

iBVD

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1

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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

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## GRUNDDATA

### Varubeskrivning

För tätning mellan media- och tomrör.

### Övriga upplysningar

### Klassificeringar

|          |                                                                    |
|----------|--------------------------------------------------------------------|
| ETIM >   | -EC003889 - Ändtätning för skyddsör                                |
| BK04 >   | -20505 - Tappvattensystem<br>-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

www.lksystems.se

#### Miljökontaktperson

##### Namn

Hans Bramevik

##### Telefon

0406985000

##### E-post

info@lksystems.se

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## HÅLLBARHETSARBETE

#### Företagets certifiering

- ISO 9001
- ISO 14001

#### Policys och riktlinjer

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## INNEHÅLLSDEKLARATION

|                                   |                 |
|-----------------------------------|-----------------|
| Kemisk produkt                    | Nej             |
| Innehåller produkten elektronik   | Nej             |
| Omfattas varan av RoHS-direktivet | Nej             |
| Varans vikt                       | 0,003 - 0,01 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 |
|---------------------------------------------|--------------------|-----------------------|----------------------|------------------|-----------|
| Termoplastisk Elastomer, TPE, ospecificerad |                    | Övrigt, polymer       |                      | 100%             | Se bilaga |

Del av materialinnehållet som är deklarerat 100%

#### 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  
2024-06-25

#### 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

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## RÅVAROR

#### Återvunnet material

Innehåller varan återvunnet material: Nej

#### Träråvara

Träråvara ingår i varan: Nej

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## MILJÖPÅVERKAN

Finns en miljövarudeklaration framtagen enligt EN15804 eller ISO14025 för varan

Ja

Finns annan miljövarudeklaration

Nej

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## DISTRIBUTION

Beskrivning av emballagehantering för distribution av varan

Förpackas i plastpåse. LK Systems ingår i förekommande producentansvar för förpackningar.

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## 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

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## 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?

Nej

Är materialåtervinning möjlig för hela eller delar av varan?

Ja

Sorteras som plast

Är energiåtervinning möjlig för hela eller delar av varan?

Ja

Brännbar

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          |
|------------|-----------------|---------------|
| 481 43 93  |                 | 7331590011132 |

**Produktdatablad**

**Prestandadeklaration**

**Säkerhetsblad**

**RoHS-intyg**

**Miljövarudeklaration**      EPD\_123\_1872231.pdf

**Skötselanvisning**

**Övriga bifogade dokument**

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# 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 <sup>®</sup> System, <a href="http://www.environdec.com">www.environdec.com</a> |
| 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](http://www.environdec.com)

**E-mail:**

[info@environdec.com](mailto: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](mailto: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](mailto: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  
Johannesfredsvägen 7  
168 69 Bromma  
Sweden

### Contact

info@lksystems.se  
<https://www.lksystems.se/>

**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       |           |               | Constru-<br>ction<br>process<br>stage |                           | Use stage |             |        |             |               |                           |                       | End of life stage          |           |                  |          | Resource<br>recovery<br>stage          |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------|-----------|---------------|---------------------------------------|---------------------------|-----------|-------------|--------|-------------|---------------|---------------------------|-----------------------|----------------------------|-----------|------------------|----------|----------------------------------------|
|                                                                                                                             | Raw material supply | Transport | Manufacturing | Transport                             | Construction installation | Use       | Maintenance | Repair | Replacement | Refurbishment | Operational<br>energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery-Recycling-<br>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 |                     |           |               |                                       |                           |           |             |        |             |               |                           |                       |                            |           |                  |          |                                        |

