



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

1199-10-1000

MHM

Product group: Systems - Construction timber & laths



MHM Entwicklungs GmbH
Kemptener Straße 1
87749 Hawangen



Product qualities:

| | | | |
|---|--|--|--|
| QNG Qualitätssiegel Nachhaltiges Gebäude ✓ | DGNB NEW CONSTRUCTION 2023.2 ✓ | DGNB NEW CONSTRUCTION 2023 ✓ | DGNB NEW CONSTRUCTION 2018 ✓ |
| BNB-BN NEUBAU V2015 ✓ | EU TAXONOMY ✓ | BREEAM DE NEUBAU 2018 ✓ | LEED v4.1 (outside US) ✓ |



Köttner

Helmut Köttner
Scientific Director
Freiburg, 30 June 2026



Contents

| | |
|--|----|
| ■ QNG - Qualitätssiegel Nachhaltiges Gebäude | 1 |
| ■ DGNB New Construction 2023.2 | 2 |
| ■ DGNB New Construction 2023 | 3 |
| ■ DGNB New Construction 2018 | 5 |
| ■ BNB-BN Neubau V2015 | 6 |
| ■ EU taxonomy | 7 |
| ■ BREEAM DE Neubau 2018 | 8 |
| ■ LEED v4.1 | 9 |
| Product labels | 10 |
| Legal notices | 11 |
| Technical data sheet/attachments | 11 |

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SHI Product Passport no.:

1199-10-1000



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 | | | QNG ready - Not relevant for assessment |

Verification: Das Produkt ist nicht bewertungsrelevant, da es aus mechanisch verbunden Massivholzteilen ohne Verleimung besteht.



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SHI Product Passport no.:

1199-10-1000



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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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 |
| Verification: Auf Grund der Luftpolsternuten in den einzelnen Lamellen, ergibt sich eine circa 20% besserer Wärmeleitfähigkeit gegenüber Vollholz. Damit wird der Energieverbrauch gesenkt. | |

| Criteria | Assessment |
|--|---|
| ECO2.6 Climate resilience (*) | May positively contribute to the overall building score |
| Verification: Durch die von Natur aus vorhandene geringe Wärmeleitfähigkeit, kann die MHM durch den massiven Aufbau einen großen Beitrag zum Wärmeschutz und sommerlichen Hitzeschutz bieten. | |

| Criteria | Assessment |
|---|---|
| SOC1.1 Thermal comfort (*) | May positively contribute to the overall building score |
| Verification: Durch die hygroskopische Eigenschaft der MHM-Wand sorgt sie dafür, dass Feuchtigkeit aus dem Wohnraum aufgenommen und wieder abgegeben wird. | |

| Criteria | Assessment |
|--|---|
| SOC1.3 Sound insulation and acoustic comfort (*) | May positively contribute to the overall building score |
| Verification: Die gute Schalldämmung wird durch die hohe Grundmasse der MHM-Wand und durch den lagenweisen, vernagelten und dadurch dämpfenden Aufbau erreicht. | |



| Criteria | Assessment |
|---|---|
| SOC1.2 Indoor air quality (*) | May positively contribute to the overall building score |
| Verification: MHM ist diffusionsoffen und ist somit in der Lage Luftfeuchtigkeit zu transportieren. Sie besteht aus natürlichem, getrockneten Seitenware-Brettern und einem sehr geringen Anteil an Alu. | |

| 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) | | | Not relevant for assessment |



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SHI Product Passport no.:

1199-10-1000



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 |



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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 | | | Not relevant for assessment |

Verification: Das Produkt ist nicht bewertungsrelevant, da es aus mechanisch verbundenen Massivholzteilen ohne Verleimung besteht.



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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 | | Substances according to Annex C | compliant |
| Verification: Herstellererklärung vom 29.06.2026 | | | |



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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 | | | Not relevant for assessment |



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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 | Considered substances | Assessment |
|-----------------------------------|------------------|-----------------------|-----------------------------|
| EQ Credit: Low-Emitting Materials | | | Not relevant for assessment |



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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/kriterien%20of%20C3%BCr%20Produkte>

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HERSTELLERERKLÄRUNG EU-TAXONOMIE VERORDNUNG

Zur Bestätigung der Konformität gemäß Anlage C zur Vermeidung und Verminderung der Umweltverschmutzung gemäß der Delegierten Verordnung (EU) 2023/2486 der Kommission vom 27. Juni 2023.

Hiermit bestätigen wir:

MHM Entwicklungs GmbH

Kemptener Straße 1

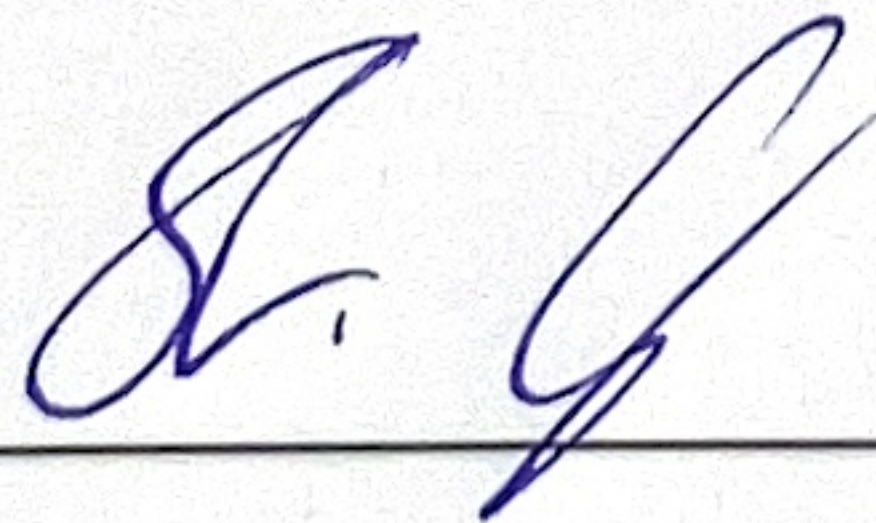
87749 Hawangen

für das folgende Produkt / die folgenden Produkte:

MHM (Massiv-Holz-Mauer)

| | |
|--|-------------|
| Das Produkt/ Erzeugnis/ mindestens ein Teilerzeugnis enthält Stoffe der Kandidatenliste (Version zum Ausstellungsdatum) oberhalb 0,1 Massen%: | nein |
| Das Produkt/Erzeugnis/mindestens ein Teilerzeugnis enthält weitere CMR-Stoffe der Kategorie 1A oder 1B, die nicht auf der Kandidatenliste stehen, oberhalb von 0,1 Massen-% in mindestens einem Teilerzeugnis: | nein |

Hawangen, 29.06.2026



Ort, Datum, Unterschrift, Stempel

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