

# Environmental Product Declaration



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

**Washbasin mixer Azur, a-collection**

from

**Ahlsell AB**




|                         |                                           |
|-------------------------|-------------------------------------------|
| Programme               | EPD International AB                      |
| Programme operator      | The International EPD <sup>®</sup> System |
| EPD registration number | S-P-10613                                 |
| Publication date        | 2023-10-06                                |
| Revision date           | 2023-12-04                                |
| Valid until             | 2028-09-20                                |

*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 |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| Programme             | The International EPD® System                                       |
| Address:              | EPD International AB<br>Box 210 60<br>SE-100 31 Stockholm<br>Sweden |
| Website               | www.environdec.com                                                  |
| E-mail                | info@environdec.com                                                 |

| Accountabilities for PCR, LCA and independent, third-party verification                                                                                |                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Category Rules (PCR)                                                                                                                           | Product Category Rules (PCR): Construction products, 2019:14, Version 1.3.1                                                                                                                                                                                                                                                                       |
| Life Cycle Assessment (LCA)                                                                                                                            | Carbonzero AB                                                                                                                                                                                                                                                                                                                                     |
| Third-party verification:                                                                                                                              | <p>Independent third-party verification of the declaration and data, according to ISO 14025:2006:</p> <p><input checked="" type="checkbox"/> EPD process certification</p> <p>Vladimír Kocí, LCA Studio</p>  <p>Approved by: The International EPD® System</p> |
| 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.

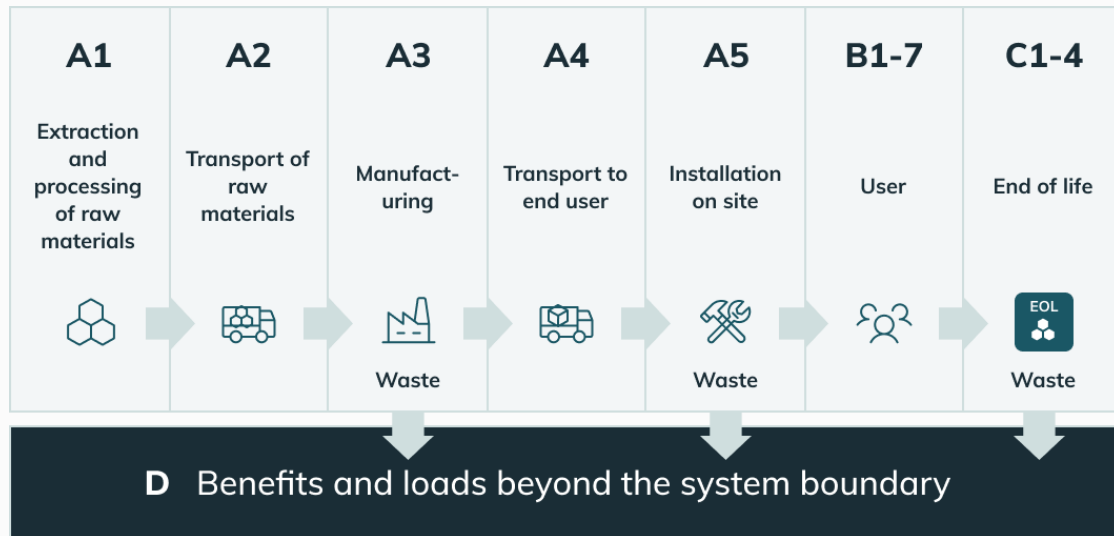
EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products 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                                             | Ahlsell AB                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Contact                                                      | Andrea Wästlund                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Description of the organisation                              | Ahlsell is present where people reside, work, and live their lives. Ahlsell is currently the Nordic region's leading community-building distributor of installation products, tools, and supplies for installation, construction, real estate management, industrial and power companies, and the public sector. With around 7,500 employees, 300 stores, e-commerce, and four central warehouses, we are working daily to achieve our vision of building a more sustainable society. |
| Product-related or management system-related certifications: | ISO 9001 & ISO 14001                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Name and location of production site(s):                     | <b>Name of plant:</b> Manufacturing plant<br><b>Location:</b> Sweden                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Product information  |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name(s)      | AZUR I ECO, WITH POP-UP, BRUSHED ROSEGOLD                                                                                                                                                                                                                                                                                                                                                                            |
| Product description: | Washbasin mixer Azur with pop-up valve. Colours: Chrome, Black, Gold and Brushed Gold.<br>The representative product was chosen because it had the highest GWP total impacts per kilogram of product amongst the included list of products. Therefore, this study represents the worst-case scenario, and products are grouped together as the difference in material composition per kilogram of product is < 10 %. |
| RSL                  | 16 years                                                                                                                                                                                                                                                                                                                                                                                                             |
| UN CPC code          | 42911 - Sinks, wash-basins, baths and other sanitary ware and parts thereof, of iron, steel, copper or aluminium                                                                                                                                                                                                                                                                                                     |

