

Environmental Product Declaration



In accordance with ISO 14025 and EN 15804:2012+A2:2019 for:

Alterna Washbasin – Basic, Picto & Hospital series

from

Saint-Gobain Building Distribution (SGDS)



Program:	The International EPD® System, www.environdec.com
Program operator:	EPD International AB
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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): Construction Products PCR 2019:14 version 1.2.3
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
PCR review was conducted by: <i>The Technical Committee of the International EPD® System.</i>
Life Cycle Assessment (LCA)
LCA accountability: <i>Nadeen Hassan, EANDO AB</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: prof. Vladimír Kočí, PhD, LCA Studio, Czech Republic, vladimir.koci@lcastudio.cz Approved by: The International EPD® System Procedure for follow-up of data during EPD validity involves third party verifier: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

EPDs within the same product category but from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.

Company information

Owner of the EPD	Saint-Gobain Distribution Sweden
Contact	SGDS - Beriar Maroof (beriar.maroof@sgdsgruppen.se)
Description of the organisation	<p>SGDS Gruppen - specialists in collaboration for more efficient business in construction and installation. SGDS Gruppen AB is the head company of some of Sweden's leading trading companies in construction, sheet metal, tiles and installation. All the companies have a long and solid industry experience and provide most of Sweden's craftsmen with materials for various projects. Customers in different companies can also buy support items from the sister companies in the group, and in selected cases we take joint projects to facilitate the logistics of the supply of goods, which is then often critical for a smooth construction project.</p> <ul style="list-style-type: none"> • Optimera - construction trade for professional carpenters • Dahl – heat, plumbing and sanitary specialist • Bevego - building sheet metal, ventilation and technical insulation • Kakelspecialisten and Konradsson's Tiles - tiles, tiling and bathroom fittings <p>The company's focus on sales and services with direct contact to about 150,000 customers regularly.</p> <p>Saint-Gobain Distribution Sweden group (SGDS) is owned by Saint-Gobain with presence in 64 countries and having over 190 000 employees worldwide.</p>
Name and location of production site	Kwun Tong, Hong Kong

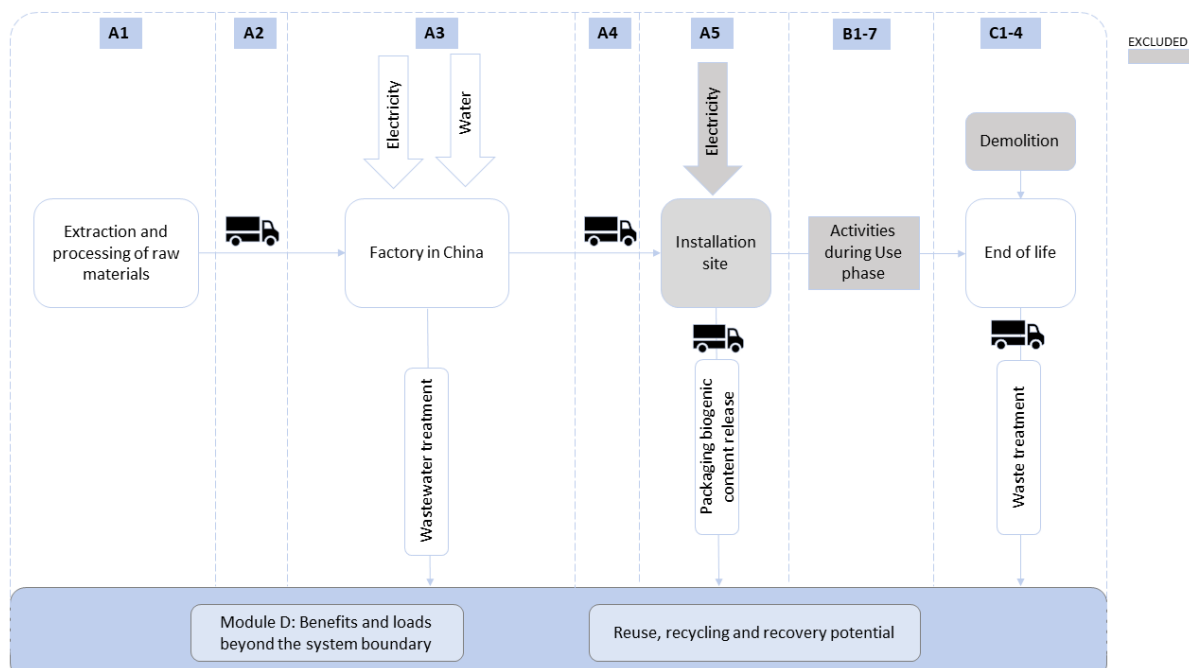


Product information

Product name	Alterna Washbasin – Basic, Picto & Hospital
Product identification	Sanitaryware
	The EPD is a specific EPD for this product and not an average.
Product description	Porcelain wash basin with white glaze for bolt hanging.
UN CPC code	37210 - Ceramic sinks, baths, water closet pans, flushing cisterns and similar sanitary fixtures.
Use	Alterna Washbasins are used in bathrooms as part of plumbing.

