



TEST REPORT

REPORT NUMBER: 160803008SHF-BP-1

ORIGINAL ISSUE DATE: 2016-9-13

EVALUATION CENTER

Intertek Testing Services Ltd., Shanghai
Plant 7, No. 6958 Daye Road, Fengxian District, Shanghai, China

RENDERED TO

PRODUCT EVALUATED

Luxury Vinyl

EVALUATION PROPERTY

As requested by the applicant, for details refer to attached pages(s).

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Report Template Revision Date: 2016/9/1



Test Report

Report Number: 160803008SHF-BP-1

Report Date: 2016-09-13

Applicant:

Applicant Address:

Sample information

Product: Luxury Vinyl
Trade Mark: —
Model and/or type reference: Virgin Material
Sample Description: Average density: 1900 kg/m³, Overall thickness: 1.5-5mm, Thickness of wear layer: 0.12-0.55mm and the way of laying: by click, loose(without glue)
Manufacturer:
Rating(s): Reaction to fire Class B_{fl-s1}, Formaldehyde emission Class E1
Classification of installation and use: —
Sample ID: S160803008SHF-001
Date of receipt of test item: July 29, 2016
Date (s) of performance of tests: August 3, 2016 to September 13, 2016

The Information of Sample: The 5mm thickness samples were arrived on October 28, 2015 and were tested for Reaction to fire, Content of pentachlorophenol, Formaldehyde emission, Slip resistance and Thermal conductivity; The 3mm thickness samples were arrived on April 7, 2016 and were tested for Reaction to fire and Slip resistance; The 1.5mm thickness samples were arrived on July 29, 2016 and were tested for Reaction to fire and Slip resistance.

Testing information

Standard: EN 14041:2004/AC:2006
Non-standard test method: N/A
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)

The submitted samples were tested in accordance with specified standards, and listed the result accordingly, refer to text for detail.

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EN 14041:2004 Resilient, textile and laminate floor coverings-Essential Characteristics			
Clause	Requirement - Test	Result - Remark	Verdict
4	Requirements		
4.1	<p>Reaction to fire</p> <p>The floor covering shall be tested and classified according to the requirements of EN 13501-1 and the resulting class and subclass (as appropriate to the class itself) shall be declared.</p>	<p>Overall thickness: 5mm¹ Reaction to fire class B_{fl-s1}</p> <p>Overall thickness: 3mm² Reaction to fire class B_{fl-s1}</p> <p>Overall thickness: 1.5mm³ Reaction to fire class B_{fl-s1} Refer to test report in Appendix B (Issue by NB No. 1023)</p>	P
4.2	<p>Content of pentachlorophenol</p> <p>Resilient, textile and laminate floor coverings shall not contain PCP or a derivative thereof as a component in the production process of the product or of its raw materials. In cases where verification is required, if the content is less than 5 ppm in the parts of the product affected by treatment, this requirement shall be considered to be met.</p>	<p>Overall thickness: 5mm¹ <0.5 ppm</p>	P
4.3	<p>Formaldehyde emission</p> <p>When formaldehyde-containing materials have been added to the product as a part of the production process, the product shall be tested and classified into one of two classes: E1 or E2.</p>	<p>Overall thickness: 5mm¹ Class E1 Refer to test report in Appendix C (Issue by NB No. 1023)</p>	P
4.5	<p>Slip resistance</p> <p>If a claim for slip resistance is made, the floor covering intended to be used in dry and non-contaminated conditions shall have a dynamic coefficient of friction of $\geq 0,30$ when tested ex-factory under dry conditions in accordance with EN 13893 and shall be declared as technical class DS.</p>	<p>Class DS</p> <p>Overall thickness: 5mm¹ Dynamic coefficient of friction: 0.45</p> <p>Overall thickness: 3mm² Dynamic coefficient of friction: 0.47</p> <p>Overall thickness: 1.5mm³ Dynamic coefficient of friction: 0.41</p>	P

