

Environmental Product Declaration



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

VINYL FLOORING - SPC FLOORING

from

***Jiangsu Zhengyoung Flooring Decoration Material Co.,
Ltd***



Programme:

Programme operator:

EPD registration number:

Publication date:

Valid until:

The International EPD® System, www.environdec.com

EPD International AB

EPD-IES-0020976

2025-05-30

2030-05-29

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): <i>PCR 2019:14 Construction products (version 1.3.4) and c-PCR-004 Resilient, textile and laminate floor covering (EN 16810:2017), version 2024-04-30 UN CPC code: 36910 Floor coverings of plastics, in rolls or in the form of tiles</i>
PCR review was conducted by: <i>The Technical Committee of the International EPD® System. See www.environdec.com for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact.</i>
Life Cycle Assessment (LCA)
LCA accountability: <i>Sally Xie, Intertek</i> sally.xie@intertek.com
Third-party verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ EPD verification by individual verifier Third-party verifier: <i>Silvia Vilčeková, Silcert, s.r.o.</i> Approved by: The International EPD® System
Procedure for follow-up of data during EPD validity involves third party verifier: ☐ Yes ☒ 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:

Jiangsu Zhengyoung Flooring Decoration Material Co., Ltd.

Contact:

Michele

michele@z-youngfloor.com

Description of the organization:

Jiangsu Zhengyoung Flooring Decoration Material Co., Ltd. which mainly produces vinyl flooring of new materials, a variety of high-quality LVT, SPC, and WPC flooring products of various types, such as imitation wood grain, stone grain, etc. The manufacturer has a number of modern production lines, the monthly production capacity can reach 800 standard containers, almost 1.6 million square meters of monthly production capacity. Through the steady development in recent years, the company's performance has been constantly creating new highs.

Product-related or management system-related certifications:

ISO 9001, ISO 14001

Name and location of production site(s):

Jiangsu Zhengyoung Flooring Decoration Material Co., Ltd.

No.32 Cuibei, Henglin Town, Wujin District, Changzhou, Jiangsu, China

Product information

Product name:

Vinyl flooring - SPC flooring



Figure 1 Image of the product

Product description:

SPC flooring is made primarily from polyvinyl chloride (PVC), calcium carbonate (limestone), additives (such as lubricants, stabilizers, etc.). It is composed of one clear PVC embossed wear layer with a final UV coating, printing film layer for décor, substrate layer for structural strength and stability. It may include a backing (such as IXPE) to improve acoustic performance and increase comfort underfoot. The product is waterproof, easy to install and maintain. It is reliable and economical, and also environmentally friendly.

Characteristics		Nominal value
Product thickness, mm		6
Wear layer thickness, mm		0.55
Backing layer (IXPE) thickness, mm		1.0
Product weight, kg/m ²		12.720
Product form, tiles or planks	Width, mm	83~610
	Length, mm	450~2200

Products application:

The products provide the primary function of flooring for interior applications. The flooring products are used in various residential and commercial applications including retail, healthcare, education, and hospitality.

UN CPC code:

36910 Floor coverings of plastics, in rolls or in the form of tiles

Geographical scope:

A1-A3 China; A4 From China to EU; A5 EU; B EU; C EU; D EU.

LCA information

Functional unit:

1 m² of installed SPC flooring

The conversion factor is 12.720kg per m² (0.079 m²/kg) based on the product of SPC flooring.

