

VERIFICATION REPORT FOR EPD OF CONSTRUCTION PRODUCT IN THE INTERNATIONAL EPD® SYSTEM

INTRODUCTION

This document serves as the verification report template of Environmental Product Declarations (EPD) of construction products, aligning with PCR 2019:14 and applicable complementary PCR (c-PCR), in the International EPD® System. For verification report template for EPDs based on the old PCR of construction products in the International EPD® System (PCR 2012:01), see separate document.

This template is mandatory to use for verification of EN 15804-compliant EPDs for construction products in the International EPD® System for both EPD verification and EPD Process Certification. A signed copy of this verification report shall be submitted to the Secretariat as a part of the EPD registration and publication. The verification report shall be available to any person upon request.

This is a living document, which is based on the ECO Platform Audit and Verification Guidelines for ECO EPD Programme Operators Version 3.1 dated November 2019 (modifications have been made for clarity and for updates related to EN 15804:2012+A2:2019). See www.environdec.com for the latest version.

EPD INFORMATION

Registration number of EPD(s):	TBD
Product name(s):	V-Rod Glass Fiber Reinforced Rebars
EPD owner:	Pultrall Incorporated
Product Category Rules (PCR): <i>Registration number, name and version</i> Complementary PCR (c-PCR): <i>Registration number, name and version</i>	EPD International AB, Product Category Rules for Preparing an Environmental Declaration for Construction Products PCR 2019:14 Ver. 1.11, Date: 2021-02-05
If applicable, pre-verified tool: <i>Name and validity date (YYYY-MM-DD)</i>	Click to add text.
EPD valid until: <i>Set by the verifier. Use date format YYYY-MM-DD, e.g. 2024-02-15.</i>	2027-07-04
Additional comments from verifier:	No additional comments

VERIFICATION STATEMENT

I hereby confirm that, following the checks performed, in accordance with the limits of the scope of our appointment, nothing has come to the verifier's attention to suggest any data errors or deviations from the requirements by the above-referenced EPD and its project report, in terms of


- the underlying data collected and used for the LCA calculations,
- the way the LCA-based calculations have been carried out to comply with the calculation rules,
- the presentation of environmental performance included in the EPD, and
- any other information included in the declaration

with respect to the procedural and methodological requirements in ISO 14020:2000, ISO 14025:2006, the General Programme Instructions of the International EPD® System, EN 15804:2012+A2:2019 and the reference PCR.

I confirm that, in accordance with the limits of the scope of our appointment, the company-specific data has been examined as regards plausibility and consistency. The declaration owner is responsible for its factual integrity and that the product does not violate relevant legislation.

I confirm that I have sufficient knowledge and experience of construction products, the construction industry, relevant standards and the geographical area of the EPD to carry out this verification.

I confirm that I have been independent in my role as verifier in accordance with the requirements in General Programme Instructions, i.e. I have not been involved in the execution of the LCA or in the development of the declaration, and have no conflicts of interest regarding this verification.

Name and organization of verifier:	Thomas Gloria, Industrial Ecology Consultants
Date and location:	June 24, 2022, Newton, Massachusetts, USA
Signature: <i>Add as image or print and sign this document</i>	

In case of EPD Process Certification, the signature of EPD process owner may also be added.

VERIFICATION CHECKLIST PART A: CALCULATION RULES FOR THE LIFE CYCLE ASSESSMENT AND REQUIREMENTS ON THE PROJECT REPORT:

The following issues must be checked as a minimum. The check consists of checking if the issue is described in the LCA project report and if it is line with the requirements and guidelines in the applicable reference (EN 15804, other standards or PCR). Most issues are mandatory to check, some can be optional.

Any deviations from the requirements should be reported by the verifier. If the issue is in line with the requirements and/or accepted by the verifier, the box “done” can be ticked. If the LCA is already critically reviewed according to ISO 14044 before the verification, no duplications are necessary.

