

Environmental Product Declaration





In accordance with ISO 14025 and EN 15804:2012 A2:2019 for: Jafo floor drains and accessories

from Jafo AB



Programme Programme operator EPD registration number Version date: Valid until: EPD International AB The International EPD* System EPD IES 0002777 2025 01 10 2030 01 09

This EPD covers multiple products and based on results of average composition. An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com







General Information

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

Accountabilities for PCR, LCA and independent, third-party verification							
Product Category	Construction products (EN 15804:A2)						
Rules (PCR)	PCR 2019:14 Construction products (EN 15804:A2) (1.3.4)						
Life Cycle Assessment (LCA)	Carbonzero AB						
Third-party verification:	Independent third-party verification of the declaration and data, according to ISO 14025:2006: EPD process certification Vladimír Kocí, LCA Studio Image: Construction of the declaration and data, according to ISO Vladimír Kocí, LCA Studio Image: Construction of the declaration and data, according to ISO Approved by: The International EPD® System						
Procedure for follow	v-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.





Company informati	Company information								
Owner of the EPD	Jafo AB								
Contact	Product Manager - Erik Nersing								
Description of the organisation	Jafo AB in Lund is a part of BLS Industries AB, a family-owned company based in Ystad with production, product development, sales etc. Plumbing products are the main business. Production units are located in Sweden and the products are mostly sold in the Nordic countries.								
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:BLS IndustriesLocation:Dösjebro, SwedenName of plant:BLS IndustriesLocation:Ystad, Sweden								

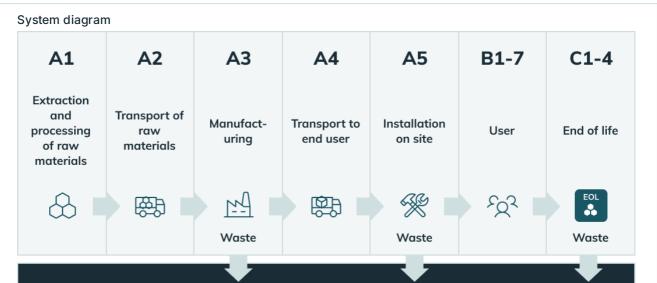
Product information								
Product name(s)	DB-Lås II, dubbelt m rens- & förlängningsrör							
Product description:	Plastic Jafo Drains in injection molded PP, PEH and ABS to be used in indoor drainage systems. The drains are available in a wide range of models to fit in most applications with several dimensions of outlets and various directions. The Jafo drain assortment comes with a range of accessories to secure and simplify installation. The Jafo drain has been produced by the company since 1971. This EPD is valid for the listed Jafo Products: floor drains, sink traps and accessories.							
RSL	N/A years							
UN CPC code	3695 - Builders' ware of plastics n.e.c.							

LCA information	
Functional unit / declared unit	1 kg of product
Time representative- ness	2022-2023
System Boundary	The system boundaries are set to be "cradle-to-gate" with modules C1-C4 + D for end of life.
Database(s) and LCA software used	Eando X version 1.01



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D Benefits and loads beyond the system boundary

