



GARIS, GARIS SD

GARIS 203-2



GARIS, GARIS SD

2 000 mm



203-2

280 E



952-2

981 E



881-2

881 E

203-2 Decor Number 280 Cord Color E Texture



2.0 mm 2,000 mm 3,050 g/m² 12 m, 23 m



1.5 mm 2,000 mm 2,300 g/m² 16 m



0.17 W/m.K ≥ 0.30 $\leq 0.1 \text{ mm}$ G Bf1-s1 NCS $\leq 10^9 \Omega$ $\leq 2,0 \text{ kV}$ ISO 22198



PUR 10 YEARS WARRANTY ISO 846 BACTERIOSTATIC

GARIS SD 952-2

DATA SHEET

Data Sheet No.: TL 5-580-2019/2

Issue No.: 2

Effective from: 05.08.2023

Uncontrolled printing

Homogeneous PVC floor covering GARIS

DESCRIPTION

GARIS homogeneous PVC floor covering in rolls with a PUR protective layer is subject to assessment according to Regulation No. 305/2011 of the European Parliament and of the Council and to the requirements of the harmonised standard EN 14041.

TECHNICAL CHARACTERISTICS

Parameter	Standard	Unit	Value	
Total thickness	EN ISO 24346	mm	1,5 (+0,13; -0,10)	2,0 (+0,13; -0,10)
Classification/level of use	EN ISO 10581	class	23, 32, 41	23, 34, 43
Width	EN ISO 24341	mm	1500 (+10, -0) 2000 (+10, -0)	
Length	EN ISO 24341	m	16	12
Total area weight*	EN ISO 23997	g/m ²	2300	3050
Dimensional stability	EN ISO 23999	%	≤ 0,4	
Curling after exposure to heat	EN ISO 23999	mm	≤ 8	
Flexibility	EN ISO 24344 method A	-	compliant	
Residual indentation	EN ISO 24343-1	mm	≤ 0,1	
Castor chair resistance	ISO 4918	-	compliant	
Color fastness to artificial light	EN 105-B02 method 3	degree	min. 6	
Seam strength	ISO 16906	N/50 mm	average value ≥ 240	
			individual values ≥ 180	
Reaction to fire	EN 13501-1	class	B _n -s1	
Formaldehyde emission	EN 717-1	class	E1	
Slip resistance	EN 13893	class	DS	
Thermal conductivity*	EN ISO 10456	W/m.K	0,17	
Stain resistance and chemical resistance	EN ISO 26987	-	compliant	
Anti-Slip	DIN 51130	group	R10	

*indicative value

ENVIRONMENT, SAFETY

Parameter	Standard	Unit	Value
Impact on the environment	ISO 14025	-	Environmental statement on the product (EPD)
Bacterial resistance	EN ISO 846 method C	-	compliant
VOC	ISO 16000-9	$\mu\text{g}/\text{m}^3$	≤ 10 (after 28 days)

PACKAGING

Dimension [mm]	Quantity per roll	
	[m]	[m ²]
1,5 x 1500	16	24
1,5 x 2000	16	32
2,0 x 1500	12	18
2,0 x 2000	12	24

FLOOR COVERING INSTALLATION

- The detailed procedure for the application of homogeneous PVC floor covering is given in the LINO Fatra PN 5410/97 laying code, available on the manufacturer's website
- The floor covering is laid by full-surface bonding with dispersion adhesives recommended by the manufacturer.
- It is not recommended to combine different production batches.

INSTRUCTIONS, TREATMENT, MAINTENANCE

- The flooring covering must be stored at a temperature of +5 °C to +35 °C in a dry and dust-free indoor area, min. 1 m from heat sources, protected from the effects of direct sunlight and artificial lighting with high UV component.
- The floor coverings are designed for interior use. Operating conditions of the floor covering: air temperature + 10 °C to + 35 °C, relative humidity (50 ± 10) %.
- Avoid moving objects on the installed floor covering that have sharp edges made of materials with a higher hardness than the floor covering surface.
- Rubber products in contact with the floor covering cause an irremovable colour change in the floor covering, which is manifested by yellowing, browning or even blackening of the floor covering surface at the point of contact with the rubber product.
- Provide furniture legs with suitable protective devices, e.g. soft plastic glides, fabric pads; use "W" type castors for wheeled chairs.
- If the surface of the PUR protective layer is scratched by moving furniture whose contact surfaces with the floor are not protected with suitable protective means, no claim can be made for this scratch.
- Information on the maintenance, treatment and cleaning of the floor covering is given in the LINO Fatra PN 5410/97 laying code, available on the manufacturer's website.

WARRANTIES

The terms and conditions for the extended 10-year warranty are listed on the website.

