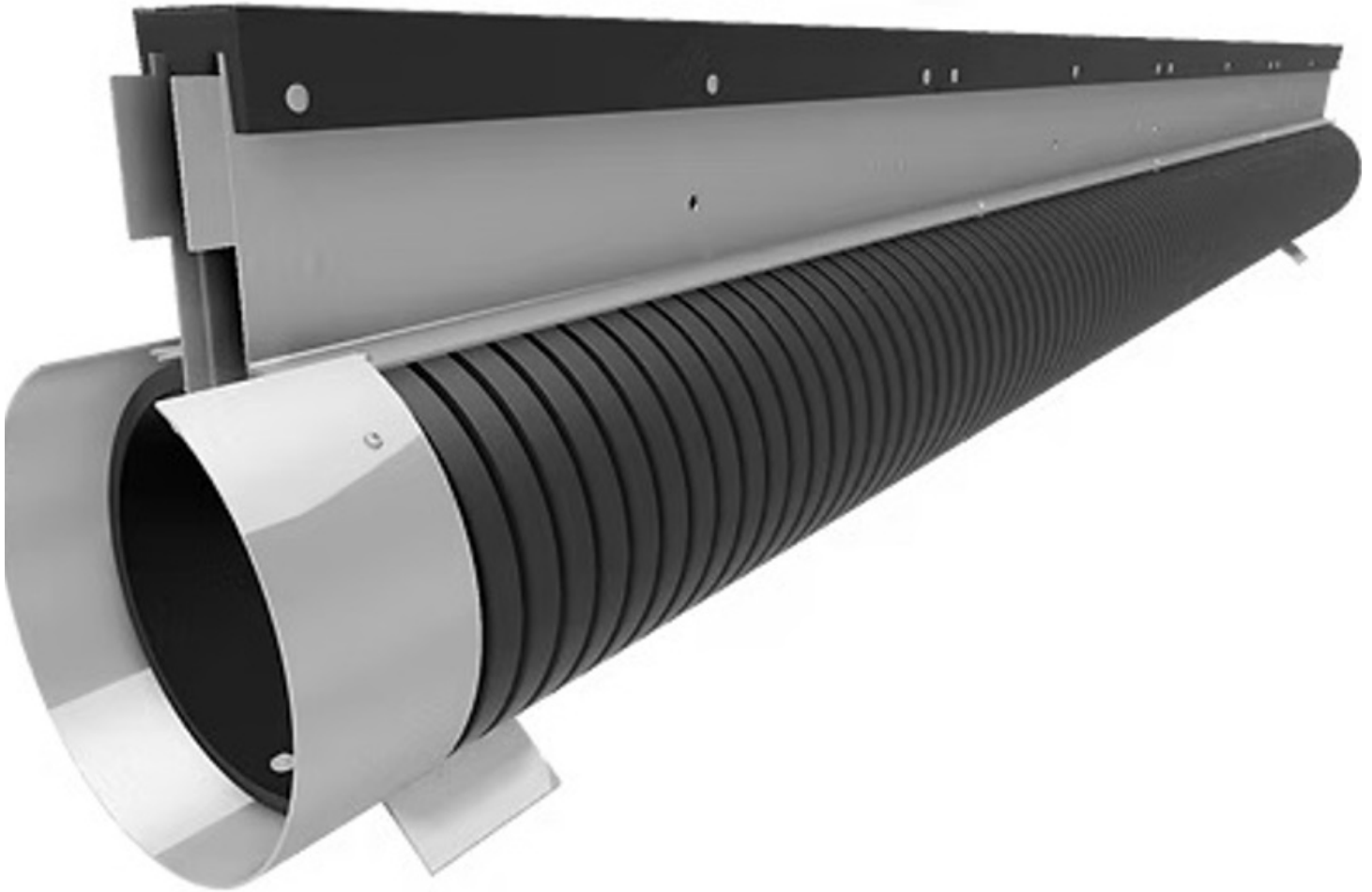


# ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 and EN15804+A2

## Swarm Aqua® Linear Slot Drainage

**Owner of the declaration:**

EJ

**Product:**

Swarm Aqua® Linear Slot Drainage

**Declared unit:**

1 kg

**This declaration is based on Product Category Rules:**

EN 15804:2012+A2:2019, EPD Ireland PCR Part A,  
Version 2.1, 2022

EPD Ireland PCR Part A, Version 2.1, 2022

**Program operator:**

EPD Ireland

**Declaration number:**

EPDIE-25-261

**Issue date:**

30.04.2026

**Valid to:**

29.04.2031

## General information

### Product

Swarm Aqua® Linear Slot Drainage

### Program operator:

EPD Ireland  
19 Mountjoy Square, Dublin D01 E8P5  
Phone: +353 (01) 6815862  
web: <https://www.igbc.ie/epd-home/>