| LCA information                   |                                                                                                         |
|-----------------------------------|---------------------------------------------------------------------------------------------------------|
| Functional unit / declared unit   | 1 kg of Washbasin Mixer                                                                                 |
| Time representativeness           | Data obtained refer to the year 2022                                                                    |
| System Boundary                   | The system boundaries are set to be "cradle-to-gate" with modules A4, B7, C1-C4, and D for end-of-life. |
| Database(s) and LCA software used | Eando X version 1.01                                                                                    |

System diagram



|       |                               |                                                                                                                                                                                                                                                                                           |
|-------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A1    | Raw material supply           | This module considers the extraction and processing of all raw materials, energy, and transportation which occur upstream to the studied manufacturing process, including packaging material.                                                                                             |
| A2    | Transport to the manufacturer | The raw materials are transported to the manufacturing site.                                                                                                                                                                                                                              |
| A3    | Manufacturing                 | This module includes all resources used to produce and waste produced. This also includes additives and packaging material.                                                                                                                                                               |
| A4    | Transport                     | Transportation from the manufacturing site to distribution centre and then from the distribution centre to the building site is included.                                                                                                                                                 |
|       | Transport Scenario            | Truck: 200km                                                                                                                                                                                                                                                                              |
| A5    | Construction installation     | This stage is not included in this EPD, although the impact is expected to be negligible.                                                                                                                                                                                                 |
| B1-B7 | Use stage                     | B7: This module contains the production, heating, and wastewater treatment of tap water related to the use of washbasin faucets. The scenario for operational water use is described more precisely in the chapter "Additional Information". B1-B6 stages are not included in this study. |
| C1    | Deconstruction/Demolition     | This stage includes the de-construction and/or demolition of the product. Impacts from this stage were considered negligible as it is done manually and does not require power tools.                                                                                                     |
| C2    | Transport                     | This stage represents the transport distance to the waste processing facility.                                                                                                                                                                                                            |
| C3    | Waste processing              | This stage includes any waste treatment needed.                                                                                                                                                                                                                                           |
|       | EOL Scenario                  | Landfill 10.89%. Incineration 8%. Recycling 81.11%.                                                                                                                                                                                                                                       |
| C4    | Final disposal                | This includes any material that is landfilled.                                                                                                                                                                                                                                            |
| D     | Benefits                      | Emission credits obtained from energy recovery and/or recycling materials                                                                                                                                                                                                                 |

**Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):**

|                    | 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 |                                         |
|                    | A1                                         | A2        | A3            | A4             | A5       | B1        | B2          | B3     | B4          | B5            | B6                     | B7                    | C1                         | C2        | C3               | C4       | D                                       |
| Declared           | X                                          | X         | X             | X              | ND       | ND        | ND          | ND     | ND          | ND            | ND                     | X                     | X                          | X         | X                | X        | X                                       |
| Geography          | CN                                         | GL        | SE            | SE             | -        | -         | -           | -      | -           | -             | -                      | SE                    | SE                         | SE        | SE               | SE       | SE                                      |
| Specific data used | Factory supplied specific data for A1 - A3 |           |               | -              | -        | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                       |
| Variation-Products | < 10 %                                     |           |               | -              | -        | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                       |
| Variation-Sites    | 0 %                                        |           |               | -              | -        | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                                       |

## Content Information

| Product Components | Weight, kg | Post-consumer material, weight-% | Biogenic material, weight-% and kg C/kg |
|--------------------|------------|----------------------------------|-----------------------------------------|
| Stone              | 0.017      | 0.000                            | 0.000                                   |
| Plastic            | 0.059      | 0.000                            | 0.000                                   |
| Rubber             | 0.013      | 0.000                            | 0.000                                   |
| Metal              | 0.901      | 0.000                            | 0.000                                   |
| Polymer            | 0.002      | 0.000                            | 0.000                                   |
| Polymer            | 0.008      | 0.000                            | 0.000                                   |
| Total              | 1.000      | 0.000                            | 0.000                                   |

| Packaging Materials | Weight, kg | Weight-% (versus the product) | Weight biogenic carbon, kg C/kg |
|---------------------|------------|-------------------------------|---------------------------------|
| Carton              | 0.177      | 17.750                        | 0.079                           |
| Total               | 0.177      | 17.750                        | 0.079                           |

| Dangerous substances from the candidate list of SVHC for Authorisation | EC No. | CAS No. | Weight-% per functional or declared unit |
|------------------------------------------------------------------------|--------|---------|------------------------------------------|
|                                                                        |        |         |                                          |

