

# **Environmental Product Declaration**





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

#### **Purus Joti Plastic Drains**

from

#### Purus AB

## **PURUS**

Programme

Programme operator

EPD registration number

Version date:

Revision date:

Valid until:

**EPD International AB** 

The International EPD® System

EPD IES 0013367

2024 07 04

2025 01 24

2029 07 03

This EPD covers multiple products and based on results of representative product. 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





#### THE INTERNATIONAL EPD® SYSTEM

#### **General Information**

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

Accountabilities fo	r PCR, LCA and independent, third-party verification						
Product Category	Construction products (EN 15804:A2)						
Rules (PCR)	PCR 2019:14 Construction products (EN 15804:A2) (1.3.4)						
Life Cycle Assessment (LCA)	Carbonzero AB						
	Independent third-party verification of the declaration and data, according to ISO 14025:2006:						
	✓ EPD process certification						
Third-party	Vladimír Kocí, LCA Studio						
verification:	CA Studio Los						
	Approved by: The International EPD® System						
Procedure for follow	r-up of data during EPD validity involves third party verifier: ☐ Yes 🗸 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.



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Company information								
Owner of the EPD	Purus AB							
Contact	Product Manager Drains - Håkan Fridvall							
Description of the organisation	Family own company with own production, product development, sales etc. Mainly operating in the plumbing business. Based in Ystad Sweden production units also in Smålandsstenar and Lönsboda, Sweden. Main markets are Nordic countries but with an export organization and subsidiary in the UK.							
Product-related or management system-related certifications:	EN ISO 9001:2015 EN ISO 14001:2015							
Name and location of production site(s):	Name of plant: Purus Ystad Location: Sweden							

Product informatio	Product information							
Product name(s)	Joti K-drain75 side							
Product description:	Plastic Purus Drains in injection moulded PP, PEH and ABS to be used in indoor drainage systems produced in Sweden. Drains available in a wide range of models to fit in most applications. Several dimensions of outlets and various directions. Purus Drain assortment comes with a range of accessories to secure and simplify installation. Purus drain has been produced by the company since 1945. This EPD is valid for the listed Purus Drains Product lines: Purus Joti K Sluk, M Sluk, A Sluk, KU Sluk, AU Sluk Joti R							
RSL	N/A years							
UN CPC code	3693 - Baths, wash-basins, lavatory pans and covers, flushing cisterns and similar sanitary ware							

LCA information	
Functional unit / declared unit	1 kg of Product
Time representative-ness	Data obtained refers to the year 2023
System Boundary	The system boundary assumed is "cradle-to-gate" with options with modules A1-A3, A4, C1-C4 and D.
Database(s) and LCA software used	Eando X version 1.01

**Benefits** 



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	A1	A2	A3	A4	A5	B1-7	C1-4		
Extraction and Transport of raw of raw materials			Manufact- uring	Transport to end user	Installation on site	User	End of life		
			哂		<b>%</b>	کری ۔	EOL ♣		
			Waste		Waste		Waste		
This module considers the extraction and processing of all raw materials, ener and transportation which occur upstream to the studied manufacturing processing packaging material.									
<b>\1</b>		i	and transportation which occur upstream to the studied manufacturing process, including packaging material.						
12	Transport manufact		The raw materials are transported to the manufacturing site.						
13	Manufact		This module includes all resources used to produce and waste produced. This also includes additives and packaging material.						
۸4	Transport		Transportation from the manufacturing site to distribution centre and then from the distribution centre to the building site is included.						
	Transport	Scenario	Truck: 600km						
<b>\</b> 5	Construct installatio		-	•	t for GWP-bioger alanced in this n	-	packaging that		
1- 37	Use stage	e 1	his stage is not	declared.					
21	Deconstru olition	action/Dem r			truction and/or d ded in this study				
22	Transport	: 7	his stage repres	sents the transpo	ort distance to th	e waste proces	sing facility.		
2	Waste pro	ocessing	his stage includ	les any waste tr	eatment needed				
23	EOL Scen	ario L	Landfill 2.45%. Incineration 34.65%. Recycling 62.88%.						
24	Final disp	osal	his includes any	y material that is	landfilled.				
D	Panafite Emission gradite obtained from energy recovery and/or recycling materials								

Purus's products consist of components made from various materials, such as stainless steel, plastic, and rubber. The steel components are produced using a variety of manufacturing processes: stamping, laser cutting, and deep drawing. Plastic and rubber components are produced using injection molding. Individual components are then assembled, and final products are made ready for shipping. All products considered for the study are manufactured by BLS Industries and shipped to their customers.