LCA information

Functional unit / declared unit	1 kg of Alterna Washbasin
Reference service life	50 years
Database(s) and LCA software used	Calculation completed in GaBi v10.6.29 with an integrated Ecoinvent database 3.8
System boundaries	Cradle to grave, with options. (A1-A3, A4, C1-C4, D)



More information

The EPD covers the following range of Alterna Washbasin:

- Alterna Basic
- Alterna Picto
- Alterna Hospital

Product name	Article number	Dimensions (mm)	Weight (kg)
ALTERNA PICTO TVÄTTSTÄLL 48 CM	7550931	480x375x175	10,6
ALTERNA PICTO TVÄTTSTÄLL 52,5 CM	7550933	525x405x175	11,7
ALTERNA PICTO TVÄTTSTÄLL 57 CM	7550934	570x425x170	13,8
ALTERNA PICTO TVÄTTSTÄLL 65,5 CM	7550935	655x500x180	17,9
ALTERNA HOSPITAL TVÄTTSTÄLL 50 CM	7590856	500x350x200	10,6
ALTERNA HOSPITAL TVÄTTSTÄLL 60 CM	7590857	600x460x200	11,7
ALTERNA BASIC TVÄTTSTÄLL 48 CM	7606532	480x375x145	9,6
ALTERNA BASIC TVÄTTSTÄLL 52,5 CM	7606533	525x405x145	10,9
ALTERNA BASIC TVÄTTSTÄLL 57 CM	7606534	570x425x145	12,8

All product ranges have the same material composition per kg.

A1, Raw material supply

This module considers the extraction and processing of all raw materials, energy, and transportation which occur upstream to the studied manufacturing process, including packaging material.

A2, transport to the manufacturer

The raw materials are transported to the manufacturing site.

A3, manufacturing

This module includes all resources used during the production of Alterna washbasin and waste produced. This also includes additives and packaging material.

A4, Transport

Transportation from the manufacturing site in China to SGDS Gruppen's distribution centre and then from the distribution centre to the building site is included.

A5, Construction installation

This stage is partially included to balance the biogenic content in packaging.

B1-B7 Use stage

This stage is not declared.

C1 Deconstruction/Demolition

This stage includes the de-construction and/or demolition of the building. This is not relevant as the product included in this study is not used in the construction process.

C2 Transport

This stage represents the transport distance to the waste processing facility.

C3 Waste processing

This stage includes any waste treatment needed.

C4 Final disposal

This includes any material that is landfilled.

D Benefits and loads beyond the system boundary

Emission credits obtained from energy recovery and/or recycling materials.

Cut-off criteria:

All input and output flows in a unit process were considered i.e., taking into account the value of all flows in the unit process and the corresponding LCI where data was available. Data gaps were filled by conservative assumptions with average or generic data. Any assumptions in such case were documented. The use of cut-off criterion on mass inputs and primary energy at the unit process level (1%) and at the information module level (5%).

Content declaration
Content

Content declaration	Amount (kg)
Clay	0,850
Kaolin	0,009
Zirconium Silicate	0,011
Talc	0,002
Quartz	0,053
Zinc oxide	0,003
Feldspar	0,051
Dolomite	0,0225
ABS	0,0002
Total	1

Packaging materials	Weight, kg	Weight-% (versus the product)
Label	0,00002	0,002%
Corner protection plate	0,0080	0,80%
Cardboard	0,0128	1,28%
Wood pallet	0,0508	5,08%
Polyethylene film	0,0016	0,16%
Tape	0,0021	0,21%
Total	0,08	7,54%

No substances that appear in the REACH candidate list of SVHC (Candidate List of Substances of Very High Concern) are present or used in the product concerning this EPD.

