

Environmental Product Declaration



THE INTERNATIONAL EPD® SYSTEM



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

AUREA STONE

from

FOSHAN FASA



Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
EPD registration number:	S-P-11257
Publication date:	2023-10-31
Valid until:	2028-10-31

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

Accountabilities for PCR, LCA and independent, third-party verification
Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): PCR 2019:14 construction products, version 1.3.1 and UN CPC code : 376 Monumental or building stone and articles thereof
PCR review was conducted by: The international EPD system, info@environdec.com
Life Cycle Assessment (LCA)
LCA accountability: < Marcel Gómez Consultoria Ambiental, <i>El Masnou (Barcelona)</i> >
Third-party verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: <input checked="" type="checkbox"/> EPD verification by individual verifier Third-party verifier: < <i>Elisabet Amat, GREENIZE, eamat@greenize.es</i> > Approved by: The International EPD® System Procedure for follow-up of data during EPD validity involves third party verifier: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

Company information

Owner of the EPD: EPD owned by FOSHAN FASA TRADING COOPERATION LIMITED.

Contact: info@aureastone.com

Description of the organisation: Always at the forefront of the engineered stone industry, FASASTONE brings the highest level of surfaces to the market.

FASASTONE owns 5 production factories in China, India and Vietnam, 1 cut-to-size factory 12 automatic production lines 1 own quarry with More than 1000 employees. 95% of our products are exported to over 60 different countries. We export more than 3000 containers every year 1.8 million sqm/year. FASASTONE is the NO.1 Chinese quartz exporter to Europe.

Product-related or management system-related certifications: GREENGUARD, GREENGUARD GOLD, NSF International, ORTHODOX UNION.

Name and location of production site(s): Foshan, Guangdong Province, China.

Product information

Product name: Aurea Stone

Product identification: Aurea Stone with a thickness of 1,2 cm, 2 cm and 3 cm.

Product description: Aurea Stone is the first engineered stone in the industry with a reduced crystalline silica content of less than 20%, and with up to 70% of recycled components, such as glass, making Aurea Stone the leader in low silica printed engineered stones.

A new material with impressive visual depth reflected through soft and creamy nuances beneath the surface, providing subtle movement and realistic details. With a translucency equivalent to real marble, Aurea Stone surfaces are free from visible grains in the particulate. This results in better light reflection, brightness and clarity than any other engineered stone available.

Aurea Stone sets forth the path for others to follow, a new science of engineered stone, combining the latest digital printing technology with a new raw material composition. This combination makes it an ideal product, with a natural look and enhanced low environmental impact in its production.

For more information visit: <https://symphonybyaureastone.com/symphony-stone-resources>

UN CPC code: 376 Monumental or building stone and articles thereof

Other codes for product classification: Nil

Geographical scope: China and Global.

See the GPI and the PCR for other required product information. In particular, note the additional requirements on EPDs of multiple products.

LCA information

Functional unit / declared unit: 1 ton of Product.

