SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

14607-10-1028

Acoustic Board

Product group: Insulation - Acoustic panels

Repac Montagetechnik GmbH & Co. KG
Ronnenberger Straße 15
30989 Gehrden

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

CERTIFIED SUSTAINABLE PRODUCT
SHI PRODUCT PASSPORT
SENTINEL HOLDING INSTITUT
www.sentinel-holding.eu

Köttner

Helmut Köttner
Scientific Director
Freiburg, 30 March 2026

SENTINEL HOLDING
INSTITUT

Product:
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Repac® PROFESSIONAL

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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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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	Notice
SHI Product Assessment	Insulation materials	TVOC ≤ 300 µg/m³ Formaldehyd ≤ 24 µg/m³	Indoor Air Quality Certified	Konformitätserklärung bestätigt Gültigkeits des NaturePlus Zertifikats bis 15.03.2026

Valid untill: 05 November 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 Schadstoffvermeidung in Baumaterialien	2.4 Underlays for floor coverings	VOC/ emissions / hazardous substances / polycyclic aromatic hydrocarbons (PAH) / nitrosamines	QNG ready
Verification: NaturePlus Zertifikat vom 08.09.2020 / Zertifikats Nr. 0201-2009-170-1. Transferprüfung vom 18.11.2020 (Projekt Nr. NP-20-081) bestätigt die materielle Übereinstimmung mit dem geprüften Produkt			

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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	Assessment
SOC1.2 Indoor air quality (*)	May positively contribute to the overall building score
Verification: SHI Schadstoffgeprüft	

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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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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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

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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	EU taxonomy compliant
Verification: Herstellererklärung vom 18.07.2025			

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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	Normal quality
Verification: NaturePlus Zertifikat vom 08.09.2020 / Zertifikats Nr. 0201-2009-170-1. Transferprüfung vom 18.11.2020 (Projekt Nr. NP-20-081) bestätigt die materielle Übereinstimmung mit dem geprüften Produkt			

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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.

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

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Publisher

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Acoustic Board 1,8 mm
Art.-Nr. 750100

1. Abmessungen

1.1 Länge	0,79 m
1.2 Breite	59 cm
1.3 Stärke	1,8 mm +/- 6%
1.4 Dichte	384 g/m³

2. Werkstoff

2.1 Material	GREEN LIGNIN, Biopolymerstruktur
2.2 Lagerfähigkeit	1 Jahr, ohne direkte Sonneneinstrahlung oder andere Witterungseinflüsse

3. Bauphysikalische Eigenschaften

3.1 Wärmedurchlasswiderstand	0,0343 m²K/W
3.2 Trittschallverbesserung (IS)	22 dB (nach DIN EN ISO 10140-3, 717-2)
3.3 Gehschallverbesserung (RWS)	42,3% DIN 45631 IHD-W 431
3.4 Feuchteschutz (SD)	< 75 m
3.5 Brandschutzklasse	E bzw. E_{fl} (nach EN 13501-1:2010)
3.6 Druckstabilität (CS)	992 kPa (prCEN/TS 16354)
3.7 Kriechwiderstand (CC)	992 kPa (prCEN/TS 16354)
3.8 Unebenheitenausgleich (PC)	>= 0,5 mm
3.9 Stoßbeanspruchung (RLB)	650 mm (Laminatboden)
3.10 Dynam. Beanspruchung (DL)	25.000 Zyklen
3.11 Bauaufs. Zulassung	Z-158.10-123

4. Umwelt und Entsorgung

4.1 Umweltverträglichkeit	keine Umweltbelastung, toxikologisch unbedenklich
4.2 Recycling	energetisch verwertbar
4.3 Entsorgung	über Hausmüll
4.4 Verträglichkeit	keine praxisüblichen Unverträglichkeiten bekannt
4.5 Zertifikate	Blauer Engel

5. Sonstiges

5.1 EAN-Code	4005143750108
5.2 Stat. Warennummer	48059380
5.3 Abfallschlüssel	170604

Grundlage für die Angaben sind unsere Kenntnisse und Erfahrungen in der Praxis. Wegen der Vielfalt möglicher Einflüsse bei der Verarbeitung und Verwendung empfehlen wir, unsere Produkte bei speziellen Anwendungen in eigenen Versuchen zu prüfen. Eine rechtlich verbindliche Zusicherung bestimmter Eigenschaften kann aus unseren Angaben nicht abgeleitet werden. Alle vorherigen Angaben sind hiermit ungültig.

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Herstellererklärung

18.07.2025

Sehr geehrte Damen und Herren,

hiermit bestätigen wir, dass bei der Produktion der Acoustic Board Produkte von folgenden Inhaltsstoffen abgesehen wird:

1) SVHC und CMR-Stoffe der Kategorie 1A und 1B < 0,1%

Mit freundlichen Grüßen



Produktmanagement Boden

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Registergericht: Amtsgericht Hannover, HRA 100599
Persönlich haftende Gesellschafterin:
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