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Technical and Test Institute for Construction Prague, SOE

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Notified Body 1020
Branch 0100 – Praha

REPORT

on the assessment of performance

according to the Regulation (EU) 305/2011 of the European Parliament and of the Council of 9 March 2011
(the Construction Products Regulation or CPR), Art. 1.4 of the Annex V (system 3)

No. 1020-CPR-010043558

Trade name:

Resilient floor covering according to EN 14041:2004/AC:2006

type/ variation: **LVT Panels**

Number of report pages including title-page: 3

Number of annexes: 4

The person taking responsibility for the content of this report:

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Chief Assessor

The person taking responsibility for the correctness of this report:

Stamp of the Notified Body 1020

Prague, November 26, 2020



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1. Specification of tested subject

1.1. Description and intended use of the product

Resilient floor covering according to EN 14041:2004/AC:2006

type/ variation:

LVT Panels

Thickness: 2.0 mm – 5.0 mm

Composition: PVC powder, stone powder, stabilizer, plasticizer

1.2. Technical specification:

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

2. Sampling

Date of the taking over in testing laboratories:

27.10.2020 (testing laboratory SGS-CSTC Standards Technical Services Co., Ltd. - Guangzhou Branch) – reaction to fire testing

26.10.2020 (testing laboratory SGS-CSTC Standards Technical Services Co., Ltd. - Guangzhou Branch – Chemical laboratory) – emission of formaldehyde testing

Place of sampling: warehouse of the manufacturer

Sampler: authorized representative of the manufacturer

Transport mode: manufacturer's transport mode

Sample registration number: XMIN2010010332CM (reaction to fire testing)

CAN20-186809-02 (emission of formaldehyde testing)

3. The assessment of performance on basis of testing, calculation, tabuled values, descriptive documentation

The assessment was carried out on basis of testing and written declaration made by the manufacturer.

3.1 The assessment on the basis of the testing

3.1.1. An inventory of tests reports/classification reports/written declarations

Reaction to fire classification report No. 080-023806 (PK-20-156) of 25.11.2020, issued by TZUS Prague, SOE., Branch 0800 – FIRE SAFETY

Test report No. CANMLC2018680902 of 20.11.2020, issued by SGS-CSTC Standards Technical Services Co., Ltd. - Guangzhou Branch – Chemical laboratory

Declaration – reaction to fire of 23.10.2020

Written declaration of the manufacturer on dangerous substances of 21.10.2020

Test results:

Table No. 1: LVT Panels

Characteristic	Obtained data value	Test report/Classification report No.
Reaction to fire (EN 13501-1:2018)	Reaction to fire class: B _{fl} -s1 Classification is valid for the following end use conditions: Flooring laid on the substrates of reaction to fire class A1 _{fl} or A2 _{fl}	080-023806(PK-20-156) *
Emission of formaldehyde (EN 717-1)	<0.08 mg/m ³ Class E1 according to Table No. 4 of EN 14041:2004/AC:2006 (E1 < 0.124 mg/m ³)	CANMLC2018680902

* Note: The manufacturer has submitted to the Notified Body a written Declaration of 23.10.2020 that no fire retardants were added to the products during the production process and the resulting reaction to fire classification was not intentionally improved.

4. Annexes

- 1) Reaction to fire classification report No. 080-023806 (PK-20-156) of 25.11.2020, issued by TZUS Prague, SOE., Branch 0800 – FIRE SAFETY
- 2) Test report No. CANMLC2018680902 of 20.11.2020, issued by SGS-CSTC Standards Technical Services Co., Ltd. - Guangzhou Branch – Chemical laboratory
- 3) Declaration – reaction to fire of 23.10.2020
- 4) Written declaration of the manufacturer on dangerous substances of 21.10.2020



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Certification Body No 3015 accredited by the CAI
according to the ČSN EN ISO/IEC 17065:2013
Certification schemes No. 1a by ČSN EN ISO/IEC 17067:2014
Branch 0800 – FIRE SAFETY

REACTION TO FIRE
REPORT

in accordance with EN 13501-1:2018

080-023816

Trade name:

DIAMOND RIGID LVT

type/ variation: **3,2 mm – 7 mm**

carried out on the basis of test report No. GZIN2010059319MR

Order No: Z 080200007
Classification report No.: PKP – 20 - 157

Prepared by: Technický a zkušební ústav stavební Praha, s.p.
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Date of issue: 25.11.2020

This document consists of 4 pages

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1. Introduction

1.1. This Classification Report determines the classification of a product called **DIAMOND RIGID LVT** in accordance with the procedures in EN 13501-1:2018.

