

Uppgiftslämnaren reserverar sig för eventuella fel i produktinformationen eller felaktigt registrerade uppgifter och förbehåller sig rätten att korrigera och/eller komplettera produktinformation utan föregående avisering

## 1 GRUNDDATA

### Varubeskrivning

Alterna Nova är ett modernt badkar med generösa mått och hög finish. Karet är tillverkat i glasfiberförstärkt sanitetsakryl, ett material som är både hållbart och lättskött. Det fristående badkaret har 4 stycken dolda justerbara ben. Badkaret levereras med kromad pop-up-ventil för utloppet. Vikt: 36, 38 eller 45 kg.

### Övriga upplysningar

#### Klassificeringar

ETIM >	-EC011609 - Badkar
BK04 >	-20101 - Badkar
BSAB >	-PUB.1 - PUB.1 - Badkar
UNSPSC >	-30181501

### Leverantörsuppgifter

#### Företagsnamn

SGDS Gruppen AB

#### Organisationsnummer

5562870229

#### Adress

Bryggerivägen 9 168 67 Bromma  
Stockholm

#### Hemsida

www.dahl.se

#### Miljökontaktperson

##### Namn

Beriar Maroof

##### Telefon

08-583 595 00

##### E-post

info@alterna.se

## 2 HÅLLBARHETSARBETE

## Företagets certifiering

- ISO 9001
- ISO 14001

## Policys och riktlinjer

### 3

## INNEHÅLLSDEKLARATION

**Kemisk produkt** Nej

**Innehåller produkten elektronik** Nej

**Omfattas varan av RoHs-direktivet** Nej

**Varans vikt**

## Vara / Delkomponenter

**Koncentrationen har beräknats på komponentnivå**

Pop-up ventil - 0,7% av hela varan

Ingående material /komponenter	Vikt-% i komponent	CAS-nr (alt legering)	EG-nr (alt legering)	Vikt % i produkt	Kommentar
kromatering	0,1%	7440-47-3	231-157-5	0,0007%	
Mässing CW617N (CuZn40Pb2) Pb ≤2,5%	99,9%	Övrigt, metaller		0,6993%	

Akrylbadkar - 90,3% av hela varan

Ingående material /komponenter	Vikt-% i komponent	CAS-nr (alt legering)	EG-nr (alt legering)	Vikt % i produkt	Kommentar
Poly(metylmetakrylat)plast, PMMA, Plexiglas	78%	9011-14-7		70,434%	
Kalciumkarbonat (krita, limestone, kalksten)	11%	1317-65-3	215-279-6	9,933%	
Glasfiber	11%	65997-17-3	266-046-0	9,933%	

Stålben - 7% av hela varan

Ingående material /komponenter	Vikt-% i komponent	CAS-nr (alt legering)	EG-nr (alt legering)	Vikt % i produkt	Kommentar
Rostfritt stål, AISI 304, 8-10,5% Ni, Bedömning på legeringsnivå	100%	12597-68-1	603-108-1	7%	

Avloppsats och bottenventil - 2% av hela varan

Ingående material /komponenter	Vikt-% i komponent	CAS-nr (alt legering)	EG-nr (alt legering)	Vikt % i produkt	Kommentar
Dioctyl terephthalate (bis(2-ethylhexyl) benzene-1,4-dicarboxylate (DOTP))	10%	6422-86-2	229-176-9	0,2%	
Polyvinylklorid, PVC,	40%	9002-86-2		0,8%	ftalatfri

Ethene, chloro-, homopolymer					
Polyetylen, PE, hög densitet (HDPE), låg densitet (LDPE), linjär lågdensitetspolyeten	50%	9002-88-4		1%	

**Del av materialinnehållet som är deklarerat** 100%

### Särskilt farliga ämnen

Följande ämnen finns med på kandidatförteckningen i en koncentration och som överstiger 0,1 vikts-%:

Namn	CAS-nr	EG-nr	Vikt % i produkt
Bly	7439-92-1	231-100-4	Inget angivet

### Utgåva av kandidatförteckningen som har använts

2024-03-28

### Nanomaterial

**Innehåller produkten tillsatt nanomaterial, som är medvetet tillsatta för att uppnå en viss funktion?:** Nej

### Tillsatt högflourerade ämnen (PFAS)

**Innehåller produkten tillsatt högflourerade ämnen (PFAS), som är aktivt tillsatta för att uppnå en specifik funktion?:** Nej

### Begränsningslistan

**Innehåller varan/produkten, eller någon av dess delkomponenter, ämnen som gör att produkten inte uppfyller villkoren i Begränsningslistan (Reach Bilaga XVII)?:** Nej

