



tecnalia  
certificación

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## VERIFICATION REPORT FOR CONSTRUCTION PRODUCTS

**ENVIRONMENTAL PRODUCT DECLARATION  
FOR THE PRODUCT:  
EGO-CLT Cross Laminated Timber wood panel**

**COMPANY:  
EGOIN, S.A.**

**CERTIFICATION BODY:  
TECNALIA R&I CERTIFICACION, S.L.**

**AUDITOR:  
ELISABET AMAT**

**VERIFICATION STATE:  
ONGOING**

**Report (date and version): V1 (08/05/2018)**

## 1. INTRODUCTION

This document serves as the verification report of Environmental Product Declarations (EPDs), to meet the procedural and methodological requirements in ISO 14020/14025, the General Programme Instructions 2.5 of the International EPD® System, the referenced Product Category Rules (PCR) and the European standard EN 15804:2012+A1:2013.

## 2. STATEMENT BY THE AUDITOR

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the following Environmental Product Declaration (EPD) and its project report, in terms of:

- The underlying data collected and used for the LCA calculations.
- The way the LCA-based calculations has been carried out to comply with the calculation rules described in the reference PCR.
- The presentation of environmental performance included in the EPD.
- Other additional environmental information included in the declaration, if existent.

with respect to the procedural and methodological requirements in ISO 14020, ISO 14025, the General Programme Instructions of the International EPD® System, the below-referenced Product Category Rules, and EN 15804.

EPD registration number (provided by the Secretariat):	S-P-01314
Product name:	EGO-CLT Cross Laminated Timber wood panel
Company:	EGOIN, S.A. Astei, S/N 48287 Natxitua/Ea (Bizkaia) SPAIN
PCR (name, version and registration number):	PCR 2012:01 V2.2 Construction products and construction services Sub-PCR to PCR 2012:01 Wood and wood-based products for use in construction (EN 16485:2014)
Validity of EPD:	5 YEARS
Additional comments from the reviewer:	None

I confirm that 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 auditor in accordance with the requirements in General Programme Instructions Section 5.6., 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.

The auditor states that this verification has been carried out following a sampling method so that there could be additional deviations not detected in this report

External verifier:

- Certification Body: TECNALIA R&I Certificación  
(accreditation no. 125/C-PR283 by ENAC)
- Name of the auditor: Elisabet Amat

Place:

Astei, S/N  
48287 Natxitua/Ea (Bizkaia) SPAIN

Signature:



Date:

Pre-verification report: 04/05/2018  
Audit: 07/05/2018  
Verification report v1: 08/05/2018

### 3. VERIFICATION CHECKLIST Part A: Calculation rules for the Life Cycle Assessment and requirements on the project report:

The following issues must be checked. 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 a 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 - AVAILABILITY	MANDATORY (M) / OPTIONAL (O)	REFERENCE	DEVIATIONS FROM REQUIREMENTS	DONE
1.1	Commissioner of LCA study, LCA practitioner	M	EN 15804 ch.8.2		√
1.2	Date of issue of LCA report	M	EN 15804 ch.8.2		√
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 + applicable PCR		√
1.4	Any other independent verification of the data given in the LCI/LCA documentation?	O		None	√
2	STUDY GOAL – AVAILABILITY OF INFO	MANDATORY / OPTIONAL	REFERENCE	DEVIATIONS FROM REQUIREMENTS	DONE
2.1	Reasons for performing the Life Cycle Assessment	M	EN 15804 ch.8.2		√
2.2	Intended application – (e.g. for EPD, databases, publication etc.) Is the LCA designed in such a way that it allows B2B communication for environmental assessments of buildings?	M	EN 15804 ch.8.2		√
2.3	Target group (B2B, B2C, ...)	M	EN 15804 ch.8.2		√
3	FUNCTIONAL UNIT / DECLARED UNIT – AVAILABILITY OF INFO	MANDATORY / OPTIONAL	REFERENCE	DEVIATIONS FROM REQUIREMENTS	DONE
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		√
3.2	If product groups (similar products from one manufacturer and/or from different production plants) are formed as averages: – Calculation rules for the formation of averages – Representativeness of averages	M	EN 15804 ch.8.2	Not applicable	√
4	PRODUCT DESCRIPTION – AVAILABILITY OF INFO	MANDATORY / OPTIONAL	REFERENCE	DEVIATIONS FROM REQUIREMENTS	DONE
4.1	Composition of the product	M	ISO 14025		√
4.2	Description of technical and functional characteristics and area of intended application in the building	M	Applicable PCR		√
4.3	Flow diagram of main production processes and visualization of system boundaries	M	ISO 14025		√

