



# SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

**14158-10-1013**

## Decoflooring SPC

Product group: Vinyl



Decoflooring GmbH  
Am Turm 44  
53721 Siegburg



### Product qualities:



*Köttner*

Helmut Köttner  
Scientific Director

Freiburg, 02 February 2026



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# Contents

|                                                                                                                              |    |
|------------------------------------------------------------------------------------------------------------------------------|----|
|  SHI Product Assessment 2024                | 1  |
|  QNG - Qualitätssiegel Nachhaltiges Gebäude | 2  |
|  DGNB New Construction 2023                 | 3  |
|  DGNB New Construction 2018                 | 4  |
|  BNB-BN Neubau V2015                        | 5  |
|  EU taxonomy                                | 6  |
|  BREEAM DE Neubau 2018                      | 7  |
| Product labels                                                                                                               | 8  |
| Legal notices                                                                                                                | 9  |
| Technical data sheet/attachments                                                                                             | 10 |

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SHI Product Passport no.:

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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 $\leq 160 \mu\text{g}/\text{m}^3$<br>Formaldehyd $\leq 10 \mu\text{g}/\text{m}^3$ | Indoor Air Quality Certified |
| Valid until: 09 August 2027 |                       |                                                                                        |                              |



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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<br>Schadstoffvermeidung in<br>Baumaterialien | 2.2 Resilient floor coverings<br>– including multilayer<br>systems | VOC / Emissions / hazardous<br>substances / polycyclic<br>aromatic hydrocarbons (PAH) /<br>SVHC / heavy metals | QNG ready      |

**Verification:** Zertifikat TÜV PROFiCERT-product Interior PREMIUM vom 07.08.2024/  
Zertifikats Nr. 707205828-2. Inhaltsstoffanforderungen bestätigt im Technisches Datenblatt.



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SHI Product Passport no.:

**14158-10-1013**



## 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 |
| <b>Verification:</b> Zertifikat TÜV PROFiCERT-product Interior PREMIUM vom 07.08.2024 / Zertifikats Nr. 707205828-2. Inhaltsstoffanforderungen bestätigt im Technisches Datenblatt. |                                                                        |                                                                |                 |

| Criteria                      | Assessment                                              |
|-------------------------------|---------------------------------------------------------|
| SOC1.2 Indoor air quality (*) | 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, 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 |
| <b>Verification:</b> Zertifikat TÜV PROFiCERT-product Interior PREMIUM vom 07.08.2024 / Zertifikats Nr. 707205828-2. Inhaltsstoffanforderungen bestätigt im Technisches Datenblatt. |                                                                        |                                                                |                 |



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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:** Zertifikat TÜV PROFICERT-product Interior PREMIUM vom 07.08.2024 / Zertifikats Nr. 707205828-2. Inhaltsstoffanforderungen bestätigt im Technisches Datenblatt.



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SHI Product Passport no.:

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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:** Zertifikat TÜV PROFiCERT-product Interior PREMIUM vom 07.08.2024 / Zertifikats Nr. 707205828-2. Inhaltsstoffanforderungen bestätigt im 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) | Substances according to Annex C, formaldehyde, carcinogenic VOCs category 1A/1B | EU taxonomy compliant |
| <b>Verification:</b> Zertifikat TÜV PROFiCERT-product Interior PREMIUM vom 07.08.2024 / Zertifikats Nr. 707205828-2. Inhaltsstoffanforderungen bestätigt im Technisches Datenblatt. |                                                               |                                                                                 |                       |



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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) |                       | Exemplary quality |
| <b>Verification:</b> Zertifikat TÜV PROFiCERT-product Interior PREMIUM vom 07.08.2024 / Zertifikats Nr. 707205828-2. |                                                                             |                       |                   |



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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.



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.

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

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## Material Safety Data Sheet

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

**. Product details**

**. Trade name:** Solid Plastic Composite / SPC Flooring

**. Manufacturer/Supplier:** Decoflooring GmbH.

Am Turm 26, 53721 Siegburg, Germany

**. Further information obtainable from:** Decoflooring GmbH.

**. Information in case of emergency:** Decoflooring GmbH.

Am Turm 26, 53721 Siegburg, Germany

**Tel:** +49 (0) 2241 9767 400

### 2 Hazards identification

**. Classification of the substance or mixture**

**. Classification according to EU Directives 1272/2008/EC**

This product is not classified as dangerous according to EC criteria.

