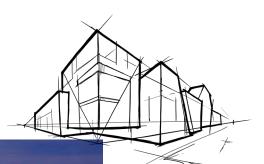
CAVITYROCK[®] Exterior Insulation for Cavity Wall and Rainscreen Applications



ROCKWOOL CAVITYROCK[®] products are semi-rigid stone wool insulation boards designed for exterior cavity wall and rainscreen applications, and are compatible with numerous cladding attachment systems.

CAVITYROCK[®] is non-combustible and fire resistant, and will not develop toxic smoke or promote flame spread, even when directly exposed to fire. Approved for use in many NFPA 285-compliant designs, it is an important component of fire-resilient exterior wall systems when used as a continuous insulation.

CAVITYROCK[®] also offers long-term thermal efficiency, moisture control and acoustic performance – improving the energy efficiency and comfort of buildings.

Choose mono-density insulation in thicknesses up to 2" or dual-density in thicknesses of 2.5" to 6".

Learn more at rockwool.com

Thermal Performance

The use of CAVITYROCK[®] as a continuous insulation helps you meet building code requirements.





CAVITYROCK[®] Exterior Insulation for Cavity Wall and Rainscreen Applications

ROCKWOOL CAVITYROCK[®] is a semi-rigid, mineral wool insulation board designed for exterior cavity wall and rainscreen applications.

Mineral Fiber Block and Board Thermal Insulation - Type IVB CompliantASTM C612ComplianceMEA Approval, New York City Approval236 - 05 - MFor information on CAN/ULC S702 compliance, contact ROCKWOOL Technical SupportASTM E84 (UReaction to FireFlame spread index = 0; Smoke developed index = 0ASTM E84 (UPlame spread index = 0; Smoke developed index = 0CAN/ULC S10Determination of Non Combustibility of Building Materials - Non CombustibleCAN/ULC S10Monolithic Density (thickness: 1", 1.5", 2")> 4.3 lbs/ft ³ (>69 kg/m ³)* * Density will change with thickness, please contact ROCKWOOL for more informationASTM C303Density (thickness ≥ 2.5")Dual Density - 6.2 lbs/ft ³ (100 kg/m ³) outer layer and 3.8 lbs/ft ³ (61 kg/m ³) inner layerASTM C303Corrosion ResistanceStress Corrosion Cracking Tendency of Austenitic Stainless Steel - PassedASTM C795 ASTM C665)2
For information on CAN/ULC S702 compliance, contact ROCKWOOL Technical Support Reaction to Fire Flame spread index = 0; Smoke developed index = 0 ASTM E84 (U Flame spread index = 0; Smoke developed index = 0 CAN/ULC S1 Determination of Non Combustibility of Building Materials - Non Combustible CAN/ULC S1 Monolithic Densiity (thickness: 1", 1.5", 2") > 4.3 lbs/ft ³ (>69 kg/m ³)* ASTM C303 Density (thickness ≥ 2.5") Dual Density - 6.2 lbs/ft ³ (100 kg/m ³) outer layer and 3.8 lbs/ft ³ (61 kg/m ³) inner layer ASTM C303 Corrosion Resistance Stress Corrosion Cracking Tendency of Austenitic Stainless Steel - Passed ASTM C795 ASTM C795)2
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Corrosion Resistance Corrosion of Steel - Passed ASTM C665	
Thermal Resistance R-Value / inch @ 75°F 4.3 hr.ft².F/Btu ASTM C518 RSI value / 25.4 mm @ 24°C 0.75 m²K/W ASTM C518	2177)
Moisture Sorption - 0.03% by volume ASTM C1104	
Reaction to Moisture Water Vapor Transmission, Desiccant Method - 1555ng/Pa.s.m ² (27 perm) ASTM E96	
Determination of Fungi Resistance - Passed ASTM C1338	
Thickness 1" (25.4 mm) to 4" (101.6 mm) in 1/2" increments. 5" (127 mm) and 6" (152.4 mm) Dimensions 24" x 48" (610 mm x 1219 mm) and 16" x 48" (406 mm x 1219 mm)	
Thickness 125 Hz 250 Hz 500 Hz 1000 Hz 2000Hz 4000 Hz NRC ASTM C423	
1.5" 0.19 0.55 1.03 1.06 1.02 1.01 0.9	
Acoustical Performance 2" 0.26 0.71 1.14 1.09 1.04 1.03 1	
3" 0.72 0.93 0.88 0.84 0.9 0.97 0.9	

Issued 01-01-18 Supersedes 08-23-17

Declare. Please contact ROCKWOOL for Declare labels for other ROCKWOOL manufacturing facilities.

NOTE: *Master Format 1995 Edition **Master Format 2004 Edition. As ROCKWOOL has no control over installation design and workmanship, accessory materials or application conditions, ROCKWOOL does not warranty the performance or results of any installation containing ROCKWOOL's products. ROCKWOOL's overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty is in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose.



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ROCKWOOL LEED v4 Solutions Guide

The right choice for creating sustainable buildings and achieving LEED[®] certification.



The ROCKWOOL Group is the world leader in stone wool solutions. Our product portfolio is well placed to tackle many of today's biggest sustainability and development challenges and we offer carefully designed, innovative sustainable solutions for your comfort, safety and for the benefit of the environment.

Our products

ROCKWOOL stone wool insulation products not only help in creating sustainable buildings; they are made from a natural fire safe and durable material with no added flame retardants or blowing agents.

Rock: A natural, renewable resource

All ROCKWOOL products are made from stone wool – consisting of a blend of naturally occurring volcanic diabase rock. This stone is a renewable and plentiful natural resource in itself, but just as importantly our high-tech production process ensures that all our insulation products are produced in a sustainable and environmentally responsible way.

Major energy savings

One of the best ways to reduce the energy consumption of a building is through proper insulation. ROCKWOOL stone wool products are a major energy and CO₂ saver, as they allow new and existing buildings to benefit from durable, efficient and



versatile thermal insulation. Actually, the energy savings obtained from installing the right insulation will outweigh the energy consumption used for its production in just a few months time.

In most cases, properly installed insulation can cut the building's energy need for heating or cooling of up to 70-90%. In addition, ROCKWOOL insulation works continuously and requires no maintenance or replacement. In other words, it's an investment, which will quickly pay off!

Creating sustainable buildings

The LEED[®] v4 Green Building Rating System includes revised performance criteria for certifying the design and construction of commercial, institutional and residential buildings. LEED[®] works for all buildings anywhere, regardless of where they are in their life cycle and the process is designed to inspire innovative solutions that support healthy, highly efficient and cost-saving green buildings during the design, construction, operation and maintenance of these highperformance structures.

ROCKWOOL insulation is the right choice for creating sustainable buildings and achieving LEED[®] v4 points for your high-performance buildings.

Energy & Atmosphere

1000

Minimum energy performance & Optimize energy performance

Energy efficient building design requires a wellinsulated and properly constructed building envelope. ROCKWOOL provides a range of thermal insulation products that can be used on the exterior, interior or both to achieve the prerequisite minimum energy performance and optimized energy performance credits.

Materials & Resources

Building life-cycle impact reduction

A properly constructed and wellinsulated building envelope utilizing the long lasting high performance of ROCKWOOL thermal insulation products can assist your project team in achieving the building life-cycle impact reduction through a wholebuilding life-cycle assessment.

Building product disclosure and optimization - environmental product declarations

ROCKWOOL can deliver third-party UL certified industry wide cradle-tograve EPDs according to ISO 14025 and ISO 14044 and are available for download at

www.ROCKWOOL.com.

Building product disclosure and optimization - sourcing of raw materials

The ROCKWOOL Group Code of Conduct for Suppliers addresses topics such as equal opportunities, trade union recognition, fair employment terms and the abolition of child labour. This document must be signed by all of our major suppliers including but not limited to suppliers of raw materials and equipment for repair, maintenance, operations as well as suppliers with whom we spend more than US \$100,000. Currently, 75% of our key suppliers have already signed the Code of Conduct.

The ROCKWOOL Group procurement policy provides opportunity to engage with our suppliers on social and ethical topics, and implies that high-risk suppliers will be audited against our Code of Conduct. The ROCKWOOL Group has adopted the ICC "Business Charter for Sustainable Development – Principles for Environmental Management", where our suppliers are also required to ensure their own suppliers meet the same standards. Our commitment is documented through our corporate governance published in the ROCKWOOL Group Annual Report as well as the ROCKWOOL Group Sustainability Report which is self-declared and follows the Global Reporting Initiative (GRI) Sustainability Report CSR framework (GRI G4).

Building product disclosure and optimization - material ingredients

ROCKWOOL stone wool products are made up of approximately 97 percent minerals such as volcanic rock, as well as upcycled and recycled materials from our factories and other industries that might otherwise be landfilled or downcycled. Stone wool is also fully recyclable and can be recycled again and again without degrading its quality.

ROCKWOOL values transparency and has published complete content inventory for the product at 0.1% (1000 ppm) identified by name and Chemical Abstract Service Registration Number (CASRN), disclosing role, amount and hazard screen using GreenScreen benchmark, as defined in GreenScreen v1.2. Our AFB evo[™] product also holds a Declare label.

≤ 40 %

The average recycled content of the stone wool core is up to 40%, depending on production site and product.



ROCKWOOL Products for LEED[®] v4

		Energy and At	mosphere (EA)		Materials & R	esources (MR		Indoor E	nvironme	ental Qua	lity (EQ)
ROCK	WOOL Products	Minimum Energy Performance	Optimize Energy Performance	Building Life-Cycle Impact Reduction	Building Product Disclosure and Optimization - Environmental Product Declarations	Building Product Disclosure and Optimization - Sourcing of Raw Materials	Building Product Disclosure and Optimization - Material Ingredients	Minimum Acoustical Performance	Low-Emitting Materials	Thermal Comfort	Acoustic Performance
Walls	Exterior Walls										
	CAVITYROCK®	x	x	x	x	x	x	x		x	x
	COMFORTBOARD [™] 110	х	х	х	х	х	х	х		х	х
	COMFORTBOARD [™] 80	х	х	х	х	х	х	х		х	х
	COMFORTBATT®	х	х	х	х	х	х	х	X	х	х
	Interior Walls										
	AFB®			x	x	x	x	x	x		x
	AFB evo™			х	х	х	Declare	х	X*		x
	SAFE'n'SOUND®			х	х	х	x		x		x
	ROCKBOARD® 40/60/80			х	х	х	x	x			x
	Curtain Wall										
	CURTAINROCK® 40/80	x	x	x	x	x	x	x		х	x
	Firestopping										
	ROXUL SAFE™				х	х	х	x			х
	ROXUL SAFE™ 45				х	х	х	x			х
	Metal Building										
	PLUS™ MB	х	х	х	х	х	х	х		х	х
	ROXUL SAFE [™] 65	х	х	х	х	х	х	х		х	х
	ROXUL SAFE™ 55	х	x	х	x	х	х	x		х	x
	Sandwich Wall										
	CONROCK 60®	х	х	х	х	х	х	x		х	х
	CONROCK®	х	х	x	x	x	x	x		x	×
Roofs	Flat Roof										
	TOPROCK® DD	х	Х	х	х	х	х	х		х	х
	TOPROCK® DD PLUS	Х	х	х	х	х	х	х		х	х
	ROCKWOOL MULTIFIX™	Х	х	х	х	х	х	х		х	х
	MONOBOARD®	х	Х	х	х	х	х	х		х	х
	MONOBOARD® Plus	Х	х	х	х	х	х	х		х	х

* UL validated formaldehyde free

Indoor Environmental Quality

Low-emitting materials

Our wellbeing goes hand-in-hand with the comfort of the environment where we work, live, learn, play or even – in the case of a hospital – recover.

All ROCKWOOL stone wool insulation batt products are certified according to GREENGUARD Gold in accordance with California Department of Public Health (CDPH) Standard Method v1.1–2010.

In addition, AFB evo[™] is UL validated to be Formaldehyde Free.

ROCKWOOL North American production facilities

With production facilities strategically placed to support local resources and reduced environmental impacts from transportation, ROCKWOOL's primary raw material sources are located in close vicinity of our facilities though certain materials may be sourced from further than 100 miles (160 km).

Milton, Ontario, Canada

The ROCKWOOL Group entered the North American market for the first time in 1988. This location marks the group's first factory and serves as ROCKWOOL's head office for North American operations.