1	GENERAL INFORMATION	MANDATORY (M) / OPTIONAL (O)	REFERENCE	CHECKED AND APPROVED	N/A
1.1	Commissioner of LCA study, LCA practitioner	M	EN 15804 ch. 8.2	√	<input type="checkbox"/>
1.2	Date of issue of LCA report	M	EN 15804 ch. 8.2	√	<input type="checkbox"/>
1.3	Statement that the Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804 and applicable PCRs	M	EN 15804 ch. 8.2 and applicable PCR	√	<input type="checkbox"/>
1.4	Any other independent verification of the data given in the LCI/LCA documentation?	O		<input type="checkbox"/>	√
2	STUDY GOAL	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
2.1	Reasons for performing the Life Cycle Assessment	M	EN 15804 ch. 8.2	√	<input type="checkbox"/>
2.2	Intended application (e.g. for EPD, databases, publication etc.)	M	EN 15804 ch. 8.2	√	<input type="checkbox"/>
2.3	Target group (B2B, B2C, ...)	M	EN 15804 ch. 8.2	√	<input type="checkbox"/>
3	FUNCTIONAL UNIT / DECLARED UNIT	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
3.1	Functional / Declared unit, including relevant technical specification	M	EN 15804 ch. 6.3.1/6.3.2 and/or applicable PCR or additional specific requirements for certain product groups in applicable c-PCR	√	<input type="checkbox"/>
3.2	Indication of a factor for the conversion into kg	M		√	<input type="checkbox"/>

3.3	<p>If product groups (similar products from one manufacturer and/or from different production plants) are formed as averages:</p> <p>a) Description of the type of average</p> <p>b) Description of how the average has been calculated.</p> <p>c) Does the description of the average represent what is declared in the EPD?</p>	M	EN 15804 ch. 8.2	√	<input type="checkbox"/>
4	PRODUCT DESCRIPTION	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
4.1	<p>Composition of the product.</p> <p>The level of detail: the main components necessary to understand what type of product is concerned (detailed mass description is not necessary if confidential). In case of average EPD: at minimum qualitative description of averages and qualitative description of ranges.</p>	M	ISO 14025	√	<input type="checkbox"/>
4.2	<p>Description of technical and functional characteristics and area of intended application in the building. In case of average EPD: at minimum qualitative description of averages and qualitative description of ranges of functions.</p>	M	Applicable PCR	√	<input type="checkbox"/>
4.3	<p>Flow diagram of main production processes and visualization of system boundaries. Level of detail: see 4.1.</p>	M	ISO 14025	√	<input type="checkbox"/>
5	SYSTEM BOUNDARIES IN ACCORDANCE WITH THE MODULAR DESIGN OF EN 15804	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
5.1	<p>Description of the life-cycle stages/modules declared. Omissions of life-cycle stages declared.</p>	M		√	<input type="checkbox"/>
5.2	<p>Comprehensive declaration of modules A1-A3 (A1-A5 for services) + C + D as a minimum requirement unless the three conditions for type d) and e) described in PCR 2019:14 chapter 2.2.2 are met, then only modules A1-A3 (A1-A5 for services) applies.</p>	M	EN 15804 ch. 5.2 and applicable PCR	√	<input type="checkbox"/>

5.3	A1 to A3: System boundary	M CO ₂ certificates optional	EN 15804 ch. 6.3.5.2 and applicable PCR	√	<input type="checkbox"/>
	a) Description of all processes the modules cover				
	b) System boundary to nature (e.g. between forest and technosphere in wood production)				
	c) Use of secondary materials and secondary fuels and waste produced				
	d) Specification of the “end-of-waste state” for material leaving A1-A3 as waste				
	e) If part of the energy calculation: Reference to the contract/certificate of green electricity				
	f) No offsetting allowed				
5.4	A1 to A3: Allocation of co-products:	M	EN 15804 ch. 6.4.3.2 and annex B.1, and GEN TR 16970 ch. 6.4.3.2 ff	√	<input type="checkbox"/>
	a) Selection of the allocation factors for co-product allocation				
	b) Justification of selected allocation method (economic, physical)				
	c) Justification of specific allocation processes (e.g. if data are not available to allocate according to the EN 15804 rules)				
	d) No declaration of loads and benefits in Module D from allocation in A1-A3				
5.5	A4 to A5 (optional module: mandatory for services): Clear description of all processes the modules cover	M	EN 15804 ch. 6.3.5.3 and applicable PCR	√	<input type="checkbox"/>
5.6	Accounting for losses in the modules in which they arise (e.g. A4, during transport to construction site)	M	EN 15804 ch. 6.3.5.1	√	<input type="checkbox"/>
5.7	B1 to B5 (optional module): Description of all processes the modules cover	M	EN 15804 ch. 6.3.5.4 and applicable PCR	<input type="checkbox"/>	√
5.8	B6 and B7 (optional module): Description of all processes the modules cover	M	EN 15804 ch. 6.3.5.4 and applicable PCR	<input type="checkbox"/>	√
5.9	C1 to C4: Description of all processes the modules cover	M	EN 15804 ch. 6.3.5.5 and applicable PCR	√	<input type="checkbox"/>