Reference service life:

30 years

Time representativeness:

1st January 2024 to 31st December 2024 (12 months)

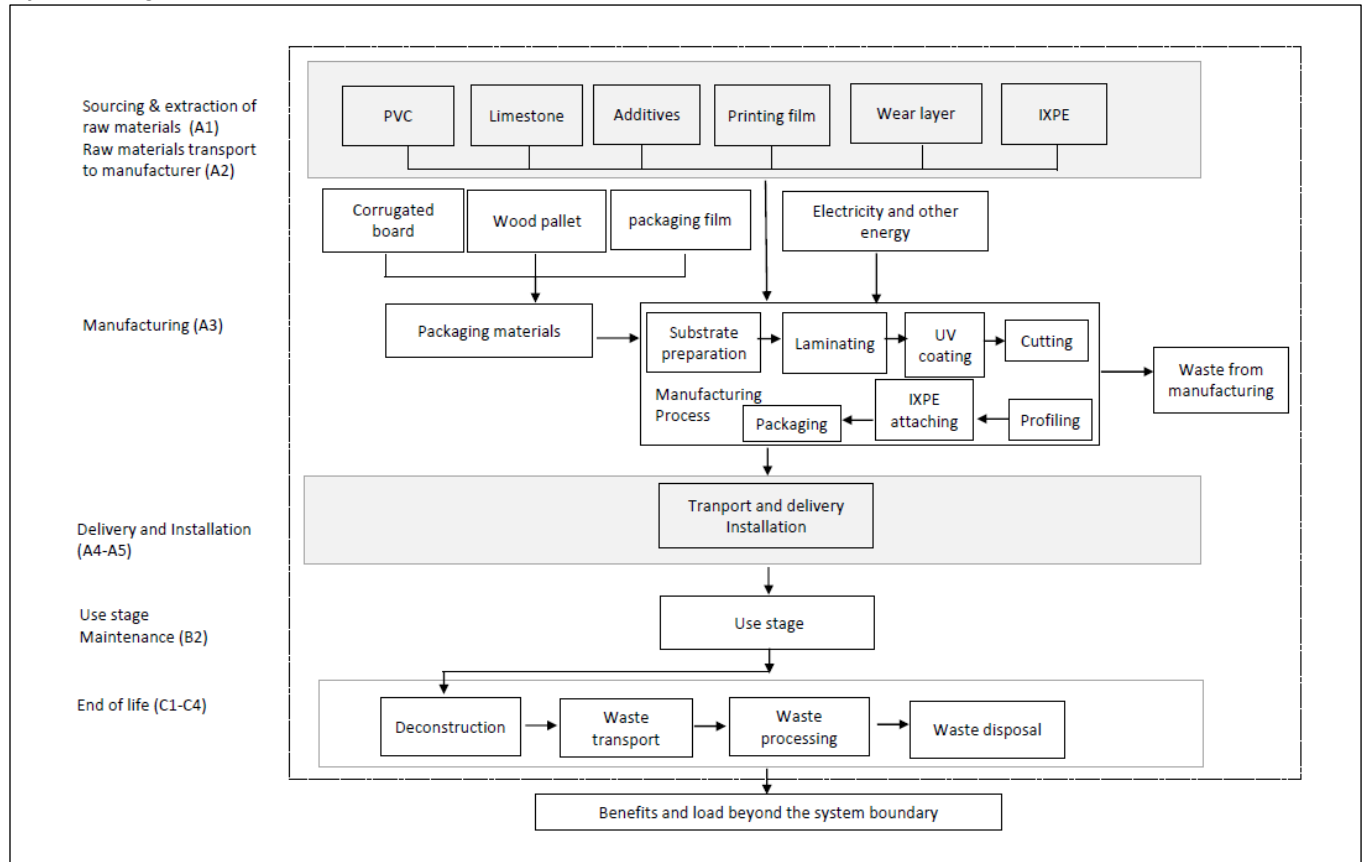
Database(s) and LCA software used:

Ecoinvent 3.10 (Allocation, cut-off by classification) and Simapro 9.6.0.1 software

Description of system boundaries:

The system boundary is type c) cradle to grave and module D. All life cycle stages are analyzed in the study, including A1-A3 product stage, A4-A5 construction process stage, B use stage, C1-C4 end-of-life stage, and D benefits and loads beyond the system boundary.

