SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

14693-10-1000

B!Design LVT 4.2/0.3

Product group: Vinyl

b!design

b!design / BAUHAUS
Gutenbergstraße 21
68167 Mannheim

Product qualities:

- **SHI** Product Assessment 2024
- **QNG** Qualitätssiegel Nachhaltiges Gebäude
- **DGNB** NEW CONSTRUCTION 2023.2
- **DGNB** NEW CONSTRUCTION 2023
- **DGNB** NEW CONSTRUCTION 2018
- **BNB-BN** NEUBAU V2015
- **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

SENTINEL HOLDING
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Product:
B!Design LVT 4.2/0.3

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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

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 ≤ 160 µg/m^3 Formaldehyd ≤ 10 µg/m^3	Indoor Air Quality Certified
Valid untill: 15 November 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
Verification: Prüfbericht des Instituts Eco-Institut vom 10.01.2022 / Prüfberichts Nr. 56870-A001-L. Konformitätserklärung vom 11.11.2024 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt. Herstellerklärungen vom 19.08.2024			

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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			Not relevant for assessment

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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 1
Verification: Prüfbericht des Instituts Eco-Institut vom 10.01.2022 / Prüfberichts Nr. 56870-A001-L. Konformitätserklärung vom 11.11.2024 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			

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 1
Verification: Prüfbericht des Instituts Eco-Institut vom 10.01.2022 / Prüfberichts Nr. 56870-A001-L. Konformitätserklärung vom 11.11.2024 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			

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Product:
B!Design LVT 4.2/0.3

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14693-10-1000

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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 1
Verification: Prüfbericht des Instituts Eco-Institut vom 10.01.2022 / Prüfberichts Nr. 56870-A001-L. Konformitätserklärung vom 11.11.2024 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			

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B!Design LVT 4.2/0.3

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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 Instituts Eco-Institut vom 10.01.2022 / Prüfberichts Nr. 56870-A001-L. Konformitätserklärung vom 11.11.2024 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt. Herstellerklärungen vom 19.08.2024			

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Product:
B!Design LVT 4.2/0.3

SHI Product Passport no.:
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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 Instituts Eco-Institut vom 10.01.2022 / Prüfberichts Nr. 56870-A001-L. Konformitätserklärung vom 11.11.2024 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.

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Product:
B!Design LVT 4.2/0.3

SHI Product Passport no.:
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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 Instituts Eco-Institut vom 10.01.2022 / Prüfberichts Nr. 56870-A001-L. Konformitätserklärung vom 11.11.2024 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			

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Product:
B!Design LVT 4.2/0.3

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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.

Product:
B!Design LVT 4.2/0.3

SHI Product Passport no.:
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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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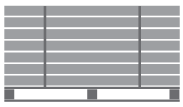
SGS TÜV SAAR

Publisher

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Germany
Tel.: +49 761 590 481-70
info@sentinel-holding.eu
www.sentinel-holding.eu

Technische Spezifikationen
Technical specifications

b!design LVT

Kollektion *Collection*		**4,2/0,3**
Typ *Type*		Dielen *Planks*
Format *Size* (mm)		1210 x 190 / 1220 x 180
Stärke *Thickness* (mm)		4,2
Nutzschicht *Wear layer* (mm)		0,3
Vergütung *Coating*		UV
Struktur *Surface*		Geprägt *Embossed*
Gefaste Kanten *Bevelled edge*		Nein *No*
Verbindung *Connection*		Uniclic
Trittschalldämmung *Impact sound insulation*		Nein *No*
1 Karton *box* 	Stück *pieces*	10
	m^2	2,299
	kg	17,63 / 18,31
1 Palette *pallet* 	kartons *boxes*	32
	m^2	73,568 / 70,272
	kg netto *net*	564,16 / 585,92
Rutschhemmstufe *Slip resistance*	DIN 51130	R10
Rutschfestigkeitsklasse *Slip resistance class*	CEN/TS 15676	DS
Resteindruck *Residual indentation*	EN 1534:2010	Erfüllt *Pass*
Wärmeleitfähigkeit *Thermal conductivity*	EN 12667:2001	0,111 W/m²K
Brandverhalten *Flammability*	BS EN 13501	B_{fl}-s1
Formaldehyd *Formaldehyde*		E1
Fussbodenheizung *Underfloor heating*		Geeignet zum Verlegen auf Warmwasser-Fussbodenheizung* *Suitable for hot water heating systems**
Nutzungklasse *Utilization class*		23/31
Herstellergarantie *Warranty of the producer*	Wohnen *Residential* Gewerblich *Commercial*	25 Jahre *years* 5 Jahre *years*

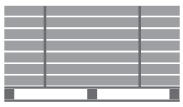
* Beachten Sie die Verlegeanleitung für weitere Details: bdesign-floors.com
See the installation instructions for more details: bdesign-floors.com

Für die Vollversion der DoP (Leistungserklärung) besuchen Sie: hwzi.ch/downloads
For the full version of the DoP (Declaration of Performance) visit: hwzi.ch/downloads

BAUHAUS – Gesundere Produkte – Gesund Wohnen – In Kooperation mit: SENTINEL HAUS INSTITUT

