# ENVIRONMENTAL PRODUCT DECLARATION

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

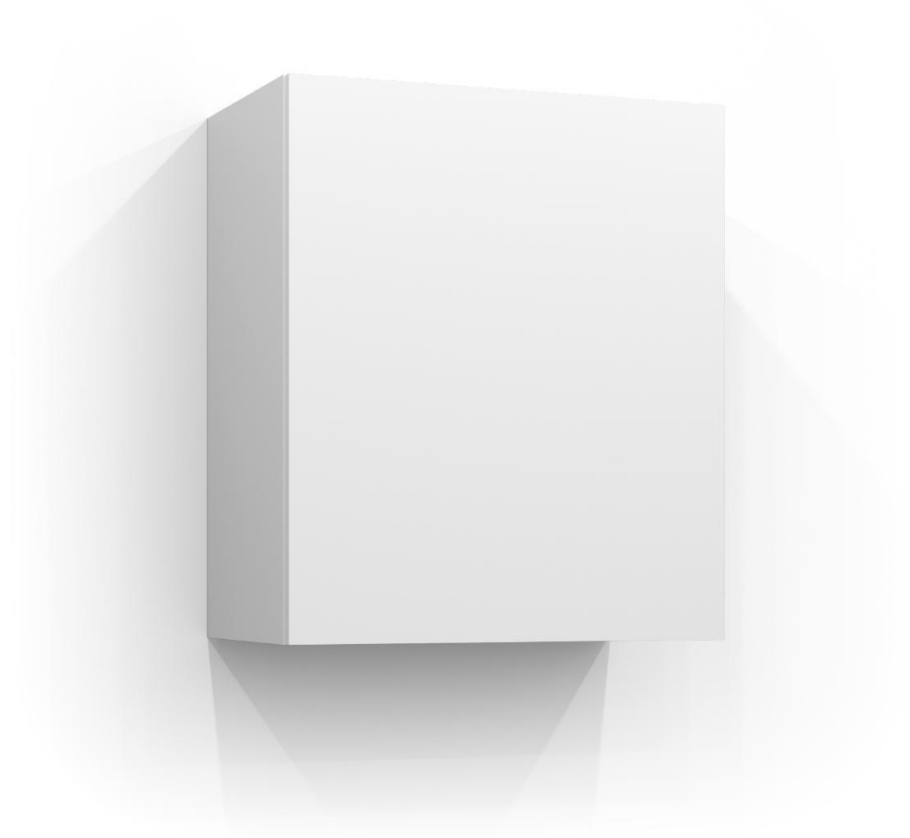
## Wall cabinet Washers & Dryers 70x60

from

**Svedbergs i Dalstorp AB**

| | |
|---|---|
| Programme: | The International EPD® System, www.environdec.com |
| Programme operator: | EPD International AB |
| EPD registration number: | S-P-10751 |
| Publication date: | 2023-11-29 |
| Valid until: | 2028-11-28 |

*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<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)** |
| CEN standard EN 15804 serves as the Core Product Category Rules (PCR) |
| Product category rules (PCR): *PCR 2019:14 VERSION 1.2.5 (2022-11-01), PCR 2019:14-c-PCR-021 Furniture (c-PCR to PCR 2019:14)* |
| PCR review was conducted by: *The Technical Committee of the International EPD® System. See www.environdec.com/TC for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact.* |
| **Life Cycle Assessment (LCA)** |
| LCA accountability: Oskar Frisk & Hans Svensson, Svedbergs i Dalstorp AB |
| **Third-party verification** |
| Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:<br><br>☒ EPD verification by individual verifier<br><br>Third party verifier: Daniel Böckin, Miljögiraff AB, daniel@miljogiraff.se<br><br>Approved by: The International EPD® System |
| Procedure for follow-up of data during EPD validity involves third party verifier:<br><br>☐ Yes ☒ No |

The EPD owner has the sole ownership, liability, and responsibility for the EPD.
EPDs within the same product category but from different programs 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 characterization 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: Svedbergs i Dalstorp AB

Contact: Hans Svensson
E-mail: hans.svensson@svedbergs.se

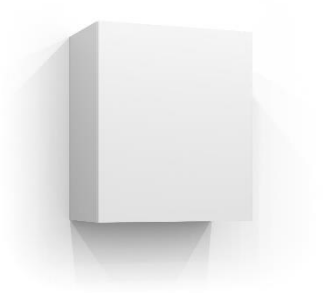
Description of the organization: Svedbergs is a publicly traded company that was founded in 1920 and has since 1962 produced quality products for bathrooms. Today it is one of the leading brands in the Nordic countries for bathroom furniture. The Svedbergs concept entails the whole bathroom, supplying for example furniture, showers, WC, bathtubs and more. The different ranges of products are sold to both professional and private customers. More than 75% of the production takes place in Dalstorp, Sweden, which provides benefits when it comes to flexibility, logistics, lead times and sustainability factors.

