SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

14326-10-1039

ELEMENT FLEX

Product group: Laminate

LOGOCLIC®

LOGOCLIC / 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
- 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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INSTITUT

Product:
ELEMENT FLEX

SHI Product Passport no.:
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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	Wood-based floor coverings	TVOC ≤ 300 µg/m³ Formaldehyd ≤ 36 µg/m³	Indoor Air Quality Certified
Valid untill: 29 January 2029			

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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: Blauer Engel zertifiziert, siehe technisches Datenblatt			

Criteria	Assessment
ANF2-WG1 Nachhaltige Materialgewinnung	May positively contribute to the overall building score
Verification: PEFC zertifiziert, siehe technisches Datenblatt	

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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: Blauer Engel zertifiziert, siehe technisches Datenblatt			

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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: Blauer Engel zertifiziert, siehe technisches Datenblatt			

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: Blauer Engel zertifiziert, siehe technisches Datenblatt			

Criteria	Quality level
ENV1.3 Responsible resource extraction	May positively contribute to the overall building score
Verification: PEFC zertifiziert, siehe technisches Datenblatt	

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SHI Product Passport no.:
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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: Blauer Engel zertifiziert, siehe technisches Datenblatt			

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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 5
Verification: Blauer Engel zertifiziert, siehe technisches Datenblatt			

Criteria	Assessment
1.1.7 Nachhaltige Materialgewinnung	May positively contribute to the overall building score
Verification: PEFC zertifiziert, siehe technisches Datenblatt	

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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: TÜV PROFiCERT-product Interior PREMIUM vom 02.02.2024 (Nr. 70 720 5789-1)			

SENTINEL HOLDING
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Product:
ELEMENT FLEX

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: TÜV PROFiCERT-product Interior PREMIUM vom 02.02.2024 (Nr. 70 720 5789-1)			

SENTINEL HOLDING
INSTITUT

Product:
ELEMENT FLEX

SHI Product Passport no.:
14326-10-1039

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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: TÜV PROFiCERT-product Interior PREMIUM vom 02.02.2024 (Nr. 70 720 5789-1)			

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Product:
ELEMENT FLEX

SHI Product Passport no.:
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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.

"TÜV PROFiCERT-product Interior" is a certification procedure developed for interior products. The certification is carried out according to strict TÜV health and quality criteria. The PREMIUM variant requires particularly low emission levels.

The *Blue Angel* ("Blauer Engel") ecolabel, awarded by the German Federal Environment Agency, is one of the oldest and most widely used ecolabels in Germany. It exists in several variants for many different product groups. Since the test criteria, such as threshold values, differ between these variants, it is important to consider each one individually when assessing indoor air quality.

The PEFC label certifies wood and wood products from sustainably managed forests and requires, among other things, legal origin, protection of forest ecosystems, and social minimum standards in forestry. Environmental organisations consider PEFC's criteria to be less strict than those of FSC, particularly regarding the protection of sensitive forest areas. Health-related aspects of the final product are not part of the PEFC assessment.

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

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Germany
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info@sentinel-holding.eu
www.sentinel-holding.eu

LOGOCLIC® element flex

1288 x 239 x 6+1 mm

PAKET: 8 PANEELE | 2,46 m² | 16 kg

www.blauer-engel.de/uz176

Trägermaterial:	HDF, E1 quellarm verleimt Dichte 830 – 900 kg/m³
Dekorschicht:	0,2 mm

ÉMISSIONS DANS L'AIR INTÉRIEUR* A+ (A+ A B C)

PEFC/04-31-0546

Gemäß EN 16511 geeignet für alle Wohnbereiche mit intensiver Nutzung und für gewerbliche Bereiche mit normaler Nutzung

DIMENSIONEN

Format	Dicke	7 ± 0,50 mm · dmax - dmin ≤ 0,50 mm		
	Länge	1288 ± 0,50 mm		
	Breite	239 ± 0,10 mm · bmax - bmin ≤ 0,20 mm		
Profil	längs	twin clic +	quer	1clic 2go pure +
Fuge	längs	V-Fuge	quer	V-Fuge

TOLERANZEN

Rechtwinkligkeit	EN 16511	≤ 0,20 mm
Kantengeradheit	EN 16511	≤ 0,30 mm/m
Querwölbung	EN 16511	konkav: ≤ 0,15% · konvex: ≤ 0,20%
Längswölbung	EN 16511	konkav: ≤ 0,50% · konvex: ≤ 1,00%
Fugenöffnung	EN 16511	Mittelwert: ≤ 0,15 mm · Maximum: ≤ 0,20 mm
Höhenversatz	EN 16511	Mittelwert: ≤ 0,10 mm · Maximum: ≤ 0,15 mm

PRÜFUNGEN

Abriebbeanspruchung		EN 16511	Verfahren B: ≥ 7000 Umdr.
Stoßbeanspruchung		EN 16511	große Kugel ≥ 1800 mm
Mirkokratzbeständigkeit		EN 16511	≤ MRS-A2
Fleckunempfindlichkeit	Gruppe 1 & 2	EN 16511	Grad 5**
	Gruppe 3		≥ Grad 4
Stuhlrollenversuch		EN 16511	25.000 Zyklen
Auswirkung eines Möbelfußes		EN 16511	keine sichtbare Veränderung bei Prüfung mit Fuß Typ 0
Resteindruck		EN 16511	≤ 0,15 mm
Lichtechtheit		EN ISO 105-BO2:2014-08	Graumaßstabswert: 5
Verbindungsfestigkeit		EN 16511	längs ≥ 1 kN/m · quer ≥ 3,5 kN/m

