

Environmental Product Declaration





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

Jafo floor drains, sink traps and accessories - Low impact

from

Jafo AB



Programme

Programme operator

EPD registration number

Version date:

Valid until:

EPD International AB

The International EPD* System

EPD IES 0002776

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 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.





Company informati	on
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 Industries Location: Dösjebro, Sweden Name of plant: BLS Industries Location: Ystad, Sweden

Product information						
Product name(s)	Mattpaket 2021, plastmatta					
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



Benefits



THE INTERNATIONAL EPD® SYSTEM

	A1	A2	А3	A4	A5	B1-7	C1-4
pr	Extraction and processing of raw materials		Manufact- uring	Transport to end user	Installation on site	User	End of life
			L-J		%	کری ۔	EOL
			Waste		Waste		Waste
.1	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.						
			·		ipstream to the s	tudied manufac	cturing process
\ 2	Transport	to the	·	jing material.			cturing process
		to the urer	ncluding packag	ging material. s are transported udes all resource	d to the manufac	cturing site.	
/3	Transport manufact	to the urer i	The raw material	ging material. s are transported udes all resource s and packaging om the manufac	d to the manufaces used to produg material. turing site to dis	cturing site. ce and waste particular tribution centre	roduced. This a
43	Transport manufacti Manufacti	to the urer i	ncluding packag The raw material This module inclu ncludes additive Transportation from	ging material. s are transported udes all resource s and packaging om the manufac	d to the manufaces used to produg material. turing site to dis	cturing site. ce and waste particular tribution centre	roduced. This a
\3 \4	Transport manufact Manufact Transport	to the urer in Scenario to the urer in Scenario in Table 1	The raw material This module inclu ncludes additive Transportation from	ging material. s are transported udes all resource s and packaging om the manufac e to the building declared except	d to the manufactures used to product g material. turing site to discussive is included.	cturing site. ce and waste p tribution centre	roduced. This a
A4 A5	Transport manufactor Manufactor Transport Transport Construct	to the urer uring Scenario tion n	The raw material This module includes additive Transportation frodistribution centration centration from the contract of the c	s are transported udes all resource is and packaging om the manufacte to the building declared except boundary was be	d to the manufactures used to product g material. turing site to discussive is included.	cturing site. ce and waste p tribution centre	roduced. This a
A3 A4 A5 B1- B7	Transport manufacti Manufacti Transport Transport Construct installation Use stage	to the urer uring Scenario tion n auction/Dem r	The raw material This module includes additive Transportation frodistribution centration centration to the stage is not exits the system	ging material. s are transported udes all resource is and packaging om the manuface to the building declared except boundary was building declared.	d to the manufactures used to product g material. turing site to distributed. It for GWP-biogeral alanced in this nature is included.	cturing site. ce and waste p tribution centre nic arising from nodule.	roduced. This a and then from t packaging that building. This i
A44 A45 B1- B37	Transport manufacti Manufacti Transport Transport Construct installation Use stage	to the urer uring Scenario tion n e uction/Dem	This module includes additive fransportation from the franchistribution central ruck: 600km This stage is not exits the system of the franchistribution central from the franchistribution central from the franchistribution central franchistribution cen	ging material. s are transported and a sall resource is and packaging om the manuface to the building declared except boundary was building declared. des the de-constant product includes	d to the manufactures used to product g material. turing site to distributed. It for GWP-biogeral anced in this manufacture in this manufacture in this study	cturing site. ce and waste postribution centre nic arising from module. emolition of the is not used in the	roduced. This a and then from t packaging that building. This i
A2 A3 A4 A5 B1- B7 C1 C2	Transport manufactor Manufactor Transport Transport Construct installation Use stage	to the urer uring Scenario tion n e uction/Dem r	The raw material This module includes additive Transportation from the stage is not exits the system of this stage is not This stage included to trelevant as the process.	ging material. s are transported udes all resource is and packaging om the manufacte to the building declared except boundary was builded ared. les the de-constant product includes the transporter in the product in the product includes the transporter in the product in	d to the manufactures used to product of material. turing site to discussive is included. It for GWP-biogeral and this naturation and/or distance to the control of the c	cturing site. ce and waste p tribution centre nic arising from nodule. emolition of the is not used in the	roduced. This a and then from t packaging that building. This i

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.