### Declaration number:

EPDIE-25-261

### This declaration is based on Product Category Rules:

EN 15804:2012+A2:2019, EPD Ireland PCR Part A, Version 2.1, 2022  
EPD Ireland PCR Part A, Version 2.1, 2022

### Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. The EPD Program operator shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

### Type of EPD

Average product EPD

### Declared unit:

1 kg Swarm Aqua® Linear Slot Drainage

### Scope of the EPD:

A1, A2, A3, A4, A5, C1, C2, C3, C4, D

### Functional unit:

Not relevant

### Verification:

Independent verification of the declaration and data, according to ISO14025:2010

Third party verifier:  
Stephen Forson

### Owner of the declaration:

EJ  
Contact person: Brian Kelly  
Phone: +353579120277  
e-mail: [brian.kelly@ejco.com](mailto:brian.kelly@ejco.com)

### Manufacturer:

E J UK Fabrication & Access Solutions Ltd.

### Place of production:

E J UK Fabrication & Access Solutions Ltd.  
EJ UK  
CV11 6RZ Nuneaton, United Kingdom

### Issue date:

30.04.2026

### Valid to:

29.04.2031

### Year of study:

2025

### Comparability:

Environmental Product Declarations from different programmes may not be directly comparable if not compliant with EN 15804:2012+A2:2019. Comparability is further dependent on the specific product category rules, system boundaries and allocations, and background data sources. See clause 5.3 of EN 15804:2012+A2:2019

LCA consultant or person responsible for LCA:  
Bernardo Salomon - Goodbody Clearstream

### Approved:

SIGNATURE OF PROGRAMME OPERATOR



Pat Barry, CEO - Irish Green Building Council

## Product

### Product description:

A hybrid linear slot drainage system manufactured in the UK. Modules are supplied with push-fit interlocking sections for efficient installation in heavy-duty applications such as car parks, loading bays, and airports. For the LCA representative unit assessed in this study, the dimensions are: weight 1kg; overall height 348 mm; invert 328 mm; overall width 578 mm; overall depth 478 mm. The drainage channel selected for the study is composed of a ductile iron top casting (63%), a steel top assembly (29%), a twinwall polypropylene pipe (8%), and low-alloy steel fixings (1%). The product is manufactured to BS EN 1433.

### Product specification:

Loading D400 – F900. Size ranges from 150mm diameter to 600mm diameter.

### Technical data:

The system combines a ductile iron top section with steel side walls and a recycled HDPE twinwall conduit. It is available in widths of 150–600 mm, 2m lengths and load classes up to and including F900.

More information available on:

<https://www.ejco.com/gb/en/resource-center/product-briefs/the-swarm-aqua-system>

Representative product for study:

- SA150F

Additional configurations available:

| Range  | Code     | Description                                                | Grate   | Loading | Weight |
|--------|----------|------------------------------------------------------------|---------|---------|--------|
| SA150D | 93160100 | 150mm Dia. Swarm Aqua D400 278mm Invert 408mm High 2m Long | Ductile | D400    | 35     |
| SA225D | 93160104 | 225mm Dia. Swarm Aqua D400 365mm Invert 495mm High 2m Long | Ductile | D400    | 40     |
| SA150F | 93160102 | 150mm Dia. Swarm Aqua F900 328mm Invert 478mm High 2m Long | Ductile | F900    | 34     |
| SA225F | 93160105 | 225mm Dia. Swarm Aqua F900 415mm Invert 565mm High 2m Long | Ductile | F900    | 38     |
| SA300F | 93160108 | 300mm Dia. Swarm Aqua F900 504mm Invert 654mm High 2m Long | Ductile | F900    | 41     |
| SA375F | 93160111 | 375mm Dia. Swarm Aqua F900 576mm Invert 726mm High 2m Long | Ductile | F900    | 44     |
| SA450F | 93160114 | 450mm Dia. Swarm Aqua F900 662mm Invert 812mm High 2m Long | Ductile | F900    | 48     |
| SA600F | 93160117 | 600mm Dia. Swarm Aqua F900 830mm Invert 980mm High 2m Long | Ductile | F900    | 53     |
| SA150P | 93160103 | 150mm Dia. Swarm Aqua D400 278mm Invert 408mm High 2m Long | Steel   | D400    | 15     |
| SA225P | 93160106 | 225mm Dia. Swarm Aqua D400 365mm Invert 495mm High 2m Long | Steel   | D400    | 18     |

