

# **Template for content and format of the project report**

## **For EPD creation for construction products**

**As per ISO 14025 and EN 15804+A2**

**Programme for EPD (Environmental Product Declarations)**

**Bau EPD GmbH**



**[www.bau-epd.at](http://www.bau-epd.at)**

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### Tracking of versions

Version	Comments	Date of changes
1.0	Template created by F. Gschösser and S. Richter based on current structure of PCR-B for EPD as per EN 15804+A2	2020-08-24
2.0	Adaptation of tables for modules C and D, small editorial changes	2021-08-27
3.0	Change of ECO Platform logo (formal)	2021-11-27
4.0	Add indication of LCA method in chapter «General», Institutions of verifiers are deleted (not necessary, individual persons are liable)	2022-04-20
5.0	<b>Changes to general EPD information: LKBS signed with 2 verifiers, title page EPD labelling Energy Mix Approach</b>	<b>2022-06-27</b>

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## Scope

This document contains requirements on the project report for EPD creation as EN 15804 and ISO 14025.

The document is the basis for all EPD created within the programme of Bau EPD GmbH following the rules in published PCR documents. The mandatory content of the corresponding EPD document can be taken from the respective product specific PCR-B documents and can be seen as a short version of the project report. All content parts of the EPD document must be integrated into the project report.

The requirements on the project report include:

- Requirements from EN ISO 14025
- Requirements on the EN 15804:2019+A2 standard as a European core EPD
- Complementary requirements on EPD of Bau EPD GmbH

The calculation rules for the Life Cycle Assessment and Requirements on the project report are specified in a separate document – “Management System Handbook (MS-HB)” of Bau EPD GmbH.

**This template DOES NOT contain any calculation rules but serves only as a template for structure and format.**

## Requirements on the layout of the project report

Bau-EPD GmbH determines the following features with regard to the layout of the project report:

- The document on hand defines the format template for the project report document that is to fill in (download at [www.bau-epd.at](http://www.bau-epd.at)).
- The content of an EPD is not limited in length of text.
- The layout of the front page of the project report is defined and picture material must be accorded with Bau EPD GmbH. The creation of more than one EPD documents referring to the project report is possible. On the frontpage several pictures can be displayed, in the respective EPD documents only those that are declared in the document.
- On the last page of the project report the publishing institution as well as the programme operator (Bau EPD GmbH in both cases), the LCA practitioner and owner of the declaration must be indicated with a logo and full address (including telephone number, fax number, email and website).
- Generally the font „Calibri“ must be used.
- In addition to the EPD as Microsoft Word format an Excel-document must be created including the result tables for electronic transfer and complying to EN 15942 (ITM Matrix). It is mandatory to use the templates of Bau EPD GmbH for these tables also serve to forward data to database owners (OEKOBAUDAT and BAUBOOK).

## Content of the project report

The following format template respective guidance describes the required structure of the project report document including the **required content for each individual chapter**.

In addition to that, this document is giving **specific notes for the creation of the products under study** and **specific LCA calculation rules for the products under study** that must be considered when creating the EPD and underlying LCA study.

Parts of the content that are considered as additional information of optional character (=not required as per international standard and/or guidelines from ECO Platform) are marked in lilac colour. This information is free to choose whether to declare or not and indications can be delivered by the owner of the declaration on an optional basis.

Legend:

Blue:	required content for each chapter
Turquoise:	specific requirements for project report/EPD of materials from the scope of the PCR
Green:	specific LCA rules for project report/EPD of material from the scope of the PCR
Violet:	additional information of optional character

**EPD – project report** for **creation** of an  
**Environmental product declaration** as per ISO 14025 and EN 15804+A2



PUBLISHER	Bau EPD GmbH, A-1070 Wien, Seidengasse 13/3, <a href="http://www.bau-epd.at">www.bau-epd.at</a>
PROGRAMME OPERATOR	Bau EPD GmbH, A-1070 Wien, Seidengasse 13/3, <a href="http://www.bau-epd.at">www.bau-epd.at</a>
OWNER OF THE DECLARATION	Name of declaration owner
DECLARATION NUMBER	To be accorded with Bau EPD GmbH
DEKLARATIONSNUMMER ECOPLATFORM	To be accorded with Bau EPD GmbH
ISSUE DATE	Date
VALID TO	Date
NUMBER OF DATASETS	Number
ENERGY MIX APPROACH	MARKET BASED APPROACH