5	SYSTEM BOUNDARIES IN ACCORDANCE WITH THE MODULAR DESIGN OF THE EN 15804	MANDATORY / OPTIONAL	REFERENCE	DEVIATIONS FROM REQUIREMENTS	DONE
5.1	Comprehensive declaration of modules A1 to A3 as a minimum requirement, if necessary as an aggregated module A1-A3	M	EN 15804 ch. 6.3.4		√
5.2	A1 to A3: System boundary <ul style="list-style-type: none"> <li>- Clear description of what the modules cover</li> <li>- System boundary to nature (eg forest in wood production)</li> <li>- Use of secondary materials and secondary fuels and waste produced (check end-of- waste state)</li> <li>- If applicable: Reference to the certificate of the offsetting of CO<sub>2</sub></li> </ul>	M (CO <sub>2</sub> certificates optional)	EN 15804 ch. 6.3.4.2 and applicable PCR		√
5.3	A1 to A3: Allocation of co-products: <ul style="list-style-type: none"> <li>- Specification of the "end-of- waste state"</li> <li>- Selection of the allocation factors for co-product allocation</li> <li>- Justification of specific allocation processes (e.g. if data are not available to allocate according to the EN 15804 rules)</li> <li>- Presentation of the energy and material flows as a result of deviating allocation processes</li> <li>- No declaration of loads and benefits in Module D from allocation in A1-A3</li> </ul>	M	EN 15804 ch. 6.4.3.2 + annex B.1		√
5.4	A4 to A5 (optional module): Clear description and content of modules	M	EN 15804 ch. 6.3.4.3 and applicable PCR		√
5.5	Accounting losses in the modules in which they arise (e.g. A4, transport to construction site)	M	EN 15804 ch. 6.3.4.1		√
5.6	B1 to B5 (optional module): Delineation and content of modules	M	EN 15804 ch. 6.3.4.4 and applicable PCR		√
5.7	B6 and B7 (optional module): Delineation and content of modules	M	EN 15804 ch. 6.3.4.4 and applicable PCR		√
5.8	C1 to C4 (optional module): Delineation and content of modules	M	EN 15804 ch. 6.3.4.5 and applicable PCR		√
5.9	C3 (optional module): Justification of the "end-of-waste state" <ul style="list-style-type: none"> <li>- Existing purpose</li> <li>- Existing market or demand</li> <li>- Compliance with technical requirements and legal guidelines</li> <li>- Fulfils limit values for Substances of Very High Concern (SVHC)</li> </ul>	M	EN 15804 ch. 6.3.4.5 + annex B.1 and applicable PCR		√
5.10	C4 (optional module): Carefully check the correct allocation	M	EN 15804 ch. 6.3.4.5 and ch.6.3.4.6		√
5.11	D (optional module): System boundary and contents of Module justified	M	EN 15804 ch. 6.3.4.6		√

