

# ENVIRONMENTAL PRODUCT DECLARATION

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

## Poem Vanity Unit 60x45 2 Drawers

from

**Svedbergs i Dalstorp**



Programme:	The International EPD® System, <a href="http://www.environdec.com">www.environdec.com</a>
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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](http://www.environdec.com)*



## General information

### Programme information

<b>Programme:</b>	The International EPD® System
<b>Address:</b>	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
<b>Website:</b>	<a href="http://www.environdec.com">www.environdec.com</a>
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<b>Accountabilities for PCR, LCA and independent, third-party verification</b>
<b>Product Category Rules (PCR)</b>
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product category rules (PCR): <i>PCR 2019:14 VERSION 1.2.5 (2022-11-01)</i> , <i>PCR 2019:14-c-PCR-021 Furniture (c-PCR to PCR 2019:14)</i>
PCR review was conducted by: <i>The Technical Committee of the International EPD® System.</i> See <a href="http://www.environdec.com/TC">www.environdec.com/TC</a> for a list of members. Review chair: <i>Claudia A. Peña</i> , <i>University of Concepción, Chile.</i> The review panel may be contacted via the Secretariat <a href="http://www.environdec.com/contact">www.environdec.com/contact</a> .
<b>Life Cycle Assessment (LCA)</b>
LCA accountability: Oskar Frisk & Hans Svensson, Svedbergs i Dalstorp AB
<b>Third-party verification</b>
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: <input checked="" type="checkbox"/> EPD verification by individual verifier Third party verifier: Daniel Böckin, Miljögiraff AB, <a href="mailto:daniel@miljogiraff.se">daniel@miljogiraff.se</a> Approved by: The International EPD® System 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 from different programmes 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.

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## Company information

Owner of the EPD: Svedbergs i Dalstorp AB

Contact: Hans Svensson

E-mail: [hans.svensson@svedbergs.se](mailto:hans.svensson@svedbergs.se)

Description of the organisation: Svedbergs is a publicly traded company that was founded in 1920 and has since 1962 produced quality products for bathrooms. Today it's 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

Verkstadvägen 1

514 63 Dalstorp

## Product information

Product name: Poem Vanity Unit 60x45 2 Drawers



*The picture shows the product Poem Vanity Unit 60x45 White 2 Drawers.*

Product description:

Poem is a wide and versatile collection that suits both small and large bathrooms. Widths range from 50-160 cm depending on depth (35 or 45 cm). The products are delivered with one, two or four drawers depending on depth and width. The drawers have inserts made of wood and sheet metal that provides both an authentic feel and a smart way to store your bathroom essentials. Poem is available in the colors: white, sand, pure oak & brown/black ash. Poem also has a variety of options when choosing fronts, from flat to more intricate designs such as frames and integrated grips.

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

Geographical scope: Nordic countries

Products included: This is a representative EPD for multiple products, the products included are listed after the results tables. Since the LCA is based on generic pre-verified materials all the included products would be modelled the same way as the representative product. Therefore it's safe to assume that the results would not differ.

## LCA information

Functional unit / declared unit:

1 piece of product (23,2 kg)

The conversion factor needed to recalculate the results to per kg is therefore (1/23,2).

