ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH

EN 15804+A2

ISO 14025

Kitchen faucets

EPD HUB, EPD number HUB-5117

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Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.2 (24 Mar 2025) and JRC characterization factors EF

LAUFEN

GENERAL INFORMATION

MANUFACTURER

Manufacturer	LAUFEN
Address	Wahlenstrasse 46, 4242 Laufen CH, Switzerland
Contact details	info@es.laufen.com
Website	www.laufen.com

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804:2012+A2:2019/AC:2021 and ISO 14025
PCR	EPD Hub Core PCR Version 1.2, 24 Mar 2025
Sector	Construction product
Category of EPD	Third party verified EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with modules C1-C4, D
EPD author	Sílvia Guillem, Sustainability Department, Roca Group
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Yazan Badour, as authorized verifier acting for EPD HUB Limited

This EPD is intended for business-to-business and/or business-to-consumer communication. The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	Kitchen faucets
Additional labels	-
Product reference	-
Place(s) of raw material origin	Switzerland, China
Place of production	Switzerland, China
Place(s) of installation and use	Europe
Period for data	Calendar year 2024
Averaging in EPD	Multiple products and multiple factories
Variation in GWP-fossil for A1-A3 (%)	+47
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	5

ENVIRONMENTAL DATA SUMMARY

Declared unit	1kg of faucets
Declared unit mass	1 kg
Mass of packaging	0,14 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	5,52
GWP-total, A1-A3 ($kgCO_2e$)	5,56
Secondary material, inputs (%)	18,7
Secondary material, outputs (%)	66,4
Total energy use, A1-A3 (kWh)	36
Net freshwater use, A1-A3 (m^3)	0,21

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

LAUFEN is dedicated to the production and sale of bathroom solutions that enrich people's everyday lives by creating unique spaces for wellbeing, personal care and health.

LAUFEN is the premium brand of Roca Group, a family-owned global enterprise driven by the Purpose of contributing to the well-being of society by delivering solutions that enhance everyday spaces, while caring for People and the Planet, and fostering Prosperity. Its commitment to sustainable development is deeply rooted in the organization—both as a strategic priority and through concrete actions. It is reflected in initiatives that translate this ambition into measurable improvements, ensuring that its day-to-day operations consistently contribute to a more positive and lasting impact.

Further information can be found at www.laufen.com and www.rocagroup.com

PRODUCT DESCRIPTION

This EPD covers kitchen faucets which are mainly made of brass. After the casting process, the faucet body is machined, air tested, grinded and polished, surface treated (chrome plating, PVD) and assembled. To calculate the environmental impact, a representative average faucet product has been considered based on the total volume manufactured in 2024.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	80	Asia, Europe
Minerals	0	-
Fossil materials	20	Asia, Europe
Bio-based materials	0	-

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0,0035
Biogenic carbon content in packaging, kg C	0,0014

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1kg of faucets
Mass per declared unit	1 kg
Functional unit	-
Reference service life	-

SUBSTANCES, REACH - VERY HIGH CONCERN

Substances of very high concern	EC	CAS
Lead	231-100-4	7439-92-1

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D		
x	x	x	ND	ND	ND	ND	ND	ND	ND	ND	ND	x	x	x	x	x		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/ demolition	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = ND.

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

A market-based approach is used in modelling the electricity mix utilized in the factory.

This faucet EPD includes kitchen faucets. These products are made of a mixture of metals, minerals and fossil materials; being brass the main component. After the casting process, the faucet body is machined, air tested, grinded and polished, surface treated (chrome plating, PVD) and assembled. The manufacturing process requires electricity and fuel for the different equipment. The finished product is packaged and sent to the warehouse. Ancillary materials like water and packaging and production waste like wastewater are also included.

TRANSPORT AND INSTALLATION (A4-A5)

Module not declared.

