

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

TEST REPORT

Reference No. 75 35 01871/2020

Applicant:

ZHEJIANG ECO NEW MATERIAL CO., LTD.

No. 38, ZIJIN ROAD, PUYUAN HIGH-TECH ZONE,

TONGXIANG, ZHEJIANG, China

Product:

Heterogeneous PVC flooring covering (type:

VINYL FLOORING-SPC, two specifications: 1220 mm x 180 mm x 3.2 mm/0.20 mm and 1220 mm x 180 mm x 7.0mm/0.55 mm), brand name: ECO

FLOORS

Manufacturer: ZHEJIANG ECO NEW MATERIAL CO., LTD.

No. 38, ZIJIN ROAD, PUYUAN HIGH-TECH ZONE,

TONGXIANG, ZHEJIANG, China

Elaborated by: Milan Kovář

Issued on:

8th June 2020

Jiří Heš

GAND Representative of Notified Body No. 1023

Tax & VAT Id No.: CZ47910381 Company Id No.: 47910381

Phone: +420 577 601 238

+420 577 601 623

Fax: +420 577 104 855

+420 577 601 702

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



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 01871

Page 2 of 8

1. Introduction

This report was elaborated on the basis of the application *No. 753501870, registered on 01/04/2020* 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 (testing) 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/
- classification according to ČSN EN 13501-1
- Formaldehyde emission according to ITC test regulation ITC A-19-115 (ČSN EN 717-1) (thickness of 7.0 mm/0.55 mm, only)



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 01871

Page 3 of 8

2.3 Product specification

PVC heterogeneous floor covering tiles. Standard dimensions: (1220 x 180) mm. Composition :

- Total thickness: 3.2 mm UV layer epoxy acrylic resin (0.10 mm), wear layer (0.20 mm PVC), print film (0.10 mm), SPC bottom layer (2.80 mm PVC+calcium carbonate)
- Total thickness: 7.0 mm UV layer epoxy acrylic resin (0.10 mm), wear layer (0.55 mm PVC), print film (0.10 mm), SPC bottom layer (6.25 mm PVC+calcium carbonate)

Laying way: loose, with click

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:

- Heterogeneous PVC floor covering tiles (type: VINYL FLOORING-SPC) in quantity: 10 pcs of tiles (1220 x 180 x 3.2/0.20) mm
- Heterogeneous PVC floor covering tiles (type: VINYL FLOORING-SPC) in quantity: 11 pcs of tiles (1220 x 180 x 7.0/0.55) mm and 3 pcs of tiles (1220 x 180 x 7.0/0.55) mm, (packed into PE foil)

The test samples were registered under the registration numbers 75 35 01871/1 and 75 35 01871/2 on 27/04/2020.



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 01871

Page 4 of 8

Photo of the test sample:



2.5 Place and date of testing

- Institut pro testování a certifikaci (ITC), a.s., NB 1023, accredited laboratory No. 1004 Zlín (May 2020)
- Institut pro testování a certifikaci (ITC), a.s. CSI division Centrum stavebního inženýrství Prague, Accredited test laboratory No.1007.4 (May-June 2020)

2.6 Test results



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 01871

Page 5 of 8

2.6.1 Ignitability results

Table 1- Ignitability test results - total thickness: 3.2 mm

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	
Flame reaching of a mark in distance of 150 mm Yes/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	

Table 2 – Ignitability test results - total thickness: 7.0 mm

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, Yes	
Flame reaching of a mark in distance of 150 mm Yes/No	No, No, No, No	No, No, No, No	
Burning time to reach 150 mm (s)	7, 7, 7, 7	-, -, -, -, -	
Ignition of the filter paper	No, No, No, No	No, No, No, No	

2.6.2 Results of burning behaviour using a radiant heat source



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 01871

Page 6 of 8

Table 3 - Results of burning behaviour using a radiant heat source - total thickness: 3.2 mm

Characteristic	Measuring unit	Crosswise direction measurement	Lengthwise direction measurement (mean value)
Maximum distance of flame spread	mm	220	233.3
Critical heat flux (CHF)	kW/m²	8.7	8.4
Distance of flame spread at 10th min.	mm	200	206.7
HF-10	kW/m ²	9.1	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/m²	(-)	(-)
Maximum light attenuation	%	48.8	54.6
Integrated smoke value	% x min	307.8	318.5

Table 4 - Results of burning behaviour using a radiant heat source - total thickness: 7.0 mm

Characteristic	Measuring unit	Crosswise direction measurement	Lengthwise direction measurement (mean value)
Maximum distance of flame spread	mm	210	223.3
Critical heat flux (CHF)	kW/m²	8.9	8.6
Distance of flame spread at 10th min.	mm	180	213.3
HF-10	kW/m²	9.5	8.8
Distance of flame spread at 20th min.	mm	(-)	(-)
HF-20	kW/m²	(-)	(-)
Distance of flame spread at 30th min.	mm	(-)	(-)
HF-30	kW/m²	(-)	(-)
Maximum light attenuation	%	55.6	64.2
Integrated smoke value	% x min	324.8	346.4



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 01871

Page 7 of 8

2.6.3 Results of the reaction to fire classification

Table 5 – Reaction to fire classification

Product	Reaction to fire class	Additional class for smoke production	Final class
Heterogeneous PVC floor covering tiles (type: VINYL FLOORING-SPC), total thickness: 3.2 mm	B _{fl}	s1	B _{fl} – s1
Heterogeneous PVC floor covering tiles (type: VINYL FLOORING-SPC), total thickness: 7.0 mm	B _{fl}	s1	B _{fl} – s1

2.6.4 Formaldehyde emission result

Table 6 - Results of the formaldehyde emission

Product	Measuring unit	Test result (class)
Heterogeneous PVC floor covering tiles (type: VINYL FLOORING-SPC), total thickness: 7.0 mm	mg.m ⁻³	< 0.026 ^{a)} (E1)

Note: a) - detection limit of the method

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.



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 01871

Page 8 of 8

3. List of documents used to elaborate the Test Report

- Application No. 753501871 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. 753501871-01, elaborated by ITC a.s., accredited laboratory No. 1004, in Zlín, on 20/05/2020
- Test Reports, references No. 20/P266 and 20/P267, elaborated by Institut pro testování a certifikaci (ITC), a.s. CSI division - Centrum stavebního inženýrství Prague, Accredited test laboratory No.1007.4 on 05/06/2020
- Test Report of accredited laboratory, reference No. 753501871-03, elaborated by ITC a.s., accredited laboratory No. 1004, in Zlín, on 21/05/2020
- Classification Report using Results of Reaction to Fire No. 75 35 01871K/2020, elaborated by ITC, a.s. Zlín, on 05/06/2020