Product-related or management system-related certifications:
ISO-14001
ISO-9001

Name and location of production site:
Svedbergs i Dalstorp AB
Verkstadsvägen 1
514 63 Dalstorp

# Product information

Product name:
Wall cabinet Washers & Dryers 70x60 W/W



Product description:
Wall cabinet for the laundry room with white frame, two wooden shelves and reversible flat door. The wall cabinet has a height of 70 cm and you can choose between widths of 40, 50 and 60 cm. Depth 35 cm.

UN CPC code: 38140 (Other furniture n.e.c)

Geographical scope: Nordic countries

*The picture shows the product, 7270601-1H, Wall cabinet Washers & Dryers 70x60 W/W.*

Products included: This is an EPD for specifically for the product 7270601-1H, Wall cabinet Washers & Dryers 70x60 W/W.



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# LCA information

Functional unit / declared unit:
1 piece of product (19,79 kg)

The conversion factor needed to recalculate the results to per kg is therefore (1/19,79).

Expected service life: 20-40 years (depending on the usage of the product).

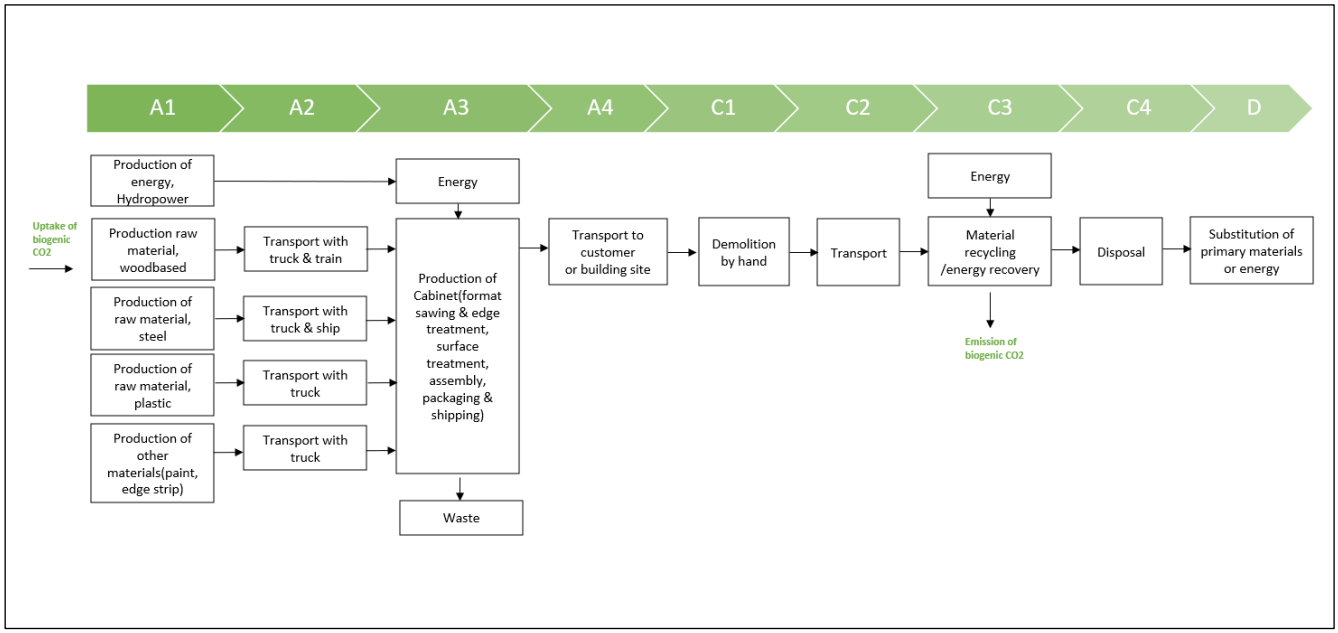
Time representativeness: 2022

Database(s) and LCA software used: Sphera database and ecoinvent. IVLs EPD Generator for TMF Kitchen & Bath version 1.0.0.197. Verification of the tool performed by Marcus Wendin, Miljögiraff AB.

