Environmental
Product
Declaration

*If EPD is registered through a regional or national licensee, replace the logotype above with the combined Licensee logotype and/or CLC.*

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

**[*Product name(s)*]**

from

**[*Company name*]**

*[Company logotype placeholder*]

|  |  |
| --- | --- |
| Programme: | The International EPD System, [www.environdec.com](http://www.environdec.com) |
| Programme operator: | EPD International AB |
| Licensee: | In the case of EPDs registered through a regional or national licensee |
| Type of EPD: | Choose from Table 1 of GPI V5.0.1 |
| EPD registration number: | EPD-IES-00XXXXX |
| Version date: | 20YY-MM-DD |
| Validity date: | 20YY-MM-DD |
|  | *An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com* |

*[Product image placeholder]*

The following shall be included on the cover page, if applicable:

* *If applicable, include a statement of conformity with ISO 21930:2017.*
* *If applicable, include a statement of conformity with other standards (e.g., ISO 14067, ISO 14026) and methodological guidelines.*
* *For EPDs covering multiple products, include the relevant statement as required in Section 6.4.1 of the PCR.*
* *For sector EPDs, include the applicable information in accordance with Section 6.4.1 of the PCR.*
* *For EPDs of products not yet on the market, include a disclaimer specified in Section 6.4.1 of the PCR’.*
* *For EPDs of products recently on the market, include a disclaimer specified in Section 6.4.1 of the PCR.*
* *If applicable; information about dual registration of EPD in another programme, such as registration number and logotype.*
* *In case an EPD is to publish in an additional language than English as a self-declaration, include a disclaimer as per Section 6.4.1 of PCR*

*Visual representation (e.g., an image) of the product.*

*One brand/product logotype of the EPD owner, when relevant*

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:** | support@environdec.com |

|  |
| --- |
| **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>*** |
| **c-PCR, if applicable: *<name, registration number, version>. <In case of an adopted c-PCR, the information shall state the name and version number of the original c-PCR document as well as the name and version number given to the c-PCR after adoption in International EPD System>.*** |

|  |
| --- |
| **Third-party Verification** |
| Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:[ ]  **Individual EPD verification without a pre-verified LCA/EPD tool**Third-party verifier: *<name, and organization of the individual verifier>* Approved by: International EPD System*or**<name of certification body (including address) >* Accredited by: < *Name of accreditation body & accreditation number, where applicable*>[ ]  **Individual EPD verification with a pre-verified LCA/EPD tool**Third-party verifier: *<name, and organization of the individual verifier>* Approved by: International EPD System*or**< name of certification body (including address) >* Accredited by: < *Name of accreditation body & accreditation number, where applicable*>Pre-verified LCA tool or Pre-verified EPD tool: *<name and version>*Third-party verifier, accountable for the tool verification: *<name, and organization of the individual verifier>* Approved by: International EPD System*or**< name of certification body (including address) >* Accredited by: < *Name of accreditation body & accreditation number, where applicable*>[ ]  **EPD process certification\* without a pre-verified LCA/EPD tool**Third-party verifier: *< name of certification body (including address) >* Accredited by: < *Name of accreditation body & accreditation number, where applicable*>[ ]  **EPD process certification\* with a pre-verified LCA/EPD tool**Third-party verifier: *< name of certification body (including address) >* Accredited by: < *Name of accreditation body & accreditation number, where applicable*>Pre-verified LCA tool or Pre-verified EPD tool: *<name and version>*Third-party verifier, accountable for the tool verification: *<name, and organization of the individual verifier>* Approved by: International EPD System*or**< name of certification body (including address) >* Accredited by: < *Name of accreditation body & accreditation number, where applicable*>[ ]  **Fully pre-verified EPD tool**Fully pre-verified EPD tool: *<name and version>*Third-party verifier, accountable for the tool and EPD verification: *<name, and organization of the individual verifier>* Approved by: International EPD System*or**< name of certification body (including address) >* Accredited by: < *Name of accreditation body & accreditation number, where applicable*>\*EPD process certification involves an accredited certification body certifying and periodically auditing the EPD process and conducting external and independent verification of EPDs that are regularly published. More information can be found in the General Programme Instructions on www.envrondec.com. |
| 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 published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit 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 identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.

For further information about comparability, see EN 15804 and ISO 14025.

