



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

15568-10-1002

XPERtec Klebevinyl

Product group: Design floors - Vinyl - Floor coverings / Wall coverings



Pauckner GmbH
Max-Planck-Straße 35
59423 Unna



Product qualities:



Köttner

Helmut Köttner
Scientific Director
Freiburg, 22 June 2026



Product:










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SHI Product Assessment 2024

Since 2008, Sentinel Holding Institut GmbH (SHI) has been establishing a unique standard for products that support healthy indoor air. Experts carry out independent product assessments based on clear and transparent criteria. In addition, the independent testing company SGS regularly audits the processes and data accuracy.

Criteria	Product category	Harmful substance limit	Assessment
SHI Product Assessment	Other floor coverings	TVOC $\leq 160 \mu\text{g}/\text{m}^3$ Formaldehyd $\leq 10 \mu\text{g}/\text{m}^3$	Indoor Air Quality Certified
Valid until: 16 December 2027			



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QNG - Qualitätssiegel Nachhaltiges Gebäude

The Qualitätssiegel Nachhaltiges Gebäude (Quality Seal for Sustainable Buildings), developed by the German Federal Ministry for Housing, Urban Development and Building (BMWSB), defines requirements for the ecological, socio-cultural, and economic quality of buildings. The Sentinel Holding Institut evaluates construction products in accordance with QNG requirements for certification and awards the QNG ready label. Compliance with the QNG standard is a prerequisite for eligibility for the KfW funding programme. For certain product groups, the QNG currently has no specific requirements defined. Although classified as not assessment-relevant, these products remain suitable for QNG-certified projects.

Criteria	Pos. / product group	Considered substances	QNG assessment
3.1.3 Schadstoffvermeidung in Baumaterialien	2.2 Resilient floor coverings – including multilayer systems	VOC / Emissions / hazardous substances / polycyclic aromatic hydrocarbons (PAH) / SVHC / heavy metals	QNG ready

Verification: Herstellererklärung vom 21.05.2026. Prüfbericht eco-Institut Nr. 58967-A001-DIBt/ABG-L II vom 24.04.2024 in Verbindung mit Konformitätserklärung sowie Zertifikat eurofins Indoor Air Comfort Gold Nr. IACG 73-02-02-2025 vom 16.12.2025 in Verbindung mit Konformitätserklärung.



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DGNB New Construction 2023.2

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact	7 Elastische Bodenbeläge (innen)		Quality level 3

Verification: Herstellererklärung vom 21.05.2026. Prüfbericht eco-Institut Nr. 58967-A001-DIBt/ABG-L II vom 24.04.2024 in Verbindung mit Konformitätserklärung sowie Zertifikat eurofins Indoor Air Comfort Gold Nr. IACG 73-02-02-2025 vom 16.12.2025 in Verbindung mit Konformitätserklärung.



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DGNB New Construction 2023

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings. The 2023 version sets high standards for ecological, economic, socio-cultural, and functional aspects throughout the entire life cycle of a building.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition)	7 Floor coverings (Resilient floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3
Verification: Herstellererklärung vom 21.05.2026. Prüfbericht eco-Institut Nr. 58967-A001-DIBt/ABG-L II vom 24.04.2024 in Verbindung mit Konformitätserklärung sowie Zertifikat eurofins Indoor Air Comfort Gold Nr. IACG 73-02-02-2025 vom 16.12.2025 in Verbindung mit Konformitätserklärung.			

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	7 Floor coverings for indoor use (elastic floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3
Verification: Herstellererklärung vom 21.05.2026. Prüfbericht eco-Institut Nr. 58967-A001-DIBt/ABG-L II vom 24.04.2024 in Verbindung mit Konformitätserklärung sowie Zertifikat eurofins Indoor Air Comfort Gold Nr. IACG 73-02-02-2025 vom 16.12.2025 in Verbindung mit Konformitätserklärung.			



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DGNB New Construction 2018

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact	7 Floor coverings (Resilient floor coverings)	VOC / SVOC / hazardous substances	Quality level 4
Verification: Herstellererklärung vom 21.05.2026. Prüfbericht eco-Institut Nr. 58967-A001-DIBt/ABG-L II vom 24.04.2024 in Verbindung mit Konformitätserklärung sowie Zertifikat eurofins Indoor Air Comfort Gold Nr. IACG 73-02-02-2025 vom 16.12.2025 in Verbindung mit Konformitätserklärung.			



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BNB-BN Neubau V2015

The Bewertungssystem Nachhaltiges Bauen (Assessment System for Sustainable Building) is a tool for evaluating public office and administrative buildings, educational facilities, laboratory buildings, and outdoor areas in Germany. The BNB was developed by the former Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) and is now overseen by the Federal Ministry for Housing, Urban Development and Building (BMWSB).

