

*A n n e x 1*

This document describes the mandatory content to be declared in an ECO EPD.

The example is structured into sections which should be seen as a recommendation of using one page per section in that order: e.g. section 1 describes the front page, section 2 the first page etc. However, since the amount of information in an ECO Platform EPD can vary considerably it is not possible to prescribe the number of pages of an ECO Platform EPD, e.g. when the performance of several similar products is declared in one document.

For other kind of EPD (electrical sector and other...), it is mandatory to follow this format, taking in account the indicators included into the specific PCR.

# OWNER OF THE DECLARATION



# ENVIRONMENTAL PRODUCT DECLARATION

## PRODUCT NAME

## PLANTS

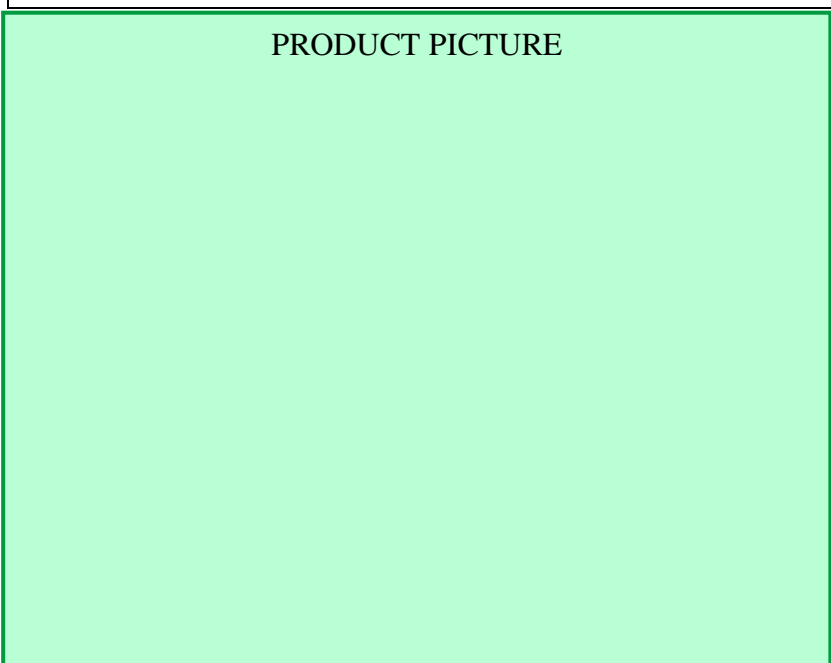
in accordance with ISO 14025 and EN 15804:2012+A1:2013/A2:2019

Program Operator	EPDIItaly o qualsiasi altro Program Operator, in ambito di mutuo riconoscimento
Publisher	EPDIItaly

Declaration Number	1234567890
Registration Number	A1234567890

Issue Date	__ / __ / ____
Valid to	__ / __ / ____

## PRODUCT PICTURE



Registered under the mutual recognition between EPDIItaly and Other Program Operator (in case of mutual recognition).

[www.epditaly.it](http://www.epditaly.it)

## *Section A*

### **A.1 PICTURES, LOGOS**

General Indication:

- Pictures should relate to the product and the subject of environment
- Logo of the EPD owner
- Logo of EPDIItaly
- Logo of ECO-Platform

### **A.2 COMPLIANCE STATEMENT AND IDENTIFICATION**

The front page of the EPD document should prominently show the conformity to ISO 14025 and EN 15804+A1 or EN 15804+A2. It should also provide all administrative information for understanding which product from which manufacturer is declared, who is the Program Operator responsible for the quality of the declaration, how is the EPD identified, for how long is it valid, whether it has been updated and last but not least whether the EPD conforms to the ECO platform quality requirements.

- Product name;
- Declaration owner's (manufacturer's) name;
- EPDIItaly reference;
- Registration number of the EPD;
- Registration on ECO Platform level;
- Relevant dates of the EPD: date of issue, date of expiry, date of update if relevant;
- Verification statement according to table 2 in EN 15804+A1 or EN 15804+A2.

## Section B

### B.1 GENERAL INFORMATION

- Addresses of declaration owner and EPDItaly;
- Name and location of production site for specific EPD, for associations this information can be given in an Annex to the EPD (see 4.1);
- Unambiguous identification of the product or products, by standards, concessions, product classifications (e.g. CPC Code) or other means;
- Short, transparent description of application, technical functions of the product; including any application specifications for building elements
- Verification signatures in the table from ISO 14025;
- Liability + comparability statement;
- Identification of the PCR or c-PCR (= complementary PCR from product TC);
- Orientation where more information can be found.