### Market/Geographical Area:

Europe

### Reference service life, product

No reference service life is applied to the product but the technical lifespan is 60 years.

### Reference service life, building or construction works

Not relevant

## LCA: Calculation rules

### Declared unit:

1 kg Swarm Aqua® Linear Slot Drainage

kg per Declared unit 1

### Cut-off criteria:

All relevant inputs and outputs - like emissions, energy and materials - have been taken into account in this LCA, and in accordance with EN15804+A2:2019. The study covers at least 95% of the materials and energy per module and at least 99% of the total use of materials and energy of each unit process.

### Allocation:

Allocation follows the hierarchy of ISO 14044 and EN 15804+A2. Mass allocation was applied to shared manufacturing inputs (e.g., electricity).

### Data quality:

Primary data represent calendar year 2024 manufacturing at the UK site. Secondary datasets are from Ecolnvent (EN 15804 add-on), geographically representative (country-specific electricity) and within a  $\leq 10$ -year reference period.

#### Time Representativeness

In this LCA the background data is from Ecolnvent version 3.9.1. Thus the age of the data relating to the manufacturing of the drainage channel components, and data relating to the background processes for environmental impacts is less than 3. Time representativeness is considered to be Very Good.

#### Geographical Representativeness

The material references, from Ecolnvent version 3.9.1, relate to "RER" generally. However the electricity is related to the country of manufactured. Geographical representativeness is considered to be Good.

#### Technical Representativeness

The material references are general in nature and a conservative approach has been taken. They are based on Ecolnvent version 3.9.1. Technical representativeness is considered to be Good

## Scope and type of EPD (X = Module declared; ND = Module not declared)

| Product stage |           |               | Construction installation stage |          | Use stage |             |        |             |               |                        |                       | End of life stage          |           |                  |          | Beyond the system boundaries       |
|---------------|-----------|---------------|---------------------------------|----------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|------------------------------------|
| 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          | B3     | B4          | B5            | B6                     | B7                    | C1                         | C2        | C3               | C4       | D                                  |
| X             | X         | X             | X                               | X        | ND        | ND          | ND     | ND          | ND            | ND                     | ND                    | X                          | X         | X                | X        | X                                  |

### System boundary:

The system boundary follows cradle-to-gate (A1–A5) with the inclusion of end-of-life modules C1–C4 and module D, in accordance with EN 15804+A2. The use stage (B1–B7) is excluded, as the products do not require operational energy or maintenance.

#### Product stage (A1–A3).

A1 covers the extraction, processing and manufacture of polypropylene, cast iron, galvanised steel, and any ancillary materials; A2 includes inbound transport to the manufacturing site in Nuneaton; A3 includes manufacturing through cutting and trimming for preparation of the drainage channel to be assembled with the other components which are supplied in their final form. Allocation follows EN 15804 §6.4.3.2. Biogenic carbon content for wood packaging is quantified per EN 16449 (default 50 % C on an oven-dry basis, converted to CO<sub>2</sub> with 44/12).

#### Construction stage (A4–A5).

A4 models distribution to the installation site using documented routes; where specific data are unavailable, EPD Ireland PCR Part A defaults are applied. A5 models installation ancillaries and packaging waste treatment up to end-of-waste. Packaging fates follow the PCR's Irish defaults (66 % recycling / 20 % energy recovery / 14 % landfill).