Reference service life: 25 years

Time representativeness: The data collected are from the calendar year 2022

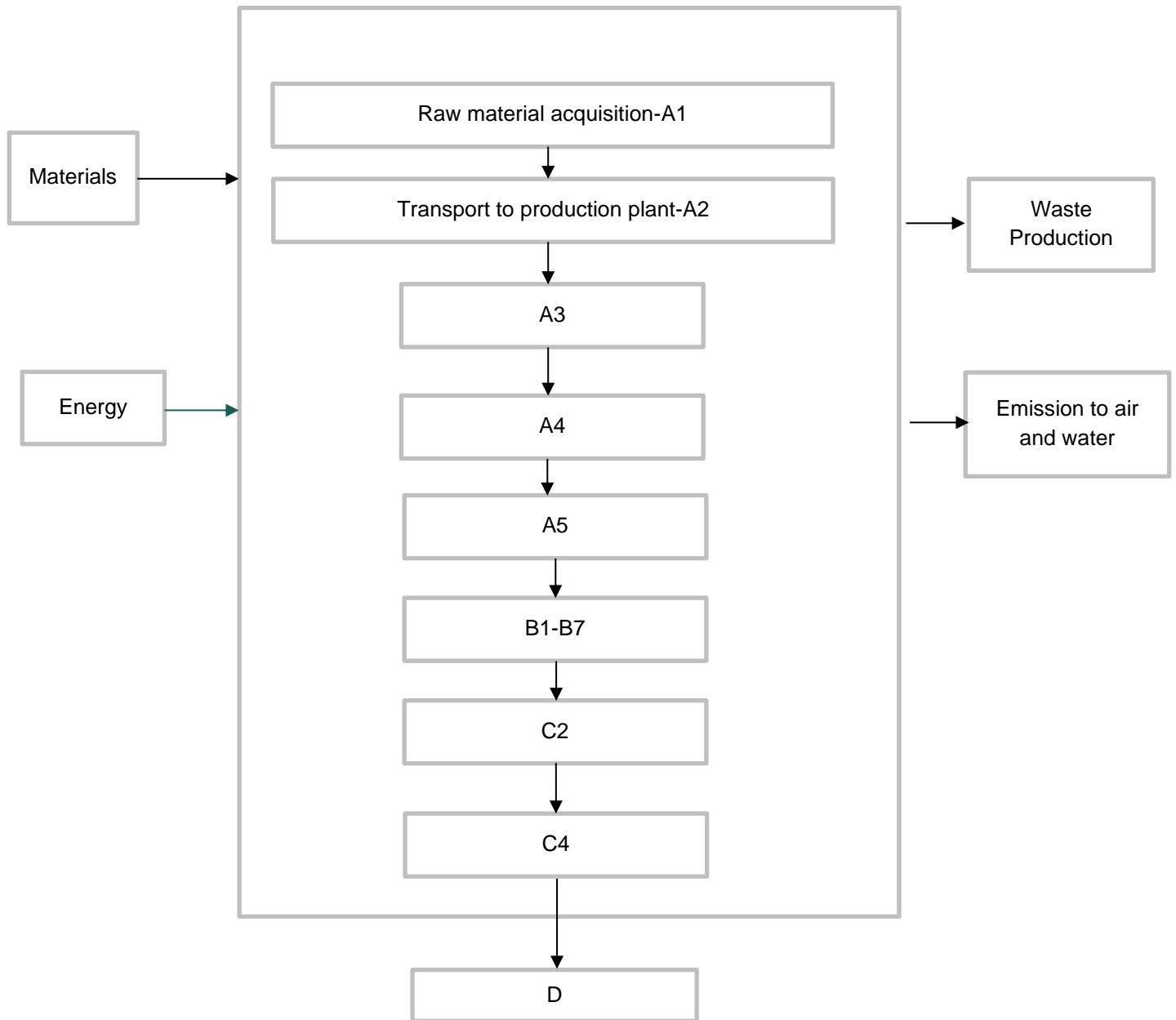
Database(s) and LCA software used: Ecoinvent 3.8, Simapro.

Description of system boundaries:

Cradle to grave and module D (A + B + C + D).

See the GPI and the PCR for other required LCA information.

System diagram:



More information:

Name and contact information of LCA practitioner:

Marcel Gómez Consultoría Ambiental S.L
www.marcelgomez.com
Tlfs 0034630643593
info@marcelgomez.com

Additional information:

Cut-off rules: In accordance with the provisions of the PCR 2019:14 construction products, version 1.3.1 and the standard UNE-EN 15804:2012+A2:2020, at least 95% of total inflows and outflows (mass and energy) per module have been included.

The "polluter pays" principle has been applied.

For the Electricity mix the electricity from China Southern power grid(CSG) from the Ecoinvent v3.8 is used.1 kwh electricity has an impact of 0,698 kg CO2 eq.

Data quality requirements:

In this study, data quality requirements established by ISO 14025 standards and reference PCRs "PCR 2019:14 Construction products, version 1.3.1 Published on 2021.02.05, valid until: 2024.12.20 and UNEEN 15804:2012+A2:2020 have been applied.

Data has been evaluated through a data quality matrix based on the Product Environmental Footprint Category rules criterion for the data quality management, as it is established in the UNE-EN 15804:2012+A2. As a result of the data quality matrix, it is quantified that the gathered data achieves a good level of quality (out of 5) in a range of very poor (1), poor (2), medium (3), good (4) and very good (5).

Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage	
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal		
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	X
Geography	GLO	GLO	CN	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	-
Specific data used	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- **A1-A3 Product stage**

- **A1 Raw materials supply:** this module takes into account the extraction and processing of raw materials and the production of energy which is consumed at the manufacturing plant.
- **A2 Transport:** this module includes the transport of the different raw materials from the manufacturer to the factory.
- **A3 Manufacturing:** this module includes the consumption of energy during the manufacturing process and production of packaging material used for the further distribution. Moreover, transport and management of the factory-produced waste are considered. No ancillary material is used.