Criteria	Pos. / product type	Considered substance group	Quality level
1.1.6 Risiken für die lokale Umwelt	2a Elastic floor coverings – with and without bonded underlay or insulation layer	VOC / hazardous substances / heavy metals	Quality level 3

Verification: Herstellererklärung vom 21.05.2026. Prüfbericht eco-Institut Nr. 58967-A001-DIBt/ABG-L II vom 24.04.2024 in Verbindung mit Konformitätserklärung sowie Zertifikat eurofins Indoor Air Comfort Gold Nr. IACG 73-02-02-2025 vom 16.12.2025 in Verbindung mit Konformitätserklärung.



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EU taxonomy

The EU Taxonomy classifies economic activities and products according to their environmental impact. At the product level, the EU regulation defines clear requirements for harmful substances, formaldehyde and volatile organic compounds (VOCs). The Sentinel Holding Institut GmbH labels qualified products that meet this standard.

Criteria	Product type	Considered substances	Assessment
DNSH - Pollution prevention and control	Floor coverings (including associated adhesives and sealants)	Substances according to Annex C, formaldehyde, carcinogenic VOCs category 1A/1B	EU taxonomy compliant

Verification: Herstellererklärung vom 21.05.2026. Prüfbericht eco-Institut Nr. 58967-A001-DIBt/ABG-L II vom 24.04.2024 in Verbindung mit Konformitätserklärung sowie Zertifikat eurofins Indoor Air Comfort Gold Nr. IACG 73-02-02-2025 vom 16.12.2025 in Verbindung mit Konformitätserklärung.



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BREEAM DE Neubau 2018

BREEAM (Building Research Establishment Environmental Assessment Methodology) is a UK-based building assessment system that evaluates the sustainability of new constructions, refurbishments, and conversions. Developed by the Building Research Establishment (BRE), the system aims to assess and improve the environmental, economic, and social performance of buildings.

Criteria	Product category	Considered substances	Quality level
Hea 02 Indoor Air Quality	Flooring materials (including floor levelling compounds and resin flooring)	Emissions: Formaldehyde, TVOC, TSVOC, carcinogens	Exemplary quality

Verification: Prüfbericht eco-Institut Nr. 58967-A001-DIBt/ABG-L II vom 24.04.2024 in Verbindung mit Konformitätserklärung sowie Zertifikat eurofins Indoor Air Comfort Gold Nr. IACG 73-02-02-2025 vom 16.12.2025 in Verbindung mit Konformitätserklärung.



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LEED v4.1

LEED (Leadership in Energy and Environmental Design) is an internationally recognised building certification system developed by the U.S. Green Building Council. It is one of the most widely used sustainability standards for buildings worldwide and is particularly applied in internationally oriented projects. LEED assesses buildings holistically across categories such as energy efficiency, resource conservation, material selection, indoor environmental quality and site sustainability. Depending on the number of points achieved, projects are awarded one of the certification levels: LEED Certified, Silver, Gold or Platinum.

Criteria	Product category	Considered substances	Assessment
EQ Credit: Low-Emitting Materials	Bodenbeläge	Emissionen: Formaldehyd, VOC, Krebserregende Stoffe	compliant

Verification: Prüfbericht eco-Institut Nr. 58967-A001-DIBt/ABG-L II vom 24.04.2024 in Verbindung mit Konformitätserklärung sowie Zertifikat eurofins Indoor Air Comfort Gold Nr. IACG 73-02-02-2025 vom 16.12.2025 in Verbindung mit Konformitätserklärung.



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Product labels

In the construction industry, high-quality materials are crucial for a building's indoor air quality and sustainability. Product labels and certificates offer guidance to meet these requirements. However, the evaluation criteria of these labels vary, and it is important to carefully assess them to ensure products align with the specific needs of a construction project.



Products bearing the Sentinel Holding Institute QNG-ready seal are suitable for projects aiming to achieve the "Qualitätssiegel Nachhaltiges Gebäude" (Quality Seal for Sustainable Buildings). QNG-ready products meet the requirements of QNG Appendix Document 3.1.3, "Avoidance of Harmful Substances in Building Materials." The KfW loan program Climate-Friendly New Construction with QNG may allow for additional funding.



This product is SHI Indoor Air Quality certified and recommended by Sentinel Holding Institut. Indoor-air-focused construction, renovation, and operation of buildings is made possible by transparent and verifiable criteria thanks to the Sentinel Holding concept.



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Legal notices

(*) These criteria apply to the construction project as a whole. While individual products can positively contribute to the overall building score through proper planning, the evaluation is always conducted at the building level. The information was provided entirely by the manufacturer.

