



ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025:2006 and
EN 15804:2012+A2:2019/AC:2021 for:

Aerolite® 50 mm
(Thickness 50 mm, 100 mm, and 135 mm)

Version 2

Date of publication: 2025/02/18

Validity: 5 years

Revision Date: 2025/05/27

Valid until: 2030/05/26

Scope of the EPD®: Sub-Saharan Africa
EPD of multiple products based on a reference product



THE INTERNATIONAL EPD® SYSTEM

The International EPD® System

Program operator: EPD international AB

Registration number: EPD-IES-0005263



An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com

Programme information

PROGRAMME: The International EPD® System
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CEN standard EN 15804:2012 + A2:2019/AC:2021 serves as the Core Product Category Rules (PCR)

Product category rules (PCR): PCR 2019:14 Construction Products, version 1.3.2

Complementary PCR: (c-PCR-005), 2019-12-20. Thermal insulation products (EN 16783:2017)

PCR review was conducted by: The Technical Committee of the International EPD System. See www.environdec.com for a list of members.

President: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact - Contact via info@environdec.com

LCA accountability: Estie van Zyl

Independent third-party verification of the declaration and data, according to ISO 14025:2006:

EPD verification by individual verifier

Third party verifier: Andrew Norton (Renueables Ltd)
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Approved by: The International EPD© System

Procedure for follow-up of data during EPD validity involves third part verifier: Yes No

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025

Product information

Company information

Manufacturer: Saint-Gobain Isover SA

Production plant: Springs, South Africa

Management system-related certification: ISO14001

Programme used: EN 15804:2012+A2:2019/AC:2021 Sustainability of construction works – Environmental product declaration - core rules for the product category of construction product and The International EPD® System

PCR identification PCR 2019:14 version 1.3.2 for Construction products

Prepared by: IVL Swedish Environmental Research Institute, EPD International Secretariat

Owner of the declaration: Estie van Zyl

UN CPC CODE: 37990 Non-metallic mineral products n.e.c. (including mineral wool, expanded mineral materials, worked mica, articles of mica, non-electrical articles of graphite or other carbon and articles of peat)

Product name and manufacturer represented: Aerolite®, Isover SA

EPD® prepared by: estie.vanzyl@saint-gobain.com

The intended use of this EPD is for B2B communication.

Geographical scope of the EPD®: Sub-Saharan Africa

EPD® registration number: EPD-IES-0005263

Declaration issued: 2025/02/18, **Revision date:** 2025/05/27, **Valid until:** 2030/05/26

Demonstration of verification: An independent verification of the declaration was made, according to ISO 14025:2010. This verification was external and conducted by the following third party based on the PCR mentioned above.

Product description

Product description and description of use

This Environmental Product Declaration (EPD®) describes the environmental impacts of 1 m² of mineral wool with a thermal resistance of 1.14 K.m².W⁻¹ of Aerolite® and thickness of 50 mm. To calculate the range of commercial thicknesses between 50 mm and 135 mm, please see table in additional information chapter "influence of particular thickness".

This EPD applies to multiple products, based on a representative product.

The production site of Saint-Gobain Isover SA in Springs uses natural raw materials (sand), recycled glass cullet, and fusion and fiberizing techniques to produce glass wool. The products are obtained in the form of a "mineral wool mat" characterized with a soft and airy structure.

With its entangled structure, glass wool is a porous material that traps the air, making it one of the best insulating materials. The porous and elastic structure of the wool also absorbs noise in the air, knocks and offers acoustic correction inside premises. Mineral wool containing non-combustible materials does not fuel fire or propagate flames.

Aerolite® Soft Touch is a high performance Glasswool thermal and acoustic ceiling insulation that is bonded with an inert, thermosetting resin. The strong, resilient, flexible blankets are supplied in compression packed rolls and are easy to cut and install. Aerolite® Soft Touch is installed in residential and non-residential ceilings.

