

ECO PLATFORM

Verification Guidelines for ECO EPD Programme Operators

(hereafter: Verification Guidelines)

Version 8.0 (December 2024)



Table 1: Version of this document

Version Number	Date	Summary of changes
V 07	20.12.2023	Excluding Audit & Verification Guidelines V6 into separate document
V7.1	20.06.2024	<ul style="list-style-type: none"> • Editorial update incl. new version numbering and update of ECO Platform documents • Clarification: definition “EPD owner vs. holder” • Exclusion of chapter “Independence of verifiers” which is now covered in the QM Guidelines V1.0
V8.0	20.12.2024	<ul style="list-style-type: none"> • Updated in line with LCA Calculation Rules V2.0 • Editorial updates

1	GENERAL REQUIREMENTS FOR EPD VERIFICATION.....	4
1.1	Goal and Scope of ECO Platform EPD verification process	4
1.2	Requirements for verification procedure	4
1.2.1	Principles	4
1.2.2	Requirements	5
2	CORE CHECKLIST FOR VERIFICATION	6
2.1	Verification Checklist for the Life Cycle Assessment and Requirements on the Project Report	7
2.2	Communication between involved parties during the verification process	17
2.3	Verification Checklist and Requirements for the EPD	17
2.4	List of content of the EPD	23

1 GENERAL REQUIREMENTS FOR EPD VERIFICATION

1.1 Goal and Scope of ECO Platform EPD verification process

The goal of the ECO Platform verification process and verification content is to give guidance to the verifiers, in order to secure a common quality level of the EPD and a consistent approach with regard to EN 15804+A2.

The Verification Guidelines refer to ECO EPDs, in accordance with EN 15804+A2.

They focus on:

- Content of the verification
- The chapter on qualification and quality control of the verifier has been moved to the ECO Platform Quality Management Guidelines in its latest version.

NOTE 1 Verification and appointment of verifiers are dealt with in the individual EPD programmes. The ECO Platform will not strive for a common pool of verifiers for the time being; verifiers should be related to specific EPD programmes as this appears to be more practical e.g. for language issues and local market requirements

1.2 Requirements for verification procedure

1.2.1 Principles

Verification of ECO EPD shall ensure that the EPD and project report is in compliance with referenced ECO Platform Standards and declares all required content mentioned in a valid version of the “LCA calculation rules and specifications for EPDs” (see ECO Platform - General Remarks for a list of all referenced ECO Platform Standards documents).

An ECO EPD includes all items stated in the “List of content to declare in an ECO EPD”. An ECO EPD may include additional information, as defined in ISO 14025 and EN 15804+A2, based on national requirements or specific market needs. Additional information shall always be verified if included in the ECO EPD.

The verification shall confirm that the verifier could not find any deviation from the compliance of the EPD with the following:

- EN 15804+A2
- EN 15941
- ISO 14025
- ECO Platform Standards.

It shall also confirm that the information given in the declaration is in line with the LCA underlying the declaration and that the methods used to carry out the LCA are scientifically and technically valid.

1.2.2 Requirements

Verification checklist

The programme operator shall provide a checklist to be used by the verifier for the verification report. This checklist must at least contain all issues mentioned in chapter 2 of this document.

ECO EPD

An EPD carrying the “ECO EPD verified” logo shall be verified through a programme operator that has successfully completed the ECO Platform Audit as established ECO EPD PO. While all content of the above-mentioned ECO Platform content list is required, the format and the design are not prescribed but the programme operator can decide on its own.

Additional information in the EPD

An EPD carrying the “ECO EPD verified” logo may contain more information than just the information required according to EN 15804+A2. Any such additional information should be clearly separated from the EN 15804+A2 indicator results, as shown in the “List of content to declare in an ECO EPD” in chapter 2.4 section 5 and 6. Any additional information shall be information required by the respective PCR or judged as relevant by the programme operator and shall be verified according to ISO 14025 before being included in the ECO EPD.

Control mechanism and arbitration

If stakeholders (verifiers, LCA practitioners, competitors, users of EPD, etc.) have comments, questions or suspect an error in the ECO EPD, this issue should be brought forward to the respective programme operator, not the ECO Platform. For this purpose, the programme operator shall have an arbitration procedure in place to handle disputes and complaints concerning the quality and validity of the EPD (see ECO Platform Quality Management Guidelines V2.0, ch. 5.2).

2 CORE CHECKLIST FOR VERIFICATION

This checklist presents the items that shall be verified as a minimum. It is presented as a ‘tick-box’. The verification report shall provide transparency about discussions and (if applicable) improvements having been made according to the verifier’s comments. The programme operator shall integrate these items into its own verification procedures.

The verifier shall by principle not make any recommendations. He/she shall be impartial and not try to influence the EPD according to his/her opinion.

The core checklist is limited to data presented in EPD. Some EPD programmes offer the possibility to verify LCA tools or EPD tools. For tool verification, the ECO Platform Tool Verification Guidelines are applicable as part of the ECO Platform Standards.

Requirements on Tool Verification are defined in the latest version of the “Tool Verification Guidelines” (formerly known as “Verification Guidelines for automated software systems (tools) for generating and verifying EPDs”) which are part of the referenced ECO Platform Standards.

The verifier shall give a statement about the result of the verification, clarifying at minimum:

- Which EPD is addressed,
- That the work concerned is a verification,
- That the verification has been done by an independent third-party,
- That the EPD and project report was verified according to EN 15804+A2 and ECO Platform Standards
- The PCR and, if relevant, c-PCR, which were applied for the EPD.

Examples:

I hereby confirm that, following detailed examination as independent 3rd party verifier, I have not been able to trace any unjustified deviations, by the Environmental Product Declaration [*declaration number*], issued for [*product name(s)*] by [*company name*] and by its project report from the requirements outlined in the corresponding product category regulations based on EN 15804 (version to be stated).

Name of the relevant PCR Guidance¹

Reference to the use of the ECO Platform checklist

The company-specific data and upstream and downstream data have been examined as regards plausibility and consistency; the manufacturer(s) or group of manufacturers are responsible for its factual integrity.

The project report on the Life Cycle Assessment and the report(s) on features of environmental relevance are filed at [*name of Programme operator*].

Name and signature of
3rd party verifier

Place and date

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¹ NOTE: CEN TC c-PCR documents, if existing, overrule Programme Operator-related PCR documents for the specific product group. ECO Platform Guidelines may define exceptions to standards and c-PCRs in the document “ECO Platform Calculation rules”.

2.1 Verification Checklist for the Life Cycle Assessment and Requirements on the Project Report

This checklist is applicable for EPDs and project reports according to EN 15804+A2.

All items in the checklist below must be checked in the verification. Most items are mandatory to check, some are optional. If the issue is in line with the requirements and accepted by the verifier, the box “checked and approved” is ticked.

The verifier shall report any deviations from the requirements. The dialogue between verifier and LCA practitioner shall be made transparent as well as any improvements made during the verification process. This can be done separately from the checklist (an example is provided below the checklist).

