

Template for content and format of the project report for PRE-STUDIES for EPD creation for construction products

As per ISO 14025 and EN 15804+A2

Additional and compatible with the Programme for EPD (Environmental Product Declarations) of 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 the current structure of the product-specific PCR as per EN 15804+A2. Amendment texts for preliminary studies incorporated	2023-10-02
2.0	Incorporation ECO Platform Standards December 2023 and June 2024, Additions and adaptations with reference to EN 15941, incorporation of resolution Adaptation to France totals columns in results tables	2024-11-06
3.0	Exchange of Annexes 3 and 4 in the chronology, additions in both Annexes, the current Annex 3 is mandatory (representativeness assessment with school grades according to EN 15804 supplemented by the aspects of precision, completeness and consistency) and the current Annex 4 is informative (ILCD-format) Hf: Layout correction and editorial changes, changes based on the results of the ECO Platform Audit and the ECO Platform Standards December 2024. Redundancies with tables in later chapters have been removed in chapter 2.9.	2025-02-25



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Scope

This document contains requirements on the project report for a pre-study for EPD creation as EN 15804:2019+A2:2019+corr2021 and ISO 14025.

The document is the basis for all pre-studies to EPDs created within the programme of Bau EPD GmbH following the rules in published PCR documents. The mandatory content of the corresponding pre-study 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 pre-study document must be integrated into the pre-study project report.

The distinction between preliminary studies and actual EPDs from Bau EPD GmbH can be made as follows:

Preliminary studies do not take place within the scope of accreditation of Bau EPD GmbH and do not have to comply with all points of the specifications of the umbrella organisation ECO Platform. They may or may not comply with EN 15804 in all respects. They may contain specific data or generic data and should be as representative as possible. If the data for A1-A3 originate from research projects, extrapolations or simulations and/or no representative, sufficient period of time can be demonstrated for an actual life cycle inventory data collection at the plant, the project must in any case be regarded as a preliminary study. Preliminary studies are useful for innovations and start-ups, but also for other purposes, and are reviewed by Bau EPD GmbH in accordance with the procedure for EPDs within the scope of accreditation. However, they do not receive an accreditation mark or an ECO Platform logo and are only valid for 2 years. It must be stated in the project report when the actual data collection is scheduled to begin. The data must then be replaced and a new verification for EPDs within the scope of accreditation must be carried out. In any case, the preliminary study is withdrawn as expired when the 2-year period is over, even if no EPD can follow promptly.

The requirements for the project report for preliminary studies include in principle, whereby exceptions may be justified as mentioned above:

- Requirements from EN ISO 14025 •
- Requirements on the EN 15804:2019+A2+Corr2021 standard as a European core EPD
- Requirements from EN 15941 for data quality information for recording the environmental quality of products Selection and application of data
- Complementary requirements on EPD of Bau EPD GmbH
- Complementary-PCR (c-PCR) from CEN, if available, are always to be applied simultaneously with the PKR-B from Bau EPD GmbH. The documents complement each other.

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 <u>www.bau-epd.at</u>).
- 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 pre-study documents referring to the project report is possible. On the frontpage several pictures can be displayed, in the respective pre-study public 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.
- Optional on clients request: In addition to the pre-study 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). Note: Bau EPD GmbH does not feed data from preliminary studies into the usual databases.

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 pre-study to an 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 of the pre-study of materials from the scope of the PCR
<mark>Green:</mark>	specific LCA rules for project report of the pre-study of material from the scope of the PCR
Violet:	additional information of optional character



project report for creation of a PRELIMINARY STUDY for an

Environmental product declaration as per ISO 14025 and EN 15804+A2

Baustoffe mit Transparenz

OWNER AND PUBLISHER PROGRAMME OPERATOR HOLDER OF THE DECLARATION DECLARATION NUMBER ISSUE DATE VALID TO NUMBER OF DATASETS ENERGY MIX APPROACH

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Bau EPD GmbH, A-1070 Wien, Seidengasse 13/3, www.bau-epd.at Bau EPD GmbH, A-1070 Wien, Seidengasse 13/3, www.bau-epd.at Name of declaration holder To be accorded with Bau EPD GmbH Date Date Number 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:

This work is protected by copyright. Any rights derived from the copyright, in particular those of translation, reproduction, extraction of illustrations, broadcasting on radio or photomechanical reproduction, as well as the data storage remain reserved to the authors, even if only certain extracts of the paper are affected.

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.

However, errors cannot be excluded completely. Publishers and authors cannot take a legal responsibility nor any liability for incorrect content elements and their consequences either.

