

Template for content and format of the project report

For EPD creation for construction products

As per ISO 14025 and EN 15804+A1

Programme for EPD (Environmental Product Declarations)

Bau EPD GmbH



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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+A1	2019-09-17
2.0	Adaptations comparing A1 and A2 by S.Richter	2020-08-24
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	Changes to general EPD information: LKBS signed with 2 verifiers, title page EPD labelling Energy Mix Approach	2022-06-27

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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 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 – “General Rules for LCA assessment and requirements on the project report-PCR-Part A” of Bau EPD GmbH.

The general principles for the EPD range of Bau EPD GmbH, called “basis document”, also apply.

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 (Word file „Format template project report Bau EPD GmbH“, download at 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 recommended 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 EPD of materials from the scope of the PCR
Green:	specific LCA rules for EPD of material from the scope of the PCR
Violet:	additional information of optional character

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EPD – project report for creation of an
Environmental product declaration as per ISO 14025 and EN 15804+A1



PUBLISHER	Bau EPD GmbH, A-1070 Wien, Seidengasse 13/3, www.bau-epd.at
PROGRAMME OPERATOR	Bau EPD GmbH, A-1070 Wien, Seidengasse 13/3, www.bau-epd.at
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

Product name Name and description of product	Declared Product / Declared Unit Description of the declared product and declared unit/functional unit Number of datasets in EPD Document(s): XX Range of validity 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.
Declaration number To be accorded with Bau EPD GmbH	
Declaration data ☐ Specific data ☐ Average data	
Declaration based on: 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.	
Type of Declaration as per EN 15804 From cradle to LCA-Methode: ... (i.e. Cut-off by classification)	Database, Software, Version Declaration of background database, Software used and both its versions
Author of the Life Cycle Assessment Name of the author Institution, Address website	The CEN standard EN 15804:2014+A1 serves as the core-PCR. Independent verification of the declaration according to ISO 14025:2010 ☐ internally ☒ externally Verifier 1: Name Verifier 2: Name
Owner of the Declaration Name of the manufacturer/owner Institution, Address website	Publisher and Programme Operator 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 15804:2014+A1. 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 ¹⁾		
XXX ²⁾		
XXX ³⁾		

^{*)} **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 ³
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 ³ 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 ³
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 ³ insulation material
Ancillary materials for installation (specified by material);	Meaningful unit
Water use	m ³
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)“

Parameters maintenance (B2)	value	unit
Maintenance process		Description or source where description can be found -

Maintenance cycle		Number per RSL or year (not applicable if only B2 is declared)
Net freshwater consumption during maintenance		[m ³]
Ancillary materials for maintenance, (e.g. cleaning agent, specify materials)		[kg, cycle]
Other resources		[kg]
Electricity consumption		[kWh]
Other energy carriers		[MJ]
Loss of material		[kg]
Wastage material during maintenance (specify materials)		[kg]

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
Net freshwater consumption during repair		[m ³]
Ancillary materials (e.g. lubricant, specify materials)		[kg]
Other resources		[kg]
Electricity consumption		[kWh]
Other energy carriers		[MJ]
Loss of material		[kg]
Wastage material during repair (specify materials)		[kg]

Table 10: Description of scenarios „replacement (B4)“ resp. „refurbishment (B5)“

Parameters replacement (B4) resp. refurbishment (B5)	value	unit
Replacement cycle		Number per RSL or year
Electricity consumption		[kWh]
Liters of fuel		[l/100 km]
Exchange of worn parts during the product's life Cycle, specify materials		[kg]

Table 11: Description of scenarios „energy (B6)“ resp. „Water (B7)“

Parameters energy (B6) and water (B7)	value	unit
Net fresh water consumption		[m ³]
Electricity consumption		[kWh]
Other energy carriers		[MJ]
Power output of equipment		[kW]

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 12: 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 ³ 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

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 13: 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 14 bis Table 16) 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 14: Parameters to describe the environmental impact

Para- meter	Unit in equivalents	A1- A3	A4	A5	B1	B2	B5	B6	B7	C1	C2	C3	C4	D
GWP	kg CO ₂													
ODP	kg CFC-11													
AP	kg SO ₂													
EP	kg PO ₄ ³⁻													
POCP	kg C ₂ H ₄													
ADPE	kg Sb													
ADPF	MJ H _u													
Legend	GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; 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													

Table 15: Parameters to describe the use of resources

Para- meter	unit	A1-A3	A4	A5	B1	B2	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ H _u													
PERM	MJ H _u													
PERT	MJ H _u													
PENRE	MJ H _u													
PENRM	MJ H _u													
PENRT	MJ H _u													
SM	kg													
RSF	MJ H _u													
NRSF	MJ H _u													
FW	m ³													
Legend	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													

Table 16: 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												

Note: Here is the place to declare optional indicators and results, impact and/or LCI (Waterscarcity, Humantox, Landuse, Biogenic Carbon...)

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...)

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:

- The market(s) for which the average EPD are representative;
- 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:

Rules and standards:

Product specific standards

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 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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