****

**Environmental**

**Product**

**Declaration**

**In accordance with ISO 14025 and EN 15804**

**Product name**

from

**Company name**

|  |  |
| --- | --- |
| Program | EPD |
| Program operator | Thailand Environmental Institute |
| EPD registration number | XXXXX |
| Publication date | 202X-XX-YY |
| Valid until | 202X-XX-YY |

Picture

*[Company logotype placeholder*]

**General information**

**Programme information**

|  |  |
| --- | --- |
| **Programme** | The International EPD® System |
| **Address** | Thailand Environment Institute Foundation (TEI)  16/151 Muang Thong Thani, Bond Street, Bangpood, Pakkred, Nonthaburi THAILAND 11120 |
| **Website** | [www.tei.or.th](http://www.environdec.com) |
| **E-mail** | greenlabelthailand@tei.or.th |

**Accountabilities for PCR, LCA and independent, third-party verification**

|  |  |
| --- | --- |
| **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> |
| **LCA accountability** | <name, organization> |
| **Independent third-party verification of the declaration and data, according to ISO 14025:2006, via** | ☐ EPD verification by individual verifier  ☐ EPD verification by accredited certification body  ☐ EPD verification by EPD Process Certification  <name, organisation> |

**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 name** |  |
| **Product description** | [product description, application/intended use, technical functions, e.g. expected service life time] |
| **Figure of product** | |

**LCA information**

|  |  |
| --- | --- |
| **Functional Unit** |  |
| **Reference service life** |  |
| **System boundaries** | [B2B, B2C] |
| **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.**

**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***

Sign.......................................................... Verifier (.........................................................)

Date........./...................../...........