INFORMATION ABOUT EPD OWNER

Owner of the EPD: [Company]

Address: [...]

Contact: [Contact person]

Address and contact information of the LCA practitioner commissioned by the EPD owner, if applicable: [Contact person and address]

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] Any information related to environmental, economic, or social sustainability shall follow the rules in Sections 6.4.8 and 6.4.9 of PCR.

Any information related to environmental, economic, or social sustainability shall follow the rules in Sections 6.4.8 and 6.4.9 in PCR 2019:14.

See the GPI and the PCR for other required company information.

Information entered in the EPD Portal by the EPD Owner must align with the information documented within the EPD (pdf document). EPD Portal cannot contain any information not in the EPD.

PRODUCT INFORMATION

Product name: [...]

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

Visual representation (e.g., an image) of the product

UN CPC code: [...]

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

Product description: [Description of the product in accordance with the product classification system(s) used, and description of the technical performance of the product, including its application/intended use and key functionalities, and expected influence on the operational aspects and impact of the building or other construction work. Restrictions to a type of construction or building shall also be described. Brief description of main processes of manufacturing (for EPDs of goods) or service provision (for EPDs of services). Technical or actual lifespan, if applicable.]

Name and location of production site(s): [including, as a minimum, the city (or municipality, if not located in a city]

In case of EPDs owned by a trader, the location of the final process in direct control of the trader[including, as a minimum, the city (or municipality, if not located in a city].

Name of manufacturer(s) (if EPD of goods) or service provider(s) (if EPD of services), if different from the EPD owner.

References to any relevant websites for more information or explanatory materials, if applicable.

See the GPI and the PCR for other required product information. In particular, note the additional requirements on EPDs of multiple products.

EPD shall not include rating, judgements, or direct comparisons with other products or companies.

“Other products” include previous or alternative versions of the studied product, i.e., the EPD shall not display changes in the environmental performance results of a product over time, or differences with regard to a hypothetical version of the product using, e.g., alternative production processes or input materials.

“Other companies” means that the EPD shall not in any way imply that the EPD owner is, for example, “a market leader” or “more sustainable” (or similar) compared to its competitors.

Information entered in the EPD Portal by the EPD Owner must align with the information documented within the EPD (pdf document). EPD Portal cannot contain any information not in the EPD.

CONTENT DECLARATION

* The mass (weight) of one unit of a product, as purchased or per declared unit: […].
* Content of the product in the form of a list of materials and substances, and their mass: […].
* The mass and the content of distribution and/or consumer packaging: [when applicable].
* Information on the environmental and hazardous/toxic properties of a substances contained in the product: [ if the substance is in the candidate list of Substances of Very High Concern (SVHCs) which exceeds the limits for registration with the European Chemicals Agency (i.e., if the substance constitutes more than 0.1% of the weight of the product or any component of the product, if applicable).]
* Other information on substances with hazardous and toxic properties: [ that can be of concern for human health and/or the environment, if required by normative standards or regulation applicable in the market for which the EPD is valid. Note that declaration of toxic/hazardous substances shall be done irrespective of whether the substances have been included or excluded from the LCA model based on, for example, the cut-off rules.]
* The declared share of biogenic/recycled materials: [ based on the actual share of biogenic/recycled material in the product (in average over the studied time period, normally one year of production).]

The gross mass of materials in the content declaration shall cover 100% of one unit of product and its packaging, except for EPDs of multiple products based on worst-case results, for which the aggregated mass of declared content may deviate from 100% of the total mass.

If there is more than 5% biogenic content in the product, this share (in mass-%) shall be declared along with the mass of biogenic carbon content in kg C per product or declared unit. For EPDs claiming compliance with ISO 21930, the biogenic carbon content shall additionally be declared in terms of kg CO2 eq.

If there is more than 5% post-consumer recycled content in the product, this share shall be declared.

If there is more than 5% biogenic content in the packaging, this share shall be declared.

If the share of biogenic/recycled material is unknown, this part of the content declaration can be left out or be declared as 0% (a conservative estimate) or unknown.