- **A4-A5 Construction process stage**

- **A4 Transport**

PARAMETER	VALUE/DESCRIPTION
Fuel type and consumption of vehicle or vehicle type used for transport e.g. long distance truck, boat, etc.	Truck of 16- 32 ton. Fuel consumption: 51 L/100 Km.
Distance	Ship: 20416,80 km Truck: 825,78 km
Capacity utilisation (including empty returns)	50% (full + empty return)

Bulk density of transported products*	2300 kg/m ³
Volume capacity utilisation factor	1

○ **A5 Construction/Installation**

The product is directly transferred from the truck to the installation site, where manual operations are performed to install the analyzed product. Silicone is used as adhesive and packaging material waste sent to the Waste management (landfilled) is considered.

PARAMETER	VALUE/DESCRIPTION
Auxiliary materials for installation	Silicone is used as adhesive. 0,9 kg per ton of product.
Use of water	Not used.
Use of other resources	No other resource consumption.
Quantitative description of the type of energy (regional mix) and the consumption during the installation process	Not used.
Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)	Product losses (0%). Packaging waste generated in the installation is considered landfill. Pallet-102,17 kg Packaging film- 0,559 kg

- **B Use stage:** There is no Use phase (B1), repair (B3), replacement (B4), refurbishment (B5), operational energy use (B6), operational water use (B7) during its Reference Service Life. Maintenance (B2) is required but it is neglected because its below cutoff rule.
- **C End of life stage**
 - **C1 Deconstruction/demolition:** The product is dismantled manually and landfilled.
 - **C2 Transport to waste processing:** the model use for the transportation is applied with a distance of 50 km.
 - **C3 Waste processing for reuse, recovery and/or recycling:** the product is 0% recycled.
 - **C4 Disposal:** The product is 100% landfilled.

PARAMETER	VALUE/DESCRIPTION
Waste collection process specified by type	100% to landfill, collected and mixed with the rest of the construction waste.
Recovery system specified by type	16-32 tn truck. Fuel consumption: 25 l/100 Km Distance: 50 km.
Waste processing Recovery system specified by type, Recovery system specified by type	REUSE-0 kg. RECYCLE-0 kg. ENERGY RECOVERY- 0 kg. 100% landfill.
Disposal Characteristic performance, Disposal specified by type	1 ton.

MODULE D

Benefits of recycling. Despite the fact that module D has been considered, there are no recycling benefits since all the product is disposed of in a landfill as a mixture of construction products. 100% of the weight is sent to landfill.

Content information

Product components	Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/kg
Glass	610	100	0
Quartz	200	0	0
Resin	150	0	0
Pigment	20	0	0
Others	20	0	0
TOTAL	1000	-	-
Packaging materials	Weight, kg	Weight-% (versus the product)	Weight biogenic carbon, kg C/kg
Pallet	102,17	10,2	0,510
Plastic film	0,56	0,056	0
TOTAL	102,72	10,2	0,510

Dangerous substances from the candidate list of SVHC for Authorisation	EC No.	CAS No.	Weight-% per functional or declared unit
-	-	-	-

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 not been used in a percentage higher than 0,1% of the weight of the product.