DECLARATION OF PERFORMANCE

NUMBER:558020192

GARIS

1.	Unique identification code of the product type	GARIS
2.	Intended use of construction product	Homogeneous PVC floor covering in rolls for use in the interior of buildings according to standard EN ISO 10581:2020
3.	Manufacturer	Fatra, a.s. třída Tomáše Bati 1541 763 61 Napajedla IČ: 27465021 DIČ: CZ27465021
4.	Authorised representative	Is not relevant
5.	System of assessment and verification of constancy	3
	Harmonised norm	EN 14041:2004/AC:2006
6.	Notified body	Textilní zkušební ústav, s.p. Václavská 6, Brno IČ:00013251 DIČ CZ00013251 Notified body no. 1021
7.	European assessment document	Is not relevant, the harmonised norm applies to the product

DECLARED PERFORMANCE

Parameter	Value	Norm
Reaction to fire	class B _{f1} -s1	EN 13501-1
Content of pentachlorophenol	NPD	EN 12673
Emission of formaldehyde	class E1	EN 717-1
Waterthightness	NPD	EN 13553
Slip resistance	class DS	EN 13893
Electrostatic properties	NPD	EN 1081
Thermal conductivity*	0,17 W/m.K	EN ISO 10456

DECLARATION OF PERFORMANCE

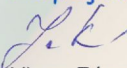
The performance of the product identifies above is in conformity with the set of declared performances.
This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by

Fatra, a.s. 024

třída Tomáše Bati 1541

763 61 Napajedla


Ing. Viera Zárecká
technician - quality
Napajedla, 15.12.2023

NPD = not performance determined
* informative value



TEXTILNÍ ZKUŠEBNÍ ÚSTAV, s.p.
(TEXTILE TESTING INSTITUTE)

CERTIFICATION BODY FOR THE CERTIFICATION OF PRODUCTS No. 3044
ACCREDITED BY CAI ACCORDING TO EN ISO/IEC 17065:2012
CEJL 480/12, ZÁBRDOVICE, 602 00 BRNO, CZECH REPUBLIC

issues

Manufacturer: **Fatra, a.s., třída Tomáše Bati 1541, 763 61 Napajedla, Czech Republic**
ID: 27465021

TYPE CERTIFICATE

No. 22 – 070/1



Product:

GARIS

Variant:

GARIS SD

Homogeneous vinyl floor covering

composition: Polyvinylchloride, total thickness: 1,5 - 2,0 mm

This Certificate guarantees conformity of this product with the following technical specifications:

- **EN ISO 10581:2020 Resilient floor coverings – Homogeneous poly(vinyl chloride) floor coverings – Specifications**

The product is classified for level of use to classes according to standard:

- **EN ISO 10874:2012/A1 Resilient, textile and laminate floor coverings – Classification:**
 - 21, 22, 23, 31, 32, 41 – 1,5 mm
 - 21, 22, 23, 31, 32, 33, 34, 41, 42, 43 – 2,0 mm


Certification system: Type testing (certification scheme COV TZÚ No. 1/01.04.2020
based on scheme 1b dle ČSN EN ISO /IEC 17067).

Certificate is issued within the scope of Certification Body accreditation. The base for the Certificate is the Final Protocol No. COV/22/185-1 of 30.06.2022 issued by Certification Body of Textile Testing Institute in Brno. Final Protocol is an inseparable part of the Certificate.

Validity up to: 31.07.2025

Certificate issued: Brno, 30.06.2022




Ing. Svatava Horáčková
Head of Certification Body



Textilní zkušební ústav, s.p.

TEXTILNÍ ZKUŠEBNÍ ÚSTAV, s.p.
(Textile Testing Institute)
Notified Body No. 1021
CEJL 480/12, ZÁBRDOVICE, 602 00 BRNO, ČESKÁ REPUBLIKA
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)

No.: 1021 – CPR – 19/118-1

Product: **GARIS**
Variants: **GARIS SD**
Homogeneous vinyl floor covering

Manufacturer: **Fatra a.s., třída Tomáše Bati 1541, 763 61 Napajedla, Czech Republic**
ID: 27465021

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)

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

Classification: **Reaction to fire** class **B_n – s1**
Formaldehyde emission class **E1**



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 Customer 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.

Contract No. of Inspection Activity: 1021/19/11, Annex No. 1
Number of pages: 5
Brno, 27.05.2019
Update 30.04.2021
Validity till: 26.05.2024


RNDr. Pavel Malčík
Managing Director





Textilní zkušební ústav, s.p.

NB 1021, Protocol: 1021-CPR-19/118-1

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1. Information about the assessed product

1.1 Information about the Manufacturer

Fatra a.s., třída Tomáše Bati 1541, 763 61 Napajedla, Czech Republic

ID: 27465021

1.2 Product description

GARIS (variant - GARIS SD) is a homogeneous vinyl floor covering with PUR surface. Floor covering is manufactured in strip wound on roll. The GARIS SD variant is manufactured as a static dissipative.

