Environmental
Product
Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019 for:

**[*Product name*]**

from

**[*Company name*]**

*[Company logotype placeholder*]

|  |  |
| --- | --- |
| Programme: | The International EPD® System, [www.environdec.com](http://www.environdec.com) |
| Programme operator: | EPD International AB |
| EPD registration number: | S-P-0XXXX |
| Publication date: | 202X-XX-YY |
| Valid until: | 202X-XX-YY |
|  | *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* |

*[Product image placeholder]*

General information

Programme information

|  |  |
| --- | --- |
| **Programme:** | The International EPD® System |
| **Address:** | EPD International AB Box 210 60 SE-100 31 StockholmSweden |
| **Website:** | [www.environdec.com](http://www.environdec.com) |
| **E-mail:** | info@environdec.com |

|  |
| --- |
| **Accountabilities for PCR, LCA and independent, third-party verification** |
| **Product Category Rules (PCR)** |
| CEN standard EN 15804 serves as the Core Product Category Rules (PCR) |
| Product Category Rules (PCR): *<name, registration number, version and UN CPC code(s)>* |
| PCR review was conducted by: *<name and organisation of the review chair, and information on how to contact the chair through the programme operator>* |
| **Life Cycle Assessment (LCA)** |
| LCA accountability: *<name, organization>* |
| **Third-party verification** |
| Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:[ ]  EPD verification by individual verifier Third-party verifier: *<name, organisation, and signature of the third-party verifier>*Approved by: The International EPD® System |
| **OR** |
| Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:[ ]  EPD verification by accredited certification body Third-party verification: *<name, organisation>* is an approved certification body accountable for the third-party verificationThe certification body is accredited by: *<name of accreditation body & accreditation number, where applicable>* |
| **OR** |
| Independent third-party verification of the declaration and data, according to ISO 14025:2006 via:[ ]  EPD verification by EPD Process Certification\*Internal auditor: *<name, organisation>* Third-party verification: *<name, organisation>* is an approved certification body accountable for third-party verification Third-party verifier is accredited by: *<name of accreditation body & accreditation number, where applicable>*\*For EPD Process Certification, an accredited certification body certifies and reviews the management process and verifies EPDs published on a regular basis. For details about third-party verification procedure of the EPDs, see GPI. |
| Procedure for follow-up of data during EPD validity involves third party verifier:[ ]  Yes [ ]  No[Procedure for follow-up the validity of the EPD is at minimum required once a year with the aim of confirming whether the information in the EPD remains valid or if the EPD needs to be updated during its validity period. The follow-up can be organized entirely by the EPD owner or together with the original verifier via an agreement between the two parties. In both approaches, the EPD owner is responsible for the procedure being carried out. If a change that requires an update is identified, the EPD shall be re-verified by a verifier] |

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.

Company information

Owner of the EPD: [Company]

Contact: [Contact person]

Description of the organisation: [...]

Product-related or management system-related certifications: [e.g. ISO 14024 Type I environmental labels, ISO 9001- and 14001-certificates, EMAS-registrations, SA 8000, supply chain management and social responsibility]

Name and location of production site(s): [...]

Product information

Product name: [...]

Product identification: [unambiguous identification of the product by standards, concessions, or other means]

Product description: [product description, application/intended use, technical functions, e.g. expected service life time]

UN CPC code: [...]

Other codes for product classification: [e.g. GTIN, CPV, UNSPSC, NACE/CPA, ANZSIC]

Geographical scope: [for which geographical location(s) of use and end-of-life the product’s performance has been calculated]

LCA information

Functional unit / declared unit: [...]

Reference service life: [where applicable]

Time representativeness: [declaration of the year(s) covered by the data used for the LCA calculation and other relevant reference years]

Database(s) and LCA software used: [where relevant]

Description of system boundaries:

[a) Cradle to gate with modules C1–C4 and module D (A1–A3 + C + D);

b) Cradle to gate with options, modules C1–C4, module D and with optional modules (A1–A3 + C + D and additional modules). The additional modules may be one or more selected from A4–A5 and/or B1–B7.;

c) Cradle to grave and module D (A + B + C + D);

d) Cradle to gate (A1–A3);

e) Cradle to gate with options (A1–A3 and additional modules). The additional modules may be A4 and A5;

f) Construction service EPD: Cradle to gate with modules A1-A5, modules C1-C4 and module D. Such an EPD will potentially be used as an information module in any life cycle stage B or C for a construction works.

