
	Appendix D for Revision page: 1 page
Testing Laboratory name ..... :	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Address..... :	No. 9 Nan Xiang San Road, GETDD, Guangzhou, China
Testing location..... :	Same as above and Notified Body No. 1023
Applicant's name..... :	
Address..... :	
Test specification:	
Standard..... :	EN 14041: 2004+AC: 2006
Non-standard test method..... :	N/A
Test Report Form No..... :	TTRF EN 14041: 2004 C
TTRF Originator..... :	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Master TTRF..... :	Dated 2013-01
Test item description..... :	PVC floor covering-Diamond, Rigid LVT
Model and/or type reference..... :	Diamond, Rigid LVT 5.0mm
Manufacturer..... :	
Rating(s)..... :	Reaction to fire: Class B_{fl-s1}
	Release of formaldehyde: Class E1

Copy of marking plate:

Marking on accompanied document :

CE

17
XXXXX-CPR-2017/07/14

EN 14041:2004 +AC:2006
PVC floor covering-Diamond,Rigid LVT
Reaction to fire: Class B_{fl} -$_{S1}$
Nominal size: 1220x180x5.0mm
Formaldehyde: Class E1
Slipperiness: Class DS

Note:
1. If the CE marking is reduced or enlarged the proportions given in the above graduated drawing must be respected.
2. The various components of the CE marking must have substantially the same vertical dimension, which may not be less than 5 mm.
3. CE marking and label shall be affixed visibly, legibly and indelibly.
4. “XXXXX-CPR-2017/07/14” should be the reference number of the DoP.

Summary of testing:

The submitted samples were tested and found to comply with applicable requirements of EN 14041: 2004+AC: 2006.

Test item particulars	
Classification of installation and use ..... :	Floated (no adhesive)
Possible test case verdicts:	
- test case does not apply to the test object ..... :	N/A
- test object does meet the requirement ..... :	P(Pass)
- test object does not meet the requirement ..... :	F(Fail)
Testing	
Date of receipt of test item ..... :	May 10, 2017
Date (s) of performance of tests ..... :	May 10, 2017 to July 14, 2017

General remarks:

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 the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

"(See remark #)" refers to a remark appended to the report.
"(See Appendix #)" refers to an appendix appended to the report.
Throughout this report a comma (point) is used as the decimal separator.

When determining the test result, measurement uncertainty has been considered.

The clause which indicated with * is the subcontract test item.

General product information:

Submitted samples are PVC floor covering-Diamond,Rigid LVT, thickness: 5mm, refer to below product information:

Model no.: Diamond, Rigid LVT 5.0mm
Top film(wear layer):0.5mm PVC
Base layer:3.85mm PVC
Balance layer:0.65mm PVC
Compound: Calcium carbonate, PVC powder, colorant(carbon black),stabilizing agent
Form of floor covering: tile; work size: 1220*180*5.0 mm
Way of the product laying: floated (no adhesive)

Release of formaldehyde, Reaction to fire (Class B_{fl}) test conducted by Notified Body Lab No.1023. INSTITUTE FOR TESTING AND CERTIFICATION, Inc. Refer to report No. 75 35 01489/2017 for detail.
See Appendix C for products' appearance.

EN 14041+AC			
Clause	Requirement - Test	Result - Remark	Verdict
4	REQUIREMENTS		—
4.1	*Reaction to fire When declared, the floor covering shall be tested and classified according to the requirement of EN 13501-1 and resulting class and subclass shall be declared …. ……..: If it is decided to make no claim for reaction for fire performance, which marked Class F, no testing is required ……...: If the product listed in Table 1, 2 or 3, in the end uses identified in the tables, are classified without further testing in the classes shown and do not require testing in respect of these end uses and classes ……..:	Class B_{fl-S1} Refer to report No. 75 35 01489/2017 for detail	P
4.2	Content of pentachlorophenol (PCP) Resilient, textile and laminate floor coverings shall not contain PCP or derivative thereof as a component in the production process of the product or of its raw materials ……...:	PVC floor covering Not applicable.	N/A
4.3	*Formaldehyde emission When formaldehyde-containing materials have been added to the product as a part of the production process, the product shall be tested and classified in to one of two classes: E1 or E2 ……...:	Class E1 Refer to report No. 75 35 01489/2017 for detail.	P
4.4	Water-tightness Where required, resilient floor coverings shall meet the requirement of EN 13553……..:	Not claimed	—
4.5	Slip resistance When declared, the floor covering intended to be used in dry and non-contaminated conditions shall have a dynamic coefficient of friction of ≥ 0,30 when tested ex-factory under dry conditions per EN 13893 and shall be declared as technical class DS……. ….:	Dynamic coefficient of friction: 0.36 Class DS	P
4.6	Electrical behaviour (static electricity) When declared, antistatic floor coverings body voltage shall not exceed 2,0 kV per EN 1815 ……..: When declared, static dissipative floor coverings vertical resistance shall not exceed $10^9\Omega$ per EN 1081…….: When declared, conductive floor coverings vertical resistance shall not exceed $10^6\Omega$ per EN 1081…. ….:	Not claimed	—