Construction parameters of the product (declaration of manufacturer):

Type:	1028
Material composition:	polyvinylchloride
Total thickness:	1,5 mm (+0,15 mm; -0,10 mm) 2,0 mm (+0,15 mm; -0,10 mm)
Total mass per unit area:	2,750 kg.m ⁻² (+13 %; -10 %)
Density:	1 475 kg.m ⁻³ (± 50 kg.m ⁻³)
Dimension of roll (width):	1 500 mm, 2000 mm (+10 mm; -0 mm)
Dimension of roll (length):	12 m, 16 m, 18 m, 20 m, 32 m

Tested samples: A) 1,5 mm/ B) 2,0 mm

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: Installation of floor **with of adhesive**.

Testing was performed on sample with use of dispersion adhesive.

The manufacturer declares that this product does not content any additives which can improve product behaviour from the point of reaction to fire.

The product is specified in the standard of manufacturer PND 5-580-2019. Installation shall be carried out according to specification describe in the standard of manufacturer.

2. Information about performance assessment

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 Resilient, textile and laminate floor coverings – Essential characteristics (art. 4.1, art. 4.3, art. 5.2, Annex ZA).





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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
- **EN 717-1:2004** Wood-based panels – Determination of formaldehyde release – Part 1: Formaldehyde emission by the chamber method

2.3 Testing results

2.3.1 Reaction to fire - results

Test results - reaction to fire (art. 4.1)

sample A) 1,5 mm

Testing method	Characteristic	Value identified				Results	
		longitudinal direction		transversal direction		Average continual parameter (m)	Parameter of fulfilment
		≥11	≥11	-	-		
EN ISO 9239-1	Critical heat flux (kW.m ⁻²)	≥11	≥11	-	-	-	(-)
	Smoke (% .minute)	15,4	13,7	-	-	-	

Test results - reaction to fire (art. 4.1)

sample B) 2,0 mm

Testing method	Characteristic	Value identified						Results	
		transversal direction			longitudinal direction			Average continual parameter (m)	Parameter of fulfilment
		yes	yes	yes	yes	yes	yes		
EN ISO 11925-2 exposure – 15 s	Flame spread: F _s ≤ 150 mm	yes	yes	yes	yes	yes	yes	(-)	yes
EN ISO 9239-1	Critical heat flux (kW.m ⁻²)	10,2	9,4	9,4	9,4	9,4	9,4	CHF 9,4	(-)
	Smoke (% .minute)	64,2	97,9	84,0	84,7	84,7	84,7	88,9	

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.





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2.3.2 Formaldehyde emission - results

Test 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 ... $> 0,124 \text{ mg/m}^3$	0,006 mg HCHO/m ³	E1

3. Classification of building product and area of direct application

3.1 Reaction to fire

The classification has been performed in compliance with the articles 12.6 (Class B_{f1}) and 12.9.2 (Class s1) of the standard EN 13501 (and art. 4.1.4 Classification of the standard EN 14041)

Testing method	Characteristic	Requirement	Value identified	Evaluation
EN ISO 11925-2 exposure – 15 s	Flame spread F _s	class B _{f1} F _s $\leq 150 \text{ mm}$	Flame didn't spread more than 150 mm	S
EN ISO 9239-1	Critical heat flux (kW.m ⁻²)	class B _{f1} $\geq 8 \text{ kW.m}^{-2}$	CHF 9,4	S
	Smoke (% .minute)	class s1 $\leq 750 \text{ %.minute}$	88,9	S

Legend: S - satisfy

Classification of the product according to reaction to fire:

On the basis of testing results the product shall be declared as class: **B_{f1}**

Additional classification according to smoke generation: **s1**

Modification of floor covering classification according to the reaction to fire: B_{f1} – s1

Behaviour during burning	Smoke generation
B_{f1}	s 1

3.1.1 Area of application

The present classification applies only for the assessed product with the above specified parameters (see art. 1.2 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 with use of dispersion 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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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 26.05.2024 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. 1021/19/118, No. 1021/21/065.
2. Standard of manufacturer PND 5-580-2019.
3. Test protocol issued by the accredited testing laboratory No. 1001 of TZÚ Brno:
 - No. AZL 19/0501-02 of 27.05.2019,
 - No. AZL 21/0203 of 24.03.2021.
4. Test report No. MVZ-A-2019-000960 of 16.05.2019, issued by the accredited testing laboratory No. 1031 of VVÚD Prague.

Protocol issued by:

Tomková
Lenka Tomková
Certification department

Protocol checked by:

Svatava Horáčková
Ing. Svatava Horáčková
Head of certification department

