



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

12974-10-1002

SPC flooring

Product group: Vinyl - Floor coverings / Wall coverings - Design floors

Rigid
— FLOORS
& WALLS

by bildschirm

Rigid Floors & Walls
Sprietestraat 326
8792 Waregem



Product qualities:



Köttner

Helmut Köttner
Scientific Director

Freiburg, 02 February 2026



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by alegno

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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: Technisches Datenblatt Stand 03/2025. AgBB-Konformität nachgewiesen durch Prüfbericht des Instituts Eurofins Product Testing Denmark A/S vom 24.02.2025 (Nr. 392- 2025-00008001_A_EN)			



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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	Assessment
ECO1.1 Life cycle cost (*)	May positively contribute to the overall building score

Criteria	Assessment
ENV1.1 Climate action and energy (*)	May positively contribute to the overall building score

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

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: Technisches Datenblatt Stand 03/2025. AgBB-Konformität nachgewiesen durch Prüfbericht des Instituts Eurofins Product Testing Denmark A/S vom 24.02.2025 (Nr. 392-2025-00008001_A_EN)



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: Technisches Datenblatt Stand 03/2025. AgBB-Konformität nachgewiesen durch Prüfbericht des Instituts Eurofins Product Testing Denmark A/S vom 24.02.2025 (Nr. 392-2025-00008001_A_EN)			



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by leigno

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: Technisches Datenblatt Stand 03/2025. Emission nach 28. Tg \leq DE-UZ 120 nachgewiesen durch Prüfbericht des Instituts Eurofins Product Testing Denmark A/S vom 24.02.2025 (Nr. 392-2025-00008001_A_EN)



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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: Technisches Datenblatt Stand 03/2025. AgBB-Konformität nachgewiesen durch Prüfbericht des Instituts Eurofins Product Testing Denmark A/S vom 24.02.2025 (Nr. 392-2025-00008001_A_EN)



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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: Technisches Datenblatt Stand 03/2025. AgBB-Konformität nachgewiesen durch Prüfbericht des Instituts Eurofins Product Testing Denmark A/S vom 24.02.2025 (Nr. 392-2025-00008001_A_EN)			



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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 Eurofins Product Testing Denmark A/S vom 24.02.2025 (Nr. 392-2025-00008001_A_EN)			



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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.



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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/C3%BCfverfahren/C3%BCr%20Produkte>

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Technical Date Sheet

(PVC Flooring, 180x1220x12/0.7mm)

Rigid FLOORS & WALLS

by lalegno 

No	Properties		Standard	Value
1	Dimensions	Length	ISO24342/ASTMF2055	±0.50mm
2		Width		±0.20mm
3	Overall Thickness		ISO24346/ASTMF386	Average+0.13/-0.1mm
4	Squareness	Length	ISO24342/ASTMF2055	≤0.15mm
5		Width		≤0.15mm
6	Dimensional Stability (6h-80°C)		ISO23999/ASTMF2199	≤0.1%
7	Curl (6h-80°C)		ISO23999/ASTMF2199	≤1.00mm
8	Colour Fasteness		ISO 105B02/ASTMF1515	Bette than 6
9	Wear Resistance		EN660-2	Wear group: T
10	Abrasion Resistance		EN 16511-2014 Table 2 & BS EN 13329:2016 Annex E	IP≥5000cycles
11	Effect of a castor chair		EN 16511-2014 Table 2 & EN 425: 2002	No visible damage after 25000 revolutions
12	Opening Between Elements		ISO10582/EN13329	Average≤0.10mm. Individual values ≤0.15mm
13	Height Difference		ISO10582/EN13329	Average ≤0.10mm. Individual vrlues ≤0.15mm
14	Airborne sound insulation		ASTM E492-09 and ASTM E989-06(2012)	IIC: 72
15	Burning Behavdour		EN 13501-1	Bf1-s1
16	Slip Resistance		DIN 51130:2014-02	α: 10.6° Rating: R 10
17	Thermal Conductivity		EN 12664:2001 Heat flow meter method	0.108W/(m-K)
18	Thermal Resistance		EN 12664:2001 Heat flow meter method	0.061(m²K)/W
19	Antistatic propensity-walking test		EN 1815:1997 Method A	≤2kv
20	VOC Emission		AgBB/DIBt	Certified
21	REACH SVHC		REACH	<0.1%
22	CMR 1A/1B			<0.1%
23	Phthalates		EN14372	< 0.10%
24	Hevey Metal (Tin, Cadmium, lead)			Do not contain
25	Chlorinated paraffins (SCCPs, MCCPs, LCCPs)			<0.10%

Material Safety Data Sheet

1 Identification of the substance/preparation and of the company/undertaking

.Product details

.Trade name: Vinyl Flooring

.Manufacturer/Supplier: Rigid Floors & Walls

Sprietestraat 3268792 Waregem, Belgium

Tel: +32 56 540 160

.Further information obtainable from: Rigid Floors & Walls

.Information in case of emergency: Rigid Floors & Walls

Sprietestraat 3268792 Waregem, Belgium

Contact: Mr. Jan

Tel: +32 56 540 160

2 Hazards identification

.Classification according to Directive 1999/45/EC: The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies. This material is not considered hazardous to health.

.Classification according to Regulation (EC) No 1272/2008 [CLP]

.Health : Not Classified

.Label elements

.Classification according to Directive 1999/45/EC: This material is not considered to be hazardous for the health.