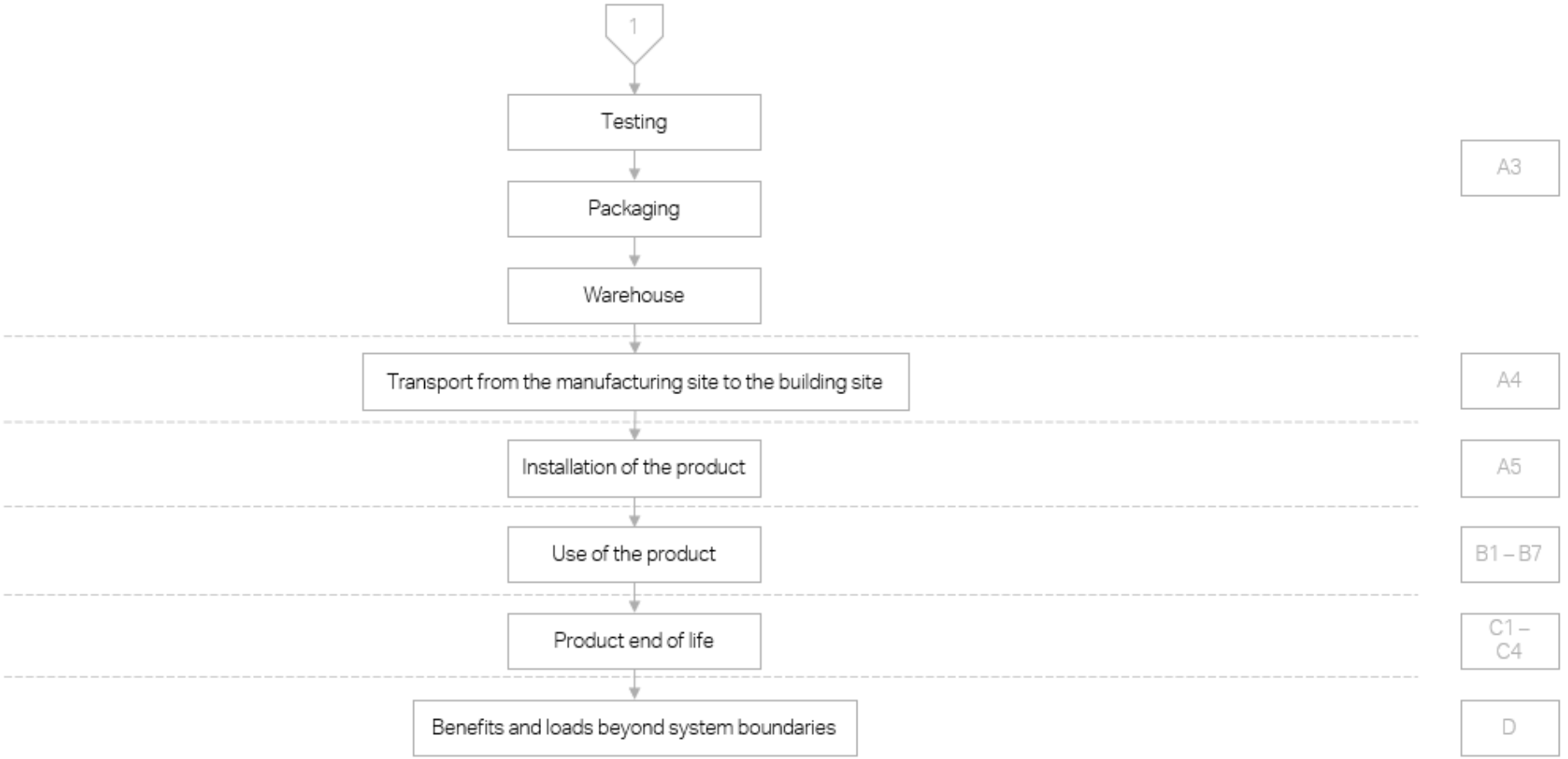
PRODUCT USE AND MAINTENANCE (B1-B7)

Module not declared.

PRODUCT END OF LIFE (C1-C4, D)

Energy consumption and natural resources of the disassembling end-of-life product and the impacts of demolition process are assumed to be zero due to the negligible consumptions (C1). Concerning the end-of-life product, it is assumed to be sent to the closest waste disposal facility by lorry. Around 55% of the product is sent for recycling, and 8% is processed in incineration facilities with energy recovery (C3). The remaining 37% goes to landfill (C4) as some fractions of the product cannot be recycled or valorised due to technological and operational limitations in available waste-management systems. These end-of-life routes represent the expected scenario when the product is managed correctly by the user; actual outcomes may vary depending on the user's waste-sorting practices and compliance with the available collection systems. The benefits and loads of recycling of product and packaging waste are included in Module D.