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):

J 0110	om one 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	В3	В4	B5	В6	В7	C1	C2	C3	C4	D
Declared	X	Х	Х	Х	ND	ND	ND	ND	ND	ND	ND	ND	X	X	Х	X	Х
Geography	EU	EU	SE	EU	-	-	-	-	-	-	-	-	EU	EU	EU	EU	EU
Specific data used		8 %		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation- Products		< 10 %	, D	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation- Sites		< 10 %	Ď	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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
Plastic	0.974	0.000	0.000
Rubber	0.006	0.000	0.000
Metal	0.020	0.777	0.000
Pigments	3.29e-4	0.000	0.000
Total	1.000	0.015	0.000

Packaging Materials	Weight, kg	Weight- % (versus the product)	Weight biogenic carbon, kg C/kg		
Polyethylene (PE)	0.012	1.166	0.000		
Packaging Paper	0.013	1.271	0.005		
Corrugated Board	0.135	13.454	0.058		
Total	0.159	15.891	0.063		

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)





Environmental Information

Potential environmental impact – indicators according to EN 15804+A2

	Results per functional unit: 1 kg										
Indicator		Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D	
GWP-total		kg CO2 eq	2.99e+0	5.40e-2	2.32e-1	0.00e+0	4.50e-3	1.63e-1	1.36e+0	-1.70e+0	
GWP-fossil		kg CO2 eq	3.13e+0	5.29e-2	ND	0.00e+0	4.41e-3	1.53e-1	1.36e+0	-1.65e+0	
GWP-biogenic		kg CO2 eq	-1.41e-1	1.70e-4	2.32e-1	0.00e+0	1.42e-5	1.02e-2	5.49e-5	-4.45e-2	
GWP-luluc		kg CO2 eq	1.58e-3	9.00e-4	ND	0.00e+0	7.50e-5	1.52e-4	8.25e-6	-2.08e-4	
ODP		kg CFC-11 eq	3.44e-10	7.86e-15	ND	0.00e+0	6.55e-16	1.55e-9	9.05e-14	-3.97e-12	
AP		mole H+ eq	7.07e-3	3.39e-4	ND	0.00e+0	2.82e-5	6.16e-4	1.40e-4	-2.92e-3	
EP-freshwater*		kg P eq	3.80e-5	2.28e-7	ND	0.00e+0	1.90e-8	2.74e-5	2.06e-8	-4.53e-6	
EP-marine		kg N eq	2.26e-3	1.66e-4	ND	0.00e+0	1.38e-5	2.66e-4	3.07e-5	-8.11e-4	
EP-terrestrial		mole N eq	2.41e-2	1.84e-3	ND	0.00e+0	1.53e-4	1.98e-3	6.60e-4	-8.76e-3	
POCP		kg NMVOC eq	8.42e-3	3.28e-4	ND	0.00e+0	2.74e-5	7.19e-4	9.13e-5	-3.32e-3	
ADP-minerals & n	netals**	kg Sb eq	3.66e-6	4.65e-9	ND	0.00e+0	3.88e-10	7.26e-7	9.39e-10	-2.30e-6	
ADP-fossil**		MJ	9.76e+1	7.02e-1	ND	0.00e+0	5.85e-2	2.19e+0	1.95e-1	-5.28e+1	
WDP**		m3	1.17e+0	8.28e-4	ND	0.00e+0	6.90e-5	2.72e-2	1.26e-1	-4.86e-1	
Acronyms	Global W = Acic reaching compo	ossil = Global Warı farming Potential I lification potential freshwater end co artment; EP-terres pheric ozone; ADP letion for fossil res	and use and , Accumulate ompartment strial = Eutro -minerals&m	land use ched Exceedan EP-marine phication potentials = Abid	nange; ODP ce; EP-fresh = Eutrophic otential, Acc otic depletion	= Depletion water = Eu cation poter umulated E n potential er) deprivati	potential of trophication ntial, fraction exceedance; for non-foss	f the straton potential, n of nutrien POCP = Fo il resources	respheric ozor fraction of r ts reaching frmation pot s; ADP-fossil	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.