5.10	C3: <ul style="list-style-type: none"> Waste treatment Materials for recycling Impacts of recycling processes to achieve end of waste <ul style="list-style-type: none"> Justification of the “end-of-waste state” Existing purpose Existing market or demand Compliance with technical requirements and legal guidelines Fulfills limit values for Substances of Very High Concern (SVHC) 	M	EN 15804 ch. 6.3.5.5, ch. 7.2.4.4 (Table 8) and annex B.1, and applicable PCR	√	<input type="checkbox"/>
5.11	C4: Is the complete waste disposal process included in this module? Is its inclusion described transparently and is it plausible?	M	EN 15804 ch. 6.3.5.5	√	<input type="checkbox"/>
5.12	D : System boundary and contents of module justified Assumptions with regard to substituted processes in D incl. year of reference, e.g. assumptions with regard to substitution of electricity and power production. Assumptions regarding quality of the recovered material are documented and justified.	M	EN 15804 ch. 6.3.5.6	√	<input type="checkbox"/>
5.13	D: No benefits or loads of allocated co-products The calculation of the net flows is documented, described transparently and plausible, particularly regarding: <ul style="list-style-type: none"> amount of input material recovered from a previous system; amount of output material to be recovered in a subsequent system; material losses between the point of end-of-waste and point of substitution. 	M	EN 15804 ch. 6.3.5.6 and ch. 6.4.3.3, and applicable PCR	√	<input type="checkbox"/>
6	POWER MIX (E.G. ELECTRICITY)	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
6.1	Selection of the power mix. Documentation of reference year for the dataset.	M	CEN TR 16970, CEN TR 15941 and applicable PCR	√	<input type="checkbox"/>
6.2	If applicable: Validity (at least for the upcoming year) of the certificates for supplier-specific electricity (e.g. from renewable energy sources) in accordance with the PCR.	M	Applicable PCR	<input type="checkbox"/>	√
7	GREEN ELECTRICITY (MOVED TO 6.2)	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
8	CRITERIA FOR EXCLUDING INPUTS AND OUTPUTS	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
8.1	Selection of the cut-off criteria, description of application of the criteria and assumptions in line with standard and PCR	M	EN 15804 ch. 6.3.6 and ch. 8.2, and applicable PCR	√	<input type="checkbox"/>