Grand Forks, British Columbia, Canada

This facility has been in operation since November 1999 and was the first expansion for ROCKWOOL within North America. The Grand Forks facility operates to meet the needs of North America's western regions.

Byhalia, Mississippi, USA

In the spring of 2014, a new 600,000 sq. ft. facility opened in Marshall County, Mississippi; approximately 30 miles south of Memphis.

*COMING SOON (2020) – Ranson, West Virginia, USA

This new manufacturing facility will cover some 460,000 square feet and employ around 150 people.



For information on how ROCKWOOL products and resource-efficient solutions support sustainable design strategies, or for assistance with your calculations, contact one of our Technical Specialists at 1-877-823-9790 or visit www.ROCKWOOL.com.

At the ROCKWOOL Group, we are committed to enriching the lives of everyone who comes into contact with our solutions. Our expertise is perfectly suited to tackle many of today's biggest sustainability and development challenges, from energy consumption and noise pollution to fire resilience, water scarcity and flooding. Our range of products reflects the diversity of the world's needs, while supporting our stakeholders in reducing their own carbon footprint.

Stone wool is a versatile material and forms the basis of all our businesses. With more than 11,000 employees in 39 countries, we are the world leader in stone wool solutions, from building insulation to acoustic ceilings, external cladding systems to horticultural solutions, engineered fibres for industrial use to insulation for the process industry and marine and offshore.

AFB°, CAVITYROCK°, COMFORTBATT°, CONROCK°, CURTAINROCK°, ROCKBOARD°, TOPROCK°, MONOBOARD°, ROXUL° are registered trademarks of the ROCKWOOL Group in USA and ROXUL Inc. in Canada.

ROCKWOOL[™], COMFORTBOARD[™], FABROCK[™], ROXUL SAFE[™], ROCKWOOL PLUS[™], and AFB evo[™] are trademarks of the ROCKWOOL Group in USA and ROXUL Inc. in Canada.

SAFE'n'SOUND[®] is a registered trademark used under license by Masonite Inc.





ROCKWOOL

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Declare.

ROCKWOOL[™] Exterior Stone Wool Insulation-Unfaced: CAVITYROCK[®], CURTAINROCK[®] 40/80, COMFORTBOARD[™] 110/80, ROXUL SAFE[™]

ROCKWOOL

Final Assembly: Byhalia, Mississippi, USA Life Expectancy: Life of Structure End of Life Options: Salvageable/Reusable in its Entirety, Landfill (100%)

Ingredients:

Glass, Oxide, Chemicals, Urea, Polymer with Formaldehyde and Phenol¹; Syrups, Hydrolized Starch, Proprietary Ingredient (0.05-0.2%)²

¹LBC Temp Exception I10-E9 Phenol Formaldehyde in Mineral Wool Insulation

²LBC Temp Exception I10-E4 Proprietary Ingredients <1%

Living Building Challenge Criteria:

RXL-1002 VOC Content: N/A Declaration Status EXP. 01 OCT 2020 VOC Emissions: N/A LBC Red List Free LBC Compliant

LBC Complian

ANUFACTURER RESPONSIBLE FOR LABEL ACCURACY

INTERNATIONAL LIVING FUTURE INSTITUTE[®] declareproducts.com

Safe Use Instruction Sheet

This ROCKWOOL Safe Use Instruction Sheet [SUIS] is provided for manufactured articles neither regulated by OSHA Hazard Communication Standard, 29 CFR 1910.1200 nor by the Canada Hazardous Products Regulation SOR/2015-17 [WHMIS 2015].

ROCKWOOL provides this SUIS for safe handling and use instructions.

1. Identification of the article

Product Name Resin-Bonded Stone Wool Insulation

Product Family	Product Identification		Intended Use	
Ι.	AFB evo™		Interior Wall and Floor Applications	
н.	COMFORTBOARD™, COMFORTBATT®, SAFE'N'SOUND®, AFB®, CAVITYROCK®, CURTAINROCK®, ROCKBOARD®, ROXUL Plus®, SAFE®		Interior and Exterior Applications	
111.	MONOBOARD® PLUS, TOPROCK® DD Plus, MULTIFIX		Roof Insulation or Insulating Cover Board over Other Insulations	
IV.	MONOBOARD [®] , TOPROCK [®] DD, TOPROCK [®] DD		Low-Slope Roof Applications	
V.	CONROCK [®] , FABROCK [™]		OEM	
VI.	ProRox [®] NA, SeaRox [®] NA		Industrial Piping and Equipment Applications	
Manufacturer	ROCKWOOL			
Address	Canada 8024 Esquesing Line Milton, Ontario Canada L9T 6W3	USA 4594 Cayce Rd Byhalia MS 38611 USA		
Company Phone Number				
Email	contactus@rockwool.com			

2. Hazards identification

OSHA This product is considered an article as per OSHA 29 CFR 1910.1200.

29 CFR 1910.1200(c) defines an article as follows: "Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.

Articles meeting the above definition are not regulated by OSHA 29 CFR 1910.1200 and are exempt from SDS and label requirements.



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2. Hazards identification - Continued

WHMIS This product is considered an article per the Canadian Hazardous Products Regulation SOR/2015-17. Manufactured articles that meet the definition of the Canadian Hazardous Products Act (any article that is formed to a specific shape or design during manufacture, the intended use of which when in that form is dependent in whole or in part on its shape or design, and that, when being installed, if the intended use of the article requires it to be installed, and under normal conditions of use, will not release or otherwise cause an individual to be exposed to a hazardous product) are not regulated by the Canadian Hazardous Products Regulation SOR/2015-17 and are exempt from SDS and label requirements.

Adverse physiochemical, human health and environmental effects This product may cause temporary mechanical irritation to the eyes and skin. Temporary irritation of the upper respiratory tract (scratchy throat, coughing, congestion) may result from exposure to dusts and fibers in excess of applicable exposure limits. Pre-existing chronic eye, skin and respiratory conditions may temporarily worsen due to exposure to dusts and fibers (see section 8 for safe handling instructions).

3. Composition / information on ingredients

Product Family	Stone wool (a, b)	Non added formaldehyde binder	Phenol Formaldehyde Binder	Syrups, hydrolysed starch	Mineral Oil
Ι.	97%	<3%	-	<1%	<0.2%
II.	97%	-	<3%	<1%	<0.2%
111.	94-96%	-	<6%	<1%	<0.2%
IV.	94-96%	-	<6%	<1%	<0.2%
V.	97%	-	<3%	<1%	<0.2%
VI.	97%	-	<3%	<1%	<0.2%

a: 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 Note Q conditions Possible facing materials: Mineral fleece. Aluminium foil, Aluminium foil reinforced mineral fiber grid, PE craft paper, Wired mesh, PP film, Plaster board, Mineral cloth, Bitumen.

b: Man Made Vitreous Wool Fibres are IARC classified as Group 3 (not classifiable as to their carcinogenicity to humans)

4. First aid measures

Eye contact Rinse immediately with water for at least 15 minutes.

Skin contact
(if itching
occurs)Remove contaminated clothing and wash skin gently with cold water and a mild soap. Never use
compressed air to remove fibers from skin or clothing.

Inhalation If affected, remove from exposure.

Ingestion Rinse mouth and drink plenty of water.

If any irritation persists, seek immediate medical attention.

5. Fire fighting measures

Suitable Water, Foam, Carbon Dioxide or dry powder (No unsuitable extinguishing firefighting media known. extinguishing media

Protective Do not enter fire area without proper protective equipment, including NIOSH-approved selfequipment for contained breathing apparatus (SCBA). Observe normal fire fighting procedures. firefighters

6. Accidental release

Personal precautions	In case of high concentrations of dust: Ventilate and/or use same protective equipment as mentioned in section 8
Methods for cleaning up	Use personal protective equipment as required. Clean contaminated surface with vacuum or dampen with water spray prior to sweeping up. Place waste in appropriate containers for disposal.

7. Handling and storage

conditions

Precautions and No specific measures required. A serrated knife for cutting is preferred. Minimize dust creation and safe handling ensure adequate ventilation of workplace.

Keep product dry and in original packaging until use. Storage

Incompatible None known. materials

8. Exposure controls / personal protection

Follow all applicable exposure limits. Local regulations may apply. ROCKWOOL recommends that Exposure guidelines users of the products adhere to the OSHA-recommended PEL of 1 f/cc TWA (fibers longer than 5 µm with diameters less than 3µm). This recommended PEL, together with recommended work practices and personal protective equipment, were adopted in a Health and Safety Partnership Program (HSPP) agreement in 1999 between OSHA and the North American Insulation Manufacturers Association (NAIMA), of which ROCKWOOL is a member. Adherence to the OSHA-recommended PEL, work practices and protective equipment in the HSPP is expected to provide appropriate protection against all inhalation-related health risks that may be associated with exposures to mineral wool fibers (ACGIH, 1997; NAIMA, 1999; OSHA, 1999; National Research Council, 2000; IARC, 2001), and to minimize eye and skin irritation.

Reference	Exposure	Legal or Recommended Exposure Limit
OSHA	Synthetic Vitreous Fibers, > 5 μm length, < 3 μm diameter	1 f/cc TWA (recommended)
USHA	Inert dust and particulates not otherwise regulated	15 mg/m3 TWA-PEL (total particulate) 5 mg/m3 TWA-PEL (respirable particulate)
	Synthetic Vitreous Fibers, > 5 µm length, < 3 µm diameter	1 f/cc TWA (threshold limit value TLV)
ACGIH	Particulates not otherwise classified, containing no asbestos and < 1% crystalline silica	10 mg/m3 TWA-PEL (inhalable particulate) 3 mg/m3 TWA-PEL (respirable particulate)

8. Exposure controls / personal protection

Engineering controls

Provide local exhaust and/or general ventilation to main exposure below regulatory and recommended limits. Vacuum or wet cleaning methods recommended.

Individual protection measures, including personal protection

Eyes	Eyes Wear safety glasses with side shielding or similar		
	Wear protective gloves		
Skin/body	Wear long sleeve shirt and long trousers		
Respiratory	Ensure proper ventilation		
	Use appropriate certified respirator when airborne particulates are above exposure limits (properly fitted NIOSH disposable N95 type dust respirator or better is recommended)		
General hygiene	Wash hands with cold water after handling products		
	Remove and wash clothes worn during working with product.		

9. Physical and chemical properties

Physical State	Solid
Color	Grey, green, brown
Odor	May have slight resin odor
Melting Point	Approximately 2150°F (1177°C)
Water solubility	Insoluble in water

10. Stability and reactivity

Stability

Reactivity and Stable under normal conditions of use

Decomposition products
Primary combustion products of the cured urea extended phenolic formaldehyde binder, when heated above 390°F (200°C), are carbon monoxide, carbon dioxide, ammonia, water and trace amounts of formaldehyde. Other undetermined compounds could be released in trace quantities. Emission usually only occurs during the first heating. The released gases may be irritating to the eyes, nose and throat during initial heat-up. Use appropriate respirators (air supplied) particularly in tightly confined or poorly ventilated areas during initial heat-up.

11. Toxicological information

Stone wool fibers are not classifiable as OSHA irritants. Coarse fibers and dust from mineral wool products can cause emporary and reversible irritation (itching, redness) of the skin and eyes. The itching and possible inflammation are a mechanical reaction to dust and coarse fibers (more than about 5 µm in diameter) and are not damaging in the way chemical irritants may be. The symptoms generally abate within a short time after the end of exposure. When products are handled continually, the skin itching generally diminishes.

Man Made Vitreous Wool Fibers are IARC classified as Group 3 (not classifiable as to their carcinogenicity to humans)

12. Ecological information

The products are stable, not expected to cause harm to animals, plants or fish, and have no known adverse environmental effects.

13. Disposal considerations

The products, as supplied, are not expected to be a characteristic hazardous waste under RCRA if discarded. Products are not considered to be a hazardous waste. Dispose of waste material according to federal, state, provincial and Local environmental regulations. Comply with relevant regulations with regards to disposal, recycling, treatment, transportation and storage of contents and containers.

14. Transport information

No special precautions. This product is not considered to be a hazardous material for transport.

15. Regulatory information

InternationalArticles are exempt from registration or listing chemicals inventories like TSCA (USA), DSL/NDSLInventories(CAN), REACH (EU), ENCS (JP), IECSC (CN), KECL (KR), PICCS (PH), AICS (AUS). Per Section 2. these
products are considered an article.

