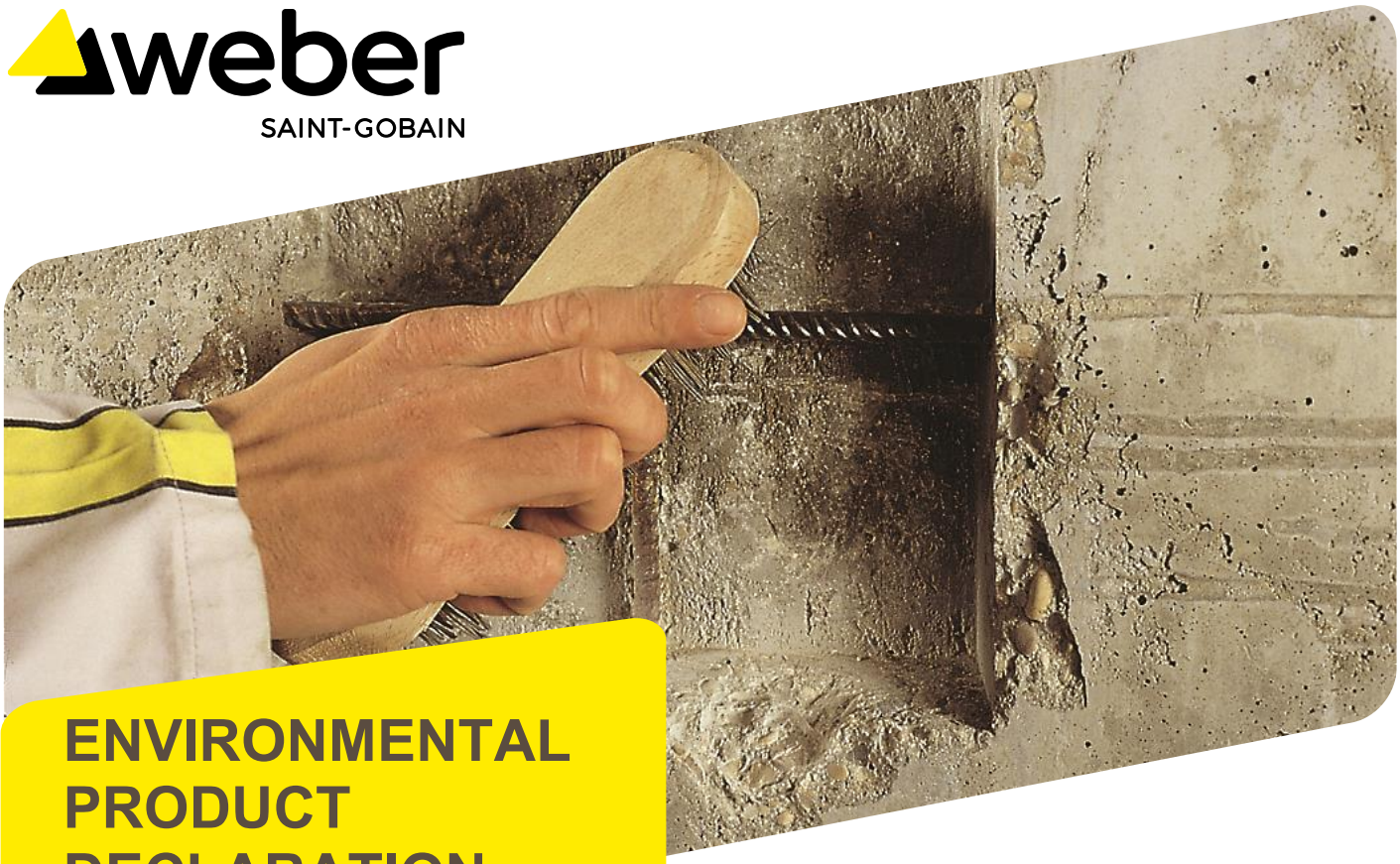


ENVIRONMENTAL PRODUCT DECLARATION

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

Weberep 331 TX

Version 1
Date of publication: 2025/10/15
Validity: 5 years
Valid until: 2030/10/14

The International EPD® System
Programme operator: EPD International AB
Registration number: EPD-IES-0024898

Production plant, Sodamco Emirates, ICAD3

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

GENERAL INFORMATION

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

PCR information

Product Category rules (PCR)

CEN standard EN 15804:2012+A2:2019/AC:2021 as the Core Product Category Rules (PCR)

Product category rules (PCR): PCR 2019:14 Construction Products, version 2.0

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

Chairs of the PCR review: Rob Rouwette (chair), Noa Meron (co-chair).