1	General information	Mandatory/optional	Reference	Checked and approved
1.1	Commissioner of LCA study, LCA practitioner	M	EN 15804+A2, ch.8.2	
1.2	Date of issue of LCA report	M	EN 15804+A2, ch.8.2	
1.3	Statement that the Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804+A2 and applicable PCR (date and version) and JRC characterisation factors (version)	M	EN 15804+A2, ch.8.1+8.2 Applicable PCR, Joint Research Center: https://eplca.jrc.ec.europa.eu/LCDN/EN15804.xhtml	
1.4	Statement of the version of EN 15804+A2 used for the study and EPD	M	EN 15804+A2, ch.8.2	
1.5	Any other independent verification of the data given in the LCI/LCA documentation?	O		
2	Study goal	Mandatory/optional	Reference	Checked and approved
2.1	Reasons for performing the Life Cycle Assessment	M	EN 15804+A2, ch.8.2	
2.2	Intended application – (e.g. for EPD, databases, publication etc.)	M	EN 15804+A2, ch.8.2	
2.3	Target group (B2B, B2C)	M	EN 15804+A2, ch.8.2	
3	Functional unit / Declared unit	Mandatory/optional	Reference	Checked and approved
3.1	Functional / Declared unit, including relevant technical specification as required in ECO Platform LCA Calculation Rules	M	EN 15804+A2, ch. 6.3.1-6.3.3; Applicable c-PCR; LCA Calculation Rules V2.0, ch. 2.1	
3.2	Indication of a factor for the conversion into kg, if applicable	M	EN 15804+A2, ch.6.3.2.1 + ch.6.3.3	
3.3	If product groups (similar products from one manufacturer and/or from different production plants) are declared: a. Description of the type of the EPD (e.g., average, representative product or worst-case product). b. Rules for the calculation of the declared results and content. c. Representativeness of the declared results and content.	M	EN 15804+A2, ch.8.2	
4	Product description	Mandatory/optional	Reference	Checked and approved
4.1	Composition of the product	M	ISO 14025; LCA Calculation Rules V2.0, ch. 2.2	
4.2	Description of technical and functional characteristics and area of intended application in the building. In case of EPD of product group: at minimum qualitative description of the products included and qualitative description of ranges of functions.	M	Applicable European product standard or c-PCR	

4.3	Flow diagram of the product system, divided into the life-cycle stages, showing the main processes included and the system boundary of the LCA. The stages may be further divided into modules.	M	EN 15804+A2, ch.7.2.1	
5 +A2	System boundaries in accordance with the modular design of the EN 15804+A2	M	Reference	Checked and approved
5.1	Description of Life Cycle stages/modules declared. Omissions of the life cycle stages declared. Visualization of system boundaries. Level of detail: see LCA calculation rules and specifications for EPDs	M	EN 15804+A2, ch. 5.2 (incl. Figure 1)	
5.2	Comprehensive declaration of modules A1-A3, C and D as a minimum requirement, unless conditions for excluding C and D in EN 15804+A2 ch. 5.2 are met. If necessary, A1-A3 can be reported. separately or as an aggregated module. Recommendation: A1-A3 must, if declared separately, also be reported in an aggregated column to facilitate comparison	M	EN 15804+A2, ch. 6.3.5; EN 15804+A2, ch. 5.2; LCA Calculation Rules V2.0, ch. 2.3	
5.3	A1 to A3: System boundary <ul style="list-style-type: none"> • Clear description of what the modules cover; • System boundary to nature (e.g. in the case of forests between nature and technosphere); • Use of secondary materials and secondary fuels and waste produced (check end-of-waste state); • Fulfilment of requirements regarding offsetting 	M	EN 15804+A2, ch. 6.3.5.2; applicable c-PCR	
5.4	A4 to A5 optional module, thus if covered: Clear description of system boundaries	M	EN 15804+A2, ch. 6.3.5.3; applicable PCR	
5.5	Accounting impact of losses in the modules in which they arise	M	EN 15804+A2, ch. 6.2.1 and 6.3.5.1 and 6.3.5.3	
5.6	B1 to B7 (optional modules except for products using energy in the use stage, thus if covered): Clear description of system boundaries	M	EN 15804+A2, ch. 6.3.5.4; applicable PCR	
5.7	In addition, for Products using energy in module B6 of the use stage and permanently installed into building or infrastructure (defined by the manufacturer): B6 is mandatory for EPDs of products using energy in the use stage. Any maintenance [B2], repair [B3] and replacement [B4] processes which are required to achieve the stated service life of the products using energy in the use stage and emissions in use [B1] shall also be described as technical scenarios in the EPD.	M	LCA Calculation Rules V2.0, ch. 2.10	
5.8	C1 to C4: Clear description of system boundaries	M	EN 15804+A2, ch. 6.3.5.5; applicable PCR	
5.9	C3 Clear description of the declared scenarios, like: <ul style="list-style-type: none"> • Waste treatment • Materials for recycling • Impacts of recycling processes to achieve end of waste • Justification of the “end-of-waste state” <ol style="list-style-type: none"> Existing purpose Existing market or demand Compliance with technical requirements and legal guidelines Fulfils limit values for Substances of Very High Concern (SVHC) 	M	EN 15804+A2, ch. 6.3.5.5 + table 8 + ch. 7.2.4.4 + annex B.1; applicable PCR	
5.10	C4: Is the complete waste disposal process included in this module? Is its inclusion described transparently and is it plausible? Carefully check the correct allocation for deposition of biogenic material.	M	EN 15804+A2, ch. 6.3.5.5 and ch. 6.3.5.6; LCA Calculation Rules V2.0, ch. 2.3	

5.11	D: System boundary and loads and benefits of all relevant modules shall be clearly described and justified Assumptions with regard to substituted processes in D incl. year of reference (e.g. assumptions with regard to substitution of energy production).	M	EN 15804+A2, ch. 6.3.5.6	
5.12	D: Check if the net flow calculation is done correctly taking into consideration relevant factors, e.g.: <ul style="list-style-type: none"> • Processing losses over the whole life cycle (including collection and pre-processing); • Inputs in Modules A1 to A3 (and A4 to B5 if necessary); • The reaching of end-of-waste-state by all waste flows considered in module D. 	M	EN 15804+A2, ch. 6.3.5.6 and 6.4.3.3	
5.13	D: No benefits or loads of allocated co-products	M	EN 15804+A2, ch. 6.3.6.5 and ch.6.4.3.3	
6	Power mix	Mandatory/optional	Reference	Checked and approved
Info	Terms & Definitions Definitions for the terms “market-based approach”, “location-based approach”, “Contractual Instrument”, “reliable and transparent book and claim registry”, “Guarantee of Origin (GO)”, “Consumption Mix” and “Residual Mix” are provided in EN 15941, ISO 14067 and/or the LCA Calculation Rules ch. 2.5.		EN 15941; ISO 14067; LCA Calculation Rules V2.0, ch. 2.5.	n/a
6.1	Do the main LCA results in the EPD follow the EPD programme’s the choice of the market-based approach (contractual instruments allowed) or Location-based approach [contractual instruments not allowed] for electricity?	M	LCA Calculation Rules V2.0, ch. 2.5; EN 15941; applicable PCR	
6.2	Electricity rules if the market-based approach is used for either the main results or for an additional set of results (rules in addition to ISO 14067 and EN 15941)			
6.2.1	If Contractual instruments (e.g. GO) have been used: Is there a registry for the Contractual instrument and is the registry a “reliable and transparent book and claim registry”? Validity period of the certificates for contractual instruments (date of purchase must relate to period of production and primary data collection on site) in accordance with the PCR? If these requirements have not been met for contractual instruments, has the residual mix been used?	M	Applicable PCR; LCA Calculation Rules V2.0, ch. 2.5	
6.2.2	For an entity producing more than one product, electricity with contractual instruments shall not be virtually allocated to specific products unless a separate energy supply and contract is in place.	M	LCA Calculation Rules V2.0, ch. 2.5	
6.2.3	Foreground data in the control of the manufacturer Case 1: Manufacturer produces energy on site or is directly linked to plants nearby: Check on electricity amounts from accounts. Check if any contractual instruments have been generated and supplied into the market for the electricity used on site. If yes, then has residual mix been used?	M	ISO 14067; EN 15941; LCA Calculation Rules V2.0, ch. 2.5, table 2	