### B.2 SCOPE AND TYPE OF EPD

The result tables and the table of the modules shall:

- Only contain values Only contain values or the letters ND (not declared).
- Contain no blank cells, hyphens
- Use ND only for parameters that are not quantified because no data is available.
- ND can be used for modules that may be relevant on building level but cannot be declared on product level, namely Modules B3 - B5. Footnotes shall be used to explain any limitation to the result value
- If a module is assessed then the indicators shall be quantified.
- If the module is not relevant for a product it should not appear in the result tables. If it does appear in the result table, the parameter results are ND, meaning that they are unknown and not zero. This leaves all options open for a building assessment.
- Use the value 0 only for parameters that have been calculated to be 0.
- If no processes can be expected within a declared module, it should be declared with parameter results of value 0, as no mass flows take place. This narrows down the options in a building assessment to a probable scenario. In this case the module should not appear as ND in the table of modules.
- The table of modules illustrating the Type of EPD with respect to the modules considered, e.g. cradle to gate with options (see X and ND in the figure below).
- For EPD complying with EN 15804+A2, Modules A1-A3, C1-C4 and D are mandatory (mdt). A4 and A5 as well as all B-Modules are optional (op). Note that information modules generating any input or output flows considered in the declaration of module D shall also be declared.
- For services declared in A5, A4 is a necessary module, even though this is not mentioned explicitly in EN 15804+A2.

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE								END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Production	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/demolition	Transport	Waste processing	Disposal	reuse- recovery- recycling- potential	
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
x	x	x	x	x	ND	ND	ND	ND	ND	ND	ND	x	x	x	x	x	
mdt	mdt	mdt	op	op	op	op	op	op	op	op	op	mdt	mdt	mdt	mdt	mdt	

- A statement whether the EPD is a specific or any kind of average EPD;

- Description for which geographical location the product's performance has been calculated, i.e. what is the market range, where is the product produced, where may it be applied and where is the end of life;
- Applied background database description, i.e. applied upstream and downstream data beyond the manufacturer's influence;
- Applied LCA software or application, including dated version.
- For EPD following EN 15804+A2 a description of the data quality description is provided in the project report. If the EPD includes a statement about the data quality, it should be in Section B.

## *Section C*

### **C.1 DETAILED PRODUCT DESCRIPTION**

- Description of the product (density included)
- Description of the production processes, preferably visualised application, technical data, condition of delivery
- Product components, main product content, packaging materials, SVHC. When other substances causing indoor air pollution or radioactivity are dealt with, this information can be declared in clause “Scenario and additional technical information”.
- Declared unit, functional unit
- Reference service life (RSL)
- Representativeness of the average when an average EPD is declared, refer to:
  - Description of how the selection of the sites/products has been done and how the average has been determined;
  - Information on the most influencing parameters in the LCA;
  - Information on restrictions to the use of the EPD;
  - Useful information in the EPD for the representativity of average EPD is:
  - A technical description of the average product group (such as density or a property like U-value);
  - The number of manufacturing plants included in the EPD; and/ or
  - The names of manufacturing companies or brands or associations;
  - Sampling process if only representative companies are chosen;
  - Description of the relative production volume covered by the EPD;
  - Geographical coverage;
  - The range of products for which the EPD is relevant, even if data from some products has not been used directly in producing the EPD.

*Section D*

**D.1 LCA RESULTS – MANDATORY IMPACT AND LCI INDICATORS FOR**

[EN 15804+A1]

The results of the underlying LCA is provided in this section as environmental impacts, resource use, output flows and additional information on biogenic carbon. All pre-set parameters of EN 15804 are required. Additional information about biogenic carbon is optional.

In the next tables Module A1, A2 and A3 may be declared as one aggregated module A1-3.

Parameter	Unit	A1	A2	A3	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP Global Warming Potential	[kg CO <sub>2</sub> -Eq.]															
ODP Depletion potential of the stratospheric ozone layer	[kg CFC11-Eq.]															
Acidification Potential of land and water AP	[kg SO <sub>2</sub> -Eq.]															
Eutrophical potential EP	[kg (PO <sub>4</sub> ) <sup>3-</sup> -Eq.]															
Formation potential of tropospheric ozone photochemical oxidants POCP	[kg ethene-Eq.]															
Abiotic depletion potential for non-fossil resources ADPE	[kg Sb-Eq.]															
Abiotic depletion potential for fossil resources ADPF	[MJ]															

Parameter	Unit	A1	A2	A3	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	[m <sup>3</sup> ]															

**Caption:** PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

Parameter	Unit	A1	A2	A3	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	[kg]															
NHWD	[kg]															
RWD	[kg]															
CRU	[kg]															
MFR	[kg]															
MER	[kg]															
EEE	[MJ]															
EET	[MJ]															

**Caption:** HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy

[EN 15804+A2]

For EN 15804+A2 the core indicators are different from EN 15804+A1 with respect to the core indicators and the characterisation factors.