Verification

External and independent ('third-party') verification of the declaration and data, according to ISO 14025:2006, via
EPD verification through:

☒ Individual EPD verification without a pre-verified LCA/EPD tool
☐ Individual EPD verification with a pre-verified LCA/EPD tool
☐ EPD process certification* without a pre-verified LCA/EPD tool
☐ EPD process certification* with a pre-verified LCA/EPD tool
☐ Fully pre-verified EPD tool

Independent third-party verification of the declaration and data, according to ISO 14025:2006:
☒ EPD verification by individual verifier
Third party verifier: Marcel GOMEZ, Marcel Gómez Consultoría Ambiental
Telephone: 0034 630 64 35 93, email: info@marcelgomez.com
Approved by: The International EPD©

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

Ownership and limitation on use of EPD

The EPD owner has the sole ownership, liability and responsibility for the EPD.

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit 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 identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterization factors); and be valid at the time of comparison.

Information about EPD Owner

Address and contact information about the EPD owner: Weber UAE, Abu Dhabi, Plot No. 65 NR29. Industrial City of Abu Dhabi – ICAD 3

Description of the organization of the EPD owner: Weber UAE, Dubai
Management system-related certification:

- Quality management system: ISO 9001:2015 IND17.6181 U/Q 1-2
- Environment management system: ISO 14001:2015 IND18.5154 U/E 1-2
- Health and Safety management system: OHSAS 18001:2007 IND17.6180 U/HS 1-2

LCA practitioner: Nahla Neeme (Nahla.neeme@saint-gobain.com) and Anna Beatriz Suppelsa (AnnaBeatriz.Suppelsa@saint-gobain.com)

Communication: The intended use of this EPD is for B2B communication.

Product information

Product name: Weberep 331 TX

Visual representation of the product:

UN CPC CODE: 37510 Non-refractory mortars and concretes

Manufacturing site(s): Sodamco Emirates, ICAD3

Product description

This Environmental Product Declaration (EPD®) describes the environmental impacts of 1 kg of Weberep 331 TX.

1 kg of dry mortar installed and, with an estimated useful life of 50 years.

Weberep 331 TX is a ready-to-use mortar mainly made of sand (reconstituted grain size range), special cement, fibres, and special additives that provide special properties: non-shrinking, thixotropic, high strength, high adhesion and compactness.
The highly compacted grains slow down carbonation.

This EPD applies for one specific product manufactured by Weber UAE, in the plant Sodamco Emirates, ICAD3.

All technical characteristics and properties for any product can be found on the website.

For more information: www.webermiddleeast.com

All figures in this EPD refer to (Weberep 331 TX).

Description	Value	Unit
Weberep 331 TX	**1**	**0 kgC/kg**
Lifespan	**50**	**Years**

Technical data/physical characteristics:

Parameter	Value / Description	
VOC and formaldehyde content ISO/FDIS 11890-2/GC-MS	None (<10µg/l)	BS EN 196-1: 1994 BS EN 6319 Part 2 BS EN 6319 Part 3 BS EN 6319 Part 7
***Flexural strength BS EN 196-1 at 22°C ± 1: 7 days**	6 MPa	
Tensile strength: 28 days (BS EN 1881 Part 207)	>2.5 MPa	
Adhesion Strength: 28 days (BS EN 1881 Part 207)	>1.5 MPa	

Content declaration

Description of the main components and/or materials:

Product components	Weight (kg)	Post-consumer recycled material weight (%)	Biogenic material, weight- %	Biogenic material, kg C/kg of DU or FU
Binder	30-40%	0%	0%	0 kg C /FU
Mineral inert	60-70%	0%	0%	0 kg of C / FU
Other additives	1-5%	0%	0%	0kg of C / FU
Total	**100%**	0%	0%	
Packaging materials	**Weight (kg)**	**Weight versus the product (%)**	**Weight biogenic carbon, kg C/kg product**	**Biogenic material, kg C/kg of DU or FU**
Composite bag	0.001 – 0.005	0.1 – 0.5%	37%	0 kg C /FU
Polyethylene film LDPE	0.0001 – 0.0005	0.01 – 0.05%	0%	0 kg of C / FU
Wooden Pallet	0.01 – 0.02	1 – 2%	41%	0kg of C / FU

Hazardous substances

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).