8.2	List of excluded processes	M	EN 15804 ch. 8.2	√	<input type="checkbox"/>
9	DATA COLLECTION, SELECTED GENERIC DATA	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
9.1	Selection and use of generic data justified and validity demonstrated	M	EN 15804 ch. 6.3.6, EN 15941 and applicable PCR	√	<input type="checkbox"/>
9.2	Documentation on generic data: Name of the data record and its source (database, literary source, etc.)	M	EN 15941 and applicable PCR	√	<input type="checkbox"/>
9.3	Data collection, including handling of data quality issues, according to LCA rules Assessment period for each module considered in the LCA (e.g. one-year average, etc.) Appropriateness of generic data (temporal, geographical, technological) Declaration of other assumptions concerning generic data, e.g. about data gaps	M	ISO 14044:2006, section 4.3.2, Documentation ISO 14040 and EN 15804 ch. 6.3.7	√	<input type="checkbox"/>
10	VALIDITY OF DATA	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
10.1	Data adheres to the following requirements: a) Age < 10 years for generic data b) Age < 5 years for specific data c) Specific data based on 1-year average (unless deviations are justified). For products not yet on the market, see www.environdec.com for rules and latest information. d) Time period of 100 years, in case of a landfill scenario: longer if relevant e) Complies with physical reality of the product as far as possible, in terms of geographical and technological coverage	M	EN 15804 ch. 6.3.8, EN 15941, applicable PCR and www.environdec.com	√	<input type="checkbox"/>
10.2	Documentation of data quality assessment	M	EN 15804 ch. 6.3.8.3	√	<input type="checkbox"/>
10.3	Manufacturing data should be reproducible, e.g. by available data management systems. Random checks could be carried out or based on importance; some data could be checked in the verification.	O		√	<input type="checkbox"/>
11	DEVELOPMENT OF SCENARIOS AT PRODUCT LEVEL IN MODULES A4-A5-B-C-D	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
11.1	Statement that the scenarios included are currently in use and are representative for one of the most probable alternatives. Additional declaration of representative mixes for the relevant region is permissible.	M	EN 15804 ch. 6.3.9 and applicable PCR	√	<input type="checkbox"/>
11.2	Documentation of the relevant technical information, e.g. recycling or reuse rates, with reference to the literature source	M		√	<input type="checkbox"/>

11.3	Default values in CEN TC c-PCR are preferred. Deviations from these values must be justified	M		<input type="checkbox"/>	√
12	ALLOCATIONS	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
12.1	General allocation principles applied (avoidance of allocation, no double counting / omissions, uniform application of the allocation rules etc.)	M	ISO 14044:2006 ch. 4.3.4	√	<input type="checkbox"/>
12.2	Presentation and justification of allocations in the use of secondary materials or secondary fuels as raw materials	M	EN 15804 ch. 6.4.3 and ch. 8.2, and applicable PCR	√	<input type="checkbox"/>
12.3	Presentation and justification of allocations in the plant (allocation between different products/production lines in a plant)	M		√	<input type="checkbox"/>
12.4	If applicable: Presentation and justification of allocation of multi-input processes (e.g. landfilling or incineration)	M		<input type="checkbox"/>	√
12.5	Co-product allocation correctly applied, see also 5.3	M	EN 15804 ch. 6.4.3.2	<input type="checkbox"/>	√
12.6	Documentation of allocation factors used and their (independent) sources	M		√	<input type="checkbox"/>
12.7	Allocation process for reuse, recycling and recovery, check specifically: a) End-of-waste state b) Conventional average technologies and practices c) Specification and justification of end-of-waste state where applicable d) If selected substituted processes in Module D are in accordance with the c-PCR or (if no c-PCR is available) representative actual processes e) Calculation of net flows in Module D f) 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 ch. 6.4.3.3 and applicable PCR	√	<input type="checkbox"/>
12.8	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.	M	Applicable PCR	<input type="checkbox"/>	√
13	LIFE CYCLE MODELING INFORMATION	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
13.1	Transparent presentation of LCA modelling (for example by tables, screenshots from LCA software programs etc.)	M	EN 15804 ch. 8.4	√	<input type="checkbox"/>
13.2	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 ch. 8.4	√	<input type="checkbox"/>