Additional rules for the content declaration set by the c-PCR.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Product content | Mass, kg | Post-consumer recycled material, mass-% of product | Biogenic material, mass-% of product | Biogenic material, kg C/product or declared unit |
| Material 1 / Chemical substance 1  |  |  |  |  |
| Material 2 / Chemical substance 2 |  |  |  |  |
| ... |  |  |  |  |
| TOTAL |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Packaging materials | Mass, kg | Mass-% (versus the product) | Biogenic material, kg C/product or declared unit |
| Material 1 |  |  |  |
| Material 2 |  |  |  |
| … |  |  |  |
| TOTAL |  |  |  |

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO2.

|  |  |  |  |
| --- | --- | --- | --- |
| Hazardous substances from the candidate list of SVHC | EC No. | CAS No. | Mass-% per product or declared unit |
| Substance 1  |  |  |  |
| Substance 2 |  |  |  |
| ... |  |  |  |

See the PCR for guidance on filling the above tables.

LCA INFORMATION

Functional unit [only suitable for EPD with c-PCR used], or Declared unit: [...]

Conversion factor to mass if mass is not used as functional/declared unit (not applicable for services).

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]

Geographical scope: [which countries or regions have the processes in modules A1-

A5 been modelled to represent, and which countries or regions have the use (module B) and end-of-life (module C) of the product’s performance been modelled to represent.

The geographical scope can be “global”, for example for module A1 if the raw materials are produced in several continents or for modules B or C if the EPD represents a product sold on the global market.

If the environmental performance section declares results for additional scenarios for modules A4-D that represent different geographical scopes, the declared geographical scope shall reflect the main scenario.]

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

EPD/LCA Tool used: [where relevant]

Description of system boundaries:

Description of the EPD system boundary as “cradle-to-gate with modules C1-C4 and module D”, “cradle-to-gate with options, modules C1-C4, module D and optional modules”, “cradle-to-grave and module D”, “cradle to gate”, “cradle to gate with options”, or “cradle to gate with modules A1-A5 and optional modules”, depending on the type of system boundary defined in and permitted by the PCR and applicable c-PCR.

Products using energy in the use stage, directly or indirectly, shall include module B6. This is in line with the requirements for EEE products in EN 50693.

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

1. Cradle to gate with modules C1–C4 and module D (A1–A3 + C + D);
2. 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.;
3. Cradle to grave and module D (A + B + C + D). See specific requirements in the PCR;
4. Cradle to gate (A1–A3). See specific requirements in the PCR;
5. Cradle to gate with options (A1–A3 and additional modules). The additional modules may be A4 and A5. See specific requirements in the PCR;
6. Construction service EPD: Cradle to gate with modules A1-A5 and optional modules. Such an EPD will potentially be used as an information module in any life cycle stage B or C for a construction works.

Process flow diagram:

Process flow diagram of the product system, divided into the life-cycle stages and modules (or other division of the product life cycle, if defined in the PCR), showing the main processes included and the system boundary of the LCA. The diagram shall make it clear when the end-of-waste state is reached for main input flows of reused/recycled materials and recovered energy, and for output flows of reused/recycled materials and recovered energy exiting the end-of-life stage.

[Image placeholder for system diagram]

More information:

[Description of allocation procedures in line with requirements of PCR in Section 4.5.3, if recycled material is a main input to, or output from, the product system.

If the recycled material inputs contribute more than 10% to the GWP-GHG results of modules A1-A3, the GWP-GHG intensity of that recycled material (in kg CO2 eq./tonne) shall be declared in the EPD.

A summary of the data quality assessment, in line with requirements of PCR in Section 4.6.4.

Declaration of data sources, reference years, and share of primary data, in line with requirements of PCR in Section 4.6.4.

Information on the modelling of infrastructure/capital goods, if relevant, in line with requirements of PCR in Section 4.3.6.

The climate impact (in kg CO2 eq./kWh using the GWP-GHG indicator) of electricity or biogas purchased in the manufacturing process in A3 shall be declared in the EPD.

The total share of primary data contributing to the declared GWP-GHG results of modules A1-A3 (A1-A5 for services) shall be declared in the EPD.

Description of scenario(s) used in the modelling of downstream stages and module D, if applicable.

Reference(s) to, or a list of, the characterisation methods for all declared environmental performance indicators, including a description of the version number (e.g., EF 3.1) of the EN 15804 reference package used.]

See the GPI and the PCR for other required LCA information.

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 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 |  |  |  | - | - | - | - | - | - | - | - | - | - | - |  | - |

Modules/processes/life-cycle stages declared shall be noted with “X”.

Modules/processes/life-cycle stages not declared shall be marked as “ND”.