Emission credits obtained from energy recovery and/or recycling materials



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

owr-ono results).																	
	Product stage Assembly stage			•	Use stage						End of life stage				Benefits & loads beoyond 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	Reuse-Recovery - Recycling-potential
	A1	A2	АЗ	A4	A5*	В1	B2	ВЗ	В4	B5	В6	В7	C1	C2	C3	C4	D
Declared	Χ	Χ	Х	Х	ND	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	EU	EU	EU	EU	-	-	-	-	-	-	-	-	EU	EU	EU	EU	EU
Specific data used	> 90 %			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation- Products	< 5 %		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Variation- Sites		0 %	ò	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ND - Not Declared; X - Declared

Reading example:  $9.0E-03 = 9.0*10^3 = 0.009$ 

Disclaimer: The results presented for modules A1-A3 alone shall not be used for comparisons unless all relevant life cycle stages, particularly end-of-life (C1-C4), are included. This ensures a more accurate and representative assessment of the environmental impact over the full product life cycle.

<sup>\*</sup> Module A5 is only partially declared, GWP biogenic arising due to packaging material in A1-A3 stages are balanced in A5 where it exits the product system boundary.



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#### **Content Information**

Product Components	Weight, kg	Post- consumer material, weight-%	Biogenic material, weight- % and kg C/kg
Plastic	0.741	0.000	0.000
Pigments	0.013	0.000	0.000
Metal	0.246	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
Packaging Paper	0.020	1.967	0.008
Folding Box Board	0.362	36.230	0.145
Polyethylene (PE)	0.002	0.164	0.000
Total	0.384	38.361	0.153

Dangerous substances from the candidate list of SVHC for Authorisation	EC No.	CAS No.	Weight- % per functional or declared unit
-	-	-	0.000

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)





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### **Environmental Information**

Potential environmental impact – indicators according to EN 15804+A2

	Results per functional unit: 1 kg										
Indicat	or	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D	
GWP-total		kg CO2 eq	3.25e+0	5.40e-2	5.77E-1	0.00e+0	4.50e-3	1.39e-1	1.03e+0	-1.62e+0	
GWP-fossil		kg CO2 eq	3.79e+0	5.29e-2	1.52E-2	0.00e+0	4.41e-3	1.27e-1	1.03e+0	-1.62e+0	
GWP-biogenic		kg CO2 eq	-5.40e-1	1.70e-4	5.61E-1	0.00e+0	1.42e-5	1.16e-2	5.40e-5	0.00e+0	
GWP-luluc		kg CO2 eq	7.46e-3	9.00e-4	8.62E-6	0.00e+0	7.50e-5	1.45e-4	1.26e-5	-3.01e-4	
ODP		kg CFC-11 eq	3.69e-8	7.86e-15	2.65E-12	0.00e+0	6.55e-16	1.34e-9	8.35e-14	-6.51e-9	
AP		mole H+ eq	1.39e-2	3.39e-4	1.52E-4	0.00e+0	2.82e-5	5.47e-4	1.16e-4	-3.59e-3	
EP-freshwater*		kg P eq	6.54e-4	2.28e-7	6.66E-8	0.00e+0	1.90e-8	2.32e-5	2.05e-8	-1.51e-4	
EP-marine		kg N eq	3.26e-3	1.66e-4	5.59E-5	0.00e+0	1.38e-5	2.30e-4	2.71e-5	-9.32e-4	
EP-terrestrial		mole N eq	3.20e-2	1.84e-3	6.96E-4	0.00e+0	1.53e-4	1.77e-3	5.43e-4	-1.00e-2	
POCP		kg NMVOC eq	1.20e-2	3.28e-4	1.48E-4	0.00e+0	2.74e-5	6.31e-4	7.98e-5	-4.20e-3	
ADP-minerals &	metals**	kg Sb eq	8.25e-6	4.65e-9	1.98E-9	0.00e+0	3.88e-10	6.53e-7	8.61e-10	-3.10e-6	
ADP-fossil**		MJ	9.76e+1	7.02e-1	1.71E-1	0.00e+0	5.85e-2	1.81e+0	1.84e-1	-4.51e+1	
WDP**		m3	1.16e+0	8.28e-4	6.75E-2	0.00e+0	6.90e-5	2.25e-2	9.68e-2	-2.42e-1	
Acronyms	Global Wo = Acid reaching compo	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption									