System diagram:



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	Reuse-Recovery-Recycling-potential
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	CN	CN	CN	CN to EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU
Specific data used	46%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

More information:

Electricity data source used in the manufacturing process in A3: Market group for electricity, low voltage, CN-ECGC, in Ecoinvent 3.10 (cut-off)

GWP-GHG: 0.884 kg CO₂ eq./kWh

Product stage (A1-A3)

A1, Raw material supply takes into account the extraction and processing of all raw materials and energy which occur upstream to the studied manufacturing process. Specifically, raw material supply covers sourcing of PVC resin, calcium carbonate (limestone), additives (such as lubricants, stabilizers, etc.), wear layer, printing film, and IXPE backing layer.

A2, Transport to the manufacturer. The transportation of the raw materials to the manufacturing site is studied in this module.

A3, Manufacturing. The manufacturing process of SPC flooring product mainly includes:

Substrate preparation, the raw materials are first mixed and heated. The mixture is then extruded into a sheet to create substrate.

Laminating, the substrate is laminated with a printing film, wear layer.

UV coating, the semi-finished product is coated with lacquer.

Cutting, the semi-finished product is cut into tiles or planks.

Profiling, the edge treatment is processed.

Backing attaching, an acoustic backing (IXPE) is bonded on the back side of the product.

Packaging, the finished product is packed into the corrugated board box, stacked on the wood pallet, and wrapped around with packaging film.

Quality checks are made at each step of the production process.

Packaging-related flows in the production process are included in the manufacturing module, i.e. packaging film, wood pallet and corrugated board box. Apart from production of packaging material, the supply and transport of packaging material are also considered in the LCA model.

Construction process stage (A4-A5)

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. The average transportation distance from the production plant to building site is 760 km transported by lorry and 10770 nautical miles (i.e., 19946 km) transported by ship.

A5, Installation into the buildings. Installation of the flooring is accomplished using hand tools with no energy consumption and associated emissions. During installation, approximately 5% of the flooring is lost as off-cuts. The additional production processes to compensate for the loss are considered in this study, so the elementary flow with 5% waste should be 1.05m² when the functional unit is defined as 1m² of installed SPC flooring. All flooring losses are collected for landfill disposal.

The impacts associated with packaging disposal are included with the installation phase. The packaging waste includes wood pallets, packaging film, and corrugated board boxes in A5. The end-of-life scenario of packaging followed the EU 27 waste management scenario.

Packaging	Recycling	Landfill	Incineration
Wood pallet	32.1%	38.4%	29.5%
Packaging film	40.3%	22.8%	36.9%
Corrugated board box	82.8%	8.9%	8.3%

Use and maintenance (B1-B7):

This comprises stages B1 to B7, but for floor coverings only stage B2 is considered as specified in the c-PCR. For B1 and B3-B7, they are neither applicable nor negligible.

The reference service life (RSL) of the flooring product is 30 years as stated by the owner. The service life of the flooring may vary depending on the amount and nature of flooring traffic and the type and frequency of maintenance.

B2, Maintenance stage. According to the owner, typical maintenance involves regular sweeping and damp mopping. The present assessment is based on a recommended weekly cleaning schedule

including sweeping and mopping with a neutral detergent. The B2 scenario is as below, and the impact is studied with RSL of 30 years.

Parameter	Value	Unit
Maintenance process	weekly damp mopping	-
Water consumption	5.2	L/m ² /year
Clean detergent consumption	0.0104	kg/m ² /year

End-of-Life Stage (C1-C4):

C1, De-construction. According to the owner, the flooring product can be manually removed from the floor. Hence no impact is considered during demolition.

C2, Transport to waste processing. It is estimated that there is no mass loss during the use of the product, therefore the end-of-life product is assumed that it has the same weight with the declared product. All of the end-of-life product is assumed to be transported as separate construction waste to the closest facilities. The transportation distance from the construction site to the nearest disposal area is estimated as 100 km, and the mode of transport is by lorry, which is the most common.

C3, Waste processing for reuse, recovery and/or recycling. It is assumed 100% of the deconstructed products (C1) to be sent to landfill. Hence, no waste processing is required.