Product Family	California Proposition 65 Status
I.	This product does not contain any Proposition 65 chemicals.
II V.	These products contain formaldehyde, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm.

16. Other information

- Date of 16-AUG-2018 preparation
- Date of revision 10-MAY-2019
- **Comments to** Inclusion of ProRox and SeaRox Technical Insulation

revision

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Technical Bulletin

MANUFACTURERS DECLARATION OF PRODUCT CONFORMITY FOR PRODUCT SPECIFIC VOC EMISSIONS

The products listed below are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method v1.2–2017 and GreenGuard Gold for classrooms.

Products covered by this declaration: COMFORTBOARD[™] 80 – 1", 1.25", 1.5", 2"

Extended product grouping covered by this declaration: CAVITYROCK[®] – 1", 1.5", 2", 2.5", 3", 3.5", 4" COMFORTBOARDTM 110 – 1", 1.25" CURTAINROCK[®] – 1", 2", 3", 4" CURTAINROCK[®] 40 – 2", 3", 4", 5" CURTAINROCK[®] 80 – 1", 2", 3", 4" ROCKBOARD[®] 40 – 1", 1.5", 2", 2.5", 3", 4" ROCKBOARD[®] 60 – 2" ROCKBOARD[®] 80 – 1", 1.5", 2" ROXUL SAFETM – 2", 3", 4"

VOC Testing: Test method: ASTM D 5116 Product category: Insulation Environment: Classroom Report number: UL 1000405206-1395765 – COMFORTBOARD[™] 80, 2" Report Date: 14th March 2018

Results:

	168 hr emission rate
TVOC	< 0.22mg/m3
Formaldehyde	< 9 µg/m3
Total aldehydes	< 0.043 ppm
Individual VOCs	< 1/2 CREL or 1/100 TLV

Laboratory: UL Environment ISO/IEC 17025 approved testing laboratory Accreditation number AT-1297

Quality Control:

ROCKWOOL has a documented quality control (QC) plan for the production of the above building products with in-plant quality control testing to demonstrate continuing compliance.

This declaration follows the requirements as laid out in the CDPH v1.1 2010 and CDPH v1.2 2017 Standard Method for the Testing & Evaluation of VOC Emissions, Part 8 GUIDELINES FOR USE OF STANDARD METHOD AS BASIS FOR A BUILDING PRODUCT CLAIM.

For more information, please contact ROCKWOOL Technical Innovations at 1.877.823.9790 or contactus@rockwool.com

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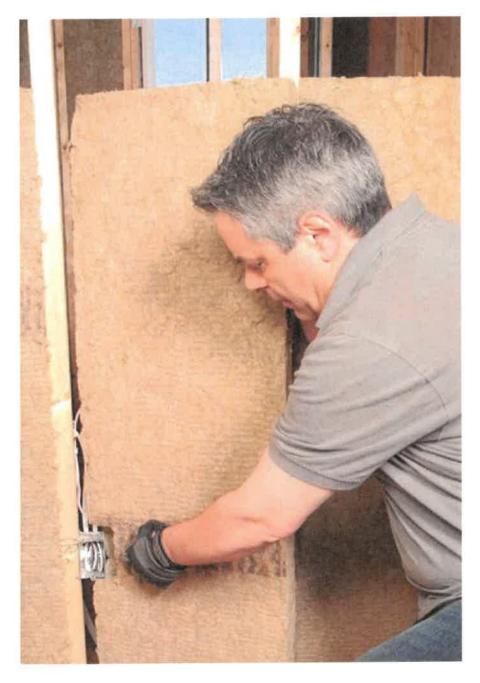
ROCKWOOL 8024 Esquesing Line, Milton, Ontario L9T 6W3

T: 1 (800) 265-6878 E: info@ROCKWOOL.com www.ROCKWOOL.com

ENVIRONMENTAL PRODUCT DECLARATION

ROCKWOOL[™] STONE WOOL Insulation

ROCKWOOL NORTH AMERICA



ROCKWOOL[™] Stone Wool/Mineral Wool Insulation is optimized for performance, delivering on Thermal Comfort, Acoustics, Fire protection and more.



ROCKWOOL North America is Part of the ROCKWOOL Group, the world's leading stone wool/mineral wool manufacturer. Operating globally for over 80 years, over 30 years in North America the company manufactures stone wool insulation products that serve a wide range of applications in the Commercial, Residential, and Industrial/Technical segments.

Across the full range of our products and operations, ROCKWOOL is dedicated to enriching modern living. We strive to increase our positive impact on people and society by maximizing our positive product impact and minimizing our operational footprint. We recognize that operating with integrity and as a responsible business is equally important and underpins everything we do.

The United Nations Sustainable Development Goals (SDGs) steer our ambitions. We committed to 10 out of the 17 SDGs – pursuing the goals where we can have the greatest impact and that are the most aligned with our business competencies.

Our Environmental Product Declaration is another element of our commitment to serving our customers and the industry's requirements for sustainable solutions.



ENVIRONMENTAL PRODUCT DECLARATION



Rockwool International A/S (Rockwool North America) Rockwool Stone wall thermal Insulation

According to EN 15804 and ISO 14025 Dual Recognition by UL Environment and Institut Bauen und Umwelt e.V.

This declaration is an environmental product declaration (EPD) in accordance with ISO 14025. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. <u>Exclusions</u>: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. Accuracy of Results: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. <u>Comparability</u>: EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.



PROGRAM OPERATOR	UL Environment
DECLARATION HOLDER	ROCKWOOL International A/S (Rockwool North America)
ULE DECLARATION NUMBER	4789092768.101.1
IBU DECLRATION NUMBER	EPD-RWI-20190075-CCD1-EN
DECLARED PRODUCT	ROCKWOOL stone wool Thermal Insulation
REFERENCE PCR	Product Category Rules Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Background Report, 03.2018 Product Category Rules Part B: Mineral insulating materials, 12.2018

DATE OF ISSUE	17/07/2019
DATE OF EXPIRATION	17/06/2024

CONTENTS OF THE DECLARATION	General information Product / Product description LCA calculation rules LCA scenarios and further technic LCA results References	
The PCR review was conducted	by:	IBU – Institut Bauen und Umwelt e.V. PCR was approved by the Independent Expert
		Committee (IEC) of IBU
was independently verified in acc Underwriters Laboratories		Gravit R. Wienter
		Grant R. Martin, UL Environment
This life cycle assessment was ir accordance with EN 15804 and t	dependently verified in he reference PCR by:	IBU – Institut Bauen und Umwelt e.V.



Environment

ENVIRONMENTAL PRODUCT DECLARATION

as per /ISO 14025/ and /EN 15804/

Owner of the Declaration	ROCKWOOL International A/S (ROXUL Inc ROCKWOOL North America)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-RWI-20190075-CCD1-EN
Issue date	18.06.2019
Valid to	17.06.2024

ROCKWOOL stone wool Thermal Insulation ROCKWOOL International A/S (ROXUL Inc. -ROCKWOOL North America)



www.ibu-epd.com / https://epd-online.com





General Information

ROCKWOOL International A/S (ROCKWOOL North America)

Programme holder

IBU - Institut Bauen und Umwelt e.V. Panoramastr. 1 10178 Berlin Germany

Declaration number EPD-RWI-20190075-CCD1-EN

This declaration is based on the product category rules: Mineral insulating materials, 12.2018

(PCR checked and approved by the SVR)

Issue date 18.06.2019

Valid to 17.06.2024

Whermanes

Prof. Dr.-Ing. Horst J. Bossenmayer (President of Institut Bauen und Umwelt e.V.)

Bank Hils

Dr. Alexander Röder (Head of Board IBU)

Product

2

ROCKWOOL stone wool Thermal Insulation

Owner of the declaration

ROXUL Inc. d/b/a ROCKWOOL North America 8024 Esquesing Line Milton, Ontario Canada L9T 6W3

Declared product / declared unit

1 m² of stone wool thermal insulation product with an $R_D=1 m^2 K/W$.

Scope:

The span of products, which are contained in this EPD refer to thermal insulation products for the North American market, for wall (interior and exterior) and roof applications with a range of densities from 36 to 200 kg/m³ (2.2 to 12.5 lbs/ft³). The declared reference product in this EPD is $1m^2$ Safe'n' Sound stone wool batt for interior partition of wood and steel frame constructions with a thermal resistance of $R_D=1$ m² K/W ($R_{US}=5.68$). The corresponding thermal conductivity has been measured at 24°C as per ASTM C518.

The products included in this EPD are all manufactured in one or several of the ROCKWOOL North American facilities:

- Milton (Ontario, Canada)
- Grand Forks (British Columbia, Canada)
- Byhalia, (Mississippi, US).

The EPD is based on weighted LCA inventory data from the 3 plants. The environmental impacts and indicators are determined by applying the product specific scaling factor and R_p value (please refer to section "Technical Data" for guidance). Speciality facings are not included in the scaling factors. The LCA results for these are listed in the Annex. The production data correspond to the year 2017.

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.

Verification

The standard /EN 15804/ serves as the core PCR Independent verification of the declaration and data according to /ISO 14025:2010/

internally x externally

Dr. Frank Werner (Independent verifier appointed by SVR)



Product description / Product definition

ROCKWOOL stone wool thermal insulation is a firesafe material for insulation against heat, cold, fire, vibrations and noise.

It is traditionally made from volcanic rock (typically basalt or dolomite), an increasing proportion of recycled material, a low percentage of resin binder, which in ROCKWOOL thermal insulation products are usually up to 3%, syrups/ hydrolyzed starch in less than 1% and mineral oil in less than 0.2%. The ROCKWOOL Products described in this

declaration are produced for the North American market in the form of slabs or mats in the density range from 36 up to 200 kg/m³. The products are supplied in thicknesses of 25 to 203 mm.

Product-specific environmental impacts are compiled by applying the relevant scaling factor (listed in the Scaling Factor table) in the Product Specific Scaling formula.

Product Name	scaling compared to roterence	Product Nome	scaling compared to reference
SAFE'N'SOUND	1,8	CURTAINROCK 80	2,4
AFB	1,0	CURTAINROCK 80 RFF *	2,4
AFB evo	0,9	FABROCK 120	3,5
CAVITYROCK	1,6	FABROCK 30	1,1
COMFORTBATT R10	0,9	FABROCK 60	1,7
COMFORTBATT R14	0,9	FABROCK 85	2,4
COMFORTBATT R15	1,0	FABROCK BATT	1,1
COMFORTBATT R22	0,9	FABROCK HD	5,1
COMFORTBATT R22.5	0,9	FABROCK LT	1,3
COMFORTBATT R23	1,1	FABROCK WRAP	1,4
COMFORTBATT R24 WS	1,3	MONOBOARD	4,9
COMFORTBATT R24 55	0,9	MONOGOARD PLUS	4,9
COMFORTBATT R28	0,9	ROCKBOARD 40	1,5
COMFORTBATT R30	0,9	ROCKBOARD 40 BM *	1,5
COMFORTBATT R32	0,9	ROCKBOARD 60	2,2
COMFORTBOARD 110	4,3	ROCKBOARD 80	3,1
COMFORTBOARD 80	3,1	ROCKWOOL PLUS MB	0,9
CONROCK	3,2	ROXUL SAFE	-1,8
CONROCK 60	2,2	ROXUL SAFE 45	1,6
CURTAINROCK	1,3	ROXUL SAFE 55	2,0
CURTAINROCK 40	1,6	ROXUL SAFE 65	2,5
CURTAINROCK 40 RFF *	1,6	TOPROCK DD	4,3
		TOPROCK DD PLUS	4,3

*) See annex for Environmental impact of specialty facing.

Product Specific Scaling Formula:

Environmental Impact per m2 = Environmental Impact reference product * scaling factor + Environmental Impact facing material**.

**) Only add facing material for products with specialty facings.

Please note that the R_D-values used for scaling give a very good indication of the amount of material needed to achieve the desired insulation effect of other product types, but it is not an exact measure.

For the use and application of the product the respective Federal or local legal provisions at the place of use (outside European Union) apply.

Application

3

The spectrum of products, included in the scope of this EPD refer to thermal insulation products, for interior and exterior wall and roof applications with a range of densities from 36 to 200 kg/m³ (2 to 12 lb/sqf).