Information on which lifecycle stages are not considered (if any), with a justification for the omission]

System diagram:

[Image placeholder for system diagram]

More information: [any relevant websites for more information or explanatory materials.

Name and contact information of LCA practitioner: optional, name and contact information of the organisation carrying out the underlying LCA study

Additional information: optional, any additional information about the underlying LCA-based information, such as assumptions, cut-off rules, data quality, and allocation.
If the electricity in module A3 accounts for more than 30% of the total energy in stage A1 to A3, the energy sources behind the electricity grid in module A3 shall be declared along with the climate impact of the electricity in g CO2 eq./kWh.
Information about scenarios and additional technical information as per Section 7.1 in EN 15804, when applicable.]

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 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 |  | Reuse-Recovery-Recycling-potential |
|  |
|  |
|  |
| **Module** | **A1** | **A2** | **A3** | **A4** | **A5** | **B1** | **B2** | **B3** | **B4** | **B5** | **B6** | **B7** | **C1** | **C2** | **C3** | **C4** |  | **D** |
| Modules declared |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Geography |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Specific data used |  |  |  | - | - | - | - | - | - | - | - | - | - | - |  | - |
| Variation – products |  |  |  | - | - | - | - | - | - | - | - | - | - | - |  | - |
| Variation – sites |  |  |  | - | - | - | - | - | - | - | - | - | - | - |  | - |

The table is adapted for physical products and may have to be modified when declaring service products.

Content information

|  |  |  |  |
| --- | --- | --- | --- |
| Product components | Weight, kg | Post-consumer material, weight-% | Renewable material, weight-% |
| Material 1 / Chemical substance 1  |  |  |  |
| Material 2 / Chemical substance 2 |  |  |  |
| ... |  |  |  |
| TOTAL |  |  |  |
| Packaging materials | Weight, kg | Weight-% (versus the product) |
| Material 1 |  |  |
| Material 2 |  |  |
| … |  |  |
| TOTAL |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Dangerous substances from the candidate list of SVHC for Authorisation | EC No. | CAS No. | Weight-% per functional or declared unit |
| Substance 1  |  |  |  |
| Substance 2 |  |  |  |
| ... |  |  |  |

Environmental Information

For construction services, the total value of A1-A3 shall be replaced with the total value of A1-A5.

Potential environmental impact – mandatory indicators according to EN 15804

|  |
| --- |
| Results per functional or declared unit |
| **Indicator** | **Unit** | **A1** | **A2** | **A3** | **Tot.A1-A3** | **A4** | **A5** | **B1** | **B2** | **B3** | **B4** | **B5** | **B6** | **B7** | **C1** | **C2** | **C3** | **C4** | **D** |
| GWP-fossil | kg CO2 eq. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GWP-biogenic | kg CO2 eq. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GWP-luluc | kg CO2 eq. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GWP-total | kg CO2 eq. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ODP | kg CFC 11 eq. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AP | mol H+ eq. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EP-freshwater | kg PO43- eq. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EP-freshwater | kg P eq. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EP-marine | kg N eq. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EP-terrestrial | mol N eq. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| POCP | kg NMVOC eq. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ADP-minerals&metals\* | kg Sb eq. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ADP-fossil\* | MJ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WDP | m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |

*\* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.*

Potential environmental impact – additional mandatory and voluntary indicators

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| --- |
| Results per functional or declared unit |
| **Indicator** | **Unit** | **A1** | **A2** | **A3** | **Tot.A1-A3** | **A4** | **A5** | **B1** | **B2** | **B3** | **B4** | **B5** | **B6** | **B7** | **C1** | **C2** | **C3** | **C4** | **D** |
| GWP-GHG[[1]](#footnote-2) | kg CO2 eq. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Additional voluntary indicators e.g. the voluntary indicators from EN 15804 or the global indicators according to ISO 21930:2017* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