C4, Disposal. The 100% of the deconstructed products are assumed to be sent to landfill.

Resource Recovery Stage (D)

D, Reuse/recovery/recycling potential.

The benefits and loads regarding recycling potential and energy recovery from the incineration of packaging materials were calculated.

CUT-OFF CRITERIA

The study does not exclude any modules or processes that are stated mandatory in EN 15804:2012+A2:2019 and the applied PCR. The study does not exclude any hazardous materials or substances.

The study includes all major raw materials and energy consumption. All inputs and outputs of the unit processes, for which data is available, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

ALLOCATION

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation.

In this study, as per EN 15804, allocation is conducted in the following order.

1. Allocation should be avoided.
2. Allocation should be based on physical properties (e.g., mass, volume) when the difference in revenue is small.
3. Allocation should be based on economic values.

Allocation used in Ecoinvent 3.10 environmental data sources follows the methodology "allocation, cut-off by classification". This methodology is in line with the requirements of the EN 15804 standard.

For data sets in this study, the allocation of the inputs is generally carried out via the mass. The consumption and transportation of raw materials was allocated by mass ratio.

In this study one allocation occurs on product production, in allocating the input and output, i.e. energy within the production site such as electricity, heat and auxiliary material such as water, and waste water, among the various series of flooring products, allocation is done via total production (floor area with the unit as m²) of all products produced on a yearly average.

During the production process of the product, the product scrap was used internally in the same product system for the products included in this study. This is a case of closed-loop recycling, thereby no co-products leave the product system, and no allocation was done for the product scrap, i.e. burdens of materials entered the final products are calculated in this study.

For this project, there is only one production site. So, there is no allocation among plants.

Key assumptions

1. 100 km transportation distance is assumed for the disposal of the product loss, packaging waste and the deconstructed products.
 2. 100% of the deconstructed products are assumed to be sent to landfills.
 3. For missing background data, the substitution of missing data using a similar background data approach was taken to shorten the gap. A sensitivity analysis was conducted.
- Calcium zinc stabilizer in SPC was replaced by stearic acid, zinc oxide, quicklime and wastewater.
- Calcium stearate in wear layer was replaced by stearic acid, quicklime and wastewater.

Inclusion or exclusion of Infrastructure and/or Capital goods

Depending on the PCR, in general, the production and end-of-life processes of infrastructure or capital goods used in the product system should be excluded, unless there is evidence that they are relevant in terms of their environmental impact, or when a generic LCI dataset includes infrastructure/capital goods, and it is not possible, within reasonable effort, to subtract the data on infrastructure/capital goods from this dataset (directly citation from section 4.3.2 of PCR 1.3.4). In this study, the infrastructure and capital goods are not included in the LCA analysis since they are used plenty of times for several years for the product manufacturing. According to the PCR, it should be excluded.

Content information

Product components		Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/functional unit
UV coating		0.011	0%	0%
Wear layer		0.715	0%	0%
Printing film		0.100	0%	0%
Substrate	PVC	2.647	0%	0%
	Calcium carbonate	8.834	0%	0%
	Additives	0.276	0%	0%
Adhesive for IXPE		0.037	0%	0%
Backing - IXPE		0.100	0%	0%
TOTAL		12.720	0%	0%
Packaging materials		Weight, kg	Weight-% (versus the product)	Weight biogenic carbon, kg C/functional unit
Wood pallet		0.2750	2.1619%	0.1078
Corrugated board box		0.2000	1.5723%	0.0851
Packaging film		0.0060	0.0472%	0
TOTAL		0.4810	3.7814%	0.1929

Substances, REACH – Very High Concern

The product does not contain any REACH SVHC substances in amounts greater than 0.1% (1000 ppm).