Technical data/physical characteristics:

PARAMETER	VALUE / DESCRIPTION
Thermal resistance	1.14 K.m ² .W ⁻¹ (UNE EN 12667)
Thermal conductivity	0.044 W/(m.K) (UNE EN 12667)
Density	10 kg/m ³

Declaration of the main product components and/or materials

Description of the main components and/or materials:

Product components	Weight (%)	Post-consumer material weight (%)	Biogenic material weight- kg C/product
Wool	95.5%	0%	0 kg
Binder	4.5%	0%	0 kg
Facing	0%	0%	0 kg
Sum	100%		
Packaging materials	Weight (kg/m ²)	Weight-% (vs the product)	Biogenic material, weight- kg C/product
LDPE Film	0.0198	4%	0 kg
Paper label	0.0002	0.04%	1.22E-04 kg

At the date of issue of this declaration, there is no "Substance of Very High Concern" (SVHC) in concentration above 0.1% by weight, and neither do their packaging, following the European REACH regulation (Registration, Evaluation, Authorization and Restriction of Chemicals). The verifier and the program operator do not make any claim nor have any responsibility of the legality of the product.

LCA calculation information

TYPE OF EPD	Cradle to grave and module D
FUNCTIONAL UNIT	Providing a thermal insulation on 1 m ² of product with a thermal resistance of 1.14 K.m ² .W-1 and a thickness of 50 mm during 50 years
SYSTEM BOUNDARIES	Cradle to grave (A1, A2, A3, A4, A5, B1–B7, C1–C4) and module D
REFERENCE SERVICE LIFE (RSL)	The Reference Service Life (RSL) of the insulation product is 50 years. This 50-year value is the amount of time that we recommend our products last for without refurbishment and corresponds to standard building design life.
CUT-OFF RULES	<p>In the case that there is not enough information, the process energy and materials representing less than 1% of the whole energy and mass used can be excluded (if they do not cause significant impacts). The addition of all the inputs and outputs excluded cannot be bigger than the 5% of the whole mass and energy used, as well of the emissions to environment occurred.</p> <p>Flows related to human activities such as employee transport are excluded.</p> <p>The construction of plants, production of machines and transportation systems are excluded since the related flows are supposed to be negligible compared to the production of the building product when compared at these systems lifetime level.</p>
ALLOCATIONS	<p>Allocation has been avoided when possible and when not possible a mass allocation has been applied.</p> <p>The polluter pays and the modularity principles as well have been followed.</p>
GEOGRAPHICAL COVERAGE AND TIME PERIOD	<p>Scope: Sub-Saharan Africa</p> <p>Data is collected from one production site Saint-Gobain Isover Springs located in South Africa</p> <p>Data collected for the year 2023</p>
BACKGROUND DATA SOURCE	The databases Sphera 2023.2 and ecoinvent v.3.9.1
SOFTWARE	Sphera LCA for experts (GaBi) 10

LCA scope

System boundaries (X=included. MND=module not declared)

	PRODUCT STAGE			CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY
	Raw material supply	Transport	Manufacturing	Transport	Construction-Installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-recovery
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geography	Glo	Gl o	ZA	ZA	ZA	ZA	ZA	ZA	ZA	ZA	ZA	ZA	ZA	ZA	ZA	ZA	ZA
Specific data used	87% GWP- GHG																
Variation products	119-196% ¹																
Variation sites	0%																

Life cycle stages



¹ The product variation is based on the variation for the different thicknesses described in the "Additional Information" section.

A1-A3, Product stage

The product stage of the mineral wool products is subdivided into 3 modules A1, A2 and A3 respectively “raw material supply”, “transport” and “manufacturing”.

A1, Raw materials supply

This module includes the extraction and transformation of raw materials.

