

orasgroup

EPD®



Environmental Product Declaration

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

Accessories group II

EPD of multiple products, based on worst-case results
Products included are listed in Appendix 1.

from

Oras Group

Programme:

The International EPD® System, www.environdec.com

Programme 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) | <p>CEN standard EN 15804 serves as the Core Product Category Rules (PCR)</p> <p>Product Category Rules (PCR): Construction products, 2019:14, version 1.3.4, UN CPC 42911 - Sinks, washbasins, baths and other sanitary ware and parts thereof, of iron, steel, copper or aluminium.</p> <p>PCR review was conducted by: The Technical Committee of the International EPD® System. Chair of the PCR review: Claudia A. Peña. The review panel may be contacted via info@environdec.com.</p> |
| Life Cycle Assessment (LCA) | <p>LCA accountability: Anna Pietilä, Analyst. Organization: Ecobio Oy.</p> |
| Third-party verification | <p>Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:</p> <p><input checked="" type="checkbox"/> EPD verification by individual verifier</p> <p>Third-party verifier: Hannu Karppi, Ramboll Finland Oy</p>  <p>Approved by: The International EPD® System</p> |
| <p>Procedure for follow-up of data during EPD validity involves third party verifier: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | |

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 | Oras Group |
| Contact | Phone: +358 2 83 161 Email: info@orasgroup.com www.orasgroup.com |
| Description of the organisation | <p>Oras Group is a significant European provider of sanitary fittings: the market leader in the Nordics and a leading company in Continental Europe. The company's mission is to create the smartest and most sustainable water experiences for everyone, and its vision is to become the Perfect Flow Company. The Group has two strong brands, Oras and Hansa. Oras Group is owned by Oras Invest, a family company, and an industrial owner.</p> <p>The domicile of Oras Ltd, the parent company of the Group, is located in Rauma, Finland, and the Group has three manufacturing sites: Kralovice (Czech Republic), Olesno (Poland) and Rauma (Finland). The Group operates with its own staff in 15 markets. The Group operates with its own staff in 15 markets. Oras Group's net sales were 243.9 million euros in 2022 and at the end of the period the company employed 1271 people.</p> |
| Product-related or management system-related certifications | Designation according to standard EN 1112 (hand shower) and EN 1113 (shower hose) |
| Management system related certifications | ISO 9001:2015 ISO14001:2015 ISO 45001: 2018 ISO 50001:2018 |
| Name and location of production sites | Oras Group Rauma production site Isometsäntie 2, FI 26101 Rauma, Finland Oras Group Olesno production site Ul. Leśna 2, PL 46-300 Olesno, Poland |