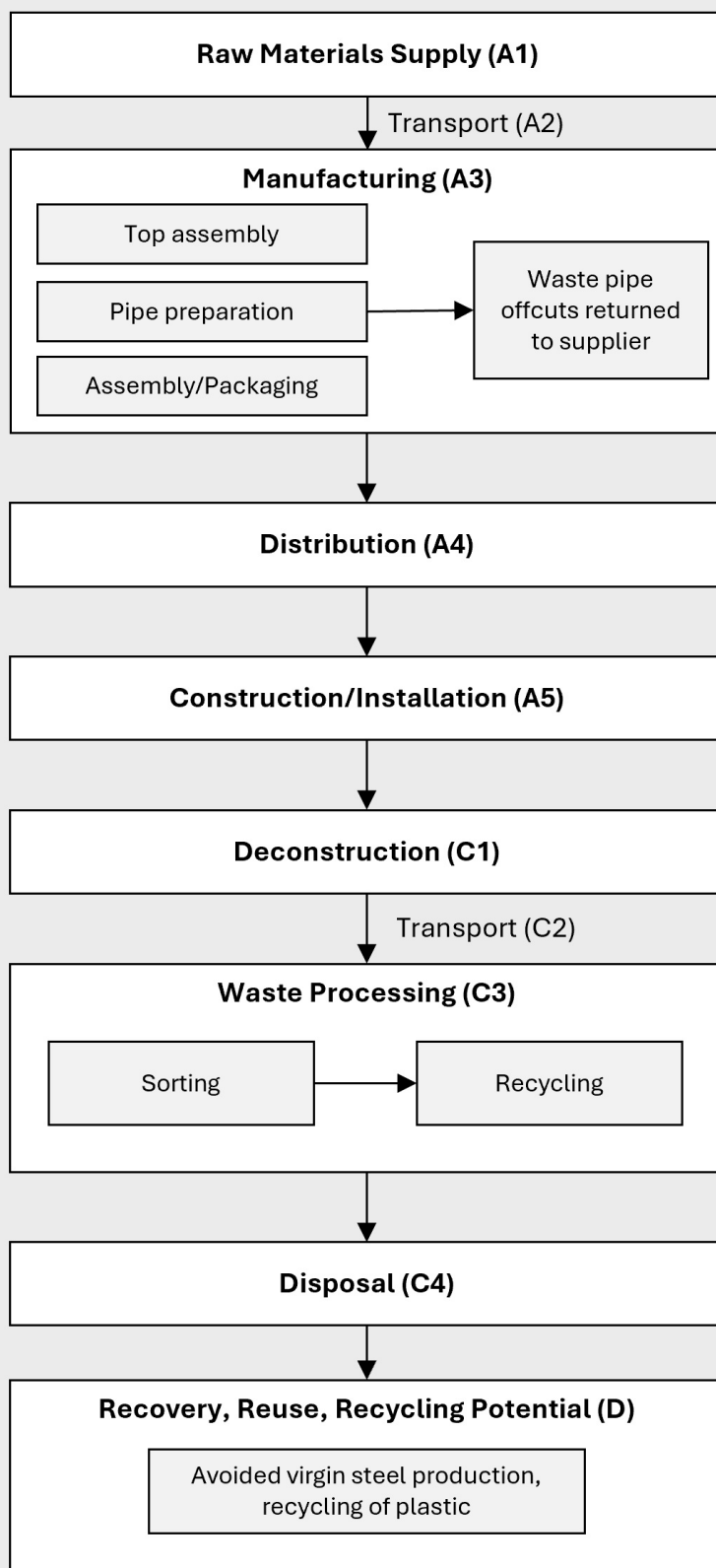
#### End-of-life stage (C1–C4).

C1 covers deconstruction/demolition energy; C2 covers transport to EoL treatment (50 km default); C3 covers waste processing up to end-of-waste (e.g., sorting, crushing, metal separation); C4 covers final disposal.

#### Module D (beyond system boundary).

Module D reports the potential benefits/loads to future systems from net outputs (e.g., recyclates or exported energy) using substitution.

**System Boundary**



**Additional technical information:**

Electricity modelling

Electricity is supplied from the grid, and is modelled as the average production mix for the UK. The CO<sub>2</sub> intensity of the electricity is 0.285 kg CO<sub>2</sub>eq per kWh

## LCA: Scenarios and additional technical information

The following information describes the scenarios in the different modules of the EPD.