LCA information

TYPE OF EPD	Cradle to grave and module D
FUNCTIONAL UNIT	1 kg of dry powder per m²
SYSTEM BOUNDARIES	Cradle to grave and module D
REFERENCE SERVICE LIFE (RSL)	The Reference Service Life (RSL) of the mortar 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	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. Flows related to human activities such as employee transport are excluded. 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.
ALLOCATIONS	Allocation has been avoided when possible and when not possible a mass allocation has been applied. The polluter pays and the modularity principles as well have been followed.
DATA QUALITY ASSESSMENT	Data quality of primary and secondary data had been judged by its precision (measured, calculated, or estimated), completeness (e.g., unreported emissions), consistency (degree of uniformity of the methodology applied), and representativeness (geographical, technological, and temporal).
GEOGRAPHICAL COVERAGE AND TIME PERIOD	Scope: UAE Data is collected from one production site Sodamco Emirates, ICAD3 located in Abu Dhabi, UAE Data collected for the year 2024
BACKGROUND DATA SOURCE	The databases Sphera CUP2024.2 and ecoinvent v.3.10 EF Package 3.1
SOFTWARE	Sphera LCA for experts (GaBi) 10

Data quality declaration

Process	Source type	Source	Reference year	Data category	A1-A3 GWP-GHG [kg CO2 eq.]
Manufacturing process					
Energy specific	Database	Sphera 2024.2	<5 years old	Primary data	1.8%
RMs from EPD					
EPD specific RM1	EPD	EPD number	EPD publication year	Primary data, secondary data	0%
EPD specific RM2	EPD	EPD number	EPD publication year	Primary data, secondary data	0.0%
Transportation (only if specific data collected)					
A2_Transport_Specific	Database	Sphera 2024.2 /ecoinvent 3.10	<5 years old	Primary data, secondary data	4.32%
Product					
Product - RM on demand1	EPD/Database	EPD number / Sphera 2024.2 /ecoinvent 3.10	<5 years old/EPD publication year	Primary data, secondary data	0%
Product - RM on demand2	EPD/Database	EPD number / Sphera 2024.2 /ecoinvent 3.10	<5 years old/EPD publication year	Primary data, secondary data	0%
Product - RM on demand3	EPD/Database	EPD number / Sphera 2024.2 /ecoinvent 3.10	<5 years old/EPD publication year	Primary data, secondary data	0%
Packaging					
Pack - RM on demand1	EPD/Database	EPD number / Sphera 2024.2 /ecoinvent 3.10	<5 years old/EPD publication year	Primary data, secondary data	0%
Pack - RM on demand2	EPD/Database	EPD number / Sphera 2024.2 /ecoinvent 3.10	<5 years old/EPD publication year	Primary data, secondary data	0%
Pack - RM on demand3	EPD/Database	EPD number / Sphera 2024.2 /ecoinvent 3.10	<5 years old/EPD publication year	Primary data, secondary data	0%
Background datasets in A1-A3					
Other processes	Database	Sphera 2024.2 /ecoinvent 3.10	<5 years old	Secondary data	0%
				Total share of primary data	**6%**

A1-A3 GWP-GHG	2.86E-01

Description of system boundaries

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	UAE	UAE	UAE	UAE	UAE	-	-	-	-	-	-	-	UAE	UAE	UAE	UAE	UAE

Life cycle stages

A1-A3. Product stage

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

A1. Raw materials supply

This module includes the extraction and transformation of raw materials.