**. Label elements**

**. Labelling according to EC Directives**

This product is not classified as dangerous according to EC criteria.

### 3 Composition/information on ingredients

**. Chemical characterization:** Under normal conditions of use and handling, this product is not expected to create any health or safety hazards.

**. Description:** Mixture of substances listed below with additions.

| Product Name:               |                   | CAS Number | Approximate(%)by Wt.Or Vol. |
|-----------------------------|-------------------|------------|-----------------------------|
| Base Layer                  | PVC               | 9002-86-2  | 15-25%                      |
|                             | CaCO <sub>3</sub> | 471-34-1   | 65-75%                      |
|                             | Mixture           | ---        | 3-8%                        |
| Warelayer (PVC)             |                   | 9002-86-2  | 3-6%                        |
| Printing Film (PVC)         |                   | 9002-86-2  | 0.5-1.5%                    |
| UV Coating                  |                   | ---        | 0.1-0.3%                    |
| Pressure sensitive adhesive |                   | ---        | 0.1-0.3%                    |
| Ispex foam film             |                   | ---        | 0.5-1%                      |

### 4 First aid measures

Persons using these products should consult a physician or other medical professional if an accident involving these

**products in injury. Specific first-aid measures are as follows:**

- **Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.
- **Skin Contact:** If irritation occurs, flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
- **Ingestion:** Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Get medical aid if irritation or symptoms occur.
- **Inhalation:** Not Applicable
- **Medical conditions aggravated by exposure:** No medical conditions are known to be aggravated by these products.
- **Recommendations to physicians:** Not Applicable

## 5 Fire-fighting measures

- **General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes.
- **Flammable class:** Not determined
- **Suitable extinguishing media:** Water, CO<sub>2</sub>, 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

### . Ventilation and Engineering controls:

No special ventilation and engineering controls are required for handling of these products.

### . Respiratory Protection:

No special respiratory protection is required for use of these products. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard, applicable U.S. State regulations, or the Canadian CSA standard.

### . Body Protection:

No special protective clothing is required.

### . 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                   |                                  |
|----------------------------------------|----------------------------------|
| <b>.Form:</b>                          | Solid                            |
| <b>.Color:</b>                         | color                            |
| <b>.Odor:</b>                          | Odor                             |
| <b>.Change in condition</b>            |                                  |
| <b>.Melting point/Melting range:</b>   | Not available                    |
| <b>.Boiling point/Boiling range:</b>   | Not available                    |
| <b>.Flash point:</b>                   | Not available                    |
| <b>.Self-igniting:</b>                 | Product is not self-igniting     |
| <b>.Danger of explosion:</b>           | Not available                    |
| <b>.Density:</b>                       | Not available                    |
| <b>.Relative density:</b>              | Not available                    |
| <b>.Vapor density:</b>                 | Not available                    |
| <b>.Evaporation rate</b>               | Not available                    |
| <b>.Solubility in/Miscibility with</b> |                                  |
| <b>.Water:</b>                         | Not miscible or difficult to mix |
| <b>.PH-Value:</b>                      | Not available                    |

**.Viscosity:****.Dynamic:**

Not available

**10 Stability and reactivity**

- . Chemical Stability:** Stable under normal temperatures and pressures.
- . Decomposition Products:** Products of thermal decomposition can include produce related gases (e.g. carbon oxides, and various hydrocarbons). Refer to the NFPA manual for more specific information.
- . Materials with which substance is incompatible:** None known.
- . Hazardous Polymerizations:** Will not occur.
- . Conditions to Avoid:** Avoid exposure or contact to extreme temperatures, incompatible chemicals.

**11 Toxicological information**

- . Toxicity to Animals:**  
LD50: Not available.  
LC50: Not available.
- . Chronic Effects on Humans:** CARCINOGENIC EFFECTS: Classified NONE by NTP, NONE by OSHA. 3 (Not classifiable for human.) by IARC.
- . Other Toxic Effects on Humans:** None
- . on the skin:** Irritant to skin and mucous membranes if soluble
- . on the eye:** Sensitizing effects known.
- . Carcinogenicity:** None Determine.
- . Mutagenicity:** None Determine.
- . Teratogenicity:** None Determine

**12 Ecological information**

- . Instability:** Not applicable.
- . Persistence/Degradability:** Like plastic in the long term.
- . Environmental Precautions:** It must be disposed of by incineration or in an authorized waste deposit.

