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Division CSI - Centre of Building Constructions

Notified body 1023



REPORT OF ASSESSMENT OF PERFORMANCE

No. 753502008 / 2021

Product: **PVC floor covering tiles, type SPC, specification:**

- 225 x 1220 x 4.0/0.55 mm, 4V groove
- 225 x 1220 x 4.0/0.40 mm, 4V groove
- 180 x 1220 x 4.0/0.55 mm, 4V groove
- 180 x 1220 x 3.5/0.30 mm
- 225 x 1220 x 4.0/0.55 mm
- 305 x 610 x 4.0/0.55 mm
- 610 x 610 x 4.0/0.55 mm

Brand names: HOME INSPIRE, METAMORPHOSE

Applicant: **Emergo Adam Parda**
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Jiří Heš
Representative of the NB 1023

1. Introduction

This report was elaborated on the basis of the application No. 753502008, registered on 10/02/2021 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“).

The following documents submitted

- Applicant's Statement from 10/02/2021
- ZHEJIANG ECO NEW MATERIAL CO. LTD company's agreement from 18/12/2020

show:

1. Receipt of test results from the document:

- Test Report, No. 753501871/2020, elaborated by the Notified Body No. 1023 – ITC a.s. Zlin, on 08/06/2020

2. The „PVC floor covering tiles, type: SPC – thicknesses: 4 mm/0.55 mm, 4 mm/0.40 mm, 3.5 mm/0.30 mm, brand names: HOME INSPIRE and METAMORPHOSE “ are products from the ZHEJIANG ECO NEW MATERIAL CO. LTD. company's product line (group), whose representatives /with minimum total thickness (3.2 mm) and maximum total thickness (7.0 mm)/ have already been tested. It is documented by the Test Report, No. 753501871/2020

3. All products of this product line (group) have *the same composition* of the individual, corresponding layers.

4. Since June 2020, the products from this production line (group) have not been changed.

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)

2.3 Product specification

PVC heterogeneous floor covering tiles.

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)
- *Total thickness: 4.0 mm – UV layer - epoxy acrylic resin, wear layer (0.55 mm – PVC), print film, SPC bottom layer (PVC+calcium carbonate)*
- *Total thickness: 4.0 mm – UV layer - epoxy acrylic resin, wear layer (0.40 mm – PVC), print film, SPC bottom layer (PVC+calcium carbonate)*
- *Total thickness: 3.5 mm – UV layer - epoxy acrylic resin, wear layer (0.30 mm – PVC), print film, SPC bottom layer (PVC+calcium carbonate)*

Laying way: loose, with click

2.4 Sampling place and number of samples taken

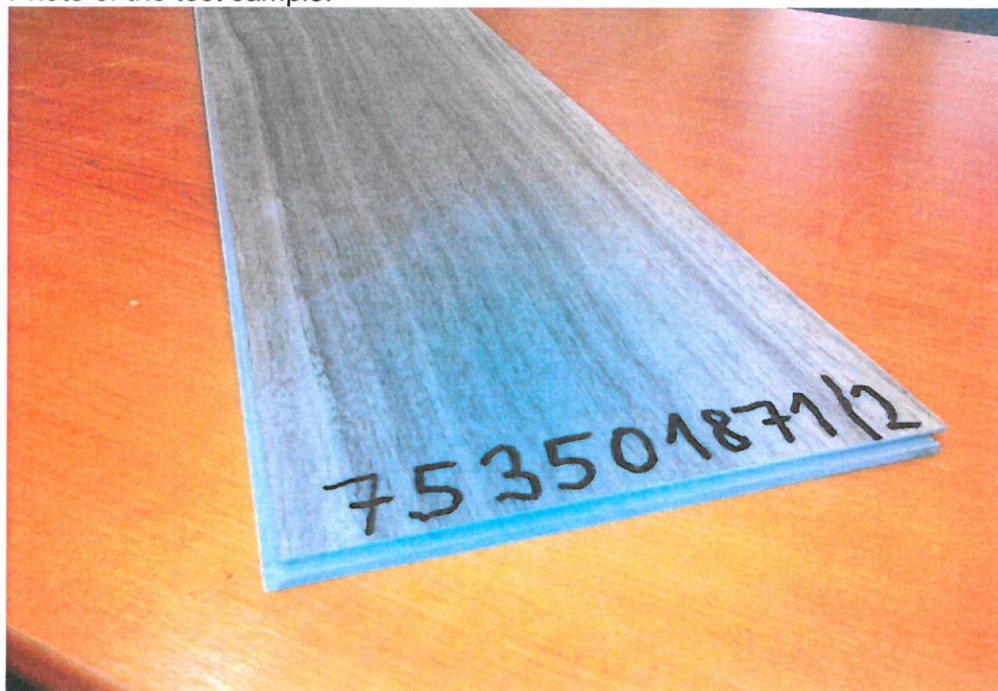
The test samples were sent by the manufacturer. The number of the test samples sent was as follows:

- 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.

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

Tests were carried out on test representatives.

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, 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

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, No, No, Yes
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

2.6.2 Results of burning behaviour using a radiant heat source

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/m ²	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/m ²	(-)	(-)
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/m ²	8.9	8.6
Distance of flame spread at 10th min.	mm	180	213.3
HF-10	kW/m ²	9.5	8.8
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	%	55.6	64.2
Integrated smoke value	% x min	324.8	346.4

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
PVC flooring covering tiles, type: SPC, specification: - 225 x 1220 x 4.0/0.55 mm, 4V groove - 225 x 1220 x 4.0/0.40 mm, 4V groove - 180 x 1220 x 4.0/0.55 mm, 4V groove - 180 x 1200 x 3.5/0.30 mm - 225 x 1220 x 4.0/0.55 mm - 305 x 610 x 4.0/0.55 mm - 610 x 610 x 4.0/0.55 mm brand names: HOME INSPIRE, METAMORPHOSE	B _{fl}	s1	B _{fl} – s1

2.6.4.1 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

2.6.4.2 Formaldehyde emission classification

Table 7 – Formaldehyde emission class

Product	Measuring unit	Class
PVC flooring covering tiles, type: SPC, specification: - 225 x 1220 x 4.0/0.55 mm, 4V groove - 225 x 1220 x 4.0/0.40 mm, 4V groove - 180 x 1220 x 4.0/0.55 mm, 4V groove - 180 x 1200 x 3.5/0.30 mm - 225 x 1220 x 4.0/0.55 mm - 305 x 610 x 4.0/0.55 mm - 610 x 610 x 4.0/0.55 mm brand names: HOME INSPIRE, METAMORPHOSE	-	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 of the Report of Assessment of Performance

- Application No. 753502008 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)
- Applicant's Statement from 10/02/2021
- ZHEJIANG ECO NEW MATERIAL CO. LTD company's declaration from 18/12/2020
- Test Report, No. 753501871/2020, elaborated by the Notified Body No. 1023 – ITC a.s. Zlin, on 08/06/2020