### A4 Transport to customer:

Road EJ Facility (UK) → Holyhead port: 277 km, sea Holyhead → Dublin: 107.42 km, final distribution in Ireland 200 km by road (EPD Ireland PCR default). Datasets: lorry 16–32 t, EURO 6 (RER) and freight container ship (GLO).

### A5 Installation

Channels are placed in trench and secured with concrete (673 kg per metre installed). Packaging treated to end-of-waste in A5 using Irish default split 66% recycling / 20% recovery (WtE) / 14% landfill.

### Use stage (B1–B7)

Not declared — product requires no operational energy, water, or maintenance.

### C1 Deconstruction

40.38 MJ/FU (diesel), mechanical removal assumptions from 'Model for LCA of Buildings' (2018).

### C2 Transport to EoL

50 km lorry (16–32 t, EURO 6).

### C3 Waste processing

Segregated metals and plastics treated as 100% recycled per EPD Ireland PCR; mineral polymer-concrete matrix processed as residual.

### C4 Disposal

Disposal of residual fractions where applicable; polymer-concrete matrix not recycled.

Module D: Substitution approach for recycling cast iron, low-alloy steel, and PA6 only; no D credit for polymer-concrete matrix. Net recyclable mass credited = 0.895 kg/FU.

## LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

| Environmental impact                                                                                               |                        |          |          |           |          |          |          |          |          |          |           |
|--------------------------------------------------------------------------------------------------------------------|------------------------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                                                                                                          | Unit                   | A1       | A2       | A3        | A4       | A5       | C1       | C2       | C3       | C4       | D         |
|  GWP-total                        | kg CO <sub>2</sub> -eq | 1.90E+00 | 1.05E-02 | 9.33E-02  | 9.13E-02 | 2.73E+00 | 1.19E-01 | 9.01E-03 | 1.63E-02 | 0.00E+00 | -2.57E+00 |
|  GWP-fossil                       | kg CO <sub>2</sub> -eq | 1.90E+00 | 1.05E-02 | 1.18E-01  | 9.12E-02 | 2.70E+00 | 1.19E-01 | 9.00E-03 | 1.63E-02 | 0.00E+00 | -2.56E+00 |
|  GWP-biogenic                     | kg CO <sub>2</sub> -eq | 0.00E+00 | 0.00E+00 | -2.49E-02 | 0.00E+00 | 2.49E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
|  GWP-luluc                        | kg CO <sub>2</sub> -eq | 1.53E-03 | 5.33E-06 | 5.99E-04  | 4.55E-05 | 1.74E-03 | 8.78E-06 | 4.39E-06 | 2.38E-05 | 0.00E+00 | -2.08E-03 |
|  ODP                              | kg CFC 11 -eq          | 4.26E-08 | 2.29E-10 | 4.20E-09  | 1.98E-09 | 1.71E-08 | 1.87E-09 | 1.96E-10 | 2.58E-10 | 0.00E+00 | -8.34E-08 |
|  AP                               | mol H <sup>+</sup> -eq | 7.97E-03 | 2.29E-05 | 6.13E-04  | 2.30E-04 | 9.90E-03 | 1.53E-03 | 1.98E-05 | 1.82E-04 | 0.00E+00 | -1.30E-02 |
|  EP-FreshWater                    | kg P -eq               | 8.69E-04 | 7.47E-07 | 3.92E-05  | 6.59E-06 | 3.24E-04 | 1.63E-06 | 6.40E-07 | 9.72E-06 | 0.00E+00 | -9.33E-04 |
|  EP-Marine                        | kg N -eq               | 1.82E-03 | 5.65E-06 | 1.84E-04  | 5.80E-05 | 2.95E-03 | 7.07E-04 | 5.02E-06 | 4.27E-05 | 0.00E+00 | -2.49E-03 |
|  EP-Terrestrial                   | mol N -eq              | 1.83E-02 | 5.90E-05 | 2.01E-03  | 5.97E-04 | 3.26E-02 | 7.69E-03 | 5.05E-05 | 4.74E-04 | 0.00E+00 | -2.63E-02 |
|  POCP                             | kg NMVOC -eq           | 8.07E-03 | 3.58E-05 | 8.73E-04  | 3.31E-04 | 9.62E-03 | 2.13E-03 | 3.04E-05 | 1.42E-04 | 0.00E+00 | -1.03E-02 |
|  ADP-minerals&metals <sup>1</sup> | kg Sb -eq              | 3.36E-05 | 3.52E-08 | 5.90E-07  | 3.03E-07 | 1.35E-05 | 5.18E-08 | 3.01E-08 | 1.00E-06 | 0.00E+00 | -4.17E-05 |
|  ADP-fossil <sup>1</sup>          | MJ                     | 2.96E+01 | 1.50E-01 | 2.63E+00  | 1.30E+00 | 1.87E+01 | 1.56E+00 | 1.29E-01 | 2.23E-01 | 0.00E+00 | -3.34E+01 |
|  WDP <sup>1</sup>                 | m <sup>3</sup>         | 6.59E-01 | 7.47E-04 | 7.73E-02  | 6.44E-03 | 2.56E-01 | 1.99E-03 | 6.40E-04 | 3.69E-03 | 0.00E+00 | -6.60E-01 |