Geographical scope shall be reported by the country code(s) (e.g., UK, FR, DE) and/or name of the region(s) (e.g., EU 27, Global).

A variation of 0% shall be reported in EPDs of one product or site.

See the PCR for guidance on filling in the table above. The table is adapted for physical products and may have to be modified when declaring service products.

Please refer to the PCR Section 4.6.5.2 Example of data quality declaration as a reference example.

EPD from a supplier as a data source (an upstream EPD), the share of primary data of the upstream EPD may not be known. In such cases, the upstream EPD shall conservatively be assumed to be based on 0% primary data or an estimated share based on the information available in the upstream EPD and/or other similar EPDs (e.g., what is a reasonable share of primary data in the specific sector). If an estimate is done, the following statement shall be included in the EPD: “The reported share of primary data is associated with uncertainty, as an EPD [or: several EPDs] used as data source lack information on the share of primary data.”

ENVIRONMENTAL PERFORMANCE

**LCA results of the product(s) - main environmental performance results**

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

Mandatory impact category indicators according to EN 15804

|  |
| --- |
| Results per functional or declared unit |
| **Indicator** | **Unit** | **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 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 estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.*

*If the EPD covers the end-of-life stage: “The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3)” For services, “A1-A3” shall be replaced by “A1-A5*

*If results based on an old EF version is used to develop an EPD, the EPD shall include a statement that clarifies that an EPD based on an old EF version has been used as a data source, and that this was assessed to yield identical or conservative results compared to fully using the current EF version.*

*If biogenic carbon leaving the product system in module A5 (see Annex 2 of PCR) or recovered energy leaving the product system in modules A5 or C (see Annex 3 of PCR) have been balanced out already in modules A1-A3, a statement in this regard shall be included.*

Additional mandatory and voluntary impact category indicators

|  |
| --- |
| Results per functional or declared unit |
| **Indicator** | **Unit** | **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.

**Resource use indicators**

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| --- |
| Results per functional or declared unit |
| **Indicator** | **Unit** | **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 indicators**

|  |
| --- |
| Results per functional or declared unit |
| **Indicator** | **Unit** | **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 flow indicators**

|  |
| --- |
| Results per functional or declared unit |
| **Indicator** | **Unit** | **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 environmental performance indicators. ND shall only be used for optional indicators that are not quantified because no data is available.
* not contain blank cells, hyphens, less than or greater than signs, or letters (except “ND”).
* use the value “0” only for parameters that have been calculated to be zero.
* use footnotes to explain any limitation to the result value.

Information entered in the EPD Portal by the EPD Owner must align with the information documented within the EPD (pdf document). EPD Portal cannot contain any information not in the EPD.

EPDs based on this PCR shall be made digitally available in the machine-readable ILCD+EPD format. The machine-readable Excel file shall be checked by the verifier within the EPD Portal.

**Additional LCA results (other environmental performance results) of the product(s)**

Results for other environmental performance indicators may also be declared. See the PCR for guidance.

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

In addition to the main environmental performance results, the environmental performance section may declare the following additional LCA results in a separate subsection:

▪ Results for additional scenarios for modules A4-D. If this is done, the most representative scenario (for the geographical scope of the EPD) shall be declared as the main environmental performance results, and the other scenarios shall be declared in the separate subsection.

▪ Results of an alternative modelling approach, if such an alternative modelling approach is explicitly allowed by the applicable c-PCR or this PCR (this PCR allows two alternative results, see the next bullet points).

▪ Alternative environmental performance results based on location-based electricity and/or biogas modelling, which means that the consumption mix on the market is used to model all electricity/gas used in the product system (also the manufacturing processes in module A3 (for EPDs of goods) or service provision processes in module A5 (for EPDs of services) and other processes under operational control of the EPD owner).

For EPD of multiple products, if the EPD does not claim compliance with ISO 21930, variations above 10% are allowed. In such cases, the LCA report shall include an explanation of the variation and a justification of the grouping of products, and the EPD shall (in the LCA information section) declare the variation of each impact indicator results for which the variation is above 10% and include an explanation of the variation. EPDs based on worst-case results, that do not claim compliance with ISO 21930, are exempted from the requirement to declare the variation if above 10%.