<sup>\*</sup> The results in kg PO4 eq. can be obtained by multiplying the results in kg P eq. by a factor of 3,07.

<sup>\*\*</sup> The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.



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### **Use of resources**

Results per functional unit: 1 kg										
Indicator	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D	
PERE	MJ	1.73e+1	6.06e-2	4.57E-2	0.00e+0	5.05e-3	7.83e-2	5.00e-2	-2.44e+0	
PERM	MJ	5.39e+0	0.00e+0	0.00E+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	
PERT	MJ	2.27e+1	6.06e-2	4.57E-2	0.00e+0	5.05e-3	7.83e-2	5.00e-2	-2.44e+0	
PENRE	MJ	8.10e+1	7.02e-1	1.71E-1	0.00e+0	5.85e-2	1.81e+0	1.84e-1	-3.85e+1	
PENRM	MJ	3.20e+1	0.00e+0	0.00E+0	0.00e+0	0.00e+0	-1.59e+1	0.00e+0	0.00e+0	
PENRT	MJ	1.13e+2	7.02e-1	1.71E-1	0.00e+0	5.85e-2	-1.41e+1	1.84e-1	-3.85e+1	
SM	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	
RSF	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	
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	2.62e-2	6.78e-5	1.59E-3	0.00e+0	5.65e-6	5.24e-4	2.27e-3	-8.10e-3	
Acronyms	m3 2.62e-2 6.78e-5 1.59E-3 0.00e+0 5.65e-6 5.24e-4 2.27e-3 -8.10e-3  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									





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### **Additional voluntary indicators**

Results per functional unit: 1 kg									
Indicator Unit A1 - A3 A4 A5 C1 C2 C3 C4 D									
GWP-GHG	kg CO2 eq	3.82E+0	5.40E-2	1.52E-2	0.00E+0	4.50E-3	1.39E-1	1.03E+0	-1.63E+0
Acronyms	GWP-GHG glo	obal warming	potential -	greenhouse	gases				

The GWP-GHG indicator is identical to GWP-total except that the characterisation factor (CF) for biogenic CO2 is set to zero. This means that the uptake and emissions of biogenic CO2 are "balanced out" already in modules A1-A3, instead of in modules A1-A5 (for packaging) or modules A-C (for product). In the context of Norwegian public procurement legislation, GWP-GHG is also referred to as GWP-IOBC.

### **Waste and output flows**

		Re	sults per	function	nal unit:	1 kg			
Indicator	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
HWD	kg	1.04E-8	2.69E-11	9.51E-11	0.00E+0	2.24E-12	0.00E+0	1.05E-10	-5.54E-9
NHWD	kg	3.86E-2	1.15E-4	1.70E-2	0.00E+0	9.55E-6	0.00E+0	4.48E-2	-2.15E-2
RWD	kg	8.90E-4	1.28E-6	8.42E-6	0.00E+0	1.07E-7	0.00E+0	8.39E-6	-2.43E-3
Acronyms	HW Ho	zardous was	te disposed; N	NHW Non-haz	zardous was	te disposed; F	RW Radioact	ive waste dis <sub>l</sub>	oosed



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### **Output flows**

Results per functional unit: 1 kg									
Indicator	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
CRU	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
MFR	kg	0.00E+0	0.00E+0	9.02E-4	0.00E+0	0.00E+0	6.29E-1	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	0.00E+0	0.00E+0	0.00E+0
EET	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
Acronyms		mponents for energy; ETE Ex			recycling; ME	R Materials fo	or energy reco	overy; EEE Ex	ported



