SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

14088-10-1001

Zusatz-Wärmedämmung EPS DEO 100 SH

Product group: EPS

SCHÜTZ ENERGY SYSTEMS

SCHÜTZ GmbH & Co. KGaA
Schützstraße 12
56242 Selters

Product qualities:

- SHI Product Assessment 2024
- DGNB NEW CONSTRUCTION 2023.2
- DGNB NEW CONSTRUCTION 2023
- DGNB NEW CONSTRUCTION 2018
- 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, 26 August 2026

Product:
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SCHÜTZ ENERGY SYSTEMS

Contents

SHI Product Assessment 2024	1
DGNB New Construction 2023.2	2
DGNB New Construction 2023	3
DGNB New Construction 2018	4
BREEAM DE Neubau 2018	5
LEED v4.1	6
Product labels	7
Legal notices	8
Technical data sheet/attachments	9

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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ENERGY SYSTEMS

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	Insulation materials	TVOC ≤ 300 µg/m^3 Formaldehyd ≤ 24 µg/m^3	Indoor Air Quality Certified
Valid untill: 23 January 2028			

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SHI Product Passport no.:
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SCHÜTZ ENERGY SYSTEMS

DGNB New Construction 2023.2

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact			Not relevant for assessment

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SHI Product Passport no.:
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SCHÜTZ ENERGY SYSTEMS

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)			Not relevant for assessment

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	40 Synthetic foam insulation for buildings	Halogenated propellants / SVHC: HBCD, TCEP / emissions	Quality level 4
Verification: Emissionsprüfbericht Eco Institut 53589-001			

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INSTITUT

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SHI Product Passport no.:
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SCHÜTZ
ENERGY SYSTEMS

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			Not relevant for assessment

SENTINEL HOLDING
INSTITUT

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SHI Product Passport no.:
14088-10-1001

SCHÜTZ ENERGY SYSTEMS

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	Ceiling, wall, and acoustic and thermal insulation materials	Emissions: Formaldehyde, TVOC, TSVOC, carcinogens	Exemplary quality
Verification: Prüfbericht des Eco Instituts vom 04.10.2018 (Nr. 53589-001). Konformitätserklärung vom 23.01.2026 bestätigt die weitere materielle Übereinstimmung.			

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Product:
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SHI Product Passport no.:
14088-10-1001

SCHÜTZ ENERGY SYSTEMS

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	Not relevant for assessment
Verification: Prüfbericht des Eco Instituts vom 04.10.2018 (Nr. 53589-001). Konformitätserklärung vom 23.01.2026 bestätigt die weitere materielle Übereinstimmung.			

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SCHÜTZ
ENERGY SYSTEMS

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.

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SCHÜTZ ENERGY SYSTEMS

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 TÜV SAAR

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DATENBLATT DÄMMUNG

SCHÜTZ ENERGY SYSTEMS

www.schuetz.net

Wärmedämmung
EPS DEO 100 **SH**
Typ 20, 30, 40, 50, 70

HBCD frei
Erfüllt die **SHI-Kriterien**



Normen:
DIN EN 13163
DIN EN 4108-10

Überwachung:
1. Eigenüberwachung
2. FIW, München
(DIN EN 13163)

Aufbau:

- Wärmedämmung aus expandiertem Polystyrol-Hartschaum EPS DEO 100/035 DEO dm
EPS EN 13163-T2-L3-W3-S5-P3-BS150-CS(10)100-DS(N)5-DLT(1)5
DOP: L1-10-132
- Kantenverbindung: ringsum, stumpf, geschnitten

Technische Daten:

- Plattenabmessungen: 1.000 x 500 mm
- Max. Druckspannung bei 10% Stauchung (DIN EN 13163): 100 kPa
- Brandverhalten RtF: E (EN 13501-1)
- Baustoffklasse nach DIN 4102-1: B 1

TYP 20 (ARTIKEL-NR. 4040317*)	
VPE/ Palette	120,00 m²
Plattenstärke d_N	20 mm
Wärmeleitfähigkeit λ_D	0,034 W/mK
Wärmeleitwiderstand R_D	0,59 m² K/W

TYP 30 (ARTIKEL-NR. 4040318)	
VPE/ Palette	80,00 m²
Plattenstärke d_N	30 mm
Wärmeleitfähigkeit λ_D	0,034 W/mK
Wärmeleitwiderstand R_D	0,88 m² K/W

TYP 40 (ARTIKEL-NR. 4040319*)	
VPE/ Palette	60,00 m²
Plattenstärke d_N	40 mm
Wärmeleitfähigkeit λ_D	0,034 W/mK
Wärmeleitwiderstand R_D	1,18 m² K/W

TYP 50 (ARTIKEL-NR. 4040320)	
VPE/ Palette	50,00 m²
Plattenstärke d_N	50 mm
Wärmeleitfähigkeit λ_D	0,034 W/mK
Wärmeleitwiderstand R_D	1,47 m² K/W

TYP 70 (ARTIKEL-NR. 4040331*)	
VPE/ Palette	35,00 m²
Plattenstärke d_N	70 mm
Wärmeleitfähigkeit λ_D	0,034 W/mK
Wärmeleitwiderstand R_D	2,06 m² K/W

*Lagerware