A1Raw material supplyThis module considers the extraction and processing of all raw materials, energy, and transportation which occur upstream to the studied manufacturing process, including packaging material.A2Transport to the manufacturerThe raw materials are transported to the manufacturing site.A3ManufacturingThis module includes all resources used to produce and waste produced. This also includes additives and packaging material.A4TransportTransport of the distribution centre to the building site is included.A4Transport Scenariotruck: 600kmA5Construction installationThis stage is not declared except for GWP-biogenic arising from packaging that exits the system boundary was balanced in this module.B1- B7Use stageThis stage is not declared.C1Deconstruction/Dem olitionThis stage includes the de-construction and/or demolition of the building. This is not relevant as the product included in this study is not used in the construction process.C2TransportThis stage includes any waste treatment needed.C3Waste processingThis stage includes any waste treatment needed.C4Final disposalThis includes any material that is landfilled.DBenefitsEmission credits obtained from energy recovery and/or recycling materials								
A2manufacturerThe raw materials are transported to the manufacturing site.A3ManufacturingThis module includes all resources used to produce and waste produced. This also includes additives and packaging material.A4TransportTransportation from the manufacturing site to distribution centre and then from the distribution centre to the building site is included.A4Transport Scenariotruck: 600kmA5Construction installationThis stage is not declared except for GWP-biogenic arising from packaging that exits the system boundary was balanced in this module.B1- B7Use stageThis stage is not declared.C1Deconstruction/Dem olitionThis stage includes the de-construction and/or demolition of the building. This is not relevant as the product included in this study is not used in the construction process.C2TransportThis stage includes any waste treatment needed.C3Waste processingThis stage includes any waste treatment needed.C4Final disposalThis includes any material that is landfilled.	A1	Raw material supply	and transportation which occur upstream to the studied manufacturing process,					
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Waste processing This stage includes any waste treatment needed. EOL Scenario Landfill 2.89%. Incineration 32.01%. Recycling 65.09%. C4 Final disposal This includes any material that is landfilled.	C1		not relevant as the product included in this study is not used in the construction					
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	03	EOL Scenario	Landfill 2.89%. Incineration 32.01%. Recycling 65.09%.					
D Benefits Emission credits obtained from energy recovery and/or recycling materials	C4	Final disposal	This includes any material that is landfilled.					
	D	Benefits	Emission credits obtained from energy recovery and/or recycling materials					

Jafo'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.





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 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	A3	A4	A5*	B1	B2	В3	Β4	B5	B6	B7	C1	C2	С3	C4	D
Declared	Х	Х	Х	Х	ND	ND	ND	ND	ND	ND	ND	ND	Х	Х	Х	Х	Х
Geography	EU	EU	SE	EU	-	-	-	-	-	-	-	-	EU	EU	EU	EU	EU
Specific data used		9 %		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation- Products		< 10 %	ò	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation- Sites		< 10 %	b	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ND – Not Declared; X – Declared

Reading example: 9,0E-03 = 9,0*10^3 = 0,009

* 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.





Content Information

Product Components	Weight, kg	Post- consumer material, weight-%	Biogenic material, weight- % and kg C/kg
Metal	0.289	0.745	0.000
Plastic	0.701	0.000	0.000
Pigments	3.71e-4	0.000	0.000
Rubber	0.010	0.000	0.000
Total	1.000	0.215	0.000

Packaging Materials	Weight, kg	Weight- % (versus the product)	Weight biogenic carbon, kg C/kg		
Polyethylene (PE)	0.012	1.210	0.000		
Corrugated Board	0.095	9.539	0.041		
Packaging Paper	0.013	1.283	0.005		
Total	0.120	12.032	0.046		

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	С3	C4	D
GWP-total		kg CO2 eq	3.38e+0	5.40e-2	1.70e-1	0.00e+0	4.50e-3	1.37e-1	9.75e-1	-1.96e+0
GWP-fossil		kg CO2 eq	3.52e+0	5.29e-2	ND	0.00e+0	4.41e-3	1.25e-1	9.75e-1	-1.95e+0
GWP-biogenic		kg CO2 eq	-1.51e-1	1.70e-4	1.70e-1	0.00e+0	1.42e-5	1.20e-2	4.06e-5	-9.71e-3
GWP-luluc		kg CO2 eq	2.81e-3	9.00e-4	ND	0.00e+0	7.50e-5	1.47e-4	1.04e-5	-1.08e-3
ODP		kg CFC-11 eq	1.10e-9	7.86e-15	ND	0.00e+0	6.55e-16	1.32e-9	8.38e-14	-5.04e-10
AP		mole H+ eq	1.34e-2	3.39e-4	ND	0.00e+0	2.82e-5	5.43e-4	1.07e-4	-7.39e-3
EP-freshwater*		kg P eq	7.48e-5	2.28e-7	ND	0.00e+0	1.90e-8	2.28e-5	2.11e-8	-3.11e-5
EP-marine		kg N eq	2.62e-3	1.66e-4	ND	0.00e+0	1.38e-5	2.27e-4	2.41e-5	-1.13e-3
EP-terrestrial		mole N eq	2.82e-2	1.84e-3	ND	0.00e+0	1.53e-4	1.77e-3	4.93e-4	-1.24e-2
POCP		kg NMVOC eq	9.16e-3	3.28e-4	ND	0.00e+0	2.74e-5	6.25e-4	7.17e-5	-4.17e-3
ADP-minerals &	metals**	kg Sb eq	5.14e-5	4.65e-9	ND	0.00e+0	3.88e-10	6.50e-7	8.60e-10	-3.41e-5
ADP-fossil**		MJ	8.78e+1	7.02e-1	ND	0.00e+0	5.85e-2	1.77e+0	1.88e-1	-4.75e+1
WDP**		m3	6.45e-1	8.28e-4	ND	0.00e+0	6.90e-5	2.20e-2	9.04e-2	-3.19e-1
Acronyms GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luli Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone lays = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrier reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marin compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abi depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water								ne layer; AP nutrients marine end tential of = Abiotic		

