



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

15402-10-1002

ESTIVAL Vinyl – Designbelag mit WPC-Trägerplatte (Klickvinyl)

Product group: Vinyl



ESTIVAL Vinyl GmbH
Bahnhofstr. 12
29690 Schwarmstedt



Product qualities:












Köttner

Helmut Köttner
Scientific Director
Freiburg, 24 June 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	Other products	TVOC $\leq 300 \mu\text{g}/\text{m}^3$ Formaldehyd $\leq 24 \mu\text{g}/\text{m}^3$	Indoor Air Quality Certified
Valid until: 15 June 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	2.2 Resilient floor coverings – including multilayer systems	VOC / Emissions / hazardous substances / polycyclic aromatic hydrocarbons (PAH) / SVHC / heavy metals	QNG ready
Verification: Prüfbericht des Labors UL Solutions vom 09.07.2024 (Nr. 1002349952-7294892). Herstellererklärung vom 18.05.2026			



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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	7 Elastische Bodenbeläge (innen)		Quality level 3
Verification: Prüfbericht des Labors UL Solutions vom 09.07.2024 (Nr. 1002349952-7294892). Herstellererklärung vom 18.05.2026			



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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)	7 Floor coverings (Resilient floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3
Verification: Prüfbericht des Labors UL Solutions vom 09.07.2024 (Nr. 1002349952-7294892). Herstellererklärung vom 18.05.2026			

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	7 Floor coverings for indoor use (elastic floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3
Verification: Prüfbericht des Labors UL Solutions vom 09.07.2024 (Nr. 1002349952-7294892). Herstellererklärung vom 18.05.2026			

Criteria	Assessment
SOC1.3 Sound insulation and acoustic comfort (*)	May positively contribute to the overall building score
Verification: Sound Insulation Test Report	



Criteria	Assessment
SOC2.1 Barrier-free design (*)	May positively contribute to the overall building score
Verification: Slip Resistance Report	



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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	7 Floor coverings (Resilient floor coverings)	VOC / SVOC / hazardous substances	Quality level 4

Verification: Prüfbericht des Labors UL Solutions vom 09.07.2024 (Nr. 1002349952-7294892). Herstellererklärung vom 18.05.2026



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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	2a Elastic floor coverings – with and without bonded underlay or insulation layer	VOC / hazardous substances / heavy metals	Quality level 3

Verification: Prüfbericht des Labors UL Solutions vom 09.07.2024 (Nr. 1002349952-7294892). Herstellererklärung vom 18.05.2026



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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: Prüfbericht des Labors UL Solutions vom 09.07.2024 (Nr. 1002349952-7294892). Herstellererklärung vom 18.05.2026			



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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 Labors UL Solutions vom 09.07.2024 (Nr. 1002349952-7294892)



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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 Labors UL Solutions vom 09.07.2024 (Nr. 1002349952-7294892)



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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%BCfverfahren%20f%C3%BCr%20Produkte>

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Ebenbild - Estival

Technisches Datenblatt

ESTIVAL Vinyl GmbH
 Bahnhofstrasse 12
 29690 Schwarmstedt

	NORM	WPC8055
KLASSIFIZIERUNG		
Art	EN ISO 10582 (EN 649)	Heterogener Bodenbelag kompakt
Nutzung im Privatbereich/ gewerblichen Bereich	EN ISO 10874 (EN 685)	23/33
Brandschutzklassen	 EN 13501-1	B _{fl} -s1
PRODUKTDIMENSIONEN		
Format (in mm)	 EN ISO 24342 (EN 427)	1220 x 230 mm 1830 x 230 mm
Planken / Paket		8 / 2,24 m ² 6 / 2,52 m ²
Verbindungssystem		Valinge 2G
Oberflächenbehandlung		PUR
Gesamtdicke	 EN ISO 24346 (EN 428)	8,00 mm
Dicke der Nutzschicht	 EN ISO 24340 (EN 429)	0,55mm
Gesamtgewicht	 EN ISO 23997 (EN 430)	8.96 kg/m ²

TECHNISCHE MERKMALE

Dimensionsstabilität bei Wärme		EN ISO 23999 (EN 434) 70°C6h	≤ 0,20 %
Resteindruck		EN ISO 24343-1 (EN 433)	≤ 0,10 mm
MöbelfüÙe		EN 424	keine Beschädigung
Stuhlrollenbeanspruchung		ISO 4918	keine Beschädigung
Trittschall		EN ISO 717-2	$\Delta L_w = 19\text{dB}$
Farbechtheit		EN ISO 105-B02	≥ 6
Wärmeleitfähigkeit		EN 14041 ISO 8302	0,07 m ² .K/W (für Fußboden- heizung geeignet, max 27°C)
Verschleißfestigkeit		EN 660-2	Gruppe T
Rutschfestigkeit		EN 14041 / EN 13893 DIN 51130	DS (≥ 0,30) R 10
Emmissionen von TVOC (nach 28 Tagen)		EN ISO 16000-06	≤ 10µg/m ³
CE-Kennzeichnung			19 EN 14041: 2005 N° DOP 24-1212

5-18-2026

RE: CONFORMITY STATEMENT

To Whom It May Concern:

This is to certify that the Luxury Vinyl Tile (LVT), Stone Plastic Composite (SPC), and Wood Plastic Composite (WPC) as manufactured by Taizhou Huali New Materials Co., Ltd. in China, with distributions to Germany, between 2025-2026, conform to below requirements, and that product composition has not changed since certification.

PVC flooring / elastic flooring	SVHC < 0.10%
	CMR substances of category 1A/1B < 0.10%
	Reprotoxic phthalates < 0.10%
	No tin, cadmium, or lead stabilizers
	Chlorinated paraffins (SCCPs + MCCPs + LCCPs) < 0.10%

If you have any questions, please feel free to contact me.

Best regards,



Jeff Cao, Ph.D.

VP, Quality and Operations

Taizhou Huali New Materials Co., Ltd.

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