13.3	For several locations/products: Presentation of modelling of all locations and products as well as weighting thereof	M		<input type="checkbox"/>	✓
13.4	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"> - Mass balance of inputs and outputs, e.g. mass balance of material resources (feedstock) input and output (product/waste/emissions/secondary material) - CO and CO₂ emissions coherent with the mass input of fossil energetic resources - Are the energy indicators coherent with the energetic resources used? 	M	EN 15804 ch. 8.4	✓	<input type="checkbox"/>
13.5	Overview of biogenic carbon flows in the different modules	O	EN 15804 ch. 6.4.4 and ch. 8.2	✓	<input type="checkbox"/>
14	PARAMETERS OF THE LIFE CYCLE INVENTORY (LCI) AND LIFE CYCLE IMPACT ASSESSMENT (LCIA)	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
14.1	Presentation of the parameters in tabular form for all modules A1 to D	M	EN 15804 ch. 7.2.2 and EN 15978 ch. 12.5	✓	<input type="checkbox"/>
14.2	Presentation of the parameters describing environmental impact, use of resources, waste categories and output material flows	M	EN 15804 ch. 6.5 and ch. 7.2.3–7.2.5, and applicable PCR	✓	<input type="checkbox"/>
14.3	Disclaimers to the relevant core and additional environmental impact indicators	M	EN 15804 ch. 7.2.3.3	✓	<input type="checkbox"/>
14.4	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		✓	<input type="checkbox"/>
14.5	Selection of correct characterisation factors and elimination of long-term emissions (>100 years)	M	EN 15804 ch. 8.2 and annex (amendment), and applicable PCR	✓	<input type="checkbox"/>
14.6	Justification of characterisation factors applied in case of input/output flows that are not on the list of characterisation factors of the EN 15804 and applicable PCR	M		<input type="checkbox"/>	✓
14.7	Information on the environmental impacts in the project report: <ul style="list-style-type: none"> a) Reference to characterisation models and factors b) 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 ch. 8.2	✓	<input type="checkbox"/>
15	INTERPRETATION	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
15.1	Interpretation of the results based on a dominance/contribution analysis of selected indicators	O		✓	<input type="checkbox"/>
15.2	Relationship between the results of the LCI and the results of the LCIA	M	EN 15804 ch. 8.2	✓	<input type="checkbox"/>
15.3	Assumptions and restrictions as regard the interpretation of results in the EPD, in terms of both methods and data.	M	EN 15804 ch. 8.2	✓	<input type="checkbox"/>

15.4	In the case where an EPD is declared as an average environmental performance for a number of products, 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 ch. 8.2	√	<input type="checkbox"/>
15.5	Interpretation of the influence of data quality. An assessment of data quality should be provided if the data quality differs for significant data.	M	EN 15804 ch. 8.2, ISO 14040, CEN TR15941 and applicable PCR	√	<input type="checkbox"/>
15.6	Comprehensive transparency as regards value decisions, justifications and expert opinions, i.e. transparency to avoid misinterpretation.	M	EN 15804 ch. 8.2	√	<input type="checkbox"/>
16	ADDITIONAL INFORMATION	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
16.1	If additional information is given, check the documentation: a) Laboratory results/measurements listed in the content declaration b) Laboratory results/measurements listed in the functional/technical performance c) Documentation on the declared technical information on individual life-cycle stages not taken into consideration in the construction product's LCA but applicable building assessment (e.g. transport routes, energy consumption during the usage stage, cleaning cycles etc.) d) Laboratory results/measurements pertaining to the declared emissions in indoor air, soil or water during the use stage	M	EN 15804 ch. 8.3	<input type="checkbox"/>	√
16.2	Where relevant: ensure that information additional to EN 15804 is verified e.g. by reference to standards or other publicly accepted test requirements	M	EN 15804 ch. 8.3	<input type="checkbox"/>	√
17	DOCUMENTATION FOR CALCULATING THE REFERENCE SERVICE LIFE (RSL)	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
17.1	The RSL shall be declared if the full life cycle A1-C4, or the B modules, are declared. Documentation for calculating the reference service life (RSL), shall be representative for the declared product	M	EN 15804 ch. 6.3.4	<input type="checkbox"/>	<input type="checkbox"/>

VERIFICATION CHECKLIST PART B: REQUIREMENTS ON THE EPD

This whole section is mandatory to verify. The rules for the EPD format can be found in EN 15804 ch. 7 and in EN 15942.

