



# SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

**15402-10-1000**

## ESTIVAL LVT Dryback

Product group: Vinyl - Design floors



ESTIVAL Vinyl GmbH  
Bahnhofstr. 12  
29690 Schwarmstedt



### Product qualities:



*Köttner*  
Helmut Köttner  
Scientific Director  
Freiburg, 19 March 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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## 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 floor coverings	TVOC $\leq 160 \mu\text{g}/\text{m}^3$ Formaldehyd $\leq 10 \mu\text{g}/\text{m}^3$	Indoor Air Quality Certified
Valid until: 09 July 2026			



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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
<b>Verification:</b> Prüfbericht des Labors UL Solutions vom 09.07.2024 (Nr. 1002349955-7294895). Herstellererklärung vom 24.10.2025			



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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. 1002349955-7294895).  
Herstellereklärung vom 24.10.2025

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. 1002349955-7294895).  
Herstellereklärung vom 24.10.2025



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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. 1002349955-7294895).  
Herstellereklärung vom 24.10.2025



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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. 1002349955-7294895).  
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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	EU taxonomy compliant

**Verification:** Prüfbericht des Labors UL Solutions vom 09.07.2024 (Nr. 1002349955-7294895). Herstellererklärung vom 24.10.2025



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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. 1002349955-7294895).



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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	Assessment
EQ Credit: Low-Emitting Materials	Bodenbeläge	compliant
<b>Verification:</b> Prüfbericht des Labors UL Solutions vom 09.07.2024 (Nr. 1002349955-7294895).		



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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.

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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.

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Find our criteria here: <https://www.sentinel-holding.eu/de/Themenwelten/Pr%C3%BCfverfahren/kriterien%20of%20Pr%C3%BCf%20Produkte>

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### Publisher

Sentinel Holding Institut GmbH  
Bötzingen Str. 38  
79111 Freiburg im Breisgau  
Germany  
Tel.: +49 761 590 481-70  
[info@sentinel-holding.eu](mailto:info@sentinel-holding.eu)  
[www.sentinel-holding.eu](http://www.sentinel-holding.eu)



# E BENBILD

## VINYLBODEN

### TECHNISCHE DATEN

		D2030	D2555	R5030A	R5055A	
Klassen	ART	EN ISO 10582 (EN 649)	Heterogener Bodenbelag kompakt	Heterogener Bodenbelag kompakt	Heterogener Bodenbelag kompakt mit akustischer Unterlage	Heterogener Bodenbelag kompakt mit akustischer Unterlage
	NUTZUNGSKLASSEN IM PRIVAT- & GEWERBLICHEN BEREICH	EN ISO 10874 (EN 685)	23 / 31	23 / 33 23 / 42	23 / 31	23 / 33
	BRANDSCHUTZKLASSEN	EN 13501-1	B <sub>fl</sub> -s1	B <sub>fl</sub> -s1	B <sub>fl</sub> -s1	B <sub>fl</sub> -s1
Produktdimensionen	FORMAT (IN MM)	EN ISO 24342 (EN 427)	1219,2 x 152,4	1219,2 x 152,4 (Holz) 609,6 x 304,8 (Fliese)	1220 x 180	1220 x 180 (Holz) 603 x 305 (Fliese)
	PLANKEN/PAKET		20 / 3,710 m <sup>2</sup>	18 / 3,340 m <sup>2</sup> (Holz) 18 / 3,340 m <sup>2</sup> (Fliese)	8 / 1,750 m <sup>2</sup>	8 / 1,750 m <sup>2</sup> (Holz) 10 / 1,839 m <sup>2</sup> (Fliese)
	OBERFLÄCHENBEHANDLUNG		PUR	PUR	PUR	PUR
	GESAMTDICKE	EN ISO 24346 (EN 428)	2,00 mm	2,50 mm	5,00 mm	5,00 mm
	DICKE DER NUTZSCHICHT	EN ISO 24340 (EN 429)	0,30 mm	0,55 mm	0,30 mm	0,55 mm
GESAMTGEWICHT	EN ISO 23997 (EN 430)	3,40 kg/m <sup>2</sup>	4,36 kg/m <sup>2</sup>	9,02 kg/m <sup>2</sup>	9,38 kg/m <sup>2</sup>	
Technische Merkmale	DIMENSIONSSTABILITÄT BEI WÄRME	EN ISO 23999 (EN 434)	≤ 0,25 %	≤ 0,25 %	≤ 0,15 %	≤ 0,15 %
	RESTEINDRUCK	EN ISO 24343-1 (EN 433)	≤ 0,10 mm	≤ 0,10 mm	≤ 0,20 mm	≤ 0,15 mm
	MÖBELFÜSSE	EN 424	keine Beschädigung	keine Beschädigung	keine Beschädigung	keine Beschädigung
	STUHLROLLEN-BEANSPRUCHUNG	ISO 4918	keine Beschädigung	keine Beschädigung	keine Beschädigung	keine Beschädigung
	TRITTSCHALL	EN ISO 717-2	ΔLw = 2 dB	ΔLw = 4 dB	ΔLw = 19 dB	ΔLw = 19 dB
	FARBECHTHEIT	EN ISO 105-B02	≥ 6	≥ 6	≥ 6	≥ 6
	WÄRMELEITFÄHIGKEIT	EN 14041 ISO 8302	0,07 m <sup>2</sup> .K/W (für Fußbodenheizung geeignet, max 27°C)	0,07 m <sup>2</sup> .K/W (für Fußbodenheizung geeignet, max 27°C)	0,04 m <sup>2</sup> .K/W (für Fußbodenheizung geeignet, max 27°C)	0,04 m <sup>2</sup> .K/W (für Fußbodenheizung geeignet, max 27°C)
	VERSCHLEISSFESTIGKEIT	EN 660-2	Gruppe T	Gruppe T	Gruppe T	Gruppe T
	RUTSCHFESTIGKEIT	EN 14041 EN 13893 DIN 51130	DS (≥ 0,30) R 10	DS (≥ 0,30) R 10	DS (≥ 0,30) R 10	DS (≥ 0,30) R 10
	EMISSIONEN VON TVOC (NACH 28 TAGEN)	EN ISO 16000-06	≤ 10µg/m <sup>3</sup>	≤ 10µg/m <sup>3</sup>	≤ 10µg/m <sup>3</sup>	≤ 10µg/m <sup>3</sup>
CE-KENNZEICHNUNG		19 EN 14041: 2005 N° DOP 018-2019-01	16 EN 14041: 2005 N° DOP 007-2016-09	21 EN 14041: 2005 N° DOP 026-2021-04	21 EN 14041: 2005 N° DOP 027-2021-11	