**Name and description of product**

**Name of declaration owner**

**picture**

**To be accorded with  
declaration owner and Bau  
EPD GmbH**

**Company logo  
of declaration owner**

Optional:  
Notes for copyright:

Example:

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All information and reference, data and results which are contained in this document were compiled by the author(s) after best knowledge and certain and examined with greatest possible care.

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## 1 General information

<b>Product name</b> Name and description of product	<b>Declared Product / Declared Unit</b> Description of the declared product and declared unit/functional unit
<b>Declaration number</b> To be accorded with Bau EPD GmbH	<b>Number of datasets in EPD Document(s):</b> XX
<b>Declaration data</b> <input type="checkbox"/> Specific data <input type="checkbox"/> Average data	<b>Range of validity</b> The product, the sites and location (region, country) on which the data of the LCA study is based must be cited. In case of average EPD the calculation of the average must be described shortly. By doing so, the representativity of the declaration with regard to the product masses covered by the LCA and the used technologies must be described. The range of variation of the product group described and declared in the interpretation must be stated.
<b>Declaration based on:</b> MS-HB Version XX dated TT.MM.YYYY: Name of PCR PCR-Code Version XX dated TT.MM.YYYY (PCR tested and approved by the independent expert committee = PKR-Gremium) The owner of the declaration is liable for the underlying information and evidence; Bau EPD GmbH is not liable with respect to manufacturer information, life cycle assessment data and evidence.	
<b>Type of Declaration as per EN 15804</b> From cradle to ... LCA-Methode: ...(i.e. Cut-off by classification) ....	<b>Database, Software, Version</b> Declaration of background database, Software used and both its versions
<b>Author of the Life Cycle Assessment</b> Name of the author Institution, Address website	<b>The CEN standard EN 15804:2019+A2 serves as the core-PCR.</b> <b>Independent verification of the declaration according to ISO 14025:2010</b> <input type="checkbox"/> internally <input checked="" type="checkbox"/> externally <b>Verifier 1:</b> Name <b>Verifier 2:</b> Name
<b>Owner of the Declaration</b> Name of the manufacturer/owner Institution, Address website	<b>Publisher and Programme Operator</b> Bau EPD GmbH Seidengasse 13/3 1070 Vienna Austria

DI (FH) DI DI Sarah Richter  
 Head of Conformity Assessment Body

Academic Title Name  
 Verifier

Academic Title Name,  
 Verifier

**Note:** EPDs from similar product groups from different programmes might not be comparable.



**Date of project report:** Version 1, date

**Internal number of the project:** optional

**Scope of the study:**

Creation of LCA calculation as on the basis of received inventory data for XXXXX.

Text

Based on:

Text

**Description of the goals of the study:**

„The LCA study serves as a basis for the preparation of an Environmental product declaration (EPD). It was calculated following the rules auf Bau EPD GmbH as a programme operator for EPD creation and is in compliance with EN 15804:2019+A2. The results are assigned to be published in an EPD document. The data is prospected for EPD business-to-business communication.”

Any further goals of the study must be stated here.

Text

Based on:

Text

## 2 Product

### 2.1 General product description

Content as defined in product specific PCR-B document.

### 2.2 Application field

Content as defined in product specific PCR-B document.

### 2.3 Standards, guidelines and regulations relevant for the product

Content as defined in product specific PCR-B document.

**Table 1: Product specific standards**

Standard	Title

### 2.4 Technical data

Content as defined in product specific PCR-B document.

**Table 2: Technical data for product category XX**

Characterization	Value	Unit

### 2.5 Basic/auxiliary materials

Content as defined in product specific PCR-B document.