A2, Transport to the manufacturer

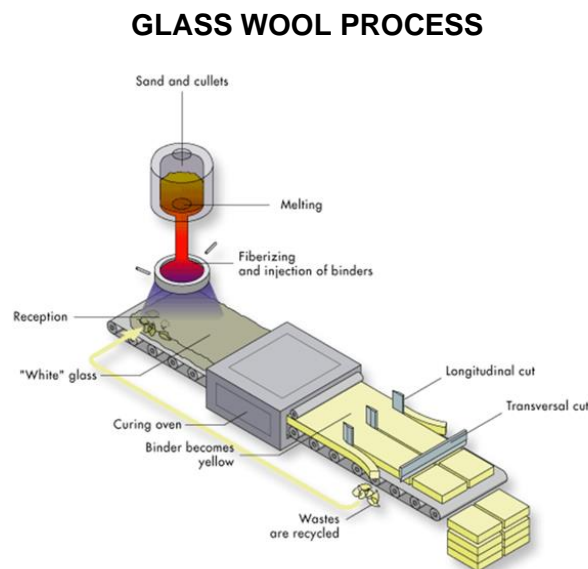
This module includes the transportation of raw materials and packaging to the manufacturing site. The modelling includes road and ship transportations.

A3, Manufacturing

This module includes the manufacture of products such as (fusion, fiberizing, etc.) and the manufacture of packaging. The production of packaging material is considered at this stage. The processing of any waste arising from this stage is also included.

Manufacturing process flow diagram

System diagram:



Manufacturing in detail:

Mineral wool is made from high-temperature molten glass that is blown away using centrifugal force to form fine cotton-like fibers.

Then, a binder is sprayed on the material to form it, and the product is heated in an oven.

A4-A5, Construction process stage

The construction process is divided into 2 modules: A4, Transport to the building site and A5, Installation in the building.

A4, Transport to the building site: This module includes transport from the production gate to the building site. Transport is calculated based on a scenario with the parameters described in the following table.

PARAMETER	VALUE
Fuel type and consumption of vehicle or vehicle type used for transport e.g. long distance truck, boat, etc.	Freight truck, maximum load weight of 34 t and consumption of 0.38 liters per km
Distance	223 km
Capacity utilisation (including empty returns)	100% of the capacity in volume 13% of the capacity in weight 30% of empty returns
Bulk density of transported products	10 kg/m ³
Volume capacity utilisation factor	1

A5, Installation in the building: this module includes the installation of the product manually and no additional accessories, nor energy are considered

PARAMETER	VALUE/DESCRIPTION
Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)	2%
Distance	50 km to landfill by truck
Output materials (specified by type) as results of waste processing at the building site e.g., of collection for recycling, for energy recovering, disposal (specified by route)	Product losses: 0.5 kg/m ² LDPE film: 0.0198 kg/m ²

B1-B7, Use stage (excluding potential savings)

The use stage is divided into the following modules:

- **B1:** Use
- **B2:** Maintenance
- **B3:** Repair
- **B4:** Replacement
- **B5:** Refurbishment
- **B6:** Operational energy use
- **B7:** Operational water use

The product has a reference service life of 50 years. This assumes that the product will last in situ with no requirements for maintenance, repair, replacement, or refurbishment throughout this period. Therefore, it has no impact at this stage.

C1-C4, End of Life Stage

This stage includes the following modules:

- **C1:** The de-construction and/or dismantling of the product takes part of the demolition of the entire building. In our case, the energy is considered is 0.05 MJ/kg.
- **C2:** Transport to waste processing
- **C3:** Waste processing for reuse, recovery and/or recycling
- **C4:** Waste disposal, including physical pre-treatment and site management.

Description of the scenarios and additional technical information for the end of life:

PARAMETER	VALUE/DESCRIPTION
Collection process specified by type	The entire product, including any facing is collected with mixed construction waste. 0.5 kg of the product
Recovery system specified by type	There is no recovery, recycling or reuse of the product once it has reached its end of life phase.
Disposal specified by type	0.5 kg of the product are landfilled
Assumptions for scenario development (e.g. transportation)	The waste going to landfill is transported 50 km by truck from deconstruction/demolition sites to landfill

D, Reuse/recovery/recycling potential

There is no inclusion of secondary materials in the product and packaging.

100% of wastes are landfilled. There is no reuse, nor recycling, nor incineration with energy recovery for the product nor its packaging.

Considering all the above, no benefits or loads are reported on stage D.