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1 General information



Product name	Declared Product / Declared Unit	
Name and description of product	Description of the declared product and declared unit/functional unit	
Declaration number		
To be accorded with Bau EPD GmbH	Number of datasets in this pre-study to an EPD Document(s): XX	
Declaration data Specific data	Range of validity	
Average data	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 datasets for pre-studies for 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	
Declaration based on:	used technologies must be described.	
MS-HB Version XX dated TT.MM.YYYY:	If no plants exist as part of the preliminary study or production has not yet	
Name of PCR	started, a brief description must be given of the data basis and calculation	
PCR-Code	on which the LCA can be calculated. Points from EN 15804 that cannot be	
Version XX dated TT.MM.YYYY	complied with must be quoted and justified. Points from c-PKR and PKR-B	
(PCR tested and approved by the independent expert committee = PKR-Gremium)	that cannot be complied with must be cited and justified.	
Version of EPD-Format-Template M-Dok 13aA2	Goal of the study	
The owner of the declaration is liable for the underlying	Description of the goal of the study:	
information and evidence;	'This life cycle assessment serves as the basis for issuing an environmental	
Bau EPD GmbH is not liable with respect to manufacturer	product declaration (EPD). The results are intended to be published in an	
information, life cycle assessment data and evidence.	EPD. The data is intended for an EPD for 'business-to-business' (B2B) and/or	
	'business-to-consumer' (B2C) communication.'	
	If there are additional objectives of the study, these must be stated.	
Type of Declaration as per EN 15804	Database, Software, Version	
From cradle to	Declaration of backround database, Software used and both its versions	
LCA-Methode:(i.e. Cut-off by classification)	Version Characterisation Factors: Quelle, Version	
Author of the Life Cycle Assessment	The CEN standard EN 15804:2012+A2:2019+AC2021 serves as the core-	
Name of the author	PCR. The c-PCR of CEN xxx has been applied	
Institution	Independent verification of the declaration according to ISO 14025:2010	
Address,		
Postal Code, city	internally 🛛 externally	
Country		
	Verifier 1: Name	
	Verifier 2: Name	
Holder of the Declaration	Owner Dublisher and Decrement O	
Name of the manufacturer Owner, Publisher and Programme Operator		
Address,	Bau EPD GmbH	
Postal Code, city	Seidengasse 13/3	
Country	1070 Vienna	
	Austria	

DI (FH) DI DI Sarah Richter

Head of Conformity Assessment Body



Academic Title Name Verifier Academic Title Name, Verifier

Note: Information 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.

Based on: Text	Text			
Text				
Text	Pacod on:			
	Based on:			

Description of the goals of the study:

Any further goals of the study must be stated here.

Text

Based on: Text



2 Product

2.1 General product description

For the product description, the characteristics of the declared product must be described. In the case of an average EPD/preliminary study (sector EPD), all declared products must be described separately.

Orientation points for the general product description are:

- Separate description of the products in accordance with the applicable product standard, stating the type designations

- Description of the characteristic components

- All plant locations for the respective product categories must be specified; alternatively, reference can be made to an overview in the appendix (mandatory information in the project report and EPD document).

- All manufacturers who have provided data for the life cycle inventory of the EPD must be listed (mandatory information in the project report and in the EPD document).

Specific note on the preparation of a preliminary study/EPD for product category XY:

Content as defined in product specific PCR-B document.

2.2 Application field

The use and application purpose of the named products are to specify. The individual applications (including functions) must be declared as a text or table format.

Specific notes for the creation of an EPD for product XY:

Text

2.3 Standards, guidelines and regulations relevant for the product

The respective standard and/or general technical approval or comparable national regulation must be indicated.

Optional: Documentation under the frame of CE -certification such as certificates of constancy of performance, certificates of conformity of the internal production control on the manufacturer's site, Declarations of performance, Official certificates of registration, European Technical Assessments or Technical permissions of construction industry can be cited.

Specific note on the preparation of a preliminary study/EPD for product category XY:

Content as defined in product specific PCR-B document.

Table 1: Product specific standards

Standard	Title

2.4 Technical data

For products carrying a CE marking as per Construction Products Regulation (CPR) the EPD must declare at least the same technical data as required and indicated in the declaration of performance of the manufacturer. What kind of data is required in each individual case is to learn from the document underlying the CE marking: any Harmonized European Standard or European Technical Assessment (ETA). Additional technical data must be listed if relevant for product distinction or specification.

Specific notes for the creation of an EPD for product XY:

Product designation codes of the declared products must be given.



If relevant for the declared product, the following technical construction data in the delivery status must be provided with reference to the testing standard.

Table 2: Technical data for product category XX

Characterization	Value	Unit

For individual pre-study datasets/individual EPDs, the technical data of the product must be listed as required in Table 2.

For "sector EPDs" or "group EPDs" or "association EPDs" or EPDs covering several plants and/or products, the table must be completed, whereby an average value and a range and, if necessary, an additional reference to individual technical product data sheets can be given with "see product data sheets". The technical data must be requested from the manufacturers. The LCA-practitioner of the preliminary study/EPD must state the sources of supply in the preliminary study/EPD document.

For preliminary studies without specific life cycle inventory data collection, representative averages for several planned plants/products must be simulated and derived in the best possible way. The procedure must be described. Deviations from the rules are generally possible and must be justified.

2.5 Basic/auxiliary materials

Content as defined in product specific PCR-B document.

The product components and/or ingredients shall be stated in % by mass to enable the user of the preliminary study/EPD to understand the composition of the product as supplied. This information should also support safety and efficiency during installation, use and disposal of the product.

The declaration of mass-% can be accurate numbers or a range by analogy with REACH¹. The mass of components that make up less than 1 mass-% of the total product mass can be declared with < 1 mass-%.

The declaration of material product content must list at least those substances contained in the product which are included in the "Candidate List of Substances of Very High Concern for Authorization" where their contents exceed the limit values (0.1 mass-% on product level) for registration by the European Chemicals Agency (ECHA²). If substances and preparations lose their hazardous features during manufacturing (e.g. after a complete chemical reaction) they are exempted from the obligation of declaration.