Use of resources

	Results per functional unit: 1 kg										
Indicator	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D		
PERE	MJ	8.98e+0	6.06e-2	ND	0.00e+0	5.05e-3	9.44e-2	5.52e-2	-2.57e+0		
PERM	MJ	1.77e+0	0.00e+0	ND	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0		
PERT	MJ	1.08e+1	6.06e-2	ND	0.00e+0	5.05e-3	9.44e-2	5.52e-2	-2.57e+0		
PENRE	MJ	8.11e+1	7.02e-1	ND	0.00e+0	5.85e-2	2.19e+0	1.95e-1	-4.40e+1		
PENRM	MJ	4.31e+1	0.00e+0	ND	0.00e+0	0.00e+0	-2.11e+1	0.00e+0	0.00e+0		
PENRT	MJ	1.24e+2	7.02e-1	ND	0.00e+0	5.85e-2	-1.89e+1	1.95e-1	-6.52e+1		
SM	kg	1.53e-4	0.00e+0	ND	0.00e+0	0.00e+0	0.00e+0	0.00e+0	1.38e-4		
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	2.57e-2	6.78e-5	ND	0.00e+0	5.65e-6	6.34e-4	2.96e-3	-1.43e-2		
Acronyms	PERN prima energ	Use of renew. 1 = Use of rene ry energy reso y resources us materials; PE al; RSF = Use o	ewable primo urces; PENR ed as raw m :NRT = Total	ary energy res E = Use of no laterials; PEN use of non-re	sources used n-renewable RM = Use of enewable pri	as raw mate primary ene non-renewa mary energy Jse of non-re	erials; PERT = rgy excluding ble primary er re-sources; SI	Total use of non-renewal nergy resourc M = Use of se	renewable ble primary es used as condary		





Additional voluntary indicators

Results per functional unit: 1 kg									
Indicator	Unit	Unit A1 - A3 A4 A5 C1 C2 C3 C4 D							
GWP-GHG	kg CO2 eq	3.24e+0	5.40e-2	ND	0.00e+0	4.50e-3	1.63e-1	1.36e+0	-1.70e+0
EP	kg PO4 eq	5.12e-4	0.00e+0	ND	0.00e+0	0.00e+0	0.00e+0	5.38e-8	-2.14e-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	3.64e-8	2.69e-11	ND	0.00e+0	2.24e-12	0.00e+0	1.14e-10	-6.44e-9
NHWD	kg	4.21e-2	1.15e-4	ND	0.00e+0	9.55e-6	0.00e+0	1.81e-2	-2.26e-2
RWD	kg	1.10e-3	1.28e-6	ND	0.00e+0	1.07e-7	0.00e+0	9.95e-6	-3.17e-3
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	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	5.57e-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
DB-Lås II, dubbelt m slang	0.540	рс
DB-Lås II, dubbelt m teleskoprör	0.654	рс
DB-Lås II, enkelt endast vattenlås	0.424	рс
DB-Lås II, enkelt m teleskoprör	0.539	рс
DB-Lås II, enkelt med slang	0.425	рс
DB-Lås II, utan teleskoprör	0.537	рс
DB-flänsöverg. för disklåda G 1 1/2, grå	0.072	рс
Förhöjningsring PF 100, kapbar 35-100mm	0.352	рс
Förhöjningsring PF 37, höjer 37 mm	0.143	рс
Golvhuv för WC-stos	0.062	рс
Klinkerramsförhöjning JKF 10, höjer 10 mm	0.042	рс
Klämring i grå plast med rfr skruv. Original till 86:an	0.089	рс
Klämring ställbar, för gamla 150 brunnar	0.360	рс
Mattpaket 2021, Svart plastmatta	0.161	рс
Mattpaket 2021, plastmatta	0.170	рс
Mattpaket 2021, plastmatta. Grå klämring och sil	0.170	рс
Mattpaket, plastmatta, B-Pack	0.248	рс
P-vattenlås av svart PP, 110mm	0.612	рс
PBU 110 Plast Botten, UMP	0.231	рс
PBX 110, Plast Botten eXtra inl. UMP	0.376	рс