At the date of issue of this declaration, there is no "Substance of Very High Concern" (SVHC) in concentration above 0.1% by weight, and neither does the packaging, following the European REACH regulation (Registration, Evaluation, Authorization and Restriction of Chemicals)

# Environmental Information

Potential environmental impact – indicators according to EN 15804+A2

| Results per functional unit: 1 kg |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |          |         |         |          |          |          |          |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|---------|---------|----------|----------|----------|----------|
| Indicator                         | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1 - A3 | A4       | B7      | C1      | C2       | C3       | C4       | D        |
| GWP-total                         | kg CO2 eq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6.11e+0 | 1.78e-2  | 1.62e+2 | 0.00e+0 | 7.14e-3  | -6.67e-1 | 4.43e-3  | -3.91e+0 |
| GWP-fossil                        | kg CO2 eq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5.81e+0 | 1.71e-2  | 1.61e+2 | 0.00e+0 | 6.84e-3  | 1.56e-1  | 4.49e-3  | -3.87e+0 |
| GWP-biogenic                      | kg CO2 eq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.90e-1 | 7.30e-4  | 5.32e-1 | 0.00e+0 | 2.92e-4  | -8.23e-1 | -6.17e-5 | -2.35e-2 |
| GWP-luluc                         | kg CO2 eq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9.69e-3 | 4.72e-7  | 5.40e-2 | 0.00e+0 | 1.89e-7  | 1.20e-5  | 5.16e-6  | -7.48e-3 |
| ODP                               | kg CFC-11 eq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4.73e-8 | 1.03e-15 | 2.99e-9 | 0.00e+0 | 4.13e-16 | 1.12e-13 | 7.66e-15 | -3.84e-8 |
| AP                                | mole H+ eq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.90e-1 | 1.47e-4  | 5.28e-1 | 0.00e+0 | 5.88e-5  | 3.50e-5  | 1.55e-5  | -2.32e-1 |
| EP-freshwater                     | kg P eq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.20e-2 | 2.20e-9  | 3.45e-3 | 0.00e+0 | 8.80e-10 | 3.29e-8  | 4.38e-9  | -1.78e-2 |
| EP-marine                         | kg N eq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.65e-2 | 7.32e-5  | 1.95e-1 | 0.00e+0 | 2.93e-5  | 1.14e-5  | 3.91e-6  | -1.27e-2 |
| EP-terrestrial                    | mole N eq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.18e-1 | 8.02e-4  | 1.69e+0 | 0.00e+0 | 3.21e-4  | 1.50e-4  | 4.30e-5  | -1.70e-1 |
| POCP                              | kg NMVOC eq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6.16e-2 | 1.38e-4  | 4.26e-1 | 0.00e+0 | 5.53e-5  | 3.23e-5  | 1.22e-5  | -4.80e-2 |
| ADP-minerals & metals             | kg Sb eq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4.00e-3 | 1.14e-10 | 9.31e-5 | 0.00e+0 | 4.56e-11 | 9.85e-10 | 1.28e-10 | -3.24e-3 |
| ADP-fossil                        | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8.34e+1 | 2.46e-1  | 1.73e+4 | 0.00e+0 | 9.84e-2  | 2.50e-1  | 6.67e-2  | -5.61e+1 |
| WDP                               | m3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5.58e+0 | 7.70e-5  | 1.35e+2 | 0.00e+0 | 3.08e-5  | 1.55e-2  | -2.63e-5 | -4.11e+0 |
| Acronyms                          | <p>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&amp;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</p> |         |          |         |         |          |          |          |          |