If the content of the material is below the limit of ECHA the following note must be stated in the EPD:

", The content of XXXX is below the limit values of the registration by the European Chemicals Agency (ECHA). Interpreting statements such as "... free of ..." or "... are entirely harmless ..." are not permissible.

The product components must be described in detail, so that their sort of product is clear, but the protection of sensitive data is assured, and company secrets are not revealed.

¹ Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

² European Chemicals Agency: <u>http://echa.europa.eu/de</u>

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For additives, the function and substance class respective chemical group (i.e. hydraulic binders) must be stated. In addition to that all auxiliary materials and additives that stay within the product must be declared.

Specific note on the preparation of a preliminary study/EPD for product category XY:

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

Components:	Function	Mass %
XXX ¹⁾		
XXX ²⁾		
XXX ³⁾		

^{x)} **Optional:** footnote with description for each component

2.6 Product stage

The process of production must be described and illustrated with a simple figure (i.e. flow chart). In case of average EPD the production processes of all sites must be described respective a useful summary must be included and a list of all production sites must be provided in an annex. Quality management systems, eco management systems etc. can be referred to.

Specific notes for the creation of an EPD for product XY:

Origin and proportion of the raw materials, manufacturer-specific and special process chains, special processing methods.

Graphic/diagramme

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

2.7 Packaging

Information concerning each component of packages:

Type (Foil, pallets, etc.), Material (Paper, Polyethylene; including origin, e.g. recycled paper) and Possibilities of reuse (e.g. multi way pallets).

Specific notes for the creation of an EPD for product XY: <u>Text</u>

2.8 Conditions of delivery

Written description of conditions of delivery, units of delivery, size and dimension as well as requirements on storage important for the declared product(s).

2.9 Transport to site

Description of delivery (Route and means of transport)

2.10 Construction process stage

Description of way of treatment, used machines, tools, dust collection etc., auxiliary materials as well as measures of noise reduction. Notes regarding recognized rules of engineering, work safety or protection of the environment can be included.

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verified/approved by: FG/SR



References to detailed processing directives and referrals to user safety (safe use instruction sheets) of the manufacturer are required. If waste from packaging, for example, is present, this must also be indicated.

Specific notes for the creation of an EPD for product XY:

Text

Specific LCA rules for product category XY:

Text if relevant.

2.11 Use stage

Notes describing specific features of the material composition relevant for the use stage.

Specific notes for the creation of an EPD for gypsum boards:

Text

2.12 Reference service life (RSL)

The indication of the reference service life (RSL) is imperative for EPDs covering the complete use stage (modules B1-B7), or if a use stage scenario is described, which refers to the lifetime of the product ("from cradle to grave").

The RSL must refer to the declared technical and functional quality of the product. It must be established in line with all of the specific rules in the European product standards and must also take consideration of the ISO 15686-1, -2, -7 and -8 standards.

Where information is available for deriving the RSL from harmonized European product standards, such data has priority.

The assumption underlying the calculation of the RSL and for those only the RSL can be declared must be stated. Influence on aging as per recognized rules of engineering.

Table 4: Reference service life (RSL)

Characterization	value	unit
Product name		years
Differentiation indoor and outdoor etc. so relevant		years
Reference conditions on which the RSL is based (if relevant)		Individual units

See EN 15804+A2 clause 6.3.4 and Annex A requirements and guidelines for reference service life

If no reference service life can be determined according to the rules of EN 15804+A2 (Annex A), a default value from a complementary PCR of the CEN/TC product committees, if available, must be used. If no complementary PKR is available, the service life can be declared from service life catalogues, depending on the area of application, stating the source, e.g. according to BAU EPD-M-DOCUMENT-20-Reference-usage-times-20150810 (Austria) or the BBSR table "Useful lives of components on life cycle analysis according to BNB" (Germany). If no information can be found there, the RSL can be derived from other sets of regulations (Eurocodes, other basis).

2.13 End of life stage

The different ways of end of life must be described. The EAK-waste disposal code (Disposal code following the European list of waste) must be declared.

2.14 Further information

Content as defined in product specific PCR-B document.

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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. If an average EPD is prepared, the average values used in the LCA and their range must be stated. Please refer to the explanations on averaging in section 5.3.

Specific LCA calculation rules for product XX:

Text

Table 5: Declared unit

characterization	value	unit
declared unit	1	m ³
Bulk density ¹⁾		<u>kg/m²</u>
Weight for conversion into kg		<u>kg</u>

¹⁾ If the gross density corresponds to the conversion factor to 1 kg, the last line is omitted. In the last line, instead of 'weight', the usual term for the weight in question can be stated (e.g. weight per unit area, weight per piece, etc.).

Table 6: Functional unit

characterization	value	unit
functional unit	1	m ³
Bulk density ¹⁾		<u>kg/m²</u>
Weight for conversion into kg		kg

¹⁾ If the gross density corresponds to the conversion factor to 1 kg, the last line is omitted. In the last line, instead of 'weight', the usual term for the weight in question can be stated (e.g. weight per unit area, weight per piece, etc.).