Results of the environmental performance indicators

Mandatory impact category indicators according to EN 15804

Results per functional or declared unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-fossil	kg CO ₂ eq.	8,47 E+02	2,70 E+02	4,92 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	8,68 E+00	0,00 E+00	1,05 E+01	0,00 E+00
GWP-biogenic	kg CO ₂ eq.	- 1,87 E+02	0,00 E+00	1,87 E+02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
GWP-luluc	kg CO ₂ eq.	9,96 E-01	1,69 E-01	4,41 E-03	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,54 E-03	0,00 E+00	1,07 E-02	0,00 E+00
GWP-total	kg CO ₂ eq.	6,61 E+02	2,70 E+02	1,92 E+02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	8,69 E+00	0,00 E+00	1,05 E+01	0,00 E+00
ODP	kg CFC 11 eq.	9,25 E-05	5,59 E-05	1,85 E-06	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,91 E-06	0,00 E+00	3,20 E-06	0,00 E+00
AP	mol H ⁺ eq.	4,77 E+00	6,57 E+00	2,85 E-02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,59 E-02	0,00 E+00	8,90 E-02	0,00 E+00
EP-freshwater	kg P eq.	2,48 E-02	1,32 E-03	1,07 E-04	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	7,32 E-05	0,00 E+00	1,63 E-04	0,00 E+00
EP-marine	kg N eq.	8,65 E-01	1,63 E+00	7,02 E-03	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,05 E-02	0,00 E+00	3,03 E-02	0,00 E+00
EP-terrestrial	mol N eq.	9,69 E+00	1,81 E+01	7,76 E-02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,16 E-01	0,00 E+00	3,34 E-01	0,00 E+00
POCP	kg NMVOC eq.	3,44 E+00	4,77 E+00	2,35 E-02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,52 E-02	0,00 E+00	9,65 E-02	0,00 E+00
ADP-minerals&metals*	kg Sb eq.	8,70 E-03	4,40 E-04	3,20 E-05	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	2,96 E-05	0,00 E+00	3,44 E-05	0,00 E+00
ADP-fossil*	MJ	1,60 E+04	3,64 E+03	8,43 E+01	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,28 E+02	0,00 E+00	2,47 E+02	0,00 E+00
WDP*	m ³	7,72 E+02	8,79 E+00	5,27 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	4,43 E-01	0,00 E+00	1,08 E+01	0,00 E+00
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption															

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

Additional mandatory and voluntary impact category indicators

Results per functional or declared unit

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO ₂ eq.	8,18 E+02	2,68 E+02	4,83 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	8,59 E+00	0,00 E+00	1,04 E+01	0,00 E+00

Additional voluntary indicators e.g. the voluntary indicators from EN 15804 or the global indicators according to ISO 21930:2017

Resource use indicators

Results per functional or declared unit

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	3,48 E+03	2,97 E+01	4,68 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,47 E+00	0,00 E+00	4,19 E+00	0,00 E+00
PERM	MJ	1,88 E+03	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
PERT	MJ	5,36 E+03	1,91 E+03	4,68 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,47 E+00	0,00 E+00	4,19 E+00	0,00 E+00
PENRE	MJ	1,71 E+04	3,87 E+03	9,03 E+01	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,36 E+02	0,00 E+00	2,63 E+02	0,00 E+00
PENRM	MJ	4,93 E+03	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
PENRT	MJ	2,20 E+04	3,87 E+03	9,03 E+01	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,36 E+02	0,00 E+00	2,63 E+02	0,00 E+00
SM	kg	6,10 E+02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
RSF	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
NRSF	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
FW	m ³	1,93 E+01	2,89 E-01	1,34 E-01	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,43 E-02	0,00 E+00	2,61 E-01	0,00 E+00

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

¹ 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.

Waste indicators

Results per functional or declared unit

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	1,43 E-02	5,16 E-03	9,97 E-05	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,33 E-04	0,00 E+00	3,83 E-04	0,00 E+00
Non-hazardous waste disposed	kg	4,44 E+02	1,16 E+02	1,04 E+02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	6,49 E+00	0,00 E+00	1,00 E+03	0,00 E+00
Radioactive waste disposed	kg	4,19 E-02	2,49 E-02	3,04 E-04	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	8,30 E-04	0,00 E+00	1,48 E-03	0,00 E+00

Output flow indicators

Results per functional or declared unit

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Material for recycling	kg	5,81 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Materials for energy recovery	kg	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Exported energy, electricity	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00
Exported energy, thermal	MJ	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00

