

iBVD

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5562742758-00046
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3

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2019-03-05
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2026-07-03



Uppgiftslämnaren reserverar sig för eventuella fel i produktinformationen eller felaktigt registrerade uppgifter och förbehåller sig rätten att korrigera och/eller komplettera produktinformation utan föregående avisering

1

GRUNDDATA

Varubeskrivning

Klammer i plast för klamring av tomrör. Klammern har två förmonterade skruvar, Torx 20. Bitz levereras med i spannen.

Beakta att kall- och varmvattenledningar ska vara monterade så att de inte kommer i kontakt med varandra.

Övriga upplysningar

Klassificeringar

ETIM >	-EC000368 - Rörklammer
BK04 >	-20505 - Tappvattensystem -20506 - Golvvärme vattenburen
BSAB >	-P - P - Apparater, ledningar m m i rörsystem eller rörledningsnät
UNSPSC >	

Leverantörsuppgifter

Företagsnamn
LK Systems AB

Organisationsnummer
5562742758

Adress
Johannesfredsvägen 7

Hemsida
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Miljökontaktperson

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HÅLLBARHETSARBETE

Företagets certifiering

- ISO 9001
- ISO 14001

Policys och riktlinjer

3

INNEHÅLLSDEKLARATION

Kemisk produkt	Nej
Innehåller produkten elektronik	Nej
Omfattas varan av RoHS-direktivet	Nej
Varans vikt	0,01 - 0,13 kg

Vara / Delkomponenter

Koncentrationen har beräknats på hela varan

Ingående material /komponenter	Vikt-% i komponent	CAS-nr (alt legering)	EG-nr (alt legering)	Vikt % i produkt	Kommentar
Stål, elförzinkat		Övrigt, metaller		30 - 40%	
1-Propene, homopolymer, PP, PPH, (Polypropen)		9003-07-0		50 - 70%	

Del av materialinnehållet som är deklarerat 80% - 110%

Särskilt farliga ämnen

Varan innehåller INTE några ämnen med särskilt farliga egenskaper (Substances of very high concern, SVHC-ämnen) som finns med på kandidatförteckningen i en koncentration som överstiger 0,1 vikts-%

Utgåva av kandidatförteckningen som har använts

2026-07-03

Nanomaterial

Innehåller produkten tillsatt nanomaterial, som är medvetet tillsatta för att uppnå en viss funktion?: Nej

Tillsatt högflourerade ämnen (PFAS)

Innehåller produkten tillsatt högflourerade ämnen (PFAS), som är aktivt tillsatta för att uppnå en specifik funktion?: Nej

Begränsningslistan

Innehåller varan/produkten, eller någon av dess delkomponenter, ämnen som gör att produkten inte uppfyller villkoren i Begränsningslistan (Reach Bilaga XVII)?: Nej

POPs-förordningen

Innehåller varan (eller någon av dess delkomponenter) ämnen som finns i POPs-förordningen?: Nej

Övrigt

Ämnen är redovisade ned till 0,01% viktprocent enligt iBVDs redovisningskrav. Eventuell avvikelse från redovisningskraven redovisas nedan

4

RÅVAROR

Återvunnet material

Innehåller varan återvunnet material: Nej

Träråvara

Träråvara ingår i varan: Nej

5

MILJÖPÅVERKAN

Finns en miljövarudeklaration framtagen enligt EN15804 eller ISO14025 för varan

Ja

Finns annan miljövarudeklaration

Nej

6

DISTRIBUTION

Beskrivning av emballagehantering för distribution av varan

Förpackningsmaterial är kartong. LK Systems är ansluten till förekommande retursystem

7

BYGGSCKEDET

Ställer varan särskilda krav vid lagring?

Nej

Ställer varan särskilda krav på omgivande byggvaror?

Nej

8

BRUKSSKEDET

Finns skötselanvisningar/skötselråd?

Nej

Finns en energimärkning enligt energimärkningsdirektivet (2017/1369/EU) för varan?