UMWELTEIGENSCHAFTEN

Formaldehydemission	EN 16516	Klasse E1

PHYSIKALISCHE EIGENSCHAFTEN

Brandverhalten	EN 13501-1	Cfl s1
Gleitwiderstand	EN 13893	Technische Klasse DS
Wärmedurchlasswiderstand	EN 12667	0,062 (m²K)/W ± 15%
Trittschallminderung	EN ISO 10140-3:2010 + A1:2015-06	16 dB

*2 30 Jahre ★★★★★ GARANTIE | 6+1 mm STÄRKE | 1CLIC 2GO PURE+ | DS GLEITWIDERSTAND | WASSERBESTÄNDIG | FORMSTABIL | *3 EXTREM LEISE | *4 GEEIGNET FÜR FUSSBODENHEIZUNG | V4 UMLAUFENDE V-FUGE

*1 Angabe über den Grad der Emission von flüchtigen Substanzen in der Raumluft, die ein toxisches Risiko beim Einatmen darstellen, auf einer Skala A+ (sehr emissionsarm) bis C (hohe Emissionen). Nähere Informationen: www.eco-institut.de/de/portfolio/emissions-dans-lair-interieur
*2 Im Wohnbereich. Ausführliche Garantiebedingungen: www.logoclic.info *3 Die Reduktion des Tritt- und Gehschallwertes ist abhängig von der Untergrundbeschaffenheit.) *4 Bitte Verlegeanleitung beachten.

LOGOCLIC® element flex

638 x 322 x 6+1 mm

PAKET: 12 PANEELE | 2,47 m² | 16 kg

Trägermaterial: HDF, E1 quellarm verleimt
Dichte 830 – 900 kg/m³

Dekorschicht: 0,2 mm

ÉMISSIONS DANS L'AIR INTÉRIEUR* A+ (A+ A B C)

PEFC PEFC/04-31-0546

Gemäß EN 16511 geeignet für alle Wohnbereiche mit intensiver Nutzung und für gewerbliche Bereiche mit normaler Nutzung

DIMENSIONEN

Format	Dicke	7 ± 0,50 mm · dmax - dmin ≤ 0,50 mm		
	Länge	638 ± 0,50 mm		
	Breite	322 ± 0,10 mm · bmax - bmin ≤ 0,20 mm		
Profil	längs	twin clic +	quer	1clic 2go pure +
Fuge	längs	V-Fuge	quer	V-Fuge

TOLERANZEN

Rechtwinkligkeit	EN 16511	≤ 0,20 mm
Kantengeradheit	EN 16511	≤ 0,30 mm/m
Querwölbung	EN 16511	konkav: ≤ 0,15% · konvex: ≤ 0,20%
Längswölbung	EN 16511	konkav: ≤ 0,50% · konvex: ≤ 1,00%
Fugenöffnung	EN 16511	Mittelwert: ≤ 0,15 mm · Maximum: ≤ 0,20 mm
Höhenversatz	EN 16511	Mittelwert: ≤ 0,10 mm · Maximum: ≤ 0,15 mm

PRÜFUNGEN

Abriebbeanspruchung		EN 16511	Verfahren B: ≥ 7000 Umdr.
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Fleckunempfindlichkeit	Gruppe 1 & 2	EN 16511	Grad 5**
	Gruppe 3		≥ Grad 4
Stuhlrollenversuch		EN 16511	25.000 Zyklen
Auswirkung eines Möbelfußes		EN 16511	keine sichtbare Veränderung bei Prüfung mit Fuß Typ 0
Resteindruck		EN 16511	≤ 0,15 mm
Lichtechtheit		EN ISO 105-BO2:2014-08	Graumaßstabswert: 5
Verbindungsfestigkeit		EN 16511	längs ≥ 1 kN/m · quer ≥ 3,5 kN/m

UMWELTEIGENSCHAFTEN

Formaldehydemission	EN 16516	Klasse E1

PHYSIKALISCHE EIGENSCHAFTEN

Brandverhalten	EN 13501-1	Cfl s1
Gleitwiderstand	EN 13893	Technische Klasse DS
Wärmedurchlasswiderstand	EN 12667	0,062 (m²K)/W ± 15%
Gehschall	IHD-W 431	37%
Trittschallminderung	DIN EN ISO10140-3	15 dB

*Für den Wohnbereich gemäß Garantiebestimmungen unter www.krono-original.com **ausgenommen organische Lösemittel

*2 30 Jahre GARANTIE | 6+1 mm STÄRKE | 1CLIC 2GO PURE+ | DS GLEITWIDERSTAND | WASSERBESTÄNDIG | FORMSTABIL | *3 EXTREM LEISE | *4 GEEIGNET FÜR FUSSBODENHEIZUNG | V4 UMLAUFENDE V-FUGE

*1 Angabe über den Grad der Emission von flüchtigen Substanzen in der Raumluft, die ein toxisches Risiko beim Einatmen darstellen, auf einer Skala A+ (sehr emissionsarm) bis C (hohe Emissionen). Nähere Informationen: www.eco-institut.de/de/portfolio/emissions-dans-lair-interieur
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