Modules declared and geographical scope

	Product stage			Assembly stage		Use stage							End of life stage				Benefits & loads beyond system boundary
	Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Modules	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	X	ND	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	CN	CN	CN	GLO	-	-	-	-	-	-	-	-	EU	EU	EU	EU	EU
Specidifc data used	96%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation products	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Potential environmental impact – indicators according to EN 15804+A2

		Results per functional or declared unit: 1 kg										
Indicator	Unit	A1	A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO2 eq	2,5E-02	8,5E-04	5,2E-01	5,4E-01	2,9E-01	1,4E-01	0,0E+00	4,8E-03	0,0E+00	1,5E-02	0,0E+00
GWP-fossil	kg CO2 eq	2,5E-02	8,5E-04	6,5E-01	6,8E-01	2,9E-01	0,0E+00	0,0E+00	4,8E-03	0,0E+00	1,5E-02	0,0E+00
GWP-biogenic	kg CO2 eq	4,0E-05	1,0E-07	-1,4E-01	-1,4E-01	3,2E-04	1,4E-01	0,0E+00	1,9E-05	0,0E+00	4,2E-05	0,0E+00
GWP-luluc	kg CO2 eq	8,0E-05	5,0E-08	3,8E-04	4,6E-04	4,0E-06	0,0E+00	0,0E+00	2,7E-05	0,0E+00	4,4E-05	0,0E+00
ODP	kg CFC-11 eq	2,3E-09	1,9E-10	2,6E-08	2,8E-08	3,8E-09	0,0E+00	0,0E+00	2,9E-16	0,0E+00	5,7E-17	0,0E+00
AP	mole H+ eq	1,8E-04	2,0E-06	1,8E-03	1,9E-03	1,0E-02	0,0E+00	0,0E+00	8,3E-06	0,0E+00	1,1E-04	0,0E+00
EP-freshwater	kg P eq	5,7E-06	8,8E-09	2,4E-05	3,0E-05	2,4E-07	0,0E+00	0,0E+00	1,4E-08	0,0E+00	2,6E-08	0,0E+00
EP-marine	kg N eq	4,5E-05	4,6E-07	4,3E-04	4,8E-04	2,7E-03	0,0E+00	0,0E+00	3,4E-06	0,0E+00	2,8E-05	0,0E+00
EP-terrestrial	mole N eq	5,2E-04	5,1E-06	4,5E-03	5,0E-03	2,9E-02	0,0E+00	0,0E+00	3,8E-05	0,0E+00	3,1E-04	0,0E+00
POCP	kg NMVOC eq	1,4E-04	1,3E-06	1,4E-03	1,5E-03	7,5E-03	0,0E+00	0,0E+00	7,4E-06	0,0E+00	8,5E-05	0,0E+00
ADP-minerals & metals	kg Sb eq	4,8E-07	1,5E-10	1,0E-06	1,5E-06	1,3E-08	0,0E+00	0,0E+00	4,0E-10	0,0E+00	1,4E-09	0,0E+00
ADP-fossil	MJ	3,5E-01	1,2E-02	9,4E+00	9,8E+00	3,5E+00	0,0E+00	0,0E+00	6,4E-02	0,0E+00	2,0E-01	0,0E+00
WDP	m3	1,9E-02	1,3E-05	2,6E-01	2,8E-01	7,3E-04	0,0E+00	0,0E+00	4,3E-05	0,0E+00	1,6E-03	0,0E+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											

Use of resources

[illegible]

Additional voluntary indicators

		Results per functional or declared unit: 1 kg										
Indicator	Unit	A1	A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-GHG ²	kg CO2 eq	2,4E-02	8,4E-04	6,4E-01	6,6E-01	2,8E-01	0,0E+00	0,0E+00	4,7E-03	0,0E+00	1,5E-02	0,0E+00
Acronyms	GWP-GHG global warming potential - greenhouse gases											

Waste and output flows

Waste

			Results per functional or declared unit: 1 kg									
Indicator	Unit	A1	A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	kg	5,9E-13	1,3E-15	2,6E-10	2,6E-10	1,3E-11	0,0E+00	0,0E+00	3,1E-13	0,0E+00	3,0E-09	0,0E+00
NHWD	kg	3,3E-04	1,1E-08	1,2E-01	1,2E-01	3,1E-04	0,0E+00	0,0E+00	9,2E-06	0,0E+00	1,0E+00	0,0E+00
RWD	kg	1,9E-06	1,6E-09	5,9E-05	6,1E-05	3,7E-06	0,0E+00	0,0E+00	7,9E-08	0,0E+00	2,2E-06	0,0E+00
Acronyms	HW Hazardous waste disposed; NHW Non-hazardous waste disposed; RW Radioactive waste disposed											

² 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.