Ej relevant

9

RIVNING

Kräver varan särskilda åtgärder för skydd av hälsa och miljö vid rivning/demontering?

Nej

10

AVFALLSHANTERING

Omfattas den levererade varan av förordningen (2014:1075) om producentansvar för elektriska och elektroniska produkter när den blir avfall?

Nej

Är återanvändning möjlig för hela eller delar av varan?

Ja

Går att återmontera

Är materialåtervinning möjlig för hela eller delar av varan?

Ja

Stål går att återvinna

Är energiåtervinning möjlig för hela eller delar av varan?

Ja

Plast är brännbart

Har leverantören restriktioner och rekommendationer för återanvändning, material- eller energiåtervinning eller deponering?

Nej

När den levererade varan blir avfall, klassas den då som farligt avfall?

Nej

Avfallskod (EWC) för den levererade varan

170203

RSK-nummer	Eget Artikel-nr	GTIN
188 07 62		7331590036579
188 07 63		7331590036609
188 24 00		7331590053446

Produktdatablad

Prestandadeklaration

Säkerhetsblad

RoHS-intyg

Miljövarudeklaration EPD - LK Pipe- holder and protector, made of thermoplastic.pdf

Skötselanvisning

Övriga bifogade dokument

Environmental Product Declaration

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

LK Pipe- holder and protector, made of thermoplastic

LK Systems AB

The EPD includes multiple products

Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
EPD registration number:	S-P-09681
Publication date:	2023-09-08
Valid until:	2028-09-08



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

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

Product category rules (PCR): 2019:14, Construction products (EN 15804:A2) (1.2.5)

PCR review was conducted by: Claudia A. Peña, The Technical Committee of the International EPD® System.

Contact: info@environdec.com

Independent third-party verification of the declaration and data, according to ISO 14025:2006:

☐ EPD process certification ☒ EPD verification

Third party verifier:

Daniel Böckin, PhD

Miljögiraff AB, daniel@miljogiraff.se

Approved by: The International EPD® System.

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 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

LK Systems AB
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Sweden

Contact

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LK Systems is the leading manufacturer of easy-to-install systems for heating and tap water distribution in the Nordic region. Our prefabrication factory provides customized solutions to simplify the installation process even further. From idea to final solution, you can be sure of the smartest answers for your everyday challenges, today and tomorrow.

For the simpler, smarter everyday

Simpler. Smarter. More sustainable. At LK, we believe there's a better way to do everything. That's why – from water, heating and hydronic solutions to pipe extrusion – we push for innovation over status quo and simplicity over complexity. It's a belief all of us at LK apply to every product and solution we create.

Location of production site:

Sweden, Denmark, Germany, Italy & Poland

Product information

LK Pipe- holder and protector are installation components that are meant to be used to either hold the pipes in place when installed or for protecting pipe ends during installation. The installation can take place both inside and outside LKs cabinets. The products come in different versions to match the installation and pipe dimensions.

See additional information for product included.

Further information can be found at <https://www.lksystems.se/>

The EPD is an EPD of multiple products that represents several product versions, that comes in different sizes and shapes. The result presented in the EPD has the highest result of all products declared and is based on a "worst-case" product. The production process flow includes the same steps at all manufacturing sites. However, since manufacturing occurs in various countries, energy usage plays a significant role in the outcome of the environmental impact. As a result, the difference in environmental impact can vary by up to 31% between products. See additional information for total weight of the products included in the EPD.

LCA information

Functional unit / declared unit

In accordance with EN 15804 + A2 the declared unit is 1 kg of mass.

Time representativeness

2022

Database

Ecoinvent 3.9.1. - "allocation cut off by classification" is used throughout the study.

LCA software used

SimaPro 9.5.

Geographical scope

Production: Europe

Construction site: Sweden

Specific name and location of manufacturing plants are confidential and only included in LCA report

LCA Report

LK Systems AB, Report no. 26

Description of system boundaries

The scope of the EPD is cradle to gate with options, including A4, A5, C, and D. Table 1 shows the declared modules. The system boundary includes all processes needed for raw material extraction, transport, manufacturing, and disposal. Figure 1 provides an overview of the included processes.