**Table 3: base materials in mass-% (example)**

Components:	Function	Mass %
XXX <sup>1)</sup>		
XXX <sup>2)</sup>		
XXX <sup>3)</sup>		

<sup>\*)</sup> **Optional:** footnote with description for each component

## 2.6 Production

Content as defined in product specific PCR-B document.

Graphic/diagramme

Figure 1: Example of a flow chart/graphic production stage

## 2.7 Packaging

Content as defined in product specific PCR-B document.

## 2.8 Conditions of delivery

Content as defined in product specific PCR-B document.

## 2.9 Transport

Content as defined in product specific PCR-B document.

## 2.10 Processing/ installation

Content as defined in product specific PCR-B document.

## 2.11 Use stage

Content as defined in product specific PCR-B document.

## 2.12 Reference service life (RSL)

Content as defined in product specific PCR-B document.

Table 3: Reference service life (RSL)

Characterization	value	unit
		years
Reference conditions on which the RSL is based (if relevant)		Individual units

## 2.13 Reuse and recycling

Content as defined in product specific PCR-B document.

## 2.14 Disposal

Content as defined in product specific PCR-B document.

## 2.15 Further information

Content as defined in product specific PCR-B document.

## 3 LCA: Calculation rules

### 3.1 Declared unit/ Functional unit

The declared resp. functional unit, the mass reference and the conversion factor to 1 kg must be declared in a table.

#### Specific LCA calculation rules for product XX:

Text

**Table 4: Declared unit/Functional unit (can be shown in two tables if both are declared)**

characterization	value	unit
declared unit	1	m <sup>3</sup>
Calculation factor for conversion into kg		-

If average results of different products are declared, the methods of calculating the average values must be explained.

In this case the average value of nominal density/ weight per unit used for calculating the LCA must be declared as an additional information.

### 3.2 System boundary

The type of EPD with regard to the applied system boundaries must be stated in the EPD.

- From cradle to gate
- From cradle to gate – with options
- From cradle to grave

All declared life cycle stages (modules) must be marked with „X“ in **Table 5**. Modules not declared must be marked with MND.

**Table 5: Declared life cycle stages**

PRODUCT STAGE			CON- STRUCTION PROCESS STAGE		USE STAGE							END-OF-LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Construction, installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction, demolition	Transport	Waste processing	Disposal	Reuse- Recovery- Recycling- potential
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

X = included in LCA; MND = Module not declared

The modules assessed in the LCA study must be described shortly. It should be made apparent, which processes are calculated in which module and how the system boundaries to nature resp. to other product systems are set (if relevant for the declared product).

If not all modules are declared in an EPD, a clear justification must be given.

#### **Specific LCA calculation rules for product XX:**

A1-A3:

Text

A4-A5:

Text

B1-B7:

Text

C1 - C4 und D:

Text

### **3.3 Flow chart of processes/stages in the life cycle**

A meaningful flow chart describing the manufacturing process shall give further aid to comprehension. The flow chart must be subdivided at least into the phases of life cycle declared (production, use, end-of-life). The phases can be partitioned into appropriate process stages.

### **3.4 Estimations and assumptions**

Estimations and assumptions important for the interpretation of the LCA can be stated here, if not already documented in other chapters.

### **3.5 Cut-off criteria**

The application of cut-off criteria must be documented here according to PCR-part A „General Rules for LCA assessment and requirements on the project report“.

### 3.6 Data sources

The quality of the collected data must be described.

### 3.7 Data quality

The sources of the used data sets must be declared. If necessary, additional information on the quality of the used data sets shall be made (estimations). The issuing year of the used data material must be indicated.

### 3.8 Reporting period

The period under review must be documented (in case of average EPD this would be the basis of the calculated average).

### 3.9 Allocation

The allocations of relevance for calculation (appropriation of expenses across various products) must be indicated, at least:

- System boundary settings/allocation in the use of recycled and/or secondary raw materials
- Allocation concerning co-products
- Allocation of energy, auxiliary and operating materials used for individual products in a factory
- Loads and credits from recycling or energy recovery of packaging materials and production waste
- Loads and credits from recycling or energy recovery from the end of life of the product

whereby reference must be made to the modules in which the allocations are performed.