Other environmental performance indicators

Results per functional or declared unit

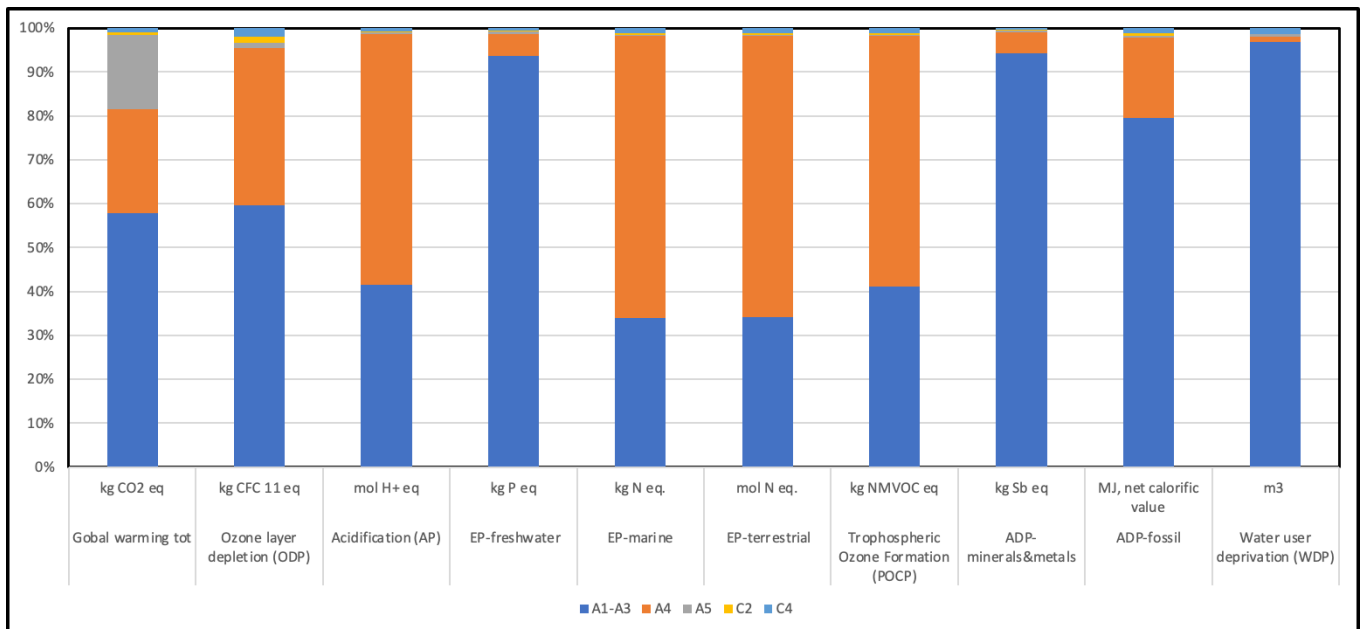
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate Matter emissions (PM)	Disease incidence	5,26 E-05	1,49 E-05	4,28 E-07	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	7,37 E-07	0,00 E+00	1,78 E-06	0,00 E+00
Ionizing radiation, human health (IRP)	kBq U235 eq	3,63 E+01	1,55 E+01	2,29 E-01	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	5,25 E-01	0,00 E+00	9,64 E-01	0,00 E+00
Eco-toxicity (freshwater) (ETP-fw)	CTUe	3,52 E+04	2,51 E+03	1,09 E+02	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,11 E+02	0,00 E+00	1,93 E+02	0,00 E+00
Human toxicity, cancer effects (HTP-c)	CTUh	8,09 E-07	1,42 E-07	3,64 E-09	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	3,27 E-09	0,00 E+00	7,73 E-09	0,00 E+00
Human toxicity, non-cancer effects (HTP-nc)	CTUh	2,91 E-05	2,00 E-06	6,70 E-08	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	1,07 E-07	0,00 E+00	1,19 E-07	0,00 E+00
Land use related impacts / Soil quality (SQP)	dimensionless	2,27 E+04	1,67 E+03	8,23 E+01	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	0,00 E+00	8,70 E+01	0,00 E+00	5,92 E+02	0,00 E+00

Additional environmental information

Interpretation of Results

From the graph the highest impact is coming from the A1-A3 (production phase) module over the total life cycle, except for Acidification, EP-marine, EP-terrestrial, Trophospheric Ozone Formation (POCP). Where the Water user deprivation (WDP) highest around 97%. In A4 EP-marine, EP-terrestrial has the highest impact around 64% over the total life cycle. In A5 the impact is almost zero, except for the Climate change which is 17%, this higher impact is due to the landfill of pallet which lead to the release of biogenic carbon.

C2 module the impact is less than 2% and C4 module the impact is less than 3% over the total life cycle.



Additional social and economic information

Nil

Information related to Sector EPD

This EPD® is individual.,

Differences versus previous versions

There is no Previous EPD

References

- General Instructions for The International EPD® System Program. Version 4.0.
- PCR 2019: 14 Construction products (EN 15804:A2) version 1.3.1.
- CEN (2019): UNE- EN 15804:2012+A2:2019/AC:2021 Sustainability in construction. Environmental product declarations. Basic product category rules for construction products.
- Declarations-Basic rules for the Construction product category.
- ISO 14020: 2000 Environmental labels and declarations - General principles.
- ISO 14025: 2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures.
- ISO 14040:2006 Environmental management – Life cycle assessment – Principles and framework.
- ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.
- The underlying LCA report, version 1 2023