GWP-total = Global Warming Potential total; 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

"Reading example: 9.0 E-03 = 9.0\*10<sup>-3</sup> = 0.009"

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

## Remarks on environmental impacts

### Product average and variability

This EPD reports results per declared unit of 1 kg and is based on an LCA modelled for a representative product. Because all portfolio products are materially identical and produced using the same process route, LCIA results per 1 kg are expected to show negligible variability within the portfolio; differences between products are therefore primarily related to the mass per item (kg per product) and are addressed using the conversion table (impact per item = impact per kg × kg per item).

While LCIA results per declared unit (1 kg) are identical for all products, item-level impacts vary from –56% to +56% relative to the representative product due solely to differences in product mass.

### Additional environmental impact indicators

| Indicator                                                                                             | Unit              | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
|-------------------------------------------------------------------------------------------------------|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
|  PM                  | Disease incidence | 1.41E-07 | 7.83E-10 | 9.98E-09 | 6.75E-09 | 1.17E-07 | 2.08E-09 | 6.71E-10 | 2.52E-09 | 1.00E+00 | -2.24E-07 |
|  IRP <sup>2</sup>    | kgBq U235 -eq     | 2.67E-01 | 2.02E-04 | 2.31E-02 | 1.74E-03 | 3.89E-02 | 4.19E-04 | 1.73E-04 | 1.75E-03 | 2.00E+00 | -1.66E-01 |
|  ETP-fw <sup>1</sup> | CTUe              | 1.69E+01 | 7.38E-02 | 7.01E-01 | 6.40E-01 | 1.05E+01 | 7.54E-01 | 6.32E-02 | 1.73E-01 | 3.00E+00 | -1.03E+01 |
|  HTP-c <sup>1</sup>  | CTUh              | 2.52E-08 | 5.00E-12 | 7.33E-10 | 4.20E-11 | 9.95E-10 | 1.10E-11 | 4.00E-12 | 2.50E-11 | 4.00E+00 | -2.47E-08 |
|  HTP-nc <sup>1</sup> | CTUh              | 2.11E-07 | 1.07E-10 | 1.40E-09 | 9.19E-10 | 2.27E-08 | 2.94E-10 | 9.10E-11 | 1.12E-09 | 5.00E+00 | -2.23E-07 |
|  SQP <sup>1</sup>    | dimensionless     | 7.34E+00 | 9.02E-02 | 4.97E+01 | 7.75E-01 | 1.18E+01 | 9.48E-02 | 7.73E-02 | 3.91E-01 | 5.00E+00 | -1.07E+01 |

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Potential Soil Quality Index (dimensionless)

"Reading example: 9.0 E-03 =  $9.0 \times 10^{-3}$  = 0.009"

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator
2. 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.