*\* 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*

## Use of resources

| Results per functional unit: 1 kg |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |         |         |         |         |         |         |          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|----------|
| Indicator                         | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1 - A3 | A4      | B7      | C1      | C2      | C3      | C4      | D        |
| PERE                              | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.84e+1 | 1.35e-3 | 1.57e+4 | 0.00e+0 | 5.41e-4 | 5.84e-2 | 6.27e-3 | -1.30e+1 |
| PERM                              | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0  |
| PERT                              | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9.60e+0 | 1.35e-3 | 1.57e+4 | 0.00e+0 | 5.41e-4 | 5.84e-2 | 6.27e-3 | -5.92e+0 |
| PENRE                             | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.86e+1 | 2.46e-1 | 1.73e+4 | 0.00e+0 | 9.84e-2 | 2.50e-1 | 6.67e-2 | -1.17e+1 |
| PENRM                             | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.41e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | -3.24e+0 |
| PENRT                             | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8.42e+1 | 2.46e-1 | 1.73e+4 | 0.00e+0 | 9.84e-2 | 2.50e-1 | 6.67e-2 | -5.68e+1 |
| SM                                | kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.78e-2 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | -3.06e-2 |
| RSF                               | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.43e+1 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | -2.78e+1 |
| NRSF                              | MJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0  |
| FW                                | m3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.33e-1 | 2.06e-6 | 2.27e+1 | 0.00e+0 | 8.24e-7 | 3.90e-4 | 1.66e-6 | -9.76e-2 |
| 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 |         |         |         |         |         |         |         |          |

\* 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.



## Additional voluntary indicators

| Results per functional unit: 1 kg |                                                                                  |         |         |         |         |         |         |         |          |
|-----------------------------------|----------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|----------|
| Indicator                         | Unit                                                                             | A1 - A3 | A4      | B7      | C1      | C2      | C3      | C4      | D        |
| GWP-GHG                           | kg CO2 eq                                                                        | 6.01e+0 | 1.75e-2 | 0.00e+0 | 0.00e+0 | 7.02e-3 | 1.56e-1 | 4.34e-3 | -3.85e+0 |
| EP                                | kg PO4 eq                                                                        | 7.37e-2 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 4.99e-6 | 1.38e-6 | -5.97e-2 |
| Acronyms                          | GWP-GHG global warming potential - greenhouse gases; EP eutrophication potential |         |         |         |         |         |         |         |          |

### Additional voluntary indicators

This indicator supports comparability with EPDs based on the previous version of EN 15804 (EN 15804:2012+A1:2013).

## Waste and output flows

| Results per functional unit: 1 kg |                                                                                              |         |          |          |         |          |          |          |          |
|-----------------------------------|----------------------------------------------------------------------------------------------|---------|----------|----------|---------|----------|----------|----------|----------|
| Indicator                         | Unit                                                                                         | A1 - A3 | A4       | B7       | C1      | C2       | C3       | C4       | D        |
| HWD                               | kg                                                                                           | 2.36e-6 | 6.12e-14 | -3.31e-6 | 0.00e+0 | 2.45e-14 | 8.57e-13 | 5.28e-12 | -1.87e-6 |
| NHWD                              | kg                                                                                           | 3.77e+0 | 9.34e-6  | 2.03e+1  | 0.00e+0 | 3.74e-6  | 6.68e-2  | 1.09e-1  | -3.04e+0 |
| RWD                               | kg                                                                                           | 7.27e-4 | 8.88e-8  | 5.93e+0  | 0.00e+0 | 3.55e-8  | 6.94e-6  | 7.75e-7  | -4.61e-4 |
| Acronyms                          | HW Hazardous waste disposed; NHW Non-hazardous waste disposed; RW Radioactive waste disposed |         |          |          |         |          |          |          |          |

## Output flows

| Results per functional unit: 1 kg |                                                                                                                                                     |         |         |         |         |         |         |         |          |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|----------|
| Indicator                         | Unit                                                                                                                                                | A1 - A3 | A4      | B7      | C1      | C2      | C3      | C4      | D        |
| CRU                               | kg                                                                                                                                                  | 3.43e+1 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | -2.78e+1 |
| MFR                               | kg                                                                                                                                                  | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0  |
| MER                               | kg                                                                                                                                                  | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0  |
| EEE                               | MJ                                                                                                                                                  | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 2.08e-1 | 0.00e+0 | 0.00e+0  |
| EET                               | MJ                                                                                                                                                  | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 3.78e-1 | 0.00e+0 | 0.00e+0  |
| Acronyms                          | CRU Components for reuse; MFR Materials for recycling; MER Materials for energy recovery; EEE Exported electric energy; ETE Exported thermal energy |         |         |         |         |         |         |         |          |