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

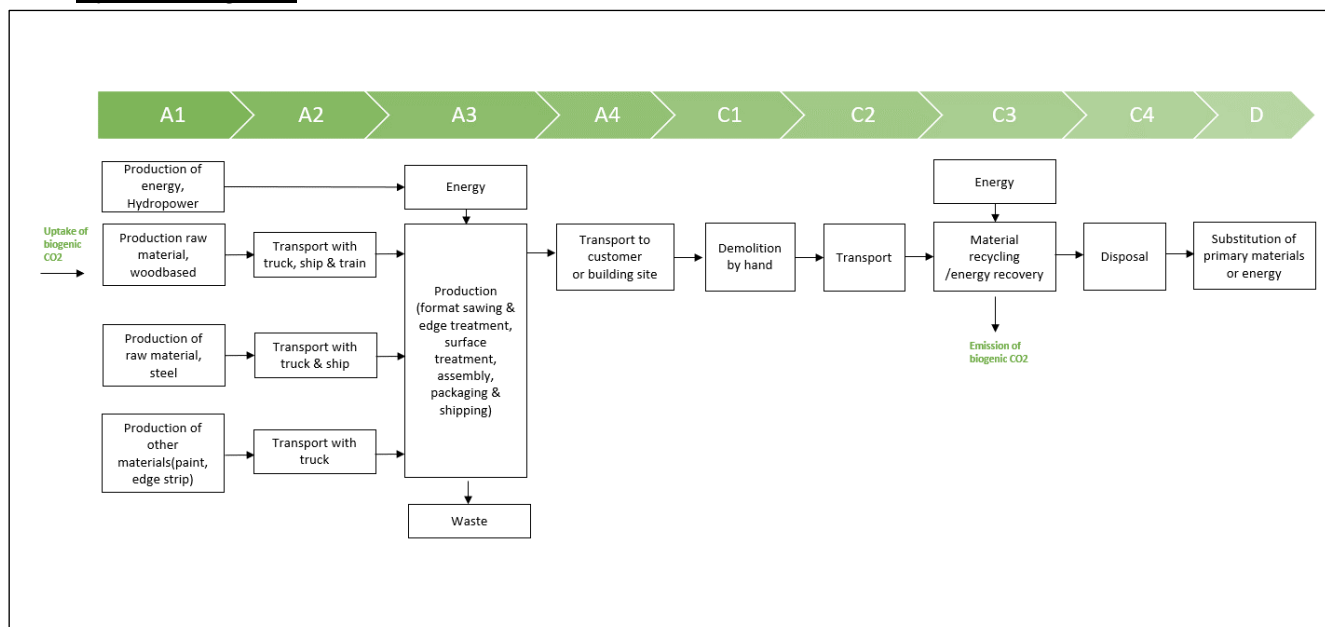
Time representativeness: 2022

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, Miljögraff 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.

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 power. 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 kitchen 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 sent 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.

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	6,03%			-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Variation – products	-					-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	-					-	-	-	-	-	-	-	-	-	-	-	-	-

## Content declaration

Product components	Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/kg
Chipboard	15-16	0%	41% & 0,5 kg C/kg*
Steel	7-8	12,7%*	Non-biogenic material
ABS	0,1-0,5	0%	Non-biogenic material
Paint	0,01-0,05	0%	Non-biogenic material
Powder coating	0,01-0,05	0%	Non-biogenic material
Packaging materials	Weight, kg	Weight-% (versus the product)	Weight biogenic carbon, kg C/kg
*Refer to LCA-information			

\*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			



## 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 <sub>2</sub> eq.	3,96E+01	6,60E-01	0,00E+00	1,30E-01	5,15E-02	3,99E-03	-6,57E+00
	Biogenic	kg CO <sub>2</sub> eq.	-2,81E+01	2,05E-03	0,00E+00	4,05E-04	2,81E+01	-9,94E-05	0,00E+00
	Land use and land use change	kg CO <sub>2</sub> eq.	3,70E-02	3,69E-03	0,00E+00	7,26E-04	2,88E-04	1,31E-05	-1,13E-04
	TOTAL	kg CO <sub>2</sub> eq.	1,16E+01	6,65E-01	0,00E+00	1,31E-01	2,81E+01	3,90E-03	-6,57E+00
Depletion potential of the stratospheric ozone layer (ODP)		kg CFC 11 eq.	9,22E-07	1,49E-08	0,00E+00	2,93E-09	1,16E-09	1,16E-11	-4,10E-08
Acidification potential (AP)		mol H+ eq.	1,59E-01	7,42E-03	0,00E+00	1,46E-03	5,79E-04	3,06E-05	-1,39E-02
Eutrophication potential (EP)	Freshwater	kg P eq.	2,70E-03	3,41E-05	0,00E+00	6,72E-06	2,66E-06	3,25E-08	-1,26E-05
	Marine	kg N eq.	4,17E-02	4,00E-03	0,00E+00	7,88E-04	3,12E-04	9,56E-06	-2,10E-04
	Terrestrial	Mole of N eq.	4,22E-01	3,80E-02	0,00E+00	7,49E-03	2,96E-03	1,00E-04	2,67E-03
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,25E-01	5,19E-03	0,00E+00	1,02E-03	4,05E-04	2,35E-05	-1,36E-03
Abiotic depletion potential	Minerals and metals**	kg Sb eq.	1,16E-04	3,55E-07	0,00E+00	7,00E-08	2,77E-08	6,07E-10	-4,12E-07
	Fossil resources**	MJ	5,77E+02	1,00E+01	0,00E+00	1,98E+00	7,84E-01	5,41E-02	-6,01E+01
Water scarcity potential (WDP)**		m <sup>3</sup>	2,79E+01	1,18E+01	0,00E+00	2,33E+00	9,23E-01	9,61E-03	-1,19E+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<sup>-2</sup> and can be read as 0.035.

