

Environmental Product Declaration



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

[Test]

from

[Company name]

[Company logotype placeholder]

| | |
|--------------------------|---|
| Programme: | The International EPD® System, 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 Stockholm Sweden |
| Website: | 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 verification

The 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 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 characterisation 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: [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): [...]

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

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: [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]

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

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). See specific requirements in the PCR;

d) Cradle to gate (A1–A3). See specific requirements in the PCR;

e) Cradle to gate with options (A1–A3 and additional modules). The additional modules may be A4 and A5. See specific requirements in the PCR;

f) 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.

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

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

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 purchased electricity used in the manufacturing process of module A3 accounts for more than 30% of the GWP-GHG results of modules A1-A3, the EPD shall declare the energy source behind the purchased electricity and its climate impact as kg CO₂ eq./kWh (using the GWP-GHG indicator). 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 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 | | | | | | - | - | - | - | - | - | - | - | - | - | - | - |

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.

Content information

| Product components | Weight, kg | Post-consumer material, weight-% | Biogenic material, weight-% and kg C/kg |
|-----------------------------------|------------|----------------------------------|---|
| Material 1 / Chemical substance 1 | | | |
| Material 2 / Chemical substance 2 | | | |
| ... | | | |
| TOTAL | | | |

| Packaging materials | Weight, kg | Weight-% (versus the product) | Weight biogenic carbon, kg C/kg |
|---------------------|------------|-------------------------------|---------------------------------|
| 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 | | | |
| ... | | | |

See the PCR for guidance on filling the above tables.

Results of the environmental performance indicators

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 CO ₂ eq. | | | | | | | | | | | | | | | |
| GWP-biogenic | kg CO ₂ eq. | | | | | | | | | | | | | | | |
| GWP-luluc | kg CO ₂ eq. | 2 | | | | | | | | | | | | | | |
| GWP-total | kg CO ₂ eq. | | | | | | | | | | | | | | | |
| ODP | kg CFC 11 eq. | | | | 6 | | | | | | | | 2.4 | | | |
| AP | mol H ⁺ eq. | | | | | | | | | | | | | | | |
| EP-freshwater | kg P eq. | | | | | | | | | | | | | | | |
| EP-marine | kg N eq. | | | | | | | 0.4 | | | | | | | | |
| EP-terrestrial | mol N eq. | | | | | | | | | | | | | | | |
| POCP | kg NMVOC eq. | | | | | | | | | | | | | | | |
| ADP-minerals&metals* | kg Sb eq. | | | | | | | | | | | | | | 3.9 | |
| ADP-fossil* | MJ | | | | | | | | | | | | | | | |
| WDP* | m ³ | | | | | | | | | | | | | | | |
| 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.

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 | kg CO ₂ 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

| 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 | | | | | | | | | | | | | | | |

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.

| | |
|----------|--|
| 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 indicators. ND shall only be used for voluntary parameters that are not quantified because no data is available.

Other environmental performance indicators

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.

Additional environmental information

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:

- 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;
- 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,
- information on permanent (more than 100 years) storage of biogenic carbon, either in the product, in a landfill, or as a consequence of applying carbon capture and storage (CCS) to the incineration of biogenic carbon, and how this would influence GWP-biogenic results if the GWP-biogenic indicator would allow consideration of such storage (it currently does not according to EN 15804; in case of such storage a virtual emission of biogenic CO₂ has to be added, see Annex 2)
- 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.

Additional environmental 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 social and economic information

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.

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 9.5.1 in GPI 4).

References

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

PCR 2019:14. Name. Version

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