	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	Rause-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	X	ND	ND	ND	ND	ND	ND	ND	X	X	X	X				X	
Geography	EU	EU	PL	EU	SE								SE	SE	SE	SE				SE	
Specific data used	38%					-	-	-	-	-	-	-	-	-	-	-	-			-	
Variation, products	31%					-	-	-	-	-	-	-	-	-	-	-	-			-	
Variation, sites	31%					-	-	-	-	-	-	-	-	-	-	-	-			-	
X = Modules included in the analysis ND = Module not declared O= Optional modules																					

Table 1. Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation.

Content information

Table 2, shows the weight of the raw material of the declared product.

Product components	Weight, kg	Pre-consumer material, weight-%	Post-consumer material, weight-%	Renewable material, weight-%
Thermoplastic	1	0	0	0
TOTAL	1	0	0	0
Packaging materials	Weight, kg	Weight-% (versus the product)		
Cardboard box	0,1	10		
Plastic	0,06	6		
Pallet	0,00008	0,008		
TOTAL	0,16	16		

The declared product contains no dangerous substances from the candidate list of SVHC for Authorization.

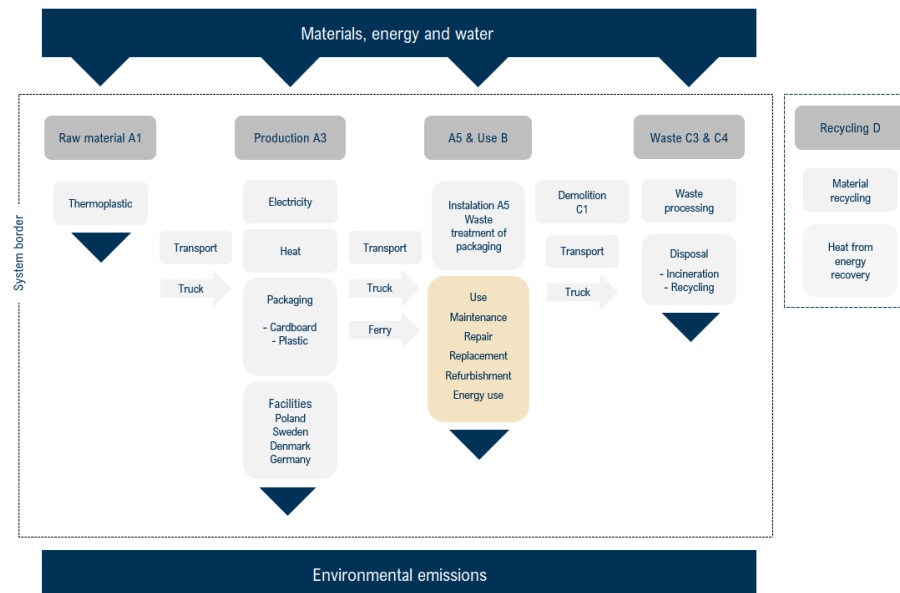


Figure 1, overview of the included processes.
Light gray represents modules included.
Yellow represents modules not declared.

Product life-cycle

Raw material supply, transport & manufacturing (A1-A3)

The manufacturing process includes the manufacturing of the raw materials used for the final product. After the manufacturing of the product is completed, it is packed in a plastic bag and then cardboard box, which is then stacked on a pallet and then transported to warehouse. The production process flow contains the same steps in all manufacturing locations. See figure 2 below for the process flow step by step.

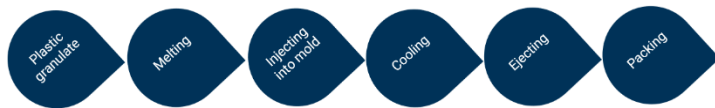


Figure 2, Production process flow.

Transport & installation (A4-A5)

Transportation impacts represent the transport from warehouse to the construction site. The transport distance is based on the average distance and is performed by truck using fuel. It is assumed that there are no environmental aspects during the installation of the product, except for the waste management of the packaging after installation.