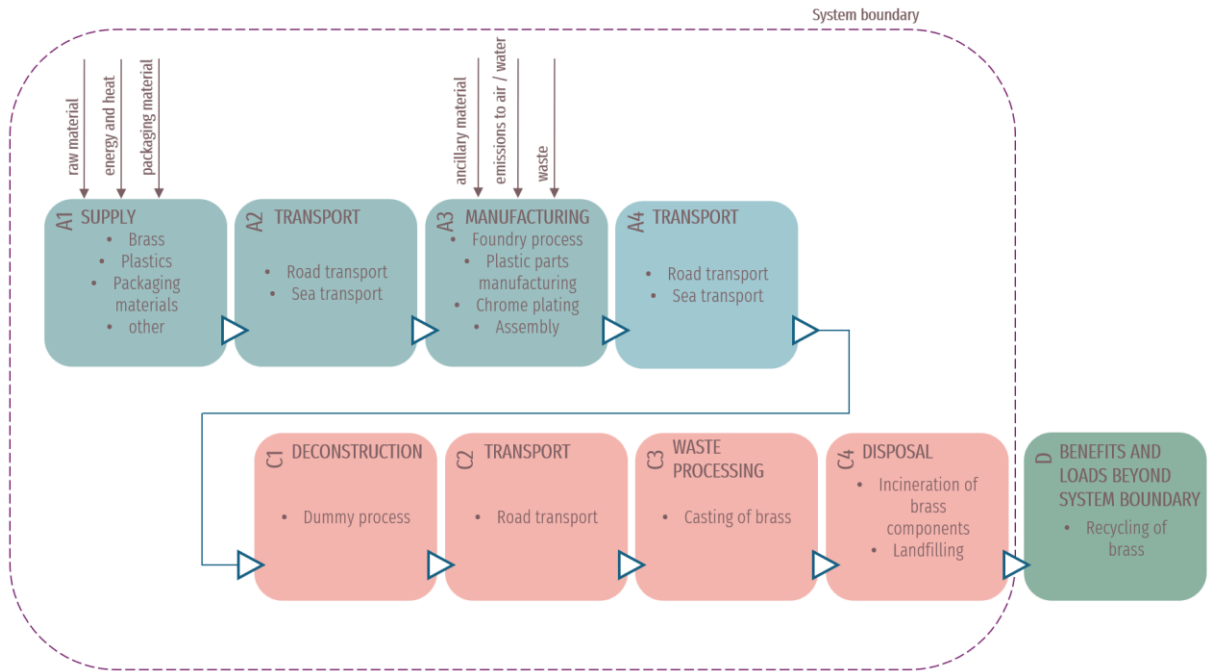
Product information

| | |
|------------------------------|---|
| Product name | Accessories group II |
| Product group identification | Accessories, e.g. shower hose or various types of brackets for use with sanitary fittings according to EN 1112 and EN 1113. The product group |
| Product group description | Oras Group products are manufactured in our own European factories by focusing into sustainable energy sources, highly efficient processes and minimized material usage and waste. The threshold value for the share of brass in product declaration is 0-50% |
| UN CPC code | 42911 - Sinks, washbasins, baths and other sanitary ware and parts thereof, of iron, steel, copper or aluminium. |
| Geographical scope | Europe |

LCA information

| | |
|----------------------------------|---|
| Functional unit / declared unit | 1 kg of accessory product |
| EPD of multiple products | In this EPD, the information and LCA results of three (3) similar products are presented. The products are presented in the Appendix I and in the LCA report related to this EPD. Since the declared environmental impact indicator results, aggregated over all included modules A-C, differ by more than 10% between any of the included products, for each indicator, the highest results are declared. I.e., the results of a “worst-case product” are presented. |
| Reference service life | The reference service life for accessories is 10 years The technical service life for accessories is 15 years |
| Time representativeness | The data was collected covering production year 2020, which is considered to represent average production year for accessory products. Data of electricity sources of electricity consumed in the manufacturing is from 2022. The sales volumes of the reference products are from 2022. The material declarations used as a basis for modelling the raw material supply are compiled in 2024. |
| Databases and LCA software | Ecoinvent 3.10 and SimaPro (Version 9.5.0.2). |
| Description of system boundaries | Cradle to gate with options, modules C1-C4, module D and with optional modules (A1-A3 + C + D and additional modules). The additional module is A4. |

System diagram



| | |
|-------------------------------|--|
| LCA practitioner | Ecobio Oy, www.ecobio.fi |
| Allocation | The allocation of energy and material flows is determined based on the production volumes of the main products, as well as any co-products and other products manufactured within the same facilities. No co-product allocation was applied. |
| Electricity used in module A3 | In Rauma, the specific electricity mix is 100 % based on hydropower. GWP-GHG impact of the used electricity mix is 5,4 g CO ₂ -eq/kWh.* The Polish residual electricity mix contains biomass 2,6 %, hydropower 0,98 %, wind 2,9 %, solar 1,5 %, coal 70,8 %, lignite 0,2 %, natural gas 14,7 %, oil 0,12 % and nuclear 4 %. GWP-GHG impact of the used electricity mix is 799 g CO ₂ -eq/kWh* |
| Cut-off rule | 1% cut-off rule was applied for input flows in the inventory. Environmental impacts of infrastructure, facilities (capital goods), transportation of employees required for and during production are excluded along the whole life cycle. |

* The information provided regarding electricity production is based on data from a specific collection period described on page 4. As such, it may not reflect the current electricity mix or greenhouse gas impact.