3.2 System boundary

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The type of EPD with regard to the applied system boundaries must be specified in the EPD. All building products and materials must declare modules A1-A3, modules C1-C4 and module D. The following EPD types may be specified:

• from the cradle to the factory gate with modules C1-C4 and module D (A1-A3 + C + D);

• from the cradle to the factory gate with options, modules A1-A3, C1-C4 and D (A1-A3 + C + D and additional modules. The additional modules may be one or more modules selected from A4 to B7);

• from cradle to grave and module D (A + B + C + D)

Exceptions to this rule are specified in EN 15804+A2, point 5.2.

All declared life cycle stages (modules) must be marked with "X" in Table 7. Modules not declared must be marked with ND.



Table 7: Declared life cycle stages

PROD	DUCT ST	TAGE	CON- STRU PROC STAG	CTION ESS	USE S	USE STAGE				END-	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	C C	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	х	x	х	х	х	x	х	x	x	x	x	x	x

X = included in LCA; ND = 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 a pre-study to an EPD, a clear justification must be given.

Specific LCA calculation rules for product XX:			
A1-A3:			
Text			
A4-A5:			
Text			
В1-В7:			
Text			
C1 - C4 und D:			
Text			
2.2 Elow chart of processos (stages in the	life cycle		

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 MS-HB.

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3.6 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

3.7 Comparability

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

Comparison or benchmarking of LCA or EPD data is only possible, if all compared data sets are calculating following EN 15804 in the same version, the same programme specific PCR-rules or other additional rules. The same backround 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.

In the project report and the EPD the following information must be declared:

The emission factors of the carbon footprint of the electricity mix used in XX kg CO2e/kWh.

The energy data sets used must be specified. Minimum: Indication of whether residual mix or self-modelled data sets were used. Information on whether Guarantees of Origin are used must be provided. The mix of energy sources should be specified/displayed.

4.2 A4-A5 Construction process stage

Table 8 and the units listed must be used for calculation the environmental impact of the transport phase.

Table 9 and the units listed must be used for calculation the environmental impact of the installation into the building.

Table 8: 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 \ge 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 9: 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

Parameters maintenance (B2)	value	unit
Maintenance process		Description or
		source where
		description can be
		found
Maintenance cycle		Number per RSL or
		year ^a
Ancillary materials for maintenance, e.g.		Kg/cycle
cleaning agent, specify materials		
Waste material resulting from maintenance (specify materials)		kg
Net freshwater consumption during maintenance		m³
Energy input during maintenance, e.g. vacuum cleaning, energy carrier type, e.g.		
electricity, and amount, if applicable and relevant		kWh

Table 10: Description of the scenario "maintenance (B2)" based on table 9 in EN 15804





Table 11: Description of the scenario "repair (B3)"

Parameters repair (B3)	value	unit
		Description or
Repair process		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		Kg or kg/cycle
materials		
Waste material resulting from repair, (specify materials)		kg
Net freshwater consumption during repair		m ³
Energy input during repair, e.g. crane activity,		kWh
energy carrier type, e.g. electricity, and amount		

Table 12: 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.		kWh
electricity and amount if applicable and relevant		
Exchange of worn parts during the product's life cycle, e.g. zinc galvanised steel sheet,		kg
specify materials		

Table 13: 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		kWh
activity, energy carrier type, e.g. electricity, and		
amount if applicable and relevant		
Material input for refurbishment, e.g. bricks, including ancillary materials for the		kg or kg / cycle
refurbishment process e.g. lubricant, (specify materials)		
Waste material resulting from refurbishment (specify materials)		kg
Further assumptions for scenario development, e.g. frequency and time period of use,		Units as appropriate
number of occupants		



Table 14: Description of scenarios "energy (B6)" resp. "Water (B7)"

Parameters energy (B6) and water (B7)	value	unit
Ancillary materials, e.g. lubricant, specify		Kg or kg/cycle
materials		
Net fresh water consumption		m³
Type of energy carrier, e.g. electricity, natural gas, district		kWh or m³
heating		
Power output of equipment		kW
Characteristic performance, e.g. energy efficiency, emissions, variation of performanc		units as appropriate
with capacity utilisation etc.		
Further assumptions for scenario development, e.g. frequency and period of use,		units as appropriate
number of occupants		

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 15: 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
conection process specified by type		kg collected with mixed construction waste
		kg _{for re-use}
Recovery system specified by type		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 16: 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).

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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 Information on data quality and data selection in accordance with EN 15941

5.1 Principles for the description of data quality

The information on data quality in the EPD must be consistent with the information on data quality provided in the project report and represent an appropriate summary of this data (EN 15941, point 7.3.3).

The project report must take into account the reporting requirements according to EN 15804:2012+A2:2019, 8.2, for example regarding the provision of information on averaging (see chapter 5.3 below) or on LCA rules such as the definition of system boundaries, cut-off rules, etc. (see chapter 3 LCA: Calculation rules).

The text describing the temporal, geographical and technological representativeness must use the terminology provided for the quality level in EN 15804:2012+A2:2019, Table E.1 and Table E.2 (EN 15941, point 7.3.3).

The EPD must contain the following statement (EN 15941, point 7.3.4): The following data quality information shall be provided in accordance with the requirements of EN 15941 (EN 15941, point 7.3.4).

5.2 Description of the temporal, geographical and technological representativeness of the product data

With regard to the temporal, geographical and technological representativeness of the product data, at least the following information must be described in the project report and in the EPD:

Temporal representativeness:

- Data collection period for the raw data
- Indication and justification for the deviation from data collection within one year

Geographical representativeness:

- The geographical area where the product is manufactured and where the construction, use and end of use phases of the product are modelled must be detailed.