Product End-of-Life (C1-C4, D)

The end-of-life stage (C1) of the product is assumed to have no environmental impacts during the demolition of the product. When the building where the product is installed is demolished, it is assumed that the product will be transported 50 km to the nearest waste disposal facility and then material recycled at 13% (Naturvårdsverket, 2023), while the remaining 87% will end up in combustible waste. The cardboard box is assumed to be material recycled at 78% (Fråne, A. et al., 2021),

while the remaining 22% is assumed to end up in combustible waste. The product and packaging are assumed to be sent to the nearest waste facility. In the resource recovery stage, the benefits will be mostly energy recovery, with a smaller portion dedicated to material recycling.

Cut-off rules

According to EN 15804, life cycle inventory data shall include a minimum of 95% of total inflows (mass and energy) per module. If less than 100% of the inflows are accounted for, proxy data or extrapolation should be used to achieve 100% completeness.

Background data

The data quality of the background data is considered good. All specific data, including processes and volume of different materials, has been collected by questionnaire and through personal contact with the manufacturer. The Ecoinvent database, which is the world's largest LCI data library, has been used. It contains data for specific geographical regions relevant to this study, which have been analyzed to be the most suitable for the various steps in the process. Information on biogenic carbon content is calculated using the formula from EN 350-2 and information from IVL. The collected data represent average yearly data for 2022 and are assumed to be representative for the EPDs period of validity of 5 years.

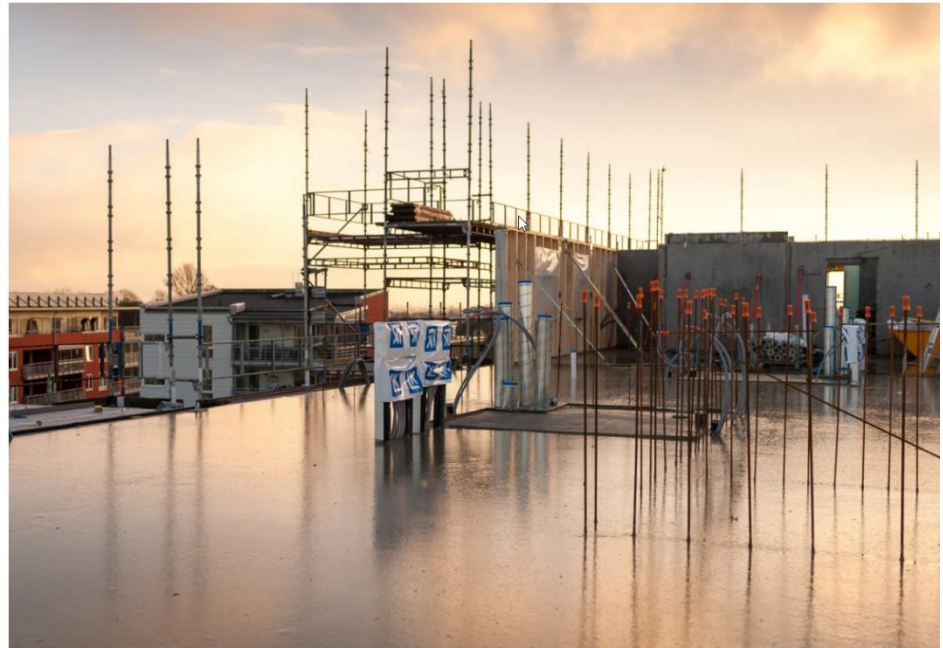
Electricity data

The electricity used in stage A3 accounts for less than 30% of the total energy used in stages A1-A3.

Allocation and assumptions

The declared unit values for 1 kg of product. The packaging can vary slightly between different products. The content of raw material for the packaging can vary slightly between the different products declared and “worst-case” scenario is used.

The used product is assumed to be transported 50 km to the nearest waste disposal facility. The waste treatment assumes that the product is installed in the building and deconstructed when the building is demolished. The product is assumed to be material recycled at 13%, and the cardboard box is assumed to be material recycled at 78%. The remaining plastic in the product and the plastic packaging are assumed to be incinerated with energy recovery efficiency at 61%.