| Resource use                                                                      |       |                |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------------------------------------------------|-------|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                                                                         |       | Unit           | A1       | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D         |
|  | PERE  | MJ             | 2.38E+00 | 2.35E-03 | 9.22E+00 | 2.02E-02 | 2.75E-01 | 4.37E-03 | 2.01E-03 | 3.42E-02 | 0.00E+00 | -4.39E+00 |
|  | PERM  | MJ             | 0.00E+00 | 0.00E+00 | 2.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
|  | PERT  | MJ             | 2.38E+00 | 2.35E-03 | 9.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
|  | PENRE | MJ             | 2.84E+01 | 1.37E-01 | 2.48E+00 | 1.19E+00 | 1.76E+01 | 1.41E+00 | 1.18E-01 | 2.10E-01 | 0.00E+00 | -3.25E+01 |
|  | PENRM | MJ             | 1.22E+00 | 1.30E-02 | 1.50E-01 | 1.13E-01 | 1.13E+00 | 1.46E-01 | 1.12E-02 | 1.31E-02 | 0.00E+00 | -8.47E-01 |
|  | PENRT | MJ             | 2.96E+01 | 1.50E-01 | 2.63E+00 | 1.30E+00 | 1.87E+01 | 1.56E+00 | 1.29E-01 | 2.23E-01 | 0.00E+00 | -3.34E+01 |
|  | SM    | kg             | 3.87E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
|  | RSF   | MJ             | 6.90E-02 | 4.45E-05 | 3.84E-03 | 3.82E-04 | 4.64E-03 | 4.30E-05 | 3.80E-05 | 4.47E-04 | 0.00E+00 | -4.31E-03 |
|  | NRSF  | MJ             | 1.27E-01 | 8.75E-05 | 5.89E-03 | 7.52E-04 | 1.99E-02 | 1.11E-04 | 7.50E-05 | 5.14E-04 | 0.00E+00 | -2.03E-02 |
|  | FW    | m <sup>3</sup> | 1.48E-02 | 1.82E-05 | 1.72E-03 | 1.57E-04 | 2.53E-02 | 6.09E-05 | 1.57E-05 | 1.04E-04 | 0.00E+00 | -2.02E-02 |

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 materials; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

\*Reading example: 9.0 E-03 =  $9.0 \times 10^{-3}$  = 0.009"

| End of life - Waste                                                               |      |    |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------------------------------------------------|------|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                                                                         | Unit | A1 | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D        |           |
|  | HWD  | kg | 3.18E-01 | 1.41E-04 | 5.45E-03 | 1.22E-03 | 3.40E-02 | 4.39E-04 | 1.21E-04 | 9.58E-04 | 0.00E+00 | -1.47E-01 |
|  | NHWD | kg | 1.48E-01 | 7.29E-03 | 2.77E-02 | 6.25E-02 | 6.90E-01 | 5.98E-04 | 6.24E-03 | 5.72E-03 | 0.00E+00 | -1.55E+00 |
|  | RWD  | kg | 6.81E-05 | 4.91E-08 | 5.33E-06 | 4.22E-07 | 9.72E-06 | 9.03E-08 | 4.20E-08 | 4.46E-07 | 0.00E+00 | -5.36E-05 |

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9.0 E-03 =  $9.0 \times 10^{-3}$  = 0.009"

| End of life - Output flow                                                         |      |    |          |          |          |          |          |          |          |          |          |           |
|-----------------------------------------------------------------------------------|------|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator                                                                         | Unit | A1 | A2       | A3       | A4       | A5       | C1       | C2       | C3       | C4       | D        |           |
|  | CRU  | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
|  | MFR  | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.98E-03 | 0.00E+00 | 0.00E+00 | 1.00E+00 | 0.00E+00 | -6.13E-01 |
|  | MER  | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
|  | EEE  | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
|  | EET  | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9.0 E-03 =  $9.0 \times 10^{-3}$  = 0.009"

| Biogenic Carbon Content                           |      |                     |
|---------------------------------------------------|------|---------------------|
| Indicator                                         | Unit | At the factory gate |
| Biogenic carbon content in product                | kg C | 0.00E+00            |
| Biogenic carbon content in accompanying packaging | kg C | 6.90E-03            |

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO<sub>2</sub>

## **Additional requirements**

### **Dangerous substances**

None of the substances contained in the product are listed in the "Candidate List of Substances of Very High Concern for authorisation", or they do not exceed the limit for registration with the European Chemicals Agency.

### **Mandatory additional information on release of dangerous substances to indoor air, soil and water.**

Not relevant

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