	<p>In case of any export, contractual instruments can only cover the exported electricity Has the generated mix been modelled correctly?</p> <p>Note 1: Attention: LCA-models for CO₂ figures (or other indicators in the contractual instrument documentation and/or on energy bills may be different from LCA models needed to fulfil EN 15804+A2/ISO 21930 and construction related PCRs/this guidance paper on hand. The figures cannot replace each other.</p> <p>Case 2: Electricity provider chosen from national state with legislation for electricity labelling*, e.g. Austria: Energy mix is found in detail on contracts/bills, registry for proof of origin existing, no residual mix necessary, everything is marked. Check on documentation as required in ECO Platform LCA calculation rules and specifications for EPDs Has the provider energy mix been used?</p> <p>Case 3: Electricity provider chosen from national state with a “reliable and transparent book and claim registry” [e.g. covered by AIB registry in EU] If compliant contractual instruments (see 6.2.2) have been provided, has the supplier mix been used? If no compliant contractual instruments have been provided, has grid electricity been modelled with the residual mix using the published mix if provided [case 3a)], or calculated correctly based on the calculation rules ch. 2.5 if not published [case 3b)]?</p> <p>Case 4a: EU/EAA national states (or federal states) with no registry – all EU/EAA states are covered by the AIB registry, see Case 3a).</p> <p>Case 4b: Energy provider from national states (or federal states) with no registry (outside EU and EEA). Check the ECO Platform List to ensure that no registry exists for the state or region. Only if there have been no compliant Contractual Instruments and registry can consumption mix be used, otherwise consider as per the ECO Platform list (case 2/3a/3b/4c as appropriate).</p> <p>Case 4c: Energy provider from national state with one or more registry but no “single reliable and transparent book and claim registry”, outside EU, e.g. Turkey, US. If valid contractual instruments been provided, has the contractual mix been modelled? If not, has grid electricity been modelled on the residual mix, calculated according to the calculation rules?</p>			
6.2.4	<p>Background data: have the recommendations of Table 3 in the LCA Calculation rules been applied?</p> <p>Has justification been provided if they have not been followed?</p>	O	LCA Calculation Rules V2.0, ch. 2.5	
6.2.5	<p>If location-based modelling is used for the main results or is used to provide results as additional information, have the requirements from LCA Calculation Rules 2.5.1 and Table 2 been implemented?</p> <p>Has the national consumption mix been used (except for Australia, Brazil, Canada, China, India, and USA sub-national consumption mix shall be used)?</p>	M	<p>Applicable PCR</p> <p>LCA Calculation Rules V2.0, ch. 2.5.1, Table 2</p>	

6.2.6	<p>Reporting and communication done as required in EN 15941:2024 and the LCA Calculation Rules. The report clearly states which approach [market-based or location-based] has been used for electricity for any modelling and results.</p> <p>The required documentation is provided, and meets the requirements of the Calculation Rules, for:</p> <ul style="list-style-type: none"> - Any on-site generated electricity - Any directly connected electricity - Any electricity supplied for Case 2 - Any use of contractual instruments - The calculation of the residual mix <p>The modelling of electricity [datasets used, reference year, GWP/kWh] in the foreground system has been described and meets the requirements of the calculation rules.</p>	M	EN 15941; LCA Calculation Rules V2.0, ch. 2.5	
6.3	Biogas	M	EN 15941, Annex E2.3	
6.3.1	<p>If a PO allows the calculation of Biogas (the market-based approach):</p> <p>Are the LCA Calculation rules for any on-site generated biogas or directly connected biogas met?</p> <p>Is the supplier able to guarantee that any contractual instrument meets the requirements for tracking and traceability, see EN 15941 E.2.1.</p> <p>For gas purchased without contractual instruments, has the residual mix been applied?</p>	M	EN 15941, Annex E2.1 and E2.33; LCA Calculation Rules V2.0, ch. 2.5.2	
6.3.2	<p>If a PO does not allow the calculation of Biogas (the location-based approach):</p> <p>Has the consumption mix been used for gas from the gas network, and any biogas from a directly connected supplier and/or internally generated biogas been modelled based on the supplied gas?</p>	M	LCA Calculation Rules V2.0, ch. 2.5.2	
6.3.3	<p>Additional information for transparency given as stated in the ECO Platform LCA Calculation Rules</p> <p>The report clearly states which approach [market-based or location-based] has been used for biogas for any modelling and results.</p> <p>The required documentation is provided, and meets the requirements of the Calculation Rules, for:</p> <ul style="list-style-type: none"> - Any on-site generated biogas - Any directly connected biogas - Any use of contractual instruments - The calculation of the residual mix <p>If gas accounts for more than 30 % of the total energy use in stage A1-A3, provide in the Project Report, the GWP-total of the applied gas mix in kg CO2e/MJ, e.g. of any gas purchased with contractual instruments or biogas used in the foreground manufacturing processes, and any other processes which the manufacturer has direct control over</p>	M	LCA Calculation Rules V2.0, ch. 2.5.2; EN 15941, Annex E 2.8.1	

