ENVIRONMENTAL PRODUCT DECLARATION

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

weber SAD-54
weber.prim 811

Version: 1
Publication date: 2024/08/18
Valid until: 2029/08/17
Scope of the EPD®: Lithuania
Manufacture: Saint-Gobain Statybos Gaminiai, UAB
Programme: The International EPD® System (www.environdec.com)
Programme Operator: EPD International AB
EPD of multiple products based on representative-case.

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

EPD Registration number
EPD-IES-0014298

General information

Product name: weber SAD-54 & weber.prim 811
UN CPC code: 35110 Paints and varnishes and related products
GTIN(s): 771598350322 1 l; 4771598350315 5 l; 4771598350308 20 l

Declared Unit: 1 kg of weber SAD-54

Owner of the declaration: Saint-Gobain Statybos Gaminiai UAB
Manufacturer: Saint-Gobain Statybos Gaminiai UAB, Ménulio str. 7, LT-04326 Vilnius, Lithuania
e-mail: info.lt@saint-gobain.com **/ website:** https://www.lt.weber/
Production site: Neveronys plant, Lithuania
Contact person: Laima Biezumaite-Anceviciene (laima.biezumaite@saint-gobain.com)

Geographical scope of the EPD®: Lithuania
Year of data: 2023
EPD® prepared by: Quentin Lamache (Saint-Gobain Nordic & Baltic) and Laima Biezumaite-Anceviciene (Saint-Gobain Statybos Gaminiai UAB)
EPD® registration number: EPD-IES-0014298
Declaration issued: 2024/08/18, **valid until:** 2029/08/17

Management system - related certifications: ISO 9001(Certificate No.: LT006496), ISO 14001 (Certificate No.: LT006497)

Demonstration of verification: An independent verification of the declaration was made, according to EN ISO 14025:2006. This verification was external and conducted by a third party, based on the PCR mentioned below.

Programme information

Programme:	The International EPD® System
Address:	EPD International AB - Box 210 60 - SE-100 31 Stockholm - Sweden
Website:	www.environdec.com
E-mail:	info@environdec.com

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

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

Independent third-party verification of the declaration and data, according to ISO 14025:2006:
☐ EPD process certification ☒ EPD verification

Third party verifier: Marcel Goméz
Company name: Marcel Goméz Consultoría Ambiental **Tel**: +33 630 64 35 93 **E-mail:** info@marcelgomez.com
Approved by: The International EPD© System

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

EPD owner has the sole ownership, liability, and responsibility of the EPD. 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 description

weber SAD-54 is a ready-to-use primer for pre-treatment of absorbent substrates, primer with a dust-binding and water-repellent effect for the pre-treatment of absorbent substrates. Ideally dedicated prior to application of tile adhesives, patching mortars, renders and plasters etc.
Product website: https://www.lt.weber/plyteliu-klijavimo-sistemos/gruntavimo-medziagos/weber-sad-54 https://www.ee.weber/plaatimine-ja-veetokked/krundid/weberprim-811

The product is delivered in 1l, 5l and 20l tanks. The EPD result is based on the representative product weber SAD-54 in 20l packaging.

This EPD applies for several products: weber SAD-54, weber.prim 811.
The variation in results of these 2 products is less than 10% on all indicators.

Technical data / physical characteristics		
Installation information (kg/m²)	0,2	Primer no thickness
The amount of non-volatile substances	≥ 5,0 %	EN ISO 3251
Drying time	≤ 60 min	EN ISO 9117-3
Density	1,0 ± 10 % g/ml	EN ISO 2811-1

Declaration of the main product components and/or materials

Product components	Weight (%)	Post-consumer material (%)	Biogenic material (% and kg C / DU)
Standard product	100%		
Binder	0%	0%	0%
Filler / aggregates	0%	0%	0%
Additives	100%	0%	0%
Packaging	**Weight (kg)**	**Weight (%)** (versus the DU)	**Biogenic material weigh (kg C/ DU)**
Polyethylene	0,05 kg	5%	0 kg
Paper for label	0,0004 kg	0,04%	0,000176 kg C/ DU
Pallet	0,032 kg	3,2%	0,01312 kg C/ DU

Hazardous substances

During the life cycle of the product any hazardous substance listed in the “Candidate List of Substances of Very High Concern (SVHC) for authorization” has been used in a percentage higher than 0.1% of the weight of the product.
The product contains substances given by the REACH candidate list that are less than 0,01% by weight.