1	REQUIREMENTS	REFERENCE	CHECKED AND APPROVED	N/A
1.1	<p>EPD includes as general information</p> <ul style="list-style-type: none"> a) Text “Environmental Product Declaration in accordance with ISO 14025 and EN 15804”, prominently visible in the EPD* b) Statement that “EPD of construction products may not be comparable if they do not comply with EN 15804” c) Publisher name*, address*, logo, website d) Name of declared product* e) If applicable: CPC-code f) Declaration owner / Name and address of manufacturer/association g) Geographical scope i.e. market(s) where the product is produced, where it may be applied and where the end-of-life is assumed to take place. h) A statement whether the EPD is a specific or an average EPD. Description of the kind of average i) Names of manufacturer(s) when the EPD declares an average of several manufacturers j) Program logo and website k) Date of issue* + validity (5 years)/date of expire* + date of update if relevant* l) EPD identification (registration number of the EPD on programme operator level and on ECO Platform level). m) Variability for average declaration n) Product composition o) Stages omitted, if not full LCA <p>*These items shall be declared on the front page of the EPD.</p>	EN 15804 ch. 7.1, applicable PCR and ECO Platform List of content to declare in an ECO EPD	√	<input type="checkbox"/>
1.2	PCR name, registration number, version and date. If applicable: c-PCR (complementary PCR).	Applicable PCR	√	<input type="checkbox"/>

1.3	Demonstration of verification: external ¹ independent verification, name of third-party verifier	GPI and EN 15804 ch. 7.1 (table 2)	√	<input type="checkbox"/>
1.4	Information on the validity: Does it correspond with the specifications in the project report?		√	<input type="checkbox"/>
1.5	Appropriateness of logos of the company, programme operator and ECO Platform. Appropriateness of pictures.	ECO Platform List of content to declare in an ECO EPD	√	<input type="checkbox"/>
2.	PRODUCT	REFERENCE	CHECKED AND APPROVED	N/A
2.1	The product description is in line with the project report, and clear enough described to identify the declared product ambiguously. Name and location of production site(s).	ECO Platform List of content to declare in an ECO EPD	√	<input type="checkbox"/>
2.2	<p>If applicable: For sector EPDs: explanations on calculations of averages within a product group, and representativeness:</p> <p>a) Information on the most influencing parameters in the LCA;</p> <p>b) Information on restrictions to the use of the EPD;</p> <p>c) Useful information in the EPD for the representativity of the average EPD:</p> <ul style="list-style-type: none"> - 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; <p>d) Sampling process if only representative companies/sites are chosen;</p> <p>e) Description of the relative production volume covered by the EPD;</p> <p>f) Geographical coverage;</p> <p>g) The range of products for which the EPD is relevant, even if data from some products have not been used directly in producing the EPD.</p> <p>h) If GWP-GHG indicator results differ by more than $\pm 10\%$ for A1-A3 (A1-A5 for services): Information on the variation in the composition of the product compared with the average product declared in the EPD.</p>	EN 15804 ch. 7.1, applicable PCR and ECO Platform List of content to declare in an ECO EPD	<input type="checkbox"/>	√
2.3	Specification / identification (picture, name, model)	EN 15804 ch. 7.1 and ECO Platform List of content to declare in an ECO EPD	√	<input type="checkbox"/>
2.4	Indication of the intended use. Application and technical functions of the product.	EN 15804 ch. 7.1 and ECO Platform List of content to declare in an ECO EPD	√	<input type="checkbox"/>

¹ EN15804 ch. 7.2 Table 2 mentions the possibility of internal or external verification. In the ECO Platform external verification is preferred and advised.