SYSTEM DIAGRAM


1
Testing
Packaging
Warehouse
Transport from the manufacturing site to the building site
Installation of the product
Use of the product
Product end of life
Benefits and loads beyond system boundaries
A3
A4
A5
B1 – B7
C1 – C4
D

The raw materials supplied are mainly stored in pallets in the warehouses of our facilities. Very few raw materials are delivered in big bags, sacks or drums.

The production activity of the faucet plant is based on the following operations: unloading of raw materials, sand core manufacturing, casting, machining process, grinding, polishing and surface treatment process, assembly, inspection and storage.

The stages of the production process are as follow:

1. Raw material preparation

The reception of raw and auxiliary materials used in the manufacturing process is carried out in a warehouse located in the faucet manufacturing facilities.

2. Sand core production

The production line starts with the manufacturing of the sand core by pressing silica sand into steel master moulds, depending on the type of piece to be manufactured. These sand cores are the inside part of the faucet.

3. Casting

The sand cores continue to the casting line, where they are placed inside the moulds. Once the mould containing the sand core is closed, the casting of molten brass takes place, occupying the space between the sand core and the walls of the mould.

Demoulding is carried out after the piece has cooled down. The unrefined pieces, with the remains of the sand core, undergo a vibration process to remove the remains of these casting sands.

Some pieces are produced in pairs and the joint between them must be cut off (casting cut).

4. Machining

The pieces continue to the machining line, a process in which cutting oil is used. The pieces undergo a degreasing process to remove any oil they might contain.

5. Grinding, polishing, chrome plating and PVD

The degreased pieces continue to the grinding and polishing line, operations that are carried out before the chemical surface treatment.

During the surface treatment, commonly known as chrome plating, the pieces undergo another degreasing process and then a nickel and chrome plating process, by dipping the pieces into various electrolytic tanks and lending them the desired surface finish.

In addition to the chrome plating process, specific pieces undergo a physical vapor deposition (PVD) process. A vaporised material is condensed on the surface, forming a thin layer and providing the faucet with a coloured finish.

6. Assembling, testing, packaging and storage in warehouse

Finally, the finished pieces continue to the assembly line. After verifying the lack of leaks (hydraulic tests), the final product is boxed, palletised, and sent to the warehouse for dispatch.

LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process that is 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.

The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

VALIDATION OF DATA

Data collection for production, transport, and packaging was conducted using time and site-specific information, as defined in the general information section on page 1 and 2. Upstream process calculations rely on generic data as defined in the Bibliography section. Manufacturer-provided specific and generic data were used for the product's manufacturing stage. The analysis was performed in One Click LCA EPD Generator, with the 'Cut-Off, EN 15804+A2' allocation method, and characterization factors according to EN 15804:2012+A2:2019/AC:2021 and JRC EF 3.1.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are made according to the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	No allocation
Packaging material	No allocation
Ancillary materials	No allocation
Manufacturing energy and waste	No allocation

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	Multiple factories
Grouping method	Based on a representative product
Variation in GWP-fossil for A1-A3, %	+47

Primary data represents the manufacturing sites of Laufen (CH) and Suzhou (CN). Data was averaged by calculating a weighted average of the products' consumption of raw materials, energy and production of waste.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator for EPD Hub V3 v3.2.3. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1/3.11 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1/3.11 environmental data sources follow the methodology ‘allocation, Cut-off, EN 15804+A2‘.

ENVIRONMENTAL IMPACT DATA

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.