Modules declared

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

| | 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 | MND | MND | MND | MND | MND | MND | MND | MND | x | x | x | x | x | |
| Geography | EU27 | EU27 | EU27 | EU27 | - | - | - | - | - | - | - | - | EU27 | EU27 | EU27 | EU27 | EU27 | |
| Specific data used | 5 % | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Variation – products | < 10 % | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Variation – sites | Only one production site | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - |

Modules explained

| LCA Modules | |
|---|--|
| A1 Raw material supply This module contains the supply of raw materials including brass, stainless steel, plastics, rubbers and other materials in smaller quantities. | C1 De-construction This module is assumed to not cause environmental impacts as the de-construction of accessory can be done with manual labour and does not require external energy sources. |
| A2 Transportation This module contains the transportation of raw materials and prefabricated components from suppliers to Oras Group's production facilities. Average transportation route covering all the relevant raw materials was developed as there is wide range of possible supply locations even for single raw materials and components. Transportation takes place by road and sea. | C2 Transport This module contains the transportation of product for waste processing to nearest waste processing facility. Transportation is done by road and the distance is assumed to be 50 km. |
| A3 Manufacturing This module contains the relevant production processes for accessories. The most relevant is production of plastic parts and chrome-plating of plastic and brass part, casting of brass components as the brass components are precasted by suppliers before arriving to assembly. Treatment of waste and wastewater are also included. The used electricity mix for manufacturing stage is stated on chapter "LCA Information". | C3 Waste processing This module contains the waste processing related to material recycling of brass. It is assumed that 90 % of the brass is headed for material recycling process, which includes casting of brass into brass ingots. |
| A4 Transport This module contains the transportation of the final product to warehouses from where further distribution takes place. The scenario does not include transportation to construction site. | C4 Disposal This module contains final disposal of materials that are not headed for material or energy recovery. Stainless steel, plastic components, rubber components, packaging materials of the final product and 10 % of brass are assumed to be headed for incineration without energy recovery. Other components in smaller quantities are assumed to be headed to landfill. |
| | D Benefits and loads beyond system boundary This module contains the benefits related to material recycling of steel or energy recovery of ABS. Recycled steel is assumed to substitute virgin steel production from the market and energy recovery of ABS is assumed to produce energy and substitute fossil energy resources in energy production market. |

Content information

The content declaration lists the lowest amounts of recycled and biogenic content in the products and packaging, the most hazardous substances in any of the products, and the average content for all other components.

| Product components | Weight, kg | Post-consumer material, weight-% | Biogenic material, weight-% of product | Biogenic material, kg C/declared unit |
|----------------------------------|---------------|----------------------------------|--|---------------------------------------|
| Acrylonitrile butadiene styrene | 0,1667 | 0 % | 0 % | 0 % |
| Brass | 0,1215 | 0 % | 0 % | 0 % |
| Chromium | 0,0001 | 0 % | 0 % | 0 % |
| Copper | 0,0005 | 0 % | 0 % | 0 % |
| Ethylene propylene diene monomer | 0,0059 | 0 % | 0 % | 0 % |
| Nickel | 0,0004 | 0 % | 0 % | 0 % |
| Other | 0,0168 | 0 % | 0 % | 0 % |
| Polyamide | 0,0076 | 0 % | 0 % | 0 % |
| Polyoxymethylene | 0,1308 | 0 % | 0 % | 0 % |
| Stainless steel | 0,5500 | 0 % | 0 % | 0 % |
| TOTAL | 1 | 0 % | 0 % | 0 % |
| Packaging materials | Weight, kg | Weight-% (versus the product) | Biogenic material, kg C/declared unit | |
| Carton | 0,0036 | 3 % | 0,0303 | |
| LLDPE | 0,0018 | 2 % | 0,0151 | |
| Paper | 0,0014 | 1 % | 0,0119 | |
| PE | 0,0063 | 5 % | 0,0533 | |
| TOTAL | 0,0095 | 8 % | 0,0803 | |

The products do not contain substances which exceed the limits for registration with the European Chemicals Agency regarding the “Candidate List of Substances of Very High Concern for authorization”.

