SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

15133-10-1005

JANGAL Straw Floor

Product group: Parquet - Design floors

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Koczwara Vertriebs-GmbH
Scheuten-Solar-Str. 2
45881 Gelsenkirchen

Product qualities:

- 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

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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: Prüfbericht des Eco-Instituts vom 12.06.2026 (Nr. 60903-A001-1). Herstellererklärung vom 24.06.2026.			

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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 3

Verification: Prüfbericht des Eco-Instituts vom 12.06.2026 (Nr. 60903-A001-1). PVC ist kein Produktbestandteil.

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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: Prüfbericht des Eco-Instituts vom 12.06.2026 (Nr. 60903-A001-1). PVC ist kein Produktbestandteil.			

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: Prüfbericht des Eco-Instituts vom 12.06.2026 (Nr. 60903-A001-1). PVC ist kein Produktbestandteil.			

Criteria	Assessment
ECO1.1 Life cycle cost (*)	May positively contribute to the overall building score
Verification: Nachweis durch pflegeleichte Instandhaltung (Pflegeanleitung) sowie die hohe mechanische Dauerhaftigkeit und Formstabilität des Strohträgers.	

Criteria	Assessment
SOC1.1 Thermal comfort (*)	May positively contribute to the overall building score
Verification: Kennwerte im Datenblatt deklariert (Wärmeleitfähigkeit 0,199 / Wärmewiderstand 0,0533). Eignung für Fußbodenheizungen bis 27°C in der Verlegeanleitung dokumentiert.	

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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: Prüfbericht des Eco-Instituts vom 12.06.2026 (Nr. 60903-A001-1).			

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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 3
Verification: Prüfbericht des Eco-Instituts vom 12.06.2026 (Nr. 60903-A001-1). Herstellererklärung vom 24.06.2026.			

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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)	Stoffe nach Anlage C, Formaldehyd, Karzinogene VOC Kategorie 1A/1B	compliant
Verification: Prüfbericht des Eco-Instituts vom 12.06.2026 (Nr. 60903-A001-1). Herstellererklärung vom 24.06.2026.			

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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: Prüfbericht des Eco-Instituts vom 12.06.2026 (Nr. 60903-A001-1).

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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: Prüfbericht des Eco-Instituts vom 12.06.2026 (Nr. 60903-A001-1).			

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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.



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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SGS TÜV SAAR

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Clicksystem	Loc-Click (Angle-Angle)
Oberflächenstruktur	tief gebürstet (deep brushed)
Oberflächenbehandung	UV-Lack
Echtholz-Nutzschicht	1mm
Glanzgrad	5-8 (stumpfmatt - matt)
Sortierung	lebhaft
Dichte	≈ 1.170 kg/m³
Fuge	4V-Fuge
Maße	1200 x 190 x 11mm
Paketinhalt (VPE)	6 Stück = 1,368 m²
Palettengröße	52 VPE = 71,136 m²
Gewicht	16,5 kg/VPE

Technische Daten/durchgeführte Prüfungen:

Prüfung	**Eigenschaft**	**Prüfnorm**
Rutschhemmung	R9	EN 16165:
Brandverhalten	Bfl, s1	EN 13501-1
Biegefestigkeit	≥70 Mpa	EN 408
Rechtwinkligkeit	q max. ≤ 0.15 mm	EN 13329
Geradheit der Oberfläche	s max. ≤ 0.20 mm/m	EN 13329
Ebenheit der Elemente	f w, ≤ 0.10 % f l, ≤ 0.50 %	EN 13329
Öffnungen zwischen Elementen	Ø ≤ 0.15 mm max. ≤ 0.20 mm	EN 13330
Höhenunterschied zwischen Elementen	Ø ≤ 0.10 mm max. ≤ 0.15 mm	EN 13331
Feuchtigkeitsgehalt	7,40%	-
Verschleißfestigkeit	≤ 0.07 g / 100 r	ISO 7784-2
Mikrokratzfestigkeit, Verfahren A	≤ MSR-A2	EN16094
Haftzugfestigkeit	Kennwert 2	ISO 2409
Resteindruck	0,1 mm	EN ISO 24343-1
Fleckenbeständigkeit	Grade 5	EN 438-2
Verriegelungsfestigkeit	≥ 2.5 kN/m	ISO 24334
Dickenquellung	3,50%	EN 13329
Maßstabilität nach Wärmeeinwirkung	0.21 mm	EN 13329
Beständigkeit gegen Stoßbeanspruchung	✓	EN 13329
Formaldehydemission / CARB II	≤ 0,02 ppm = ENF E1 < E0 < CARB II < ENF	EN 717-1
Schwermetallmigration	✓	EN 71-3
TVOC	A+	French VOC Regulation
Stuhlrollen geeignet	✓	EN 425:2002
PCP	≤ 5ppm	EN 14041
Lichtecht	Grad 6	EN ISO 105-B02
Wärmeleitfähigkeit	0,199 W/(mK)	
Wärmedurchlasswiderstand	0,0553 (m²K)/W	
REACH	✓	
Verschieben eines Möbelfußes	Keine sichtbaren Veränderungen	EN 424

Alle angegebenen Werte sind Richtwerte.
Produktionsbedingte Schwankungen sind nicht auszuschließen.

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Herstellererklärung über die Schadstofffreiheit gemäß REACH-Verordnung JANGAL Straw-Produkte

Wir, die Koczwara Vertriebs-GmbH erklären hiermit, dass unsere Straw-Produkte (JANGAL Straw Floor und JANGAL Straw Board) schadstofffrei gemäß REACH-Verordnung sind und somit folgende Produktanforderungen erfüllen:

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

Gelsenkirchen, 24.06.2026

Andreas Koczwara (Geschäftsführer)
Koczwara Vertriebs-GmbH