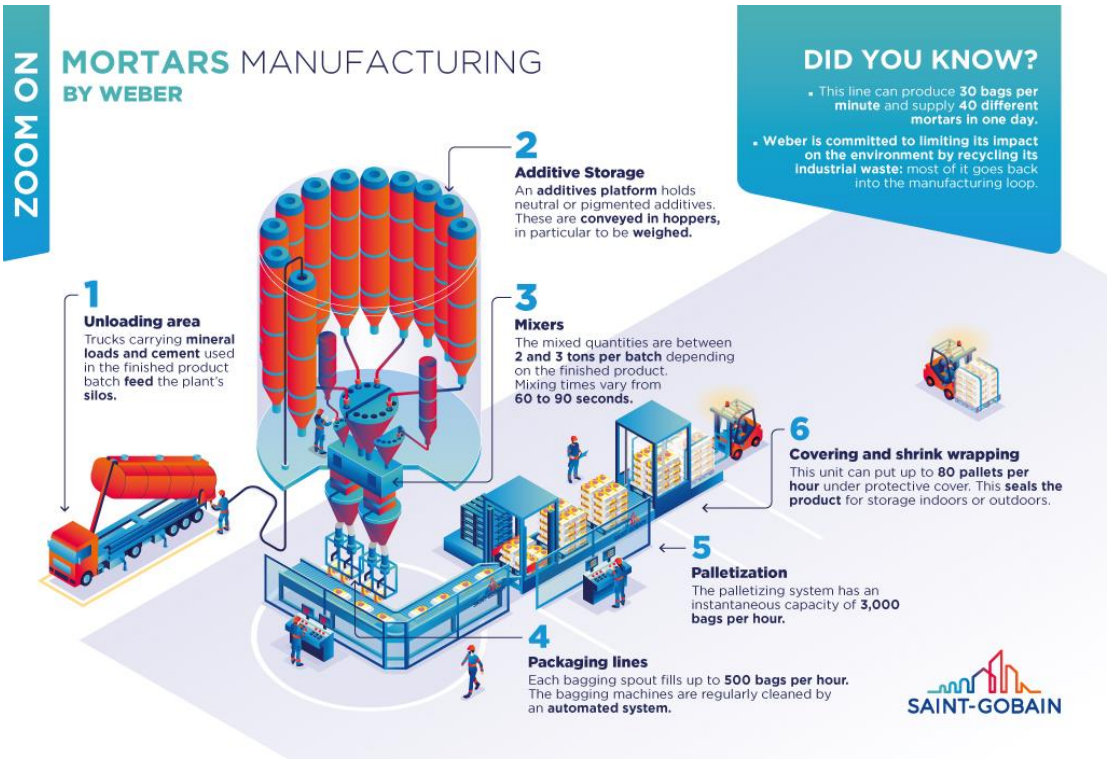
A2. Transport to the manufacturer

This module includes the transportation of raw materials and packaging to the manufacturing site. The modelling includes road, boat and/or train transportations.

A3. Manufacturing

This module includes the manufacture of products 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



The manufacturing activities include grinding, drying, storing, mixing, packing and internal transportation. Packaging-related flows in the production process and all up-stream packaging are included in the manufacturing module, i.e., wooden pallets, bags, and LDPE film.

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 trailer 24 t payload, diesel consumption 38 liters for 100 km
Distance	334 km
Capacity utilisation (including empty returns)	91% capacity utilization in mass including 1 % of empty returns in mass
Bulk density of transported products*	1.33 kg/lit
Volume capacity utilisation factor	1 (by default)

A5. Installation in the building

This module includes: the installation of the product, the surplus of raw materials and packaging (cradle to gate) to compensate for the loss of product during the installation, the transport and management of packaging and product waste.

In this module was taken into consideration:

- Energy used in the equipment to prepare the product.

Not taken into consideration:

- Additional accessories for installation
- Energy used to install the product (manual tools are used instead).

PARAMETER	VALUE / DESCRIPTION
Ancillary materials for installation (specified by materials)	none
Water use	0.16 l/kg of product
Other resource use	None
Quantitative description of energy type (regional mix) and consumption during the installation process	0.00864 MJ/kg of product
Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)	5% losses during installation
Output materials (specified by type) as results of waste processing at the building site e.g. of collection for recycling, for energy recovering, disposal	Product waste: Polyethylene film: 0.0002 kg/kg (100% landfill) Composite bag: 0.002 kg/kg (100% landfill) Wooden pallet: 0.0012 kg/kg to landfill and 0.0088 kg/kg to reuse
Direct emissions to ambient air, soil, and water	None

B1-B7. Use stage (excluding potential savings)

The use stage is divided into the following modules:

- **B1**
  - Potential carbonation is calculated according to the methodology proposed in the c-PCR-003 Concrete and concrete elements (EN 16757).
- **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 next modules:

- **C1: Deconstruction, demolition.** The de-construction and/or dismantling of the product take part of the demolition of the entire building. The energy considered for demolition is 0.045 MJ/m².
- **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	1 kg/m^2 of adhesive powder collected with mixed construction waste.
Recovery system specified by type	0% of Waste. There is no recovery, recycling or reuse of the product once it was reached its end of life phase
Disposal specified by type	100 % to municipal landfill
Assumptions for scenario development (e.g. transportation)	Average truck trailer with 27t payload, diesel consumption 38L/100km ; 80 km distance to landfill

D. Reuse/recovery/recycling potential

In the module D are declared the environmental benefits and loads from reusable products, recyclable materials, or energy recovery. Module D considers:

- Inputs of secondary materials: recycled raw materials for product and packaging (pre- and post-consumer),
- Outputs of secondary materials: product and/or packaging sent to recycling,
- Exported energy (electric or thermal): product and/or packaging sent to incineration with energy recovery.