### POPs-förordningen

**Innehåller varan (eller någon av dess delkomponenter) ämnen som finns i POPs-förordningen?:** Nej

### Övrigt

Ämnen är redovisade ned till 0,01% viktprocent enligt iBVDs redovisningskrav. Eventuell avvikelser från redovisningskraven redovisas nedan

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## RÅVAROR

### Återvunnet material

**Innehåller varan återvunnet material:** Nej

### Träråvara

**Träråvara ingår i varan:** Nej

## 5 MILJÖPÅVERKAN

Finns en miljövarudeklaration framtagen enligt EN15804 eller ISO14025 för varan

Ja

Finns annan miljövarudeklaration

Ej angivet

## 6 DISTRIBUTION

Beskrivning av emballagehantering för distribution av varan

Levereras på pall

## 7 BYGGSCHEDET

Ställer varan särskilda krav vid lagring?

Nej

Ställer varan särskilda krav på omgivande byggvaror?

Nej

## 8 BRUKSSCHEDET

Finns skötselanvisningar/skötselråd?

Ja

Finns en energimärkning enligt energimärkningsdirektivet (2017/1369/EU) för varan?

Nej

## 9 RIVNING

Kräver varan särskilda åtgärder för skydd av hälsa och miljö vid rivning/demontering?

Nej

## 10 AVFALLSHANTERING

Omfattas den levererade varan av förordningen (2014:1075) om producentansvar för elektriska och elektroniska produkter när den blir avfall?

Nej

Är återanvändning möjlig för hela eller delar av varan?

Ja

Demontera och återmontera

**Är materialåtervinning möjlig för hela eller delar av varan?** Ja

stål kan återvinnas  
Plast kan återvinnas

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**Är energiåtervinning möjlig för hela eller delar av varan?** Ej angivet

**Har leverantören restriktioner och rekommendationer för återanvändning, material- eller energiåtervinning eller deponering?** Ja

rekommenderar återvinning

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**När den levererade varan blir avfall, klassas den då som farligt avfall?** Nej

**Avfallskod (EWC) för den levererade varan** 170203

<b>RSK-nummer</b>	<b>Eget Artikel-nr</b>	<b>GTIN</b>
733 57 10		7332508042354
733 57 11		7332508042361
733 57 12		7332508042378

**Produktdatablad**

**Prestandadeklaration**

**Säkerhetsblad**

**RoHS-intyg**

**Miljövarudeklaration**                      EPD Alterna Bathtub – Piazza, Ovale, Elisse,.pdf

**Skötselansvisning**

**Övriga bifogade dokument**

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# Environmental Product Declaration



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

## Alterna Bathtub – Piazza, Ovale, Elisse, Nova

from

***Saint-Gobain Building Distribution (SGDS)***



Program:	The International EPD® System, <a href="http://www.environdec.com">www.environdec.com</a>
Program operator:	EPD International AB
EPD registration number:	S-P-05612
Publication date:	2023-03-07
Valid until:	2028-03-06

*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](http://www.environdec.com)*





## General information

### Programme information

<b>Programme:</b>	The International EPD® System
<b>Address:</b>	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
<b>Website:</b>	<a href="http://www.environdec.com">www.environdec.com</a>
<b>E-mail:</b>	<a href="mailto:info@environdec.com">info@environdec.com</a>

<b>Accountabilities for PCR, LCA and independent, third-party verification</b>
<b>Product Category Rules (PCR):</b> 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>
<b>Life Cycle Assessment (LCA)</b>
LCA accountability: <i>Nadeen Hassan, EANDO AB</i>
<b>Third-party verification</b>
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, <a href="mailto:vladimir.koci@lcastudio.cz">vladimir.koci@lcastudio.cz</a>  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

<b>Owner of the EPD</b>	Saint-Gobain Distribution Sweden
<b>Contact</b>	SGDS - Beriar Maroof ( <a href="mailto:beriar.maroof@sgdsgruppen.se">beriar.maroof@sgdsgruppen.se</a> )
<b>Description of the organisation</b>	<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"> <li>• Optimera - construction trade for professional carpenters</li> <li>• Dahl – heat, plumbing and sanitary specialist</li> <li>• Bevego - building sheet metal, ventilation and technical insulation</li> <li>• Kakelspecialisten and Konradsson's Tiles - tiles, tiling and bathroom fittings</li> </ul> <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>
<b>Name and location of production site</b>	Taizhou, China