## Product Table

| Name                                        | Weight, kg | Unit |
|---------------------------------------------|------------|------|
| AZUR I ECO, WITH POP-UP, BRUSHED GOLD       | 1.820      | pc   |
| AZUR I ECO, WITH POP-UP, GOLD               | 1.760      | pc   |
| AZUR ECO I, WITH POP-UP, CHROME             | 1.820      | pc   |
| AZUR I ECO, WITH POP-UP, BRUSHED ROSEGOLD   | 1.760      | pc   |
| AZUR ECO I, WITH POP-UP, BLACK              | 1.820      | pc   |
| AZUR I, ECO WITH POP-UP, HIGH MODEL, CHROME | 2.270      | pc   |
| AZUR I, ECO WITH POP-UP, HIGH MODEL, BLACK  | 2.270      | pc   |
| AZUR II, ECO WITH POP-UP, CHROME            | 1.700      | pc   |
| AZUR III, ECO WITH POP-UP, BLACK            | 1.540      | pc   |
| AZUR III, ECO WITH POP-UP, CHROME           | 1.540      | pc   |
| AZUR IV, WITH POP-UP, CHROME                | 1.820      | pc   |

## Additional Information

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. It is advised not to use the results of modules A1-A3 (A1-A5 for services) without considering the results of module C.

The end-of-life reflects the Swedish market, where 1 % of ferrous metallic waste is landfilled, and 99 % recycled, a wastage of 10 % is considered during the recycling process. The other materials' EoL scenarios are as per SCB data for 2020. For the credit for recovered material (module D), EU datasets were used.

The scenario for module B7 "Operational water use" is based on the Unified Water Label (UWL), which is a product label developed by the European bathroom industry to demonstrate the water and energy efficiency of bathroom products. The technical criteria of UWL correlate with existing European and National standards while establishing harmonised calculation criteria for bathroom products.

The annual water consumption according to the parameters stated above is 2 555 l. It is assumed that all of the water consumption for the washbasin faucet is hot water. 66,94 kWh of energy is consumed annually for the heating of water. The scenario for operational water use covers 16 years which is the reference service life of washbasin faucets. The energy profile for water heating is based on Eurostat statistics describing disaggregated final energy consumption in households used for water heating in 2018 (Unified Water Label, 2020).

Data quality: All datasets used came from reputable databases Sphera Managed LCA Content (MLC) (formerly known as GaBi database) and Ecoinvent, with good technological representativeness. Therefore, it could be considered good.

Allocation: No co-product allocation has been applied since no co-products are generated, and therefore allocation has not been relevant.





Cut-off Criteria: The general rules for the exclusion of inputs and outputs follow the requirements in EN 15804+A2.

Revision information: Product names have been changed to English from Swedish in previous version. GWP Biogenic throughout the product life cycle was balanced to add to zero in C3 stage. Packaging carton was increased by 0,005 kg to 0,177 kg per functional unit. Total change in GWP total for product stage is 0,16 % whilst other environmental impacts remained the same.

## References

|                            |                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EPD International (2021)   | General Programme Instructions of the International EPD <sup>®</sup> System, version 4.0                                                                                                                                                      |
| EN 15804:2012+A2           | Sustainability of construction works – Environmental product declaration – Core rules for the product category of constructions products                                                                                                      |
| SCB (2023)                 | <a href="https://www.statistikdatabasen.scb.se/pxweb/en/ssd/START_MI_MI0305/MI0305T003/table/tableViewLayout1/">https://www.statistikdatabasen.scb.se/pxweb/en/ssd/START_MI_MI0305/MI0305T003/table/tableViewLayout1/</a> Accessed 2023-08-03 |
| ISO 14025:2006             | International Standard ISO 14025 – Environmental labels and declarations – Type III environmental declarations – Principles and procedures                                                                                                    |
| ISO 14040:2006             | International Standard ISO 14040: Environmental Management – Life cycle assessment – Principles and framework. Second edition 2006-07-01.                                                                                                     |
| ISO 14044:2006             | International Standard ISO 14044: Environmental Management – Life cycle assessment – Requirements and Guidelines.                                                                                                                             |
| PCR 2019:14                | PCR 2019:14. v1.3.1. Construction products (EN 15804: A2)                                                                                                                                                                                     |
| Unified Water Label (2020) | Taps & showers technical criteria. <a href="https://uwla.eu/wp-content/uploads/2021/02/2020-10-14-UWL-scheme-draft-ts.pdf">https://uwla.eu/wp-content/uploads/2021/02/2020-10-14-UWL-scheme-draft-ts.pdf</a>                                  |

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