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### **Product Table**

Name	Weight, kg	Unit
Joti K-drain75 side	0.610	рс
Joti AU-drain 75, 45°	0.812	рс
Joti A-drain 75 bottom	0.784	рс
Joti A-drain 75, 45°	0.782	рс
Joti A-drain 75 side	0,764	рс
Joti A-drain 75, 45°	0,782	рс
Joti AU-drain 75 side	0,778	рс
Joti AU-drain75 bottom	0,812	рс
Joti KU-drain 75 bottom	0,670	рс
Joti K-drain bottom 75	0.666	рс
Joti K-drain 50 side	0.592	рс
Joti KU-drain 50 side	0,626	рс
Joti K-drain 75, 45°	0,626	рс
Joti K-drain 75 bottom	0,624	рс
Joti KU-drain 75, 45°	0,658	рс
Joti KU-drain 75 side	0,654	рс
Joti M-drain 50 side	0,542	рс
Joti M-drain 40 side untrapped	0,422	рс
Joti M-drain 40 low side untrapped	0,406	рс
Joti L-sluk Ø75 Skrå 45° sideutløp	0,702	рс

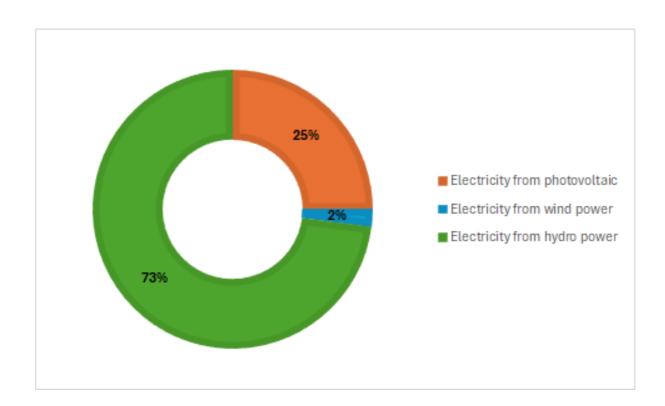
Name	Weight, kg	Unit
Joti L-drain 75 side	0,840	рс
Joti M-drain low 50	0,530	рс
Casting template Joti R Ø110/Ø160	0,293	рс
Untrapped Joti 32 side	0,360	рс
K-sluk 50 mm skråutløp 45 grd. 04	0,670	рс
Joti R Ø110	0.500	рс



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# Energy Breakdown Breakdown of energy usage

Name	Value	Unit
Electricity Mix - BLS Ystad (2023)	1,60E-01	kg CO2 -eq/kWh







### **Additional information**

#### **Additional Environmental Information**

See the PCR and sections 5.4, 7.3 and 7.4 in EN 15804.

An EPD may include additional environmental information, in addition to the LCA results of the section on environmental performance results. The additional environmental information may cover various aspects of specific relevance for the product, for example:

- instruction for proper use of the product, e.g. to minimise the energy or water consumption or to improve the durability of the product;
- · instructions for proper maintenance and service of the product;
- information on key parts of the product determining its durability;
- information on recycling including e.g. suitable procedures for recycling the entire product or selected parts and the potential environmental benefits gained;
- information on a suitable method of reuse of the product (or parts of the products) and procedures for disposal as waste at the end of its life cycle,
- information regarding disposal of the product or inherent materials, and any other information considered necessary to minimise the product's end-of-life impacts,
- information on permanent (more than 100 years) storage of biogenic carbon, either in the product, in a landfill,
  or as a consequence of applying carbon capture and storage (CCS) to the incineration of biogenic carbon, and
  how this would influence GWP-biogenic results if the GWP-biogenic indicator would allow consideration of
  such storage (it currently does not according to EN 15804; in case of such storage a virtual emission of
  biogenic CO2 has to be added, see Annex 2)
- a more detailed description of an organisation's overall environmental work such as:
  - the existence of a quality or environmental management system or any type of organised environmental activity, and
  - information on where interested parties may find more details about the organisation's environmental work.