The variations information can be added as a table. An example:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LCA result of one declared unit product (A-C) | Unit | Min | Representative/Average | Max |
| 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 P eq. |  |  |  |
| EP- marine | kg N eq. |  |  |  |
| EP-terrestrial | mol N eq. |  |  |  |
| POCP | kg NMVOC eq. |  |  |  |
| ADP-minerals&metals\* | kg Sb eq. |  |  |  |
| ADP-fossil\* | kg CO2 eq. |  |  |  |
| WDP\* | kg CO2 eq. |  |  |  |
| … |  |  |  |  |

ADDITIONAL ENVIRONMENTAL INFORMATION

(Add this section if applicable)

See the PCR and sections 5.4, 7.3 and 7.4 in EN 15804.

An EPD may include additional environmental information, in addition to the LCA results of the section on environmental performance results. The additional environmental information may cover various aspects of specific relevance for the product, for example:

* conversion factors for converting the declared results of a product group to results for specific products within the group;
* the release of dangerous substances into indoor air, soil, and water during the use stage;
* instruction for proper use of the product, e.g. to minimise the energy or water consumption or to improve the durability of the product;
* instructions for proper maintenance and service of the product, e.g., to minimise energy or water consumption or to improve the durability of the product;
* information on key parts of the product determining its durability;
* information on recycling including e.g. suitable procedures for recycling the entire product or selected parts and the potential environmental benefits gained;
* information on a suitable method of reuse of the product (or parts of the products) and procedures for disposal as waste at the end of its life cycle,
* information regarding disposal of the product or inherent materials, and any other information considered necessary to minimise the product’s end-of-life impacts,
* a more detailed description of an organisation’s overall environmental work such as:
	+ the existence of a quality or environmental management system or any type of organised environmental activity, and
	+ information on where interested parties may find more details about the organisation’s environmental work.

The c-PCR may specify rules on additional environmental information to be declared in the EPD.

The additional environmental information section shall not include any claims (e.g., including certificates), related to the environmental performance indicators or other LCA indicators, that do not comply with the LCA rules of this PCR. For example, carbon-neutrality claims are not allowed, neither are claims on the reductions of GHG emissions, or reporting of certificates, based on a mass balance approach.

**ADDITIONAL SOCIAL AND ECONOMIC INFORMATION**

(Add this section if applicable)

The EPD may also include other relevant social and economic information as additional and voluntary information. This may be product information or a description of an organisation’s overall work on social or economic sustainability, such as activities related to supply chain management or social responsibility.

Any additional social and economic information declared shall be substantiated and verifiable, and be derived using appropriate methods and be specific, accurate, not misleading, and relevant to the specific product. Quantitative information is preferred over qualitative information.

Further information on which indicators that could be used can be obtained by the Global Reporting Initiative (GRI) documents.

INFORMATION RELATED TO SECTOR EPD

(If this is a sector EPD, the section shall be added)

*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 declared (average or worst-case) results were determined, and*
* *a statement that the document covers average/worst-case values for an entire or partial product category (specifying the percentage of representativeness) and, hence, the declared product is an average/worst-case that is not available for purchase on the market*

ABBREVIATIONS

All abbreviations used in the EPD must be added. In this template, the abbreviations listed that is mentioned in the results tables, for easing the time. Please add all the additional abbreviations used.