Environmental performance

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 based on EF 3.1. Raw materials and energy consumption, as well as transport distances have been taken directly from the manufacturing plant.

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.
The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3)

Disclaimer 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 following indicators:

- Resource use, mineral and metals [kg Sb eq.]
- Resource use, energy carriers [MJ]
- Water deprivation potential [m³ world equiv.]
- Land use [Pt]
- Human toxicity (cancer) [CTUh]
- Human toxicity(noncancer) [CTUh]
- Ecotoxicity (freshwater [CTUe]

Disclaimer 2: The impact category Ionizing radiation, human health [kBq U235 eq.] deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction material is also not measured by this indicator.

Disclaimer 3: The assumptions for the modules are in accordance with the project report (LCA study).

The following non-mandatory additional environmental indicators are not declared:

- Ecotoxicity freshwater [CTUe]
- Particulate Matter emissions [Disease incidence]
- Cancer human health effects [CTUh]
- Ionizing radiation - human health [kBq U235 eq.]
- Non-cancer human health effects [CTUh]
- Land Use [Pt].

Results refer to a functional unit of 1kg/kg of dry powder.
The following results corresponds to a single product manufactured in a single plant.

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	C4 Disposal	D Reuse, recovery, recycling
Climate Change [kg CO2 eq.]	2.64E-01	2.63E-02	4.00E-02	-1.12E-01	0	0	0	0	0	0	1.77E-03	6.72E-03	0	1.94E-02	-5.00E-05
Climate Change (fossil) [kg CO2 eq.]	2.85E-01	2.58E-02	1.73E-02	-1.12E-01	0	0	0	0	0	0	1.77E-03	6.59E-03	0	1.60E-02	-4.93E-05
Climate Change (biogenic) [kg CO2 eq.]	-2.15E-02	7.11E-05	2.27E-02	0	0	0	0	0	0	0	1.52E-06	1.88E-05	0	3.31E-03	-2.27E-07
Climate Change (land use change) [kg CO2 eq.]	3.52E-04	4.27E-04	4.82E-05	0	0	0	0	0	0	0	6.45E-08	1.10E-04	0	9.58E-05	-3.98E-07
Ozone depletion [kg CFC-11 eq.]	1.72E-10	2.56E-15	1.04E-11	0	0	0	0	0	0	0	1.51E-16	9.61E-16	0	4.31E-14	-3.62E-16
Acidification terrestrial and freshwater [Mole of H+ eq.]	5.56E-04	2.89E-05	3.50E-05	0	0	0	0	0	0	0	4.06E-06	8.76E-06	0	1.13E-04	-2.54E-07
Eutrophication freshwater [kg P eq.]	1.11E-06	1.08E-07	6.79E-08	0	0	0	0	0	0	0	3.38E-10	2.78E-08	0	3.63E-08	-1.97E-10
Eutrophication marine [kg N eq.]	1.81E-04	9.59E-06	1.80E-05	0	0	0	0	0	0	0	1.63E-06	3.15E-06	0	2.92E-05	-9.08E-08
Eutrophication terrestrial [Mole of N eq.]	1.96E-03	1.17E-04	1.21E-04	0	0	0	0	0	0	0	1.79E-05	3.76E-05	0	3.21E-04	-1.00E-06
Photochemical ozone formation - human health [kg NMVOC eq.]	5.32E-04	2.70E-05	3.41E-05	0	0	0	0	0	0	0	4.81E-06	8.68E-06	0	8.93E-05	-2.47E-07
Resource use, mineral and metals [kg Sb eq.][1]	5.82E-08	2.16E-09	3.44E-09	0	0	0	0	0	0	0	4.26E-11	5.68E-10	0	1.03E-09	-5.38E-12
Resource use, energy carriers [MJ][1]	1.36E+00	3.31E-01	1.12E-01	0	0	0	0	0	0	0	2.29E-02	8.59E-02	0	2.11E-01	-7.48E-04
Water deprivation potential [m³ world equiv.][1]	1.34E-02	3.78E-04	5.11E-04	0	0	0	0	0	0	0	4.81E-06	1.01E-04	0	1.83E-03	-5.96E-06

