SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

14479-10-1013

43 Expert

Product group: Other - EPS

ISO SPAN Naturbaustoffe
Die Markenwohnwand - natürlich effizient

ISO SPAN Baustoffwerk GmbH
Madling 177
A-5591 Ramingstein

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) ✓

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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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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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

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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	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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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

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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	Sonstige	Stoffe nach Anlage C	compliant
Verification: Herstellererklärung 17.09.2025			

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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			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.

An Environmental Product Declaration (EPD) is an internationally recognised tool for transparently presenting the environmental impacts of products. It is based on ISO 14025 and, for construction products, on EN 15804, and provides standardised data for the entire life cycle, from raw material extraction to disposal. EPDs make it possible to assess the environmental performance of construction products in a traceable way, create comparability, and form an important basis for building certification, sustainable procurement, and compliance with legal requirements.

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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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SGS TÜV SAAR

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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:

Firma ISO SPAN Baustoffwerk GmbH
Madling 177
A-5591 Ramingstein

für das folgende Produkt / die folgenden Produkte:

Innenwandstein, 36,5 Ökopur, 43 Öko Expert, 43 Expert,
36,5 Silver, 43 Expert Plus, 36,5 Isopur

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**

ISO SPAN Naturbaustoffe
Baustoffwerk GmbH
A-5591 Ramingstein 177
Tel. +43 6475-251-0
Fax. +43 6475-378 DW 19
FN 65592 i

Ramingstein, 17/09/2025,

Ort, Datum, Unterschrift, Stempel

Ihr Ansprechpartner für Rückfragen:

Name: Dipl.-Ing. Lasshofer Peter Telefon: +43 6475 251

Mailadresse: peter.lasshofer@isospan.at

ISO SPAN Naturbaustoffe

Expert - der XL Holzbetonstein





Öko-Expert mit integrierter Holzfaserdämmung

Zu den fünf besten Werten des Holzbetons

- Wärmedämmung
- Dampfdiffusion
- Schalldämmung
- Wärmespeicherung
- Erdbebensicherheit

kommt **bester** Feuerwiderstand - REI 180

Ökologisch und nachhaltig

- Wenig Energieaufwand in der Produktion, 100% recyclebar
- Der Baustoff für ein Niedrigenergiehaus oder für ein Passivhaus

Der ISO SPAN Holzbetonstein 43 cm Expert für tragende Außenwände
U-Wert 0,145 W/m²K für Passivhäuser geeignet

Wärmedämmung (in den Stärken 15, 16,5, 20 und 23 cm) und Betonkern (in den Stärken 20, 18,5, 15 und 12 cm).
Je nach bauphysikalischer oder bautechnischer (statischer) Anforderung variierbar.

Die Markenwohnwand
natürlich effizient

klimaaktiv

CE
2631-CPR-0012

www.isospan.eu

Expert 43 cm mit integrierter Wärmedämmung

Verwendung als tragende Außenwände



Expert Öko-Expert

	Technische Daten					Bauphysikal. Daten		
Stein-bezeichnung	Breite Höhe Länge	Betonkerndicke	Füllbeton	Bedarf an Steinen	Wandge-wicht ohne Putz	R	U	Rw
	cm	cm	Lt/m²	Stk./m²	kg/m²	m²K/W	W/m²K	dB
Expert 43/15 Riegelstein	43 25 125	20	162	3,20	441,4	4,780	0,202	61
Expert 43/15 Eckstein	43 25 93			4,30				
Tragende Außenwand 15 cm EPS Zusatzdämmung								
Expert 43/16,5 Riegelstein	43 25 125	18,5	150	3,20	413,5	5,145	0,188	60
Expert 43/16,5 Eckstein	43 25 93			4,30				
Tragende Außenwand 16,5 cm EPS Zusatzdämmung								
Expert 43/20 Riegelstein	43 25 125	15	121	3,20	348,4	6,002	0,162	58
Expert 43/20 Eckstein	43 25 93			4,30				
Tragende Außenwand 20 cm EPS Zusatzdämmung								
Skizze wie oben - Expert 43/20								
Öko-Expert 43/20 Riegelstein	43 25 125	15	121	3,20	370,7	5,111	0,189	59
Öko-Expert 43/20 Eckstein	43 25 93			4,30				
Tragende Außenwand 20 cm Holzfaser Zusatzdämmung								
Expert 43/23 Riegelstein	43 25 125	12	97	3,20	292,7	6,731	0,145	56
Expert 43/23 Eckstein	43 25 93			4,30				
Tragende Außenwand 23 cm EPS Zusatzdämmung für Passivhäuser geeignet								
Skizze wie oben - Expert 43/23								
Öko-Expert 43/23 Riegelstein	43 25 125	12	97	3,20	318,3	5,714	0,170	57
Öko-Expert 43/23 Eckstein	43 25 93			4,30				
Tragende Außenwand 23 cm Holzfaser Zusatzdämmung								

ISO SPAN Baustoffwerk GmbH

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