Name	Weight, kg	Unit
Propp för diskmaskinsansl.	0.003	рс
Sil 2015 grå PP, utan urtag	0.095	рс
Sil 2015 svart PP, utan urtag	0.095	рс
Sil 2015 vit PP, utan urtag	0.095	рс
Sil 2021 grå PP, utan urtag	0.086	рс
Sil 2021 svart PP, utan urtag	0.086	рс
Sil 2021 vit PP, utan urtag	0.086	рс
Sil av vit PP med urtag, gammal modell	0.069	рс
Sil av vit PP utan urtag, gammal modell	0.057	рс
Sil av vit PP, utan urtag, centrisk	0.095	рс
Spolbrunn 110 x 110, Kort stigarmuff	0.822	рс
Spolbrunn 110 x 110, Lång stigarmuff, 3 muffar	0.801	рс
Spolbrunn 110 x 200, 3 muffar	0.915	рс
Spolbrunn 160 x 110, 3 muffar	1.939	рс
Spolbrunn 160 x 160, 3 muffar	2.529	рс
Spolbrunn 160 x 200, 3 muffar	2.298	рс
Vattenlås till 86:an. Grå	0.094	рс
Vattenlåsinsats, PS 75 XTRA, PS 75 TRA	0.083	рс
Vattenlåsinsats, PS 75 XTRA, PS 75 TRA	0.083	рс
Vattenlåsinsats, PSX, PBX, PS 50, ROT	0.093	рс





Product Table

Name	Weight, kg	Unit
86:an Lågbyggd med klämring utan sil	0.415	рс
86:an Ø50 Lågbyggd med klämring utan sil	0.408	рс
Förhöjningsring PF 12, höjer 12 mm	0.119	рс
Förhöjningsring PF 25, höjer 25 mm	0.169	рс
Klämring i vit plast med rfr skruv	0.084	рс
PB 110, Plast Botten, UMP	0.231	рс
PB 75 Plast Botten, UMP	0.349	рс
PBL 50, Plast Botten Långt utl. UMP	0.421	рс
PBL 75, Plast Botten Långt utl. UMP	0.456	рс
PBL 75, Plast Botten Långt utl. UMP	0.456	рс
PBX 110, Plast Botten eXtra inl, UMP	0.514	рс
PBX 75, Plast Botten eXtra inl. UMP	0.295	рс
PS 50 M2, Plast Sida, MP	0.534	рс
PS 50 ROT, Plast Sida, UMP	0.366	рс
PS 75 D Plast Sida Djup utlopp, UMP	0.392	рс
PS 75 ROT GR, Plast Sida, MP	0.728	рс
PS 75 ROT M2, Plast Sida, MP	0.564	рс
PS 75 ROT, Plast Sida, UMP	0.396	рс
PS 75 TRA, Plast Sida Träbjälklag, UMP	0.397	рс
PS 75 X, Plast Sida eXtra inl. UMP	0.451	рс

Name	Weight, kg	Unit
PS 75 XTRA, Plast Sida eXtra inl. UMP	0.397	рс
PS 75, Plast Sida, UMP	0.368	рс
PSU 32, Plast Sida Utan vattenlås, UMP	0.157	рс
PSX 75 Plast Sida eXtra inl. UMP	0.284	рс

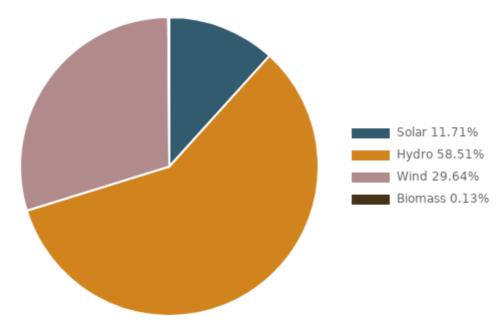




Energy Breakdown Electricity used in the manufacturing

Name	Data source	GWP excl. biogenic [kg CO2-eq/kWh]
Electricity Mix - BLS Industries (2023)	CarbonZero (2023)	1,11E-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.





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