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EN 14041:2004 Resilient, textile and laminate floor coverings-Essential Characteristics			
Clause	Requirement - Test	Result - Remark	Verdict
4.7	Thermal conductivity When floor coverings are to be installed over an under-floor heating system the design thermal conductivity values given in EN 12524 shall be assumed for design calculation purposes. Alternatively, the thermal resistance measured in accordance with EN 12667 may be used.	Overall thickness: 5mm ¹ Mean temperature: 25°C Temperature difference: 13°C Thermal conductivity: 0.145 W/(m•K) Thermal resistance: 0.034 (m ² •K)/W Mean thickness measured by equipment: 4.96mm	N/A
5	Evaluation of conformity		
5.1	General The conformity of the component with the requirements of this standard shall be demonstrated by: Clause 5.2 and 5.3		
5.2	Initial type testing or assessment Shall be performed to demonstrate conformity with this standard or be demonstrated according to information given in this standard.	Refer to clause 4.1, 4.2, 4.3, 4.5 and 4.7	P
5.3	Factory production control The producer shall maintain, establish, document and have a production control system to ensure that the products placed on the market conform to that stated performance characteristics.	The manufacture has established a Quality management system according to EN ISO 9001. See Appendix A	P
6	Marking, labelling and packaging		
	Marking and labeling 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 Appendix C 'Copy of marking plate'	P

Note:

1. Detail information was referred to Report 151019004SHF-BP-1, issued on December 22, 2015. The 5mm thickness Luxury Vinyl test samples were arrived on October 28, 2015.
2. Detail information was referred to Report 160420008SHF-BP-1, issued on June 16, 2016. The 3mm thickness Luxury Vinyl test samples were arrived on April 7, 2016.
3. The 1.5mm thickness Luxury Vinyl test samples were arrived on July 29, 2016.

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Appendix A: ISO 9001 Certificate



Certificate of Approval

Certificate No. : 10115Q13930ROM

Awarded to

ISO 9001

Beijing Zhonglian TianRun Certification Center(ZLTR) certify that the Quality Management System of the above organization has been assessed and found to be in accordance with the requirements of the standard:

ISO9001: 2008

ISO 9001

SCOPE OF CERTIFICATION/REGISTRATION

Production license within the scope of Solid Wood Flooring、 Engineered Wood Flooring、 Laminate Flooring

Subject to operation conditions in requirements conformity with Quality Management System,
This Certificate is valid for a period of three years only.
Date from: Jul 4th, 2015 To: Jul 3rd, 2018

The effectiveness of this Certificate shall be Validated by periodic surveillance audit of ZLTR for maintenance. This Certificate will not be in force unless qualified identification is stuck there under by ZLTR within appropriate time limit.

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2017-05-21	Stuck
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Information of this certificate can be found on the official website of Certification and Accreditation Administration of the People's Republic of China (<http://www.cnca.gov.cn>) and the official website of Beijing Zhonglian Tianrun Certification center (<http://www.zltr.com.cn>)





Beijing Zhongliantianrun Certification Center

Room 2601,2602,2603,26th Floor,2nd Unit, Block 1, No.4 Yard, Qiyang Road Chaoyang District, Beijing, P.R.China 100102

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Appendix B: NB Report

NB Report for 5mm thickness

Reference No. 75 35 01254
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INSTITUTE FOR TESTING AND CERTIFICATION
třída Tomáše Bati 299, Louky, 763 02 Zlín

TEST REPORT

Reference No. 75 35 01254/ 2015

Applicant:

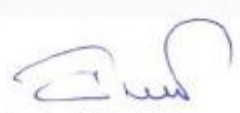
Product: **Luxury Vinyl – PVC heterogeneous floor covering**

Manufacturer:

Elaborated by: Milan Kovář

Issued on: 16th December 2015




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Representative of Notified Body No. 1023

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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

Reference No. 75 35 01254
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1. Introduction

This report was elaborated on the basis of the application No. 753501254 of 18/11/2015 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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2.3 Product specification

PVC heterogeneous floor covering

Structure:

- Wear layer (overlay) – thickness of 0.3 mm
- Core layer – thickness of 4.7 mm, high density plastic

Average density: 1900 kg/m³

Laying way: by click, loose (without glue)

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:

- Luxury Vinyl – PVC heterogeneous floor covering in quantity of 17 pcs of (150 x 1220 x 5) mm

The test samples were registered under the registration numbers 75 35 01254/1 on 09/11/2015.