Find our criteria here: <https://www.sentinel-holding.eu/de/Themenwelten/Pr%C3%BCfverfahren%20f%C3%BCr%20Produkte>

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Produktinformationen XPERtec Wood

Paketinhalt	4,459 m ²
Maße	1219,2 x 228,6 x 2,5 mm
Planken pro Paket	16 Stück
Style	Landhausdielen
Oberflächenstruktur	Synchronprägung
Nutzschicht	0,5 mm
Verlegeart	Vollflächige Verklebung
Nutzungsstufe	Bis Nutzungsstufe 42 normale industrielle Nutzung
Fußbodenheizung	Warmwasser-Fußbodenheizung geeignet, bis 27°C
Feuchtraumeignung	Ja

Technische Daten

Beschreibung	Norm	Ergebnis
Dimensionsstabilität	ISO 10582	✓
Brandverhalten	EN 14041	Bfl, s1
Gleitwiderstand	EN 13893	DS
Wärmedurchlasswiderstand	EN 12664	0,034 m ² K/W
Wärmeleitfähigkeit	EN 12664	0,075 W/(mK)
Formaldehyd-Emissionen	EN717-1	E1
Pentachlorphenol (PCP)	EN 14904	<1 ppm
Elektrostatisches Verhalten	EN 1815	0,1 kV
Emissionsklasse (French VOC)	EN 14041	A+
Stuhlleneignung	ISO 4918	Keine Beschädigungen

Produktinformationen XPERtec Herringbone

Paketinhalt	2,787 m ²
Maße	609,6 x 152,4 x 2,5 mm
Planken pro Paket	30 Stück
Style	Fischgrät
Oberflächenstruktur	Synchronprägung
Nutzschicht	0,5 mm
Verlegeart	Vollflächige Verklebung
Nutzungsklasse	Bis Nutzungsklasse 42 normale industrielle Nutzung
Fußbodenheizung	Warmwasser-Fußbodenheizung geeignet, bis 27°C
Feuchtraumeignung	Ja

Technische Daten

Beschreibung	Norm	Ergebnis
Dimensionsstabilität	ISO 10582	✓
Brandverhalten	EN 14041	Bfl, s1
Gleitwiderstand	EN 13893	DS
Wärmedurchlasswiderstand	EN 12664	0,034 m ² K/W
Wärmeleitfähigkeit	EN 12664	0,075 W/(mK)
Formaldehyd-Emissionen	EN717-1	E1
Pentachlorphenol (PCP)	EN 14904	<1 ppm
Elektrostatisches Verhalten	EN 1815	0,1 kV
Emissionsklasse (French VOC)	EN 14041	A+
Stuhlleneignung	ISO 4918	Keine Beschädigungen

Produktinformationen XPERtec Stone

Paketinhalt	4,181 m ²
Maße	914,4 x 457,2 x 2,5 mm
Planken pro Paket	10 Stück
Style	Fliese
Oberflächenstruktur	Strukturprägung
Nutzschicht	0,5 mm
Verlegeart	Vollflächige Verklebung
Nutzungsklasse	Bis Nutzungsklasse 42 normale industrielle Nutzung
Fußbodenheizung	Warmwasser-Fußbodenheizung geeignet, bis 27°C
Feuchtraumeignung	Ja

Technische Daten

Beschreibung	Norm	Ergebnis
Dimensionsstabilität	ISO 10582	✓
Brandverhalten	EN 14041	Bfl, s1
Gleitwiderstand	EN 13893	DS
Wärmedurchlasswiderstand	EN 12664	0,034 m ² K/W
Wärmeleitfähigkeit	EN 12664	0,075 W/(mK)
Formaldehyd-Emissionen	EN717-1	E1
Pentachlorphenol (PCP)	EN 14904	<1 ppm
Elektrostatisches Verhalten	EN 1815	0,1 kV
Emissionsklasse (French VOC)	EN 14041	A+
Stuhlleneignung	ISO 4918	Keine Beschädigungen (Typ W)



Pauckner GmbH
Max-Planck-Straße 35
DE-59423 Unna

Unna, den 21.05.2026

Herstellereklärung

Wir, die Pauckner GmbH, bestätigen hiermit, dass unsere Vinylböden gemäß den uns vorliegenden Hersteller- und Prüfunterlagen die Anforderungen der REACH-Verordnung erfüllen und folgende Kriterien eingehalten werden:

- SVHC-Stoffe < 0,1 %
- CMR-Stoffe der Kategorie 1A und 1B < 0,1 %
- reproduktionstoxische Phthalate < 0,1 %
- Chlorparaffine (SCCPs, MCCPs und LCCPs) < 0,1 %
- keine Zinn-, Cadmium- und Bleistabilisatoren

Mit freundlichen Grüßen

Timo Pauckner (Geschäftsführung)