SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

14149-10-1004

Kronotex Mammut

Product group: Laminate

SWISS KRONO

SWISS KRONO Tec AG
Museggstr. 14
6004 Luzern

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

SENTINEL HOLDING
INSTITUT

Product:
Kronotex Mammut

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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/m^3 Formaldehyd ≤ 36 µg/m^3	Indoor Air Quality Certified
Valid untill: 26 August 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	2.3 Multi-layer wood parquet, bamboo coverings, and floor coverings on wood-based panels	VOC / Emissions / hazardous substances	QNG ready
Verification: Prüfbericht des Instituts Fraunhofer WKI vom 21.10.2021 (Prüfberichts Nr. MAIC-2021-2819).			

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

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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			

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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			

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

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			

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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			

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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			

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

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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: Blauer Engel zertifiziert			

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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 Institut Eco-Institut vom 26.08.2024 (Nr. 59317-A001-L)			

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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 Institut Eco-Institut vom 26.08.2024 (Nr. 59317-A001-L)			

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Product:
Kronotex Mammut

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.

The Forest Stewardship Council (FSC) label is awarded to products made wholly or partly from wood sourced from responsibly managed and controlled forestry. Health-related aspects of the final product are not part of the FSC assessment.

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.

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.

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.

Product:
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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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Publisher

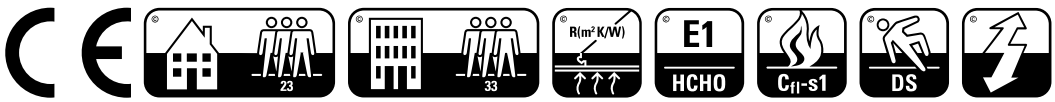
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info@sentinel-holding.eu
www.sentinel-holding.eu

SWISS KRONO	*QUALITÄTSMANAGEMENT* ***HANDBUCH***	
Qualitätsmanagementsystem Technisches Datenblatt		

MAMMUT

1. Produktbeschreibung

1.1. Dielenformat	1845 x 188 x 12 mm	
1.2. Verpackung	4 Dielen pro Paket = 1,387 m^2	
1.3. Aufbau		
- Oberfläche	Dreidimensional vernetztes Melaminharz mit Korund	
- Dekor	Dreidimensional vernetztes Melaminharz	
- Mittellage	Hochverdichtete Holzfaserplatte, HDF	
- Gegenzug	Dreidimensional vernetztes Melaminharz	
1.4. Verlegung	Mechanisches Verriegelungssystem – Clic-System, neues innovatives Clic-System, 50% Zeitersparnis, schwimmend verlegt nach der Verlegeanweisung	
1.5. Klassifizierung	ISO 10874	Klasse 23: Wohnen: Starke Beanspruchung Klasse 33: Gewerblich: Starke Beanspruchung
	nach DIN EN 13329	
	EN 14041 CE – Kennzeichnung	
1.6. Brandverhalten	EN 13501	C_{fl} – s1
1.7. Emissionsverhalten	E1 garantiert unter 0,05 ppm	
1.8. Gleitverhalten	Technische Klasse DS	
1.9. Fussbodenheizung	Wärmedurchlaßwiderstand nach DIN EN 12667 R = 0,10 [(m^2 * K)/W]	



MAMMUT

	Eigenschaft	Anforderung	Einheit	Prüfverfahren
1.	Dicke	**12**	mm	**EN 17539**
2.	Beanspruchungsklasse	**21 - 33**		**EN 13329**
3.	Beständigkeit gegen Abrieb	**AC5**		**ISO 24338** Verfahren A
4.	Beständigkeit gegen Stoßbeanspruchung	**kleine Kugel ≥ 70 mm** **große Kugel ≥ 750 mm**		**EN 17368** Anhang C
5.	Dickenquellung	**≤ 15**	%	**ISO 24336**
6.	Fleckenunempfindlichkeit	**Grad 5 (Gruppe 1 bis 2)** **Grad 4 (Gruppe 3)**		**EN 438-2**
7.	Abhebefestigkeit	**≥ 1,25**	N/mm^2	**EN 311**
8.	Verbindungsfestigkeit	**Fl 0,2 ≥ 1** **Fs 0,2 ≥ 2**	kN/m	**ISO 24334**
9.	Breite der Deckschicht	**max ± 0,2**	mm	**EN 17539**
10.	Länge der Deckschicht	**l ≤ 1500 mm: Δl ≤ 0,5** **l > 1500 mm: Δl ≤ 0,3**	mm/m	**EN 17539**
11.	Rechtwinkligkeit	**max ≤ 0,2**	mm	**EN 17539**
12.	Kantengeradheit	**max ≤ 0,3**	mm/m	**EN 17539**
13.	Höhenunterschiede	**max ≤ 0,15**	mm	**EN 17539**
14.	Fugenöffnungen	**max ≤ 0,2**	mm	**EN 17539**
15.	Formaldehyd	**≤ 0.05**	ppm	**EN 717-1**

Erstellt (Datum, Unterschrift) QS	Geprüft und Freigegeben (Datum, Unterschrift) 01.05.2025 NB	

URKUNDE

SWISS KRONO TEX GmbH & Co. KG
16909 Heiligengrabe, Deutschland

wird aufgrund des Zeichenbenutzungsvertrages Nr. 28183 zur DE-UZ 176
Ausgabe 2013 das Recht verliehen, für das Produkt

Kronotex Laminatfußboden DPL/DAPL Kollektionen: Advanced, Advanced plus, Amazone, Authentic, Basic, Catwalk, Dynamic, Dynamic plus, Evolution, Exquisit, Exquisit plus, Glamour, Herringbone, KIWI now, Mammut, Mammut plus, Mega, Progress, Robusto, Standard, Standard plus, Surprise, Surprise plus, Surprise plus wide, Stratos, Stratos Plus, Mega Plus

das nachstehend abgebildete Umweltzeichen als Ausweis für die besondere Umweltfreundlichkeit zu führen.