## TECHNISCHE DATEN

		D2030	D2555	R5030A	R5055A	
Klassen	ART	EN ISO 10582 (EN 649)	Heterogener Bodenbelag kompakt	Heterogener Bodenbelag kompakt mit akustischer Unterlage	Heterogener Bodenbelag kompakt mit akustischer Unterlage	
	NUTZUNGSKLASSEN IM PRIVAT- & GEWERBLICHEN BEREICH	EN ISO 10874 (EN 685)	23 / 31	23 / 33 23 / 42	23 / 31	23 / 33
	BRANDSCHUTZKLASSEN	 EN 13501-1	B <sub>fl</sub> -s1	B <sub>fl</sub> -s1	B <sub>fl</sub> -s1	B <sub>fl</sub> -s1
Produktdimensionen	FORMAT (IN MM)	 EN ISO 24342 (EN 427)	1219,2 x 228,6	1219,2 x 228,6	1220 x 230	1220 x 230
	PLANKEN/PAKET		12 / 3,340 m <sup>2</sup>	12 / 3,340 m <sup>2</sup>	8 / 2,240 m <sup>2</sup>	8 / 2,240 m <sup>2</sup>
	OBERFLÄCHENBEHANDLUNG		PUR	PUR	PUR	PUR
	GESAMTDICKE	 EN ISO 24346 (EN 428)	2,00 mm	2,50 mm	5,00 mm	5,00 mm
	DICKE DER NUTZSCHICHT	 EN ISO 24340 (EN 429)	0,30 mm	0,55 mm	0,30 mm	0,55 mm
	GESAMTGEWICHT	 EN ISO 23997 (EN 430)	3,40 kg/m <sup>2</sup>	4,36 kg/m <sup>2</sup>	9,02 kg/m <sup>2</sup>	9,38 kg/m <sup>2</sup>
Technische Merkmale	DIMENSIONSSTABILITÄT BEI WÄRME	 EN ISO 23999 (EN 434)	≤ 0,25 %	≤ 0,25 %	≤ 0,15 %	≤ 0,15 %
	RESTEINDRUCK	 EN ISO 24343-1 (EN 433)	≤ 0,10 mm	≤ 0,10 mm	≤ 0,20 mm	≤ 0,15 mm
	MÖBELFÜSSE	 EN 424	keine Beschädigung	keine Beschädigung	keine Beschädigung	keine Beschädigung
	STUHLROLLEN-BEANSPRUCHUNG	 ISO 4918	keine Beschädigung	keine Beschädigung	keine Beschädigung	keine Beschädigung
	TRITTSCHALL	 EN ISO 717-2	ΔLw = 2 dB	ΔLw = 4 dB	ΔLw = 19 dB	ΔLw = 19 dB
	FARBECHTHEIT	 EN ISO 105-B02	≥ 6	≥ 6	≥ 6	≥ 6
	WÄRMELEITFÄHIGKEIT	 EN 14041 ISO 8302	0,07 m <sup>2</sup> .K/W (für Fußbodenheizung geeignet, max 27°C)	0,07 m <sup>2</sup> .K/W (für Fußbodenheizung geeignet, max 27°C)	0,04 m <sup>2</sup> .K/W (für Fußbodenheizung geeignet, max 27°C)	0,04 m <sup>2</sup> .K/W (für Fußbodenheizung geeignet, max 27°C)
	VERSCHLEISSFESTIGKEIT	 EN 660-2	Gruppe T	Gruppe T	Gruppe T	Gruppe T
	RUTSCHFESTIGKEIT	 EN 14041 EN 13893 DIN 51130	DS (≥ 0,30) R 10			
	EMISSIONEN VON TVOC (NACH 28 TAGEN)	EN ISO 16000-06	≤ 10µg/m <sup>3</sup>	≤ 10µg/m <sup>3</sup>	≤ 10µg/m <sup>3</sup>	≤ 10µg/m <sup>3</sup>
	CE-KENNZEICHNUNG		19 EN 14041: 2005 N° DOP 018-2019-01	16 EN 14041: 2005 N° DOP 007-2016-09	21 EN 14041: 2005 N° DOP 026-2021-04	21 EN 14041: 2005 N° DOP 027-2021-11

