SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

14900-10-1000

EQtherm Flächenheizungssystem Glasfaser

Product group: Heating - Surface heating systems

EQtherm® FLÄCHENHEIZUNGEN

EQtherm GmbH
Am Kohlenweg 6
56307 Dürrholz-Daufenbach

Product qualities:

- SHI Product Assessment 2024
- QNG Qualitätssiegel Nachhaltiges Gebäude
- 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, 02 April 2026

SENTINEL HOLDING
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Product:
EQtherm Flächenheizungssystem Glasfaser

SHI Product Passport no.:
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EQtherm® FLÄCHENHEIZUNGEN

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
LEED v4.1	8
Product labels	9
Legal notices	10
Technical data sheet/attachments	11

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 SGS TÜV SAAR

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EQtherm® FLÄCHENHEIZUNGEN

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	Assessment
SHI Product Assessment		Indoor Air Quality Certified
Valid untill: 17 August 2027		

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14900-10-1000

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	12.3 Insulation materials made of artificial mineral fibres (AMF)	Hazardous substances / emissions	QNG ready
Verification: Blauer Engel Urkunden (DE-UZ 132) vom 16.12.2021 und vom 17.04.2025			

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INSTITUT

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SHI Product Passport no.:
14900-10-1000

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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)	not applicable		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)	not applicable		Not relevant for assessment

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INSTITUT

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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	not applicable	not applicable	Not relevant for assessment

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INSTITUT

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SHI Product Passport no.:
14900-10-1000

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	36b Mineral and non-mineral interior insulations	VOC / biocides / hazardous substances / individual hazardous substances (formaldehyde) / halogenated blowing agents	Quality level 4

Verification: Eurofins Zertifikat Nr. IACG-400-191-03-04-2022 vom 17.08.2022 und IACG-323-01-34-2023A vom 21.11.2023. Sicherheitsdatenblatt vom 16.02.2024 (Überarbeitungsdatum)

SENTINEL HOLDING
INSTITUT

Product:
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SHI Product Passport no.:
14900-10-1000

EQtherm® FLÄCHENHEIZUNGEN

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	Internal insulation	Substances according to Annex C, formaldehyde, carcinogenic VOCs category 1A/1B	EU taxonomy compliant

Verification: Eurofins Zertifikat Nr. IACG-400-191-03-04-2022 vom 17.08.2022 und IACG-323-01-34-2023A vom 21.11.2023. Sicherheitsdatenblatt vom 16.02.2024 (Überarbeitungsdatum)

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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	Ceiling, wall, and acoustic and thermal insulation materials	Emissions: Formaldehyde, TVOC, carcinogens	Exemplary quality
Verification: Eurofins Zertifikat Nr. IACG-400-191-03-04-2022 vom 17.08.2022 und IACG-323-01-34-2023A vom 21.11.2023.			

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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	Assessment
EQ Credit: Low-Emitting Materials	Dämmstoffe	compliant
Verification: Eurofins Zertifikat Nr. IACG-400-191-03-04-2022 vom 17.08.2022 und IACG-323-01-34-2023A vom 21.11.2023.		

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EQtherm® FLÄCHENHEIZUNGEN

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.

The International EPD® System is a globally recognised programme for the creation and publication of Environmental Product Declarations (EPDs). It enables companies to transparently present the environmental impacts of their products, based on international standards such as ISO 14025 and EN 15804 for construction products. The system provides a standardised method for assessing the environmental performance of products throughout their entire life cycle and promotes sustainable business practices and ecological transparency across various industries.

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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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EQ Glasfaser Klettplatte 033 DES sh 30-5 mm

Verlegefertiges Klett-Rohrträgerelement als Wärme- und Trittschalldämmung für besonders hohe Schallschutzanforderungen im Wohnungs- und Gewerbebau nach DIN 4109, zur Aufnahme der EQ Klettrohre, oberseitig kaschiert mit einer reißfesten und wasserdichten Klett-Veloursfolie mit aufgedrucktem Verlegeraster und selbstklebender Folienüberlappung, zum Einsatz unter Fließ- und Zementestrichen gemäß DIN 18560 und DIN EN 1264.