Detailed regulations concerning calculation of secondary materials and allocation from PCR part A "LCA rules" apply in all studies.

#### **Specific LCA calculation rules for product XX:**

Text

### 3.10 Comparability

With reference to comparability of EPD data the following facts must be mentioned:

Comparison or benchmarking of EPD data is only possible, if all compared data sets are calculating following EN 15804, the same programme specific PCR-rules or other additional rules. The same background data sources and software versions must be applied. Moreover, the context of the function in the building or product specific features of performance must be considered.

## 4 LCA: Scenarios and additional technical information

The following information is mandatory to give for all declared modules, for modules not declared it is optional. If need, additional information can be declared.

### 4.1 A1-A3 product stage

Following EN 15804 no scenario documentation is required for A1-A3 for the declaration and calculation of these modules lies within the responsibility of the manufacturer and must not be altered by the LCA practitioner.

Note: the masses of packaging per declared unit must be indicated, this is especially important if A5 is not declared.

## 4.2 A4-A5 Construction process stage

Table 6 and the units listed must be used for calculation the environmental impact of the transport phase.

Table 7 and the units listed must be used for calculation the environmental impact of the installation into the building.

**Table 6: Description of the scenario „Transport to building site (A4)“**

Parameters to describe the transport to the building site (A4)	Quantity per m <sup>3</sup> insulation material
Average transport distance	km
vehicle type, Commission Directive 2007/37/EC (European Emission Standard)	-
Fuel type and average consumption of vehicle	l/100 km
Maximum transport mass	tons
Capacity utilisation (including empty returns)	%
Bulk density of transported products	kg/m <sup>3</sup>
Volume capacity utilisation factor (factor: =1 or <1 or ≥ 1 for compressed or nested packaged products)	-

x) The table must be filled with reference to the information available from the datasets used (i.e. in case of transport by ship). The datasets used must be noted in a footnote.

**Table 7: Description of the scenario „Installation of the product in the building (A5)“**

Parameters to describe the installation of the product in the building (A5)	Quantity per m <sup>3</sup> insulation material
Ancillary materials for installation (specified by material);	Meaningful unit
Water use	m <sup>3</sup>
Other resource use	kg
Electricity demand	kWh or MJ
Other energy carrier(s): .....	kWh or other unit (e.g. litres)
Wastage of materials on the building site before waste processing, generated by the product's installation (specified by type)	kg
Output materials (specified by type) as result of waste processing at the building site e.g. of collection for recycling, for energy recovery, disposal (specified by route)	kg
Direct emissions to ambient air, soil and water	kg

## 4.3 B1-B7 use stage

Reference Service life: [a]

Statements to B1 optional as long as no horizontal testing standards do exist. Else: 0

The parameters and the units listed in the following tables must be used for calculation the environmental impact of the use stage (B2-B7). The tables can be excluded if no input or output happens. In this case a note of explanation would be sufficient: "In module BX-BY no material resp. mass flows occur, input +/- output = 0"

**Table 8: Description of the scenario „maintenance (B2)“ based on table 9 in EN 15804**

Parameters maintenance (B2)	value	unit
Maintenance process		Description or source where description can be found
Maintenance cycle		Number per RSL or year <sup>a</sup>
Ancillary materials for maintenance, e.g. cleaning agent, specify materials		Kg/cycle
Waste material resulting from maintenance (specify materials)		kg
Net freshwater consumption during maintenance		m <sup>3</sup>
Energy input during maintenance, e.g. vacuum cleaning, energy carrier type, e.g. electricity, and amount, if applicable and relevant		kWh

**Table 9: Description of the scenario „repair (B3)“**

Parameters repair (B3)	value	unit
Repair process		Description or source where description can be found
Inspection process		Description or source where description can be found
Repair cycle		Number per RSL or year
Ancillary materials, e.g. lubricant, specify materials		Kg or kg/cycle
Waste material resulting from repair, (specify materials)		kg
Net freshwater consumption during repair		m <sup>3</sup>
Energy input during repair, e.g. crane activity, energy carrier type, e.g. electricity, and amount		kWh