Output flows

Results per functional or declared unit: 1 kg												
Indicator	Unit	A1	A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
CRU	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
MFR	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
MER	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
EEE	MJ	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
EET	MJ	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
Acronyms	CRU Components for reuse; MR Materials for recycling; MER Materials for energy recovery; EEE Exported electric energy; ETE Exported thermal energy											

Information on biogenic carbon content

Biogenic carbon content	Unit per DU	Amount
Biogenic carbon content in product	kg C	0
Biogenic carbon content in packaging	kg C	2,68E-02

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

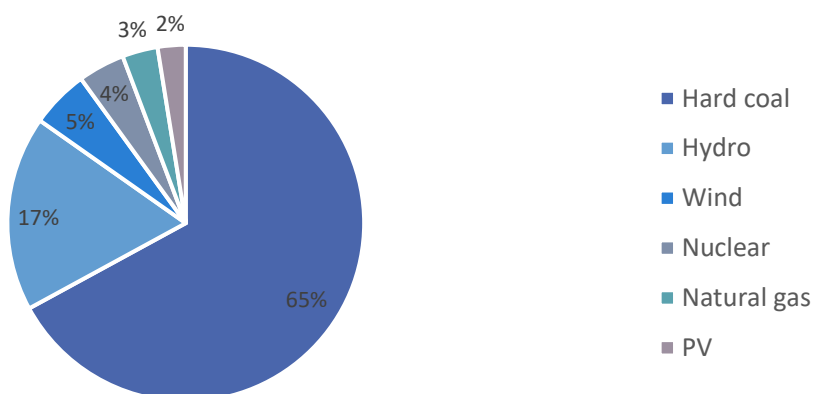
Disclaimers

ILCD classification	Indicator	Disclaimer
ILCD Type 1	Global warming potential (GWP)	None
	Depletion potential of the stratospheric ozone layer (ODP)	None
	Potential incidence of disease due to PM emissions (PM)	None
ILCD Type 2	Acidification potential, Accumulated Exceedance (AP)	None
	Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-freshwater)	None
	Eutrophication potential, Fraction of nutrients reaching marine end compartment (EP-marine)	None
	Eutrophication potential, Accumulated Exceedance (EP-terrestrial)	None
	Formation potential of tropospheric ozone (POCP)	None
	Potential Human exposure efficiency relative to U235 (IRP)	1
	Abiotic depletion potential for non-fossil resources (ADP-minerals&metals)	2
	Abiotic depletion potential for fossil resources (ADP-fossil)	2
ILCD Type 3	Water (user) deprivation potential, deprivation-weighted water consumption (WDP)	2
	Potential Comparative Toxic Unit for ecosystems (ETP-fw)	2
	Potential Comparative Toxic Unit for humans (HTP-c)	2
	Potential Comparative Toxic Unit for humans (HTP-nc)	2
	Potential Soil quality index (SQP)	2
Disclaimer 1 – This impact category 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 materials is also not measured by this indicator.		
Disclaimer 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.		

Additional information

Greenhouse gas emission from the use of electricity in the manufacturing phase.

Electricity mix	Reference	Value	Unit
China - 2018	Sphera	0,791	kg CO ₂ eq/kWh



Differences Versus Previous Versions

2022-12-22 Version 1

2024-06-02 Version 1.1

Editorial change: Added information on which products that are covered by this EPD.

2024-07-15 Version 1.2

Editorial change: Biogenic carbon content corrected to balance out over whole lifecycle.

References

General Programme
Instructions of the
International EPD® System.
Version 4.

General Programme Instructions of the International EPD® System.
Version 4.

ISO 14020:2000
Environmental labels and
declarations — General
principles

ISO 14020:2000 Environmental labels and declarations — General
principles

ISO 14025:2010
Environmental labels and
declarations - Type III
environmental declarations -
Principles and procedures

ISO 14025:2010 Environmental labels and declarations - Type III
environmental declarations - Principles and procedures

ISO 14044:2006
Environmental management
- Life cycle assessment -
Requirements and guidelines

ISO 14044:2006 Environmental management - Life cycle assessment -
Requirements and guidelines

EN 15804:2012+A2:2019-
Sustainability of construction
works - Environmental
product declaration - Core
rules for the product category
of construction products

EN 15804:2012+A2:2019- Sustainability of construction works -
Environmental product declaration - Core rules for the product category
of construction products

Construction Products
PCR 2019:14 version 1.2.3

EPD International (2021): PCR 2019:14 Construction products and
construction services, version 1.2.3