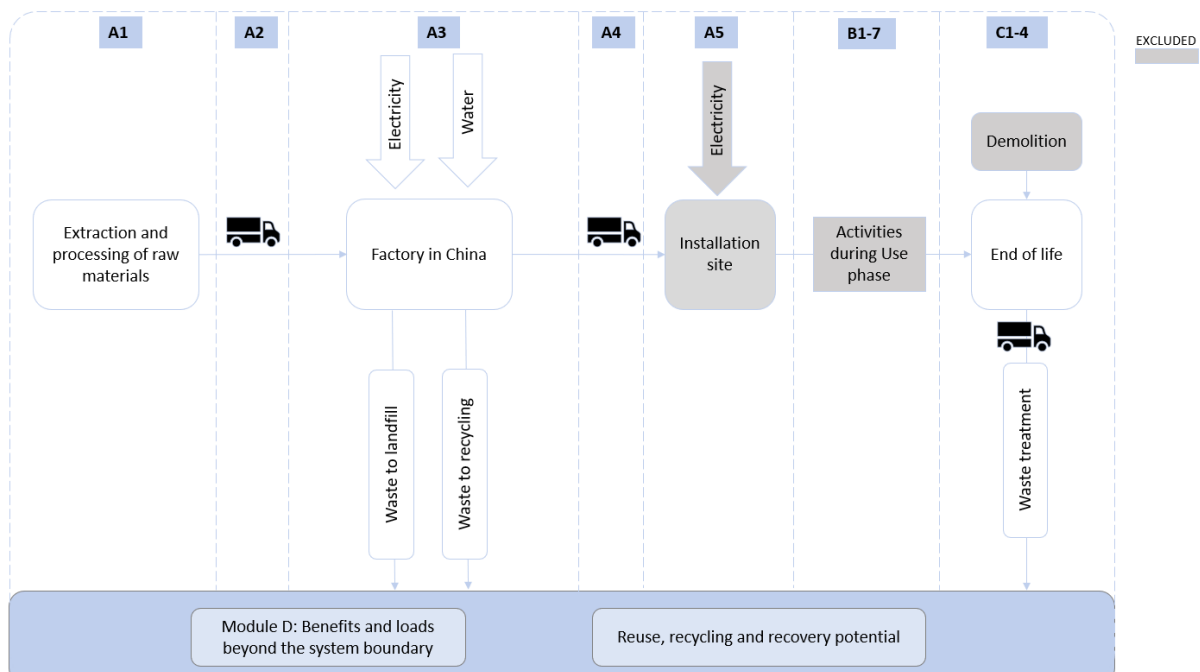


## Product information

<b>Product name</b>	Alterna Bathtub – Piazza, Ovale, Elisse, Nova
<b>Product identification</b>	Sanitaryware  The EPD is a specific EPD for this product and not an average.
<b>Product description</b>	Bathtub made of high-gloss white sanitary acrylic.
<b>UN CPC code</b>	37210 - Ceramic sinks, baths, water closet pans, flushing cisterns and similar sanitary fixtures.
<b>Use</b>	Alterna Bathtubs are used in bathrooms as part of plumbing.

## LCA information

<b>Functional unit / declared unit</b>	1 kg of Alterna Bathtub
<b>Reference service life</b>	Not relevant
<b>Database(s) and LCA software used</b>	Calculation completed in GaBi v10.6.2.9 with an integrated Ecoinvent database 3.8
<b>System boundaries</b>	Cradle to grave, with options. (A1-A3, A4, C1-C4, D)



## More information

The EPD covers the following Alterna bathtub:

- Piazza
- Ovale
- Elisse

- Nova

All product ranges have the same material composition per kg. Materials for drainage pipe and support frame are also included.

The product is assumed to be 100% landfilled at the End of life stage.

#### **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.*

#### **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 bathtub 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 not declared.*

#### **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)
Styrene	0,2417
PMMA	0,3223
Limestone	0,2417
Glass Fibre	0,1208
methyl ethyl ketone	0,0030
Brass	0,0151
PE	0,0151
<b>Total</b>	<b>1</b>

\*Materials for drainage pipe and support frame are also included.

Packaging materials	Weight, kg	Weight-% (versus the product)
Cardboard*	0,1208	12,08%
PE film	0,0121	1,21%
<b>Total</b>	<b>0,133</b>	<b>13,29%</b>

\*No biogenic content included in the dataset used for cardboard.