* The results in kg PO4 eq. can be obtained by multiplying the results in kg P eq. by a factor of 3,07. ** 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	9.89e+0	6.06e-2	ND	0.00e+0	5.05e-3	7.67e-2	4.97e-2	-4.42e+0	
PERM	MJ	1.32e+0	0.00e+0	ND	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	
PERT	MJ	1.12e+1	6.06e-2	ND	0.00e+0	5.05e-3	7.67e-2	4.97e-2	-4.42e+0	
PENRE	MJ	7.16e+1	7.02e-1	ND	0.00e+0	5.85e-2	1.77e+0	1.88e-1	-4.13e+1	
PENRM	MJ	3.11e+1	0.00e+0	ND	0.00e+0	0.00e+0	-1.52e+1	0.00e+0	0.00e+0	
PENRT	MJ	1.03e+2	7.02e-1	ND	0.00e+0	5.85e-2	-1.34e+1	1.88e-1	-5.65e+1	
SM	kg	2.15e-3	0.00e+0	ND	0.00e+0	0.00e+0	0.00e+0	0.00e+0	1.94e-3	
RSF	MJ	0.00e+0	0.00e+0	ND	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	
NRSF	MJ	0.00e+0	0.00e+0	ND	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	
FW	m3	1.56e-2	6.78e-5	ND	0.00e+0	5.65e-6	5.12e-4	2.13e-3	-1.02e-2	
Acronyms	m3 1.56e-2 6.78e-5 ND 0.00e+0 5.65e-6 5.12e-4 2.13e-3 -1.02e-2 PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERT = Use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources used as raw materials; PENRM = Use of 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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of									

net fresh water





Additional voluntary indicators

Results per functional unit: 1 kg									
Indicator	Unit	A1 - A3	A4	A5	C1	C2	С3	C4	D
GWP-GHG	kg CO2 eq	3.55e+0	5.40e-2	ND	0.00e+0	4.50e-3	1.37e-1	9.75e-1	-1.96e+0
EP	kg PO4 eq	6.55e-4	0.00e+0	ND	0.00e+0	0.00e+0	0.00e+0	8.61e-7	-3.57e-4
Acronyms	GWP-GHG global warming potential - greenhouse gases; EP eutrophication potential								