Environmental Information

Potential environmental impact – mandatory indicators according to EN 15804 and EF 3.1.

| Results per 1 kg of accessory product | | | | | | | | | | | |
|---------------------------------------|---|----------------------|----------------------|----------------------|----------------------|----------------------|----|-----------------------|-----------------------|-----------------------|-----------------------|
| Indicator | Unit | A1 | A2 | A3 | Tot. A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| GWP-fossil | kg CO ₂ eq. | 4,8*10 ⁰ | 2,8*10 ⁻¹ | 1,6*10 ⁻¹ | 5,3*10 ⁰ | 3,0*10 ⁻¹ | 0 | 1,2*10 ⁻² | 1,1*10 ⁰ | 4,2*10 ⁻² | 2,1*10 ⁻¹ |
| GWP-biogenic | kg CO ₂ eq. | 4,6*10 ⁻³ | 4,8*10 ⁻⁵ | 1,3*10 ⁻¹ | 1,4*10 ⁻¹ | 5,3*10 ⁻⁵ | 0 | 0 | 2,2*10 ⁻⁶ | 7,3*10 ⁻⁶ | 1,3*10 ⁻³ |
| GWP - luluc | kg CO ₂ eq. | 4,5*10 ⁻³ | 1,1*10 ⁻⁴ | 5,3*10 ⁻⁵ | 4,6*10 ⁻³ | 1,0*10 ⁻⁴ | 0 | 3,8*10 ⁻⁶ | 2,8*10 ⁻⁶ | 2,3*10 ⁻⁶ | -1,5*10 ⁻⁴ |
| GWP - total | kg CO ₂ eq. | 4,8*10 ⁰ | 2,8*10 ⁻¹ | 2,9*10 ⁻¹ | 5,4*10 ⁰ | 3,0*10 ⁻¹ | 0 | 1,2*10 ⁻² | 1,1*10 ⁰ | 4,2*10 ⁻² | 2,1*10 ⁻¹ |
| ODP | kg CFC 11 eq. | 5,6*10 ⁻⁸ | 5,2*10 ⁻⁹ | 5,8*10 ⁻⁹ | 6,7*10 ⁻⁸ | 5,8*10 ⁻⁹ | 0 | 2,4*10 ⁻¹⁰ | 1,3*10 ⁻¹⁰ | 1,0*10 ⁻¹⁰ | -2,4*10 ⁻⁹ |
| AP | mol H ⁺ eq. | 2,5*10 ⁻² | 2,5*10 ⁻³ | 4,2*10 ⁻⁴ | 2,8*10 ⁻² | 2,3*10 ⁻³ | 0 | 3,6*10 ⁻⁵ | 1,4*10 ⁻⁴ | 2,8*10 ⁻⁵ | -1,9*10 ⁻³ |
| EP-freshwater | kg P eq. | 1,9*10 ⁻⁴ | 2,0*10 ⁻⁶ | 1,4*10 ⁻⁵ | 2,1*10 ⁻⁴ | 2,3*10 ⁻⁶ | 0 | 9,0*10 ⁻⁸ | 1,3*10 ⁻⁷ | 4,9*10 ⁻⁸ | -4,4*10 ⁻⁵ |
| EP-marine | kg N eq. | 4,2*10 ⁻³ | 6,7*10 ⁻⁴ | 8,2*10 ⁻⁵ | 5,0*10 ⁻³ | 6,2*10 ⁻⁴ | 0 | 1,2*10 ⁻⁵ | 6,5*10 ⁻⁵ | 1,4*10 ⁻⁵ | -4,1*10 ⁻⁴ |
| EP-terrestrial | mol N eq. | 4,8*10 ⁻² | 7,4*10 ⁻³ | 9,0*10 ⁻⁴ | 5,6*10 ⁻² | 6,9*10 ⁻³ | 0 | 1,3*10 ⁻⁴ | 7,2*10 ⁻⁴ | 1,1*10 ⁻⁴ | -4,5*10 ⁻³ |
| POCP | kg NMVO C eq. | 1,5*10 ⁻² | 2,4*10 ⁻³ | 3,5*10 ⁻⁴ | 1,8*10 ⁻² | 2,1*10 ⁻³ | 0 | 5,7*10 ⁻⁵ | 1,8*10 ⁻⁴ | 5,0*10 ⁻⁵ | -1,5*10 ⁻³ |
| ADP-minerals& metals* | kg Sb eq. | 1,1*10 ⁻⁴ | 7,7*10 ⁻⁷ | 7,7*10 ⁻⁸ | 1,1*10 ⁻⁴ | 9,3*10 ⁻⁷ | 0 | 3,8*10 ⁻⁸ | 2,2*10 ⁻⁸ | 8,6*10 ⁻⁹ | -1,6*10 ⁻⁷ |
| ADP-fossil* | MJ | 9,1*10 ¹ | 3,9*10 ⁰ | 2,4*10 ⁰ | 9,8*10 ¹ | 4,2*10 ⁰ | 0 | 1,7*10 ⁻¹ | 1,1*10 ⁻¹ | 8,8*10 ⁻² | -4,8*10 ⁰ |
| WDP | m ³ | 2,0*10 ⁰ | 2,0*10 ⁻² | 6,9*10 ⁻² | 2,0*10 ⁰ | 2,3*10 ⁻² | 0 | 9,4*10 ⁻⁴ | 8,4*10 ⁻³ | 4,8*10 ⁻⁴ | -5,1*10 ⁻² |
| 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.*

