

Textilní zkušební ústav, s.p.

TEXTILNÍ ZKUŠEBNÍ ÚSTAV, s.p.
(Textile Testing Institute)
Notified Body No. 1021
Cejl 480/12, Zábřdovice, 602 00 Brno, Czech Republic

issues

PERFORMANCE ASSESSMENT PROTOCOL

In compliance with the Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products, in the valid wording (Construction Products Regulation – CPR) – Annex V, art. 1.4 (system 3 of AVCP)

No.: 1021 – CPR – 21/023-1



Product: **SPC Flooring;**
Type No: Walrus SPC Flooring (IXPE)

Manufacturer: **Zhejiang Walrus New Material Co., Ltd.**
No. 380 Haifeng Road, Haining Economic Development Zone, Haining, China

Technical specification: **EN 14041:2004/ AC:2006 Resilient, textile and laminate floor coverings – Essential characteristics** (Art. 4.1 Reaction to fire, Art. 4.3 Formaldehyde emission, Art. 4.5 Slip resistance)

Test method:

- EN 13501-1:2018 Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests (EN ISO 11925-2, EN ISO 9239-1)
- EN 717-1:2004 Wood-based panels – Determination of formaldehyde release – Part 1: Formaldehyde release by the chamber method
- EN 13893:2002 Resilient, laminate and textile floor coverings – Measurement of dynamic coefficient of friction on dry floor surfaces

Classification:

Reaction to fire	class B_n – s1
Formaldehyde emission	class E1
Slip resistance	class DS

Terms of protocol application: This protocol applies to the product mentioned above and can be used only for this product. The protocol must only be published in unshortened form. The Manufacturer can publish a part of the protocol only if approved by the Notified Body 1021. The protocol remains in force as long as the conditions remain the same. This document does not replace type approval or certificate.

Number of pages: 5

Brno, 27.01.2021

Validity till: 26.01.2026

RNDr. Pavel Malčík
Managing Director





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1. Information about the manufacturer and about the assessed product

1.1 Manufacturer

Zhejiang Walrus New Material Co., Ltd.

No. 380 Haifeng Road, Haining Economic Development Zone, Haining, China

1.2 Product description (according to the manufacturer declaration)

Tested product: SPC Flooring; Type No: Walrus SPC Flooring (IXPE)

Composition: Polyvinylchloride 20 - 25 %, Calcium Carbonate 67 - 72 %, Stabilizer 4 - 6 %, Dioctyl Terephthalate 5 - 8 %; (IXPE)

Thickness: 3,5 – 8,0 mm; Mass: 7,0 – 13,6 kg.m⁻²; Colour: Beige /Light gray

Thickness: 3,5 – 8,0 mm; Mass: 7,0 – 13,6 kg.m⁻²; Colour: Beige /Light gray

Tested samples: A) 3,5 mm/ 7,0 kg.m⁻²

B) 8,0 mm/ 13,6 kg.m⁻²

Sampling was carried out by manufacturer.

1.3 Origin and final utilization of the product

The product – has been specified as “the classified product of type”. The classification applies to the following product and final application:

- flooring for full-area covering of floor declared for installation without use of adhesive.

Testing was performed on sample without use of adhesive.

Manufacturer declares no fire retardants or a limiting organic material were used.

2. Information about the initial testing

2.1 Technical specification

Testing and the assessment of the product are performed to show conformity assessment with the harmonized standard requirements (*system 3 of assessment and verification of constancy of performance – Regulation No. 305/2011, Annex V, Art. 1.4*).

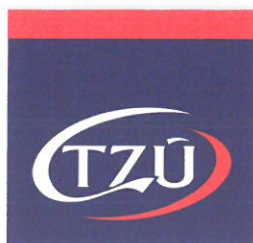
EN 14041:2004/AC:2006 Resilient, textile and laminate floor coverings – Essential characteristics (art. 4.1 Reaction to fire, art. 4.3 Formaldehyde emission, art. 4.5 Slip resistance, art. 5.2 Type testing, Annex ZA).

2.2 Testing methods

Testing of the product was performed according to test methods:

- EN 13501-1:2018 Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests.
 - EN ISO 11925-2 Reaction to fire tests – Ignitability of building products subjected to direct impingement of flame – Part 2: Single-flame source test
 - EN ISO 9239-1 Reaction to fire tests for floorings – Part 1: Determination of the burning behaviour using a radiant heat source





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- EN 717-1:2004 Wood-based panels – Determination of formaldehyde release – Part 1: Formaldehyde emission by the chamber method
- EN 13893:2002 Resilient, laminate and textile floor coverings – Measurement of dynamic coefficient of friction on dry floor surfaces

2.3 Testing results

Testing and assessment of slip resistance was performed on a voluntary basis, by a request of the manufacturer.