LCA results

As specified in EN 15804:2012+A2:2019/AC:2021 and the Product-Category Rules, the environmental impacts are declared and reported using the baseline characterization factors are from the ILCD. Raw materials and energy consumption, as well as transport distances have been taken directly from the manufacturing plant. Characterisation factors EN15804 based on EF 3.1.

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.








All emissions to air, water, and soil, and all materials and energy used have been included.

The results of the impact categories abiotic depletion of minerals and metals, land use, human toxicity (cancer), human toxicity, noncancer and ecotoxicity (freshwater) may be highly uncertain in LCAs that include capital goods/infrastructure in generic datasets, in case infrastructure/capital goods contribute greatly to the total results. This is because the LCI data of infrastructure/capital goods used to quantify these indicators in currently available generic datasets sometimes lack temporal, technological and geographical representativeness. Caution should be exercised when using the results of these indicators for decision-making purposes.

This EPD includes module C, we strongly advise against using the results of modules A1-A3 without considering the results of module C.











Results refer to a functional unit of 1 m² of mineral wool with thermal resistance of 1.14 m².K.W⁻¹ for a thickness of 50 mm. To obtain results with different commercial thicknesses see additional information section.

Environmental Impacts

Environmental indicators		PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE LIFE CYCLE
		A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
	Climate Change [kg CO2 eq.]	2.26E+00	2.93E-02	4.84E-02	0	0	0	0	0	0	0	2.23E-03	1.82E-03	0	1.01E-02	0
	Climate Change (fossil) [kg CO2 eq.]	2.19E+00	2.89E-02	4.66E-02	0	0	0	0	0	0	0	2.23E-03	1.80E-03	0	7.40E-03	0
	Climate Change (biogenic) [kg CO2 eq.]	6.89E-02	7.62E-05	1.78E-03	0	0	0	0	0	0	0	2.82E-07	4.81E-06	0	2.63E-03	0
	Climate Change (land use change) [kg CO2 eq.]	1.87E-03	2.70E-04	3.90E-05	0	0	0	0	0	0	0	2.51E-07	1.66E-05	0	2.33E-05	0
	Ozone depletion [kg CFC-11 eq.]	1.25E-07	2.56E-15	2.51E-09	0	0	0	0	0	0	0	3.55E-11	2.33E-16	0	1.91E-14	0
	Acidification terrestrial and freshwater [Mole of H+ eq.]	2.29E-02	3.96E-05	4.60E-04	0	0	0	0	0	0	0	2.07E-05	2.28E-06	0	5.33E-05	0
	Eutrophication freshwater [kg P eq.]	1.17E-03	1.06E-07	2.33E-05	0	0	0	0	0	0	0	6.85E-08	6.54E-09	0	1.51E-08	0
	Eutrophication marine [kg N eq.]	3.31E-03	1.47E-05	7.67E-05	0	0	0	0	0	0	0	9.60E-06	7.98E-07	0	1.38E-05	0
	Eutrophication terrestrial [Mole of N eq.]	3.50E-02	1.71E-04	7.10E-04	0	0	0	0	0	0	0	1.04E-04	9.33E-06	0	1.51E-04	0
	Photochemical ozone formation - human health [kg NMVOC eq.]	9.43E-03	3.52E-05	1.93E-04	0	0	0	0	0	0	0	3.09E-05	2.00E-06	0	4.15E-05	0
	Resource use, mineral and metals [kg Sb eq.] ²	2.07E-05	1.90E-09	4.15E-07	0	0	0	0	0	0	0	7.79E-10	1.19E-10	0	3.47E-10	0
	Resource use, energy carriers [MJ] ¹	4.15E+01	3.97E-01	8.40E-01	0	0	0	0	0	0	0	2.91E-02	2.44E-02	0	1.00E-01	0
	Water deprivation potential [m ³ world equiv.] ¹	4.76E-01	3.37E-04	9.77E-03	0	0	0	0	0	0	0	9.86E-05	2.16E-05	0	8.25E-04	0