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

Results per functional unit: 1 kg									
Indicator	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
HWD	kg	6.75e-7	2.69e-11	ND	0.00e+0	2.24e-12	0.00e+0	8.25e-11	-3.28e-7
NHWD	kg	1.48e-1	1.15e-4	ND	0.00e+0	9.55e-6	0.00e+0	5.15e-2	-1.10e-1
RWD	kg	1.03e-3	1.28e-6	ND	0.00e+0	1.07e-7	0.00e+0	8.22e-6	-2.41e-3
Acronyms	HW Ho	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	A5	C1	C2	C3	C4	D
CRU	kg	0.00e+0	0.00e+0	ND	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
MFR	kg	0.00e+0	0.00e+0	ND	0.00e+0	0.00e+0	6.51e-1	0.00e+0	0.00e+0
MER	kg	0.00e+0	0.00e+0	ND	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
EEE	MJ	0.00e+0	0.00e+0	ND	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
EET	MJ	0.00e+0	0.00e+0	ND	0.00e+0	0.00e+0	0.00e+0	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
86:an Lågbyggd för klinker, med rfr klinkerram	0.609	рс
86:an Lågbyggd för plastmatta, med rfr sil	0.658	рс
86:an Lågbyggd för plastmatta, med urtag i rfr sil	0.668	рс
86:an Ø50 Lågbyggd för plastmatta, med rfr sil	0.651	рс
86:an Ø50 Lågbyggd för plastmatta, urtag i rfr sil	0.661	рс
DB Rensrör Ø50 mm	0.115	рс
DB-Lås II, dubbelt m rens- & förlängningsrör	0.769	рс
Förhöjningsdistans PD 5, höjer 5 mm	0.162	рс
Förhöjningssats 15-50 mm inkl skruv	0.108	рс
GAS 40-75, golvanslutningsstos f. TS-Lås	0.111	рс
GV 75, golvvattenlås ansl. 75/32	0.122	рс
Gastätt plastlock till golv- och rensbrunn	0.051	рс
Golvbrunnsstöd	0.152	рс
JAFO Flex 110 mm rund överd.	0.985	рс
Klinkeröverdel m 3 st förh	0.395	рс
Luktstopp för ROT- & PS 50-brunn	0.113	рс
Mattpaket, plastmatta. Grå klämring och 86:an sil	0.327	рс
Mattpaket, plastmatta. Rostfri klämring och sil	1.040	рс
Mattpaket, plastmatta. Rostfri klämring och sil,urtag	1.050	рс
Mekaniskt Luktstopp passar även 86:an	0.159	рс

Name	Weight, kg	Unit
Monteringsplatta 2, inkl Flyt 12 och skruvar	0.574	рс
PB 75, Plast Botten, MP	0.516	рс
PBL 50, Plast Botten Långt utl. MP	0.589	рс
PBL 75, Plast Botten Långt utl. MP	0.624	рс
PRB 110, rensbrunn betong, 5 mm rfr tätt lock	0.917	рс
PRK 110, rensbrunn klinker	0.640	рс
PRP 110, rensbrunn plastmatta	0.771	рс
PS 50 GR, Plast Sida, MP	0.698	рс
PS 75 D Plast Sida Djup utlopp, MP	0.560	рс
PS 75 GR, Plast Sida, MP. Grå klämring, 86:an sil	0.693	рс
PS 75 X, Plast Sida eXtra inl. MP	0.556	рс
PS 75, Plast Sida, MP	0.536	рс
PSU 32, Plast Sida Utan vattenlås, MP	0.325	рс
PSX 75, Plast Sida eXtra inlopp, MP	0.449	рс
PVS 110, Plast Volym Sida, MP	1.170	рс
Projekt 110 för klinker	0.333	рс
Pungvattenlås M2 till PS,PB,RS,RB, stålhandtag	0.138	рс
Renslock G 1 1/2 med packning, blå	0.012	рс
Råttstopp, rfr ersätter pungvattenlås 713 38 58	0.268	рс
Teleskoprör till DB-Lås, Ø50 mm	0.117	рс





Product Table

Name	Weight, kg	Unit
PB 75 FLEX MP	0.697	рс
PB 75 FLEX UMP	0.714	рс
PBX 75, Plast Botten eXtra inl, MP	0.460	рс
PS 75 FLEX MP	0.706	рс
PS 75 FLEX UMP	0.723	рс

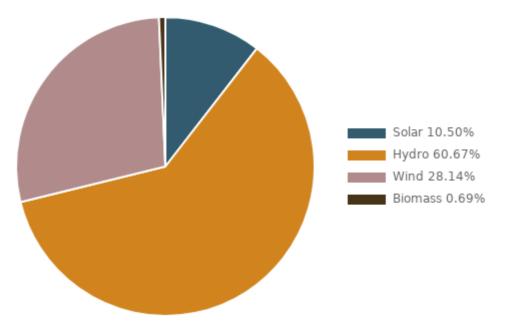




Energy Breakdown Electricity used in the manufacturing

Name	Data source	GWP excl. biogenic [kg CO2-eq/kWh]
Electricity Mix - BLS Industries (2023)	CarbonZero (2023)	1,08E-02

Breakdown of electricity usage





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.





References

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