Technological representativeness:

- Brief description of the technology and/or relevant inputs for the product or service covered by the EPD

Geographical and technological representativeness for EPDs covering an industry:

- Percentage of total consumption or production of the construction product or service represented by the EPD in the specified market or region in which the EPD is modelled;

Note: Total consumption includes the mix of products consumed in a region, total production includes the mix of products produced in a region.

- Number of products and/or sites included in the EPD;

- All sampling methods used to select sites must be described;

- The relative production volume covered by the data collection must be described in comparison to the production represented by the EPD;

- An explanation of the averaging procedure must be provided;

5.3 Explanation of the averaging process

For EPDs that cover an average environmental quality for several products or several sites, the averaging process must be explained. C:\Users\Sarah\NextBauEPD\Bau EPD GmbH\006 - QM PKR PGF\PKR Allgemein-MS-HB+M-Docs\English-MS-HB and M-Docs\BAU-EPD-M-DOCUMENT-13aA2-prestudy-projectreport-content-and-format-template-EN15804+A2-version3.0-date-2025-02-25-English-Website.docx



Chapter 7 LCA: Interpretation must describe the range of values and the variation of the impact assessment. The results in the core indicators for the environmental impacts of the individual products or sites should not differ significantly. If major differences in impacts are identified for the assessed sites and/or products, a reference must be made here to additional explanations in Chapter 7, e.g.: Information on the range of values and the variation of the impact assessment for the individual products can be found in Chapter 7 LCA: Interpretation.

5.4 Assessment of the data quality of the Life Cycle Inventory data

5.4.1 Summarised assessment in the EPD

The source of the Life Cycle Inventory datasets must be indicated together with their age (e.g. name and dated version of the Life Cycle Inventory/LCA database). Specific EPDs used in the modelling should also be indicated.

It must be stated which table from EN 15804:2012+A2:2019, Annex E was used to assess the data quality of the relevant data.

Any use of authoritative data rated as poor or very poor in terms of time, geography or technology according to EN 15941, 7.1 and EN 15804:2012+A2:2019, 6.3.8.3

- have been assessed as poor or very poor

- have been assessed as medium and whose assessment has resulted in a contribution to any core indicators of more than 30 % must be described, including the justification (the justification must only be given in the project report) for the quality level of the data and for the selection of the data set.

5.4.2 Documentation and evaluation of the raw data and life cycle inventory in the project report

The source of the raw data used in the EPD must be specified in the project report together with all sampling methods and calculations used for averaging.

An assessment of the data quality of the raw data and the life cycle inventory determined for the EPD must be provided in the project report based on one of the two systems described in EN 15804:2012+A2:2019, Annex E (Table E.2 is preferable).

5.4.3 Documentation of the generic and specific data used in the project report

The generic and specific data used in the modelling of the EPD, in particular all data sets of the life cycle inventory or of an upstream or downstream EPD, must be documented in the project report.

For the relevant data, the documentation must include the following:

- temporal coverage, e.g. year or years of collection of raw data and statistics, reference year of the life cycle inventory, validity of the EPD, etc.

geographical scope;

- Technological coverage;

- Source including the year of publication.

In addition, the precision, consistency, completeness of the authoritative data used should be stated; any deviations from the requirements of EN 15804 must be stated and justified in the report, e.g. the use of upstream data that does not respect the allocation principles of EN 15804 must be clearly stated and justified in the project report, see EN 15804:2012+A2:2019, 6.4.3.1.

5.4.4 Assessment of the data quality of the authoritative data in the project report

According to EN 15804, point 6.3.8.3, the term 'significant data' refers to data with a major contribution that together account for at least 80% of the absolute impact of each core indicator included in the EPD, considered over the entire life cycle with the exception of Module D, or over those modules of the life cycle that are included in the EPD. The data quality of Module D must also be considered.

The assessment of the data quality of the relevant data in accordance with 7.1 and EN 15804:2012+A2:2019, 6.3.8.3 must be stated in the project report.

It must be stated which table from EN 15804:2012+A2:2019, Annex E was used to assess the data quality of the relevant data.

In Annex 3 - Life cycle inventory, input-output tables, LCA model, Table 21 shows a possible documentation of the data sets used, including a description of the representativeness according to EN 15941 and assessment according to EN 15804, Annex E for relevant process data.

If a more detailed assessment of the data quality is carried out than with Annex 3 (this is voluntary), it is recommended to use the ILCD format as described in Annex 4 analogue to EN 15941.



Any use of relevant data that has been assessed as poor or very poor in terms of time, geography or technology according to EN 15804 Annex E.

- rated as poor or very poor,

- has been assessed as medium and whose assessment has resulted in a contribution to any core indicators of more than 30%,

must be described, including the justification for the level of quality of the data and for the selection of the data set.

Any data adjustments to improve the representativeness of the data or compliance with the requirements of EN 15804 must also be described.

The relevance of these datasets in terms of contribution to the results of the core indicators must also be described.

5.4.5 Verification of the mass balance in the project report

The verification of the mass balance must be shown in the project report. The mass balances must demonstrate that the inputs are sufficient to produce all outputs, including waste generated, process emissions and biogenic carbon emissions. Water and moisture should also be considered as part of the mass balance or a separate water balance should be provided. (Further information can be found in EN 15941, Annex B Mass balance at product level.