Potential environmental impact – additional mandatory and voluntary indicators, based on EF 3.1.

| Results per 1 kg of accessory product | | | | | | | | | | | |
|---------------------------------------|------------|---------------------|----------------------|----------------------|---------------------|----------------------|----|----------------------|---------------------|----------------------|----------------------|
| Indicator | Unit | A1 | A2 | A3 | Tot. A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| GWP-GHG1 | kg CO2 eq. | 4,9*10 ⁰ | 2,9*10 ⁻¹ | 1,6*10 ⁻¹ | 5,3*10 ⁰ | 3,0*10 ⁻¹ | 0 | 1,2*10 ⁻² | 1,1*10 ⁰ | 4,2*10 ⁻² | 2,1*10 ⁻¹ |

Use of resources

| Results per 1 kg of accessory product | | | | | | | | | | | |
|---------------------------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|----|----------------------|----------------------|----------------------|-----------------------|
| Indicator | Unit | A1 | A2 | A3 | Tot. A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| PERE | MJ | 1,1*10 ¹ | 5,8*10 ⁻² | 3,6*10 ⁻¹ | 1,2*10 ¹ | 6,9*10 ⁻² | 0 | 3,2*10 ⁻³ | 2,4*10 ⁻³ | 1,3*10 ⁻³ | -4,9*10 ⁻¹ |
| PERM | MJ | 1,1*10 ⁻³ | 0 | 0 | 1,1*10 ⁻³ | 0 | 0 | 0 | 0 | 0 | 0 |
| PERT | MJ | 1,1*10 ¹ | 5,8*10 ⁻² | 3,6*10 ⁻¹ | 1,2*10 ¹ | 6,9*10 ⁻² | 0 | 3,2*10 ⁻³ | 2,4*10 ⁻³ | 1,3*10 ⁻³ | -4,9*10 ⁻¹ |
| PENRE | MJ | 9,9*10 ¹ | 4,1*10 ⁰ | 2,6*10 ⁰ | 1,1*10 ² | 4,4*10 ⁰ | 0 | 1,8*10 ⁻¹ | 1,1*10 ⁻¹ | 9,3*10 ⁻² | -5,1*10 ⁰ |
| PENRM | MJ. | 3,1*10 ⁻² | 0 | 0 | 3,1*10 ⁻² | 0 | 0 | 0 | 0 | 0 | 0 |
| PENRT | MJ | 9,9*10 ¹ | 4,1*10 ⁰ | 2,6*10 ⁰ | 1,1*10 ² | 4,4*10 ⁰ | 0 | 1,8*10 ⁻¹ | 1,1*10 ⁻¹ | 9,3*10 ⁻² | -5,1*10 ⁰ |
| SM | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RSF | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NRSF | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FW | m3 | 4,8*10 ⁻² | 4,8*10 ⁻⁴ | 1,7*10 ⁻³ | 5,0*10 ⁻² | 5,6*10 ⁻⁴ | 0 | 2,3*10 ⁻⁵ | 2,0*10 ⁻⁴ | 1,1*10 ⁻⁵ | -2,8*10 ⁻³ |
| 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 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.