EN 14041+AC			
Clause	Requirement - Test	Result - Remark	Verdict
4.7	*Thermal conductivity If required, the thermal conductivity values shall be verify per EN 12524 or EN 12667……..:	0.151 W/m•K by test	—
5	EVALUATION OF CONFORMITY		—
5.1	General ……..:	Refer to 5.3	P
5.2	Type testing ……..:	Refer to Clause 4.1 to 4.7	P
5.3	Factory production control ……..:	The manufacturer claimed compliance with the FPC requirements by operating an ISO 9001 system and holds valid ISO9001 certificate.	P
6	MARKING		—
	Product which conform to the requirements of this document shall be clearly and indelibly marked by the manufacturer either on their package or on an adhesive label with following information: a) the number and the year of this European Standard b) the manufacturer's or supplier's identification c) the product name and batch number	See 'Copy of marking plate'.	P

**********End of page**********

Appendix A
Copy of Test Report (Issued by: NB 1023)

Reference No. 75 35 01489
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INSTITUTE FOR TESTING AND CERTIFICATION
třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

TEST REPORT

Reference No. 75 35 01489/ 2017

Product: **Heterogeneous PVC floor covering, type: Diamond 5.0**

Elaborated by: Milan Kovář

Issued on: 22nd June 2017

RNDr. Radomir Čevelík
Representative of Notified Body No. 1023

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e-mail:itc@itczlin.cz
www.itczlin.cz

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Appendix A (continued)
Copy of Test Report (Issued by: NB 1023)

INSTITUTE FOR TESTING AND CERTIFICATION
Notified Body 1023
763 02 Zlín, Czech Republic

Notified Body No. 1023 * State Authorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory

1. Introduction

This report was elaborated on the basis of the application *No. 753501489, registered on 12/05/2017* and tests results carried out by the notified testing laboratory in accordance with the procedure mentioned in the article 1.4 of the Annex V to the Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011, as amended, laying down harmonised conditions for the marketing of construction products („CPR").

2. Assessment and verification of constancy of performance according to Regulation (EU) No 305/2011 of the European Parliament and of the Council, as amended

Floor coverings as construction products are assessed on the basis of relevant clauses of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9th March 2011 laying down harmonised conditions for marketing of construction products and repealing Council Directive 89/106/EEC as amended (called „CPR")

2.1 System of assessment and verification of constancy of performance (AVCP)

The submitted product is assessed pursuant to system of AVCP 3 of the CPR (Annex V).

The type testing was carried out according to Annex ZA of the standard ČSN EN 14041 (EN 14041:2004/AC:2006).

2.2 Indicators specifying basic requirements for construction works

The initial type testing was carried out by the notified body (the notified test laboratory) in the following range of relevant properties according to Table ZA.4 (of the ČSN EN 14041):

- Reaction to fire
  - ignitability – surface exposure according to ČSN EN ISO 11925-2 (exposure time: 15s)
  - burning behaviour using a radiant heat source according to ČSN EN ISO 9239-1 /test samples were not glued to the standard substrate/
  - classification according to ČSN EN 13501-1+A1
- Formaldehyde emission according to ČSN EN 717-1

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Appendix A (continued)
Copy of Test Report (Issued by: NB 1023)

INSTITUTE FOR TESTING AND CERTIFICATION
Notified Body 1023
763 02 Zlín, Czech Republic

Notified Body No. 1023 * State Authorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory

2.3 Product specification

PVC heterogeneous floor covering tiles.
Dimensions: 1220 mm x 180 mm x 5.0 mm
Composition:

- Wear layer: 0.5 mm (PVC)
- Base layer: 3.85 mm (PVC)
- Balance layer: 0.65 mm (PVC)

Total thickness (wear layer thickness): 5.0 mm (0.5 mm)
Laying way: click, loose (no adhesive)