The products included in this EPD along with their intended use are presented in the table below: Intended Use of Products

Product	Product Identification	intended use
1.	AFB evo™	Interior Wall and Floor Applications
11.	COMFORTBOARD™, COMFORTBATT®, SAFE'n'SOUND®, AFB®, CAVITYROCKØ, CURTAINROCKØ, ROXUL SAFE™, ROCKBOARDØ, PLUS™ MB	Interior and Exterior Applications
61.	MONOBOARDS, TOPROCKS DD, TOPROCKS DD MULTIFIX™	Roof Insulation or Insulating Cover Board over Other Insulation
IV.	MONOBOARD® PLUS, TOPROCK® DD Plus	Low-Slope Roof Applications
V	CONROCK®, FABROCK®	OEM

Technical Data

The technical specifications for the products described in the EPD are stated below. Further documentation is available via www.rockwool.com.

Technical data

Name	Value	Unit
Sound absorption coefficient /ASTM C423/	7 - 11	%
Compressive Strength /ASTM C165/	0 - 190	kPa at 25% compressi on
Reaction to Moisture (Water Vapor Transmission, Desiccant Method) /ASTM E96/	27 - 41	perm
Thermal Resistance /ASTM C518 (C177)/	3.9-4.3	Fhr.ft2/Btu
Flame Spread/Smoke Developed /ASTM E84 [UL 723] / CAN/ULC S102/	0/0	
Determination of Fungi Resistance /ASTM C1338/	Passed	

Performance data of the product with respect to its characteristics in accordance with the relevant technical provision.

Base materials / Ancillary materials

The stone wool raw materials are non-scarce natural stone and secondary raw materials in a percentage up to 97%. The raw materials are used either in their natural form, crushed or in a cement-bound briquette. The product composition is presented below:

- virgin stone (71%)
- slags and other secondary materials (23%)
- binder (5.7%)
- mineral oil and bonding agent (0.3%)

Mineral wool fibers 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) fibers 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".

Non added formaldehyde alternatives are available



and covered by this EPD. (Regulation (EC) No 1272/2008 - REACH)

The possible facing materials include Mineral fleece. Aluminium foil, Aluminium foil reinforced mineral fiber grid, PE craft paper, Wired mesh, PP film, Plaster board, Mineral cloth, Bitumen and are presented in the Annex.

The product is typically packaged in PE shrink wrap bundles, that are shipped on single use wooden pallets. The packaging consists of 8% of the final product.

LCA: Calculation rules

Declared Unit

The specific product, referred to in the declared unit is 1m² of Safe 'n' Sound stone wool batt with a thermal resistance R_{si}=1m²K/W. The reference product has a thickness of 37mm (1.5 in) and a density of 40 kg/m³ (2.5 lb/ft3).

Applied averages are based on the annual production volumes at the North American production facilities. The environmental impacts of applied facing are listed in Annex.

Declared unit (reference product)

Name	Value	Unit
Declared Unit	1	m^2
Gross density	40	kg/m ³
Surface	1	m^2
Weight	1.48	kg
Conversion factor to 1 kg	0.676	-
Thickness to achieve declared unit	0.037	m

System boundary

EPD type: Cradle to Grave.

The modules considered in the life cycle assessment as per system boundaries, outlined in section 5.5. of the /PCR/ Part A: "Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report" 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;
- 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 and economic allocation is applied.

Reference service life

When installed correctly, the service life of ROCKWOOL stone wool is only limited by the service life of the structure wherein the product is installed. For the purpose of this EPD the reference service life of the structure is considered to be 75 years, as also defined in the North American PCR /UL 10010-1:2018/. For more information, please refer to the scenario section in this EPD.

Recycled stone wool and fuels come free of environmental burden, as it enters the product system as waste. Their transport to the factory is accounted for.

During the melting of raw materials pig iron is created in the cupola furnace. Pig iron is a co-product, which is subsequently sold to the market and economic allocation is applied.

Modules A1, A2 and A3 are declared as an aggregated Module A1-A3.

State or Province electricity grid mixes have been applied.

Construction/Installation

The Construction Stage A4-A5 includes:

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

The transport in A4 is modeled by volume with truck as a default vehicle, as the most conservative approach. 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 2% and according to the modularity principle of /EN15804/ 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:

ROCKWOOL Stone wool insulation is installed permanently in the structure and does not require maintenance, repair, replacement or refurbishment under normal use conditions. Similarly,

4



ROCKWOOL stone wool insulation has no operational energy or water use.

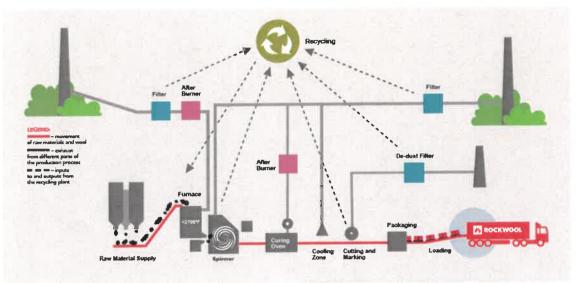
End of Life

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 credits from disposal (heat or electricity recovery) are assigned to module D.

Module D includes reuse, recovery and/or recycling potentials expressed as net impacts and benefits. Here the credits from electricity generation on landfill are considered.



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. . LCA results across EPDs can be calculated with different background databases, modelling assumptions, geographic scope and time periods, all of which are valid and acceptable according to Product Category Rules (PCR) and ISO standards. Caution should be used when attempting to compare EPD results.

The used software for the development of the declaration was /GaBi/, version 8.0.1.257 by thinkstep.

LCA: Scenarios and additional technical information

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
Litres of fuel /volumetric transport considered/	38	l/100km
Transport distance /weighted average from factory specific distances/	981	km
Capacity utilisation (including empty runs)	85	%
Gross density of products transported	40	kg/m ³

The transport of the materials to the customer is modeled as a volumetric transport, meaning that the truck reaches its capacity with volume before it reaches it with mass. The same conservative approach is followed for all the products of this EPD, even for the ones with high density.

Installation into the building (A5)

5

Name	Value	Unit
Other resources	-	kg
Electricity consumption	0	kWh
Material loss	2	%

Reference service life

The declared reference service life only applies for the reference conditions which are stated below.

Name	Value	Unit
Life Span according to the manufacturer	75	а
Declared product properties	/ASTM C423/: "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method" /ASTM C165/: "Standard Test Method for Measuring Compressive Properties of Thermal Insulations".	

ROCKWOOL

	-/ASTM E96/: "Standard	
	Test Methods for Water	
	Vapor Transmission of	
	Materials".	
	-/ASTM C518 (C177)/:	
	"Standard Test Method for	
	Steady-State Thermal	
	Transmission Properties by	
	Means of the Heat Flow	
	Meter Apparatus".	
	-/ASTM E84 (UL 723)/:	
	"Standard Test Method for	
	Surface Burning	
	Characteristics of Building	
	Materials".	
	-/ASTM C1338/: "Standard	
	Test Method for determining	
	Fungi Resistance of	
	Insulation Materials and	
	Facings".	
Design Application	See installation guidelines.	
parameters, including	Installation to be conducted	
references to the	in accordance with	
appropriate practices	manufacturer's guidelines	
Quality of work	It is assumed that the manufacturer's instructions	
assumption when		
installed in accordance		
with the manufacturer's	case of any uncertainty the manufacturer should be	
instructions	contacted for instructions	
	Contacted for instructions	
Outdoor environment,	Not for outdoor application,	
e.g. weathering, pollutants, UV and	except if specifically stated	
wind	on the product	
	Not in direct contact with	
Indoor Environment,	indoor environment, except	
e.g. temperature,	if specifically stated on the	
moisture etc.	product.	
Usage conditions, e.g.	No usage conditions, except	
frequency of use,	if specifically stated on the	
mechanical exposure	product. Please follow	
etc.	manufacturer's guidelines	
Maintenance, e.g.	No maintenance is generally	
required frequency,	required, unless specifically	
type and quality of	stated on the product.	
replacement	Please refer to manufacturer	
components	guidelines	
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End of life (C1 - C4)

Name	Value	Unit
Landfilling	1.48	kg
Transport to landfill	50	km
Utilization rate	50	%

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 coproducts and that have passed the end-of-waste state are included in module D. Such declared benefits can for ROCKWOOL products occur in stages A5, C3 and C4. For the internal recycling of stone wool it is important that no double counting occurs. The outputs of waste stone wool from modules A5 and C1 are considered linked to the inputs of waste stone wool into A1. Therefore only the net output flow (output from A5 plus C1 minus input to A1) is considered as a net output flow from the system and considered in Module D.

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LCA: Results

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 | Use | Maintenance
Repair
 | Replacement
 | Refurbishment
 | Operational energy
use | Operational water
use | De-construction
demolition
 | Transport | Waste processing | Disposal | Reuse- | Recovery-
Recycling-
potential
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ROCKWOOL	Owner of the Declaration ROCKWOOL International A/S Hovedgaden 584 2640 Hedehusene Denmark	Tel Fax Mail Web	+45 46 56 03 00 +45 46 56 33 11 info@rockwool.com www.rockwoolgroup.com

Annex

For the following facing options, applicable to ROCKWOOL technical insulation products:

Black mat facer, reinforced foil facer, fiberglass facer

to the

ENVIRONMENTAL PRODUCT DECLARATION

as per/ISO 14025/ and /EN 15804/

Owner of the Declaration	ROCKWOOL International A/S (ROCKWOOL Technical Insulation)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-RWI-20190075-CCD1-EN
Issue date	18.06.2019
Valid to	17.06.2019

ROCKWOOL stone wool technical insulation ROCKWOOL International A/S (ROCKWOOL Technical Insulation)



www.ibu-epd.com / https://epd-online.com

LCA: Results for the facing options

The LCA approach for the facings options follows the general methodology and assumptions from ROCKWOOL International, as these are explained in the background methodology report and have been verified and approved. This Annex is not a stand-alone document and it is used as a supplementary file to the verified EPD for technical Insulation.

Below the impact assessment results and life cycle indicators are presented, for all the possible facing options that can be available in a ROCKWOOL Technical Insulation product. If the provided product has the specific facing, its final impact result is given by adding the result of the product, as calculated above, and the result of the specific facing option. Both results are expressed per m² therefore no additional conversion is needed, The final result is given by the formula:

Environmental Impact per m² product x-with facing = Environmental Impact product x without facing + Environmental Impact_{racing} material