In any case, the mass balance should include

- Documentation of the complete mass balance for the relevant modules and processes.
- Documentation of all input and output flows
- Description of uncertainties if mass balance is not balanced
- Documentation of water balance (as part of the mass balance or separate water balance)
- Documentation of the truncated input and output flows

- Documentation of the correction calculations in the case of allocations, including consideration of inherent material properties (biogenic carbon, energy content, etc.)

5.4.6 Proof of avoidance of double counting in the assessment of electricity and all other relevant energy

The project report must demonstrate that double counting has been avoided in the assessment of electricity and all other relevant energy, see Annex E.

5.4.7 Documentation to support any statement contained in the EPD in the project report

Statements contained in the EPD may include certification to environmental standards such as EN ISO 14001 or certification to technical standards. EN ISO 14021 must be taken into account with regard to environmental statements made in the EPD such as 'recyclate content' and 'recyclable'.

Evidence, e.g. certification, must support any claim made in the EPD.

5.4.8 General note

The data quality of the relevant data for Module D must also be specified.



6 LCA: results

The declaration of environmental indicators must be listed in the following tables 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.

Para-	unit	A1-	A4	A5	B1	B2	B5	B6	B7	B1-	C1	C2	С3	C4	C1-	A-C	D
meter		A3								B7					C4		
GWP total	kg CO₂ eq.																
GWP fossil fuels	kg CO₂ eq.																
GWP biogenic	kg CO₂ eq.																
GWP luluc	kg CO₂ eq.																
ODP	kg CFC-11 eq.																
AP	mol H⁺ eq.																
EP freshwater	kg P eq.																
EP marine	kg N eq.																
EP terrestrial	mol N eq.																
РОСР	kg NMVOC eq.																
ADPE	kg Sb eq.																
ADPF	MJ H _u																
WDP	m3 Welt eq. entz.																
Legende							ODP = AP = Ac EP = Eu photoc ADPE = potenti	Depletion cidification trophica hemical Abiotic al for fos	n potenti on potenti tion pote oxidants; depletior	al of the tial, Accu ential; PC potentia rces WD	; luluc = l stratospl mulated DCP = For al for nor P = Wate	heric ozo Exceeda mation p n-fossil re	ne layer; nce; otential esources;	of tropos	pheric o: Abiotic d	epletion	

Table 17: Parameters to describe the environmental impact

Table 18: Additional environmental impact indicators

Parameter	Einheit	A1- A3	A4	A5	B1	B2	B5	B6	B7	B1- B7	C1	C2	C3	C4	C1- C4	A-C	D
PM	Auftreten von Krankheiten																
IRP	kBq U235 äquiv																
ETP-fw	CTUe																
HTP-c	CTUh																



HTP-nc	CTUh																
SQP	dimensions- los																
Legend					Humar relative Potent	n expos e to U2 ial Con	ure ef 35; ET 1parati	ficienc P-fw = ive Tox	/ Potent ic Unit	ise due to tial Comp for hum ins – non	arative ans – c	e Toxic ancer (Unit fo effect;	or ecos HTP-n	ystems; c = Poter	HTP-c = itial	

Table 19 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 19: Classification of disclaimers to the declaration of core and additional environmental impact indicators

ILCD-classification	Indicator	disclaimer					
	Global warming potential (GWP)	none					
ILCD-Type 1	Depletion potential of the stratospheric ozone layer (ODP)	none					
	Potential incidence of disease due to PM emissions (PM)	none					
	Acidification potential, Accumulated Exceedance (AP)	none					
	Eutrophication potential, Fraction of nutrients reaching	none					
	freshwater end compartment (EP-freshwater)						
	Eutrophication potential, Fraction of nutrients reaching	none					
ILCD-Type 2	marine end compartment (EP-marine)						
	Eutrophication potential, Accumulated Exceedance	none					
	(EP-terrestrial)						
	Formation potential of tropospheric ozone (POCP)	none					
	Potential Human exposure efficiency relative to U235 (IRP)	1					
	Abiotic depletion potential for non-fossil resources	2					
	(ADP-minerals&metals)	2					
	Abiotic depletion potential for fossil resources (ADP-fossil)	2					
	Water (user) deprivation potential, deprivation-weighted	2					
ILCD-Type 3	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 imp	pact category deals mainly with the eventual impact of low dose ioniz	ing radiation on human					
health of the nuclear f	uel cycle. It does not consider effects due to possible nuclear accident	ts, occupational exposure					
nor due to radioactive	waste disposal in underground facilities. Potential ionizing radiation f	from the soil, from radon					
and from some constru	uction materials is also not measured by this indicator.						
Disclaimer 2 – The res	ults 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.							