5.12	D (optional module): Check if the net flow calculation is done correctly taking into consideration relevant factors, e.g.: – Processing losses – Inputs in Modules A1 to A3 (and A4 to B5 if necessary)	M	EN 15804 ch. 6.3.4.6 and 6.4.3.3		√
5.13	D (optional module): No benefits or loads of allocated co-products	M	EN 15804 ch.6.4.3.3		√
<b>6</b>	<b>POWER MIX (E.G. ELECTRICITY)</b>	<b>MANDATORY / OPTIONAL</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
6.1	Selection of the power mix in accordance with the location of the production site(s)	M	CEN TR15941 and applicable PCR		√
6.2	If applicable: Validity of the certificates for green power	O	Applicable PCR	Not applicable	√
<b>7</b>	<b>CO<sub>2</sub> CERTIFICATES</b>	<b>MANDATORY / OPTIONAL</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
7.1	If applicable: Selecting allowable certificates in accordance with the PCR	O	Applicable PCR	Not applicable	√
7.2	If applicable: Offsetting in accordance with the requirements from the individual program operators	O	Applicable PCR	Not applicable	√
<b>8</b>	<b>DESCRIPTION OF THE SYSTEM BOUNDARIES</b>	<b>MANDATORY / OPTIONAL</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
8.1	Transparent description of the system boundaries: – Representativeness (temporal, geographical, technological) – Assessment period for each module considered in the Life Cycle Assessment (eg one year average, etc) – Omissions of life cycle stages, processes and data requests – Assumptions with regard to 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 14040 EN 15804 ch. 8.2	<b>Deviation 1:</b> In the LCA report, it should be necessary to clearly indicate the source of the assumption of the avoided product in module D: 4,375m <sup>3</sup> Virutas de madera residual /m <sup>3</sup> CLT.	□
<b>9</b>	<b>CRITERIA FOR EXCLUDING INPUTS AND OUTPUTS</b>	<b>MANDATORY / OPTIONAL</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
9.1	Selection of the cut-off criteria, description of application of the criteria and assumptions	M	EN 15804 ch.6.3.5 and ch. 8.2 Applicable PCR		√
9.2	List of excluded processes available		EN 15804 ch. 8.2	<b>Deviation 2:</b> It should be declared in the LCA report that in module A2, transport of packaging (plastic film) has not been included because it is considered negligible.	□
<b>10</b>	<b>DATA COLLECTION</b>	<b>MANDATORY / OPTIONAL</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>

10.1	Data collection, including data quality issues, according to LCA rules	M	ISO 14044, section 4.3.2; Documentation ISO 14040 EN 15804, 6.3.6		√
<b>11</b>	<b>DEVELOPMENT OF SCENARIOS AT PRODUCT LEVEL IN MODULES A4-A5-B-C-D</b>	<b>MANDATORY / OPTIONAL</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
11.1	Statement that the scenarios included are currently in use and are representative for one of the most likely scenario alternatives Check the PCR / program rules if average scenarios are allowed. (preferably no average scenarios for various alternatives)	M	EN 15804 ch. 6.3.8 Applicable PCR		√
11.2	Documentation of the relevant technical information, e.g. recycling or reuse rates, with reference to the literature source	M			√
<b>12</b>	<b>SELECTING DATA / BACKGROUND DATA</b>	<b>MANDATORY / OPTIONAL</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
12.1	Selection and use of generic data and background data justified and validity demonstrated (Commonly used and publicly available databases in Europe are GaBi database, EcoInvent, Okobau.dat, ILCD)	M	EN 15804 ch.6.3.6 EN 15941 Applicable PCR		√
12.2	<ul style="list-style-type: none"> <li>- &lt; 10 years for background data</li> <li>- &lt; 5 years for manufacturer's data</li> <li>- Data manufacturer based on 1 year average</li> <li>- Time period of 100 years in case of a landfill scenario, longer if relevant</li> <li>- Technical background complies with physical reality</li> <li>- Integrity of generic data records, system limit and cut- off criteria for generic data records validity demonstrated</li> </ul>	M	EN 15804 ch. 6.3.7 EN15941 Applicable PCR	<p><b>Deviation 3:</b> In page 16 of the LCA report, the table presenting LCI on A2. Transport module lacks information on transport of Glue, Gasoil, and other auxiliar materials (correas y ventosas).</p> <p><b>Deviation 4:</b> During the in-site audit one error in the LCI have been detected and it should be corrected: -total quantity of CLT produced = 6.884 m3 instead of 5.500 m3 (therefore total quantity of m3 at the entrance is 6.884x1,25 = 7.701 m3).</p>	□
12.3	Documentation on data /background data: <ul style="list-style-type: none"> <li>- Name of the (background) data record, its source (database, literary source etc.), year of data collection and its representativeness</li> <li>- Handling missing data</li> <li>- Assessing data quality</li> </ul>	M	EN15941 Applicable PCR		√