Substance	CAS.no	Amount (%) / DU
Sodium Pyrithione	3811-73-2	≤ 0,01 %
1,2-benzizotiazol-3(2H)-one, 1,2-benzizotiazolin-3-one	2634-33-5	≤ 0,015 %
2-metil-2H-izotiazol-3-one	2682-20-4	≤ 0,015 %

mix: 5-chlor-2-metil-2H-izotiazol-3-one [EB Nr. 247-500-7] and 2-metil-2H-izotiazol-3-one [EB Nr. 220-239-6] (3:1)	55965-84-9	< 0,0015 %

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 gate with options; module A+B+C+D
Declared unit	1 kg of weber SAD-54
System boundaries	Mandatory Stages = A1-A3; C1-C4 and D, Optional stages: A4 – A5 and B.
Reference service life (RSL)	50 years
Cut-off rules	All input and outputs for raw materials, additives and energy has been included. Life Cycle Inventory data for a minimum of 99% of total inflows to the upstream and core module shall be included. Flows related to human activities such as employee transport are excluded. Transportation in-site is excluded. The construction of plants, production of machines and transportation systems are excluded
Allocations	Whenever was possible, allocation was avoided. For those cases that was not possible, physical allocation based on mass is considered. The polluter pays and modularity principles have been followed.
Geographical coverage And time period	Scope: Lithuania Data is collected from 1 production site: Neveronys plant located in Lithuania. Data collected for the year: 2023
Background data source	The databases Gabi 2022 and ecoinvent v.3.8
Software	GaBi 10
Data quality assessment	The total score (geographical, temporal and technology) of the data quality is assess as good.

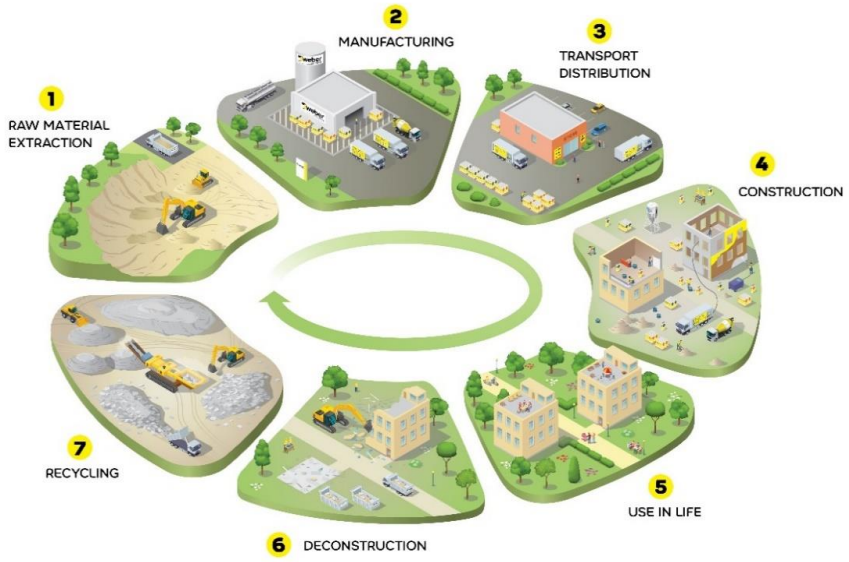
LCA scope

	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	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction	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	GLO	LT	Balt.	Balt.	Balt.	Balt.	Balt.	Balt.	Balt.	Balt.	Balt.	Balt.	Balt.	Balt.	Balt.	Balt.
Specific Data used[1]	> 90 % GWP- GHG															
Variation products	<10%															
Variation sites	0%															

Description of the system boundary, X = Included in LCA, MND = Module Not Declared

1 For this study, specific data is considered as raw materials, energy and water consumptions, wastes and emissions related to the manufacturing process.

