

Test Conducted:

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

Characteristics (Excluding Clause 4.4 4.6& 4.7)

Test Property	Test procedure/requirements	Rating/ Result										
Reaction to fire clause 4.1	The specimen shall be tested on one of the two standard substrates specified for floorings in EN 13238:2001 according to the intended end use. The composition of the product, including the presence of any fire retardant additive, shall be declared by the manufacturer prior to type testing.	See result 1										
Content of pentachlorophenol (PCP) clause 4.2	Resilient, textile and laminate floor shall not contain PCP. In case of where verification is required, if the content is less than 5ppm in the parts of the product, this requirement shall be considered to be met. For laminate floor the method CEN/TR 14823, for textile floor the method CEN/TS 14494 shall be used. For resilient floor verification is not required.	Pass See result 2										
Formaldehyde emission clause 4.3	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. <table border="1" data-bbox="448 1111 1058 1296"> <thead> <tr> <th></th> <th>Test method</th> <th colspan="2">Formaldehyde class and Requirement</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Initial type testing</td> <td rowspan="2">ENV 717-1</td> <td>Class E1</td> <td>Release≤0.124 mg/m³</td> </tr> <tr> <td>Class E2</td> <td>Release>0.124 mg/m³</td> </tr> </tbody> </table>		Test method	Formaldehyde class and Requirement		Initial type testing	ENV 717-1	Class E1	Release≤0.124 mg/m ³	Class E2	Release>0.124 mg/m ³	Class: E1 See result 1
	Test method	Formaldehyde class and Requirement										
Initial type testing	ENV 717-1	Class E1	Release≤0.124 mg/m ³									
		Class E2	Release>0.124 mg/m ³									
Slip resistance clause 4.5	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 ≥0,30 when tested ex-factory under dry conditions in accordance with EN 13893 and shall be declared as technical class DS. Although such floors may be subjected to occasional spillage and wet cleaning, the manufacturer does not guarantee the performance under these conditions. If no claim for slip resistance is made, the floor coverings for which no performance has been determined shall be declared as technical class NPD.	Pass Dynamic coefficient of Friction: 0.50										
Marking and Labelling clause 6	Products 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 the following information: a) the number and the year of this European Standard, i.e. EN 14041:2004; b) the manufacturer's or supplier's identification;	Pass										



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Test Property	Test procedure/requirements	Rating/ Result
	c) the product name and batch number (possibly in code form).	



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Test result 1

Reference No. 75 35 01770
Page 1 of 8**INSTITUTE FOR TESTING AND CERTIFICATION, INC.**
Ifida Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic**TEST REPORT**

Reference No. 75 35 01770/ 2019

Applicant: JIANGSU ZHENGMEI ECOLOGY WOOD CO., LTD.
NO.188 LAOWEI INDUSTRIAL AREA, XINGHUA, JIANGSU, CHINA

Product: SPC Flooring Product, thickness: 4.0 mm

Manufacturer: JIANGSU ZHENGMEI ECOLOGY WOOD CO., LTD.
NO.188 LAOWEI INDUSTRIAL AREA, XINGHUA, JIANGSU, CHINA

Elaborated by: Milan Kovář

Issued on: 16th August 2019



Paul Heß
Jiří Heß
Representative of Notified Body No. 1023

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Reference No. 75 35 01770
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1. Introduction

This report was elaborated on the basis of the application No. 753501770, registered on 18/07/2019 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 classes 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 89/109/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(A0:2006)).

2.2 Indicators specifying basic requirements for construction works

The initial type testing (proofing) was carried out by the notified body (the notified testing 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 – loose laying/
 - 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 in a form of planks.

Composition-SPC Plank, dimensions: (1220 x 228) mm

- Total thickness: 4.0 mm/0.3 mm -- wear layer (0.3 mm - PVC), base layer (3.7 mm - PVC+CaCO3)

Laying way: loose way, click system

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:

- SPC floor covering, thickness of 4.0 mm in the amount of 10 pcs of (250 x 90) mm, 6 pcs of (1050 x 228) mm and 1 pc of (1228 x 228) - packed into Al foil

The test samples were registered under the registration numbers 75 35 017270/1 on 19/07/2019.