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PRODUC	CT STAGE	CONST ON PRO STA	RUCTI				SE STAC						FE STA		CLARED BENEFITS AN LOADS BEYOND TH SYSTEM BOUNDARIE
supply Transort	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 A	2 A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X >	x x	X	х	X	MND	MNR	MNR	MNR	MND	MND	X	Х	X	X	X
ESUL	TS OF T	HE LCA	A - EN	VIRON	MENT	TAL IM	PACT	: 1 m	² Reinf	orced	foll fa	cel			
aram	Unit	A1-/	A3	A4		A5	B	1	C1		C2	C	3	C4	D
eter GWP ()	kgCO ₂ -Eq.]	4.5	8E-01	3.03E-	03 0	0.00E+00	0.00	0E+00	0.00E+	-00	4.26E-04	0.00	DE+00	7,43E	-04 0,00E+
	CFC11-Eq		9E-19	4,24E-		00E+00		DE+00	0.00E+		7,09E-20		DE+00	4,05E	-18 0.00E+
	kg SO ₂ -Eq.]		4E-03	2 42E-		0,00E+00		0E+00	0,00E+	-00	3,65E-07		0E+00	4,05E	
	g (PO4)3-Eq	_	3E-04	4,85E-		00E+00		DE+00	0,00E+		8,11E-08		0E+00	4,73E	
OCP [kg	gethene-Eg		4E-04	1,21E-		00E+00		DE+00	0,00E+		1,35E-09		DE+00	3,38E	
DPE	[kgSb-Eq.] [MJ]		0E-07 3E+00	1,82E- 3,64E-		00E+00		0E+00	0,00E+ 0,00E+		3 31E-11 5 81E-03		0E+00	2,70E 1,01E	
esul. arameter	1	HE LC# A1-A3		A4		45	B1		C1	_	C2	C3		C4	D
PERE	[MJ]	2,50E		1,82E-0		E+00	0,00E+		0.00E+00		45E-04		E+00	1,35E	
PERM	[MJ]	0,00E 2,50E		0,00E+0		E+00	0 00E+		0.00E+00		00E+00)E+00		
DEDT	[MJ]	ZOUE		1,82E-0		E+00						0,00		1 350	
PERT	1 0.40		1001	3 03E-0	21 0.00	E+00			0.00E+00			0.00)E+00		-03 0,00E+
PENRE	[MJ]	6,20E		3,03E-0		E+00 E+00	0,00E+	-00	0 00E+00 0 00E+00	5	88E-03)E+00	1,35E 1,08E 0,00E	-03 0.00E+ -02 0.00E+
PENRE	[MJ]	6,20E 0,00E	+00	3.03E-0 0.00E+0 3.03E-0	0,00	E+00 E+00 E+00		-00	0.00E+00	5	6,88E-03	0,00		1,08E 0,00E 1,08E	-03 0,00E+ -02 0,00E+ +00 0,00E+ -02 0,00E+
PENRE		6,20E	+00	0,00E+0	0,00	E+00	0 00E+ 0 00E+	-00 -00 -00 -00	0 00E+00 0 00E+00 0 00E+00 0 00E+00 0 00E+00	5 0 5	88E-03 00E+00 88E-03 00E+00	0,00)E+00)E+00)E+00	1,08E 0,00E 1,08E 0,00E	-03 0,00E+ -02 0,00E+ +00 0,00E+ -02 0,00E+ +00 0,00E+
PENRE PENRM PENRT	[MJ] [MJ]	6 20E 0 00E 6 20E 0 00E 0 00E	+00 +00 +00 +00	0.00E+0 3.03E-0 0.00E+0 0.00E+0	0 0 00 2 0 00 0 0 00 0 0 00	E+00 E+00 E+00 E+00	0 00E+ 0 00E+ 0 00E+ 0 00E+ 0 00E+	-00 -00 -00 -00 -00	0 00E+00 0 00E+00 0 00E+00 0 00E+00 0 00E+00 0 00E+00	5 0 5 0 0	88E-03 00E+00 88E-03 00E+00 00E+00	0,00 0,00 0,00)E+00)E+00)E+00)E+00	1,08E 0,00E 1,08E 0,00E 0,00E	-03 0.00E+ -02 0.00E+ +00 0.00E+ -02 0.00E+ +00 0.00E+ +00 0.00E+
PENRE PENRM PENRT SM RSF NRSF	[MJ] [MJ] [MJ] [MJ]	6 20E 0 00E 6 20E 0 00E 0 00E 0 00E	+00 +00 +00 +00 +00	0.00E+0 3.03E-0 0.00E+0 0.00E+0 0.00E+0	0 0 00 2 0 00 0 0 00 0 0 00 0 0 00	E+00 E+00 E+00 E+00 E+00	0 00E+ 0 00E+ 0 00E+ 0 00E+ 0 00E+ 0 00E+	-00 -00 -00 -00 -00 -00	0 00E+00 0 00E+00 0 00E+00 0 00E+00 0 00E+00 0 00E+00 0 00E+00	5 0 5 0 0 0	88E-03 00E+00 88E-03 00E+00 00E+00 00E+00	0,00 0,00 0,00 0,00)E+00)E+00)E+00)E+00)E+00	1,08E 0,00E 1,08E 0,00E 0,00E 0,00E	-03 0,00E+ -02 0,00E+ +00 0,00E+ -02 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+
PENRE PENRM PENRT SM RSF NRSF FW	MJ MJ Kg MJ MJ MJ MJ PERE : renewable non-rer	6,20E 0,00E 6,20E 0,00E 0,00E 6,22E = Use of re primary e ewable pri	+00 +00 +00 +00 =-03 enewab nergy re rimary e	0,00E+0 3,03E-0 0,00E+0 0,00E+0 0,00E+0 3,03E-0 eprimary esources energy ex	0 0 00 2 0 00 0 0 00 0 0 00 0 0 00 6 0 00 4 energy used as cluding	E+00 E+00 E+00 E+00 E+00 E+00 E+00 y excludi raw ma non-ren	0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ ng renew terials; P ewable p	00 00 00 00 00 00 00 00 00 00 00 00 00	0 00E+00 0 00E+00 0 00E+00 0 00E+00 0 00E+00 0 00E+00 0 00E+00 0 00E+00 Total use energy re: = Total us SF = Use	5 0 0 0 0 5 0 0 5 5 0 5 5 5 5 5 5 5 5 5	88E-03 00E+00 88E-03 00E+00 00E+00 00E+00 574E-07 sources us wable prive as n-renewa	0,00 0,00 0,00 0,00 0,00 0,00 sed as r mary en raw ma ble prin	DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00	1,08E 0,00E 1,08E 0,00E 0,00E 2,64E erials; PE sources; PENRM ergy reso	-03 0,00E+ -02 0,00E+ +00 0,00E+ -02 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+
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PENRE PENRM PENRT SM RSF NRSF FW aption ESUL arameter	MJ MJ Kg MJ MJ m ² PERE : renewable non-rer renewable of seconda TS OF T r Unit	6,20E 0,00E 6,20E 0,00E 0,00E 6,22E = Use of re primary e ry materia HE LC/	+00 +00 +00 +00 -03 enewab nergy re rimary e nergy r al; RSF	0,00E+0 3,03E-0 0,00E+0 0,00E+0 0,00E+0 3,03E-0 le primary asources l anergy ex esources = Use of	0 0,000 2 0,000 0 0,000 0 0,000 0 0,000 6 0,000 v energy used as reriewa FLOI	E+00 E+00 E+00 E+00 E+00 E+00 E+00 y excludi raw ma non-rem s raw ma ble seco	0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ terials; P ewable p terials; F ndary fur D WAA B1	00 00 00 00 00 00 00 00 00 00 00 00 00	0.00E+00 0.00E+000E+0	5 0 0 0 0 0 0 5 0 0 0 5 5 0 0 0 5 5 0 0 0 5 5 0 0 0 0 5 5 0 0 0 0 0 0 5 5 5 0 0 0 0 0 0 0 0 0 5 5 5 0	88E-03 00E+00 88E-03 00E+00 00E+00 00E+00 00E+00 5.74E-07 ources u wable pri used as n-renewable Rein C2 3.27E-10	0,00 0,00 0,00 0,00 0,00 0,00 sed as r mary en raw ma ble prim e secon	DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 reary reactions (and any fue dary fue dary fue dary fue	1,08E 0,00E- 1,08E 0,00E- 0,00E- 2,64E erials; PE sources; PENRM ergy reso els; FW = C4 1,79E	-03 0,00E+ -02 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ ERM = Use of PENRE = Use = Use of non- nurces; SM = U = Use of net fre D E-10 0,00E+
PENRE PENRM PENRT SM RSF NRSF FW aption	MJ MJ MJ MJ MJ MJ MJ m ² PERE renewable non-rer renewable of seconda	6,20E 0,00E 6,20E 0,00E 0,00E 0,00E 6,22E Use of re primary er ewable point ry materia HELC/ A1-A3	+00 +00 +00 +00 -03 enewab nergy re rimary e nergy re rimary e al; RSF	0,00E+0 3,03E-0 0,00E+0 0,00E+0 3,03E-0 3,03E-0 3,03E-0 energy ex- esources = Use of UTPUT A4 1,90E-0 2,77E-0	0 0,00 2 0,00 0 0,00	E+00 E+00 E+00 E+00 E+00 F+00 y excludi raw ma ble seco VS AN A5 00E+00 00E+00	0,00E+ 0,	00 00 00 00 00 00 00 00 00 00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+01 0.00E+01 0.00E+01 SF = Use er C1 0.00E+(0.00E+(0.00E+(0.00E+(5 0 0 0 0 0 0 0 5 5 of rene sources se of non-i 0 RIES	88E-03 00E+00 58E-03 00E+00 00E+00 00E+00 00E+00 574E-07 ources u wable pri used as renewable Relin C2 3,27E-10 1,76E-07	0,00 0,00 0,00 0,00 0,00 0,00 0,00 sed as r mary en raw ma ble prim e secon 0,00 C3 0,00 0,00	DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00	1,08E 0,00E 1,08E 0,00E 0,00E 2,64E erials; Pf sources; PENRM ergy reso bis; FW = C4 1,79E 4,89E	-03 0,00E+ -02 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ =06 0,00E+ ERM = Use of PENRE = Use = Use of non- surces; SM = U = Use of net fre D =-10 0,00E+ -02 0,00E+
PENRE PENRM PENRT SM RSF FW aption ESUL aramete HWD NHWD RWD	MJ MJ Ikg MJ MJ MJ MJ MJ MJ MJ MJ PERE : renewable of seconda r COPT	6,20E 0,00E 6,20E 0,00E 0,00E 0,00E c Use of re primary e ry materia HE LC/ A1-A3 4,98E 1,22E 0,00E	+00 +00 +00 +00 -03 enewab nergy re rimary e nergy ra al; RSF	0,00E+0 3,03E-0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 3,03E-0 3,03E-0 3,03E-0 1,90E-0 2,77E-0 0,00E+0	0 0,00 2 0,00 0 0,00	E+00 E+00 E+00 E+00 E+00 F+00 F+00 y excludi raw ma hon-renu s raw ma ble seco VS AN A5 00E+00 00E+00 00E+00	0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ ng renev terials; P ewable p terials; P mdary fur D WAA B1 0,000 0,000	00 00 00 00 00 00 00 00 00 00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 rimary end Total use SF = Use er C1 0.00E+(0.00E+(0.00E+(0.00E+(0.00E+(0.00E+(0.0E	5 0 5 0	88E-03 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00	0,00 0,00 0,00 0,00 0,00 0,00 sed as r mary en raw ma ble prim a secon C3 0,00 0,00 0,00	DE+00	1,08E 0,00E 1,08E 0,00E 0,00E 2,64E erials; PE sources; PENRM ergy reso els; FW = C4 1,79E 4,89E 0,00E	-03 0,00E+ -02 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ ERM = Use of PENRE = Use = Use of non- urces; SM = U = Use of net free -05 -00 0,00E+ -02 0,00E+ -02 0,00E+ +00 0,00E+
PENRE PENRM PENRT SM RSF FW aption B ESUL aramete HWD NHWD RWD CRU	[MJ] [M] PERE: renewable of seconda TS OFT [Kg] [Kg] [Kg] [Kg] [Kg]	6,20E 0,00E 6,20E 0,00E 0,00E 0,00E 0,00E 0,00E events of reprimary er ry materia HELC/ A1-A3 4,98E 1,22E 0,00E 0,00E	+00 +00 +00 +00 -03 enewab nergy re rimary e rimary e rimary e -09 -01 +00 +00	0,00E+0 3,03E-0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 3,03E-0 le primary asources = Use of 000E+0 0,00E+0	0 0,00 2 0,00 0 0,00 0 0,00 0 0,00 0 0,00 6 0,00 0 0,00 0 0,00 6 0,00 0 0,00	E+00 E+00 E+00 E+00 E+00 F+00 F+00 F excludi raw ma non-rene s raw ma ble seco VS AN A5 00E+00 00E+00 00E+00 00E+00	0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ remain the remain the rem	00 00 00 00 00 00 00 00 00 00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+10 0.00E+10 0.00E+11 0.00E+11 0.00E+11	5 0 5 00 00 00 00	88E-03 00E+00 00E+00 00E+00 00E+00 574E-07 ources u wable pri wable pri wable pri enewable Rein C2 3,27E-10 1,76E-07 0,00E+00 0,00E+00	0,00 0,00 0,00 0,00 0,00 0,00 sed as r mary en raw ma ble prim e secon C3 0,00 0,00 0,00 0,00	DE+00	1,08E 0,00E- 1,08E 0,00E- 0,00E- 2,64E erials; PE sources; PENRM ergy reso els; FW = C4 1,79E 4,89E 0,00E- 0,00E-	-03 0,00E+ -02 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ -06 0,00E+ ERM = Use of non- urces; SM = U = Use of net fre D -10 0,00E+ +00 0,00E+ +00 0,00E+
PENRE PENRM PENRT SM RSF FW aption B aramete HWD NHWD RWD CRU CRU MFR	MJ MJ MJ MJ MJ MJ MJ MJ MJ PERE : renewable of seconda TS OF T r Unit [kg] [kg] [kg] [kg] [kg]	6,20E 0,00E 6,20E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E HELC/ A1-A3 4,98E 1,22E 0,00E 0,00E 0,00E	+00 +00 +00 -03 enewab nergy ra rimary e nergy ra al; RSF -09 -01 +00 +00	0,00E+0 3,03E-0 0,00E+0 0,00E+0 0,00E+0 3,03E-0 le primary assources = Use of UTPUT A4 1,90E-0 2,77E-0 0,00E+0 0,00E+0 0,00E+0 0,00E+0	0 0,000 2 0,000 0 0	E+00 E+00 E+00 E+00 F+00 y excludi raw ma hon-renc s raw ma ble seco VS AN A5 00E+00 00E+00 00E+00 00E+00 00E+00	0,00E+ 0,	00 00 00 00 00 00 00 00 00 00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+10 C1 0.00E+10 0.00E+1 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+00 000E+00 0.00E+000 0.00E+00 0.00E+00 0.00E+00 0.00E+000 0.00E+000	5 0	88E-03 00E+00 00E+00 00E+00 00E+00 00E+00 574E-07 ources u wable pri used as n-renewable Rein C2 3,27E-10 1,76E-07 00E+00 00E+00 00E+00 00E+00	0,00 0,00 0,00 0,00 0,00 0,00 0,00 sed as r mary en raw ma ble prim e secon C3 0,00 0,00 0,00 0,00 0,00 0,00	bE+00	1,08E 0,00E 1,08E 0,00E 0,00E 2,64E erials; PE sources; PENRM ergy reso els; FW = C4 1,79E 4,89E 0,00E 0,00E	-03 0,00E+ -02 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ ERM = Use of PENRE = Use = Use of non- urces; SM = U = Use of net fre D = 10 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+
PENRE PENRM PENRT SM RSF FW aaption caption saption RU Autor NHWD RWD RWD RWD RWD RWD RWD RWD RWD RWD R	IMJ IMJ IMJ IMJ IMJ IMJ IMJ IMJ PERE = renewable of seconda TS OF 1 r Unit Ikg Ikg Ikg Ikg Ikg Ikg	6,20E 0,00E 6,20E 0,00E 0,00E 0,00E 0,00E 0,00E eUse of re primary er evable primary er evable primary er primary er try material HE LC/ A1-A3 4,98E 1,22E 0,00E 0,00E 0,00E	+00 +00 +00 +00 -03 enewab nergy fr rimary e nargy fr rimary e -09 -01 +00 +00 +00 +00	0,00E+0 3,03E-0 0,00E+0 0,00E+0 3,03E-0 3,03E-0 3,03E-0 anergy ex- esources = Use of 000E+0 0,00E+0 0,00E+0 0,00E+0 0,00E+0	0 0,00 2 0,00 0 0,000 0 0,00	E+00 E+00 E+00 E+00 E+00 y excludi raw ma hon-rend s raw ma ble seco VS AN A5 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00	0,00E+ 0,	00 00 00 00 00 00 00 00 00 00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+10 0.00E+000E+0	5 0	88E-03 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00	0,00 0,00 0,00 0,00 0,00 0,00 0,00 0,0	DE+00	1,08E 0,00E 1,08E 0,00E 0,00E 2,64E erials; PF sources; PENRM ergy reso els; FW = C4 1,79E 4,89E 0,00E 0,00E 0,00E	-03 0,00E+ -02 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ ERM = Use of ERM = Use of non- -00 0,00E+ -05 0,00E+ -02 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+
PENRE PENRM PENRT SM RSF FW Caption Caption Caption Caption NHWD RWD CRU CRU MFR	MJ MJ MJ MJ MJ MJ MJ MJ MJ PERE : renewable of seconda TS OF T r Unit [kg] [kg] [kg] [kg] [kg]	6,20E 0,00E 6,20E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E HELC/ A1-A3 4,98E 1,22E 0,00E 0,00E 0,00E	+00 +00 +00 -03 enewab nergy re rimary e nergy re rimary e enewab nergy re rimary e enewab nergy re rimary e enewab nergy re rimary e enewab	0,00E+0 3,03E-0 0,00E+0 0,00E+0 0,00E+0 3,03E-0 le primary assources = Use of UTPUT A4 1,90E-0 2,77E-0 0,00E+0 0,00E+0 0,00E+0 0,00E+0	0 0,00 2 0,00 0 0,00	E+00 E+00 E+00 E+00 F+00 y excludi raw ma hon-renc s raw ma ble seco VS AN A5 00E+00 00E+00 00E+00 00E+00 00E+00	0,00E+ 0,	00 00 00 00 00 00 00 00 00 00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+10 C1 0.00E+10 0.00E+1 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+10 0.00E+00 000E+00 0.00E+000 0.00E+00 0.00E+00 0.00E+00 0.00E+000 0.00E+000	5 0 5 0	88E-03 00E+00 00E+00 00E+00 00E+00 00E+00 574E-07 ources u wable pri used as n-renewable Rein C2 3,27E-10 1,76E-07 00E+00 00E+00 00E+00 00E+00	0,00 0,00 0,00 0,00 0,00 0,00 0,00 0,0	bE+00	1,08E 0,00E 1,08E 0,00E 0,00E 2,64E erials; PE sources; PENRM ergy reso els; FW = C4 1,79E 4,89E 0,00E 0,00E	-03 0,00E+ -02 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ -06 0,00E+ ERM = Use of PENRE = Use = Use of non- nurces; SM = U = Use of net fre D -10 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+ +00 0,00E+

