



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

15333-10-1040

Casella sl - Echtholzfußboden

Product group: Floor coverings / Wall coverings - Parquet



ZIPSE GmbH & Co. KG / ZIRO
Tullastraße 26
79341 Kenzingen



Product qualities:



Köttner

Helmut Köttner
Scientific Director
Freiburg, 06 July 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 $\leq 300 \mu\text{g}/\text{m}^3$ Formaldehyd $\leq 36 \mu\text{g}/\text{m}^3$	Indoor Air Quality Certified
Valid untill: 04 March 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	2.3 Multi-layer wood parquet, bamboo coverings, and floor coverings on wood-based panels	VOC / Emissions / hazardous substances	QNG ready

Verification: Emissionsprüfbericht des Instituts Entwicklungs- und Prüflabor Holztechnologie GmbH vom 26.11.2025 (Nr. 2525444/1). Herstellererklärung vom Juni 2026.



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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 4
Verification: Emissionsprüfbericht des Instituts Entwicklungs- und Prüflabor Holztechnologie GmbH vom 26.11.2025 (Nr. 2525444/1).			



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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	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: Emissionsprüfbericht des Instituts Entwicklungs- und Prüflabor Holztechnologie GmbH vom 26.11.2025 (Nr. 2525444/1).			

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: Emissionsprüfbericht des Instituts Entwicklungs- und Prüflabor Holztechnologie GmbH vom 26.11.2025 (Nr. 2525444/1).			



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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: Emissionsprüfbericht des Instituts Entwicklungs- und Prüflabor Holztechnologie GmbH vom 26.11.2025 (Nr. 2525444/1).			



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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 4

Verification: Emissionsprüfbericht des Instituts Entwicklungs- und Prüflabor Holztechnologie GmbH vom 26.11.2025 (Nr. 2525444/1). Herstellererklärung vom 11.02.2026.



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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	compliant

Verification: Emissionsprüfbericht des Instituts Entwicklungs- und Prüflabor Holztechnologie GmbH vom 26.11.2025 (Nr. 2525444/1). Herstellererklärung vom 11.02.2026.



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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: Emissionsprüfbericht des Instituts Entwicklungs- und Prüflabor Holztechnologie GmbH vom 26.11.2025 (Nr. 2525444/1).			



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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: Emissionsprüfbericht des Instituts Entwicklungs- und Prüflabor Holztechnologie GmbH vom 26.11.2025 (Nr. 2525444/1).



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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.



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/kriterien%20f%C3%BCr%20Produkte>

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casella SL - Europa

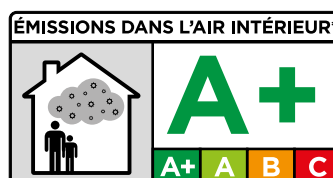


1-Stab Landhausdielen in 14 / 15 mm

Technische Daten		
Dielen-Formate	L = 1.900 mm B = 190 mm H = 14 mm	L = 2.200 mm B = 260 mm H= 15 mm
Kartoninhalt	8 Stk./2,888 m²	6 Stk./3,168 m²
Paletteninhalt	40 Krt./115,52 m²	36 Krt./114,048 m²
Oberfläche	Oxidativ geölt	
Auflage	3,0 mm	4,0 mm
Träger	9,0 mm Pappel/Nadelholz	
Gegenzug	2,0 mm Pappel/Nadelholz	
Kanten- bearbeitung	Längsgefast oder 4-seitig gefast	
Verlegeart	Leimlose Klick-Technik/Stirnseite Drop Down	
Prüfwerte		
Brandverhalten (EN 4102 • EN-ISO 9239-1)	Dfl-s1	
Flächengewicht	7.700 g/m²	
Fußbodenheizungs- geeignet	Ja (Warmwasser-Fußbodenheizung)	
Wärmedurchgangs- widerstand (DIN-EN 51612-Teil 1)	0,12 m² x K/W	
Entsorgung	Hausmüll	



MADE IN EUROPE



holzloc

Stand: Januar 2025

1-Stab Eiche-Landhausdielen und 3-Stab Schiffsböden
mit seidenmatt lackierter oder Naturöl-Oberfläche



Technische Daten	
Dielen-Format	2.200 x 192 x 14 mm
Kartoninhalt	6 Dielen/2,534 m ²
Paletteninhalt	35 Kartons/88,69 m ²
Oberfläche	8-fach seidenmatt versiegelt oder mit luftgetrockneter Naturöloberfläche
Auflagenstärke	3,4 mm
Mittellage	8,6 mm (Nordische Fichte)
Gegenzug	2,0 mm (Nordische Fichte)
Verbindungstechnik	2 G/5 G (3-Stab Schiffsböden) 5 G (1-Stab Eiche-Landhausdielen & 3-Stab Eiche-Schiffsböden)
Prüfwerte	
Brandverhalten (EN 4102 • EN-ISO 9239-1)	Dfl-s1
Flächengewicht	7.040 g/m ²
Fußbodenheizungsgeeignet	Ja (Warmwasser-Fußbodenheizung; außer Holzart Buche)
Wärmedurchgangswiderstand (DIN EN 52612 Teil 1)	0,11 m ² x K/W
Entsorgung	Hausmüll