.Classification according to Regulation (EC) No 1272/2008 [CLP]

.Hazard statement(s): **NOTHAZARDOUS:** This Material is Not Hazardous to the Health.

.Precautionary statement(s)

.Prevention: P280: Wear protective gloves/protective clothing/eye protection/face protection.

.Response : P305: IF IN EYES:

P351: Rinse cautiously with water for several minutes.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P332+P313: If skin irritation occurs: Get medical advice/attention.

.Storage: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

.Disposal: P501: Dispose of in compliance with governmental regulation.

3 Composition/information on ingredients

.Description: Mixture of substances listed below with additions.

.Product Name:	CAS Number	Approximate(%)by Wt.Or Vol.
Polyvinylchloride	9002-86-2	24%
Bis(2-ethylhexyl)terephthalate	6422-86-2	3%

Calciumcarbonate	471-34-1	70%
Other processing aids	---	3%

4 First aid measures

Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation.

.Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

.Eye: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid.

.Skin: Wash exposed area with soap and water. If irritation persists, seek medical attention.

.Ingestion: Give several glasses of milk or water. Vomiting may occur spontaneously, but it is not necessary to induce. Never give anything by mouth to an unconscious person.

.Medical conditions aggravated by exposure: No medical conditions are known to be aggravated by these products.

.Notes to Physician: Mixture is orally non-toxic. See Section 11 for additional toxicological data.

5 Fire-fighting measures

.Flammable class: Not determined

.Suitable extinguishing media: Water, CO₂, Dry Chemicals, Foam-Fog

.Fire/Explosion Hazards: Negligible fire hazard when exposed to heat or flame.

.Fire Fighting Procedure: Wear self contained breathing apparatus meeting NIOSH standards.

.Other information: Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to products of combustion exists.

6 Accidental release measures

.Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

.Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7 Handling and storage

The regulations relating to storage remises apply to workshop where the product is handled :

.Handling: Apply good manufacturing practice & industrial hygiene practices. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. Wear protective goggles and gloves when handling material. Clean cloths must be worn. Observe all warnings and precautions listed for the product.

.Storage: Store in tightly closed original container, in a cool & dry area away from heat sources & protected from light. Avoid dust formation and control ignition sources. Keep air contact to a minimum.

.Further information about storage condition: None.

8 Exposure controls/personal protection**.Control parameters****Components with workplace control parameters.****.Exposure controls****.Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

.Personal protective equipment**.Body Protection:**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

.Protective Gloves:*Protective Gloves*

Rubber or plastic acid-resistant gloves with elbow-length gauntlet.

.Eye Protection:*Tightly sealed goggles*

Chemical goggles or face shield.

9 Physical and chemical properties

.General Information	
.Form:	<i>Article</i>
.Color:	<i>Color</i>
.Odor:	<i>Mild</i>
.Change in condition	
.Melting point/Melting range:	<i>Not available</i>
.Boiling point/Boiling range:	<i>Not available</i>
.Flash point:	<i>Not available</i>
.Self-igniting:	<i>Product is not self-igniting</i>
.Danger of explosion:	<i>Not available</i>
.Density:	<i>Not available</i>
.Relative density:	<i>Not available</i>
.Vapor density:	<i>Not available</i>
.Evaporation rate	<i>Not available</i>
.Solubility in/Miscibility with	
.Water:	<i>Miscibility</i>

.pH-Value:	Not available
.Viscosity:	
Dynamic:	Not available

10 Stability and reactivity

- .Chemical Stability:** Stable under normal temperatures and pressures.
- .Decomposition Products:** Not available.
- .Materials with which substance is incompatible:** None known.
- .Hazardous Polymerizations:** Will not occur.
- .Polymerization:** Will not occur.
- .Special Remarks on Reactivity:** Not available.
- .Special Remarks on Corrosively:** Not available.

11 Toxicological information

- .Chronic Effects on Humans:** Causes damage to the following organs: lungs.
- .Other Toxic Effects on Humans:**
 - No Hazardous in case of inhalation.
 - No hazardous in case of skin contact (irritant), of ingestion.
- .Special Remarks on Toxicity to Animals:** Not available.
- .Special Remarks on Chronic Effects on Humans:** Not available.
- .Special Remarks on other Toxic Effects on Humans:** Not available.

12 Ecological information

- .Ecotoxicity:** Not available.
- .Products of Biodegradation:** None hazardous short term degradation products are not likely.
- .Other adverse effects:** Not expected to be acutely toxic..

13 Disposal considerations

- .Waste Disposal Methods:** Disposal must be done as territory and /or local government regulations. .Waste management information will help to receive the best results.
- .Disposal of packaging:** Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment.

14 Transport information

- .DOT Classification:** Not a DOT controlled material (United States).
- .Identification:** Not applicable.
- .Special Provisions for Transport:** Not applicable.
- .Marine Pollutant:** Not applicable

15 Regulatory information

According to Directive 88/379/EEC

.Hazards: N.A

.Symbols: N.A

.Risk phrases: N.A

.Safety phrases: S 22 Do not breathe dust

16 Other information

The contents and format of this MSDS/SDS are in accordance with REGULATION (EC) No 1907/2006, REGULATION (EC) No 1272/2008, EU Commission Directive 1999/45/EC, 1967/548/EEC.

DISCLAIMER OF LIABILITY

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End of document

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