SENTINEL HOLDING
INSTITUT

# SHI PRODUCT PASSPORT

**Find products. Certify buildings.**

SHI Product Passport No.:

**14326-10-1032**

# LOGOCLIC SILENTOS

Product group: Laminate - Floor coverings / Wall coverings

LOGOCLIC®

LOGOCLIC / BAUHAUS
Gutenbergstraße 21
68167 Mannheim

## 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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Product:
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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 | Wood-based floor coverings | TVOC ≤ 300 µg/m³<br>Formaldehyd ≤ 36 µg/m³ | Indoor Air Quality Certified |
| **Valid untill: 05 February 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 | 2.3 Multi-layer wood parquet, bamboo coverings, and floor coverings on wood-based panels | VOC / Emissions / hazardous substances | QNG ready |
| **Verification:** TÜV PROFiCERT-product Interior PREMIUM Zertifikat vom 02.02.2024 (Nr. 70 720 5789-1) | | | |

| Criteria | Assessment |
|---|---|
| ANF2-WG1 Nachhaltige Materialgewinnung | May positively contribute to the overall building score |
| **Verification:** Technisches Datenblatt Stand 10/2024 | |

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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 | 47c Parkette, Laminatböden, MMF- und WPC-Bödenbeläge (innen) | VVOC, VOC, SVOC Emissionen und Gehalt an gefährlichen Stoffen | Quality level 3 |
| **Verification:** TÜV PROFiCERT-product Interior PREMIUM Zertifikat vom 02.02.2024 (Nr. 70 720 5789-1) | | | |

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

| Criteria | Quality level |
|---|---|
| ENV1.3 Responsible resource extraction | May positively contribute to the overall building score |
| **Verification:** Technisches Datenblatt Stand 10/2024 | |

| Criteria | No. / Relevant building components / construction materials / surfaces | Considered substances / aspects | Quality level |
|---|---|---|---|
| ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition) | 47c Wood-based materials in floor coverings | VVOCs, VOC, SVOC emissions and content of hazardous substances | Quality level 4 |
| **Verification:** TÜV PROFiCERT-product Interior PREMIUM Zertifikat vom 02.02.2024 (Nr. 70 720 5789-1) | | | |

| Criteria | No. / Relevant building components / construction materials / surfaces | Considered substances / aspects | Quality level |
|---|---|---|---|
| ENV 1.2 Local environmental impact, 29.05.2025 (4th edition) | 47c Floor coverings for indoor use (with wooden components) | VVOCs, VOC, SVOC emissions and content of hazardous substances | Quality level 4 |
| **Verification:** TÜV PROFiCERT-product Interior PREMIUM Zertifikat vom 02.02.2024 (Nr. 70 720 5789-1) | | | |

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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 | 47a Industrially manufactured products | Formaldehyde | Quality level 4 |
| **Verification:** TÜV PROFiCERT-product Interior PREMIUM Zertifikat vom 02.02.2024 (Nr. 70 720 5789-1) | | | |

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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 | 2b Wood-based floor coverings – also systems | VOC / hazardous substances | Quality level 5 |
| **Verification:** Technisches Datenblatt Stand 10/2024 | | | |

| Criteria | Assessment |
|---|---|
| 1.1.7 Nachhaltige Materialgewinnung | May positively contribute to the overall building score |
| **Verification:** Technisches Datenblatt Stand 10/2024 | |

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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:** TÜV PROFiCERT-product Interior PREMIUM Zertifikat vom 02.02.2024 (Nr. 70 720 5789-1) | | | |

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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:** TÜV PROFiCERT-product Interior PREMIUM Zertifikat vom 02.02.2024 (Nr. 2117133/2024/1) | | | |

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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:** TÜV PROFiCERT-product Interior PREMIUM Zertifikat vom 02.02.2024 (Nr. 2117133/2024/1) | | | |

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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.

"TÜV PROFiCERT-product Interior" is a certification procedure developed for interior products. The certification is carried out according to strict TÜV health and quality criteria. The PREMIUM variant requires particularly low emission levels.

The *Blue Angel* ("Blauer Engel") ecolabel, awarded by the German Federal Environment Agency, is one of the oldest and most widely used ecolabels in Germany. It exists in several variants for many different product groups. Since the test criteria, such as threshold values, differ between these variants, it is important to consider each one individually when assessing indoor air quality.

The PEFC label certifies wood and wood products from sustainably managed forests and requires, among other things, legal origin, protection of forest ecosystems, and social minimum standards in forestry. Environmental organisations consider PEFC's criteria to be less strict than those of FSC, particularly regarding the protection of sensitive forest areas. Health-related aspects of the final product are not part of the PEFC assessment.

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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## Publisher

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info@sentinel-holding.eu
www.sentinel-holding.eu

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# SILENTOS

1285 x 192 x 7+2 mm

PAKET: 8 PANEELE | 1,97 m² | 14 kg

www.blauer-engel.de/uz176

| | |
|---|---|
| Trägermaterial: | HDF, E1 quellarm verleimt<br>Dichte 830 – 900 kg/m³ |
| Trittschall: | 2 mm |
| Dekorschicht: | 0,2 mm |

PEFC/04-31-0546

www.pefc.de

Gemäß EN 13329 geeignet für alle Wohnbereiche mit intensiver Nutzung und für gewerbliche Bereiche mit geringer oder zeitweiser Nutzung