Parameter	Einheit	A1- A3	A4	A5	B1	B2	B5	B6	B7	B1- B7	C1	C2	С3	C4	C1- C4	A-C	D
		AS								D/					C4		
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		utiliza energy renew RSF =	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 20: Parameters to describe the use of resources



Table 21: Parameters describing LCA-output flows and waste categories

Para- meter	Einheit	A1- A3	A4	A5	B1	B2	B5	B6	B7	B1 - B7	C1	C2	C3	C4	C1- C4	A-C	D
HWD	kg																
NHWD	kg																
RWD	kg																
CRU	kg																
MFR	kg																
MER	kg																
EEE	MJ																
EET	MJ																
Legend	Ra CR	dioacti U = Co	ve was ompon	ste disp ents fo	oosed; or re-u	se; MI	-R = N	lateria	ls for	recyclii	vaste disp ng; MER ed therm	= Mater	ials for				

Table 22: 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 CO2	

7 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 pre-study to an EPD is valid for more than one product.

It is recommended to illustrate the interpretation of the results in the project report with graphs (e.g. the dominance analysis regarding the distribution of environmental impacts across the modules, etc.). In the public document for a prestudy/EPD, graphs should only be inserted at the express request of the declaration holder (this involves a high level of effort in the course of translation services into other languages).

When declaring average products, the range of values and the variation of the key impact categories for the individual products or individual locations must be explained. The results should not differ significantly in the core indicators for the environmental impacts. If major differences in the impacts are identified for the sites and/or products assessed, an additional explanation must be provided.

Regarding Module D, the interpretation in the pre-study to an EPD shall indicate that the credits and loads are outside the product system boundaries. Graphs for the interpretation of life cycle results shall be designed in such a way that modules A1-C4 are shown in one graph

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and module D in separate graphs. Alternatively, the results can be interpreted without graphs, it is recommended to include graphs only in the project report, see above.

First issuance of an EPD following a pre-study:

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.

8 Description of representativity of average EPD/average datasets in pre-studies for EPD

In case of average datasets for pre-studies/EPD the following information must be given:

- a) The market(s) for which the average datasets/EPD are representative;
- b) A list of all production sites and products considered in the calculation that shall get specific inventory data/shall get specific inventory data in future times

9 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:

EN ISO 14025:2006-07 Environmental labels and declarations -Type III environmental declarations -- Principles and procedures

EN ISO 14040:2006+A1:2020 Environmental management - Life cycle assessment -- Principles and framework

EN ISO 140442006+A1:2017+A2:2020 Environmental management - Life cycle assessment -- Requirements and guidelines

EN 15941:2024 Sustainability of construction works - Data quality for the assessment of environmental quality of products and construction works - Selection and application of data

General Principles and Guidelines (MS-HB and applicable M-Docs): Calculation Rules for the Life Cycle Assessment and Requirements on the Background Report. Bau-EPD GmbH, in the current version



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10.

10.3	Abbreviations
10.3.1	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

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10.3.2 Abbreviations as per PCR on hand

CE-markfrench: Communauté Européenne or Conformité Européenne = EC certificate of conformityREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals



Annex 1 - Documentation of data collection and calculation procedure

Table, text

Annex 2 – Table of basic/auxiliary material in detail

Table, text

Annex 3 – Inventory Analysis, Input-Output tables, LCA-Model

Screenshots of the life cycle inventory or the model

Specification of the baseline database, justification if additional or alternative data sets were used

Documentation of the process data, the assigned generic or specific data sets, the data source, the temporal, geographical and technological representativeness and the assessment of the data quality in accordance with EN 15805, Annex E.

Table 21 shows possible documentation of the data sets used, including a description of representativeness in accordance with EN 15941 and assessment in accordance with EN 15804, Annex E for relevant process data. The processes are to be assigned to the respective modules in which they occur. The heading of the table shall indicate whether the assessment is carried out in accordance with Table E.1 or E.2 of EN 15804, Annex E.



Table 23: Relevant process data with documentation of the data sets used, including description of representativeness in accordance with EN 15941 and assessment in accordance with EN 15804, Annex E, Table E.1

Process	Used data		Time-related representativit	у	Geographical representativit	y	Technological representativity	V
Example	Name of dataset	Data set source	Description	Qualit y level	Description	Qualit y level	Description	Qualit y level
Transport	Transport, freight, lorry >32 metric ton, EURO6 {RER} transport, freight, lorry >32 metric ton, EURO6 Cut-off, S	ecoinvent v3.9.1	Reverence year 2009– 2022	2	Europe	2	Euro 6	1
Valid for all life cycle stages								
A1-A3								
A4								<u> </u>
A5								
B1–B7								<u> </u>
C1								<u> </u>
C2								
C3								
C4								
Module D from A5								
Module D from C1-C4								

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Table 23: Relevant process data with documentation of the data sets used, including description of precision, consistency and completeness in accordance with EN 15941

Process	Used data		Aspect of precision	Aspect of completeness	Aspect of consistency
Example	Name of dataset	Data set source	Description	Description	Description
Transport	Transport, freight, lorry >32 metric ton, EURO6 {RER} transport, freight, lorry >32 metric ton, EURO6 Cut-off, S	ecoinvent v3.9.1			
Valid for all life cycle stages					
A1–A3					
A4					
A5					
04.87					
B1–B7					
C1					
C2					
СЗ					
C4					
Module D from A5					
Module D from C1-C4					



Annex 4 – Informative Annex - Description of the data quality of authoritative data according to ILCD data format

If a more in-depth assessment of data quality than Annex 3 is performed (this is optional), it is recommended to use the ILCD format as described below:

The International Reference Life Cycle Data (ILCD) data format uses a standardized nomenclature and classification of data to provide metadata and environmental information for generic and specific life cycle inventory and life cycle assessment for both process module and system datasets used in product life cycle assessment. The ILCD format is composed of fields that are required, recommended or optional within the ILCD. Details of specific data quality criteria from the ILCD are shown for information (source: EN 15941).