**Table 10: Description of scenario „replacement (B4)“**

Parameters replacement (B4)	value	unit
Replacement cycle		Number per RSL or year
Energy input during replacement e.g. crane activity, energy carrier type, e.g. electricity and amount if applicable and relevant		kWh
Exchange of worn parts during the product's life cycle, e.g. zinc galvanised steel sheet, specify materials		kg

**Table 11: Description of scenario „refurbishment (B5)“**



Parameters refurbishment (B5)	value	unit
Refurbishment process		Description or source where description can be found
Refurbishment cycle		Number per RSL or year
Energy input during refurbishment e.g. crane activity, energy carrier type, e.g. electricity, and amount if applicable and relevant		kWh
Material input for refurbishment, e.g. bricks, including ancillary materials for the refurbishment process e.g. lubricant, (specify materials)		kg or kg / cycle
Waste material resulting from refurbishment (specify materials)		kg
Further assumptions for scenario development, e.g. frequency and time period of use, number of occupants		Units as appropriate

**Table 12: Description of scenarios „energy (B6)“ resp. „Water (B7)“**

Parameters energy (B6) and water (B7)	value	unit
Ancillary materials, e.g. lubricant, specify materials		Kg or kg/cycle
Net fresh water consumption		m <sup>3</sup>
Type of energy carrier, e.g. electricity, natural gas, district heating		kWh or m <sup>3</sup>
Power output of equipment		kW
Characteristic performance, e.g. energy efficiency, emissions, variation of performance with capacity utilisation etc.		units as appropriate
Further assumptions for scenario development, e.g. frequency and period of use, number of occupants		units as appropriate

#### **Specific LCA calculation rules for product XX:**

Text

#### **4.4 C1-C4 End-of-Life stage**

Short description of processes concerning disposal and scenarios going with that (i.e. for transport).

#### **Specific LCA calculation rules for product XX:**

Text.

**Table 13: Description of the scenario „Disposal of the product (C1 to C4)“**

(Procedures of collection and recovery must be described in a footnote (including technical features)).

Parameters for End-of-Life stage (C1-C4)	value	Quantity per m <sup>3</sup> insulation material
Collection process specified by type		kg collected separately
		kg collected with mixed construction waste
Recovery system specified by type		kg for re-use
		kg for recycling
		kg for energy recovery
Disposal specified by type		kg product or material for final deposition
Assumptions for scenario development, e.g. transportation		Appropriate units

#### 4.5 D Potential of reuse and recycling

Short description of assumptions for reuse-, recover- and recycling processes.

##### Specific LCA calculation rules for product XX:

Text

**Table 14: Description of the scenario „re-use, recovery and recycling potential (module D)“**

(Substituted primary materials resp. technologies must be declared in a separate footnote (including technical information)).

Parameters for module D	value	unit
Materials for reuse, recovery or recycling from A4-A5		%
Energy recovery or secondary fuels from A4-A5		MJ/t resp. kg/t
Materials for reuse, recovery or recycling from B2-B5		%
Energy recovery or secondary fuels from B2-B5		MJ/t resp. kg/t
Materials for reuse, recovery or recycling from C1-C4		%
Energy recovery or secondary fuels from C1-C4		MJ/t resp. kg/t

## 5 LCA: results

The declaration of environmental indicators must be listed in the following tables (Table 15 bis Table 19) with reference only to the declared life cycle stages. Indicator values should be declared with three valid digits (eventually exponential form (e.g. 1.23E-5 = 0.0000123). A uniform format should be used for all values of one indicator.

It is preferred that the definitions of the environmental indicators are spelled out completely to ensure the best possible readability. If space is needed in case of too many columns the defined abbreviations are accepted.

