SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

14607-10-1033

solidLOCK silent

Product group: Design floors - Floor coverings / Wall coverings

Repac PROFESSIONAL

Repac Montagetechnik GmbH & Co. KG
Ronnenberger Straße 15
30989 Gehrden

Product qualities:

- SHI Product Assessment 2024
- QNG Qualitätssiegel Nachhaltiges Gebäude
- DGNB NEW CONSTRUCTION 2023.2
- DGNB NEW CONSTRUCTION 2023
- DGNB NEW CONSTRUCTION 2018
- BNB-BN NEUBAU V2015
- EU TAXONOMY
- BREEAM DE NEUBAU 2018
- LEED v4.1 (outside US)

CERTIFIED SUSTAINABLE PRODUCT
SHI PRODUCT PASSPORT
SENTINEL HOLDING INSTITUT
www.sentinel-holding.eu

Köttner

Helmut Köttner
Scientific Director
Freiburg, 17 August 2026

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The SHI Database is the first and only database for construction products whose comprehensive processes and data accuracy are regularly verified by the independent auditing company SGS-TÜV Saar

SGS TÜV SAAR

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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 ≤ 160 µg/m^3 Formaldehyd ≤ 10 µg/m^3	Indoor Air Quality Certified
Valid untill: 13 October 2028			

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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: Eurofins Indoor Air Comfort Gold Zertifikat vom 13.10.2023 (Zertifikats Nr. IACG-396-01-01-2023). Herstellererklärung vom 29.01.2025.			

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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			Not relevant for assessment

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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: Eurofins Indoor Air Comfort Gold Zertifikat vom 13.10.2023 (Zertifikats Nr. IACG-396-01-01-2023). Herstellererklärung vom 29.01.2025.			

Criteria	Assessment
SOC1.2 Indoor air quality (*)	May positively contribute to the overall building score
Verification: SHI Schadstoffgeprüft	

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: Eurofins Indoor Air Comfort Gold Zertifikat vom 13.10.2023 (Zertifikats Nr. IACG-396-01-01-2023). Herstellererklärung vom 29.01.2025.			

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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: Eurofins Indoor Air Comfort Gold Zertifikat vom 13.10.2023 (Zertifikats Nr. IACG-396-01-01-2023). Herstellererklärung vom 29.01.2025.			

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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: Eurofins Indoor Air Comfort Gold Zertifikat vom 13.10.2023 (Zertifikats Nr. IACG-396-01-01-2023). Herstellererklärung vom 29.01.2025.			

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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)	Stoffe nach Anlage C, Formaldehyd, Karzinogene VOC Kategorie 1A/1B	compliant
Verification: Eurofins Indoor Air Comfort Gold Zertifikat vom 13.10.2023 (Zertifikats Nr. IACG-396-01-01-2023). Herstellererklärung vom 29.01.2025.			

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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: Eurofins Indoor Air Comfort Gold Zertifikat vom 13.10.2023 (Zertifikats Nr. IACG-396-01-01-2023). Herstellererklärung vom 29.01.2025.			

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SHI Product Passport no.:
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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: Eurofins Indoor Air Comfort Gold Zertifikat vom 13.10.2023 (Zertifikats Nr. IACG-396-01-01-2023). Herstellererklärung vom 29.01.2025.			

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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.

Eurofins Indoor Air Comfort® confirms compliance with requirements for low VOC emissions. The standard level covers all mandatory VOC regulations in the EU, while the Gold level additionally takes into account emission criteria from voluntary ecolabels and building certifications.

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.

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.

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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%BCfkriterien%20f%C3%BCr%20Produkte

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www.sentinel-holding.eu

Technische Daten

solidLOCK silent 50-03
Legend Oak

Produktspezifikation

Belagsart nach ISO 10582	Heterogenes PVC
ISO 14001	√
ISO 9001	√
ISO 24340 Nutzschicht	0,30 mm + Polyurethan
ISO 24346 Gesamtstärke	4,0 mm + 1,0 mm IXPE
ISO 23997 Flächengewicht	+/- 7,680 kg/m²
ISO23999 Dimensionsstabilität	In Längsrichtung: -0.01%
	In Querrichtung: +0.01%
EN 1081 Durchgangswiderstand	Horizontal: 7.9 x 10^{11} Ω
	Vertikal: 11.5 x 10^{12} Ω
EN 1815 Elektrostatisches Verhalten	Gummi-Testschuh: -0,6 kV
ISO 10140-1 Maximale Schalldämmung	ΔL_w 13 dB
ISO 354 Maximale Schallabsorption	δs 0.05
EN 12667 / ISO 8302 Wärmedurchlasswiderstand	0,0124 m²K/W
EN 13501-1 - 1:2007 Brandverhalten	Bfl-s1
ISO 24343-1 Resteindruck	0.08 mm
ISO 4918 Stuhlrollenbeanspruchung	√
EN 13893 Rutschhemmung	0.5 mμ (R9)
ISO 10582 Beanspruchungsklasse	23 - intensive private Nutzung
	31 - leicht gewerbliche Nutzung
ISO 24344A Biegsamkeit	-
ISO 26987 Cheimikalienbeständigkeit	Klasse O - Gut
EN 71 Toxität	Nicht toxisch
EN ISO 105 B02 Lichtechtheit	6-8 abhängig vom Design
Fußbodenheizung	28 °C √
Format Diele	121,00 x 22,80 cm
Verpackungseinheit	8 Dielen / 2,21 m²

ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

ISO 9001 QUALITY SYSTEM

ISO 14001 QUALITY SYSTEM

Technische Daten

solidLOCK silent 50-03
Modern Concrete

Produktspezifikation

Belagsart nach ISO 10582	Heterogenes PVC
ISO 14001	√
ISO 9001	√
ISO 24340 Nutzschicht	0,30 mm + Polyurethan
ISO 24346 Gesamtstärke	4,0 mm + 1,0 mm IXPE
ISO 23997 Flächengewicht	+/- 7,680 kg/m²
ISO23999 Dimensionsstabilität	In Längsrichtung: -0.01%
	In Querrichtung: +0.01%
EN 1081 Durchgangswiderstand	Horizontal: 7.9 x 10^{11} Ω
	Vertikal: 11.5 x 10^{12} Ω
EN 1815 Elektrostatisches Verhalten	Gummi-Testschuh: -0,6 kV
ISO 10140-1 Maximale Schalldämmung	ΔL_w 13 dB
ISO 354 Maximale Schallabsorption	δs 0.05
EN 12667 / ISO 8302 Wärmedurchlasswiderstand	0,0124 m²K/W
EN 13501-1 - 1:2007 Brandverhalten	Bfl-s1
ISO 24343-1 Resteindruck	0.08 mm
ISO 4918 Stuhlrollenbeanspruchung	√
EN 13893 Rutschhemmung	0.5 mμ (R9)
ISO 10582 Beanspruchungsklasse	23 - intensive private Nutzung
	31 - leicht gewerbliche Nutzung
ISO 24344A Biegsamkeit	-
ISO 26987 Cheimikalienbeständigkeit	Klasse O - Gut
EN 71 Toxität	Nicht toxisch
EN ISO 105 B02 Lichtechtheit	6-8 abhängig vom Design
Fußbodenheizung	28 °C √
Format Diele	90,70 x 45,00 cm
Verpackungseinheit	6 Fliesen / 2,45 m²

ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

ISO 9001 QUALITY SYSTEM

ISO 14001 QUALITY SYSTEM

Technische Daten

solidLOCK 50-03
Nuance silent

Produktspezifikation

Belagsart nach ISO 10582	Heterogenes PVC
ISO 14001	√
ISO 9001	√
ISO 24340 Nutzschicht	0,30 mm + Polyurethan
ISO 24346 Gesamtstärke	4,0 mm + 1,0 mm IXPE
ISO 23997 Flächengewicht	+/- 7,680 kg/m²
ISO23999 Dimensionsstabilität	In Längsrichtung: -0.01%
	In Querrichtung: +0.01%
EN 1081 Durchgangswiderstand	Horizontal: 7.9 x 10^{11} Ω
	Vertikal: 11.5 x 10^{12} Ω
EN 1815 Elektrostatisches Verhalten	Gummi-Testschuh: -0,6 kV
ISO 10140-1 Maximale Schalldämmung	ΔL_w 13 dB
ISO 354 Maximale Schallabsorption	δs 0.05
EN 12667 / ISO 8302 Wärmedurchlasswiderstand	0,0124 m²K/W
EN 13501-1 - 1:2007 Brandverhalten	Bfl-s1
ISO 24343-1 Resteindruck	0.08 mm
ISO 4918 Stuhlrollenbeanspruchung	√
EN 13893 Rutschhemmung	0.5 mμ (R9)
ISO 10582 Beanspruchungsklasse	23 - intensive private Nutzung
	31 - leicht gewerbliche Nutzung
ISO 24344A Biegsamkeit	-
ISO 26987 Cheimikalienbeständigkeit	Klasse O - Gut
EN 71 Toxität	Nicht toxisch
EN ISO 105 B02 Lichtechtheit	6-8 abhängig vom Design
Fußbodenheizung	28 °C √
Format Diele	90,70 x 45,00 cm
Verpackungseinheit	6 Fliesen / 2,45 m²

ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

ISO 9001 QUALITY SYSTEM

ISO 14001 QUALITY SYSTEM

Technische Daten

solidLOCK 50-05
Fresh Oak Authentic

Produktspezifikation

Belagsart nach ISO 10582	Heterogenes PVC
ISO 14001	√
ISO 9001	√
ISO 24340 Nutzschicht	0,55 mm + Polyurethan
ISO 24346 Gesamtstärke	5,0 mm (inkl. 1,0 mm IXPE)
ISO 23997 Flächengewicht	+/- 7,130 kg/m²
ISO23999 Dimensionsstabilität	≤ 1,0 mm
EN 1815 Elektrostatisches Verhalten	Gummi-Testschuh: 0,6 kV
ISO 10140-1 Maximale Schalldämmung	bis zu 19 dB
ISO 354 Maximale Schallabsorption	δs 0.05
EN 12667 / ISO 8302 Wärmedurchlasswiderstand	0,0124 m²K/W
EN 13501-1 - 1:2007 Brandverhalten	Bfl-s1
ISO 24343-1 Resteindruck	≤ 0,1 mm
ISO 4918 Stuhlrollenbeanspruchung	√
EN 13893 Rutschhemmung	R9
ISO 10582 Beanspruchungsklasse	23 - intensive private Nutzung
	33 - intensive gewerbliche Nutzung
ISO 24344A Biegsamkeit	-
ISO 26987 Cheimikalienbeständigkeit	Klasse O - Gut
EN 71 Toxität	Nicht toxisch
EN ISO 105 B02 Lichtechtheit	6-8 abhängig vom Design
Fußbodenheizung	28 °C √
Format Diele	121,00 x 22,80 cm
Verpackungseinheit	8 Dielen / 2,21 m²

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Technische Daten

solidLOCK silent 44-03
Legend Oak

Produktspezifikation

Belagsart nach ISO 10582	Heterogenes PVC
ISO 14001	√
ISO 9001	√
ISO 24340 Nutzschicht	0,3 mm + Polyurethan
ISO 24346 Gesamtstärke	4,4 mm (inkl. 1,0 mm IXPE)
ISO 23997 Flächengewicht	+/- 7,110 kg/m²
ISO23999 Dimensionsstabilität	In Längsrichtung: 0.15%
	In Querrichtung: 0.15%
EN 1081 Durchgangswiderstand	Horizontal: 8.1 x 10^{11} Ω
	Vertikal: 9.4 x 10^{12} Ω
EN 1815 Elektrostatisches Verhalten	Gummi-Testschuh: -1,8 kV
ISO 10140-1 Maximale Schalldämmung	19 dB
ISO 354 Maximale Schallabsorption	δs 0.05
EN 12667 / ISO 8302 Wärmedurchlasswiderstand	0,0165 m²K/W
EN 13501-1 - 1:2007 Brandverhalten	Bfl-s1
ISO 24343-1 Resteindruck	≤ 0.10 mm
ISO 4918 Stuhlrollenbeanspruchung	√
EN 13893 Rutschhemmung	0.4 mμ (R9)
ISO 10582 Beanspruchungsklasse	23 - intensive private Nutzung
	31 - leicht gewerbliche Nutzung
ISO 24344A Biegsamkeit	-
ISO 26987 Cheimikalienbeständigkeit	Klasse O - Gut
EN 71 Toxität	Nicht toxisch
EN ISO 105 B02 Lichtechtheit	6-8 abhängig vom Design
Fußbodenheizung	28 °C √
Format Diele	121,00 x 22,80 cm
Verpackungseinheit	12 Dielen / 3,34 m²

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Technische Daten

solidLOCK silent 50-05
Prime Oak

Technische Daten	Norm	solidLOCK silent 50-05
Belagsart	ISO 10581	Heterogenes PVC
Format Planke	-	1210,00 x 228,00 mm
Verpackungsinhalt	-	8 Planken / 2,21 m²
Nutzschichtstärke	ISO 24340	0,55 mm
Gesamtstärke	ISO 24346	5,0 mm (inkl. 1,0 mm IXPE)
Flächengewicht	ISO 23997	+/- 7,680 kg/m²
Fase	-	4V
Dimensionsstabilität	ISO 23999	Δ W +0.01 % / Δ L -0.01 %
Durchgangswiderstand	EN 1081	Horizontal: 7.9 x 10^{11} Ω Vertikal: 11.5 x 10^{12} Ω
Elektrostatisches Verhalten	EN 1815	-0,6 kV
Maximale Schalldämmung	ISO 10140-1	bis zu 19 dB
Maximale Schallabsorption	ISO 354	δs 0.05
Wärmedurchlasswiderstand	EN 12667 / ISO 8302	≤ 0,014 m²K/W
Brandverhalten	EN 13501-1 - 1:2007	Bfl-s1
Resteindruck	ISO 24343-1	0,08 mm
Stuhlrollenbeanspruchung	ISO 4918	ja (Typ W)
Rutschhemmung	EN 13893	0,5 mμ (R9)
Nutzungsklasse	ISO 10582	
Chemikalienbeständigkeit	ISO 26987	Klasse O - Gut
Toxizität	EN 71-3	Nicht-toxisch
Phthalatfrei	-	ja
Lichtechtheit	EN ISO 105 B02	6-8 abhg. vom Design
Fußbodenheizung	-	28 °C

Herstellererklärung

29.01.2025

Sehr geehrte Damen und Herren,

hiermit bestätigen wir, dass bei der Produktion unserer aktuellen Designbodenkollektionen unter Einhaltung des AgBB-Schemas von folgenden Inhaltsstoffen abgesehen wird:

1) SVHC und CMR-Stoffe der Kategorie 1A und 1B < 0,1%

2) Reproduktionstoxische Phthalate < 0,1% und Cadmium-, Zinn- und Bleistabilisatoren

3) Chlorparaffine (SCCPs + MCCPs + LCCPs) < 0,1%

Mit freundlichen Grüßen

Produktmanagement Boden

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