|  |  |
| --- | --- |
| **Abbreviation** | **Definition** |
| **General Abbreviations** |
| EN | European Norm (Standard) |
| EPD | Environmental Product Declaration |
| EF | Environmental Footprint |
| GPI | General Programme Instructions |
| ISO | International Organization for Standardization |
| LCA | Life Cycle Assessment |
| PCR | Product Category Rules |
| c-PCR | Complementary Product Category Rules |
| CEN  | European Committee for Standardization  |
| CLC  | Co-location centre  |
| CPC  | Central product classification  |
| GHS  | Globally harmonized system of classification and labelling of chemicals  |
| GRI  | Global Reporting Initiative  |
| **Environmental Impact Indicators (EN 15804)** |
| GHG  | Greenhouse gas  |
| GWP | Global Warming Potential (kg CO₂ eq.) |
| GWP-fossil | Global Warming Potential from fossil sources (kg CO₂ eq.) |
| GWP-biogenic | Global Warming Potential from biogenic sources (kg CO₂ eq.) |
| GWP-luluc | Global Warming Potential from land use and land use change (kg CO₂ eq.) |
| GWP-total | Total Global Warming Potential (kg CO₂ eq.) |
| GWP-GHG | Global Warming Potential for greenhouse gases (kg CO₂ eq.) |
| ODP | Ozone Depletion Potential (kg CFC-11 eq.) |
| AP | Acidification Potential (mol H⁺ eq.) |
| EP | Eutrophication Potential |
| EP-freshwater | Freshwater eutrophication potential (kg P eq.) |
| EP-marine | Marine eutrophication potential (kg N eq.) |
| EP-terrestrial | Terrestrial eutrophication potential (mol N eq.) |
| POCP | Photochemical Ozone Creation Potential (kg NMVOC eq.) |
| ADP | Abiotic Depletion Potential |
| ADP-minerals&metals | Abiotic depletion potential for non-fossil resources (kg Sb eq.) |
| ADP-fossil | Abiotic depletion potential for fossil resources (MJ) |
| WDP | Water Deprivation Potential (m³) |
| **Resource Use Indicators** |
| PERE | Use of renewable primary energy excluding renewable primary energy resources used as raw materials (MJ) |
| PERM | Use of renewable primary energy resources used as raw materials (MJ) |
| PERT | Total use of renewable primary energy resources (MJ) |
| PENRE | Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials (MJ) |
| PENRM | Use of non-renewable primary energy resources used as raw materials (MJ) |
| PENRT | Total use of non-renewable primary energy resources (MJ) |
| SM | Use of secondary material (kg) |
| RSF | Use of renewable secondary fuels (MJ) |
| NRSF | Use of non-renewable secondary fuels (MJ) |
| FW | Use of net fresh water (m³) |
| Waste Indicators |
| HW | Hazardous Waste (disposed) (kg) |
| NHW | Non-Hazardous Waste (disposed) (kg) |
| RW | Radioactive Waste (disposed) (kg) |
| **Output Flow Indicators** |
| CFR | Components for Reuse (kg) |
| MR | Material for Recycling (kg) |
| MER | Materials for Energy Recovery (kg) |
| EEE | Exported Energy, Electricity (MJ) |
| EET | Exported Energy, Thermal (MJ) |
| **Lifecycle Stages / Modules** |
| A1 | Raw material supply |
| A2 | Transport |
| A3 | Manufacturing |
| A4 | Transport to site |
| A5 | Construction/Installation |
| B1 | Use |
| B2 | Maintenance |
| B3 | Repair |
| B4 | Replacement |
| B5 | Refurbishment |
| B6 | Operational energy use |
| B7 | Operational water use |
| C1 | Deconstruction/Demolition |
| C2 | Transport to waste processing |
| C3 | Waste processing |
| C4 | Disposal |
| D | Reuse-Recovery-Recycling potential |
| **Other Relevant Terms** |
| SVHC | Substances of Very High Concern |
| EC No. | European Community Number |
| CAS No. | Chemical Abstracts Service Number |
| MJ | Megajoule |
| kg | Kilogram |
| m³ | Cubic Meter |
| NMVOC | Non-Methane Volatile Organic Compounds |
| Sb eq. | Antimony Equivalents |
| P eq. | Phosphorus Equivalents |
| N eq. | Nitrogen Equivalents |
| CFC-11 eq. | Chlorofluorocarbon-11 Equivalents |
| CO₂ eq. | Carbon Dioxide Equivalents |
| kg C | Kilograms of Carbon |
| kg CO₂ eq. | Kilograms of Carbon Dioxide Equivalent |
| ND | Not Declared |
| … |  |
|  |  |
|  |  |

...

REFERENCES

Including a list of all sources referred to in the EPD and in the LCA report, including the GPI (including version number) and PCR (registration number, name, and version) used to develop the LCA and the EPD.

1. General Programme Instructions of International EPDSystem. Version.
2. PCR 2019:14. Name. Version
3. *Other references to be added, e.g. c-PCR used*

...

VERSION HISTORY

It is mandatory to describe the current and previous versions of the EPD, including the version dates. The first version shall be described as the “original version of the EPD”. For each subsequent version, a description of the differences versus the previously published version shall be included.

Original Version of the EPD,20YY-MM-DD

Revision 1, 202X-XX-YY,

Differences versus the previously published version: ...

Revision 2, 202X-XX-YY

Differences versus the previously published version: ...

...



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1. This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO2 is set to zero. [↑](#footnote-ref-2)