**Table 15: Parameters to describe the environmental impact**

Parameter	unit	A1-A3	A4	A5	B1	B2	B5	B6	B7	C1	C2	C3	C4	D
GWP total	kg CO <sub>2</sub> eq.													
GWP fossil fuels	kg CO <sub>2</sub> eq.													
GWP biogenic	kg CO <sub>2</sub> eq.													
GWP luluc	kg CO <sub>2</sub> eq.													
ODP	kg CFC-11 eq.													
AP	mol H <sup>+</sup> eq.													
EP freshwater	kg PO <sub>4</sub> <sup>3-</sup> eq.													
EP marine	kg N eq.													
EP terrestrial	mol N eq.													
POCP	kg NMVOC eq.													
ADPE	kg Sb eq.													
ADPF	MJ H <sub>u</sub>													
WDP	m3 Welt eq. entz.													
Legende	GWP = Global warming potential; luluc = land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP = Eutrophierungspotenzial; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources WDP = Water (user) deprivation potential, deprivation-weighted water consumption													

**Table 16: Additional environmental impact indicators**

Parameter	Unit	A1-A3	A4	A5	B1	B2	B5	B6	B7	C1	C2	C3	C4	D
PM	disease incidence													
IRP	kBq U235 eq.													
ETP-fw	CTUe													
HTP-c	CTUh													
HTP-nc	CTUh													
SQP	dimension-less													
Legende	PM = Potential incidence of disease due to Particulate Matter emissions; IRP = Potential Human exposure efficiency relative to U235; ETP-fw = Potential Comparative Toxic Unit for ecosystems; HTP-c = Potential Comparative Toxic Unit for humans – cancer effect; HTP-nc = Potential Comparative Toxic Unit for humans – non-cancer effect; SQP = Potential soil quality index													



Table 17 presents disclaimers which shall be declared in the project report and in the EPD with regard to the declaration of relevant core and additional environmental impact indicators according to the following classification. That can be declared in a footnote in the EPD.

**Table 17: Classification of disclaimers to the declaration of core and additional environmental impact indicators**

ILCD-classification	Indicator	disclaimer
ILCD-Type 1	Global warming potential (GWP)	none
	Depletion potential of the stratospheric ozone layer (ODP)	none
	Potential incidence of disease due to PM emissions (PM)	none
ILCD-Type 2	Acidification potential, Accumulated Exceedance (AP)	none
	Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-freshwater)	none
	Eutrophication potential, Fraction of nutrients reaching marine end compartment (EP-marine)	none
	Eutrophication potential, Accumulated Exceedance (EP-terrestrial)	none
	Formation potential of tropospheric ozone (POCP)	none
	Potential Human exposure efficiency relative to U235 (IRP)	1
ILCD-Type 3	Abiotic depletion potential for non-fossil resources (ADP-minerals&metals)	2
	Abiotic depletion potential for fossil resources (ADP-fossil)	2
	Water (user) deprivation potential, deprivation-weighted water consumption (WDP)	2
	Potential Comparative Toxic Unit for ecosystems (ETP-fw)	2
	Potential Comparative Toxic Unit for humans (HTP-c)	2
	Potential Comparative Toxic Unit for humans (HTP-nc)	2
	Potential Soil quality index (SQP)	2
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.		
Disclaimer 2 – The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.		

**Table 18: Parameters to describe the use of resources**

Parameter	unit	A1-A3	A4	A5	B1	B2	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ, net calorific value													
PERM	MJ, net calorific value													
PERT	MJ, net calorific value													
PENRE	MJ, net calorific value													
PENRM	MJ, net calorific value													
PENRT	MJ, net calorific value													
SM	kg													
RSF	MJ, net calorific value													
NRSF	MJ, net calorific value													
FW	m <sup>3</sup>													
Legend	<p>PERE = Renewable primary energy as energy carrier; PERM = Renewable primary energy resources as material utilization; PERT = Total use of renewable primary energy resources; PENRE = Non-renewable primary energy as energy carrier; PENRM = Non-renewable primary energy as material utilization; 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 fresh water</p>													

**Table 19: Parameters describing LCA-output flows and waste categories**

Parameter	unit	A1-A3	A4	A5	B1	B2	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg													
NHWD	kg													
RWD	kg													
CRU	kg													
MFR	kg													
MER	kg													
EEE	MJ													
EET	MJ													
Legend		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 electric energy; EET = Exported thermal energy												