*Disclaimers shall be added, if required by EN 15804.*

**Use of resources**

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| --- |
| Results per functional or declared unit |
| **Indicator** | **Unit** | **A1** | **A2** | **A3** | **Tot.A1-A3** | **A4** | **A5** | **B1** | **B2** | **B3** | **B4** | **B5** | **B6** | **B7** | **C1** | **C2** | **C3** | **C4** | **D** |
| PERE | MJ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PERM | MJ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PERT | MJ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PENRE | MJ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PENRM | MJ. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PENRT | MJ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SM | kg |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RSF | MJ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NRSF | MJ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FW | m3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |

**Waste production and output flows**

**Waste production**

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| --- |
| Results per functional or declared unit |
| **Indicator** | **Unit** | **A1** | **A2** | **A3** | **Tot.A1-A3** | **A4** | **A5** | **B1** | **B2** | **B3** | **B4** | **B5** | **B6** | **B7** | **C1** | **C2** | **C3** | **C4** | **D** |
| Hazardous waste disposed | kg |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-hazardous waste disposed | kg |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Radioactive waste disposed | kg |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Output flows**

|  |
| --- |
| Results per functional or declared unit |
| **Indicator** | **Unit** | **A1** | **A2** | **A3** | **Tot.A1-A3** | **A4** | **A5** | **B1** | **B2** | **B3** | **B4** | **B5** | **B6** | **B7** | **C1** | **C2** | **C3** | **C4** | **D** |
| Components for re-use | kg |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Material for recycling | kg |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Materials for energy recovery | kg |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exported energy, electricity | MJ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Exported energy, thermal | MJ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

*The result tables shall only contain values or the letters “ND” (Not Declared). It is not possible to specify ND for mandatory indicators. ND shall only be used for voluntary parameters that are not quantified because no data is available.*

**Information on biogenic carbon content**

|  |
| --- |
| **Results per functional or declared unit** |
| **BIOGENIC CARBON CONTENT** | **Unit** | **QUANTITY** |
| Biogenic carbon content in product | kg C |  |
| Biogenic carbon content in packaging | kg C |  |

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

**Other environmental indicators**

[...]

*Optional environmental indicators may be presented as indicated in the table above. See underlying PCR for detailed requirements.*

Additional information

See sections 5.4, 7.3 and 7.4 in EN 15804

*An EPD may include additional environmental information not derived from the LCA-based calculations. In general, this part of the EPD describing additional environmental information may include various issues e.g. on specific information about the use and end-of-life, which has a special value covering e.g.:*

* *instruction for a proper use of the product, e.g. to minimise the energy or water consumption or to improve the durability of the product;*
* *instructions for a 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, and*
* *information regarding disposal of the product or inherent materials, and any other information considered necessary to minimise the product’s end-of-life impacts.*

*Additional 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 environmental information can also include 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;*
* *any activity related to supply chain management, social responsibility, etc., and*
* *information on where interested parties may find more details about the organisation’s environmental work.*

*It is recommended to add information enabling the possibility to make comparisons with sector benchmarks or, if not available, with benchmarks of common products and services preferably based on the concept of functional unit or declared unit, which is useful for scaling the environmental impacts of different activities, products, and services.*

*It is also recommended to include additional environmental impact indicators from EN 15804 to facilitate modularity,*

*The PCR shall give further information on relevant additional information to include in the EPD*

Information related to Sector EPD

*For sector EPDs, the following information shall be included:*

* *a list of the contributing manufacturers that the Sector EPD covers,*
* *a description of how the selection of the sites/products has been done and how the average has been determined, and*
* *a statement that the document covers average values for an entire or partial product category (specifying the percentage of representativeness) and, hence, the declared product is an average that is not available for purchase on the market*

Differences versus previous versions

*For EPDs that have been updated, the following information shall be included:*

* *a description of the differences versus previously published versions, e.g. a description of the percentage change in results and the main reason for the change;*
* *a revision date on the cover page (see Section 5.3.1 in PCR 2019:14).*

References

General Programme Instructions of the International EPD® System. Version 3.01.

PCR 2019:14. Name. Version

*Other references to be added, e.g. c-PCR used*



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1. 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. [↑](#footnote-ref-2)