**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	2,36E-06	3,98E-08	0,00E+00	7,85E-09	3,11E-09	3,39E-10	5,33E-04
Potential human exposure efficiency relative to U235 (IRP)*		kBq U235 e	1,91E+00	2,26E-02	0,00E+00	4,46E-03	1,77E-03	6,87E-05	-9,60E-01
Potential comparative toxic unit for ecosystems (ETP-fw)**		CTUe	3,45E+02	1,76E+01	0,00E+00	3,46E+00	1,37E+00	3,99E-02	-2,11E+01
Potential comparative toxic unit for humans	Cancer**	CTUh	6,29E-07	3,51E-10	0,00E+00	6,92E-11	2,74E-11	4,16E-12	-4,20E-10
	Non cancer**	CTUh	4,94E-07	2,14E-08	0,00E+00	4,22E-09	1,67E-09	4,45E-10	-7,65E-08
Potential soil quality index (SQP)**		Dimensionless	8,40E+02	1,29E+01	0,00E+00	2,53E+00	1,00E+00	1,94E-02	-1,22E+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

**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	1,76E+02	3,45E+00	0,00E+00	6,80E-01	2,69E-01	8,91E-03	2,31E+02
	Used as raw materials	MJ	2,63E+02	0,00E+00	0,00E+00	0,00E+00	-2,63E+02	0,00E+00	0,00E+00
	TOTAL	MJ	4,39E+02	3,45E+00	0,00E+00	6,80E-01	-2,63E+02	8,91E-03	2,31E+02
Primary energy resources – Non-renewable	Use as energy carrier	MJ	5,77E+02	1,01E+01	0,00E+00	1,98E+00	7,85E-01	5,41E-02	-4,23E+01
	Used as raw materials	MJ	1,70E+02	0,00E+00	0,00E+00	0,00E+00	-1,70E+02	0,00E+00	0,00E+00
	TOTAL	MJ	7,47E+02	1,01E+01	0,00E+00	1,98E+00	-1,69E+02	5,41E-02	-4,23E+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	-1,69E+02
Non-renewable secondary fuels		MJ	6,94E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-4,56E+01
Net use of fresh water		m <sup>3</sup>	7,08E-01	2,76E-01	0,00E+00	5,43E-02	2,15E-02	2,27E-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	7,06E-04	4,24E-11	0,00E+00	8,35E-12	3,31E-12	4,93E-12	-1,13E-09
Non-hazardous waste disposed	kg	8,41E-01	1,27E-03	0,00E+00	2,50E-04	9,90E-05	2,30E-01	-2,28E-02
Radioactive waste disposed	kg	7,46E-03	1,09E-05	0,00E+00	2,15E-06	8,51E-07	4,94E-07	-7,66E-03

**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	8,59E-04	0,00E+00	0,00E+00	0,00E+00	7,90E+00	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,51E+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	3,96E+01	6,63E-01	0,00E+00	1,31E-01	5,18E-02	4,00E-03	-6,57E+00

**SVEDBERGS**



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## Articles included

Item number	Product description	GTIN
3456112	Poem Vanity Unit 60x45 White 2 Drawers	7323100343826
3456112-COL	Poem Vanity Unit 60x45 COL 2 Drawers	7323100365323
3456122	Poem Vanity Unit 60x45 Sand 2 Drawers	7323100344427

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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 report for EPD tool for Kitchen & Bath for Svedbergs Poem 60x45
- 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