2.5	Relevant technical data (additional information is possible) including RSL if applicable (average values or range in case of product groups)		√	<input type="checkbox"/>
2.6	The test standards to which the technical data refers		√	<input type="checkbox"/>
2.7	A description of the main product components and or materials is provided in accordance with the specifications of the PCR (if available) and the project report. As a minimum, the description shall include substances listed in the latest "Candidate List of Substances of Very High Concern for authorisation" if their content exceeds the limits for registration.	EN 15804 ch. 7.1	<input type="checkbox"/>	√
2.8	Description of the manufacturing process / all manufacturing processes if several locations are involved	EN 15804 ch. 7.1	√	<input type="checkbox"/>
3	LCA RULES	REFERENCE	CHECKED AND APPROVED	N/A
3.1	Information on the declared / functional unit corresponds with the specifications of the PCR, c-PCR (if available) and project report	Applicable PCR	√	<input type="checkbox"/>
3.2	EPD type a) cradle-to-gate with modules C1–C4 and module D; b) cradle-to-gate with modules C1–C4, module D and optional modules; c) cradle-to-grave and module D; d) cradle to gate; e) cradle to gate with options; f) construction service EPD: cradle to gate with modules A1-A5 and optional modules	EN 15804 ch. 7.2.2 and applicable PCR	√	<input type="checkbox"/>
3.3	Reporting modules declared (X) and not declared (ND), geography, share of specific data (in GWP-GHG indicator) and data variation. See table 3 in PCR 2019:14.	Applicable PCR	√	<input type="checkbox"/>
3.4	A (simple) flow diagram in accordance with the modular approach	EN 15804 ch. 7.2.1	√	<input type="checkbox"/>
3.5	Description of the system boundary (can be simplified, as a picture or in wording), including the assignment of the analysed processes to the modules	Applicable PCR	√	<input type="checkbox"/>
3.6	If applicable: Description of key assumptions which are not depicted elsewhere in the EPD	Applicable PCR	<input type="checkbox"/>	√
3.7	If applicable: Presentation of the application of cut-off criteria in accordance with the project report	Applicable PCR	<input type="checkbox"/>	√
3.8	Source of generic data used, name and dated version. Description of what upstream and/or downstream data has been applied is optional.	ECO Platform List of content to declare in an ECO EPD	√	<input type="checkbox"/>
3.9	Information on the data collection period and resulting averages		√	<input type="checkbox"/>
3.10	Presentation of the allocations of relevance for calculation in accordance with the minimum requirements of the PCR	Applicable PCR	√	<input type="checkbox"/>
4	LCA: SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION	REFERENCE	CHECKED AND APPROVED	N/A
4.1	Mandatory for all declared modules beyond A3: declaration of assumptions pertaining to the scenarios of the declared modules in accordance with the project report. Information on undeclared modules is optional.	EN 15804 ch. 7.3	√	<input type="checkbox"/>
4.2	If a reference service life is declared in the EPD, presentation of the scenario on which the RSL is based, in accordance with the project report.	EN 15804 ch. 7.3.3.2	<input type="checkbox"/>	√
5	LCA: RESULTS	REFERENCE	CHECKED AND APPROVED	N/A
5.1	Description of the declared / functional unit		√	<input type="checkbox"/>

5.2	Full declaration of results for all required indicators, according to the modular approach. Indicators include those based on LCIA and those based on LCI (e.g. including biogenic carbon content in product and in any accompanying packaging, if applicable). Result table contains: Only values or the letters “ND” (not declared). No blank cells, hyphens or other symbols. The value 0 only for parameters that have been calculated to be 0. “ND” is only for parameters that are not quantified because of no data available. Footnotes shall be used to explain and limitation to the result value.	EN 15804 ch. 6.4.4, 7.2.3, 7.2.4, 7.2.5 7.5 and 8.2, applicable PCR and ECO Platform List of content to declare in an ECO EPD	√	<input type="checkbox"/>
5.4	The declared indicator and other quantitative results shall be identical with the respective values in the project report		√	<input type="checkbox"/>
5.5	In case of product averages: description of the range / variability of the LCIA results. This may be qualitative information.	EN 15804 ch. 7	<input type="checkbox"/>	√
5.6	Deletion of module columns which are not declared (permissible for the Results part).	ECO Platform List of content to declare in an ECO	√	<input type="checkbox"/>
5.7	Formatting the table framework and parameter addressed in accordance with the specifications of the PCR or the program operator rules (including the GPI and possible additional requirements at www.environdec.com).	GPI and www.environdec.com	√	<input type="checkbox"/>
5.8	If applicable: For sector EPDs: If GWP-GHG indicator results differ by more than ±10 % for A1-A3: declare the variation in results between the productions sites.	Applicable PCR	√	<input type="checkbox"/>
6	EVIDENCE FOR TESTS OR CERTIFICATES	REFERENCE	CHECKED AND APPROVED	N/A
6.1	If applicable: Additional information is on release of dangerous substances to indoor air, soil and water during the use stage	EN 15804 ch. 7.4	<input type="checkbox"/>	√
6.2	If applicable: Declaration of the relevant evidence for 6.1, or information where to find this evidence	Applicable PCR	<input type="checkbox"/>	√
7	REFERENCES	REFERENCE	CHECKED AND APPROVED	N/A
7.1	List of references	Applicable PCR	√	<input type="checkbox"/>
8	ANNEX	REFERENCE	CHECKED AND APPROVED	
8.1	An Annex may contain all additional information required for specific national use in different countries.	ECO Platform List of content to declare in an ECO EPD	<input type="checkbox"/>	√
9	MACHINE-READABLE EPD INFORMATION	REFERENCE	CHECKED AND APPROVED	N/A
9.1	If applicable: Information in the machine-readable EPD format correspond with the verified information of the EPD		<input type="checkbox"/>	√