# CERTIFICATE OF COMPLIANCE



## Taizhou Huali New Materials Co., Ltd.

Luxury Vinyl Tile Flooring(2.0mm-  
5.0mm)

181064-420

Certificate Number

18 Aug 2020 - 18 Aug 2026

Certificate Period

Certified

Status

UL 2818 - 2022 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Flooring products are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using an Office and Classroom Environment.

Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2.



UL investigated representative samples of the identified Product(s) to the identified Standard(s) or other requirements in accordance with the agreements and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"). The Certificate Holder is authorized to use the UL Mark for the identified Product(s) manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified dates unless there is non-compliance with the Agreement.



## GREENGUARD Gold Certification Criteria for Building Products and Interior Finishes

Criteria	CAS Number	Maximum Allowable Predicted Concentration	Units
TVOC <sup>(A)</sup>	-	0.22	mg/m <sup>3</sup>
Formaldehyde	50-00-0	9 (7.3 ppb)	µg/m <sup>3</sup>
Total Aldehydes <sup>(B)</sup>	-	0.043	ppm
4-Phenylcyclohexene	4994-16-5	6.5	µg/m <sup>3</sup>
Particle Matter less than 10 µm <sup>(C)</sup>	-	20	µg/m <sup>3</sup>
1-Methyl-2-pyrrolidinone <sup>(D)</sup>	872-50-4	160	µg/m <sup>3</sup>
Individual VOCs <sup>(E)</sup>	-	1/2 CREL or 1/100th TLV	-

- (A) Defined to be the total response of measured VOCs falling within the C<sub>6</sub> – C<sub>16</sub> range, with responses calibrated to a toluene surrogate. Maximum allowable predicted TVOC concentrations for GREENGUARD Gold (0.22 mg/m<sup>3</sup>) fall in the range of 0.5 mg/m<sup>3</sup> or less, as specified in CDPH Standard Method v1.2.
- (B) The sum of all measured normal aldehydes from formaldehyde through nonanal, plus benzaldehyde, individually calibrated to a compound specific standard. Heptanal through nonanal are measured via TD/GC/MS analysis and the remaining aldehydes are measured using HPLC/UV analysis.
- (C) Particle emission requirement only applicable to HVAC Duct Products with exposed surface area in air streams (a forced air test with specific test method) and for wood finishing (sanding) systems.
- (D) Based on the CA Prop 65 Maximum Allowable Dose Level for inhalation of 3,200 µg/day and an inhalation rate of 20 m<sup>3</sup>/day
- (E) Allowable levels for chemicals not listed are derived from the lower of 1/2 the California Office of Environmental Health Hazard Assessment (OEHHA) Chronic Reference Exposure Level (CREL) as required per the CDPH/EHLB/Standard Method v1.2 and BIFMA level credit 7.6.2 and 1/100th of the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, and Cincinnati, OH 45211-4438).



10-24-2025

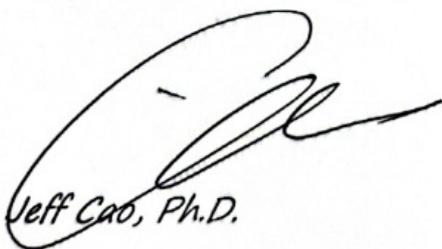
**RE: CONFORMITY STATEMENT**

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 2024-2025, conform to below requirements, and that product composition has not changed since certification. If you have any questions, please feel free to contact me.

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%

Best regards,

  
Jeff Cao, Ph.D.

VP, Quality and Operations

Taizhou Huali New Materials Co., Ltd.

[xiaozhi.cao@hualifloors.com](mailto:xiaozhi.cao@hualifloors.com)