PRÓDUC	CT STAC		CONST ON PRO STA	DCESS			U	SE STAC	GE		-	ENI	OF LI	FE STA	GE	L BEY S	EFITS AN OADS OND THE YSTEM INDARIES
Raw material supply	Transport	Manutacturing	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 A	A2 A	13	A4	A5	B1	B2	B 3	B 4	B5	B6	B7	C1	C2	C3	C4		D
X	X)	x	X	х	X	MND	MNR	MNR	MNR	MND	MND	X	х	X	X		х
RESUL	TS OF	TH	E LCA	- EN	VIRON	MEN1	AL IN	PACT	: 1 m ²	Fiber	glass	facer					
Param eter	Unit		A1-4	1	A4		A5	B		C1		C2	C		C4		D
	[kg CO ₂ -E			6E-02	1,68E-		0.00E+00		0E+00	0.00E+		2,63E-04		DE+00	4,49E		0.00E+
	GCFC11-			4E-19	2.42E-		00E+00		0E+00	0.00E+		4.37E-20 2.24E-07		DE+00	2,58E 2,68E		0.00E+ 0.00E+
	Kg SO2-E			6E-04	1,30E- 2,79E-		00E+00		0E+00 0E+00	0,00E+		2 24E-07 4 98E-08		DE+00	2,00E		0.00E+
	kg (PO4) ³ - kg ethene-			4E-05 2E-05	2 /9E- 5 59E-		00E+00		0E+00	0,00E+		9,06E-10		DE+00	2,33L		0.00E+
	(kg Sb-E			5E-05	1.12E		00E+00		0E+00	0.00E+		2,03E-11		DE+00	1,64E		0,00E+
	Trail of the	-1-1								0.00E+				DE+00	6,29E	-03	0,00E+
ADPF Caption	Eutroph	nicatio	al warmir n potenti IE LC/	ial; POC	P = Form fos	= Deple ation po ssil resou	tential of urces; AD	ntial of th troposph)PF = Ab	ieric ozoi iotic dep	pheric oze ne photoc letion pote	one laye hemical ential for	oxidants;	idificatio ADPE =	on poten Abiotic	tial of lan	d and	water; EP ntial for nor D
ADPF Caption RESUL Paramete PERE PERM	GWP = (Eutroph TS OF er Unit [MJ]	t	Al warmir In potenti A1-A3 1,87E 0,00E	ng poter ial; POC	ntial; ODP P = Form fos SOUR A4 1,12E-0 0,00E+0	= Deple ation po ssil resou 3 0 (0 0 (tion pote tential of urces; AD E Fill A5 D0E+00 D0E+00	ntial of th troposph PF = Ab erglas B1 0,001 0,001	e stratos ieric ozor iotic dep ss faco E+00 E+00	pheric oze ne photoc letion pote C1 0,00E+(0,00E+(one laye hemical ential for 00 2 00 0	r; AP = Ac oxidants; fossil resc C2 2.10E-04 .00E+00	C3 0,00 0,00	Abiotic Abiotic	tial of land depletion C4 8,31E 0,00E	d and poter -04 +00	D 0.00E+ 0.00E+
ADPF Caption RESUL Paramete PERE PERM PERT	GWP = (Eutroph TS OF er Unit [MJ] [MJ]	icatio	al warmir n potenti E LC 4 A1-A3 1,87E 0,00E 1,87E	ng poter ial; POC -01 +00 -01	ntial; ODP P = Form fos SOUR A4 1,12E-0 0,00E+0 1,12E-0	= Deple ation po ssil resou 3 0 0 0 3 0	tion poter tential of urces; AD E File A5 DDE+00 DDE+00 DDE+00	ntial of th troposph PF = Ab erglas B1 0,001 0,001 0,001	e stratos ieric ozor iotic dep ss fac E+00 E+00 E+00 E+00	epheric oze ne photoc letion pote C1 0,00E+(0,00E+(0,00E+(one laye hemical ential for 00 2 00 0 00 2	r; AP = Ac oxidants; fossil resc C2 2,10E-04	C3 0,00 0,00 0,00	Abiotic	tial of landepletion	d and poter -04 +00 -04	D 0,00E+ 0,00E+ 0,00E+
ADPF Caption RESUL Paramete PERE PERM PERT PENRE	GWP = Eutroph TS OF er Unit [MJ] [MJ] [MJ]	icatio	Al warmir In potenti A1-A3 1,87E 0,00E	ng poter ial; POC - RE -01 +00 -01 +00	ntial; ODP P = Form fos SOUR A4 1,12E-0 0,00E+0	= Deple ation po ssil resol CE US 3 0 (3 0 (3 0 (3 0 (2 0 (tion pote tential of urces; AD E Fill A5 D0E+00 D0E+00	ntial of th troposph PF = Ab B1 0,001 0,001 0,001 0,001 0,001	e stratos ieric ozor iotic dep ss faco E+00 E+00	pheric oze ne photoc letion pote C1 0,00E+(0,00E+(one laye hemical antial for 00 2 00 0 00 2 00 3 00 3 00 0	r; AP = Ac oxidants; fossil reso C2 2.10E-04 0.00E+00 2.10E-04 3.61E-03 0.00E+00	idificatic ADPE = purces C3 0,00 0,00 0,00 0,00 0,00	Dn poten Abiotic DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00	tial of lan depletion C4 8,31E 0,00E 8,31E 6,44E 0,00E	d and poter -04 +00 -04 -03 +00	D 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+
ADPF Caption RESUL Paramete PERE PERM PERT	GWP = Eutroph er Unit [MJ] [MJ] [MJ]	t	Al warmin n potenti A1-A3 1,87E 0,00E 1,87E 1,02E	ng poter ial; POC -01 -01 +00 +00 +00	ntial; ODP P = Form fos SOUR A4 1,12E-0 0,00E+0 1,12E-0 2,05E-0	= Deple ation poo ssil resou 3 0 0 0 3 0 2 0 0 0 2 0	tion poter tential of urces; AE E File A5 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00	htial of th troposph PF = Ab et glas B1 0,001 0,001 0,001 0,001 0,001 0,001	e stratos leric ozor iotic dep s face E+00 E+00 E+00 E+00 E+00 E+00 E+00 E+0	spheric oz ne photoc letion pote C1 0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(one laye hemical antial for 00 2 00 0 00 2 00 3 00 0 00 3	r; AP = Ac oxidants; fossil reso C2 10E-04 00E+00 10E-04 00E+00 00E+00 3.61E-03	idificatic ADPE = c3 0,00 0,00 0,00 0,00 0,00 0,00	Dia poten Abiotic DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00	tial of lan depletion C4 8,31E 0,00E- 8,31E 6,44E 0,00E- 6,44E	d and poter -04 +00 -04 -03 +00 -03	D 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+
ADPF Caption RESUL Paramete PERE PERM PENR PENREM PENRT SM	GWP = Eutroph TS OF mar Unit [MJ] [MJ] [MJ] [MJ] [MJ] [MJ]	t	al warmir n potenti ELCA A1-A3 1,87E 0,00E 1,87E 1,02E 0,00E 1,02E 0,00E	ng poter ial; POC -01 +00 -01 +00 +00 +00 +00	tial; ODP P = Form fos SOUR A4 1,12E-0 0,00E+0 1,12E-0 2,05E-0 0,00E+0 2,05E-0 0,00E+0	= Deple ation poo ssil resou 3 0 0 0 3 0 2 0 0 0 2 0 0 0 0 0	tion pote tential of urces; AC E FIE A5 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00	htial of th troposph PF = Ab B1 0,001 0,001 0,001 0,001 0,001 0,001 0,001	e stratos leric ozor iotic dep SS fac E+00 E+00 E+00 E+00 E+00 E+00 E+00 E+0	pheric oz/ ne photoc letion pote C1 0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(one laye hemical antial for 00 2 00 0 00 2 00 3 00 0 00 3 00 0 00 3 00 0	r; AP = Ac oxidants; fossil resc C2 2, 10E-04 0,0E+00 2, 10E-04 0,61E-03 0,00E+00 3,61E-03 0,00E+00	idificatic ADPE = c3 0,00 0,00 0,00 0,00 0,00 0,00 0,00 0	Phi poten Abiotic E+00	tial of lan depletion C4 8,31E 0,00E 8,31E 6,44E 0,00E 6,44E 0,00E	-04 -04 -04 -03 -03 +00 -03 +00	D 0,00E++ 0,00E++ 0,00E++ 0,00E++ 0,00E++ 0,00E++ 0,00E++
ADPF Caption RESUL Paramete PERE PERM PENRE PENRE PENRT SM RSF	GWP = Eutroph TS OF er Unit [MJ] [MJ] [MJ] [MJ] [MJ] [MJ] [MJ] [MJ]		al warmir n potenti ELCA A1-A3 1,87E 0,00E 1,87E 1,02E 0,00E 1,02E 0,00E 0,00E	ng poter al; POC -01 +00 -01 +00 +00 +00 +00 +00	tital; ODP P = Form fos SOUR A4 1,12E-0 0,00E+0 2,05E-0 0,00E+0 2,05E-0 0,00E+0 0,00E+0 0,00E+0	= Deple ation po ssil resolution 3 0 0 0 0 0 2 0 0 0 0 0 0 0 0	tion pote tential of urces; AC E FIE A5 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00	htial of th troposph PF = Ab B1 0,001 0,001 0,001 0,001 0,001 0,001 0,001 0,001	e stratos leric ozor iotic dep S. factor E+00 E+00 E+00 E+00 E+00 E+00 E+00 E+0	pheric oz ne photoc letion pate C1 0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(One laye hemical antial for 00 2 00 0 00 2 00 0 00 2 00 3 00 3 00 0 00 0 00 0 00 0 00 0	r; AP = Ac oxidants; fossil resc C2 2.10E-04 0.0E+00 2.10E-04 0.61E-03 0.0E+00 0.0E+00 0.0E+00	idificatic ADPE = xurces C3 0,00 0,00 0,00 0,00 0,00 0,00 0,00 0	an poten Abiotic be+00	tial of lan depletion C4 8,31E 0,00E- 8,31E 6,44E 0,00E- 6,44E 0,00E- 0,00E-	-04 -04 +00 -04 -03 +00 +00 +00	D 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+
ADPF Caption RESUL Paramete PERE PERM PENRE PENRM PENRT SM RSF NRSF	GWP = Eutroph TS OF er Unit [MJ] [MJ] [MJ] [MJ] [MJ] [MJ] [MJ] [MJ]		al warmir n potenti ELCA A1-A3 1,87E 0,00E 1,87E 1,02E 0,00E 1,02E 0,00E	ng poter al; POC -01 +00 -01 +00 +00 +00 +00 +00 +00 +00	tial; ODP P = Form fos SOUR A4 1,12E-0 0,00E+0 1,12E-0 2,05E-0 0,00E+0 2,05E-0 0,00E+0	= Deple ation po ssil resolu- 3 0 4 0 0 4 3 0 4 0 0 4 2 0 4 0 0 0 4 0 0 0 4 0 0 0 0	tion pote tential of urces; AC E FIE A5 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00	htial of th troposph PF = Ab B1 0,001 0,001 0,001 0,001 0,001 0,001 0,001 0,001 0,001	e stratos leric ozor iotic dep SS fac E+00 E+00 E+00 E+00 E+00 E+00 E+00 E+0	pheric oz/ ne photoc letion pote C1 0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(0,00E+(One laye hemical antial for 00 2 00 0 00 2 00 0 00 3 00 0 00 3 00 0 00 0 00 0 00 0 00 0 00 0	r; AP = Ac oxidants; fossil resc C2 2, 10E-04 0,0E+00 2, 10E-04 0,61E-03 0,00E+00 3,61E-03 0,00E+00	idificatic ADPE = xurces C3 0,00 0,00 0,00 0,00 0,00 0,00 0,00 0	Phi poten Abiotic E+00	tial of lan depletion C4 8,31E 0,00E 8,31E 6,44E 0,00E 6,44E 0,00E	-04 -04 -04 -03 +00 -03 +00 +00 +00	D 0.00E+ 0.00E+ 0.00E+ 0.00E+ 0.00E+ 0.00E+ 0.00E+ 0.00E+ 0.00E+
