



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

14158-10-1022

Robust [30] Nadelvlies 1600-01 bis 1600-12

Product group: Flooring - Carpet flooring - Needle-punched felt



Egbert Wilts GmbH & Co. KG
Nessestraße 1 c
26789 Leer



Product qualities:



Köttner

Helmut Köttner
Scientific Director
Freiburg, 12 December 2025



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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

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





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1600-12**

SHI Product Passport no.:

14158-10-1022



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	Textile floor coverings	TVOC $\leq 100 \mu\text{g}/\text{m}^3$ Formaldehyd $\leq 4 \mu\text{g}/\text{m}^3$	Indoor Air Quality Certified



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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	2.1 Textile floor coverings	VOC / Emissions / hazardous substances / polycyclic aromatic hydrocarbons (PAH) / biocides	QNG ready

Verification: Technisches Datenblatt Stand: 12.06.2025



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14158-10-1022



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)	6 Floor coverings (Textile Floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 4
Verification: Technisches Datenblatt Stand: 12.06.2025			

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	6 Floor coverings for indoor use (textile floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 4
Verification: Technisches Datenblatt Stand: 12.06.2025			



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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	6 Floor coverings (Textile Floor coverings)	VOC / hazardous substances	Quality level 4
Verification: Technisches Datenblatt Stand: 12.06.2025			



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1600-12**

SHI Product Passport no.:

14158-10-1022



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	1 textile floor coverings	VOC / hazardous substances / biocides	Quality level 5
Verification: Technisches Datenblatt Stand: 12.06.2025			



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1600-12**

SHI Product Passport no.:

14158-10-1022



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		Substances according to Annex C, formaldehyde, carcinogenic VOCs category 1A/1B	EU taxonomy compliant
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1600-12**

SHI Product Passport no.:

14158-10-1022



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

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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.



The GUT label, issued by the German association "Gemeinschaft umweltfreundlicher Teppichboden e.V.", is an ecolabel for carpets that includes strict emission testing criteria.



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.



"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.



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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%BCr%20Produkte>

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Robust 1600



PRODUKTBESCHREIBUNG

Farbenanzahl	12 Farben
Herstellungsverfahren ISO 2424	Nadelvlies
Bahnbreite	200 + 400 cm
Nutzschicht	100% PP
Nutzschichteinsatzgewicht	900 g/m ²
Gesamthöhe ISO 1765	5,20 mm
Flächengewicht ISO 8543	1090 g/m ²
Rücken ISO 2424	LV

KLASSIFIZIERUNG

Nutzungsklasse EN ISO 10874	33
Brandverhalten EN 13501-1	Cfl-s1 (vollflächige Verklebung)
Luxusklasse EN 1307	LC1
Rutschhemmung EN 13893	DS (> 0,30)

TECHNISCHE EIGENSCHAFTEN

Trittschallverbesserung ISO 10140	17 dB
Elektrostatische Aufladung ISO 6356	< 2 kV
Lichtechtheit ISO 105-B02	≥ 5
Wärmedurchlasswiderstand ISO 8302	0,06 m ² K/W (0,6 TOG)
Stuhlrolleneignung EN 985	geeignet – permanente Nutzung
Fußbodenheizung	geeignet

Treppeneignung
EN 1307

geeignet – gelegentliche Nutzung

PRODUKTHINWEISE

Prodis-ID (GuT)
TÜV PROFICERT product

4AD08DA1
Zertifikatsnummer: 70-710-5617-3



www.blauer-engel.de/iz128



Mitglied der
DGNB
Das Institut für Green Building
Green Building Rating System



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