VERIFICATION CHECKLIST PART C: REQUIREMENTS FROM OTHER STANDARDS AND REFERENCES

This whole section is mandatory to verify. It has been added to ensure that e.g. any programme-specific requirements that are not included in Parts A and B are part of the verification.

1	OTHER STANDARDS AND REFERENCES	REFERENCE	CHECKED AND APPROVED	N/A
1.1	Compliance with other requirements in ISO 14020	ISO 14020	√	<input type="checkbox"/>
1.2	Compliance with other requirements in ISO 14025	ISO 14025	√	<input type="checkbox"/>
1.3	Compliance with other requirements in EN 15804:2012+A2:2019	EN 15804:2012+A2:2019	√	<input type="checkbox"/>
1.4	Compliance with other requirements in ISO 21930:2017, if applicable	ISO 21930:2017	√	<input type="checkbox"/>
1.5	Compliance with other requirements in General Programme Instructions in the International EPD® System and complementary requirements at www.environdec.com	General Programme Instructions	√	<input type="checkbox"/>
1.6	Compliance with other requirements in referenced Product Category Rules (PCR) available at www.environdec.com	Applicable PCR(s)	<input type="checkbox"/>	√

DIALOGUE BETWEEN VERIFIER AND EPD OWNER DURING THE VERIFICATION PROCESS

The dialogue between the external verifier and EPD owner during the verification process shall be documented. An example is available in the table below. For EPD Process Certification, the process defined by the certification body for documentation of verification shall instead be followed and the certificate provided during EPD registration.

Any deviations from the requirements, the dialogue between verifier and LCA practitioner, and as well improvements made following the verification process shall be documented in a transparent way and in English.

Example of documentation of dialogue:

Nº	CHAPTER, ARTICLE, PARAGRAPH, TABLE	TYPE OF COMMENT*	REFERENCE TO CHECKLIST OR PROGRAMME INSTRUCTIONS	VERIFIER COMMENT AND RECOMMENDATION	EPD OWNER ANSWER	FINAL VERIFIER STATEMENT
1	p. 22 - last sentence	Ed	N/A	"it's" should be "its"	Changes made	The reviewer accepts the changes.
2	p. 40 - 2nd paragraph	Ed	N/A	Errant carriage return	Changes made	The reviewer accepts the changes.
3	N/A	Te	17.1 checklist item	There is no mention of nor justification in the LCA study for the stated RSL in the EPD. When a LCA study does not include the use stage, a RSL is optional. Recommend, either justifying the RSL in the LCA study or removing it from the EPD. Preference would be to include the RSL, as this will be an important performance factor for this product application.	The RSL, its reference and editorial findings have been updated. Also, added in the indicator descriptions as an Appendix in the project report.	The reviewer accepts the changes.
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...						

Rows may be added/deleted, as needed.

* Editorial (Ed), General (Ge) or Technical (Te)

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