2.5 Place and date of testing

- Institut pro testování a certifikaci (ITC), a.s., NB 1023, accredited laboratory No. 1004 Zlín (December 2015)
- Centrum stavebního inženýrství (CSI), a.s. Prague, Fire Technical Laboratory, Accredited test laboratory No. 1007.4, NB 1390 (December 2015)
- Výzkumný a vývojový ústav dřevařský, Praha, s.p., NB 1393, accredited laboratory No. 1031, Prague (November 2015)

2.6 Test results

2.6.1 Ignitability results

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Table 1 – Ignitability test results (A - direction)

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

Table 2 – Ignitability test results (B – direction – perpendicular to A)

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

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2.6.2 Results of burning behaviour using a radiant heat source

Table 3 - Results of burning behaviour using a radiant heat source (loose laying)

Characteristic	Measuring unit	Crosswise direction measurement	Lengthwise direction measurement (mean value)
Maximum distance of flame spread	mm	180	160.0
Critical heat flux (CHF)	kW/m ²	9.5	9.8
Distance of flame spread at 10th min.	mm	180	160.0
HF-10	kW/m ²	9.5	9.8
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	%	61.8	63.1
Integrated smoke value	% x min	314.4	315.3

2.6.3 Results of the reaction to fire classification

Table 4 – Reaction to fire classification

Product	Reaction to fire class	Additional class for smoke production	Final class
Luxury Vinyl – PVC heterogeneous floor covering	B _{fl}	s1	B _{fl} – s1

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2.6.4 Formaldehyde emission results

Table 5 – Results of the formaldehyde emission

Product	Measuring unit	Test result (class)
Luxury Vinyl – PVC heterogeneous floor covering	mg.m ⁻²	0.006 (E1)

3. NB 1023 Conclusions

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.

4. List of documents used to elaborate the Test Report

- Application No. 753501254 for assessment of CE-marked construction products
- ČSN EN 14041 (91 7883): Pružná textilní a laminátové podlahové krytiny – Podstatné vlastnosti (Resilient, textile and laminate floor coverings – Essential characteristics)
- Test Report, reference No. MVZ-02/15/197, elaborated by Výzkumný a vývojový ústav dřevařský, Praha, s.p., NB 1393, accredited laboratory No. 1031, Prague, on 25/11/2015
- Test Report of accredited laboratory, reference No. 753501254/01, elaborated by ITC a.s., accredited laboratory No. 1004, in Zlín, on 07/12/2015
- Test Report, reference No. 15/1234/P763, elaborated by Centrum stavebního inženýrství a.s., Fire Technical Laboratory, Prague, on 16/12/2015
- Classification Report using Results of Reaction to Fire No. 75 35 01254K/2015, elaborated by ITC, a.s. Zlín, on 16/12/2015

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NB Report for 3mm thickness

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INSTITUTE FOR TESTING AND CERTIFICATION
Iřidla Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

TEST REPORT

Reference No. 75 35 01313/ 2016

Applicant:

Product: **Luxury Vinyl – PVC heterogeneous floor covering**

Manufacturer:

Elaborated by: Milan Kovář

Issued on: 10th June 2016



RNDr. Radomír Čevelík
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**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

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1. Introduction

This report was elaborated on the basis of the application No. 753501313 of 26/04/2016 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

The formaldehyde emission test has not been required by the applicant.

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INSTITUTE FOR TESTING AND CERTIFICATION

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

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2.3 Product specification

PVC heterogeneous floor covering

Structure:

- Total thickness (wear layer thickness): 3.00 mm (0.55 mm)
- Bottom layer thickness: 2.45 mm

Average density: 1900 kg/m³

Laying way: by click, loose (without glue)

Photos:



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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:

- Luxury Vinyl – PVC heterogeneous floor covering in quantity of 11 pcs of (153 x 1220) mm and 11 pcs of (76 x 1220) mm

The test samples were registered under the registration numbers 75 35 01313/1 on 27/04/2016.

2.5 Place and date of testing

- Institut pro testování a certifikaci (ITC), a.s., NB 1023, accredited laboratory No. 1004 Zlín (June 2016)
- Centrum stavebního inženýrství (CSI), a.s. Prague, Fire Technical Laboratory, Accredited test laboratory No.1007.4, NB 1390 (June 2016)

2.6 Test results

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2.6.1 Ignitability results

Table 1 – Ignitability test results (A - direction)

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

Table 2 – Ignitability test results (B – direction – perpendicular to A)

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

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Notified Body No. 1023 * State Authorized Body No. 214 * Product and Management Systems Certification Bodies * Accredited Laboratory

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2.6.2 Results of burning behaviour using a radiant heat source