[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[2]	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]	1.91E-01	2.80E-02	2.33E-02	0	0	0	0	0	0	0	1.14E-04	7.40E-03	0	3.67E-02	-2.77E-04
Primary energy resources used as raw materials (PERM) [MJ] [2]	2.20E-01	0.00E+00	-1.28E-01	0	0	0	0	0	0	0	0	0	0	0	0
Total use of renewable primary energy resources (PERT) [MJ] [2]	4.10E-01	2.80E-02	-1.05E-01	0	0	0	0	0	0	0	1.14E-04	7.40E-03	0	3.67E-02	-2.77E-04
Use of non-renewable primary energy (PENRE) [MJ] [2]	1.31E+00	3.31E-01	1.10E-01	0	0	0	0	0	0	0	2.29E-02	8.59E-02	0	2.11E-01	-7.48E-04
Non-renewable primary energy resources used as raw materials (PENRM) [MJ] [2]	4.97E-02	0.00E+00	2.49E-03	0	0	0	0	0	0	0	0	0	0	0	0
Total use of non-renewable primary energy resources (PENRT) [MJ] [2]	1.36E+00	3.31E-01	1.12E-01	0	0	0	0	0	0	0	2.29E-02	8.59E-02	0	2.11E-01	-7.48E-04
Use of secondary material (SM) [kg]	2.70E-02	0.00E+00	1.35E-03	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]	4.16E-04	3.15E-05	2.26E-05	0	0	0	0	0	0	0	1.72E-07	8.24E-06	0	5.58E-05	-2.43E-07

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

Waste Category & Output flows

	PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE LIFE CYCLE
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 use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	D Reuse, recovery, recycling
Hazardous waste disposed (HWD) [kg]	3.23E-04	1.07E-11	1.86E-05	0	0	0	0	0	0	0	7.07E-13	3.29E-12	0	5.24E-11	-4.85E-13
Non-hazardous waste disposed (NHWD) [kg]	1.52E-02	5.15E-05	3.13E-02	0	0	0	0	0	0	0	4.82E-06	1.40E-05	0	1.07E+00	-1.04E-03
Radioactive waste disposed (RWD) [kg]	5.52E-05	4.28E-07	5.26E-06	0	0	0	0	0	0	0	2.59E-08	1.57E-07	0	2.21E-06	-4.95E-08
Components for re-use (CRU) [kg]	0	0	9.19E-03	0	0	0	0	0	0	0	0	0	0	0	0
Materials for Recycling (MFR) [kg]	2.67E-03	0.00E+00	2.51E-02	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

	PRODUCT STAGE	CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE LIFE CYCLE
Environmental indicators	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 CO2 eq.][4]	2.86E-01	2.61E-02	2.14E-02	-1.12E-01	0	0	0	0	0	0	1.76E-03	6.67E-03	0	1.60E-02	-4.96E-05

GWP-GHG indicator from EN 15804

[4] The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus almost equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

Information on biogenic carbon content

Biogenic Carbon Content in kg C	PRODUCT STAGE A1 / A2 / A3
Biogenic carbon content in product [kg]	9.34E-04
Biogenic carbon content in packaging [kg]	5.26E-03

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

Additional environmental information:

Electricity information

The factory based in UAE uses the following electricity description.

Parameter	Information
Location	Representative of Electricity purchased by Saint-Gobain UAE
Geographical & technical representativeness	Share of energy sources -Nuclear 13.3 % -Natural gas 81% -Photovoltaics 0.6 % 2% transmission losses
Type of dataset/ dataset versions	Sphera CUP2024.2 ecoinvent 3.10 (medium voltage)
Source of electricity mix	IEA (2022)
GWP-GHG CO_2 eq.	0.399 kgCO2e/kWh

ABBREVIATIONS

DU	Functional unit
EPD	Environmental Product Declaration
eq.	equivalents
FU	Functional unit
g	gram
GJ	Giga Joules (as Net Calorific Value)
kg	kilogram
kWh	kilowatt-hour
L	liter
LCA	Life Cycle Assessment
LCI	Life Cycle Inventory Analysis
LCIA	Life Cycle Impact Assessment
MJ	Mega Joules (as Net Calorific Value)
PCR	Product Category Rules
RSL	Reference Service Life (in years)
ton	metric ton
GWP	Global warming potential
GO	Guaranties of origin

References

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