Bonn, den 27. Oktober 2023

Geschäftsführer
RAL gGmbH

Bundesministerium
für Umwelt, Naturschutz, nukleare Sicherheit
und Verbraucherschutz

Umwelt Bundesamt

Jury Umweltzeichen

RAL gGmbH

FSC® CHAIN OF CUSTODY CERTIFICATE

Certificate no.:
DNV-COC-000782/ DNV-CW-000782
Issue Number:
8

Initial certification date:
08 September 2000

Valid:
20 December 2021 – 19 December 2026

The validity of this certificate shall be verified on www.info.fsc.org

This is to certify that the

SWISS KRONO TEX GmbH & Co. KG

Wittstocker Chaussee 1, 16909 Heiligengrabe, Germany

has been found to conform to FSC standard:
FSC-STD-40-004, FSC-STD-40-005

This certificate is valid for the following scope:

Production, processing and sale of panel board products and decor paper (FSC Mix, FSC controlled wood), credit system, transfer system.

A list of the certificated products can be obtained from the FSC database, www.info.fsc.org
This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified (or FSC Controlled Wood). Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents.

Place and date:
Solna,16 December 2021

FSC
www.fsc.org
FSC® A000509
The mark of responsible forestry

For the issuing office:
DNV - Business Assurance
Elektrogatan 10, 171 54, Solna, Sweden

Ann-Louise Pått
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.This certificate is the property of DNV GL Business Assurance Sweden AB and must be returned on request

DIN CERTCO
Gesellschaft für Konformitätsbewertung mbH

PEFC
PEFC/04-04-0007

ZERTIFIKAT

Zertifikatinhaber	**SWISS KRONO TEX GmbH & Co. KG** Wittstocker Chausee 1 16909 Heiligengrabe Deutschland
Art der Zertifizierung	Einzelzertifizierung
Regelwerk	Produktkettennachweis von Holzprodukten – Anforderungen (PEFC ST 2002:2020) Richtlinie für die Verwendung der PEFC-Warenzeichen Anforderungen (PEFC ST 2001:2020)
Prüfgrundlage(n)	Zertifizierungsprogramm Produktkettennachweis für Produkte aus nachhaltiger Forstwirtschaft / Chain of Custody (CoC) (2022-01)
Prüfmethode	Kreditmethode
Registernummer	DINC-PEFC-COC-000005
Laufzeit	03.11.2023 – 02.05.2027
Bemerkungen	Weitere Angaben siehe Anhang.

DAkkS
Deutsche Akkreditierungsstelle
D-ZE-11125-01-01

03.11.2023
Dr. Ina Förster
Zertifiziererin

GESELLSCHAFT FÜR KONFORMITÄTSBEWERTUNG MBH
DIN CERTCO

DIN

DIN CERTCO
Gesellschaft für Konformitätsbewertung mbH

PEFC
PEFC/04-04-0007

ANHANG

Zertifikat	DINC-PEFC-COC-000005 vom 03.11.2023
Technische Angaben	Verwendete Produkte/Produktgruppen: 050601 Mitteldichte Faserplatten (MDF) 050602 Hochdichte Faserplatten (HDF) 050502 Oriented Strand Board (OSB) 090304 Fußböden

SWISS KRONO TEX GmbH & Co. KG · Wittstocker Chaussee 1 · D-16909 Heiligengrabe

Supplier Declaration

Heiligengrabe, 7. Juli 2025

Manufacturer: SWISS KRONO TEX GmbH & Co. KG
Wittstocker Chaussee 1
16909 Heiligengrabe, Germany

Products

- Laminate Floors
- OSB-Boards
- MDF/HDF-Boards
- Wall Panels
- Printed Decor Paper

We hereby declare that, to the best of our current knowledge, the above-mentioned products comply with the requirements of the following regulations and directives.

REACH (Registration, Evaluation, Authorization and Restriction of Chemicals)

Our products and packaging are free of substances listed in Annex XIV of Regulation (EC) No. 1907/2006[1] or on the candidate list of substances of very high concern and for which notification is required on the basis of the weight content.
Date of the SVHC candidate list (echa.europa.eu/candidate-list-table): 2025-06-25.

POP (Persistent organic pollutants)

No substances are used in our products and packaging that are banned or restricted under Article 3 of Regulation (EU) No. 2019/1021[2].

ROHS (Restriction of hazardous substances in electrical and electronic equipment)

No substances are used in our products that are restricted or banned according to Directive 2011/65/EU[3] and Delegated Directive (EU) 2015/863[4].

[Quality Department]

[1] Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
[2] Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants
[3] Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment
[4] Commission Delegated Directive (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances