



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

12895-10-1006

Rockpanel Bekleidungsplatte Uni, 6 mm

Product group: Facade cladding



Rockpanel – Part of ROCKWOOL Group
Konstruktieweg 2
6045 JD Roermond



Product qualities:



Köttner

Helmut Köttner
Scientific Director
Freiburg, 12 March 2026



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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

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
ECO1.1 Life cycle cost (*)	May positively contribute to the overall building score
Verification: Broschüre Instandhaltung / Wartung / Reinigung	

Criteria	Assessment
ENV1.1 Climate action and energy (*)	May positively contribute to the overall building score
Verification: Circularity Data Report 6341, RockCycle®, Demontageanleitung.	

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



Criteria	Quality level
ENV1.3 Responsible resource extraction	May positively contribute to the overall building score
Verification: C2C	



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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 30.10.2024			



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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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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.



The C2C label identifies products whose design concept follows a "cradle-to-cradle" approach based on a closed raw material cycle, rather than merely offering simple recycling or disposal options. At the "Gold" and "Platinum" levels, emission criteria are also taken into account. However, the requirements are less strict than those necessary for a direct SHI Indoor Air Quality certification.



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 IBU ("Institut Bauen und Umwelt e.V.") is an initiative of building product manufacturers committed to sustainability in construction. It serves as the programme operator for Environmental Product Declarations (EPDs) in accordance with the EN 15804 standard. The IBU EPD programme provides comprehensive life cycle assessments and environmental impact data for construction products, supported by independent third-party verification.



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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%20Pr%C3%BCfverfahren%20Produkte>

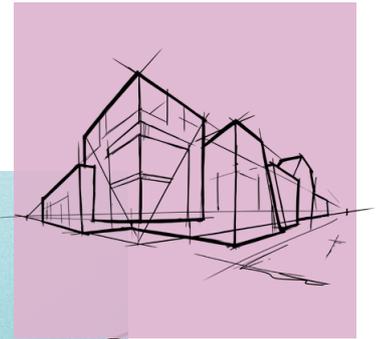
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www.sentinel-holding.eu

Safe Use Instructions Sheet



Rockpanel

Safe Use Instructions Sheet

1. Product and company identification

Generic product name	ROCKPANEL	
Recommended use	Robust and flexible board material for use in facades, roof edge finishing, fascias and other detailing.	
Producer	ROCKWOOL B.V. / ROCKPANEL Konstruktieweg 2 6045 JD ROERMOND THE NETHERLAND	Tel.: +31 (0)475 353 000 Fax: +31 (0)475 353 550 Email: info@rockpanel.com
Emergency telephone number	+31 (0)475 353 000	

2. Hazards identification

Most important hazards	There is no Hazard statement associated with this product.
Specific hazards	Non applicable.

3. Composition / information on ingredients

Substance	C.A.S. number ⁽³⁾	Amount weight (%)	Classification and labelling (Regulation (CE) N° 1272/2008)	Classification and labelling (European directive 67/548/EEC)
Stone wool ⁽¹⁾	287922-11-6	84 – 92%	Not classified ⁽²⁾	Not classified
Binder		7 – 15%	Not classified	Not classified
Cured Coating		0 – 2.5%	Not classified	Not classified

(1): Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content greater than 18% by weight and fulfilling one of the nota Q conditions

(2): Non classified H351 "suspected of causing cancer". Stone wool fibres are not classified carcinogenic according to the nota Q of the Directive 97/69/EEC and the regulation n° 1272/2008 (page 335 of the JOCE L353 of December 31, 2008)

(3): C.A.S. : Chemical Abstract Service

4. First aid measures

Information according to the different exposure route for dust:

Inhalation	Remove from exposure. Rinse the throat and blow nose to clear dust.
Skin contact	If itching occurs, remove contaminated clothing and wash skin gently with cold water and soap.
Eyes contact	Rinse abundantly with water for at least 15 minutes.
Ingestion	Drink plenty of water if accidentally ingested.

If any adverse reaction or discomfort continues from any of the above exposures, seek medical professional advice.

(1): The European Regulation (ER) on Chemicals N° 1907/2006 (REACH) enforced on June 1st 2007 requires Material Safety Data Sheet (MSDS) only for hazardous substances and mixtures/preparations. Mineral wool products (like panels), are articles under REACH and therefore, MSDS is not legally required. Nevertheless, ROCKWOOL decides to provide its customers with the appropriate information for assuring safe handling and use of mineral wool through this Safe Use Instructions Sheet.

Rockpanel

Safe Use Instructions Sheet

5. Fire fighting measures

Suitable extinguishing media	ROCKPANEL board material is subject to thorough testing and is a fire-safe building material. In the event of a fire the mineral wool structure of ROCKPANEL board material remains fully intact. There is absolutely no drop-formation and the risk of fire spreading is prevented. Packaging materials or facings may however be combustible. Suitable extinguishing media; water, foam, carbon dioxide (CO ₂), and dry powder. In large fires in poorly ventilated areas or involving packaging materials respiratory protection / breathing apparatus may be required.
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6. Accidental release measures

Personal precautions	In case of presence of high concentrations of dust, use the same personal protective equipment as mentioned in section 8.
Environmental protection	Not relevant.
Methods for cleaning up	Clean with vacuum or dampen with water spray prior to sweeping up.

7. Handling and storage

Handling

Technical measures	No specific measures. ROCKPANEL advises that users should wear standard personal protection equipment during sawing. Use hard point hand saw. Circular saw e.g. fine-toothed Widea saw blade. Fretsaw, e.g. fine-toothed saw blade or a saw blade with tungsten granules. We advice to use dust-reducing equipment in combination with an exhaust hood in a well ventilated room when sawing indoor. In case of outdoor sawing we advice to use dust-reducing if a power tool is used, it must be equipped with efficient air suction. Position the saw installation so that the wind blows away the released dust.
Precautions	Ensure adequate ventilation of workplace. See section 8.
Safe handling advice	Not relevant.

Storage

Technical measures	No special measures necessary.
Suitable storage condition	ROCKPANEL boards are insensitive to moisture. Nevertheless it is recommended that the board material be stored on a flat pallet in dry, flat, frost-proof and protected conditions. Never stack more than two pallets on top of each other. The panels should be raised when being machined. The panels should not be slid over one another. Protective foam membranes should be placed between the sheets again to protect the surface layer, for example when the panels are stacked after having been sawn.
Incompatible materials	None.
Packaging material	Products are packed in polyethylene film on wooden pallet.

Rockpanel

Safe Use Instructions Sheet

8. Exposure controls / personal protection

Exposure Limit Value	None at European level.
Exposure controls	No specific requirements.
Individual protection equipments	
Respiratory protection	When working in unventilated area or during operations which can generate emission of any dust, wear a disposable face mask. Type in accordance with EN 149 FFP1 is recommended.
Hand protection	Use gloves to avoid itching in conformity with EN 388
Eyes protection	Wear goggles when working overhead. Eye protection according with EN 166 is advised.
Skin protection	When working in unventilated area we recommend to cover exposed skin.
Hygiene measures	Rinse in cold water before washing

The following sentence and pictograms are printed on packaging.
The mechanical effect of fibres in contact with skin may cause temporary itching



Ventilate working area if possible.



Clean area using vacuum equipment.



Waste should be disposed of according to local regulations.



Wear goggles when working overhead.



Cover exposed skin.
When working in unventilated area wear disposable face mask.



Rinse in cold water before washing.

Rockpanel

Safe Use Instructions Sheet

9. Physical and chemical properties

Physical state	Solid.
Form	Articles in panel or plank form.
Colour	Grey green (basic board).
Odour	Not applicable.
pH	Not applicable.
Boiling point	Not relevant.
Flash point	Not relevant.
Flammability	Not relevant.
Explosive properties	Not relevant.
Density	From 1000 to 1300 kg/m ³ .
Water solubility	Generally chemically inert and insoluble in water.
Fat solubility	Not applicable.
Melting point	> 1000 °C.

10. Stability and reactivity

Stability	Binder will decompose above ca. 200°C.
Dangerous reactions	None, when the product is applied according to recommended use (see 1.).
Hazardous decomposition products	None, when the product is applied according to recommended use (see 1.).

11. Toxicological information

Acute effect	The mechanical effect of fibres in contact with the skin can cause a temporary itching.
Carcinogenic effect	Classification not applicable for mineral wool in this product; in accordance with the directive 97/69/EC and European Regulation 1272/2008, nota Q. (see 15.)

12. Ecological information

This product is not expected to cause harm to animals or plants during normal conditions of use.

Acute effect

13. Disposal considerations

Waste from residues	Dispose of in accordance with regulations and procedures in force in country of use or disposal.
Dirty packaging	Dispose of in accordance with local regulations.
Code from European Waste Catalogue	17 06 04.

Rockpanel

Safe Use Instructions Sheet

14. Transport information

International regulations	No specific regulations.
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15. Regulatory information

The European directive 97/69/EC replaced by the regulation (EC) N° 1272/2008 concerning the classification, labelling and packaging of the substance and the mixtures does not classify Stone wool fibres as hazardous, if they are in compliance with the note Q of this Regulation.

The note Q specifies that classification as carcinogenic does not apply if:

- a short-term biopersistence test by inhalation has shown that fibres longer than 20µm have a weight half life **less than 10 days**, or
 - a short-term biopersistence test intra-tracheal instillation has shown fibres longer than 20µm have a weighted half life **less than 40 days**, or
 - an appropriate intra-peritoneal test has shown no evidence of excess carcinogenicity, or
 - a suitable long term inhalation test has shown absence of relevant pathogenicity or neoplastic changes.
- Binder will decompose above ca. 200°C.

16. Other information

The Stone wool fibres of this product are exonerated from the carcinogenic classification according to the European directive 97/69/CE and the Regulation (EC) 1272/2008 if they fulfil one of the criteria of the nota Q of these texts. All products manufactured by Rockpanel are made of non-classified fibres and are certified by EUCEB.

EUCEB, European Certification Board of Mineral Wool Products - www.euceb.org, is a voluntary initiative by the mineral wool industry. It is an independent certification authority that guarantees that products are made of fibres, which comply with the exoneration criteria for carcinogenicity (Note Q) of the Directive 97/69/EC and the Regulation (EC) 1272/2008. To ensure that fibres comply with the exoneration criteria all tests and supervision procedures are carried out by independent, expert qualified institutions. EUCEB ensures that the producers of mineral wool have put in place self-control measures.

The mineral wool producers commit to EUCEB to:

- supply sampling and analysis reports established by laboratories recognized by EUCEB, proving that the fibres comply with one of the four criteria of exoneration described in Note Q of the Directive 97/99/EC,
- be controlled, twice per year, of each production unit by an independent third party recognized by EUCEB (sampling and conformity to the initial chemical composition),
- put in place procedures of internal self-control in each production unit.

Persons who wish to obtain more detailed information have to contact the producer (see address on the first page of this sheet) Information given in this document is on the state of our knowledge regarding this material as January 4th, 2021. It is given in good faith.

The attention of users is drawn to possible risks taken when the product is used for other application than the ones it has been designed for.

Date: 23 July 2025

Declaration of Absence of Substances of Very High Concern (SVHCs) and CMR substances

We, Rockpanel, hereby declare that our products do not contain any Substances of Very High Concern (SVHCs) as outlined under Article 33 of the REACH Regulation (EC) No 1907/2006.

Our review and assessment are based on the latest Candidate List published by the European Chemicals Agency (ECHA). We ensure that our products comply with the requirements and obligations under REACH, and we are committed to maintaining the highest standards of safety and regulatory compliance.

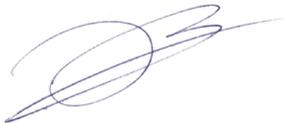
Our products do not contain any CMR (carcinogenic mutagenic reprotoxic) substances of categories 1A/1B in a concentration above 0.1%.

This counts for all Rockpanel board compositions.

Should you need any further information or have any questions regarding this declaration, please feel free to contact us.

Thank you for your attention to this matter.

Sincerely,



John Relou M.Sc.

Technical Marketing Manager / PAO

ROCKWOOL BV / Rockpanel

john.relou@rockpanel.com

Part of the ROCKWOOL Group

ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	ROCKWOOL A/S
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-RWI-20240556-CBA2-EN
Issue date	25/04/2025
Valid to	24/04/2030

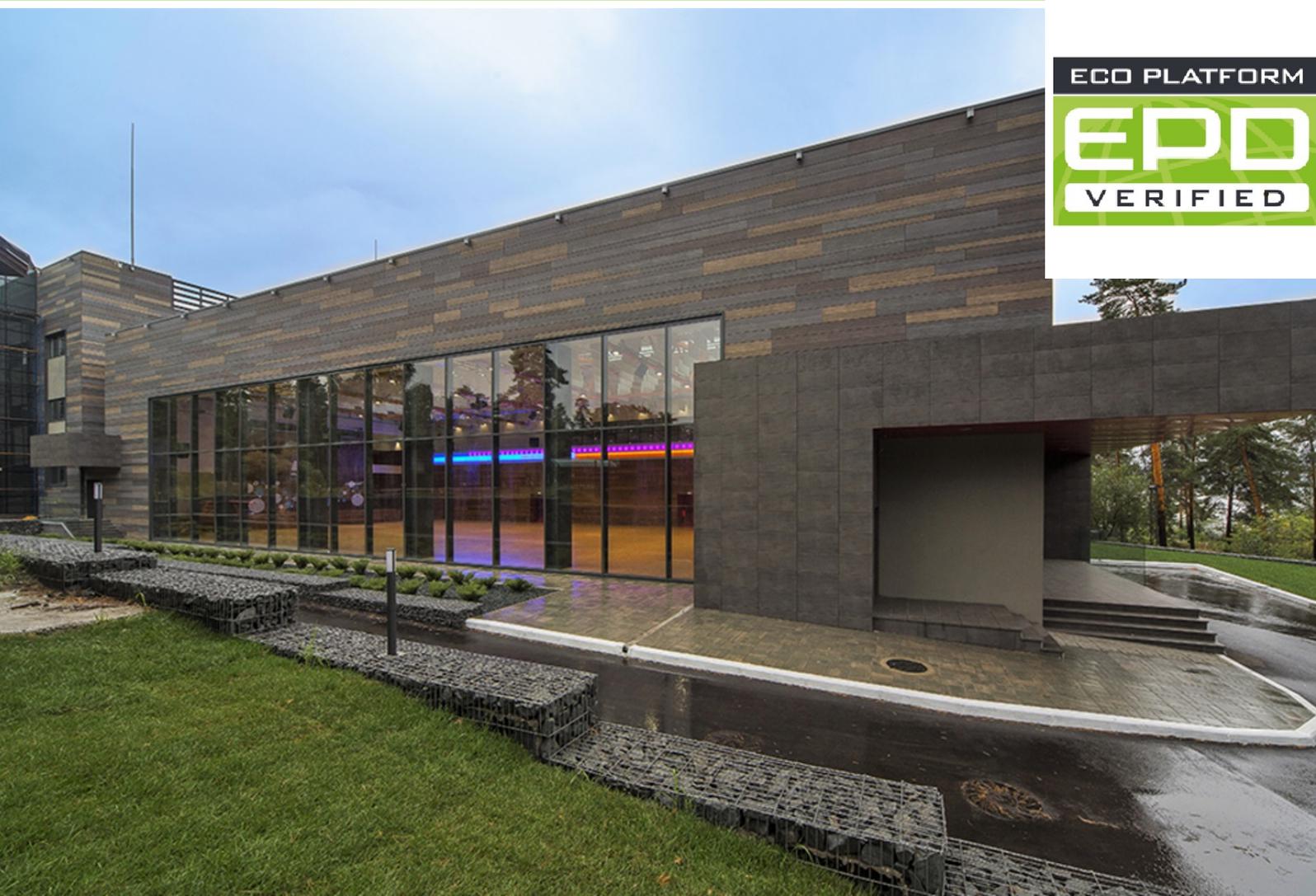
**Rockpanel Durable 6 mm finish Uni
ROCKWOOL A/S.**

www.ibu-epd.com | <https://epd-online.com>



ECO PLATFORM

EPD
VERIFIED



General Information

ROCKWOOL A/S.

Programme holder

IBU – Institut Bauen und Umwelt e.V.
Hegelplatz 1
10117 Berlin
Germany

Declaration number

EPD-RWI-20240556-CBA2-EN

This declaration is based on the product category rules:

Mineral insulating materials, 01/08/2021
(PCR checked and approved by the SVR)

Issue date

25/04/2025

Valid to

24/04/2030



Dipl.-Ing. Hans Peters
(Chairman of Institut Bauen und Umwelt e.V.)



Florian Pronold
(Managing Director Institut Bauen und Umwelt e.V.)

Rockpanel Durable 6 mm finish Uni

Owner of the declaration

ROCKWOOL A/S
Hovedgaden 584
2640 Hedehusene
Denmark

Declared product / declared unit

1 m² of Rockpanel Durable 6 mm cladding panel.

Scope:

This declaration refers to Rockpanel Durable 6 mm finish Uni, produced by Rockpanel, part of ROCKWOOL Group. The declared reference product in this EPD is 1m² Rockpanel Durable 6 mm Cladding Panel for facade cladding, roof detailing, soffits and fascias.

The Rockpanel products presented in this declaration are produced in Roermond (Netherlands).

The production data correspond to the full year 2022.

The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as *EN 15804*.

Verification

The standard EN 15804 serves as the core PCR	
Independent verification of the declaration and data according to ISO 14025:2011	
<input type="checkbox"/>	internally
<input checked="" type="checkbox"/>	externally



Ms Jane Anderson,
(Independent verifier)

Product

Product description/Product definition

Rockpanel stone wool facade panels are prefabricated compressed mineral wool products with thermosetting binders.

They are traditionally made from volcanic rock (typically basalt or dolomite), and of recycled material and finished with a cured (waterborne) coating and in some cases an additional Protect Plus Coating. Rockpanel Durable 6 mm finish Uni products have a layer of waterborne coating.

The unfaced and coated synthetic resin-bonded stone wool products described in this declaration are produced in the form of panels in densities of 1050 kg/m³ with 6 mm thickness. For the placing of the product on the market in the European Union/European Free Trade Association (EU/EFTA) (with the exception of Switzerland) the *Regulation (EU) No. 305/2011 (CPR)* applies. The product needs a declaration of performance taking into consideration:

- *ETA-08/0343 of 2025/02/10 For Rockpanel Durable 6 mm finish Uni.*

For the application and use the respective national provisions apply.

Application

The Rockpanel Durable 6 mm finish Uni, contained in this EPD, are cladding panels for facade applications, offered with a density of 1050 kg/m³ and a thickness of 6 mm.

Technical Data

For the products where the above declared properties apply, the performance data are in accordance with the declaration of performance with respect to its essential characteristics according to European Assessment Document (EAD) no. *EAD 090001-00-0404* for Prefabricated compressed mineral wool boards with organic or inorganic finish and with specified fastening system, edition May 2015.

The technical specifications for the products described in the EPD are given below based on the reference standards. For the product specific characteristics please refer to the manufacturer's specifications, available online in <http://www.rockpanel.com/>.

Constructional data

The table below refers to technical specifications for Rockpanel Durable 6 mm finish Uni.

Name	Value	Unit
Thermal conductivity acc. to EN 10456	0.37	W/(mK)
Maximum board size	3050x1250	mm x mm
Density (nominal) acc. to EN 323	1050	kg/m ³
Mass (nominal)	6,3	kg/m ²
Characteristic bending strength acc. to EN 3120; EN 1058	length and width f_{05} greater than or equal to 27 (N/mm ²)	N/mm ²
Modulus of elasticity acc. to EN 310	4015	N/mm ²
Vapour transmission Sd at 23°C and 65% RH acc. to ISO 12572:2016	1,8	m
Dimensional Stability acc. to EN 438-2	10.5	(10–6 K-1)

Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to the following:

- *ETA-08/0343 of 2025/02/10 For Rockpanel Durable 6 mm finish Uni.*

Base materials/Ancillary materials

The average composition used for this EPD is the following (based on the average factory consumption figures for Rockpanel production):

- non-scarce natural stones [32%]
- cement [8%]
- slags and other secondary materials or waste materials [46%]
- mineral oil and bonding agent [0,5%]
- binder [11%]
- coating [3,6%]

Packaging represents 6% of the final product delivered to the customer. The raw materials are non-scarce stones, secondary materials and briquettes, which are made of rock mineral wool waste, secondary materials and by-products from other industries such as slags, alumina and wool waste and cement. The binder is a phenol formaldehyde resin which is polymerized into solid resin during the production of the final stone wool product. The coating when present is a waterborne acrylic coating and an additional (optional) PU coating also referred to as Protect Plus. The products described in this EPD, Rockpanel Durable 6 mm finish Uni contain only the water based coating. This product/article/at least one partial article contains substances listed in the candidate list (*ECHA PR/19/12*) (date: 16.07.2019) exceeding 0.1 percentage by mass: no. Mineral wool fibres produced by ROCKWOOL are classified as non-hazardous under *REACH* (Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures). ROCKWOOL are registered with *REACH* under the following definition: 'Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content greater than 18% by weight and fulfilling one of the Note Q conditions'. ROCKWOOL products produced in Europe fulfil the Note Q requirements. This is certified by the independent certification body *EUCEB* (European Certification Board for mineral wool products). More information on *EUCEB* can be found under www.euceb.org.

Reference service life

Assumed intended working life of Rockpanel Durable 6 mm finish Uni boards is 60 years, provided that they are subject to appropriate use and maintenance; this is in line with the results of an independent accelerated durability test, done by Bouw Technologie and available from Rockpanel Group upon request. Reference Service life is minimum 60 years according to *EAD 090001-01-0404*. The specific *ETA* provide assumed intended working life of 50 years.

It is expected that under normal use conditions the actual service life will be considerably longer without major degradation affecting the essential requirements. Indications given as to the working life of the boards cannot be interpreted as a guarantee given by ROCKWOOL B.V. / Rockpanel.

LCA: Calculation rules

Declared Unit

The specific product referred to in the declared unit is 1 m² of Rockpanel Durable cladding panel. The reference product has a thickness of 6 mm and a density of 1050 kg/m³.

Declared unit

Name	Value	Unit
Declared unit	1	m ²
Gross density	1050	kg/m ³
Grammage	6.4	kg/m ²
Surface	1	m ²
Layer thickness	0.006	m
Weight	6.4	kg
Conversion Factor to m3	166.7	

System boundary

EPD type: **Cradle to gate with options, modules C1–C4, and module D**. The modules considered in the life cycle assessment as per system boundaries are described as follows:

Production

The product stage A1-A3 includes:

Provision of preliminary products and energy and relevant upstream processes;

- Transporting the raw materials and preliminary materials to ROCKWOOL production facilities;
- Production process in the ROCKWOOL production facilities including energy inputs and emissions;
- Electricity consumption, from purchased Renewable Energy Certificates (REC);
- Waste processing up to the end-of-waste state or disposal of waste residues, during the production stage;
- Production of packaging material;
- Manufacturing of products and co-product.

The environmental impact of co-products from the steel and coal fired electricity production (slags, alumina and ashes entering the system as inputs to the manufacturing) is accounted for. Recycled stone wool comes free of environmental burden, as it enters the product system as waste. Their transport to the factory is accounted for. Modules A1, A2 and A3 are declared as an aggregated module A1-A3.

Construction/Installation

The Construction Stage A4-A5 includes:

- A4 transport to the building site
- A5 installation to the building

The transport in A4 is modelled based on the amount of panels that fit in the truck. The values are based on annual average delivery data. In A5 the default installation is assumed to be manual, therefore no energy consumption or ancillary equipment is needed. The product waste from installation is

assumed to be 5% and according to the modularity principle of *EN 15804*, its impacts are fully allocated to A5.

The A5 stage, according to *EN 15804* includes also waste processing up to the end-of-waste state or disposal of final residues during the construction process stage and impacts and aspects related to product losses during installation. Finally, the A5 module includes also the corresponding end-of-life considerations for packaging. The default assumption here for installation waste is 100% landfill.

Building Use

The use-stage B1-B7, related to the building fabric includes:

- B1 – Use or application of the installed product;
- B2 – Maintenance;
- B3 – Repair;
- B4 – Replacement;
- B5 – Refurbishment;
- B6 – Operational energy use;
- B7 – Operational water use;

Rockpanel Stone wool cladding panel is installed permanently in the structure and does not require maintenance, repair, replacement or refurbishment under normal use conditions. Similarly, Rockpanel has no operational energy or water use. Functionality is maintained usually for 60 years when coating is present. This, as mentioned earlier can be backed up by the independent accelerated Durability Test by Bouw Technologie and also by the product specific *ETA*.

End of Life

The End-of-life stage C1-C4 includes:

- C1 de-construction, demolition;
- C2 transport to waste processing;
- C3 waste processing for reuse, recovery and/or recycling;
- C4 disposal.

These stages also include provision and all transport, provision of all materials, products and related energy and water use. Manual deconstruction is assumed for C1 and no impacts are assigned. The benefits from disposal (heat or electricity recovery) are assigned to module D.

Module D includes reuse, recovery and/or recycling potentials expressed as net loads and benefits. Here the loads from the packaging disposal in A5 and from electricity generation on landfill are considered.

The product system with the system boundaries is presented in the graph below:

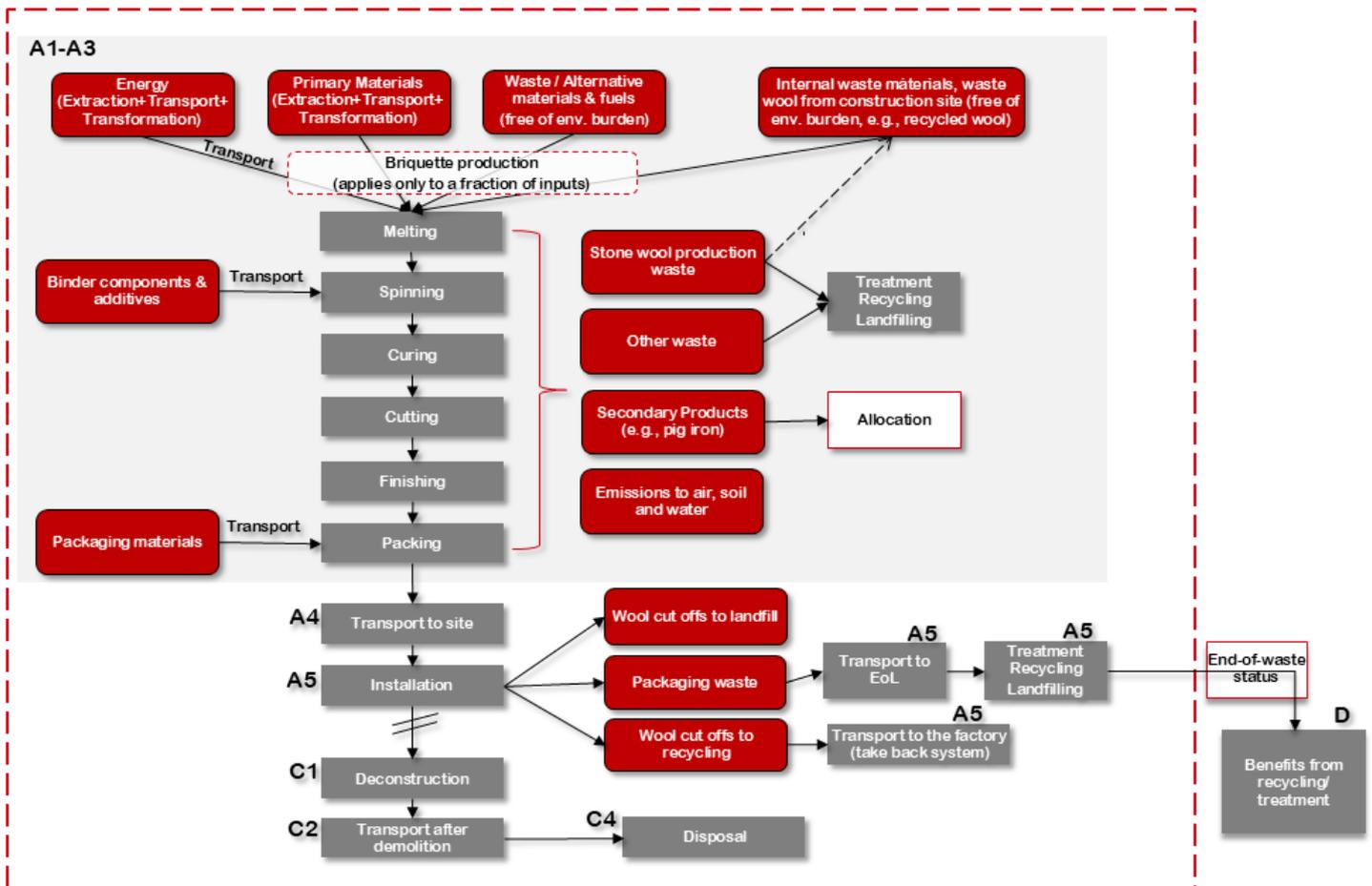


Figure 1: Product system with system boundaries

Geographic Representativeness

Land or region, in which the declared product system is manufactured, used or handled at the end of the product’s lifespan: Europe

Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account. The used software for the development of the declaration was "LCA for experts" (formerly known as *GaBi*) software version 10.7.1.28 was used, and database version 2023.2. EF reference package 3.1.

LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

The biogenic carbon content quantifies the amount of biogenic carbon in a construction product leaving the factory gate, and it shall be separately declared for the product and for any accompanying packaging.

If the total mass of biogenic carbon containing materials is less than 5 % of the total mass of the product and accompanying packaging, the declaration of biogenic carbon content may be omitted. The mass of packaging containing biogenic carbon shall always be declared.

Information on describing the biogenic carbon content at factory gate

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging	0.0222	kg C

Note: per kg of product

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO₂.

The following technical information for the declared modules can be used for scenario development in a building context.

Transport to the building site (A4)

Name	Value	Unit
Transport distance	673	km
Capacity utilisation (including empty runs)	85	%
Gross density of products transported	1050	kg/m ³

Installation into the building (A5)

Name	Value	Unit
Electricity consumption	-	kWh
Material loss	5	%

Reference service life according to BBSR 2017

Name	Value	Unit
Code 335.611: Cavity wall insulation	≥ 50	a
Code 335.641: External thermal insulation composite system (ETICS)	40	a
Code 345.316: Special cladding: Thermal insulation (interior)	≥ 50	a
Code 352.121: Impact sound insulation	≥ 50	a
Code 352.122: Floor insulation, including insulation of the top floor	≥ 50	a
Code 353.421: Insulation of the cellar ceiling	≥ 50	a
Code 363.531: Insulation above and between rafters	≥ 50	a
Code 364.211: Insulation above, between and under rafters	≥ 50	a

For design applications, please refer to the manufacturer's guidelines. The life span value applies only under the assumption of proper installation and use conditions under the manufacturer's specification.

End of life (C1 - C4)

Name	Value	Unit
Landfilling	6.3	kg
Transport to landfill	50	km

Reuse, recovery and/or recycling potentials (D), relevant scenario information

Any declared benefits and loads from net flows leaving the product system that have not been allocated as co-products and that have passed the end-of-waste state are included in module D. Such declared benefits can occur in stages A5 and C4. The generated energy, such as heat and electricity from waste incineration of packaging is assigned to module D. The benefits are calculated using current average substitution processes. The heat is credited for with heat from natural gas. The electricity is credited for with the specific country's electricity mix. This is also applied for materials that are landfilled as the benefits from electricity production from landfill gas recovery are included in module D.

LCA: Results

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

Product stage			Construction process stage		Use stage							End of life stage				Benefits and loads beyond the system boundaries
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	MND	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 m² Rockpanel Durable 6 mm finish Uni with an Rd - value of 0.016

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq	8.12E+00	3.38E-01	8.37E-01	0	0	3.01E-02	0	2.01E-01	-4.33E-01
GWP-fossil	kg CO ₂ eq	8.29E+00	3.35E-01	6.1E-01	0	0	3.02E-02	0	1.06E-01	-2.55E-01
GWP-biogenic	kg CO ₂ eq	-1.65E-01	0	2.27E-01	0	0	0	0	0	-1.78E-01
GWP-luluc	kg CO ₂ eq	2.34E-03	3.09E-03	3.14E-04	0	0	2.8E-04	0	3.05E-04	-4.15E-05
ODP	kg CFC11 eq	5.12E-08	2.93E-14	2.77E-09	0	0	2.65E-15	0	9.8E-15	-1.08E-12
AP	mol H ⁺ eq	4.35E-02	4.63E-04	2.38E-03	0	0	3.78E-05	0	7.57E-04	-5.55E-04
EP-freshwater	kg P eq	1.79E-04	1.22E-06	9.97E-06	0	0	1.1E-07	0	8.21E-07	-4.56E-07
EP-marine	kg N eq	9.27E-03	1.49E-04	5.89E-04	0	0	1.3E-05	0	2.06E-04	-1.02E-04
EP-terrestrial	mol N eq	1.31E-01	1.79E-03	7.28E-03	0	0	1.57E-04	0	2.18E-03	-1.07E-03
POCP	kg NMVOC eq	2.72E-02	3.85E-04	1.62E-03	3.71E-10	0	3.25E-05	0	6.35E-04	-3.43E-04
ADPE	kg Sb eq	1.39E-06	2.17E-08	6.76E-08	0	0	1.96E-09	0	9.82E-09	-1.64E-08
ADPF	MJ	1.14E+02	4.55E+00	6.55E+00	0	0	4.11E-01	0	1.44E+00	-5.62E+00
WDP	m ³ world eq deprived	2.42E+00	3.84E-03	1.56E-01	0	0	3.49E-04	0	1.14E-02	-7.07E-02

GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 m² Rockpanel Durable 6 mm finish Uni with an Rd - value of 0.016

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
PERE	MJ	3.5E+01	3.21E-01	1.98E+00	0	0	2.91E-02	0	1.9E-01	-2.7E+00
PERM	MJ	5.56E+00	0	-2.01E+00	0	0	0	0	0	ND
PERT	MJ	4.06E+01	3.21E-01	-3.42E-02	0	0	2.91E-02	0	1.9E-01	-2.7E+00
PENRE	MJ	8.23E+01	4.57E+00	4.96E+00	0	0	4.12E-01	0	1.44E+00	-5.63E+00
PENRM	MJ	3.18E+01	0	-1.43E-01	0	0	0	0	0	ND
PENRT	MJ	1.14E+02	4.57E+00	4.82E+00	0	0	4.12E-01	0	1.44E+00	-5.63E+00
SM	kg	4.42E-02	0	3.09E-03	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	ND
NRSF	MJ	0	0	0	0	0	0	0	0	ND
FW	m ³	5.52E-02	3.53E-04	2.8E-03	0	0	3.21E-05	0	3.47E-04	-1.98E-03

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA - WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 m² Rockpanel Durable 6 mm finish Uni with an Rd - value of 0.016

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
HWD	kg	1.42E-06	1.69E-11	7.12E-08	0	0	1.53E-12	0	1.51E-10	8.38E-09
NHWD	kg	1.11E+00	6.57E-04	5.06E-01	0	0	5.94E-05	0	6.83E+00	3.32E-01
RWD	kg	5.34E-04	5.9E-06	6.81E-05	0	0	5.33E-07	0	1.52E-05	-1.98E-04
CRU	kg	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	1.47E-01	0	0	0	0	0	0
MER	kg	0	0	1.35E-01	0	0	0	0	0	0
EEE	MJ	0	0	5.79E-01	0	0	0	0	0	0

EET	MJ	0	0	1.3E+00	0	0	0	0	0	ND
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HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy

RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional: 1 m² Rockpanel Durable 6 mm finish Uni with an Rd - value of 0.016

Parameter	Unit	A1-A3	A4	A5	B1	C1	C2	C3	C4	D
PM	Disease incidence	1.14E-06	3.86E-09	5.89E-08	0	0	2.55E-10	0	9.32E-09	-2.62E-08
IR	kBq U235 eq	9.63E-02	8.52E-04	1.07E-02	0	0	7.69E-05	0	1.64E-03	-3.35E-02
ETP-fw	CTUe	1.62E+01	3.21E+00	1.41E+00	7.62E-08	0	2.9E-01	0	8.31E-01	-3.9E-01
HTP-c	CTUh	5.17E-09	6.46E-11	2.84E-10	5.6E-15	0	5.84E-12	0	1.18E-10	-8.91E-11
HTP-nc	CTUh	4.3E-07	2.85E-09	2.36E-08	6.93E-17	0	2.58E-10	0	1.25E-08	-3.23E-10
SQP	SQP	1.17E+02	1.89E+00	6.1E+00	0	0	1.72E-01	0	2.81E-01	-3.19E+01

PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index

Disclaimer 1 – for the indicator “Potential Human exposure efficiency relative to U235”. This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators “abiotic depletion potential for non-fossil resources”, “abiotic depletion potential for fossil resources”, “water (user) deprivation potential, deprivation-weighted water consumption”, “potential comparative toxic unit for ecosystems”, “potential comparative toxic unit for humans – cancerogenic”, “Potential comparative toxic unit for humans - not cancerogenic”, “potential soil quality index”. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high as there is limited experience with the indicator.

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C2CCERTIFIED.ORG

ROCKWOOL B.V. / Rockpanel

Konstruktieweg 2, Roermond, The Netherlands

has successfully achieved C2C Certified® Full Scope Silver
for the product(s) under the name:

Rockpanel Façade Cladding Silver

Please see the List of Certified Products (available on the Cradle to Cradle Certified Product Registry) for all products included in this certification.

Certification Number
11795

Standard Version
4.0

Lead Assessment Body
Sustenuto

Material Health
Assessment Body
ARCHE Consulting

Effective Date
14 July 2025

Expiration Date
23 May 2027

A handwritten signature in blue ink, appearing to read "Elwyn Grainger-Jones".

Elwyn Grainger-Jones
Executive Director
Cradle to Cradle Products Innovation Institute

See the Cradle to Cradle Certified Product Registry at www.c2ccertified.org for additional details
Use of the certification marks is subject to the terms and conditions of the C2CPII Certification Agreement and Trademark Use Guidelines.
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Amsterdam, The Netherlands
San Francisco, California, USA





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Products Covered

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Elwyn Grainger-Jones

Executive Director

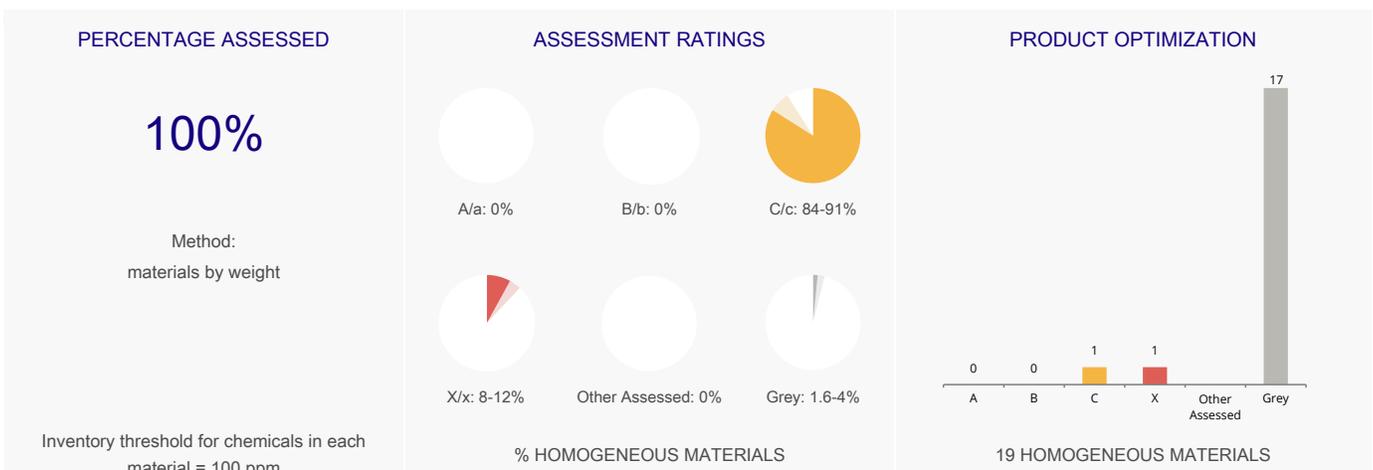
Cradle to Cradle Products Innovation Institute

Phases and Processes considered in the Chemical Toxicity Assessment

Final manufacturing; Professional use; Use; Intended end of use; recycling; Unintended end of use: landfilling, incineration, uncontrolled burning, release to the environment

PRODUCT OPTIMIZATION SUMMARY

- Compliant with Leading Chemical Regulations
- Organohalogen substances of special concern and functionally-related non-halogenated classes of equivalent concern are below allowable thresholds (exemptions apply)
- No exposure to EU CLP Category 1 & 2 Carcinogens, Mutagens and Reproductive toxicants or Substances of Very High Concern; Carbon-bonded halogens are <1% of each material (exemptions apply)
- VOC emissions testing not applicable
- VOC content requirements not applicable
- Product is optimized for material health (no grey or x-assessed chemicals)
- Process chemicals have been identified and none are grey or x-assessed
- Actions taken to reduce and eliminate emissions of hazardous chemicals in the product's supply chain



Note: Other assessed includes recycled content that has passed the required analytical tests, Externally Managed Components (EMCs) and/or C2C Certified inputs.

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