Recycling of packaging and product

As part of our producer responsibility framework, LK is affiliated with FTI, the Packaging and Newspaper Collection, which is the business community's collection system for recycling packaging. The product is to be recycled as plastic and the packaging as cardboard and plastic. None of the recycled materials are classified as hazardous waste.

Environmental information

Potential environmental impact – mandatory indicators according to EN 15804.

Results of declared unit of the study.

Indicator	Unit	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-fossil	kg CO2 eq.	5,20E+00	6,88E-02	1,43E-01	0	7,43E-03	2,04E+00	0	-3,49E-01
GWP-biogenic	kg CO2 eq.	-7,55E-02	6,22E-05	3,48E-02	0	6,23E-06	2,55E-04	0	1,68E-02
GWP-luluc	kg CO2 eq.	3,42E-03	3,34E-05	3,66E-06	0	3,63E-06	4,20E-05	0	-1,85E-03
GWP-total	kg CO2 eq.	5,13E+00	6,89E-02	1,78E-01	0	7,44E-03	2,04E+00	0	-3,34E-01
ODP	kg CFC 11 eq.	5,95E-08	1,50E-09	8,91E-10	0	1,63E-10	1,20E-08	0	-1,13E-08
AP	mol H+ eq.	2,56E-02	2,24E-04	4,93E-05	0	3,47E-05	5,15E-04	0	-3,01E-03
EP-freshwater	kg P eq.	1,42E-03	4,81E-06	9,52E-07	0	5,36E-07	1,15E-05	0	-8,21E-05
EP-marine	kg N eq.	4,61E-03	7,71E-05	2,47E-05	0	1,38E-05	2,65E-04	0	-8,95E-04
EP-terrestrial	mol N eq.	4,68E-02	8,15E-04	2,26E-04	0	1,47E-04	2,37E-03	0	-1,16E-02
POCP	kg NMVOC eq.	1,76E-02	3,35E-04	6,14E-05	0	5,15E-05	6,18E-04	0	-2,64E-03
ADP-minerals&metals ²	kg Sb eq.	1,35E-05	2,21E-07	1,95E-08	0	2,31E-08	2,12E-07	0	-1,41E-06
ADP-fossil ²	MJ	1,18E+02	9,75E-01	5,17E-02	0	1,07E-01	3,91E-01	0	-1,03E+01
WDP ²	m3	1,04E+00	3,97E-03	1,73E-03	0	4,67E-04	2,19E-02	0	-2,12E-01

Acronyms

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

Potential environmental impact – additional mandatory indicators according to EN 15804.

Indicator	Unit	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
Particulate matter	disease inc.	1,68E-07	5,48E-09	1,06E-09	0	7,32E-10	3,62E-09	0	-3,92E-08
Ionising radiation ¹	kBq U-235 eq	1,21E-01	1,31E-03	2,46E-04	0	1,48E-04	2,99E-03	0	-2,34E-02
Ecotoxicity, freshwater ²	CTUe	3,16E+01	9,62E-01	8,09E-01	0	1,06E-01	1,02E+01	0	-2,96E+00
Human toxicity, cancer ²	CTUh	3,04E-09	6,25E-11	5,83E-11	0	8,00E-12	7,86E-10	0	-5,07E-10
Human toxicity, non-cancer ²	CTUh	8,49E-08	5,82E-01	2,22E-02	0	8,07E-02	1,14E-01	0	-4,17E+01
Land use ²	Pt	1,98E+01	1,37E-09	5,15E-10	0	1,66E-10	5,54E-09	0	-1,40E-08

Disclaimer 1 – 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 2 – 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.

Climate impact IPCC GWP 100

Indicator	Unit	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-GHG	kg CO2 eq.	5,21E+00	6,89E-02	1,43E-01	0	7,44E-03	2,04E+00	0	-3,58E-01

The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product.