Table 3 - Results of burning behaviour using a radiant heat source (loose laying)

Characteristic	Measuring unit	Crosswise direction measurement	Lengthwise direction measurement (mean value)
Maximum distance of flame spread	mm	160	180.0
Critical heat flux (CHF)	kW/m ²	9.8	9.5
Distance of flame spread at 10th min.	mm	160	180.0
HF-10	kW/m ²	9.8	9.5
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	%	28.1	30.5
Integrated smoke value	% x min	83.9	98.0

2.6.3 Results of the reaction to fire classification

Table 4 – Reaction to fire classification

Product	Reaction to fire class	Additional class for smoke production	Final class
Luxury Vinyl – PVC heterogeneous floor covering	B _{fl}	s1	B _{fl} – s1

**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

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3. NB 1023 Conclusions

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.

4. List of documents used to elaborate the Test Report

- Application No. 753501313 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. 753501313/01, elaborated by ITC a.s., accredited laboratory No. 1004, in Zlín, on 10/06/2016
- Test Report, reference No. 16/530/P280, elaborated by Centrum stavebního inženýrství a.s., Fire Technical Laboratory, Prague, on 09/06/2016
- Classification Report using Results of Reaction to Fire No. 75 35 01313K/2016, elaborated by ITC, a.s. Zlín, on 10/06/2016

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NB Report for 1.5mm thickness

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INSTITUTE FOR TESTING AND CERTIFICATION

trida Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

TEST REPORT

Reference No. 75 35 01358/ 2016

Applicant:


Product: **Luxury Vinyl – PVC heterogeneous floor covering**

Manufacturer:

Elaborated by: Milan Kovář

Issued on: 31st August 2016




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1. Introduction

This report was elaborated on the basis of the application No. 753501358, registered on 04/08/2016 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

The formaldehyde emission test was not required by the manufacturer.

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2.3 Product specification

PVC heterogeneous floor covering (click system). Laying way: loose (without glueing)

Total thickness (wear layer thickness):

- 1.5 mm (0.12 mm)

Bottom layer thickness:

- 1.38

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:

- Luxury Vinyl - PVC heterogeneous floor covering, in the amount of 3 pcs (approx. 960 x approx. 970) mm and 1pc (approx. 100 x approx. 960) mm

The test samples were registered under the registration numbers 75 35 01358/1 on 01/08/2016.

Sample photo:



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2.5 Place and date of testing

- Institut pro testování a certifikaci (ITC), a.s., NB 1023, accredited laboratory No. 1004 Zlin (August 2016)
- Centrum stavebního inženýrství (CSI), a.s. Prague, Fire Technical Laboratory, Accredited test laboratory No.1007.4, NB 1390 (August 2016)

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 filler paper	No, No, No, No, No	No, No, No, No, No

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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	140	150.0
Critical heat flux (CHF)	kW/m ²	10.2	10.0
Distance of flame spread at 10th min.	mm	140	150.0
HF-10	kW/m ²	10.2	10.0
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	%	51.3	46.8
Integrated smoke value	% x min	142.3	137.0

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
Luxury Vinyl - PVC heterogeneous floor covering	B ₁	s1	B ₁ - s1

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

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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. 753501358 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. 753501358/01, elaborated by ITC a.s., accredited laboratory No. 1004, in Zlín, on 26/08/2016
- Test Report, reference No. 16/730/P480, elaborated by Centrum stavebního inženýrství a.s., Fire Technical Laboratory, Prague, on 31/08/2016
- Classification Report using Results of Reaction to Fire No. 75 35 01358K/2016, elaborated by ITC, a.s. Zlín, on 31/08/2016

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Appendix C: Copy of Marking Plate

	
EN 14041:2004/AC:2006	
Luxury Vinyl	
Virgin Material	
Reaction to fire	Class Bfl-s1
Content of pentachlorophenol	<0.5 ppm
Slipperiness	DS
Formaldehyde	E1

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.

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Appendix D: Sample received photo



Overall thickness: 5mm



Overall thickness: 3mm



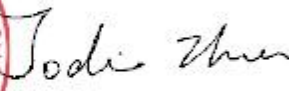
Overall thickness: 1.5mm

Approved by:



Name: Sun Sun

Title: Approver



Name: Jodie Zhou

Title: Reviewer



Name: Eryn Cui

Title: Project Engineer

The End of Report

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