ADPF Caption RESUL Paramete PERE PERR PENRE PENRE PENRE SM RSF NRSF FW Caption	GWP = Eutroph TS OF er Unit MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ	t RE = t	Al warmin n potenti A1-A3 1,87E 0,00E 1,87E 1,02E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E	Age poter ial; POC	tital; ODP P = Form fos SOUR A4 1,12E-0 2,05E-0 0,00E+0 2,05E-0 0,00E+0 0,00E+0 0,00E+0 2,05E-0 0,00E+0 2,05E-0 le primarp sources = Use of	= Deple ation po ssil resources 3 0.4 0 0.1 3 0.4 2 0.4 0 0.4 2 0.4 0 0.	tion pote tential of urces; AD A5 00E+000 00E+000 00E+000 00E+00000000	ntial of th troposph IPF = Ab B1 0,001	e stratos letic ozor lotic dep s fate E+00 E+00 E+00 E+00 E+00 E+00 E+00 E+0	pheric oz, ne photoc letion pote C1 0,00E+(0,00E+(0,	one laye hemical antial for 00 2 00 0 00 2 00 0 00 0 00 0 00 0 00	r; AP = Ac oxidants; fossil resc c2 2,10E-04 0,0E+00 2,10E-04 0,61E-03 0,00E+0000000000	idificatic ADPE = purces C3 0,00 0,00 0,00 0,00 0,00 0,00 0,00 0	Abiotic Abiotic E+00 E+00 E+00 E+00 E+00 E+00 E+00 E+0	tial of lan depletion 6,41 0,00E- 8,31E 0,00E- 6,44E 0,00E- 0,00E	d and poter -04 +00 -04 +00 +00 +00 +00 +00 +00 +00 +00 +00 -06 ERM : PENI = Use uurces	0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+
ADPF Caption RESUL Paramete PERE PERR PENRE PENRE PENRE SM RSF NRSF FW Caption	GWP = Eutroph TS OF er Unit MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ	t RE = t	Al warmin n potenti A1-A3 1,87E 0,00E 1,87E 1,02E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E	ng poter ial; POC -01 +00 -01 +00 +00 +00 +00 +00 +00 +00 +00 +00 +	tital; ODP P = Form fos SOUR A4 1,12E-0 2,05E-0 0,00E+0 2,05E-0 0,00E+0 0,00E+0 0,00E+0 2,05E-0 0,00E+0 2,05E-0 le primarp sources = Use of	= Deple ation po ssil resources 3 0.4 0 0.1 3 0.4 2 0.4 0 0.4 2 0.4 0 0.	tion pote tential of urces; AD UDE+00 00E+000 00E+000 00E+000 00E+000 00000000	ntial of th troposph IPF = Ab B1 0,001	e stratos letic ozor lotic dep s fate E+00 E+00 E+00 E+00 E+00 E+00 E+00 E+0	pheric oz, ne photoc letion pote C1 0,00E+(0,00E+(0,0)))))))))))))))))	one laye hemical antial for 00 2 00 0 00 2 00 0 00 2 00 3 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 3 ergy res of non-too of non-too of non-too	r; AP = Ac oxidants; fossil resc C2 2, 10E-04 0,0E+00 2, 10E-04 0,61E-03 0,0E+000 0,0E+0000000000	idificatic ADPE = purces C3 0,00 0,00 0,00 0,00 0,00 0,00 0,00 0	Abiotic Abioti	tial of lan depletion 6,415 0,00E- 6,44E 0,00E- 6,44E 0,00E- 0,00E- 1,62E erials; PE sources; PENRM argy reso	d and poter -04 +00 -04 +00 +00 +00 +00 +00 +00 +00 +00 +00 -06 ERM : PENI = Use uurces	D 0.00E+0
ADPF Caption RESUL Paramete PERE PERR PENRE PENRE PENRE SM RSF NRSF FW Caption	GWP = Eutroph TS OF MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ	t RE = {	Al warmin n potenti A1-A3 1,87E 0,00E 1,87E 1,02E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E 0,00E	reg poter ial; POC -01 +00 -01 +00 +00 +00 +00 -04 mergy re imary e nergy re imary e anergy re imary e	tital; ODP P = Form fos SOUR A4 1,12E-0 0,00E+0 1,12E-0 2,05E-0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 2,05E-0 1,00E+0 2,05E-	= Deple ation po sil resou 3 0. 0 0. 2 0. 0 0. 2 0. 0 0. 2 0. 0 0. 0	tion pote tential of urces; AD DDE+00	ntial of th troposph IPF = Ab B1 0,000 0,001 0,000000	e stratos leric ozor itotic dep S fate E+00 E+00 E+00 E+00 E+00 E+00 E+00 E+0	Phenic ozyne photoc letion pote C1 0,00E+(0,00E+(0	one laye hemical antial for 00 2 00 0 00 2 00 0 00 3 00 0 00 3 00 0	r; AP = Ac oxidants; fossil resc c2 2, 10E-04 0,00E+00 2, 10E-04 3, 61E-03 0,00E+0000000000	idificatic ADPE = purces C3 0,00 0,00 0,00 0,00 0,00 0,00 0,00 0	Abiotic Abioti	C4 8,31E 0,00E 8,31E 0,00E 6,44E 0,00E 0,00E 0,00E 1,62E erials; PF sources; PENRM ergy reso als; FW =	d and poter -04 +00 -04 -03 +00 -03 +00 +00 +00 -06 ERM 1 PENI = Use purces = Use	D 0.00E+0
ADPF Caption RESUL Paramete PERE PERM PERM PENRT PENRT SM RSF FW Caption RESUL Paramete HWD	GWP = Eutroph TS OF er Unit MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ	t RE = { RE = { RE = { renev ble pr ndary	Al warmin n potenti A1-A3 1.87E 0.00E 1.02E 0.00E 1.02E 0.00E 2.29E Jse of re imary er wable pr imary er wable pr imary er ateria A1-A3	reg poter ial; POC -01 +00 +00 +00 +00 +00 -01 +00 -04 mary e imary e imary e imary e -01 segy re imary e -01 -01 -01 -01 -01 -01 -01 -01 -01 -01	tital; ODP P = Form fos SOUR A4 1,12E-0 0,00E+0 1,12E-0 2,05E-0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 2,05E-	= Deple ation po sil resources 3 0. 0 0. 2 0. 0 0. 2 0. 0 0. 2 0. 0 0. 0	tion pote tential of urces; AD DE+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 00E+00 VS AN A5 00E+00	htial of th troposph IPF = Ab B1 0,000 0,001 0,000 0,001 0,000000	e stratos leric ozor lotic dep S fate E+00 E+00 E+00 E+00 E+00 E+00 E+00 E+0	Phenic ozyne photoc letion potoc letion potoc letion potoc letion potoc 0,00E+(one laye hemical antial for 00 2 00 0 00 2 00 0 00 2 00 3 00 0 00 2	r; AP = Ac oxidants; fossil resc c2 2, 10E-04 0,0E+00 2, 10E-04 0,61E-03 0,0E+0000000000	idificatic ADPE = purces C3 0,00 0,00 0,00 0,00 0,00 0,00 0,00 0	Abiotic Abioti	tial of lan depletion C4 8,31E 0,00E 8,31E 0,00E 6,44E 0,00E 0,00E 1,62E erials; PF sources; PENRM PENRM PENRM PENRM PENRM C4 1,10E	d and poter -04 -00 -04 -03 +00 -03 +00 -06 -06 ERM = Use Uurces = Use	D 0,00E+0
ADPF Caption RESUL Paramete PERE PERM PERT PENRE PENRE PENRE SM RSF FW Caption RESUL Paramete HWD NHWD	GWP = Eutroph TS OF er Unit MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ MJ	RE = 1	Al warmin n potenti A1-A3 1,87E 0,00E 1,02E 0,00E 1,02E 0,00	-01 +00 +00 +00 +00 +00 +00 +00 +00 +00 -04 margy re timary en anergy re timary en al; RSF	tital; ODP P = Form fos SOUR A4 1,12E-0 0,00E+0 1,12E-0 2,05E-0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 0,00E+0 2,05E-0 0,00E+0 0,00E+0 2,05E-0 0,00E+0 2,05E-0 0,00E+0 2,05E-0 1,12E-0 2,05E-0 0,00E+0 2,05E-0 1,12E-0 2,05E-0 0,00E+0 1,12E-0 2,05E-0 1,00E+0 0,00E+0 2,05E-0 1,00E+0 1,00E+0 2,05E-0 1,00E+	= Deple ation po ssil resou 3 0.4 0 0.4 2 0.4 0 0.4 2 0.4 0 0.4 2 0.4 0	tion pote tential of urces; AD as below and as below and as tential of urces; AD as below and below and tential of tential of tentia	ntial of th troposph IPF = Ab B1 0,000 0,001 0,000 0,001 0,000 0,001 0,000000	e stratos leric ozor lotic dep S fate E+00 E+00 E+00 E+00 E+00 E+00 E+00 E+0	pheric oz, he photoc letion pote C1 0,00E+(one laye hemical antial for 00 2 00 0 00 2 00 0 00 3 00 0 00 3 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 2 00 2 00 2 00 2 00 2 00 2	r; AP = Ac oxidants; fossil resc c2 2.10E-04 00E+00 2.10E-04 0.61E-03 0.00E+000 0.00E+0000000000	idificatic ADPE = purces C3 0,00 0,00 0,00 0,00 0,00 0,00 0,00 0	Abiotic Abioti	tial of lan depletion C4 8,31E 0,00E 8,31E 0,00E 6,44E 0,000	d and poter -04 +00 -04 -03 +00 +00 +00 -06 ERM i PEN PEN = Use -05 -05 -05 -05 -05 -05 -05 -05 -05 -05	D 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ 0,00E+ D 0,00E+ D 0,00E+ D
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ROCKWOOL Cavityrock®: Stone Wool Insulation, Exterior Products (unfaced) by **ROCKWOOL Inc.**