12.4	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		<p>Note 1: Verified during the in-site audit:</p> <ul style="list-style-type: none"> <li>- Information from the ERP system (Expertis): total m3 of wood from Ebaki =4.289; total m3 of wood from Stora Enso=1.307; total kg of glue=3.000+18.000; total income 2017 Egoïn (M€);</li> <li>- Invoices from the electricity provider Iberdrola (January and July 2017). Total annual consumption=1.142.138k Wh;</li> <li>- Invoices from the gasoil provider (January and May 2017). Total annual consumption=14.131 liters;</li> <li>- Email from Matxalen Oregi with total kWh wood 2017 = 595,55 m3;</li> <li>- Email from France distributor Philippe Baudoin (HBD-CLT) dated 28.03.18 with details for distribution scenarios.</li> </ul>	√
<b>13</b>	<b>ALLOCATIONS</b>	<b>MANDATORY / OPTIONAL</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
13.1	General allocation principles applied (avoidance of allocation, no double counting/ omissions, uniform application of the allocation rules etc.)	M	ISO14044 ch.6 4.3.4		√
13.2	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 8.2 Applicable PCR		√
13.3	Presentation and justification of allocations in the plant (delineation from other products in a plant)	M			√
13.4	If applicable: Presentation and justification of allocation of multi-input processes (e.g. landfilling or incineration)	M			√
13.5	Co-product allocation correctly applied, see also 5.3	M	EN 15804 ch. 6.4.3.2		√
13.6	Documentation of allocation factors used and their (independent) sources	M			√



13.7	<p>Allocation process for reuse, recycling and recovery, check specifically:</p> <ul style="list-style-type: none"> <li>- Consistency with other scenarios of waste management</li> <li>- Conventional average technologies and practices</li> <li>- Specification and justification of end-of-waste state where applicable</li> <li>- If applicable (module D): Selecting substituted processes in accordance with the PCR or (if no PCR is available) representative actual processes</li> <li>- If applicable (substitution in Module D): Calculation of net flows</li> <li>- Conservative approach, i.e. choice of those scenarios and calculation rules that reflect the highest environmental impacts in comparison to other choices</li> </ul>	M	EN 15804 ch.6.4.3.3 and applicable PCR		√
13.8	Is there any presentation or expert guess of data sets which do not comply with the allocation principles and description of consequences for the LCA results?	M	Applicable PCR		√
<b>14</b>	<b>LIFE CYCLE MODELING INFORMATION</b>	<b>MANDATORY / OPTIONAL</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
14.1	Transparent presentation of Life Cycle Assessment modeling (for example by tables, screenshots from Life Cycle Assessment software programs etc.)	M	EN 15804 ch.8.4	<b>Deviation 5:</b> Units shown in table A3-Fabricación CLT in page 14 of the LCA report should be checked to clearly indicate units/m <sup>3</sup> CLT (as the other tables), not only units/m <sup>3</sup> , because otherwise they can be confused by densities.	□
14.2	Clear description how company data are used in which data records in Life Cycle Assessment software programs	M	EN 15804 ch.8.4		√
14.3	Assignment of process data to the Life Cycle Assessment modules	M	EN 15804 ch.8.4		√
14.4	For several locations/products: Presentation of modeling of all locations and products as well as weighting thereof	M			√
14.5	Plausibility and consistency of data (mass balance, energy balance) Balances on company level and in the life cycle. e.g. Mass balance between reference flow and wastes for cradle to grave data / Mass of non-energetic resources used coherent with the reference flow / CO and CO <sub>2</sub> emissions coherent with the mass of fossil energetic resources / check of the sum of non-renewable and renewable parts or between feedstock and fuel parts / Is the energy indicators coherent with the energetic resources used?	M	EN 15804 ch.8.4		√
<b>15</b>	<b>PARAMETERS OF THE LIFE CYCLE INVENTORY ANALYSIS AND LIFE CYCLE IMPACT ASSESSMENT</b>	<b>MANDATORY / OPTIONAL</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
15.1	Presentation of the parameters in tabular form for all modules A1 to D Marking unassessed modules as "MNA" (= module not assessed)	M	EN 15804 ch. 7.2.2 EN15978 ch. 12.5		√