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	
<b>Modules</b>	<b>A1</b>	<b>A2</b>	<b>A3</b>	<b>A4</b>	<b>A5</b>	<b>B1</b>	<b>B2</b>	<b>B3</b>	<b>B4</b>	<b>B5</b>	<b>B6</b>	<b>B7</b>	<b>C1</b>	<b>C2</b>	<b>C3</b>	<b>C4</b>	<b>D</b>	
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	
Specific data used	Specific data used in module A3				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation products	0%				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation sites	0%				-	-	-	-	-	-	-	-	-	-	-	-	-	-

## Environmental Information

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

Results per functional or declared unit: 1 kg											
Indicator	Unit	A1	A2	A3	A1-A3	A4	C1	C2	C3	C4	D
PERE	MJ	3,8E+00	5,9E-04	1,9E+00	5,7E+00	9,0E-03	0,0E+00	3,6E-03	0,0E+00	2,6E-02	0,0E+00
PERM	MJ	0,0E+00	0,0E+00	2,3E+00	2,3E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
PERT	MJ	3,8E+00	5,9E-04	4,1E+00	8,0E+00	9,0E-03	0,0E+00	3,6E-03	0,0E+00	2,6E-02	0,0E+00
PENRE	MJ	5,6E+01	2,2E-01	5,7E+00	6,2E+01	2,4E+00	0,0E+00	6,4E-02	0,0E+00	2,0E-01	0,0E+00
PENRM	MJ	8,4E+00	0,0E+00	4,8E-01	8,9E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
PENRT	MJ	6,5E+01	2,2E-01	6,2E+00	7,1E+01	2,4E+00	0,0E+00	6,4E-02	0,0E+00	2,0E-01	0,0E+00
SM	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
RSF	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
NRSF	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
FW	m3	2,2E-02	5,4E-06	4,5E-03	2,7E-02	2,0E-05	0,0E+00	4,1E-06	0,0E+00	5,0E-05	0,0E+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										



## Additional voluntary indicators

		Results per functional or declared unit: 1 kg									
Indicator	Unit	A1	A2	A3	A1-A3	A4	C1	C2	C3	C4	D
GWP-GHG <sup>2</sup>	kg CO2 eq	2,7E+00	1,6E-02	5,0E-01	3,2E+00	1,9E-01	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	C1	C2	C3	C4	D
HWD	kg	4,0E-09	1,9E-14	3,3E-10	4,3E-09	8,6E-12	0,0E+00	3,1E-13	0,0E+00	3,0E-09	0,0E+00
NHWD	kg	1,2E-02	4,3E-07	1,4E-02	2,6E-02	2,0E-04	0,0E+00	9,2E-06	0,0E+00	1,0E+00	0,0E+00
RWD	kg	2,7E-04	5,2E-09	7,3E-05	3,5E-04	2,4E-06	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										

<sup>2</sup> 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	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
MFR	kg	0,0E+00	0,0E+00	6,8E-02	6,8E-02	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
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
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
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	0,0E+00
Biogenic carbon content in packaging	kg C	0,0E+00

1 kg biogenic carbon is equivalent to 44/12 kg CO<sub>2</sub>.

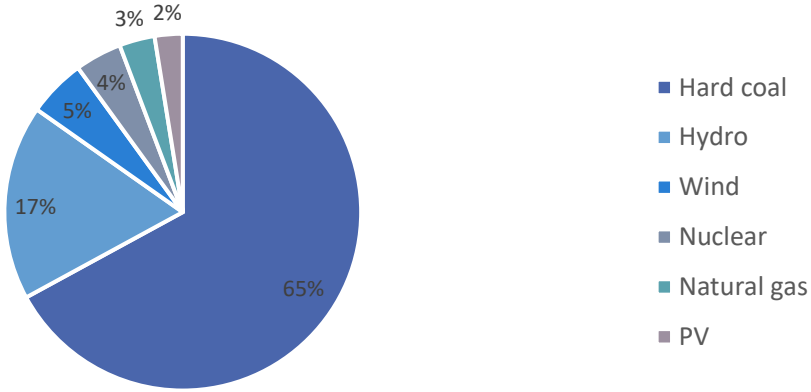
## Disclaimers

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
	Potential Human exposure efficiency relative to U235 (IRP)	1
ILCD Type 3	Abiotic depletion potential for non-fossil resources (ADP-minerals&metals)	2
	Abiotic depletion potential for fossil resources (ADP-fossil)	2
	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 <sub>2</sub> eq/kWh



## References

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

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

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Environmental labels and  
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ISO 14020:2000 Environmental labels and declarations — General  
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ISO 14025:2010  
Environmental labels and  
declarations - Type III  
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ISO 14025:2010 Environmental labels and declarations - Type III  
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ISO 14044:2006  
Environmental management  
- Life cycle assessment -  
Requirements and guidelines

ISO 14044:2006 Environmental management - Life cycle assessment -  
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EN 15804:2012+A2:2019-  
Sustainability of construction  
works - Environmental  
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