Core Indicator	Unit	A1	A2	A3	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP Global Warming Potential total	[kg CO <sub>2</sub> -Eq.]															
GWP Global Warming Potential fossil fuels	[kg CO <sub>2</sub> -Eq.]															
GWP Global Warming Potential biogenic	[kg CO <sub>2</sub> -Eq.]															
GWP Global Warming Potential land use and land use change	[kg CO <sub>2</sub> -Eq.]															
Depletion potential of the stratospheric ozone layer ODP	[kg CFC11-Eq.]															
Acidification potential, Accumulated Exceedance AP	[mol H+ Eq.]															
Eutrohical potential, fraction of nutrients reaching freshwater end compartment EP-marine	[kg (PO <sub>4</sub> ) Eq.]															
Eutrohical potential, fraction of nutrients reaching marine end compartment EP-marine	[kg N Eq.]															
Eutrohical potential, Accumulated Exceedance (EP-terrestrial)	[mol N Eq.]															
Formation potential of tropospheric ozone photochemical oxidants POCP	[kg NMVOC Eq.]															
Abiotic depletion potential for non-fossil resources ADP-(mineral & metals)	[kg Sb-Eq.]															
Abiotic depletion potential for fossil resources ADP-fossil	MJ, net calorific value															
Water (user) deprivation potential, deprivation-weighted water consumption (WDP)	[m <sup>3</sup> world eq. Deprived]															

## D.2 LCA RESULTS – OPTIONAL IMPACT INDICATORS

A set of optional additional indicators is must be addressed in a mandatory table (see table below) in the EPD if complying with EN 15804+A2. If the EPD owner decides to not declare one or any additional indicator from the list in EN 15804+A2, the boxes for those modules are assigned ND = not declared. Any additional indicator not declared must be identified in the table e.g. as an entry of "ND" to the table or as text.

Parameter	Unit	A1	A2	A3	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Potential Human exposure efficiency relative to U235 (IRP)	[kBq U235 eq]															

For EN 15804+A2 the set of additional indicators must be accompanied by the appropriate disclaimer (EN 15804+A2 clause 7.2.3.3).

Disclaimer 1 – This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.



### D.3 LCA RESULTS – OPTIONAL LCI INDICATORS

During the transition period between EN 15804+A1 and EN 15804+A2, in an EPD according to EN 15804+A2, additional indicators to those required in EN 15804+A2, which declare e.g. GWP modelled according to EN 15804+A1 may be added. However, they must be clearly marked as such.

The following table is an example how biogenic carbon could be declared for the different modules. In EN 15804+A2 biogenic carbon indicators are mandatory. The indicators can be expanded according to this list which is adapted from ISO 21930:2017

Parameter	Unit	A1	A2	A3	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Removals and emissions associated with biogenic carbon content of the bio-based product	[kg CO <sub>2</sub> ]															
Emissions from calcination and removals from carbonation	[kg CO <sub>2</sub> ]															
Removals and emissions associated with biogenic carbon content of bio-based packaging	[kg CO <sub>2</sub> ]															
Net emissions from combustion process of waste from renewable sources in a1-a3 *	[kg CO <sub>2eq</sub> ]															
Gross emissions from combustion of waste, primary and secondary fuels from renewable sources in A1-A3 *	[kg CO <sub>2eq</sub> ]															

\*In cases where the end-of-waste state cannot be defined unambiguously like for combustion of secondary fuels or waste in a cement kiln, the net values are calculated as the GWP [kg CO<sub>2</sub>-Eq.] for the gross emissions, produced by the total renewable input (e.g. secondary fuel and waste input), minus the GWP of the emissions produced by the waste input from renewable sources.

## *Section E*

### **E.1 CALCULATION RULES**

- Declared or functional unit,
- Assumptions,
- Cut off rules,
- Data quality,
- Allocations.

### **E.2 SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION**

- Clear description of processes included within system boundary A1-A3,
- Clear description of scenarios included within system boundaries for further modules beyond A1-A3 including but not limited to transport distances, losses in installation, use and end-of-life,
- Additional technical information as appropriate;
- For EPD complying with EN 15804+A2: Declaration of biogenic carbon content at the production gate, see table below.

### **E.3 MANDATORY ADDITIONAL INFORMATION ON RELEASE OF DANGEROUS SUBSTANCES TO INDOOR AIR, SOIL AND WATER**

Additional information regarding the release of dangerous substances into indoor air, soil and water during use stage.

### **E.4 OTHER OPTIONAL ADDITIONAL ENVIRONMENTAL INFORMATION**

Other relevant additional environmental information.

## *Section F*

### **F.1 REFERENCES**

Bibliographic sources for test descriptions, standards or other documents referenced in the EPD.

### **F.2 ANNEXES**

An Annex may contain all additional information required for specific national use in different countries.