Life cycle stages



Flow diagram of the Life Cycle

A1-A3, Product stage

The product stage of the Weber products is subdivided into 3 modules.
The aggregation of the modules A1, A2 and A3 is considered by the EN 15804 standard. This rule is applied in this EPD.

A1, Raw materials supply
This part takes into account the extraction and processing of all raw materials and energy which occurs upstream to the studied manufacturing process.
Specifically, the raw material supply covers sourcing (quarry) and production of all binder components and additives (e.g. sand, cement, rheology agent and others).

A2, Transport to the manufacturer
The raw materials are transported to the manufacturing site. In this case, the modelling includes road and boat transportations of each raw material, based on specific distances from supplier to the manufacturing site.

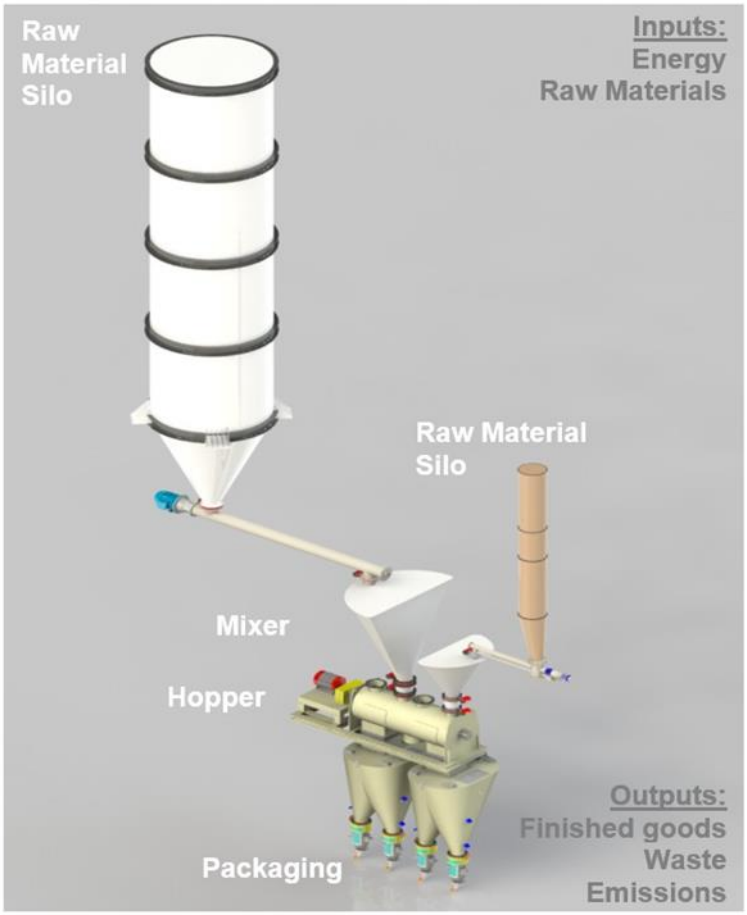
A3, Manufacturing
This module includes manufacturing of products and linked on-site activities such as grinding, drying, storing, mixing and packing, including:

- Energy use and the combustion of refinery products, such as diesel, related to the production process.
- Waste generated during the production, including also packaging waste
- Packaging-related flows in the production process and all up-stream packaging. Apart from production of packaging material, the supply and transport of packaging material are also considered and are reported and allocated to the module where the packaging is applied. Data on packaging waste created during this step are then generated.

It is assumed that packaging waste generated in production and up-stream processes is 100% collected and either recycled or incinerated with energy recovery.