Description of system boundaries: The EPD is a so-called Cradle to gate with options, modules C1–C4, module D and with optional modules (A1–A3 + C + D and additional modules). The additional modules are A4. Excluded life-cycle stages are A5, B1-B7. This is referred to a Type B EPD in the PCR.

The polluter pays principle is applied according to PCR. For waste management, this means that emissions that occur at material recycling facilities must be allocated to the next life cycle, if the next life cycle pays for the residual material. However, transport to the recycling facility is included. The life cycle begins with the extraction of raw materials used for the products, which defines the boundary with nature.

System diagram:




- Module A1: Production of raw materials.
- Module A2: Transportation of raw materials to Svedbergs factory.
- Module A3: Manufacturing.
- Module A4: Transport of product to customer or building site.
- Module C1: Demolition.
- Module C2: Transport to waste processing.
- Module C3: Waste processing.
- Module C4: Disposal.
- Module D: Benefits and loads beyond the system boundary.



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Allocation: Incoming energy, water and waste production in-house is allocated equally among all joint co-products through mass allocation.

Transportation: The transport included in this study is the transport of raw materials, products to customers and waste from the production site. The transport is mostly carried out through heavy trucks.

Energy utilities: Both electricity and heat are used at the factory. Electricity is based on hydropower. The heat applied is mainly from district heating.

Secondary energy: No secondary energy has been used.

Direct emissions from production: Direct emissions occur from the burning of fuels in the factory. As well as VOC emissions from painting.

Waste: Waste is generated from wastage in production as well as packaging from various products.

Scenario for module A4: The product is transported 444 km to customer by a 40-tonne truck.

Scenario for module C1: The product is assumed to be dismantled by hand, and therefore no energy is required for this step.

Scenario for module C2: Transport to waste management or landfill is carried out through a 2-tonne truck for 35 km. The low weight of the truck is based on the assumption that bathroom furniture is often brought to waste management facilities by households or craftsmen.

Scenario for module C3: Wooden parts are assumed to be chipped, incinerated and the energy recovered. Metal parts are assumed to be recycled.

Scenario for module C4: The remaining materials are assumed to be send for disposal on a landfill.

Scenario for module D: Wood: As applied in C3. All heat generated replaces district heat.

Content declaration: Specific content declaration hidden for confidentiality reasons.

Packaging: The packaging per piece of products is calculated based on yearly consumption of pallets and cardboard. The amounts of packaging used per piece has a low to insignificant effect on the product's environmental performance. Therefore, it's not included.



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

| | Product stage | | | Construction process stage | | Use stage | | | | | | | End of life stage | | | | Resource recovery stage |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Raw material supply | Transport | Manufacturing | Transport | Construction installation | Use | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery-Recycling-potential |
| **Module** | **A1** | **A2** | **A3** | **A4** | **A5** | **B1** | **B2** | **B3** | **B4** | **B5** | **B6** | **B7** | **C1** | **C2** | **C3** | **C4** | **D** |
| Modules declared | X | X | X | X | MND | MND | MND | MND | MND | MND | MND | MND | X | X | X | X | X |
| Geography | EU | EU | SE | Nordic countries (NC) | - | - | - | - | - | - | - | - | NC | NC | NC | NC | NC |
| Specific data used | 5,66% | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Variation – products | - | | | | | - | - | - | - | - | - | - | - | - | - | - | - |
| Variation – sites | - | | | | | - | - | - | - | - | - | - | - | - | - | - | - |



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## Content declaration

| Product components | Weight, kg | Post-consumer material, weight-% | Biogenic material, weight-% and kg C/kg |
|---|---|---|---|
| Fiberboard | 17-19 | 0% | 74% & 0,5kg C/kg* |
| Steel | 0,5-1 | 12,7%* | Non-biogenic material |
| ABS | 0,05-0,1 | 0% | Non-biogenic material |
| Paint | 0,01-0,05 | 0% | Non-biogenic material |
| | | | |
| Sum | | | |
| **Packaging materials** | **Weight, kg** | **Weight-% (versus the product)** | **Weight biogenic carbon, kg C/kg** |
| *Refer to LCA information | | | |
| | | | |
| | | | |
| Sum | | | |

**Worldsteel average*

**General carbon content for wood*

| Dangerous substances from the candidate list of SVHC for Authorisation | EC No. | CAS No. | Weight-% per functional or declared unit |
|---|---|---|---|
| None | | | |