Additional environmental information can also include information on carbon offset, carbon storage and delayed emissions, or on release of dangerous substances to indoor air, soil and water during the use stage.

#### Additional social and economic information

The EPD may also include other relevant social and economic information as additional and voluntary information. This may be product information or a description of an organisation's overall work on social or economic sustainability, such as activities related to supply chain management or social responsibility.

Any additional social and economic information declared shall be substantiated and verifiable, and be derived using appropriate methods and be specific, accurate, not misleading, and relevant to the specific product. Quantitative information is preferred over qualitative information.



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### **Disclaimers**

ILCD classification	Indicator	Disclaimer		
ILCD Type 1	Global warming potential (GWP)	None		
	Depletion potential of the stratospheric ozone layer (ODP)	None		
	Acidification potential, Accumulated Exceedance (AP)	None		
	Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-freshwater)	None		
ILCD Type 2	Eutrophication potential, Fraction of nutrients reaching marine end compartment (EP-marine)	None		
	Eutrophication potential, Accumulated Exceedance (EP-terrestrial)	None		
	Formation potential of tropospheric ozone (POCP)	None		
	Abiotic depletion potential for non-fossil resources (ADP-minerals & metals)	1		
ILCD Type 3	Abiotic depletion potential for fossil resources (ADP-fossil)	1		
	Water (user) deprivation potential, deprivation-weighted water consumption (WDP)	1		
Disclaimer 1 – The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.				
Note 1: 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.				

Note 2: The results presented for modules A1-A3 alone shall not be used for comparisons unless all relevant life cycle stages, particularly end-of-life (C1-C4), are included. This ensures a more accurate and representative environmental impact assessment over the full product life cycle.

#### **Abbreviations**

CPC	Central Product Classification	LCI	Life Cycle Inventory
CPR	Construction Product Regulation	ND	Not Declared
EPD	<b>Environmental Product Declaration</b>	PCR	Product Category Rules
EU	European Union	PEF	Product Environmental Footprint
GHG	Greenhouse gases	REACH	Restriction of Chemicals
GPI	General Programme Instructions		
GWP	Global Warming Potential	RSL	Reference Service Life
ISO	International Organization for	SI	The International System of Units
	Standardization	SVHC	Substance of Very High Concern
LCA	Life Cycle Assessment	UN	United Nations



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### References

EN 15804:2012+A2	Sustainability of construction works: Environmental product declaration – Core rules for the product category of construction products
EPD International (2021)	General Programme Instructions of the International EPD® System, version 4.0
EPD International (2024)	PCR 2019:14. Construction products and construction services (EN 15804: A2) v1.3.4.
ISO 14020:2000	Environmental labels and declarations: General principles
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.
SCB (2023)	https://www.statistikdatabasen.scb.se/pxweb/en/ssd/START_MI_MI0305/MI0305T003/table/tableViewLayout1/ Accessed 2024-02-03
Association of Issuing Bodies	European Residual Mixes 2021 (2022) https://www.aib-net.org/sites/default/files/assets/facts/residual-mix/2021/AIB_2021_Residual_Mix_Results_1_1.pdf (Retrieved 2023-09-20)
Searates (2024)	https://www.searates.com/services/distances-time/ (Accessed 2024-02-03) Accessed 2024-02-03
EPD International (2024)	General Programme Instructions of the International EPD® System, version 5.0



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### **Contact Info**

**PURUS** EPD owner: Email: info@purus.se Telephone: +46 10 41 44 900 Address: SE-271 39 Ystad, Sweden **Z** CARBONZERO LCA author: Carbonzero AB Email: info@eando.se Telephone: +46 4 317 07 07 Address: SE-262 32 Ängelholm, Sweden **LCA** Studio Third party verifier: Vladimír Kocí Email: vladimir.koci@lcastudio.cz Telephone: +420 608 055 972 Address: LCA Studio, Šárecká 1962/5, 160 00 Praha 6 **EPD**® Program operator: **EPD International AB** Email: info@environdec.com Telephone: +46 073 311 30 20 Address: SE-11427 Stockholm, Sweden