7	Criteria for excluding inputs and outputs	Mandatory/ optional	Reference	Checked and approved
7.1	Selection of the cut-off criteria, description of application of the criteria and assumptions in line with standard and PCR? (Note: A complete mass balance is normally not possible without high effort. This is why cut-off decisions are often based on assumptions about the effect of the flow that has been cut off).	M	EN 15804+A2, ch. 6.3.6 and ch. 8.2; applicable PCR	
7.2	List of excluded processes declared?	M	EN 15804+A2, ch. 8.2	
8	Data collection, electing background data	Mandatory/ optional	Reference	Checked and approved
8.1	Selection and use of background data (specific and/or generic) justified and validity demonstrated?	M	EN 15804+A2, ch. 6.3.7; EN 15941; applicable PCR	
8.2	Data collection, including data quality issues, according to LCA rules: <ul style="list-style-type: none"> • Assessment period for each module considered in the Life Cycle Assessment (e. g. one year average, etc.) • Appropriateness of background data (temporal, geographical, technological) • Other assumptions concerning background data, e.g. about data gaps • Assumptions regarding energy and electricity production incl. year of reference. It should also be transparent which electricity/energy model is applied as avoided product if energy recovery is included in the optional Module D. • Assumptions concerning other relevant background data where relevant for the system boundary 	M	ISO 14044:2006, section 4.3.2; ISO 14040 section 5 (and 6); EN 15804+A2, ch. 6.3.7 + ch. 6.3.8; EN 15941, ch. 7.3.2	
9	Validity of data	Mandatory/ optional		Checked and approved
9.1	<ul style="list-style-type: none"> • Represent a reference year within 10 years for generic data • Represent a reference year within 5 years for specific data • Specific data based on 1 year average, unless an exception is justified • Time period of 100 years over which inputs and outputs from the product system shall be accounted for. In case of landfill scenario: longer, if relevant • Technical coverage of data complies with physical reality • Integrity of generic data records, system boundary and cut-off criteria for generic data records validity demonstrated 	M	EN 15804+A2, ch. 6.3.8; EN 15941; applicable PCR	

9.2	<p>Documentation on background data (specific and/or generic):</p> <ul style="list-style-type: none"> • name of the data record, • its source (database, bibliographic source, etc.), • year of data collection and its representativeness <p>Handling missing data Assessing data quality (time, geographical and technological representativeness). Documentation of data quality for all datasets with a major contribution, together contributing to at least 80% of the results of the core environmental impact indicators.</p> <p>Check on plausibility, comparison of indicators with others from datasets verified EN 15804+A2 and applicable c-PCR or comparison of flows and/or indicators of other significant sources of information.</p>	M	EN 15941 ; applicable PCR ; EN 15804+A2, Annex E	
10	Development of scenarios at product level in modules A4-A5-B-C-D	Mandatory/optional	Reference	Checked and approved
10.1	Statement that the scenarios included are currently in use and are representative for one of the most likely scenario alternatives.. Declaration of additional representative scenarios for the relevant region(s) is permissible.	M	EN 15804+A2, ch. 6.3.9 ; applicable PCR	
10.2	Documentation of the relevant technical information, e.g. recycling or reuse rates, with references?	M	EN 15804+A2 table 8	
10.3	Default values in CEN TC c-PCR shall be checked on applicability for the product. Deviations from these values must be justified.	M	Applicable c-PCR	
11	Allocations	Mandatory/optional	Reference	Checked and approved
11.1	General allocation principles applied (avoidance of allocation, no double counting (unless due to a conservative assumption) or omissions, uniform application of the allocation rules, sum of inputs and outputs of a unit process after allocation must be equivalent to sum of inputs and outputs before allocation etc.)	M	ISO14044:2006 4.3.4	
11.2	Presentation and justification of allocations in the use of secondary materials or secondary fuels as raw materials	M	EN 15804+A2, ch. 6.4.3 + 8.2; applicable PCR	
11.3	Presentation and justification of allocations in the plant (allocation between different products/production lines in a plant)	M	EN 15804+A2, ch. 6.4.3 + 8.2; applicable PCR	
11.4	If applicable: Presentation and justification of allocation of multi-input processes (e.g. landfilling or incineration)	M	applicable PCR	
11.5	Allocation of co-products: <ul style="list-style-type: none"> • Selection of the allocation factors for co-product allocation and justification of allocation method; • Justification of allocation method (e.g. if data are not available to allocate according to the EN 15804+A2 rules); • Presentation of the energy and material flows in case of deviating allocation method; • No declaration of loads and benefits in Module D of flows undergone co-product allocation. 	M	EN 15804+A2, ch. 6.4.3.2; applicable PCR	
11.5.1	Economic allocation for processes producing co-products used in cement and concrete, e.g. blast furnace	M	EN 15804+A2; EN 16908; ECO Platform decision	

	<p>slag, crystallised basic oxygen furnace slag, fly ash, artificial gypsum, silica fume, aluminium-oxide-containing co-products</p> <ul style="list-style-type: none"> • Economic allocation has been used to assign impact to these low value co-products. • Even where the co-product's contribution to the overall revenue of the co-production process is less than 1%, economic allocation has been used to assess the impact, even if small, for low value co-products. • When assessing steel, coal-fired electricity, and other processes producing these co-products, physical partitioning and other forms of allocation have not been used to assign impact to low value co-products. 			
11.6	Documentation of allocation factors used and their (independent) sources	M		
11.7	<p>Allocation process for reuse, recycling and recovery, check specifically:</p> <ul style="list-style-type: none"> • End-of-waste state, Consistency with other scenarios of waste management • technology representativeness for the region / country • Specification and justification of end-of-waste state where applicable • If applicable (module D): Selecting substituted processes in accordance with the PCR or (if no PCR is available) representative actual processes <p>NOTE: Application of the “polluter pays” principle to the use of waste as substitute for primary fuels or materials is left to the programme operator.</p> <ul style="list-style-type: none"> • If applicable (substitution in Module D): Calculation of net flows • Conservative approach, i.e. choice of those scenarios and calculation rules that reflect the highest environmental impacts in comparison to other choices 	M	EN 15804+A2, ch.6.4.3.3; applicable PCR	
11.8	<p>Justification if generic data is applied which does not comply with the allocation principles, or where this compliance is not known and there are reasons to doubt it. Expert guess of how this influences the indicator results should be provided.</p> <p>If the allocation principles are not followed, or it is unknown whether or not they are followed, conservative assumptions should be done, for example by modifying the generic data.</p>	M	Applicable PCR	
11.9	<p>If applicable: transparent documentation of the calculations of biogenic carbon content of product and packaging in CO₂-eq. The conversion factor shall be stated</p>	M	EN 15804+A2, ch.7.2.5 (table 9)	
11.10	<p>If packaging contains biogenic carbon, has this been balanced out in A1-A3 if A5 is not reported? If balanced out in A5, have other relevant impacts for A5 been reported?</p>	M	LCA Calculation Rules V2.0, ch. 2.11	
12	Life cycle modelling information	Mandatory/optional	Reference	Checked and approved
12.1	Transparent presentation of LCA modelling (for example by tables, screenshots from LCA software programmes etc.)	M	EN 15804+A2, ch.8.4	