Waste production and output flows

Waste production

| Results per 1 kg of accessory product | | | | | | | | | | | |
|---------------------------------------|------|---------------------|---------------------|---------------------|---------------------|---------------------|----|---------------------|---------------------|---------------------|----------------------|
| Indicator | Unit | A1 | A2 | A3 | Tot. A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| Hazardous waste disposed | kg | $2,2 \cdot 10^{-1}$ | 0 | $1,9 \cdot 10^{-7}$ | $2,2 \cdot 10^{-1}$ | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-hazardous waste disposed | kg | $3,6 \cdot 10^{-1}$ | $1,1 \cdot 10^{-4}$ | $1,2 \cdot 10^{-3}$ | $3,6 \cdot 10^{-1}$ | $9,7 \cdot 10^{-5}$ | 0 | $1,3 \cdot 10^{-6}$ | $8,6 \cdot 10^{-7}$ | $1,5 \cdot 10^{-6}$ | $-7,4 \cdot 10^{-5}$ |
| Radioactive waste disposed | kg | $6,0 \cdot 10^{-5}$ | 0 | $1,1 \cdot 10^{-7}$ | $6,0 \cdot 10^{-5}$ | 0 | 0 | 0 | 0 | 0 | 0 |

Output flows

| Results per 1 kg of accessory product | | | | | | | | | | | |
|---------------------------------------|------|----|----|----|------------|----|----|----|---------------------|---------------------|---|
| Indicator | Unit | A1 | A2 | A3 | Tot. A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| Components for re-use | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Material for recycling | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $1,9 \cdot 10^{-1}$ | 0 | 0 |
| Materials for energy recovery | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $6,2 \cdot 10^{-3}$ | 0 |
| Exported energy, electricity | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Exported energy, thermal | MJ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Information on biogenic carbon content

| Results per declared unit | | |
|--------------------------------------|------|----------|
| BIOGENIC CARBON CONTENT | Unit | QUANTITY |
| Biogenic carbon content in product | kg C | 0,0000 |
| Biogenic carbon content in packaging | kg C | 0,0857 |

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

Differences versus previous versions

This is the first version of the EPD so there are no differences versus previous versions of the EPD.

References

Disaggregated final energy consumption in households – Energy use – Water heating. Eurostat. 2022.
Ecobio LCA report – Bathroom products and technical valves. Oras Group. 2025.
General Programme Instructions of the International EPD® System. Version 5.0.1.
MEErP Preparatory Study on Taps and Showers. European Commission. 2014.
PCR 2019:14. Construction products. Version 1.3.4
Taps & showers technical criteria. Unified Water Label. 2020.



Included products

| | |
|-----------|------------------------------|
| 201078 | Long lever |
| 59914633 | Long lever |
| 272100-80 | Remote valve, 3 V, Bluetooth |
| 272100-81 | Remote valve, 3 V, Bluetooth |
| 44450100 | Hand shower holder |
| 251050 | Hand shower holder, Apollo |
| 44440100 | Hand shower holder |
| 272500 | Hand shower holder |
| 126705-11 | Side brush |
| 201010 | Handle |
| 01880083 | Lever, L=93 mm |
| 167051 | Cover plate, D70/G1/2 |
| 102003 | Cover flange |
| 251500 | Wall bracket |
| 251500-11 | Wall bracket |
| 251500-33 | Wall bracket |
| 253100 | Wall bracket |
| 253100-11 | Wall bracket |
| 159982 | Assist handle |
| 204302/2 | Adapter, d 12/15 mm |
| 272100-33 | Remote valve, 3 V, Bluetooth |
| 253060 | Soap holder |
| 552051 | Pop-up waste |