Technische Spezifikationen
Technical specifications

b!design LVT

Kollektion *Collection*		**4,2/0,3**
Typ *Type*		Dielen *Planks*
Format *Size* (mm)		1210 x 220
Stärke *Thickness* (mm)		4,2
Nutzschicht *Wear layer* (mm)		0,3
Vergütung *Coating*		CB
Struktur *Surface*		IRE
Gefaste Kanten *Bevelled edge*		Ja *Yes*
Verbindung *Connection*		Droplock100
Trittschalldämmung *Impact sound insulation*		Nein *No*
1 Karton *box* 	Stück *pieces*	8
	m^2	2,130
	kg	17,58
1 Palette *pallet* 	kartons *boxes*	33
	m^2	70,29
	kg netto *net*	580,14
Rutschhemmstufe *Slip resistance*	DIN 51130	R10
Rutschfestigkeitsklasse *Slip resistance class*	CEN/TS 15676	DS
Resteindruck *Residual indentation*	EN 1534:2010	Erfüllt *Pass*
Wärmeleitfähigkeit *Thermal conductivity*	EN 12667:2001	0,167 W/m²K
Brandverhalten *Flammability*	BS EN 13501	B_{fl}-s1
Formaldehyd *Formaldehyde*		E1
Fussbodenheizung *Underfloor heating*		Geeignet zum Verlegen auf Warmwasser-Fussbodenheizung* *Suitable for hot water heating systems**
Nutzungklasse *Utilization class*		23/31
Herstellergarantie *Warranty of the producer*	Wohnen *Residential* Gewerblich *Commercial*	25 Jahre *years* 5 Jahre *years*

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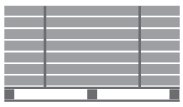
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GESUNDERE PRODUKTE BAUHAUS GESUND WOHNEN

Synchronprägung

Technische Spezifikationen
Technical specifications

b!design LVT

Kollektion *Collection*		**5,0/0,3**
Typ *Type*		Dielen *Planks*
Format *Size* (mm)		1210 x 190
Stärke *Thickness* (mm)		5,0
Nutzschicht *Wear layer* (mm)		0,3
Vergütung *Coating*		UV
Struktur *Surface*		Geprägt *Embossed*
Gefaste Kanten *Bevelled edge*		Nein *No*
Verbindung *Connection*		Uniclic
Trittschalldämmung *Impact sound insulation*		Nein *No*
1 Karton *box* 	Stück *pieces*	8
	m^2	1,839
	kg	18,19
1 Palette *pallet* 	kartons *boxes*	32
	m^2	58,848
	kg netto *net*	582,08
Rutschhemmstufe *Slip resistance*	DIN 51130	R10
Rutschfestigkeitsklasse *Slip resistance class*	CEN/TS 15676	DS
Resteindruck *Residual indentation*	EN 1534:2010	Erfüllt *Pass*
Wärmeleitfähigkeit *Thermal conductivity*	EN 12667:2001	0,153 W/m²K
Brandverhalten *Flammability*	BS EN 13501	B_{fl}-s1
Formaldehyd *Formaldehyde*		E1
Fussbodenheizung *Underfloor heating*		Geeignet zum Verlegen auf Warmwasser-Fussbodenheizung* *Suitable for hot water heating systems**
Nutzungklasse *Utilization class*		23/31
Herstellergarantie *Warranty of the producer*	Wohnen *Residential* Gewerblich *Commercial*	25 Jahre *years* 5 Jahre *years*

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BAUHAUS – Gesündere Produkte – Gesund Wohnen – In Kooperation mit: SENTINEL HAUS INSTITUT

Herstellererklärung - HWZI7

Name: **HWZ Int. AG**

Adresse: **Untere Gründlistrasse 23, 6055 Alpnach Dorf, Schweiz**

erklärt in eigener Verantwortung, dass die an die Bauhaus gelieferten Produkte:

Bezeichnung Original-Artikelnummer

b!design LVT Tile 4.2 / 0.3 (Fliese)
b!design LVT Tile 4.2 / 0.3 (Planken)
B!Design LVT Premium 6.5 / 0.55

Position & Bauproduktgruppe:	2.2 Elastische Bodenbeläge - auch mehrschichtige Systeme
Betrachtete Stoffe:	VOC / Emissionen / gefährliche Stoffe / Polyzyklische Aromatische Kohlenwasserstoffe (PAK) / SVHC / Schwermetalle
QNG-Anforderungen:	Einhaltung AgBB-Schema, Kautschukbeläge
Schadstoffvermeidung:	krebserzeugende Nitrosamine ≤ 0,011 mg/kg oder ≤ 0,0002 mg/m3; PVC-Bodenbeläge: reproduktiontoxische Phalate ≤ 0,10 %; keine Zinn-, Cadmium- und Bleistabilisatoren

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Obenstehende Produkte erfüllen die Kriterien für Schadstoffvermeidung in Baumaterialien vorgegeben durch das Qualitätssiegel Nachhaltiges Gebäude (GNG).

Alpnach Dorf, 19.08.2024

Jaime Iglesias

Herstellererklärung - HWZI7

Name: **HWZ Int. AG**

Adresse: **Untere Gründlistrasse 23, 6055 Alpnach Dorf, Schweiz**

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Alpnach Dorf, 19.08.2024

Jaime Iglesias