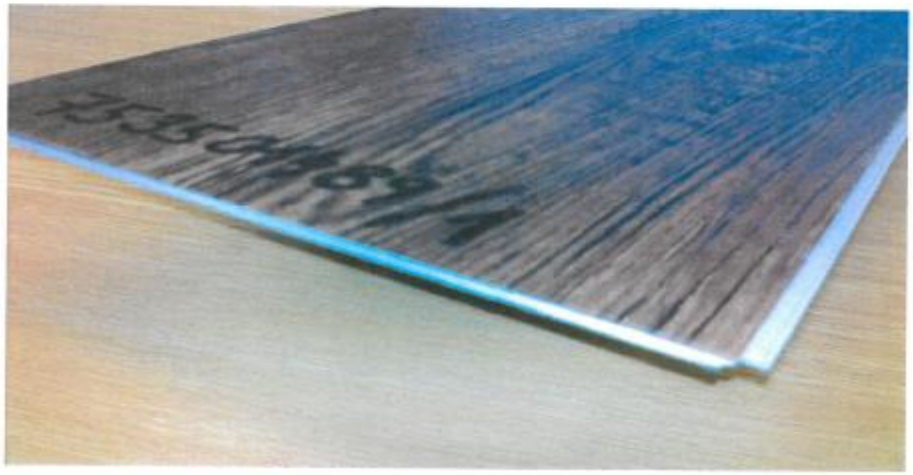
2.4 Sampling place and number of samples taken

The test samples were sent by the manufacturer. The number of the test samples sent was as follows:

- PVC heterogeneous floor covering tiles, type: Diamond 5.0 mm in the amount of 56 pcs tiles, 1 pc (approx. 0.5 x 0.5) m, packed into foil, 1 pc of (approx.185 x 1000) mm

The test samples were registered under the registration number 75 35 01489/1 on 23/05/2017.

Sample photo:



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Appendix A (continued)
Copy of Test Report (Issued by: NB 1023)

INSTITUTE FOR TESTING AND CERTIFICATION
Notified Body 1023
763 02 Zlín, Czech Republic

Notified Body No. 1023 * State Authorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory

2.5 Place and date of testing

- Institut pro testování a certifikaci (ITC), a.s., NB 1023, accredited laboratory No. 1004 Zlín (June 2017)
- Centrum stavebního inženýrství (CSI), a.s. Prague, Fire Technical Laboratory, Accredited test laboratory No.1007.4, NB 1390 (June 2017)
- Výzkumný a vývojový ústav dřevařský, Praha, s.p., NB 1393, accredited laboratory No. 1031, Prague (May 2017)

2.6 Test results

2.6.1 Ignitability results

Table 1 – Ignitability test results

Characteristic	Surface exposure test – lengthwise direction (characteristic for individual test specimens)	Surface exposure test – crosswise direction (characteristic for individual test specimens)
Ignition of the test specimen Yes/No	No, No, No, No, No	No, No, No, No, No
Flame reaching of a mark in distance of 150 mm Yes/No	No, No, No, No, No	No, No, No, No, No
Burning time to reach 150 mm (s)	-, -, -, -, -	-, -, -, -, -
Ignition of the filter paper	No, No, No, No, No	No, No, No, No, No

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Appendix A (continued)
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INSTITUTE FOR TESTING AND CERTIFICATION
Notified Body 1023
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2.6.2 Results of burning behaviour using a radiant heat source

Table 2 - Results of burning behaviour using a radiant heat source

Characteristic	Measuring unit	Crosswise direction measurement	Lengthwise direction measurement (mean value)
Maximum distance of flame spread	mm	190	206.7
Critical heat flux (CHF)	kW/m^2	9.3	**9.0**
Distance of flame spread at 10th min.	mm	180	206.7
HF-10	kW/m^2	9.5	9.0
Distance of flame spread at 20th min.	mm	(-)	(-)
HF-20	kW/m^2	(-)	(-)
Distance of flame spread at 30th min.	mm	(-)	(-)
HF-30	kW/m^2	(-)	(-)
Maximum light attenuation	%	56.9	60.3
Integrated smoke value	% x min	213.7	**243.4**

2.6.3 Results of the reaction to fire classification

Table 3 – Reaction to fire classification

Product	Reaction to fire class	Additional class for smoke production	Final class
Heterogeneous PVC floor covering, type: Diamond 5.0	B_{fl}	s1	**B_{fl} – s1**