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total[1)]	kg CO_2e	5,15E+00	6,38E-02	3,46E-01	5,56E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,15E-02	2,00E-01	8,30E-03	-2,25E+00
GWP – fossil	kg CO_2e	5,13E+00	6,38E-02	3,29E-01	5,52E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,14E-02	2,05E-01	8,79E-03	-2,23E+00
GWP – biogenic	kg CO_2e	1,28E-02	1,16E-05	1,09E-02	2,37E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,60E-06	-5,19E-03	-4,86E-04	-5,50E-03
GWP – LULUC	kg CO_2e	8,96E-03	2,33E-05	6,61E-03	1,56E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,38E-05	4,54E-05	1,88E-06	-5,60E-03
Ozone depletion pot.	kg $CFC\text{-}_{11}$e	1,20E-06	1,23E-09	1,97E-08	1,22E-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,51E-10	1,00E-09	7,84E-11	-7,82E-08
Acidification potential	mol H^+e	2,86E-01	2,02E-04	1,54E-03	2,88E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,05E-04	2,98E-04	2,16E-05	-1,91E-01
EP-freshwater[2)]	kg Pe	9,44E-02	4,32E-06	1,01E-04	9,45E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,43E-06	1,70E-05	4,17E-07	-1,52E-02
EP-marine	kg Ne	1,60E-02	6,78E-05	5,09E-04	1,66E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,41E-05	8,65E-05	4,60E-05	-9,55E-03
EP-terrestrial	mol Ne	2,15E-01	7,37E-04	3,48E-03	2,19E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,71E-04	7,97E-04	8,54E-05	-1,34E-01
POCP ("smog")[3)]	kg NMVOCe	6,09E-02	3,14E-04	1,22E-03	6,24E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,48E-04	2,44E-04	3,58E-05	-3,76E-02
ADP-minerals & metals[4)]	kg Sbe	4,00E-03	2,05E-07	5,08E-06	4,00E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,02E-07	1,04E-06	5,10E-09	-2,68E-03
ADP-fossil resources	MJ	7,07E+01	9,00E-01	2,45E+01	9,61E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,43E-01	4,92E-01	6,73E-02	-3,18E+01
Water use[5)]	m^3e depr.	3,77E+00	4,42E-03	3,62E+00	7,39E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,07E-03	2,22E-01	2,78E-04	-2,16E+00

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO4e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy[8)]	MJ	1,45E+01	1,51E-02	2,40E+01	3,85E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,14E-03	-1,96E+00	-2,05E-01	-9,13E+00
Renew. PER as material	MJ	2,66E-03	0,00E+00	0,00E+00	2,66E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	-2,00E-03	-6,66E-04	1,61E-02
Total use of renew. PER	MJ	1,45E+01	1,51E-02	2,40E+01	3,85E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,14E-03	-1,97E+00	-2,06E-01	-9,11E+00
Non-re. PER as energy	MJ	6,59E+01	9,00E-01	2,43E+01	9,11E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,43E-01	-4,20E+00	-2,05E+00	-3,32E+01
Non-re. PER as material	MJ	5,50E+00	0,00E+00	2,34E-01	5,74E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	-4,30E+00	-1,43E+00	2,89E+00
Total use of non-re. PER	MJ	7,14E+01	9,00E-01	2,45E+01	9,68E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,43E-01	-8,50E+00	-3,48E+00	-3,03E+01
Secondary materials	kg	1,87E-01	4,08E-04	5,57E-03	1,93E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,98E-04	5,71E-04	1,87E-05	3,44E-01
Renew. secondary fuels	MJ	2,40E-03	5,16E-06	2,13E-04	2,62E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,52E-06	3,75E-05	3,71E-07	-6,35E-04
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m^3	1,29E-01	1,23E-04	8,45E-02	2,14E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,95E-05	5,15E-03	-1,97E-04	-9,18E-02

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	1,42E+00	1,32E-03	2,73E-02	1,45E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	7,63E-04	5,34E-02	9,33E-05	-7,34E-01
Non-hazardous waste	kg	8,58E+01	2,74E-02	7,25E+00	9,30E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,44E-02	2,78E-01	3,37E-01	-5,41E+01
Radioactive waste	kg	1,65E-04	2,73E-07	2,90E-04	4,55E-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,09E-08	5,59E-07	1,47E-08	-8,97E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	6,64E-01	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	7,34E-01	0,00E+00	0,00E+00
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	3,06E-01	0,00E+00	0,00E+00
Exported energy – Heat	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	4,28E-01	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO_2e	5,11E+00	6,34E-02	3,44E-01	5,52E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,13E-02	2,06E-01	2,20E-02	-2,23E+00
Ozone depletion Pot.	kg CFC_{-11}e	1,03E-06	9,78E-10	1,48E-08	1,04E-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,60E-10	9,34E-10	6,24E-11	-7,43E-08
Acidification	kg SO_2e	2,51E-01	1,53E-04	1,24E-03	2,53E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,02E-05	2,37E-04	1,61E-05	-1,67E-01
Eutrophication	kg PO_4^3e	1,58E-02	3,88E-05	7,87E-04	1,66E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,95E-05	4,23E-05	2,50E-05	-7,58E-03
POCP (“smog”)	kg C_2H_4e	1,06E-02	1,45E-05	1,13E-04	1,07E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	7,20E-06	1,88E-05	5,22E-06	-6,93E-03
ADP-elements	kg Sbe	3,98E-03	2,00E-07	5,08E-06	3,98E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,91E-08	9,63E-07	4,98E-09	-2,67E-03
ADP-fossil	MJ	6,21E+01	8,81E-01	4,13E+00	6,71E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,37E-01	4,56E-01	6,64E-02	-2,66E+01