2.5 Place and date of testing

- Institut pro testování a certifikaci (ITC), a.s., NB 1023, accredited laboratory No. 1004 Zlín (July 2019)
- Institut pro testování a certifikaci (ITC), a.s. CSI division - Centrum stavebního inženýrství Prague, Fire Technical Laboratory, Accredited test laboratory No.1007.4 (August 2019)
- Výzkumný a vývojový ústav dřevařský, Praha, s.p., NB 1393, accredited laboratory No. 1031, Prague (July 2019)

2.6 Test results

2.6.1 Ignitability results



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Table 1 – Ignitability test results

Characteristic	Surface exposure test – long flame direction Performance criteria for individual test specimens	Surface exposure test – crosswise direction Performance criteria for individual test specimens
Species of the test specimen	Yes, No, No, No, No	Yes, No, No, No, No
Flame spreading of a result in classes of 100 and 1000 Based on burner model 100 mm 100	Yes, No, No, No, No	Yes, No, No, No, No
Species of the test paper	Yes, No, No, No, No	Yes, No, No, No, No

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	170	200.0
Critical heat flux (CHF)	kW/m ²	9.7	9.1
Distance of flame spread at 10th min.	mm	170	200.0
HF-10	kW/m ²	9.7	9.1
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	%	47.1	51.7
Integrated smoke value	% x min	281.4	299.3

2.6.3 Results of the reaction to fire classification



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Table 3 -- Reaction to fire classification

Product	Reaction to fire class	Additional class for smoke production	Final class
SPC flooring product, thickness: 4.0 mm	B _s	s1	B _s - s1

2.6.4 Formaldehyde emission result

Table 4 -- Results of the formaldehyde emission

Product	Measuring unit	Test result (class)
SPC flooring product, thickness: 4.0 mm	mg.m ⁻³	0.004 (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.

2. List of documents used to elaborate the Test Report

- * Application No. 753561770 for assessment of CE-marked construction products
- * EN 14971 (EN 13893): *Product based a household parquet taping - Production without glue, nails and fasteners connection - General specification*
- * Test Report of notified laboratory, reference No. 753561770-01, conducted by ITC s.a., accredited laboratory No. 1023, in Zlín, on 07/01/2019



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- Test Report, reference No. 19/440/P352, elaborated by Centrum stavebního inženýrství a.s., Fire Technical Laboratory, Prague, on 16/08/2019
- Test Report, reference No. MVZ-A-2019-001060, elaborated by Výzkumný a vývojový ústav dřevařský, Praha, s.p., accredited testing laboratory No. 1031, Prague, on 06/08/2019
- Classification Report using Results of Reaction to Fire No. 75 35 01770K/2019, elaborated by ITC, a.s. Zlín, on 16/08/2019



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Test result 2

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA19-163464.001	Grey plastic flooring

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Pentachlorophenol (PCP)

Test Method : With reference to FD CEN/TR 14823:2006, Analysis was performed by GC-ECD or GC-MS..

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Pentachlorophenol (PCP)	mg/kg	1	ND

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Sample Photo:

Test sample (front side)



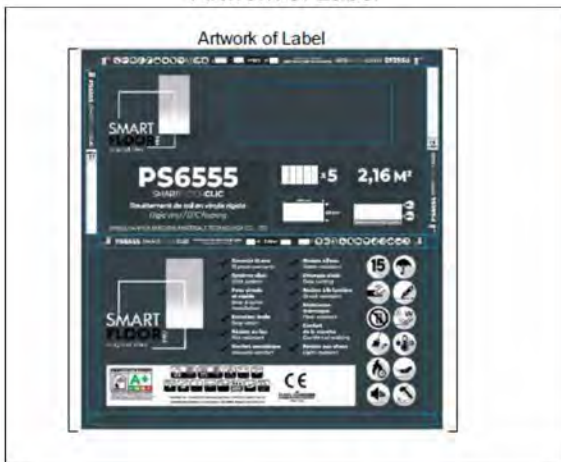
Test sample (back side)



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