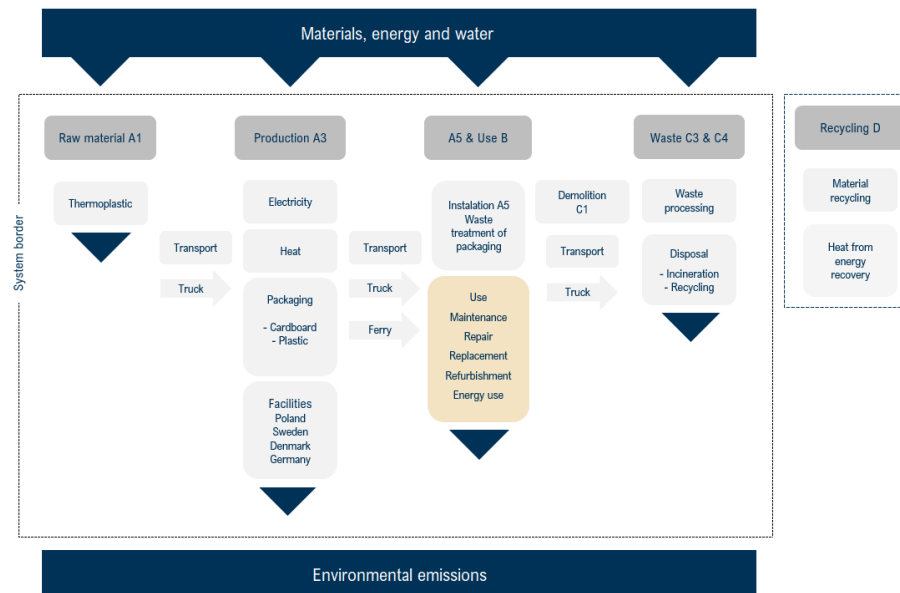
**Table 1.** Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation.

## 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.

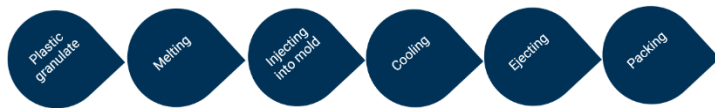


Figure 2, Production process flow.

### 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.

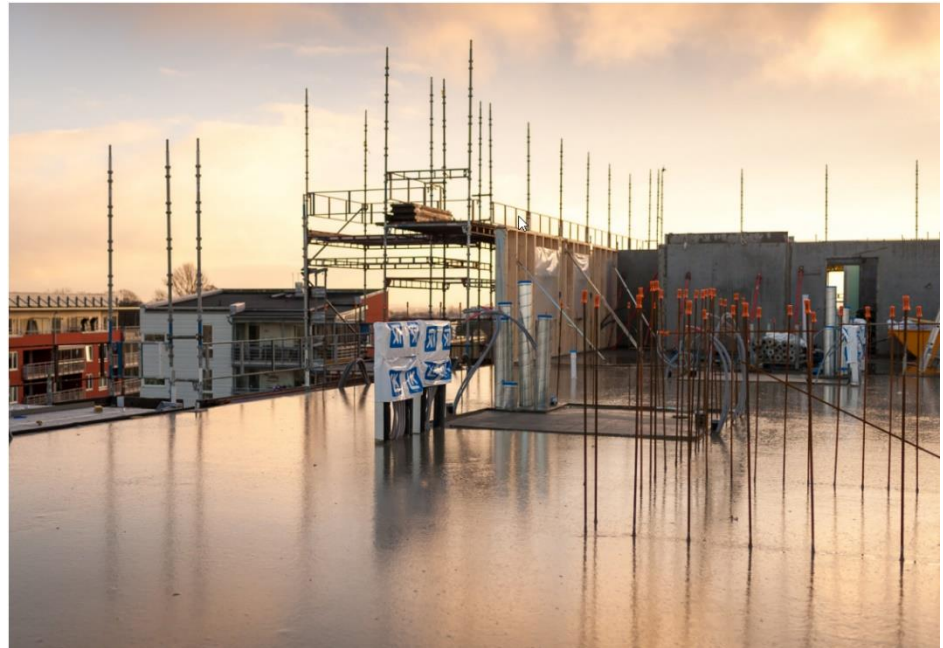
### Electricity data

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 <sup>2</sup> | 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 <sup>2</sup>          | MJ            | 1,18E+02  | 9,75E-01 | 5,17E-02 | 0  | 1,07E-01 | 3,91E-01 | 0  | -1,03E+01 |
| WDP <sup>2</sup>                 | 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 <sup>1</sup>         | 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 <sup>2</sup>    | CTUe         | 3,16E+01  | 9,62E-01 | 8,09E-01 | 0  | 1,06E-01 | 1,02E+01 | 0  | -2,96E+00 |
| Human toxicity, cancer <sup>2</sup>     | 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 <sup>2</sup> | CTUh         | 8,49E-08  | 5,82E-01 | 2,22E-02 | 0  | 8,07E-02 | 1,14E-01 | 0  | -4,17E+01 |
| Land use <sup>2</sup>                   | 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 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





## 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 CO<sub>2</sub>.*

## 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       |                         |                |             |

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