**13 Disposal considerations**

- Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
- . 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

- . **Sara reporting requirements:** Not applicable as an article. The components of these products do not have requirements as pure compounds; if dusts from the product are produced, SARA requirements may be applicable.
- . **Sara threshold planning quantity:** There are no specific threshold planning quantities for the components of these products. None of the ingredients is listed.
- . **TSCA (Toxic substances Control ACT):** There are articles and are not subject to the requirements of TSCA.
- . **California Safe drinking water and toxic enforcement act (Proposition 65):** No component of these products is on the proposition 65 lists.

#### 16 Other information

**The contents and format of this MSDS/SDS are in accordance with REGULATION (EC) No 1907/2006 and Regulation (EU) 2021/2030, REGULATION (EC) No 1272/2008.**

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##### **DISCLAIMER OF LIABILITY**

The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may be applicable.

\*\*\*\*\*

**End of document**

\*\*\*\*\*The End\*\*\*\*\*

| Decoflooring SPC Flooring / Solid Plastic Composite |                                             |                                |                                              |
|-----------------------------------------------------|---------------------------------------------|--------------------------------|----------------------------------------------|
| No                                                  | Property                                    | Method & Standard              | Review in accordance with Standard           |
| 1                                                   | Formaldehyde emission                       | EN 717-1                       | E1                                           |
| 2                                                   | Reaction to fire                            | EN 13501-1                     | Bfl-s1                                       |
| 3                                                   | Slip resistance                             | EN 13893                       | Class DS                                     |
| 4                                                   | Slip resistance                             | DIN EN 16165                   | R9/R10                                       |
| 5                                                   | Wear resistance                             | ISO 24338 Procedure A          | ≥ 5000 cycles                                |
| 6                                                   | Micro-scratch resistance                    | EN 16094                       | ≤ MSR-A2                                     |
| 7                                                   | Impact resistance (big ball)                | EN 13329                       | ≥ 1600mm                                     |
| 8                                                   | Effect of furniture leg                     | EN ISO 16581                   | No visible damage                            |
| 9                                                   | Castor chair resistance                     | EN ISO 4918                    | 25000 cycles                                 |
| 10                                                  | Resistance to staining                      | EN 438-2                       | Not affected                                 |
| 11                                                  | Light stability                             | EN ISO 105-B02                 | ≥ 6                                          |
| 12                                                  | Antistatic resistance                       | EN 1815                        | < 2kV                                        |
| 13                                                  | Thermal conductivity&Thermal resistance     | EN 12664                       | 0.112 W/(m· K) & 0.085 (m <sup>2</sup> .K)/W |
| 14                                                  | Dimensional stability                       | EN ISO 23999                   | ≤ 0.15%                                      |
| 15                                                  | Curling after exposure to heat              | EN ISO 23999                   | ≤ 1mm                                        |
| 16                                                  | Residual Indentation                        | ISO 24343-1                    | ≤ 0.1mm                                      |
| 17                                                  | Sound Insulation                            | ISO 10140-3 ISO 717-2          | 21 db(with underlayer)                       |
| 18                                                  | VOC emissions                               | ISO 16000 parts -3, -6, -9, 11 | French A+                                    |
| 19                                                  | REACH SVHC                                  | REACH                          | < 0.1%                                       |
| 20                                                  | CMR 1A/1B                                   |                                | < 0.1%                                       |
| 21                                                  | Phthalates                                  | EN14372                        | ≤ 0.10%                                      |
| 22                                                  | Heavy Metal (Tin, Cadmium, lead)            |                                | Do not contain                               |
| 23                                                  | Chlorinated paraffins (SCCPs, MCCPs, LCCPs) |                                | <0.10%                                       |
| 24                                                  | CE                                          | EN 14041                       | Certified                                    |
| 25                                                  | Utilization                                 |                                | Recyclable                                   |
| 26                                                  | Anticipated Product Lifetime                |                                | 25 Years                                     |