created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 27799

CLASSIFICATION: 07 21 13 Board Insulation

PRODUCT DESCRIPTION: ROCKWOOL Cavityrock® is a semi-rigid stone wool insulation board designed for exterior cavity and rainscreen applications available in mono-density up to 2" and dual-density in thicknesses of 2.5" to 6". Cavityrock offers superior long-term thermal efficiency, fire resistance, moisture control, acoustic performance and are compatible with numerous framing systems and cladding attachment systems. Rockwool™ is part of Rockwool International A/S, also known as Rockwool Group.

🟮 Section 1: Summary

CONTENT INVENTORY

Inventory Reporting Format C Nested Materials Method C Basic Method

Threshold Disclosed Per

O Material

O Product

Threshold Level © 100 ppm © 1,000 ppm © Per GHS SDS © Other

Residuals/Impurities

Considered
 Partially Considered
 Not Considered

Explanation(s) provided for Residuals/Impurities? • Yes • No

Basic Method / Product Threshold

 All Substances Above the Threshold Indicated Are:

 Characterized
 C Yes Ex/SC © Yes C No

 % weight and role provided for all substances.

 Screened
 C Yes Ex/SC © Yes C No

 All substances screened using Priority Hazard Lists with results disclosed.

 Identified
 C Yes Ex/SC C Yes C No

 One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE

ROCKWOOL CAVITYROCK®: STONE WOOL INSULATION, EXTERIOR PRODUCTS (UNFACED) [STONE WOOL, BIOSOLUBLE LT-UNK SYRUPS, HYDROLYZED STARCH NoGS PHENOL, POLYMER WITH FORMALDEHYDE LT-P1 | RES UREA LT-UNK UNDISCLOSED LT-1]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen

Benchmark or List translator Score ... LT-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This product is not considered identified due to the proprietary nature of some chemicals within the product's formulation.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional

listings.

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) -Classroom & Office scenario LCA: Environmental Product Declaration

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

O Yes

No

PREPARER: Self-Prepared VERIFIER: VERIFICATION #: SCREENING DATE: 2021-03-05 PUBLISHED DATE: 2022-03-14 EXPIRY DATE: 2024-03-05 This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

ROCKWOOL CAVITYROCK®: STON (UNFACED)	E WOOL INSULATION, EXTERIOR PROI	DUCTS					
PRODUCT THRESHOLD: 100 ppm			RESIDU Yes	JALS AND IMPUR	RITIES CONSIDERED:		
RESIDUALS AND IMPURITIES NOTE	S: Residuals and impurities were conside	ered following	standard ind	lustry methods.			
applied on the stone wool fibers to a	aration is based on pre-cured breakdowr dhere them together. The liquid binder tu PD might not be applicable as the physic	rns into solid	after chemica	als react during th	e curing process.		
STONE WOOL, BIOSOLUBLE					ID: 65997-17-3		
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SO	CREENING DA	ATE: 2021-03-05	13:23:07		
%: 95.0000 - 100.0000	GS: LT-UNK	RC: PreC	NANO: No	SUBSTANCE ROL	E: Structure component		
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS				
None found			No wai	rnings found on H	IPD Priority Hazard Lists		
Annex VI Note Q conditions (ston	products produced by ROCKWOOL are e wool can also be referenced by the EC ent comes primarily from recycled slag. stance is disclosed as a range to account	Number: 926	-099-9).				
SYRUPS, HYDROLYZED STARCH					ID: 8029-43-4		
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SO	CREENING DA	ATE: 2021-03-05	13:23:07		
%: 1.0000 - 2.0000	GS: NoGS	RC: None	NANO: N	lo SUBSTAI	NCE ROLE: Binder		
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS				
None found			No wai	rnings found on H	IPD Priority Hazard Lists		
SUBSTANCE NOTES: Forms part of the binder which adheres the fibres in the final product. The percent by weight of the substance is disclosed as a range to account for variances across the products covered by this HPD.							
The percent by weight of the sub-	stance is disclosed as a range to account	for variances	s across the p	products covered	by this HPD.		
The percent by weight of the sub-		for variances	s across the p	products covered	by this HPD. ID: 9003-35-4		
PHENOL, POLYMER WITH FORM					ID: 9003-35-4		

HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	NGS		
RES	AOEC - Asthmagens	Asthma	gen (Rs) - sens	sitizer-induced	
SUBSTANCE NOTES: Forms par	art of the binder which adheres the fibres in	the final product.			
The percent by weight of the sul	bstance is disclosed as a range to account	t for variances acr	oss the produ	cts covered by this HP	D.
UREA					ID: 57-13-6
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREE	ENING DATE:	2021-03-05 13:23:08	
%: 0.0000 - 1.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE	Binder
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	NGS		
None found			No warning	s found on HPD Priority	y Hazard Lists
SUBSTANCE NOTES: Forms pa	art of the binder which adheres the fibres in	the final product.			
The percent by weight of the sul	bstance is disclosed as a range to account	t for variances acr	ross the produ	icts covered by this HP	D.
UNDISCLOSED				II	D: Undisclosed
HAZARD SCREENING METHOD:	Toxnot Chemical Hazard Screening Libr	rary HAZARD SC	CREENING DA	TE: 2021-01-20 15:24	:33
%: 0.0000 - 1.0000	GS: LT-1	RC: None	NANO: No	SUBSTANCE ROLE	E: Dedusting
HAZARD TYPE	AGENCY AND LIST TITLES	WARNIN	NGS		
None found			No warning	s found on HPD Priority	y Hazard Lists
SUBSTANCE NOTES: A de-dust	ter oil used to control and reduce dust. The	e de-duster oil is c	considered pro	prietary by the manufa	acturer.

The percent by weight of the substance is disclosed as a range to account for variances across the products covered by this HPD.

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS	CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario					
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: Grand Forks, British Columbia, Canada; Milton, Ontario, Canada; and Marshall County,	ISSUE DATE: 2020- 09-17	EXPIRY DATE:	CERTIFIER OR LAB: UL Environment			
Mississippi, USA						
CERTIFICATE URL:						
https://www.rockwool.com/about/sustainability/certifications-						

and-listings/#voc

CERTIFICATION AND COMPLIANCE NOTES: Although Cavityrock® (<2", 2") and Cavityrock® (2.5", >2.5") are intended for use in exterior insulation applications, Rockwool is aware that project teams occasionally use the products for interior insulation applications. As such, testing conducted by UL Environment demonstrates the products compliance with CDPH Standard Method V1.2 (Section 01350/CHPS) under the classroom environment scenario.

LCA	Environmental Product Declaration					
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Grand Forks, British Columbia, Canada; Milton, Ontario, Canada; and Marshall County, Mississippi, USA CERTIFICATE URL:	ISSUE DATE: 2019-07- 17	EXPIRY DATE: 2024- 06-17	CERTIFIER OR LAB: UL Environment			
https://www.rockwool.com/siteassets/o2- rockwool/documentation/epd/rockwool-stone-wool- environmental-product-declaration-epd.pdf#						
CERTIFICATION AND COMPLIANCE NOTES: The environm	ental impact reference pro	oduct was SAFE'n'SOUN	D®. To calculate product-specific			

CERTIFICATION AND COMPLIANCE NOTES: The environmental impact reference product was SAFE'n'SOUND®. To calculate product-specific environmental impacts of the products covered by this HPD, apply the relevant scaling factor found on page 3 of the EPD (as well as the environmental impact factor for faced materials, if applicable, which can be found in the Annex of the EPD).

😑 Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

This HPD covers the following products: Cavityrock(<2", 2") and Cavityrock(2.5", >2.5"). These products have the same compositional chemistry, except at different percent by weights. This variance is limited to 10% or less of the total mass of each product.

MANUFACTURER INFORMATION

MANUFACTURER: ROCKWOOL Inc. ADDRESS: 8024 Esquesing Line Milton Ontario L9T 6W3, Canada WEBSITE: rockwool.com CONTACT NAME: Alejandra Nieto TITLE: Technical Manager - Sustainability & Research PHONE: 1-800-265-6878 EMAIL: alejandra.nieto@rockwool.com

LT-1 List Translator 1 (Likely Benchmark-1)

to a LT-1 or LTP1 score.)

NoGS No GreenScreen.

LT-UNK List Translator Benchmark Unknown (the chemical is

information contained within the list did not result in a clear mapping

present on at least one GreenScreen Specified List, but the

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity CAN Cancer DEV Developmental toxicity END Endocrine activity EYE Eye irritation/corrosivity GEN Gene mutation GLO Global warming LAN Land toxicity MAM Mammalian/systemic/organ toxicity MUL Multiple NEU Neurotoxicity NF Not found on Priority Hazard Lists OZO Ozone depletion PBT Persistent, bioaccumulative, and toxic PHY Physical hazard (flammable or reactive) REP Reproductive RES Respiratory sensitization SKI Skin sensitization/irritation/corrosivity UNK Unknown

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement)
BM-2 Benchmark 2 (use but search for safer substitutes)
BM-1 Benchmark 1 (avoid - chemical of high concern)
BM-U Benchmark Unspecified (due to insufficient data)
LT-P1 List Translator Possible 1 (Possible Benchmark-1)

Recycled Types

PreC Pre-consumer recycled content PostC Post-consumer recycled content UNK Inclusion of recycled content is unknown None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material Nested Method / Product Threshold Substances listed within each material per threshold indicated per product Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology Third Party Verified Verification by independent certifier approved by HPDC Preparer Third party preparer, if not self-prepared by manufacturer Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

• a method for the assessment of exposure or risk associated with product handling or use,

• a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.