Wärmeleitfähigkeit Bemessungswert (D)	$\lambda = 0{,}033$ W / (m · K)
Wärmeleitfähigkeit Nennwert (EU)	$\lambda D = 0{,}032$ W / (m · K)
Wärmedurchlasswiderstand (D)	R = 0,90 m² K/W
Wärmedurchlasswiederstand (EU)	R = 0,94 m² K/W
Dynamische Steifigkeit s´	≤ 7 MN/m³
Nutzlast	bis 3 kPa (kN/m²)
Zusammendrückbarkeit	c ≤ 5 mm
Verlegeraster	50 mm
Folienüberlappung	ca. 30 mm
Rohrdurchmesser	bis 20 mm
Brandverhalten (ohne Folie u. Kleber)	A1 (DIN EN 13501) nichtbrennbar
Plattenmaß	1000 x 1200 x 30 mm
Verpackung	5 Stk. (6 m²) / Paket

Arbeitssicherheit: Verschmutzung der Arbeitsstätten so gering wie möglich halten. Schutzbrille, geschlossene Arbeitskleidung und Handschuhe tragen. Bei empfindlicher Haut geeignete Schutzcreme oder Lotion benutzen. Nach Beendigung der Arbeiten Staub mit kaltem Wasser abwaschen.

EQ Randdämmstreifen 10/160 mm

Randdämmstreifen aus Polyethylen-Schaum, oberseitig mit Abrissschlitzungen, selbstklebend mit wandseitigem Klebestreifen (mit Schutzfolie) zur sichern Fixierung an der Wand sowie vorderseitigem Folienflansch mit Klebestreifen (mit Schutzfolie) zum sicheren Anschluss an die Dämmstoffabdeckung, zur Trennung von Estrichen und Bodenbelägen von Wänden und anderen aufragenden Bauteilen gemäß DIN 18560 und DIN EN 1264, geeignet für Zement- und Fließestriche bei Flächenheiz- und Kühlsystemen.

Abmessungen Schaum (T / H / L)	10 x 160 mm x 25 m
Raumgewicht	18 kg/m³ (+/- 2 kg)
Farbe PE-Schaum	Magenta
Aufdruck	EQtherm
Schlitzung	5 x 10 mm
Breite wandseitiger Klebestreifen	25 mm (gekämmt)
Abmessung Folienflansch	155 x 0,02 mm
Breite Klebestreifen auf Folienflansch	10 mm
Baustoffklasse	B2 (DIN 4102)
Lieferform	Rolle a´ 25 m
Verpackung	4 Rollen im Folienbeutel a´ 100 m

EQ Heiz- und Kühlrohre Klett PROtec 5 Speed 16 x 1,5 mm

Art.-Nr.: 101652

Verlegefertige Rohre aus PE-RT (Dowlex 2388) nach DIN 16833/16834, sauerstoffdicht nach DIN 4726 durch tief in der Rohrwand geschützt liegender EVOH Sperre und außen spiralförmig aufgebrachtem Klett-Hakenband zur Montage auf EQtherm Klett-Platten, für flächenintegrierte Heiz- und Kühlsysteme zum Einsatz in Gebäuden gemäß DIN EN 1264.

Nenndurchmesser außen	16 mm
Nenndurchmesser innen	13 mm
Dichte (DIN 53479) bei 23°C	≈ 0,933 g/cm³
Kerbschlagzähigkeit (DIN EN ISO 179-1/2) bei 23°C	kein Bruch
Reisfestigkeit (DIN EN ISO 6259-1) bei 23°C	35 N/mm²
Zugfestigkeit (DIN EN ISO 6259-1) bei 23°C	34 N/mm²
Reißdehnung (DIN EN ISO 6259-1) bei 23°C	> 800 %
Therm. Längenausdehnungskoeffizient (DIN 16833)	1,9 x 10^{-4}
Wärmeleitfähigkeit (DIN 16833)	0,4 W/(K * m)
Kleinster Biegeradius (DIN 4721)	≥ 5 * D
Sauerstoffdurchlässigkeit (DIN 4726) bei 40°C	≤ 0,32 mg (m²*d)
Anwendungsklasse (ISO 10508)	4 / 5
Farbe	Magenta
DIN Certco Registernummer	3V336 (beantragt)
Lieferform	Rollen a´ 400
Verpackung	auf Palette mit Schutzfolie
max. Betriebsdruck (ISO 10508) bei 70°C	6 bar
max. Temperaturbelastung/Dauerbelastung	95°C / 70°C