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# Environmental performance

## Potential environmental impact – mandatory indicators according to EN15804

| Results per functional or declared unit | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **INDICATOR** | | **UNIT** | **A1-A3** | **A4** | **C1** | **C2** | **C3** | **C4** | **D** |
| Global warming potential (GWP) | Fossil | kg $CO_2$ eq. | 1,94E+01 | 5,62E-01 | 0,00E+00 | 1,11E-01 | 1,10E-01 | 1,66E-03 | -8,30E+00 |
| | Biogenic | kg $CO_2$ eq. | -5,39E+01 | 1,75E-03 | 0,00E+00 | 3,45E-04 | 5,39E+01 | -3,37E-05 | 0,00E+00 |
| | Land use and land use change | kg $CO_2$ eq. | 2,64E-02 | 3,14E-03 | 0,00E+00 | 6,19E-04 | 6,14E-04 | 6,06E-06 | -1,42E-04 |
| | TOTAL | kg $CO_2$ eq. | -3,45E+01 | 5,67E-01 | 0,00E+00 | 1,12E-01 | 5,40E+01 | 1,63E-03 | -8,30E+00 |
| Depletion potential of the stratospheric ozone layer (ODP) | | kg CFC 11 eq. | 1,21E-06 | 1,27E-08 | 0,00E+00 | 2,50E-09 | 2,48E-09 | 1,01E-11 | -5,18E-08 |
| Acidification potential (AP) | | mol H+ eq. | 9,67E-02 | 6,33E-03 | 0,00E+00 | 1,25E-03 | 1,24E-03 | 1,37E-05 | -1,75E-02 |
| Eutrophication potential (EP) | Freshwater | kg P eq. | 3,51E-03 | 2,91E-05 | 0,00E+00 | 5,73E-06 | 5,68E-06 | 2,52E-08 | -1,59E-05 |
| | Marine | kg N eq. | 3,33E-02 | 3,41E-03 | 0,00E+00 | 6,72E-04 | 6,66E-04 | 4,96E-06 | -2,65E-04 |
| | Terrestrial | Mole of N eq. | 3,22E-01 | 3,24E-02 | 0,00E+00 | 6,38E-03 | 6,33E-03 | 5,04E-05 | 3,37E-03 |
| Formation potential of tropospheric ozone (POCP) | | kg NMVOC eq. | 8,96E-02 | 4,42E-03 | 0,00E+00 | 8,72E-04 | 8,64E-04 | 1,03E-05 | -1,72E-03 |
| Abiotic depletion potential | Minerals and metals** | kg Sb eq. | 1,33E-04 | 3,03E-07 | 0,00E+00 | 5,97E-08 | 5,92E-08 | 3,56E-10 | -5,20E-07 |
| | Fossil resources** | MJ | 3,86E+02 | 8,56E+00 | 0,00E+00 | 1,69E+00 | 1,67E+00 | 2,29E-02 | -7,59E+01 |
| Water scarcity potential (WDP)** | | $m^3$ | 3,30E+01 | 1,01E+01 | 0,00E+00 | 1,99E+00 | 1,97E+00 | 8,16E-03 | -1,51E+02 |

** Disclaimer: The results of this environmental impact indicator should be used with caution as the uncertainty in these results is large or because there is limited experience with the indicator.

"E" means exponent (10x). For example, 3.5 E-02 means 3.5*10-2 and can be read as 0.035.



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## Potential environmental impact – additional mandatory and voluntary indicators

| Results per functional or declared unit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **INDICATOR** | **UNIT** | **A1-A3** | **A4** | **C1** | **C2** | **C3** | **C4** | **D** |
| Potential incidence of disease due to particulate matter emissions (PM) | Disease incidence | 1,44E-06 | 3,40E-08 | 0,00E+00 | 6,69E-09 | 6,63E-09 | 1,34E-10 | 6,73E-04 |
| Potential human exposure efficiency relative to U235 (IRP)* | kBq U235 e | 1,54E+00 | 1,93E-02 | 0,00E+00 | 3,80E-03 | 3,77E-03 | 3,31E-05 | -1,21E+00 |
| Potential comparative toxic unit for ecosystems (ETP-fw) ** | CTUe | 3,40E+02 | 1,50E+01 | 0,00E+00 | 2,95E+00 | 2,93E+00 | 2,11E-02 | -2,67E+01 |
| Potential comparative toxic unit for humans – Cancer** | CTUh | 1,58E-07 | 2,99E-10 | 0,00E+00 | 5,90E-11 | 5,85E-11 | 1,59E-12 | -5,30E-10 |
| Potential comparative toxic unit for humans – Non cancer** | CTUh | 2,49E-07 | 1,83E-08 | 0,00E+00 | 3,60E-09 | 3,57E-09 | 1,63E-10 | -9,66E-08 |
| Potential soil quality index (SQP)** | Dimensionless | 1,06E+03 | 1,10E+01 | 0,00E+00 | 2,16E+00 | 2,14E+00 | 1,20E-02 | -1,54E+01 |