12.2	Clear description how specific (company) data are used. Is the assignment of company data to the datasets provided by the LCA software, described transparently and is it plausible?	M	EN 15804+A2, ch.8.4	
12.3	Assignment of process data to the LC modules plausible?	M	EN 15804+A2, ch.8.4	
12.4	For several locations/products: Presentation of modelling of all manufacturing sites (name and address to at least the country and city level: this applies for manufacturers and organisations providing products for sale/resellers) and products as well as any weighting thereof	M	EN 15804+A2, ch 7.1 a); LCA Calculation Rules V2.0, ch. 2.12	
12.5	Plausibility and consistency of data (mass balance, energy balance) This can only be fulfilled with random checks if the effort for a verification shall be reasonable, e. g.: <ul style="list-style-type: none"> • Check on equations and total sums: Mass balance of inputs and outputs, e.g. mass balance of (renewable and non-renewable) material resource (feedstock) inputs and outputs (products/waste/emissions/secondary materials) • CO and CO2 emissions coherent with the mass input of fossil energetic resources • Are the energy indicators coherent with the energy resources used? 	M	EN 15804+A2, ch.8.4	
12.6	BMB (biomass balance) and/or recycled content allocation (attribution) approaches like “mass balance credit method” and/or “book and claim” methods as per ISO 22095 <u>has not been used</u> . Biogas used for energy purposes is exempt from this rule, if allowed by the PO, see 6.1.		LCA Calculation Rules V2.0, ch. 2.4 based on ECO Platform position paper from January 2023	
13	Indicators of the Life Cycle Inventory (LCI) and Life Cycle Impact Assessment (LCIA)	Mandatory / optional	Reference	Checked and approved
13.1	Presentation of the parameters in tabular form for all modules A1 to D.	M	EN 15804+A2, ch. 7.2.2	
13.2	Presentation of the indicators describing: EN 15804+A2: <ul style="list-style-type: none"> • Core environmental impacts (13 indicators), • Additional environmental impacts (6 indicators) and coherent disclaimers. Table 4 shall be included in the EPD for the declared additional environmental indicators. If additional indicators are not declared, they shall be mentioned in the EPD, e.g. as an entry of "ND" to Table 4 or as text. • the use of resources (10 indicators), • the waste categories (3 indicators) • output material flows (4 indicators) And other environmental performance indicators required by the PCR. Note: The sum of GWP fossil + GWP biogenic + GWP Land use and land use change shall be equivalent to GWP Total	M	EN 15804+A2, ch. 6.5, 7.2.3 – 7.2.5, Table 4; applicable PCR	
13.3	Has the packaging been included in the declaration of the LCI related indicators, e.g. in the quantification of the content of primary energy?	M	EN 15804+A2, ch.6.3.5.2 + ch. 7.2.5 (Table 9), also some other chapters regarding modules B and C	
13.4	Selection of correct characterisation factors and elimination of long-term emissions (> 100 years)	M	LCA Calculation Rules V2.0, ch. 2.9; EN 15804+A2, ch.8.2 and Annex C;	

	Has the latest version of characterisation factors released by JRC been used taking account of the period of transition? Version of CF Factors to be stated to facilitate comparison		applicable PCR Note: some CEN TC product c-PCR documents contain additional and/or more appropriate CF Factors missing in the JRC tables.	
13.5	Justification of indicators and characterisation methods applied in case they are not among the mandatory indicators/methods of the EN 15804+A2 and applicable PCR	M		
13.6	Information on the environmental impacts in the project report: <ul style="list-style-type: none"> • Reference to characterisation models and factors • Statement that the estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks 	M	EN 15804+A2, ch.8.2	
14	Interpretation	Mandatory/optional	Reference	Checked and approved
14.1	Interpretation of the results based on a dominance/contribution analysis of elected indicators?	O		
14.2	Is the relationship between the results of the LCI and the results of the LCIA plausible? Examples: <ul style="list-style-type: none"> • Relationships are checked, e.g. wood-mass balance, input-material, compare with order of scale/order of magnitude. • Insight into the model is important, where does the link between life cycle inventory and impact happen in the model. The link happens in the software... • Check orders of scale/magnitude, especially for indicators that are changed manually. • Currently, the following results shall be the same: Coherence of primary energy (n.e.) with ADPF values. • Check allocations, consistency with physical flows 	M	EN 15804+A2, ch.8.2	
14.3	Assumptions and restrictions as regard the interpretation of results in the EPD, in terms of both methods and data	M	EN 15804+A2, ch.8.2	
14.4	In the case where an EPD is for a product group a statement to that effect shall be included in the declaration together with a description of the range/variability of the LCIA results if significant; The description of the range can be qualitative or quantitative	M	EN 15804+A2, ch. 7.1 + 8.2; EN 15941, ch. 7.3.2	
14.5	Interpretation of the influence of data quality. An assessment of data quality should be provided if the data quality differs for significant data.	O	EN 15804+A2, ch. 6.3.8 + 8.2 + Annex E; ISO 14040 and EN15941	
14.6	Comprehensive transparency as regards value decisions, justifications and expert judgements, i.e. transparency to avoid misinterpretation.	M	EN 15804+A2, ch.8.2	
15	Additional information	Mandatory/optional	Reference	Checked and approved
15.1	If additional information is given, check the documentation: <ul style="list-style-type: none"> • Laboratory results/measurements listed in the content declaration • Laboratory results/measurements listed in the functional/technical performance • Documentation on the declared technical information on individual life cycle stages not taken into consideration in the construction product's LCA (but 	O	EN 15804+A2, ch.8.3 ; applicable PCR	

	applicable building assessment (e.g. transport routes, energy consumption during the use stage, cleaning cycles etc.) <ul style="list-style-type: none"> • Laboratory results/measurements pertaining to the declared emissions in indoor air, oil or water during the use stage • All declared information is in line with requirements in the PCR 			
15.2	Where relevant: ensure that information additional to EN 15804+A2 is either verified or has been verified/certified by others e.g. by reference to standards or other publicly accepted test requirements.	M	LCA Calculation Rules, V2.0, ch. 2.13	
16	Lifespan and reference service life (RSL)	Mandatory/optional	Reference	Checked and approved
16.1	The RSL shall be declared, if applicable (i.e., if defined as part of the functional unit). The lifespan of the product shall be declared, if applicable (e.g., if module B is declared). The lifespan may or may not be identical to the RSL Note: . The lifespan shall be representative for the declared product and the calculation of the lifespan shall be documented and, if relevant, follow the PCR.	M	EN 15804+A2, ch. 6.3.4 and normative Annex A	

2.2 Communication between involved parties during the verification process

The verifier shall report any deviations from the requirements in the verification report. The dialogue between verifier and LCA practitioner shall be made transparent. This can be done in or separately from the checklist. The format to do so is free to choose. Examples are given below:

Example:

Verification issue number	Description of non-conformity / comment	Response

Example (partly based on XP TS 14071)

Comment N°	Chapter Article Paragraph	Alinea Table	Type of comment (Ed, Te, Ge)	Ref. to an Eco check list (or programme rules) section	Verifier comment and recommendation	Manufacturer / LCA practitioner answer	Final verifier statement

2.3 Verification Checklist and Requirements for the EPD

It is mandatory to verify all the items in this section.