2.3.1 Reaction to fire – results

Table No.1A) - testing results - reaction to fire (art. 4.1) sample A) 3,5 mm

Testing method	Characteristic	Value identified (longitudinal direction)	Value identified (transverse direction)			Results	
						Average continual parameter (m)	Parameter of fulfilment
EN ISO 11925-2 exposure – 15 s	Flame spread: $F_s \leq 150$ mm	yes	yes	yes	yes	(-)	yes
EN ISO 9239-1	Critical heat flux CHF (kW.m^{-2})	≥ 11	≥ 11	-	-	-	(-)
	Smoke (% .minute)	10,3	1,2	-	-	-	

Table No.1B) - testing results - reaction to fire (art. 4.1) sample B) 8,0 mm

Testing method	Characteristic	Value identified (transverse direction)	Value identified (longitudinal direction)				Results	
							Average continual parameter (m)	Parameter of fulfilment
EN ISO 9239-1	Critical heat flux CHF (kW.m^{-2})	≥ 11	≥ 11	≥ 11	≥ 11	≥ 11	(-)	
	Smoke (% .minute)	20,0	15,5	20,8	22,9	19,7		

Legend: (-) - not related

Notice: If a floor covering is produced with a range of different nominal thickness this needs to be considered when testing. The minimum and maximum thickness (one test each) is tested and complete set of tests for the worst case is carried out. The worst case determines the classification.

For tested scope – sample B) is considered as the worst case. Result is valid for whole scope.

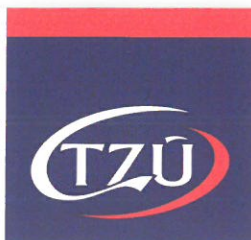
2.3.2 Formaldehyde emission - results

Table No.2 - testing results - formaldehyde emission (art. 4.3) sample B)

Testing method	Characteristic	Requirement	Value identified	Evaluation
EN 717-1	Release of formaldehyde	class E1 ... $\leq 0,124 \text{ mg/m}^3$ E2 ... $> 0,124 \text{ mg/m}^3$	0,0020 mg HCHO/m³	S (E1) -

Legend: S – satisfy





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2.3.3 Slip resistance - results

Table No.3 - testing result – slip resistance (EN 14041 – Art. 4.5) sample B)

Testing method	Characteristic	Requirement	Value identified	Evaluation
EN 13893	Dynamic coefficient of friction - μ	class DS ... $\geq 0,30$	0,38	S

Legend: S - satisfy

3. Classification of construction product and area of direct application

3.1 Reaction to fire

Classification has been performed in compliance with the following articles of EN 13501-1:

- article 12.6 (requirements - class B_n), article 12.9.2 (requirements – s1) and with articles of EN 14041: article 4.1.4 (classification), Annex ZA, article ZA.4

Classification of construction product

Testing method	Characteristic	Requirement	Value identified	Evaluation
EN ISO 11925-2 exposure – 15 s	Flame spread F _s	class B _n F _s ≤ 150 mm	Flame didn't spread more than 150 mm	S
EN ISO 9239-1	Critical heat flux (kW.m ⁻²)	class B _n ≥ 8 kW.m ⁻²	≥ 11	S
	Smoke (% .minute)	class s1 ≤ 750 % .minute	19,7	S

Legend: S- satisfy

Behaviour during burning	Smoke generation
B _n	s 1

Classification of the product according to reaction to fire:

On the basis of testing results the product shall be declared as class:

B_n

Additional classification according to smoke generation:

s1

Modification of floor covering classification according to reaction to fire:

B_n – s1

3.1.1 Area of application

The present classification applies only for the assessed product with the above specified parameters (see art. 1 of this protocol). The classification applies for the following final use of the product:

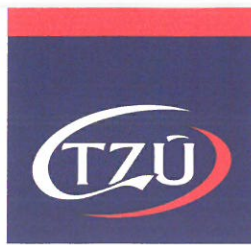
- underlying layer: the type testing results can be used if the density of practical underlying layer is min. 0,75 multiple of density of standard substrate (according to EN 13238, art. 5.1)
- method of laying: laying without use of adhesive.

3.2 Formaldehyde emission

The classification has been performed in compliance with the art. 4.3 of the standard EN 14041.

On the basis of initial testing result the product shall be declared as formaldehyde class E1.





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3.3 Slip resistance

Testing and assessment has been performed by a request of the manufacturer in compliance with table ZA.1. The classification has been performed in compliance with the art. 4.5 of the standard EN 14041. The classification is applicable for floor coverings that are used in dry and non-contaminated conditions.

On the basis of initial testing result the product shall be declared as technical class DS.

4. Regulations of usability

4.1 Limitation

The results of tests and performance assessment apply as long as the conditions remain the same. If the change occurs in the product, the raw material or supplier of the components, or the production process, which would change significantly one or more of the characteristics the tests shall be repeated for the appropriate characteristic.

This Performance assessment protocol is valid till 26.01.2026 provided the technical parameters of product are not changed.


4.2 Usability

The manufacturer can use this protocol for drawing up a declaration of conformity according to requirement of the standard EN 14041 (annex ZA - art. ZA.2.2.2) - Declaration of Performance according to CPR. This Declaration of Performance entitles to affix CE marking on the product (according to annex ZA - art. ZA.3 of the standard EN 14041). This protocol issued by Notified Body is only a part of the complete performance assessment.


5. List of documentation for the protocol elaboration

1. Application for testing and classification of the product No. 023-1/21 on 07.01.2021.
2. Technical documentation of manufacturer (product description).
3. Test protocol No. AZL 21/0087 (on 26.01.2021), issued by the accredited testing laboratory of TZÚ Brno.
4. Test report No. MVZ-A-2021-001681 (on 21.01.2021), issued by the accredited testing laboratory of VVÚD Prague.

Protocol issued by:


Lenka Tomková
Certification Body

Protocol checked by:


Svatava Horáčková
Head of Certification Department