² The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

Resources Use


Resources Use indicators	PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE			BENEFITS AND LOADS BEYOND THE LIFE CYCLE	
	A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
 Use of renewable primary energy (PERE) [MJ] ³	7.06E-01	2.81E-02	1.47E-02	0	0	0	0	0	0	0	1.67E-04	1.77E-03	0	1.63E-02	0
 Primary energy resources used as raw materials (PERM) [MJ] ²	4.68E-03	0	9.36E-05	0	0	0	0	0	0	0	0	0	0	0	0
 Total use of renewable primary energy resources (PERT) [MJ] ²	7.11E-01	2.81E-02	1.47E-02	0	0	0	0	0	0	0	1.67E-04	1.77E-03	0	1.63E-02	0
 Use of non-renewable primary energy (PENRE) [MJ] ²	3.95E+01	3.98E-01	8.00E-01	0	0	0	0	0	0	0	2.91E-02	2.45E-02	0	1.00E-01	0
 Non-renewable primary energy resources used as raw materials (PENRM) [MJ] ²	1.99E+00	0	3.99E-02	0	0	0	0	0	0	0	0	0	0	0	0
 Total use of non-renewable primary energy resources (PENRT) [MJ] ²	4.15E+01	3.98E-01	8.40E-01	0	0	0	0	0	0	0	2.91E-02	2.45E-02	0	1.00E-01	0
 Input of secondary material (SM) [kg]	5.03E-01	0	1.01E-02	0	0	0	0	0	0	0	0	0	0	0	0
 Use of renewable secondary fuels (RSF) [MJ]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
 Use of non-renewable secondary fuels (NRSF) [MJ]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
 Use of net fresh water (FW) [m3]	1.13E-02	3.10E-05	2.32E-04	0	0	0	0	0	0	0	2.30E-06	1.94E-06	0	2.53E-05	0

³ From EPD International Construction Product PCR 1.3.2 (Annex 3). The option B was retained to calculate the primary energy use indicators.



Waste Category & Output flows

Waste Category & Output Flows	PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE LIFE CYCLE
	A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
 Hazardous waste disposed (HWD) [kg]	3.96E-02	1.47E-12	7.91E-04	0	0	0	0	0	0	0	1.97E-07	7.57E-14	0	2.18E-12	0
 Non-hazardous waste disposed (NHWD) [kg]	8.79E-01	5.74E-05	5.07E-02	0	0	0	0	0	0	0	1.80E-04	3.73E-06	0	5.00E-01	0
 Radioactive waste disposed (RWD) [kg]	3.71E-05	5.15E-07	7.71E-07	0	0	0	0	0	0	0	3.20E-09	4.58E-08	0	1.14E-06	0
 Components for re-use (CRU) [kg]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
 Materials for Recycling (MFR) [kg]	4.57E-03	0	9.13E-05	0	0	0	0	0	0	0	0	0	0	0	0
 Material for Energy Recovery (MER) [kg]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
 Exported electrical energy (EEE) [MJ]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
 Exported thermal energy (EET) [MJ]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Additional voluntary indicators from EN 15804

Environmental indicators	PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE LIFE CYCLE
	A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
 GWP-GHG [kg CO2 eq.] ⁴	2.27E+00	2.93E-02	4.82E-02	0	0	0	0	0	0	0	2.23E-03	1.82E-03	0	7.47E-03	0

Information on biogenic carbon content

Biogenic Carbon Content		PRODUCT STAGE
		A1 / A2 / A3
	Biogenic carbon content in product [kg]	0
	Biogenic carbon content in packaging [kg]	1.22E-04

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

The product does not contain biogenic carbon content. Regarding packaging, biogenic carbon is quantified due to the paper label.

⁴ This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

Additional information:

Influence of thicknesses

This EPD[®] includes the range of products with different thicknesses between 50 mm and 135 mm. A multiplication factor can be applied to obtain the environmental performance of every thickness. All the results of this EPD[®] refer to the reference thickness of 50 mm with a value of $R=1.14 \text{ m}^2\cdot\text{K}/\text{W}$.

To obtain the environmental performance associated with every specific thickness, the results expressed in this EPD[®] must be multiplied by its corresponding multiplication factor. The calculation of the conversion factor is based on the GWP-GHG indicator for A1-A3.