ECO Platform has developed a “best practice example” for the EPD format. This document does not show or require a common design; it merely describes the agreed content of an ECO EPD. In addition to the EPD content requirements of EN 15804+A2 ch.7 and EN 15942, the mandatory ECO Platform content includes:

- A statement of the applied background database and software, and both its versions

- A statement that the applied allocation method for post-consumer waste is cut-off
- A statement which version of Characterisation factors was used, ensuring the latest version has been used.
- Energy mix (consumption mix or market-based approach)
- A description of representativity in average EPD (EN 15941, ch. 3.1 and 3.2),
- A table for declaring biogenic carbon as per EN 15804+A2 and ECO Platform LCA Calculation Rules
- A place for additional impact or LCI indicators,
- A place for additional environmental information dependent on the applicable PCR

1	Requirements	Reference	Checked and approved
1.1	<p>EPD include as general information: On the frontpage / titlepage / cover page:</p> <ul style="list-style-type: none"> • Text “Environmental Product Declaration in accordance with ISO 14025 and EN 15804+A2”, prominently visible in the EPD • Name of declared product • Programme Operator (Name) • Name and address of manufacturer/association • Date of issue + validity (5 years)/date of expiry + date of update if relevant • EPD identification (registration number of the EPD on programme operator level). • Logo of ECO Platform <p>In other chapters of the EPD:</p> <ul style="list-style-type: none"> • Programme Operator / publisher, and name, address, logo, website as relevant • Name of declared product • Electricity mix (market-based approach or location-based approach used for main results as per the PCR) • Statement that “EPD of construction products may not be comparable if they do not comply with EN 15804+A2” • Geographical area, i.e. market range, where the product is produced, where it may be applied and where the end-of-life is assumed • For EPDs of product group: a statement that the EPD covers a product group and a description of the type of such EPD (e.g., average, representative product or worst-case product); • Names of manufacturer(s) when the EPD declares an average of several manufacturers. • A statement of the applied background database(s) and software, and both its versions • A statement, if ecoinvent is used, of the LCA-method Cut-off by classification or Cut-off, EN 15804+A2 • A statement which version of Characterisation factors was used 	<p>EN 15804+A2 ch. 7.1</p> <p>List of content to declare in an ECO EPD (see above and chapter 2.4 of this document on hand)</p>	
1.2	<p>PCR name PCR version (MM YYYY) If applicable: c-PCR (complementary PCR from product TC)</p>	<p>Applicable PCR from European product TCs and or PCR from PO</p>	
1.3	<p>Demonstration of verification: external independent verification, name of third-party verifier</p>	<p>EN 15804+A2, ch.7.1 Table 2</p>	
1.4	<p>Information on the validity: Does it corresponds with the specifications in the project report?</p>		
1.5	<p>Appropriateness of logos of the company, programme operator and ECO Platform. Appropriateness of pictures.</p>	<p>List of content to declare in an ECO EPD (chapter 2.4 of this document on hand)</p>	

1.6	<p>Products using energy in module B6 of the use stage and permanently installed into building or infrastructure (defined by the manufacturer):: Statement that this EPD follows additional requirements for such products.</p>	<p>M LCA Calculation Rules V2.0, ch. 2.10</p>	
2	Product	Reference	Checked and approved
2.1	<p>The product description is in line with the project report, and clearly enough described to identify the declared product unambiguously. Name and location of production site(s).</p>	<p>List of content to declare in an ECO EPD (chapter 2.4 of this document on hand)</p>	
2.2	<p>If applicable: Explanations on calculations of averages within a product group, and representativeness: Information on restrictions to the use of the EPD; Required information in the EPD for the representativity and data quality of the average and collective EPD according to EN 15941: A technical description of the average product group (such as density or a property like U-value); The number of manufacturing plants included in the EPD; and/ or The names of manufacturing companies or brands or associations; Sampling process if only representative companies/sites are chosen; Geographical coverage;</p> <p>The range of products for which the EPD is relevant, even if data from some products has not been used directly in producing the EPD</p> <p>For collective EPD (commonly called “sector EPD) the following are additionally required:</p> <ul style="list-style-type: none"> • The number of products and/or sites included in the EPD <p>Recommendation: description of the relative production volume covered by the EPD.</p>	<p>EN 15804+A2, ch.7.1; EN 15941, ch. 7.3.3</p> <p>List of content to declare in an ECO EPD (chapter 2.4 of this document on hand)</p>	
2.3	<p>Specification / identification (picture, name, model) Unambiguous identification of the product(s), by standards, concessions or other means</p>	<p>EN 15804+A2, ch.7.1; List of content to declare in an ECO EPD (chapter 2.4 of this document on hand)</p>	
2.4	<p>Indication of the intended use Application and technical functions of the product</p>	<p>EN 15804+A2, ch.7.1; List of content to declare in an ECO EPD (chapter 2.4 of this document on hand)</p>	
2.5	<p>Relevant technical data (additional information is possible) including RSL if applicable (Average values or range in case of product groups)</p>	<p>Applicable PCR</p>	
2.6	<p>The test standards to which the technical data refers</p>		
2.7	<p>A description of the main product components and or materials is provided in accordance with the specifications of the PCR (if available) and LCA project report. As a minimum substance that are listed in the latest “Candidate List of Substances of Very High Concern for authorisation” if their content exceeds the limits for registration</p>	<p>EN 15804+A2, ch.7.1; applicable PCR</p>	
2.8	<p>Description of the manufacturing processes / all processes if several locations are involved</p>	<p>EN 15804+A2, ch.7.1; applicable PCR</p>	
3	LCA rules	Reference	Checked and approved
3.1	<p>Information on the declared / functional unit corresponds with the specifications of the PCR (if available) and project report?</p>	<p>Applicable PCR</p>	

3.2	<p>Indication of the EPD type and declared/undeclared modules through a table of modules (ND=Module not declared)</p> <p>EPD types applicable in EN 15804+A2:</p> <ul style="list-style-type: none"> • cradle-to-gate with modules C1-C4 and module D • cradle-to-gate with options, modules C1-C4 and module D • cradle-to-grave and module D • cradle-to-gate (exemption requirements apply) • cradle-to-gate with options (exemption requirements apply) 	EN 15804+A2, ch. 7.2.2	
3.3	EPD contains a (simple) flow diagram in accordance with the modular approach	ISO 14044, ch. 4.3.2.2	
3.4	Description of the system boundary (can be simplified, as a picture or in wording), including the assignment of the analysed processes to the life cycle modules	List of content to declare in an ECO EPD (chapter 2.4 of this document on hand), best follow ISO 14044, ch. 4.3.2.2	
3.5	Indication of the key assumptions and estimates for interpretation which are not depicted elsewhere in the EPD		
3.6	Presentation of the application of cut-off criteria in accordance with the project report		
3.7	Source of background data used, name and dated version. Description of what upstream and/or downstream data has been applied is optional.	List of content to declare in an ECO EPD (chapter 2.4 of this document on hand)	
3.8	Indication of the age of background data used (e.g. last update or version of the database)	List of content to declare in an ECO EPD (chapter 2.4 of this document on hand)	
3.9	Information on the data collection period and resulting averages		
3.10	Presentation of the allocations of relevance for calculation in accordance with the minimum requirements of the PCR.		
3.11	BMB (biomass balance) and/or recycled content allocation (attribution) approaches like “Mass balance credit method” and/or “Book and Claim” methods as per ISO 22095 <u>cannot be used in connection with ECO EPDs.</u>	LCA Calculation Rules V2.0, ch.2.4 based on ECO Platform position paper from January 2023	
4	LCA: Scenarios and additional technical information	Reference	Checked and approved
4.1	Mandatory for all declared modules beyond A3: declaration of the assumptions pertaining to the scenarios of the declared modules in accordance with the project report. Information on undeclared modules is optional.	EN 15804+A2, ch. 7.3	
4.2	If a reference service life (RSL) or lifespan is declared in the EPD, declaration of the scenario on which the RSL is based, in accordance with the project report	EN 15804+A2, ch. 7.3.3.2 + Annex A ; applicable PCR	
5	LCA: Results	Reference	Checked and approved
5.1	Description of the declared / functional unit		