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Appendix A (continued)
Copy of Test Report (Issued by: NB 1023)

INSTITUTE FOR TESTING AND CERTIFICATION
Notified Body 1023
763 02 Zlín, Czech Republic

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2.6.4 Formaldehyde emission result

Table 4 – Results of the formaldehyde emission

Product	Measuring unit	Test result (class)
Heterogeneous PVC floor covering, type: Diamond 5.0	$mg.m^{-3}$	0.005 (E1)

Notified Body NB 1023 has carried out the testing in accordance with the paragraph 1.4 of Annex V to the Regulation (EU) No 305/2011, as amended for the product specified in the Art. 2.3 of this Report **and concluded that**
all requirements of this paragraph of the above Regulation and the relevant harmonized standard have been met and this report may be issued as a basis for affixing CE marking to these products.

This Report is applicable only to products identically marked and named, such as those which were the subject to testing, provided that the products characteristics have not been changed or no significant changes in their production (materials, technology, manufacturing equipment, etc.) have been done.

3. List of documents used to elaborate the Test Report

- Application No. 753501489 for assessment of CE-marked construction products
- ČSN EN 14041 (91 7883): Pružné textilní a laminátové podlahové krytiny – Podstatné vlastnosti (Resilient, textile and laminate floor coverings – Essential characteristics)
- Test Report of accredited laboratory, reference No. 753501489/01, elaborated by ITC a.s., accredited laboratory No. 1004, in Zlín, on 12/06/2017
- Test Report, reference No. 17/440/P341, elaborated by Centrum stavebního inženýrství a.s., Fire Technical Laboratory, Prague, on 22/06/2017
- Test Report, reference No. MVZ-A-2017-000111, elaborated by Výzkumný a vývojový ústav dřevařský, Praha, s.p., accredited laboratory No. 1031, Prague, on 05/06/2017
- Classification Report using Results of Reaction to Fire No. 75 35 01489K/2017, elaborated by ITC, a.s. Zlín, on 22/06/2017

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Appendix B

ISO 9001 certificate

QUALITY MANAGEMENT SYSTEM

CERTIFICATE

Certificate No.: 00116Q29995R3M/3200

We hereby certify that

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Unified Social Credit Code/ Organization Code certificate: 91320412779661071 6

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

by reason of its

Quality Management System

has been awarded this certificate for compliance with the standard

ISO9001: 2008 GB/T 19001-2008

The Quality Management System Applies in the following area:

Production of Laminate Flooring, Vinyl Flooring

Certified since: November 5, 2007 Valid from: October 27, 2016 Valid until: October 31, 2019

After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.
Please access www.cqc.com.cn for checking validity of the certificate.
This certificate and its relevant information can query in the website of Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn).
(The validity of the ISO9001:2008 certificates expires on 15/09/2018. Please transfer to new edition certificates before that time.)

IAF CNAS 中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C001-M IQNet

Signed by: Wang Kejiao

CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070,China
http://www.cqc.com.cn

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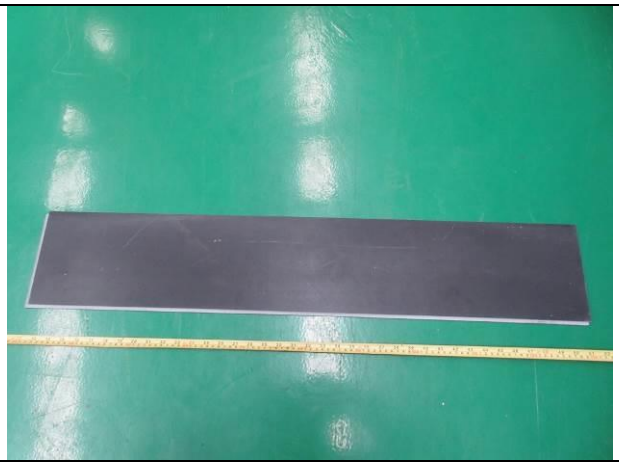
Appendix C

Products photos

<table>
<tr><td>  </td><td>  </td></tr>
<tr><td>C.1 Surface view of sample</td><td>C.2 Back view of sample</td></tr>
<tr><td>  </td><td rowspan="2">Blank</td></tr>
<tr><td>C.3 Section view of sample</td></tr>
</table>

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Appendix D

Revision page

Revision No.	Date	Changes	Author	Reviewer
0	July 14, 2017	First issue	Kelming Wang	Jeff Deng

**********End of report**********

PARKAY FLOORS

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