This indicator is thus almost equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

Use of resources

Indicator	Unit	Tot.A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	3,88E+00	1,51E-02	3,16E-03	0	1,70E-03	3,83E-02	0	-9,90E+00
PERM	MJ	4,00E+00	0	0	0	0	0	0	0
PERT	MJ	7,88E+00	1,51E-02	3,16E-03	0	1,70E-03	3,83E-02	0	-9,90E+00
PENRE	MJ	1,26E+02	1,04E+00	5,52E-02	0	1,14E-01	4,18E-01	0	-1,11E+01
PENRM	MJ	0	0	0	0	0	0	0	0
PENRT	MJ	1,26E+02	1,04E+00	5,52E-02	0	1,14E-01	4,18E-01	0	-1,11E+01
SM	kg	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0
FW	m3	1,62E-02	1,62E-04	1,17E-04	0	1,94E-05	1,12E-03	0	-3,32E-03

Acronyms

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 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

Information on biogenic carbon content

Results per functional or declared unit

Biogenic carbon content	Unit	Quantity
Biogenic carbon content in product	kg C	0
Biogenic carbon content in packaging	kg C	2,93E-02

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO₂.

Additional information

Product	Product number	Weight (kg)	Product	Product number	Weight (kg)	Product	Product number	Weight (kg)
LK Protection Cap	1872231	0,004	LK Cover Plate	1872391	0,003	LK Fixing Plate	1870574	0,03
LK Protection Cap	1872232	0,005	LK Cover Plate	1872392	0,012	LK Fixing Plate	1872216	0,01
LK Protection Cap	1872233	0,005	LK Staples	2417297	0,51	LK Pipe Sleeve	4814350	0,2
LK Protection Cap	1872642	0,003	LK Staples	2418147	0,6	LK Pipe Holder	2417517	0,002
LK Protection Cap	1872643	0,003	LK End Protection	4814369	0,001	LK Pipe Bending Support	2417560	0,06
LK Protection Cap	1872644	0,006	LK End Protection	4814370	0,001	LK Pipe Holder	2417736	0,01
LK Protection Cap	1882396	0,02	LK End Protection	4814371	0,001	LK Pipe Holder	2418108	0,002
LK Protection Cap	1882397	0,025	LK End Flange	1872222	0,008	LK TB Staple	2434776	0,001
LK Sealing Plug	1882213	0,07	LK Marking plate	2419362	0,002	LK Pipe Holding Nail	2419486	0,009
LK Plastic Clip for conduit	1880762	0,01	LK Staples	1880671	1,5	LK End Protection	4814393	0,003
LK Plastic Clip for conduit	1880763	0,013	LK Staples	2434998	0,88	LK Bushing sleeve	1955447	0,03
LK Plastic Clip for conduit	1882400	0,012	LK End Flange	1872221	0,01	LK Bushing sleeve	1955448	0,03
PRV 901 IC	5401120	0,1	LK End Flange	1881213	0,007	LK Bushing sleeve	1955449	0,04
PRV 901 PG	5401121	0,02	LK Fixing Plate	2417902	0,076	LK Bushing sleeve	1955450	0,04
LK Cover Plate	1872388	0,003	LK Bushing sleeve	1882147	0,065	LK Bushing sleeve	1955451	0,02
LK Cover Plate	1872389	0,003	LK Bushing sleeve	1882148	0,078	LK Combi Pipe Sleeve	4814368	0,08
LK Cover Plate	1872390	0,002	LK Drainage elbow	1882612	0,053			

References

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

PCR Construction Products. 2019:14, version 1.2.5, the International EPD System, Date 2022-11-01.

EN 15804:2012+A2:2019/AC:2021, "Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products"

EN ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures, Edited in 2010

EN ISO 14040:2006 Environmental management - Life cycle assessment - Principles and framework, 2006.

EN ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines, 2006.

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Ahmad, N. et al., (2017) Liquefaction of natural rubber to liquid fuels via hydrous pyrolysis, Liquefaction of natural rubber to liquid fuels via hydrous pyrolysis | Elsevier Enhanced Reader

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