During the manufacturing process, 100% renewable electricity / fossil free electricity bought with Guarantee of Origin (GO) has been used, with a CO2 emission of 0,0446 kg CO2 eq. / kWh. 100% of the electricity consumption is covered by the GO's. See description of the electricity in "Additional Information".

Manufacturing process flow diagram



A4-A5, Construction process stage

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

Parameter	Value / Description
Vehicle type, fuel type and consumption used for transport to building site	Freight truck trailer 24t payload, diesel consumption 38 l/100 km
Distance to building site	570 km
Capacity utilization (including empty returns)	100% of the capacity in mass 30% of empty returns
Bulk density of transported products	744 kg / m³
Volume capacity utilization factor	1 (by default)

A5, Installation in the building:

This liquid primer product is ready for use, it does not require electricity and water consumption. Before use it is necessary to mix manually, and it is applied to the surface manually with a brush or roller.

Parameter	Value / Description
Secondary materials for installation (specified by materials)	None
Water use	0 l / kg
Other resource use	None
Energy used during the installation process (consumption and type)	0 MJ/kg (national grid mix)
Wastage of materials on the building site before waste processing	Product: During Installation: 0 % landfill In bags/mixer: 5 % landfill Packaging: 100 % landfill
Output materials as results of waste processing at the building site e.g. collected for recycling, for energy recovering, disposal	Product: 0,05 kg landfill Polyethylene bag: 0,05 kg landfill Paper for label: 0,0004 kg landfill Wooden pallet: 0,032 kg landfill
Direct emissions to ambient air, soil and water	None
Vehicle type, fuel type and consumption used for transport to waste treatments	Freight truck trailer 24 t payload, diesel consumption 38 L/100 km
Distance to waste processing	Landfill: 25 km

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 and B7 (Operational energy and water).

Once installation is complete, no actions or technical operations are required in the stages B1 – B7.

- Maintenance, repair, replacement or restoration are irrelevant in the specified applications.
- The product does not require any energy, water or material input to keep it in working order.
- It is not exposed to the indoor atmosphere of the building, nor is it in contact with the circulating water or the ground.

The product covered by this EPD does not declare product performances, and a working life that equals the building's lifetime can be assumed.

C1-C4, End of Life Stage

C1, Deconstruction, demolition
The de-construction and/or dismantling of the product take part of the demolition of the entire building, however, in our case, a small amount 0,05 MJ/kg of energy is considered.

C2, Transport to waste processing
Truck is used for transport, and distances to relevant waste processing site has been considered.

C3, Waste processing for reuse, recovery and/or recycling
The product is considered to be landfilled without reuse, recovery or recycling. No environmental loads are attributed to this stage.

C4, Disposal
The product is considered to be landfilled.

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

Parameter	Value / Description
Energy used for demolition	0,05 MJ/kg
Collection process specified by type	1 kg collected with mixed construction waste.
Recovery system specified by type	0 kg for recycling, 0 kg for incineration with/without energy recovery
Disposal specified by type	1 kg to landfill
Vehicle type, fuel type and consumption used for transport to waste treatments	Average truck trailer with 27 payload, diesel consumption 38L/100km;
Distance	Landfill: 25 km

D, Reuse/recovery/recycling potential

100% of wastes are landfilled, so no recycling, recovery or reuse has been considered.

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 from EC-JRC. Specific data has been supplied by the plant, and generic data come from GABI and Ecoinvent databases. Characterization factors of EN15804 are 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.

LCA data results are detailed on the following tables and they refer to:

A declared unit of 1 kg of weber SAD-54

The results are expressed in Unit / DU, for example e.g. kg CO_2 equiv / DU, MJ / DU and kg / DU

Product variants
There are no color variants of this product.
The EPD result is based on the 20l packaging.

