SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

15133-10-1004

JANGAL Straw Board

Product group: Panel products - Fire-resistant building boards - Cement boards

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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, 16 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			QNG ready - Not relevant for assessment

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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	47d Produkte aus Holzwerkstoffen (innen)	VVOC, VOC, SVOC Emissionen	Quality level 4

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

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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)	47d Products made of wood-based materials	VVOC, VOC, SVOC emissions	Quality level 4
Verification: Prüfbericht des Eco-Instituts vom 12.06.2026 (Nr. 60903-A001-1).			

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	47d Products made of wood-based materials	VVOC, VOC, SVOC emissions	Quality level 4
Verification: Prüfbericht des Eco-Instituts vom 12.06.2026 (Nr. 60903-A001-1).			

Criteria	Assessment
ECO1.1 Life cycle cost (*)	May positively contribute to the overall building score
Verification: Reduzierte Lebenszykluskosten dank Langlebigkeit und Formstabilität des mineralischen Strohkerns (nur 1,8% Quellwert nach EN 317). Nachweis im Datenblatt/Prüfbericht.“	

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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			Not relevant for assessment

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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			Not relevant for assessment

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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	Sonstige	Stoffe nach Anlage C	compliant
Verification: 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	Ceiling, wall, and acoustic and thermal insulation materials	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	Wand- und Deckenelemente	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.

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

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Maße	2440 x 1220 x 8mm
Gewicht	32 kg/Stück
Dichte	≈ 1.350 kg/m³

Technische Daten/durchgeführte Prüfungen:

Prüfung	Eigenschaft	Prüfnorm
Biegefestigkeit	22.3 N/mm²	EN 310
E-Modul	6848 N/mm²	EN 310
Querzugfestigkeit	3.72 N/mm²	EN 319
Schraubenausziehwiderstand	110 N/mm²	EN 320
Feuchtigkeitsgehalt	7.5 %	ISO 16979
Dickenquellung	1.8 %	EN 317
Dichte	1350 kg/m³	EN 323
Formaldehydemmision	unter Nachweisgrenze	EN 717-1
Brandverhalten	Bfl - s1**	EN 13501-1

** Ergebnis im Holzverbund, Testung steht noch aus

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