**Table 20: Information describing the biogenic carbon content at the factory gate**

Biogenic carbon content	Unit
Biogenic carbon content in product	kg C
Biogenic carbon content in accompanying packaging	kg C
NOTE 1 kg biogenic carbon is equivalent to 44/12 kg of CO <sub>2</sub>	

## 6 LCA: Interpretation

For better understanding of the LCA, the aggregated indicators of the inventory analysis as well as those of the impact assessment (LCIA) from chapter 5 must be interpreted in a dominance analysis. The interpretation must describe a range resp. variance of LCIA results, if the EPD is valid for more than one product.

It is recommended to illustrate the results with graphic elements (i.e. the dominance analysis showing distribution of environmental impacts over several modules...)

When declaring average products, the range of possible results for the individual products for the main impact categories that are relevant to the materials used must be specified.

As for module D, the interpretation must declare, that the benefits and loads lie beyond the system boundary. Any graphic elements showing result interpretation of the life cycle must be created in a way, that modules A1-C4 and module D are displayed separate picture elements. Alternatively, the results can be interpreted without graphic elements.

### Extension of an EPD:

**It is mandatory to declare in a separate block in the project report:**

**Reasons for deviations of results of single indicators of more than 15% compared to the results before. This serves as an information for verifiers and enhances legal compliance. Users of the data can be informed of such facts.**

**Claims that can be published (i.e. same framework conditions, different electricity mix) can be declared in the EPD, if desired.**

## 7 Description of representativity of average EPD

In case of average EPD the following information must be given:

- a) The market(s) for which the average EPD are representative;
- b) A list of all production sites and products considered in the calculation



## 8 Literature

Relevant standards and sources for the preparation of the EPD resp. for the definition of the product must be listed here. The full documentation of references is to be done as follows:

Author, First name. and Author, First name. (year). Title of article. subtitle. location: publishing company.  
 Author, First name. (year). Title of article. In: Surname, First name. and Surname, First name. (Publishing company): Name of paper. Bd. 2 or year number, 207-210.  
 Organisation (Year): Full name of standard or rule. Date of Issue. Location. Legal institution.

Always to be quoted:

ÖNORM EN ISO 14040 Environmental management - Life cycle assessment -- Principles and framework

ÖNORM EN ISO 14044 Environmental management - Life cycle assessment -- Requirements and guidelines

ÖNORM EN ISO 14025 Environmental labels and declarations -Type III environmental declarations -- Principles and procedures

ÖNORM EN 15804 Sustainability of construction works - environmental product declarations. Core rules for the product category of construction products

General Principles and Guidelines Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Background Report. Bau-EPD GmbH, in the current version

## 9 Directory and Glossary

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## 9.3 Abbreviations

### 9.3.1 Abbreviations as per ÖNORM EN 15804

EPD	environmental product declaration
PCR	product category rules
LCA	life cycle assessment
LCI	life cycle inventory analysis
LCIA	life cycle impact assessment
RSL	reference service life
ESL	estimated service life
EPBD	Energy Performance of Buildings Directive
GWP	global warming potential
ODP	depletion potential of the stratospheric ozone layer
AP	acidification potential of soil and water
EP	eutrophication potential
POCP	formation potential of tropospheric ozone
ADP	abiotic depletion potential

### 9.3.2 Abbreviations as per PCR on hand

CE-mark	french: Communauté Européenne or Conformité Européenne = EC certificate of conformity
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

## **Annex 1 - Documentation of data collection and calculation procedure**

## **Annex 2 – Table of basic/auxiliary material in detail**

Table, text

## **Annex 3 – Inventory analysis, Input-Output tables, LCA-Model**

Chosen data sets from the respective background data base, justification for using additional or alternative datasets

Description of allocation of process data to generic data

Screenshots of inventory analysis resp. LCA Model

## **Annex 4 – Key figures**



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Logo

#### Author of the Life Cycle Assessment

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Logo

#### Owner of the declaration

Name of creator in person  
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