Environmental Impacts

Environmental indicators		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
Climate Change (GWP-total)	kg CO_2 eq.	5,07E-01	3,70E-02	2,34E-01	0	0	0	0	0	0	0	4,47E-03	4,85E-05	0	1,33E-02	0
Climate Change (fossil) (GWP-fossil)	kg CO_2 eq.	6,07E-01	3,61E-02	1,90E-01	0	0	0	0	0	0	0	4,47E-03	4,82E-05	0	1,52E-02	0
Climate Change (biogenic) (GWP-biogenic)	kg CO_2 eq.	-3,80E-02	9,04E-04	3,85E-02	0	0	0	0	0	0	0	5,89E-06	8,12E-08	0	0,00E+00	0
Climate Change (land use change) (GWP-luluc)	kg CO_2 eq.	2,58E-05	2,11E-06	4,55E-06	0	0	0	0	0	0	0	9,82E-08	3,91E-07	0	4,37E-05	0
Ozone depletion (ODP)	kg CFC-11 eq.	4,81E-08	5,32E-18	2,40E-09	0	0	0	0	0	0	0	4,75E-19	8,87E-21	0	5,63E-17	0
Acidification terrestrial and freshwater (AP)	Mole of H+ eq.	2,50E-03	6,21E-05	1,56E-04	0	0	0	0	0	0	0	1,32E-05	2,80E-07	0	1,09E-04	0
Eutrophication (EP) freshwater	kg P eq.	4,55E-05	6,93E-09	2,95E-06	0	0	0	0	0	0	0	9,87E-10	1,47E-10	0	2,61E-08	0
Eutrophication (EP) marine	kg N eq.	1,40E-04	2,13E-08	9,04E-06	0	0	0	0	0	0	0	3,03E-09	4,52E-10	0	8,00E-08	0
Eutrophication (EP) terrestrial	Mole of N eq.	1,50E-03	2,62E-05	8,81E-05	0	0	0	0	0	0	0	2,45E-06	1,35E-07	0	2,80E-05	0
Photochemical ozone formation (POCP) - human health	kg NMVOC eq.	4,37E-03	2,89E-04	3,46E-04	0	0	0	0	0	0	0	2,68E-05	1,50E-06	0	3,08E-04	0
Resource use, mineral and metals (ADPE)	[kg Sb eq.][1]	1,65E-03	5,58E-05	1,08E-04	0	0	0	0	0	0	0	7,69E-06	2,56E-07	0	8,48E-05	0
Resource use, energy carriers (ADPF)	[MJ][1]	2,36E-06	4,31E-10	1,18E-07	0	0	0	0	0	0	0	1,17E-10	3,91E-12	0	1,36E-09	0
Water deprivation potential (WDP)	[m^3 world equiv.][1]	1,32E+01	4,97E-01	7,15E-01	0	0	0	0	0	0	0	5,46E-02	6,45E-04	0	1,99E-01	0

[1] 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				D 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
Use of renewable primary energy, excluding renewable energy resources used as raw materials (PERE) [MJ]	1,10E+00	1,21E-02	5,39E-02	0	0	0	0	0	0	0	1,905E-4	3,73E-05	0	2,61E-02	0
Primary energy resources used as raw materials (PERM) [MJ]	6,12E-01	0	3,06E-02	0	0	0	0	0	0	0	0	0	0	0	0
Total use of renewable primary energy resources (PERT) [MJ]	1,71E+00	1,21E-02	8,45E-02	0	0	0	0	0	0	0	1,905E-4	3,73E-05	0	2,61E-02	0
Use of non-renewable primary energy, excluding non-renewable energy resources used as raw materials (PENRE) [MJ]	1,32E+01	4,98E-01	7,16E-01	0	0	0	0	0	0	0	5,46E-2	6,48E-04	0	1,99E-01	0
Non-renewable primary energy resources used as raw materials (PENRM) [MJ]	5,08E+00	0	2,54E-01	0	0	0	0	0	0	0	0	0	0	0	0
Total use of non-renewable primary energy resources (PENRT) [MJ]	1,83E+01	4,98E-01	9,70E-01	0	0	0	0	0	0	0	5,46E-2	6,48E-04	0	1,99E-01	0
Input of secondary material (SM) [kg]	0	0	0	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) [m^3]	1,02E-02	2,19E-06	8,42E-04	0	0	0	0	0	0	0	3,39E-07	4,35E-08	0	5,02E-05	0