SCENARIO DOCUMENTATION

DATA SOURCES

Manufacturing energy scenario documentation

1. Market for electricity, medium voltage, Switzerland, Ecoinvent, 0.0233 kgCO2e/kWh
2. Heat production, propane, at industrial furnace >100kW, World, Ecoinvent, 0.0945 kgCO2e/MJ

EOL scenarios documentation - C1-C4 (Data source)

1. Treatment of waste paperboard, unsorted, sorting, Ecoinvent, Materials for recycling, 0.116 kg
2. Treatment of waste packaging paper, municipal incineration, Ecoinvent, 0.011 kg
3. Treatment of waste packaging paper, sanitary landfill, Ecoinvent, 0.013 kg
4. Exported Energy: Electricity, Ecoinvent, 0.022 MJ
5. Exported Energy: Electricity, Ecoinvent, 0.004 MJ
6. Exported Energy: Electricity, Ecoinvent, 0.28 MJ
7. Exported Energy: Thermal, Ecoinvent, 0.032 MJ
8. Exported Energy: Thermal, Ecoinvent, 0.006 MJ
9. Exported Energy: Thermal, Ecoinvent, 0.39 MJ
10. Sorting and pressing of iron scrap, Ecoinvent, Materials for recycling, 0.48 kg
11. Treatment of scrap steel, inert material landfill, Ecoinvent, 0.32 kg
12. Treatment of waste polyethylene, for recycling, unsorted, sorting, Ecoinvent, Materials for recycling, 0.0 kg
13. Treatment of waste polyethylene, municipal incineration, Ecoinvent, 0.001 kg
14. Treatment of waste polyethylene, sanitary landfill, Ecoinvent, 0.004 kg
15. Treatment of waste polyethylene, sanitary landfill, Ecoinvent, 0.05 kg
16. Treatment of waste polyethylene, for recycling, unsorted, sorting, Ecoinvent, Materials for recycling, 0.068 kg
17. Treatment of waste polyvinylchloride, municipal incineration, Ecoinvent, 0.082 kg

Scenario information	Value
Scenario assumptions e.g. transportation	For recycling, cardboard packaging is transported over an average distance of 50 km, 100 km for PE packaging and 250 km for plastics, rubbers and metal alloys. For incineration, the respective transport distances are 50 km for cardboard packaging, 100km for PE packaging, and 150 km for plastics and rubbers. For landfill disposal, plastic, rubbers, cardboard packaging, and metal alloys are transported 50 km, whereas PE packaging is transported 100 km.

THIRD-PARTY VERIFICATION STATEMENT

EPD Hub declares that this EPD is verified in accordance with ISO 14025 by an independent, third-party verifier. The project report on the Life Cycle Assessment and the report(s) on features of environmental relevance are filed at EPD Hub. EPD Hub PCR and ECO Platform verification checklist are used.

EPD Hub is not able to identify any unjustified deviations from the PCR and EN 15804+A2 in the Environmental Product Declaration and its project report.

EPD Hub maintains its independence as a third-party body; it was not involved in the execution of the LCA or in the development of the declaration and has no conflicts of interest regarding this verification.

The company-specific data and upstream and downstream data have been examined as regards plausibility and consistency. The publisher is responsible for ensuring the factual integrity and legal compliance of this declaration.

The software used in creation of this LCA and EPD is verified by EPD Hub to conform to the procedural and methodological requirements outlined in ISO 14025:2010, ISO 14040/14044, EN 15804+A2, and EPD Hub Core Product Category Rules and General Program Instructions.

Verified tools

Tool verifier: Magaly Gonzalez Vazquez
Tool verification validity: 27 March 2025 - 26 March 2028

Yazan Badour, as authorized verifier acting for EPD HUB Limited
27.01.2026