5.2	<p>Identification of the declared/undeclared modules: Table of Modules/indicators, illustrating the type of EPD ND = module not declared Full declaration of all indicators of EN 15804+A2 required according to the modular approach Result Table contains: No blank cells, hyphens, or other symbols. The value 0 only for parameters that have been calculated to be 0, or below a limit value (former MNR/MNA etc). Footnotes shall be used to explain any limitation to the result value.</p> <p>Additional indicators included or marked as Not Declared (“ND”) in table or as text passages, justifications for not declaring indicators as per EN 15804+A2?</p>	<p>List of content to declare in an ECO EPD (chapter 2.4 of this document on hand); EN 15804+A2, ch.7.2.3, 7.2.4, 7.2.5 and ch.7.5</p>	
5.3	Biogenic carbon content (in product and packaging) in kg C	EN 15804+A2, ch. 7.2.5	
5.4	Programme operators may allow optional additional impact indicators and LCI indicators. These shall be identified as “additional” to the indicator basket of EN 15804+A2, either in the EPD itself or in an annex	List of content to declare in an ECO EPD (chapter 2.4 of this document on hand)	
5.5	The declared indicator and other quantitative results shall be identical with the respective values in the project report		
5.6	In case of product averages: description of the range / variability of the LCIA results. This may be qualitative information.	EN 15804+A2, ch.7	
5.7	Deletion of module columns which are not declared (permissible for the Results part)	List of content to declare in an ECO EPD (chapter 2.4 of this document on hand)	
5.8	Formatting the table framework and parameter addressed in accordance with the specifications of the PCR or the programme operator rules		
6	Data quality information in EPD according to EN 15941		
	Data quality information shall be provided in a prominent section of the EPD reporting data quality according to EN 15941. This text shall be in line with the information on data quality reported in the Project Report and shall be a reasonable summary of it.	EN 15804+A2, ch. 6.3.8.3; EN 15941, ch. 7.3.3	
	<p>Any use of relevant data assessed for either time, geography or technology according to 7.1 and EN 15804+A2, 6.3.8.3 to be:</p> <ul style="list-style-type: none"> - poor or very poor data - fair data that has more than 30 % for any core indicator <p>has been noted in the EPD.</p> <p><i>If any specific EPD are used in modelling, this should be mentioned.</i></p>	EN 15941, ch. 7.1 + 7.3.3	
	Any text describing data quality shall use the terminology provided for quality level in EN 15804+A2, Table E.1 and Table E.2 to describe data quality in relation to time, geography and technology (see Annex C for examples).		
	EPD shall not declare any misleading or exaggerated claims with respect to data quality.		
	The EPD specifies which table from EN 15804+A2, Annex E has been used to assess the data quality of relevant data.		
7	Evidence for tests or certificates, depending on requirements in PCR.	Reference	Checked and approved
7.1	Additional information is provided to indoor air or oil/water, if applicable	EN 15804+A2, ch.7.4	

7.2	Other additional environmental information if relevant for a country.	List of content to declare in an ECO EPD (chapter 2.4 of this document on hand)	
7.3	Declaration of the relevant evidence. Information where to find this evidence	EN 15804+A2, ch.7.2; applicable PCR; existing programme rules	
7.4	Approach Power Mix: Reporting done as required in EN 15941. Market-based approach or location-based approach to be specified for any results provided.	EN 15941	
7.5	<p>Additional rules for transparency in the EPD:</p> <ul style="list-style-type: none"> If electricity accounts for more than 30 % of the total energy use in stage A1-A3, provide in the EPD the GWP-total of the electricity in kg CO2e/kWh used in foreground processes and any other processes in the direct control of the manufacturer. Indication of energy modelling, minimum: residual mix, consumption mix and any modelled mix. Any mix of energy carriers should be described. Information if any contractual instruments are used must be declared. <p>Justification if any background data does not follow the recommendations of Table 3 of the LCA Calculation Rules.</p>	<p>ECO Platform LCA Calculation Rules V2.0, ch. 2.5</p> <p>List of content to declare in an ECO EPD (chapter 2.4 of this document on hand), EN 15941</p>	
8	Additional Information in the EPD or Annexes	Reference	Checked and approved
8.1	Where relevant: ensure that information additional to EN 15804+A2 is either verified or has been verified/certified by others e.g. by reference to standards or other publicly accepted test requirements.	LCA Calculation Rules V2.0, ch. 2.13	
8.2	Any additional information in the EPD or annexes meets the requirements of the LCA Calculation Rules V2.0. No use of non-compliant methodological approaches. Additional indicators to EN 15804+A2 calculated using compliant methodology may be provided.	LCA Calculation Rules V2.0, ch. 2.13	
9	References	Reference	Checked and approved
9.1	Full indication of all referenced sources (excluding standards already quoted in full and standards concerning evidence)	List of content to declare in an ECO EPD (chapter 2.4 of this document on hand)	
10	Annex	Reference	Checked and approved
10.1	An Annex may contain all additional information required for specific national use in different countries.	List of content to declare in an ECO EPD (chapter 2.4 of this document on hand)	

2.4 List of content of the EPD

Introduction

This document describes the mandatory content to be declared in an ECO EPD. It also serves as a best practice example for the format of an EPD when published as pdf file or printed document. The intention is to give guidance to emerging programmes with respect to the required content and its arrangement and thus improve the readability of the declaration. The example does not include pictures or graphics, because it is up to the programme operator to develop the design according to the needs of the programme's market.

The example is structured into sections, which should be seen as a recommendation of using one page per section in that order: e.g. section 1 describes the front page, section 2 the first page etc. However, the amount of information in an EPD can vary considerably, e.g. when the performance of several similar products is declared in one document. Therefore, it is not possible to prescribe the number of pages of an EPD. When the EPD becomes longer than 10 pages, it is advisable to number the clauses.

Some established programmes already have rather fixed table formats embedded in other applications, thus making it difficult to change the format. Therefore, the ECO Platform does not require the implementation of a common format. This document does not claim to support digitalisation of EPDs.

Section 1

1. Pictures, Logos:

- Pictures should relate to the product and the subject of environment.
- Logo(s) of the programme operator, publisher (this can be different institutions) and manufacturer
- Logo of the programme operator
- Logo of ECO Platform

2. Compliance statement and identification

The front page of the EPD document shall prominently show the conformity to ISO 14025 and EN 15804+A2. It should also provide all administrative information for understanding which product from which manufacturer is declared, who is the programme operator responsible for the quality of the declaration, how is the EPD identified, for how long is it valid, whether it has been updated and finally whether the EPD conforms to the ECO Platform Standards. Items addressed are:

- Product name;
- Programme operator, publisher (this can, but must not necessarily be the same institutions or persons) and manufacturer;
- Registration number of the EPD on programme operator level
- Relevant dates of the EPD: date of issue, date of expiry, date of update if relevant.