Time related coverage

Time related coverage	Requirement		
Field name	Compliance	Compliance requirement type	Value
Data collection	optional	optional	
period (text)			
Reference year	recommended	ILCD documentation-	
(Year)		compliant	
Data set valid until:	recommended	ILCD documentation-	
(Year)		compliant	
Time	recommended	ILCD documentation-	
representativeness		compliant	
description			
Data treatment and	recommended	ILCD documentation-	
extrapolations		compliant	
principles			
Deviation from	recommended	ILCD documentation-	
data treatment and		compliant	
extrapolations			
principles /			
explanations			

Geographical coverage			
	Requirement		
Field name	Compliance	Compliance requirement type	Value
Location	recommended	ILCD format schema valid	
		data set	
Latitude and	optional	optional	
Longitude			
Geographical	optional	ILCD documentation-compliant	
representativeness			
description			
Mix and location	recommended	ILCD documentation-compliant	
types			
Data treatment and	recommended	ILCD documentation-compliant	
extrapolations			
principles			
Deviation from data	recommended	ILCD documentation-compliant	
treatment and			
extrapolations			



principles /		
explanations		

Technological coverage

Field name	Field name	Requirement Compliance	Compliance requirement type
Technology description	recommended	ILCD documentation-compliant	
including background			
system			
Mix and location types	recommended	ILCD documentation-compliant	
Included data sets	recommended	ILCD documentation-compliant	
Technical purpose of	recommended	ILCD documentation-compliant	
product or process			
Pictogram of technology	optional	ILCD documentation-compliant	
Flow diagram(s) or	optional	ILCD documentation-compliant	
picture(s)			
Data treatment	recommended	ILCD documentation-compliant	
and extrapolations			
principles			
Deviation from data	recommended	ILCD documentation-compliant	
treatment and			
extrapolations			
principles /			
explanations			
Percentage supply or	recommended	ILCD documentation-compliant	
production covered			
Annual supply or	optional	optional	
production			
volume			

Aspect of Precision

	Requirement		
Field name	Compliance	Compliance requirement type	Value
Mean amount	optional	optional	
Uncertainty	optional	optional	
distribution			
type			
Relative	optional	optional	
StdDev in %			
Comment	optional	optional	

Aspect of Completeness

	Requirement		
Field name	Compliance	Compliance requirement type	Value
Data cut-off and	recommended	ILCD documentation-compliant	
completeness principles			
Deviation from data	recommended	ILCD documentation-compliant	
cut-off and			
completeness			
principles /			
explanations			

Aspect of Consistency



	Requirement		
Field name	Compliance	Compliance requirement type	Value
Type of data set	recommended	ILCD documentation-compliant	
LCI method principle	recommended	ILCD documentation-compliant	
Deviation from LCI	recommended	ILCD documentation-compliant	
method principle /			
explanations			
LCI method approaches	recommended	ILCD documentation-compliant	
Deviations from LCI	recommended	ILCD documentation-compliant	
method approaches /			
explanations			
Modelling constants	recommended	ILCD documentation-compliant	
Deviation from	recommended	ILCD documentation-compliant	
modelling constants /			
explanations			

Sources of data

	Requirement		
Field name	Compliance	Compliance requirement type	Value
Data source(s)	recommended	ILCD documentation-compliant	
used for this data set			
Data selection	recommended	ILCD documentation-compliant	
and combination			
principles			
Deviation from	recommended	ILCD documentation-compliant	
data selection			
and			
combination			
principles /			
explanations			
Sampling procedure	optional	optional	



Table 23: Relevant process data with documentation of the data sets used, including description of precision, consistency and completeness in accordance with EN 15941

Process	Used data		Aspect of precision
Example	Name of dataset	Data set source	Description
Transport	Transport, freight, lorry >32 metric ton, EURO6 {RER} transport, freight, lorry >32 metric ton, EURO6 Cut-off, S	ecoinvent v3.9.1	
Valid for all life cycle stages			
A1–A3			
A4			
A5			
AS			
B1–B7			
C1			
C2			
СЗ			
C4			
Module D from A5			
Module D from C1-C4			



Bau-EPD 🎎	Owner and Publisher		
Baustoffe mit Transparenz	Bau EPD GmbH	Tel	+43 664 2427429
	Seidengasse 13/3	Mail	office@bau-epd.at
	1070 Wien	Web	www.bau-epd.at
	Österreich		
	Programme Operator		
Bau-EPD 🎎	Bau EPD GmbH		
Dau-er D 🔨 🧑	Seidengasse 13/3	Tel	+43 664 2427429
Baustoffe mit Transparenz	1070 Wien	Mail	office@bau-epd.at
	Österreich	Web	www.bau-epd.at
	Author of the Life Cycle Assessment		
	Name of creator in person	Mail Pe	erson creator
	Name of Institution (if rel.)	Tel	
Logo	Address	Fax	
	Postcode, Location	Mail	
		Web	
	Holder of the declaration		
Logo	Name of creator in person	Tel	
	Name of Institution (if rel.)	Fax	
	Address	Mail	
	Postcode, Location	Web	