



**TEST REPORT**  
**EN 14041:2004/AC:2006**  
**Resilient, textile and laminate floor coverings-Essential Characteristics**

Report Reference No.....:	160420008SHF-BP-1
Prepared by (name and signature) ...:	Evyn Cui <i>Evyn Cui</i>
Approved by (name and signature) ...:	Jodie Zhou <i>Jodie Zhou</i>
Date of issue.....:	June 16, 2016
Contents .....	Total test report 20 pages including: Report text: 4 pages Appendix A for product photos: 1 page Appendix B for copy of ISO 9001 certificate report: 1 page Appendix C for copy of Test Report (Issued by NB 1023): 13 pages Appendix D for marking plate: 1 page
<b>Testing Laboratory name</b> .....	Intertek Testing Services Ltd., Shanghai
Address.....:	Plant 7, No 6958 Daye Road, Fengxian District, Shanghai
Testing location.....:	Same as above
<b>Applicant's name</b> .....	CFL Flooring(China) Co., Ltd
Address.....:	No.111 ChangJiang Road JiaShan Development area Jiashan City
<b>Test specification:</b>	
Standard .....	EN 14041:2004/AC:2006
Non-standard test method.....:	N/A
<b>Test item description</b> .....:	Luxury Vinyl
Trade Mark .....	—
Model and/or type reference.....:	Virgin Material
Manufacturer .....	CFL Flooring(China) Co., Ltd
Rating(s) .....	Reaction to fire Class B <sub>fl</sub> -s1, Formaldehyde emission Class E1

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

<b>Test item particulars</b>
Classification of installation and use ..... : —
Supply Connection ..... : —
<b>Possible test case verdicts</b>
- 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)
<b>Testing</b>
Date of receipt of test item ..... : April 7, 2016
Date (s) of performance of tests ..... : April 20, 2016 to June 16, 2016
<b>General remarks:</b>
<p>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.</p> <p>Throughout this report a comma (point) is used as the decimal separator.</p> <p>When determining the test result, measurement uncertainty has been considered.</p>

<b>General product information:</b>
Sample Description: Luxury Vinyl
Model: Virgin Material
Average density: 1900 kg/m <sup>3</sup>
Overall thickness: 3-5mm
Thickness of wear layer: 0.3-0.55mm
The way of laying: by click, loose(without glue)
Detail information refers to appendix A Product photos.
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.

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EN 14041:2004/AC:2006			
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: 5mm<sup>1</sup> Reaction to fire class B<sub>fl</sub>-s1</p> <p>Overall thickness: 3mm<sup>2</sup> Reaction to fire class B<sub>fl</sub>-s1 Refer to test report in Appendix C (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: 5mm<sup>1</sup> &lt;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: 5mm<sup>1</sup> 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 <math>\geq 0,30</math> when tested ex-factory under dry conditions in accordance with EN 13893 and shall be declared as technical class DS.</p>	<p>Class DS Overall thickness: 5mm<sup>1</sup> Dynamic coefficient of friction: 0.45 Overall thickness: 3mm<sup>2</sup> Dynamic coefficient of friction: 0.47</p>	P
4.7	<p>Thermal conductivity</p> <p>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.</p>	<p>Overall thickness: 5mm<sup>1</sup> Mean temperature: 25°C Temperature difference: 13°C Thermal conductivity: 0.145 W/(m·K) Thermal resistance: 0.034 (m<sup>2</sup>·K)/W Mean thickness measured by equipment: 4.96mm</p>	N/A
5	Evaluation of conformity		
5.1	<p>General</p> <p>The conformity of the component with the requirements of this standard shall be demonstrated by: Clause 5.2 and 5.3</p>		

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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	Pass
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 B	Pass
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 D 'Copy of marking plate'	Pass

## 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. The 3mm thickness Luxury Vinyl test samples were arrived on April 7, 2016.

\*\*\*\*\*End of Page\*\*\*\*\*

**Appendix A**

**Product photos**



\*\*\*\*\*End of Page\*\*\*\*\*

Appendix B


ISO 9001 Certificate Report



\*\*\*\*\*End of Page\*\*\*\*\*

**Appendix C****NB Report for 5mm thickness**Reference No. 75 35 01254  
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třída Tomáše Bati 299, Louky, 763 02 Zlín**TEST REPORT**

Reference No. 75 35 01254/ 2015

**Applicant:** **Chinafloors Timber (China) Co., Ltd.**  
**No. 111 ChangJiang Road, JiaShan,**  
**Development area, Jiashan City,**  
**China****Product:** **Luxury Vinyl – PVC heterogeneous floor covering****Manufacturer:** Chinafloors Timber (China) Co., Ltd.  
No. 111 ChangJiang Road, JiaShan,  
Development area, Jiashan City,  
China**Elaborated by:** Milan Kovář **Issued on:** 16<sup>th</sup> December 2015  
RNDr. Radomír Čevelík  
Representative of Notified Body No. 1023Tax & VAT Id No.: CZ47910381  
Company Id No.: 47910381Phone: +420 577 601 238  
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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/m<sup>3</sup>

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 <sup>2</sup>	9.5	9.8
Distance of flame spread at 10th min.	mm	180	160.0
HF-10	kW/m <sup>2</sup>	9.5	9.8
Distance of flame spread at 20th min.	mm	(-)	(-)
HF-20	kW/m <sup>2</sup>	(-)	(-)
Distance of flame spread at 30th min.	mm	(-)	(-)
HF-30	kW/m <sup>2</sup>	(-)	(-)
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 <sub>f1</sub>	s1	B <sub>f1</sub> – 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 <sup>-3</sup>	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): Pružné 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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třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

## TEST REPORT

Reference No. 75 35 01313/ 2016

**Applicant:** Chinafloors Timber (China) Co., Ltd.  
No. 111 ChangJiang Road, JiaShan,  
Development Area, Jiashan City,  
China

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

**Manufacturer:** Chinafloors Timber (China) Co., Ltd.  
No. 111 ChangJiang Road, JiaShan,  
Development Area, Jiashan City,  
China

**Elaborated by:** Milan Kovář

A handwritten signature in blue ink, appearing to read 'Milan Kovář', is written over the text 'Elaborated by: Milan Kovář'.

**Issued on:** 10<sup>th</sup> June 2016



A handwritten signature in blue ink, appearing to read 'RNDr. Radomír Čevelík', is written over the text 'RNDr. Radomír Čevelík'.

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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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**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/m<sup>3</sup>

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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**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 <sup>2</sup>	9.8	<b>9.5</b>
Distance of flame spread at 10th min.	mm	160	180.0
HF-10	kW/m <sup>2</sup>	9.8	9.5
Distance of flame spread at 20th min.	mm	(-)	(-)
HF-20	kW/m <sup>2</sup>	(-)	(-)
Distance of flame spread at 30th min.	mm	(-)	(-)
HF-30	kW/m <sup>2</sup>	(-)	(-)
Maximum light attenuation	%	28.1	30.5
Integrated smoke value	% x min	83.9	<b>98.0</b>

**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 <sub>f1</sub>	s1	<b>B<sub>f1</sub> – s1</b>

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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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**Appendix D**  
**Copy of Marking Plate**

Copy of marking plate


<b>CFL Flooring(China) Co., Ltd</b> <b>16</b>
EN 14041:2004/AC:2006 Luxury Vinyl Virgin Material Reaction to fire Class <b>B<sub>fl</sub>-s1</b> 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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