PRODUCT THICKNESS (MM)	THERMAL RESISTANCE (m ² k/W)	CONVERSION FACTOR	GWP-GHG (kg CO ₂ / m ²) for A1-A3 stage
50	1.14	1	2.26E+00
100	2.50	2.19	4.96E+00
135	3.38	2.96	6.69E+00

Electricity information

TYPE OF INFORMATION	DESCRIPTION
Location	Representative of electricity purchased by Saint-Gobain Isover SA
Geographical representativeness description	Share of energy sources Coal: 85.7% Oil: 0.1% Biofuels: 0.1% Nuclear: 5.1% Hydro: 2.8% Solar PV: 2% Solar thermal: 0.7% Wind: 3.4%
Reference year	2021
Type of dataset	Cradle to gate from Gabi and ecoinvent databases
Source	Ecoinvent database and IEA World Energy Statistics
CO₂ emission kg CO₂ eq. / kWh	1.15 kg of CO ₂ eq/kWh Based on Climate Change - fossil indicator

Data quality

Inventory data quality is judged by geographical, temporal, and technological representativeness. To cover these requirements and to ensure reliable results, first-hand industry data crossed with LCA background datasets were used. The data was collected from internal records and reporting documents from Insulation South Africa. After evaluating the inventory, according to the defined ranking in the LCA report, the assessment reflects good inventory data quality.

Environmental impacts according to EN 15804:2012 + A1

The following tables presents results for 1 m² of mineral wool with thermal resistance of 1.14 m².K.W⁻¹ for a thickness of 50 mm.

Environmental impacts	PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				REUSE, RECOVERY, RECYCLING
	A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
Global Warming Potential (GWP) [kg CO ₂ eq.]	2.19E+00	2.89E-02	4.66E-02	0	0	0	0	0	0	0	2.23E-03	1.80E-03	0	7.40E-03	0
Ozone depletion (ODP) [kg CFC 11eq.]	6.89E-02	7.62E-05	1.78E-03	0	0	0	0	0	0	0	2.82E-07	4.81E-06	0	2.63E-03	0
Acidification potential (AP) [kg SO ₂ eq.]	1.87E-03	2.70E-04	3.90E-05	0	0	0	0	0	0	0	2.51E-07	1.66E-05	0	2.33E-05	0
Eutrophication potential (EP) [kg (PO ₄) ₃ -eq.]	1.25E-07	2.56E-15	2.51E-09	0	0	0	0	0	0	0	3.55E-11	2.33E-16	0	1.91E-14	0
Photochemical ozone creation (POCP) - [kg Ethylene eq.]	2.29E-02	3.96E-05	4.60E-04	0	0	0	0	0	0	0	2.07E-05	2.28E-06	0	5.33E-05	0
Abiotic depletion potential for non-fossil resources (ADP-elements) [kg Sb eq.]	1.17E-03	1.06E-07	2.33E-05	0	0	0	0	0	0	0	6.85E-08	6.54E-09	0	1.51E-08	0
Abiotic depletion potential for fossil resources (ADP-fossil fuels) [MJ]	3.31E-03	1.47E-05	7.67E-05	0	0	0	0	0	0	0	9.60E-06	7.98E-07	0	1.38E-05	0

Differences versus previous versions

The LCA Software was changed from TEAM to Gabi. The version of the LCA database was updated. The plant data collection is updated to most recent data. Revised to correct calculation concerning energy usage.

References

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3. EN 16783:2017 Thermal insulation products - Product category rules (PCR) for factory made and in-situ formed products for preparing environmental product declarations
4. EPD International. General Program Instructions (GPI) for the International EPD® System (version 4.0) www.environdec.com.
5. The International EPD System PCR 2019:14 Construction products and Construction services. Version 1.3.2
6. European Chemical Agency, Candidate List of substances of very high concern for Authorization. <https://echa.europa.eu/candidate-list-table>
7. 2024.1 [Insulation] LCA report template (PCR 1.3.2 EPD Int. System) - Aerolite