Empfohlen durch das SENTINEL HAUS INSTITUT

| DIMENSIONEN | | | | |
|---|---|---|---|---|
| Format | Dicke | 7+2 ± 0,50 mm · dmax - dmin ≤ 0,80 mm | | |
| | Länge | 1285 ± 0,50 mm | | |
| | Breite | 192 ± 0,10 mm · bmax - bmin ≤ 0,20 mm | | |
| Profil | längs | twin click | quer | twin click |

| TOLERANZEN | | |
|---|---|---|
| Rechtwinkligkeit | EN 13329 | ≤ 0,20 mm |
| Kantengeradheit | EN 13329 | ≤ 0,30 mm |
| Querwölbung | EN 13329 | konkav: ≤ 0,15% · konvex: ≤ 0,20% |
| Längswölbung | EN 13329 | konkav: ≤ 0,50% · konvex: ≤ 1,00% |
| Fugenöffnung | EN 13329 | Mittelwert: ≤ 0,15 mm · Maximum: ≤ 0,20 mm |
| Höhenversatz | EN 13329 | Mittelwert: ≤ 0,10 mm · Maximum: ≤ 0,15 mm |
| Riegelversatz | | ± 2 mm |

| PRÜFUNGEN | | | |
|---|---|---|---|
| Abriebbeanspruchung | | EN 13329 | AC3 (≥ 2000 Umdr.) |
| Stoßbeanspruchung | | EN 13329 | kleine Kugel ≥ 8 N · große Kugel ≥ 500 mm |
| Fleckunempfindlichkeit | Gruppe 1 & 2 | EN 13329 | Grad 5 |
| | Gruppe 3 | | ≥ Grad 4 |
| Stuhlrollenversuch | | EN 13329 | keine sichtbaren Veränderungen oder Schäden wie in EN 425:2002 definiert |
| Auswirkung eines Möbelfußes | | EN 13329 | keine sichtbare Veränderung bei Prüfung mit Fuß Typ 0 |
| Dickenquellung | | EN 13329 | ≤ 18% |
| Resteindruck | | EN 13329 | ≤ 0,05 mm |
| Lichtechtheit | | EN 13329 | Graumaßstabsstufe ≥ 4 bei Typverfärbung 6 des Blaumaßstabes |
| Maßänderungen nach Änderungen der relativen Luftfeuchte | | EN 13329 | längs ≤ 0,9 mm · quer ≤ 0,9 mm |
| Abhebefestigkeit | | EN 13329 | ≥ 1,0 N/mm² |

| UMWELTEIGENSCHAFTEN | | |
|---|---|---|
| Formaldehydemission | | Klasse E1 |

| PHYSIKALISCHE EIGENSCHAFTEN | | |
|---|---|---|
| Brandverhalten | EN 13501-1 | Cfl s1 |
| Gleitwiderstand | EN 13893 | Technische Klasse DS |
| Wärmedurchlasswiderstand | EN 12667 | 0,103 (m²K)/W ± 15% |
| Wärmeleitfähigkeit | EN 12664 | 0,084 W/(m*K) ± 15% |

15 Jahre ** GARANTIE

23/31 EN 13329 NUTZUNGSKLASSE

7+2 mm STÄRKE

CLIC-SYSTEM

GEEIGNET FÜR FUSSBODENHEIZUNG

ca. -50% ca. -25% *** EXTREM LEISE

* Angabe über den Grad der Emission von flüchtigen Substanzen in der Raumluft, die ein toxisches Risiko beim Einatmen darstellen, auf einer Skala A+ (sehr emissionsarm) bis C (hohe Emissionen). www.eco-institut.de/de/portfolio/emissions-dans-lair-interieur/

** Im Wohnbereich. Ausführliche Garantiebedingungen: www.logoclic.info *** Die Reduktion des Tritt- und Gehschallwertes ist abhängig von der Untergrundbeschaffenheit.

Preferred by Nature™

PEFC/01-44-49

ANSI National Accreditation Board ACCREDITED ISO/IEC 17065 PRODUCT CERTIFICATION BODY ACCREDITATION ID #9125

Preferred by Nature OÜ hereby confirms that
the Chain of Custody system of

# Kronoflooring GmbH Lampertswalde

Mühlbacher Straße 1
01561 Lampertswalde
Germany

has been assessed and certified as meeting the requirements of
PEFC ST 2001:2020; PEFC ST 2002:2020

The certificate is valid from
24 May 2021 to 23 May 2026
Certificate version date: 23 August 2022

## Scope of certificate
Certificate type: Single Chain of Custody

## Certificate registration code
PBN-PEFC-COC-054330

Justinas Janulaitis
Management board member
Filosoofi 31, Tartu
Estonia

Preferred by Nature OÜ accreditation is issued by ANAB (Accreditation ID# 9125).

Specific information regarding products and sites is listed in the appendix(es) of this certificate.
Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required PEFC claim is clearly stated on delivery documents. The physical printed certificate remains the property of Preferred by Nature OÜ and shall be returned upon request.

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## Annex A: Scope of Kronoflooring GmbH Lampertswalde PEFC Chain of Custody Certificate
## PBN-PEFC-COC-054330

| Product Type | PEFC Claims | CoC Method | Input Material Category |
|---|---|---|---|
| 050603 - Dämmplatten | x% PEFC Certified | Physical separation | Certified material |
| 090304 - Laminatboden | x% PEFC Certified | Percentage Method | Certified material |
| 090304 - Parkett | x% PEFC Certified | Percentage Method | Certified material |
| 090307 - Paneele/Kasetten | x% PEFC Certified | Percentage Method | Certified material |
| 090307 - Sockelleisten | x% PEFC Certified | Percentage Method | Certified material |

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