Not necessarily on front page:

- Verification statement according to table 2 in EN 15804+A2

Section 2

3. General information:

- Contact information of manufacturer and programme operator (e.g. name, address, website)
- Regional representativity, such as name and location of production site for specific EPD, for associations this information can be given in an Annex to the EPD
- Unambiguous identification of the product or products, by standards, concessions, product classifications (e.g. CPC) or other means

- Short, transparent description of application, technical functions of the product
- Verification signatures in the table from ISO 14025
- Liability + comparability statement
- Identification of the PCR or c-PCR (= complementary PCR from product TC)
- Orientation where more information can be found

4. *Scope and Type of EPD:*

The result tables and the table of modules shall

- Only contain values or the letters ND (not declared).
- Contain no blank cells, hyphens
- Use ND only for parameters that are not quantified because no data is available.
 - ND can be used for modules that may be relevant on building level but cannot be declared on product level, namely Modules B3 - B5. Footnotes shall be used to explain any limitation to the result value
 - If a module is assessed, then the indicators shall be quantified.
 - If the module is not relevant for a product it should not appear in the result tables. If it does appear in the result table, the parameter results are ND, meaning that they are unknown and not zero. This leaves all options open for a building assessment.
 - Use the value 0 only for parameters that have been calculated to be 0.
 - If no processes can be expected within a declared module, it should be declared with parameter results of value 0, as no mass flows take place. This narrows down the options in a building assessment to a probable scenario. In this case the module should not appear as ND in the table of modules.
- the table of modules illustrating the Type of EPD with respect to the modules considered, e.g. cradle to gate with options. For EPD complying with EN 15804+A2, Modules A1-A3, C1-C4 and D are mandatory (mdt). A4 and A5 as well as all B-Modules are optional (op).
- Note that information modules generating any input or output flows considered in the declaration of module D shall also be declared.
- For services declared in A5, A4 is a necessary module, even though this is not mentioned explicitly in EN 15804+A2
- A statement whether the EPD is specific or some kind of average EPD;
- If product groups (similar products from one manufacturer and/or from different production plants) are formed as averages:
 - a. Description of the type of average
 - b. Calculation rules for the formation of averages
 - c. Representativeness of averages in the EPD
- Applied background database description and version, i.e. applied upstream and downstream generic data (i.e. data beyond the manufacturer's influence);
- Applied LCA software or application, including dated version.
- For EPD following EN 15804+A2 a description of the data quality description is provided in the project report. If the EPD includes a statement about the data quality, it should be in Section 2.
- A statement, if ecoinvent is used, of the LCA-method Cut-off by classification or Cut-off, EN 15804+A2
- A statement which version of PEF Characterisation factors was used
- Electricity mix (consumption mix or marked based approach) and emission factor for GWP-total per kWh for electricity used in the foreground processes and any other processes under the direct control of the manufacturer.

Section 3

5. Detailed product description

- Description of the product
- Description of the production processes preferably visualised, application, technical data, condition of delivery
- Product components, main product content, packaging materials, SVHC. When other substances causing indoor air pollution or radioactivity are dealt with, this information can be declared in clause 10.
- Declared unit/ functional unit Reference service life (RSL)
- Representativeness of the average when an average EPD is declared. Useful information is:

- Description of how the selection of the sites/products has been done and how the average has been determined;
 - Information on the most influencing parameters in the LCA;
 - Information on restrictions to the use of the EPD;
 - Useful information in the EPD for the representativity of average EPD is:
 - A technical description of the average product group (such as density or a property like U-value);
 - The number of manufacturing plants included in the EPD; and/ or
 - The names of manufacturing companies or brands or associations;
 - Sampling process if only representative companies are chosen;
 - Description of the relative production volume covered by the EPD;
 - Geographical coverage, (see clause 5 above);
 - The range of products for which the EPD is relevant, even if data from some products has not been used directly in producing the EPD
- For collective EPD (any average EPD of more than one manufacturer), the following are additionally required:
- The number of products and/or sites included in the EPD;
 - Description of the relative production volume covered by the EPD.

Section 4

6. LCA results – Mandatory impact and LCI indicators for EN 15804+A2

The results of the underlying LCA are provided in this section as environmental impacts, resource use, output flows and additional information on biogenic carbon. All pre-set parameters of EN 15804+A2 are required.

7. LCA results – Optional additional impact indicators

A set of optional additional indicators shall be addressed in a mandatory table (see table 5 in EN 15804+A2) in the EPD if complying with EN 15804+A2. If the manufacturer(s) decides to not declare one or any additional indicator from the list in EN 15804+A2, the boxes for those modules are assigned ND = not declared. Any additional indicator not declared must be identified in the table e.g. as an entry of "ND" to the table or as text.

8. LCA results – optional biogenic carbon tables

The following table is an example how biogenic carbon could be declared for the different modules. In EN 15804+A2 biogenic carbon indicators are mandatory, information for kg C as per Table 9 to be given. The indicators can be expanded according to this list which is adapted from ISO 21930:2017

RESULTS OF THE LCA – BIOGENIC CARBON per functional or declared unit																		
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Removals and emissions associated with biogenic carbon content of the bio-based product	[kg CO ₂]																	
Emissions from calcination and removals from carbonation	[kg CO ₂]																	
Removals and emissions associated with biogenic carbon content of bio-based packaging	[kg CO ₂]																	
Net emissions from combustion process of waste from renewable sources in A1-A3 *	[kg CO ₂ -Eq.]																	
Gross emissions from combustion of waste, primary and secondary fuels from renewable sources in A1-A3 *	[kg CO ₂ -Eq.]																	

* Example: In cases where the end-of-waste state cannot be defined unambiguously like for combustion of secondary fuels or waste in a cement kiln, the net values are calculated as the GWP [kg CO₂-Eq.] for the gross emissions, produced by the total renewable input (e.g. secondary fuel and waste input), minus the GWP of the emissions produced by the waste input from renewable sources.

Section 5

9. Calculation rules:

- Declared or functional unit,
- Assumptions,
- Cut off rules,
- Data quality in compliance with EN 15941, clause 7,
- Allocations.

10. Scenarios and additional technical information

- Clear description of processes included within system boundary A1-A3,
- Clear description of scenarios included within system boundaries for further modules beyond A1-A3 including but not limited to transport distances, losses in installation, use and end-of-life,
- Additional technical information as appropriate.
- For EPD complying with EN 15804+A2: Declaration of biogenic carbon content at the production gate, see EN 15804+A2 Table 9

11. Mandatory additional information on release of dangerous substances to indoor air, oil and water

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

12. Other optional additional environmental information

Other relevant additional environmental information following the requirements of the ECO Platform LCA Calculation Rules V2.0, 2.13.

Section 6

13. References

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

14. Annex

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