*Disclaimer: This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

** Disclaimer: The results of this environmental impact indicator should be used with caution as the uncertainty in these results is large or because there is limited experience with the indicator



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## Use of resources

| Results per functional or declared unit | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| INDICATOR | | UNIT | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| Primary energy resources – Renewable | Use as energy carrier | MJ | 1,99E+02 | 2,94E+00 | 0,00E+00 | 5,80E-01 | 5,75E-01 | 4,50E-03 | 2,92E+02 |
| | Used as raw materials | MJ | 3,29E+02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | -3,29E+02 | 0,00E+00 | 0,00E+00 |
| | TOTAL | MJ | 5,28E+02 | 2,94E+00 | 0,00E+00 | 5,80E-01 | -3,29E+02 | 4,50E-03 | 2,92E+02 |
| Primary energy resources – Non-renewable | Use as energy carrier | MJ | 3,86E+02 | 8,58E+00 | 0,00E+00 | 1,69E+00 | 0,00E+00 | 2,29E-02 | -5,34E+01 |
| | Used as raw materials | MJ | 2,28E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | -2,28E+00 | 0,00E+00 | 0,00E+00 |
| | TOTAL | MJ | 3,88E+02 | 8,58E+00 | 0,00E+00 | 1,69E+00 | -6,06E-01 | 2,29E-02 | -5,34E+01 |
| Secondary material | | kg | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Renewable secondary fuels | | MJ | 2,57E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | -2,13E+02 |
| Non-renewable secondary fuels | | MJ | 6,94E-03 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | -5,76E+01 |
| Net use of fresh water | | $m^3$ | 7,91E-01 | 7,92E-01 | 2,35E-01 | 4,63E-02 | 4,59E-02 | 1,91E-04 | 0,00E+00 |

## Waste production and output flows

### Waste production

| Results per functional or declared unit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PARAMETER | UNIT | A1-A3 | A4 | C1 | C2 | C3 | C4 | D |
| Hazardous waste disposed | kg | 1,03E-04 | 3,61E-11 | 0,00E+00 | 7,12E-12 | 7,06E-12 | 1,70E-12 | -1,42E-09 |
| Non-hazardous waste disposed | kg | 1,37E-01 | 1,08E-03 | 0,00E+00 | 2,13E-04 | 2,11E-04 | 8,00E-02 | -2,88E-02 |
| Radioactive waste disposed | kg | 5,02E-03 | 9,29E-06 | 0,00E+00 | 1,83E-06 | 1,82E-06 | 1,69E-07 | -9,67E-03 |



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### Output flows

| Results per functional or declared unit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **INDICATOR** | **UNIT** | **A1-A3** | **A4** | **C1** | **C2** | **C3** | **C4** | **D** |
| Components for reuse | kg | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Material for recycling | kg | 7,33E-04 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 7,30E-01 | 0,00E+00 | 0,00E+00 |
| Materials for energy recovery | kg | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 1,89E+01 | 0,00E+00 | 0,00E+00 |
| Exported energy, electricity | MJ | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Exported energy, thermal | MJ | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |

## Other environmental performance indicators

| Results per functional or declared unit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **INDICATOR** | **UNIT** | **A1-A3** | **A4** | **C1** | **C2** | **C3** | **C4** | **D** |
| GWP-IOBC/GHG | kg CO2 eq | 1,94E+01 | 5,66E-01 | 0,00E+00 | 1,11E-01 | 1,10E-01 | 1,66E-03 | -8,30E+00 |



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# References


- General Programme Instructions of the International EPD® System. Version 4.0.

- EN 15804:2012+A2:2019. Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products. CEN European Committee for Standardisation (2019).

- EN 1685:2014 “Round and sawn timber – Environmental Product Declarations – Product category rules for wood and wood-based products for use in construction”

- LCA methodology report for EPD tool for Kitchen & Bath for wall cabinet Svedbergs

- Liljenroth, A., Al-Ayish, N. & Hallberg, L (2022). Generic LCA methodology report for Kitchen & Bath EPD tool for TMF.

- PCR 2019:14. Construction products. version 1.2.5 (2022-11-01)

- PCR 2019:14-c-PCR-021 Furniture (c-PCR to PCR 2019:14). EPD International