1.2. Normative backgrounds:

- EN 13501-1: Fire classification of construction products and building structures - Part 1: Classification according to the results of reaction to fire tests (2018)
- ČSN EN ISO 9239-1: Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source (11/2010)
- ČSN EN ISO 11925-2: Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test (7/2020)
- ČSN EN 13238: Reaction to fire tests for building products – Conditioning procedures and general rules for selectin of substrates (6/2010)
- ČSN P CEN/TS 15117: Guidance on direct and extended application (2/2006)
- EN 14041:2004/AC:2006: Resilient, textile, laminate and modular multilayer floor coverings - Essential characteristics (2018)

2. Description of the construction product

2.1. Generally

Product - **DIAMOND RIGID LVT** is defined as floor coverings according to the EN 14041:2004/AC:2006.

2.2. Description

Floor covering **DIAMOND RIGID LVT** is made from PVC powder, stone powder, stabilizer and plasticizer.

Product thickness range: 3.2 mm ~ 7.0 mm

The manufacturer has submitted to the Notified Body a written Declaration of 23.10.2020 that no fire retardants were added to the products during the production process and the resulting reaction to fire classification was not intentionally improved.

The products **DIAMOND RIGID LVT** is fully described in the test report in support of classification listed in clause 3.

Always tested minimum and maximum thickness.

3. Protocols and results used for this classification

3.1. Protocols

Nr.	Name of the laboratory	Name of the customer	Protocol No. (Date of issue)	Test method and issue date Application rules area and date
1	SGS-CSTC Co., Ltd. Guangzhou Branch fire Technology Service		GZIN2010059319MR (2020-11-13)	EN ISO 11925-2:2020 EN ISO 9239:2010



3.2. Test results

	Test method	Parameter	Number of tests	Results		
				Continuous parameter – average	Compliance the parameters	
1	EN ISO 11925-2 exposure 15 s exposure of the edge	$F_s \leq 150$ mm during 20 s	12*	yes	meets	
		Ignition of filter paper		no	not classified	
	EN ISO 11925-2 exposure 15 s exposure of the area	$F_s \leq 150$ mm during 20 s	12*	yes	meets	
		Ignition of filter paper		no	not classified	
	EN ISO 9239-1	Smoke ≤ 750 (% x min)	12*	$CHF \geq 8,0$ kW/m ²	> 11	meets
					57	meets
				80		
				168		
			209			

*The minimum and maximum thickness were tested.

4. Classification and area of direct application

4.1. Classification links

This classification was carried out in accordance with EN 13501-1:2018.

4.2. Classification

The products **DIAMOND RIGID LVT** is classified according to their reaction to fire:

B_{fl}

The additional classification in relation to smoke production is:

s1

Additional classification according to burning droplets / particles:

no additional classification

Modification of the reaction to fire classification for construction products excluding floor coverings and thermal insulating products:

Fire behavior	Smoke production	Burning particles
B_{fl}	s 1	d not classified

Reaction to fire classification: B_{fl}-s1

4.3. Application area

This classification applies to the following parameters:

- the product described in paragraph 2
- DIAMOND RIGID LVT thickness 3.2 mm ~ 7.0 mm

Details of mounting and fixing:

- flooring laid or glued on the substrates of reaction to fire class A1_{fl} or A2_{fl}



5. Restrictions

This classification report is only valid as a whole, and each page must be provided by the identification number of the classification report, page number of the total number of pages and the stamp of the contractor.

This classification report does not replace any type approval or product certification.


The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.



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Prague, 25.11.2020