Waste Category & Output flows

	Product stage	Construction stage		Use stage							End of life stage				D reuse, recovery, recycling
Waste Category & Output Flows	A1 / A2 / A3	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
Hazardous waste disposed (HWD) [kg]	1,21E-06	3,21E-11	6,09E-08	0	0	0	0	0	0	0	5,54E-12	3,00E-11	0	3,04E-09	0
Non-hazardous waste disposed (NHWD) [kg]	3,80E-04	1,01E-05	7,65E-02	0	0	0	0	0	0	0	1,35E-05	1,03E-07	0	1,00E+00	0
Radioactive waste disposed (RWD) [kg]	1,08E-06	5,65E-07	-1,20E-06	0	0	0	0	0	0	0	6,27E-08	1,19E-09	0	2,27E-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]	9,58E-04	0	4,79E-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]	0,00E+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exported thermal energy (EET) [MJ]	0,00E+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Additional indicators from EN 15804+A2

	Environmental indicators	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
	GWP GHG [kg CO_2 eq.][2]	5,62E-01	3,58E-02	1,87E-01	0	0	0	0	0	0	0	0,004408	4,76E-05	0	1,49E-02	0

[2] This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product and packaging. As such, the indicator is identical to GWP-total except that the CF for biogenic CO_2 is set to zero.

Information about biogenic carbon content

Biogenic Carbon Content in kg C / DU	At factory gate, A3
Biogenic carbon content in product [kg]	0
Biogenic carbon content in packaging [kg]	1,32E-02

1 kg biogenic carbon is equivalent to 44/12 kg CO_2.

The biogenic carbon content in the packaging mainly comes from the wooden pallet.

Additional information:

Electricity information

Type of information	Value / Description
Location	Representative of Electricity purchased by Saint-Gobain Statybos Gaminiai UAB
Geographical representativeness description	Split of electricity bought with GO, 100 % of total: Hydro 36.73 % Solar power 0.81 % Wind power 49.74 % Thermal 12.73 %
Reference year	2023 *The GO will be prolonged to be valid at least to the validity of this EPD.*
Type of dataset	Cradle to gate from Gabi database
Source	Guarantee of Origin certificates from Ignitis
CO_2 emission (kg CO_2 eq. / kWh)	0,0446 kg of CO_2 eq /kWh *(based on Climate Change (fossil) indicator)*

Indoor air label

The product has not been tested.

Information related to EPD of multiple products

Product name	Variation
Weber SAD-54 (5l)	Indicators with variation above 10%: Climate Change, biogenic (38 %), Use of renewable primary energy (103 %), Primary energy resources used as raw materials (33%), Input of secondary material (100%), Biogenic carbon content in packaging (33%), land use (14%).

Information related to sector EPD

This is a product specific EPD.

Differences versus previous versions

This is the first version of the EPD.

References

1. EPD International (2021) General Programme Instructions for the International EPD® System. Version 4.0. (2021-03-29)
2. The International EPD System PCR 2019:14 version 1.3.2 Construction products
3. EN 15804:2012 + A2:2019/AC:2021 Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products
4. ISO 14025:2006: environmental labels and declarations – type III Environmental Declarations Principles and procedure (2009)
5. ISO 14040: Environmental management – Life Cycle Assessment – Principles and framework (2006)
6. ISO 14 044: Environmental management – Life Cycle Assessment – Requirements and guidelines (2006)
7. ISO 14020:2000 Environmental labels and Declarations - General principles
8. EN 998-1:2016 Specification for mortar for masonry Rendering and plastering mortar
9. LCA report, Information for the Environmental Product Declaration of Mortar product by Saint-Gobain Statybos Gaminiai, UAB, May 2024, version 1.3.2