SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

14362-10-1000

TWG Landhausdiele 13,2 x 181

Product group: Parquet

Thalhofer Holzzentren GmbH & Co. KG
Schildbachstraße 10
86489 Deisenhausen

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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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/m^3 Formaldehyd ≤ 36 µg/m^3	Indoor Air Quality Certified
Valid untill: 30 September 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: Blauer Engel Zertifikat vom 19.05.2022. Übereinstimmungserklärung vom 31.07.2024			

Criteria	Assessment
ANF2-WG1 Nachhaltige Materialgewinnung	May positively contribute to the overall building score
Verification: FSC Zertifikat vom 20.10.2023	

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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: Blauer Engel Zertifikat vom 19.05.2022. Übereinstimmungserklärung vom 31.07.2024			

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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)	47c Wood-based materials in floor coverings	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 4
Verification: Blauer Engel Zertifikat vom 19.05.2022. Übereinstimmungserklärung vom 31.07.2024			

Criteria	Quality level
ENV1.3 Responsible resource extraction	May positively contribute to the overall building score
Verification: FSC Zertifikat vom 20.10.2023	

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

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: Blauer Engel Zertifikat vom 19.05.2022. Übereinstimmungserklärung vom 31.07.2024			

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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: Blauer Engel Zertifikat vom 19.05.2022. Übereinstimmungserklärung vom 31.07.2024			

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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: Blauer Engel Zertifikat vom 19.05.2022. Übereinstimmungserklärung vom 31.07.2024			

Criteria	Assessment
1.1.7 Nachhaltige Materialgewinnung	May positively contribute to the overall building score
Verification: FSC Zertifikat vom 20.10.2023	

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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: Blauer Engel Zertifikat vom 19.05.2022. Übereinstimmungserklärung vom 31.07.2024			

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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: Gutachten von des eco-INSTITUTS vom 22.02.2024 (Gutachten Nr. 58543-A001-A016-elL-G). Übereinstimmungserklärung vom 31.07.2024

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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: Gutachten von des eco-INSTITUTS vom 22.02.2024 (Gutachten Nr. 58543-A001-A016-elL-G). Übereinstimmungserklärung vom 31.07.2024			

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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.



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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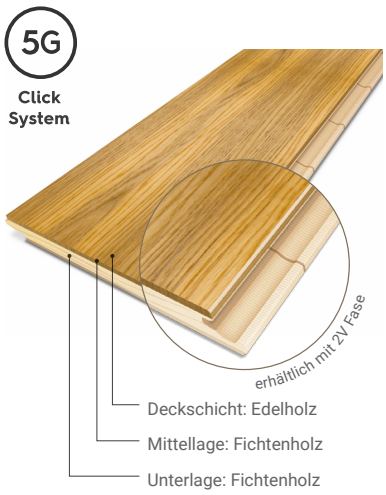
TWG Landhausdiele 181

13,2 mm Click

TECHNISCHE DATEN	
Produziert nach:	Europäische Parkettnorm EN 13489 - 2017
Dielenformat:	13,2 x 181 x 2200 mm
Deckschicht:	ca. 2,7 mm
Aufbau	3-schichtig; Deckschicht aus Edelholz, Mittel- und Unterlage aus Fichtenholz Deckschicht: ca. 2,7 mm Mittellage: 8,8 mm Unterlage: 1,7 mm
Dielen Anzahl/m² pro Paket:	8/3,19
Paket Anzahl/m² pro Palette:	40/127,60
Anzahl Elemente mit fallenden Längen pro Paket/kürzeste Länge in mm:	1/600
Gewicht pro Paket/Palette in kg:	23/920
Fußbodenheizung:	Gut bis sehr gut geeignet
Brandverhalten[1]:	Dfl-s1
Formaldehydabgabe[2]:	E1
Gehalt an Pentachlorphenol (PCP)[2]:	nicht nachweisbar
Dichte kg/m³ [2]:	ca. 600
Rutschverhalten:	Live Matt USRV 33 [6] R9 [7] Live Natural geschliffen USRV 59 [6] R10 [7] Live Natural gebürstet USRV 45 [6] R10 [7] Live Pure gebürstet USRV 91 [6] R11 [7]
Abriebfestigkeit:	Live Matt 70/1100 [3] Live Matt 100 [4]
Wärmeleitfähigkeit [2]:	0,15 W/ (m·K)
Wärmedurchlasswiderstand [5]:	0,093m² · K/W

[1] nach DIN EN 13501-1, [2] nach DIN 14342, [3] nach ENV 13696, [4] nach DIN 68861, [5] nach EN 12524, [6] nach CEN/TS 15676, [7] nach DIN EN 51130





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DOP 4658

BOEN AS EN 14342