Results of the environmental performance indicators

Mandatory impact category indicators according to EN 15804, EF3.1

Results per functional 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.	1.61E+01	3.77E+00	1.07E+00	0.00E+00	1.16E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-01	0.00E+00	7.96E-02	-9.69E-02
GWP-biogenic	kg CO ₂ eq.	-6.58E-01	5.94E-04	7.43E-01	0.00E+00	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	2.15E-05	5.76E-05
GWP-luluc	kg CO ₂ eq.	2.06E-02	1.81E-03	1.15E-03	0.00E+00	7.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	4.10E-05	1.22E-03
GWP-total	kg CO ₂ eq.	1.55E+01	3.78E+00	1.82E+00	0.00E+00	1.25E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-01	0.00E+00	7.96E-02	-9.56E-02
ODP	kg CFC 11 eq.	4.02E-06	5.83E-08	2.05E-07	0.00E+00	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-09	0.00E+00	2.30E-09	-9.62E-10
AP	mol H ⁺ eq.	7.20E-02	8.28E-02	7.99E-03	0.00E+00	7.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	0.00E+00	5.64E-04	-7.13E-04
EP-freshwater	kg P eq.	4.15E-03	1.63E-04	2.23E-04	0.00E+00	5.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-06	0.00E+00	6.61E-06	-8.86E-05
EP-marine	kg N eq.	1.53E-02	2.09E-02	1.96E-03	0.00E+00	5.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	2.15E-04	-1.19E-04
EP-terrestrial	mol N eq.	1.55E-01	2.32E-01	2.03E-02	0.00E+00	1.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	2.35E-03	-1.22E-03
POCP	kg NMVOC eq.	6.28E-02	6.49E-02	6.77E-03	0.00E+00	5.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-04	0.00E+00	8.40E-04	-4.42E-04
ADP-minerals&metals*	kg Sb eq.	1.30E-04	5.52E-06	7.09E-06	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-07	0.00E+00	1.24E-07	-1.57E-07
ADP-fossil*	MJ	2.83E+02	4.86E+01	1.76E+01	0.00E+00	1.86E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E+00	0.00E+00	1.95E+00	-2.23E+00
WDP*	m ³	5.04E+00	1.53E-01	2.48E-01	0.00E+00	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-03	0.00E+00	8.53E-02	-9.35E-03
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.

Statement: The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.

Additional mandatory impact category indicators

Results per functional 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.	1.62E+01	3.78E+00	1.11E+00	0.00E+00	1.25E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-01	0.00E+00	7.96E-02	-9.56E-02

Resource use indicators

Results per functional unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	1.39E+01	4.61E-01	7.31E+00	0.00E+00	5.46E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-02	0.00E+00	1.75E-02	-5.09E+00
PERM	MJ	6.26E+00	0.00E+00	-6.26E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	2.01E+01	4.61E-01	1.05E+00	0.00E+00	5.46E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-02	0.00E+00	1.75E-02	-5.09E+00
PENRE	MJ	2.07E+02	4.86E+01	1.79E+01	0.00E+00	1.86E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E+00	0.00E+00	7.72E+01	-2.23E+00
PENRM	MJ	7.55E+01	0.00E+00	-2.55E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.53E+01	0.00E+00
PENRT	MJ	2.83E+02	4.86E+01	1.76E+01	0.00E+00	1.86E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E+00	0.00E+00	1.95E+00	-2.23E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	9.66E-02	4.76E-03	4.87E-03	0.00E+00	3.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	2.03E-03	-1.47E-03
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 unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	1.09E-02	8.95E-04	1.55E-03	0.00E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05	0.00E+00	2.74E-05	1.03E-04
Non-hazardous waste disposed	kg	1.23E+00	1.38E+00	1.20E+00	0.00E+00	1.35E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-01	0.00E+00	1.27E+01	-7.93E-03
Radioactive waste disposed	kg	2.66E-04	7.86E-06	1.41E-05	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-07	0.00E+00	3.03E-07	-1.48E-05

Output flow indicators

Results per functional unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Disclaimer: it is discouraging the use of the results of modules A1-A3 (A1-A5 for services) without considering the results of module C.

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