15.2	Presentation of the parameters describing environmental impact (7 parameters), the parameters for describing the use of resources (10 parameters), parameters for describing the waste categories (3 parameters) and parameters concerning output material flows (4 parameters)	M	EN 15804 ch. 6.5, 7.2.3 to 7.2.5		√
15.3	Selection of correct characterization factors and elimination of long-term emissions (> 100 years)	M	EN 15804 ch.8.2 and annex (amendment) and applicable PCR		√
15.4	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			√
15.5	Information on the environmental impacts in the project report: <ul style="list-style-type: none"> <li>- Reference to characterisation models and factors</li> <li>- 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</li> </ul>	M	EN 15804 ch.8.2		√
<b>16</b>	<b>INTERPRETATION</b>	<b>MANDATORY / OPTIONAL</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
16.1	Interpretation of the results based on a dominance/contribution analysis of selected indicators	O			√
16.2	Relationship between the results of the Life Cycle Inventory Assessment and the results of the Life Cycle Impact Assessment (LCIA)	M	EN 15804 ch.8.2		√
16.3	Assumptions and restrictions as regards the interpretation of results in the EPD, in terms of both methods and data	M	EN 15804 ch.8.2		√
16.4	Variance from the means of LCIA results must be presented if generic data is provided from several sources or [the results] refer to a number of similar products.	M	EN 15804 ch.8.2		√
16.5	Data quality assessment	M	EN 15804 ch.8.2 ISO 14040 CEN TR15941 Applicable PCR		√
16.6	Comprehensive transparency as regards value decisions, justifications and expert opinions	M	EN 15804 ch.8.2		√
<b>17</b>	<b>DOCUMENTATION OF ADDITIONAL INFORMATION</b>	<b>MANDATORY / OPTIONAL</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>

17.1	<p>Where relevant to check the documentation:</p> <ul style="list-style-type: none"> <li>- Laboratory results/measurements listed in the content declaration</li> <li>- Laboratory results/measurements listed in the functional/technical performance</li> <li>- Documentation on the declared technical information on individual life cycle stages not taken into consideration in the construction product's Life Cycle Assessment and applied for evaluation of the building (e.g. transport routes, energy consumption during the usage stage, cleaning cycles etc.)</li> <li>- Laboratory results/measurements pertaining to the declared emissions in indoor air, soil or water during the use stage</li> </ul>	M	EN 15804 ch.8.3		√
17.2	Where relevant: ensure that information additional to EN 15804 is verified	M	EN 15804 ch.8.3		√
<b>18</b>	<b>DOCUMENTATION FOR CALCULATING THE REFERENCE SERVICE LIFE (RSL)</b>	<b>MANDATORY / OPTIONAL</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
18.1	Necessary if the entire life cycle A1-C4 is declared: Documentation for calculating the reference service life (RSL), should be representative for the declared product	M	EN 15804 ch.6.3.3		√

#### 4. 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 the EN 15804 section 7 and the EN 15942: everything that is included in the master ITM (information transfer matrix), should somewhere be documented in the EPD.

1	FORMAL REQUIREMENTS	REFERENCE	DEVIATIONS FROM REQUIREMENTS	DONE
1.1	<p>General, EPD includes:</p> <ul style="list-style-type: none"> <li>- text "Environmental Product Declaration in accordance with ISO 14025 and EN 15804"</li> <li>- Statement that "EPD of construction products may not be comparable if they do not comply with EN 15804"</li> <li>- Publisher / program operator, name, address</li> <li>- Name of declared product</li> <li>- CPC-code</li> <li>- Declaration owner / Name and address of manufacturer/association</li> <li>- Representativeness of geographical area</li> <li>- Representativeness with regard to which manufacturer(s)</li> <li>- Program logo and website</li> <li>- Date of issue + validity (5 years)</li> <li>- Variability for average declaration</li> <li>- Product composition</li> <li>- Stages omitted, if not full LCA</li> </ul>	EN 15804 ch. 7.1 and applicable PCR	<p><b>Deviation 6:</b> The cover lacks EPD registration number (S-P-01314), date of publication and date of validity.</p> <p><b>Recommendation 1:</b> It would be recommended to remove from the cover the logo of the FDES-INIES system.</p>	<input type="checkbox"/>
1.2	PCR name, registration number, version and date	Applicable PCR		√
1.3	Demonstration of verification: external <sup>1</sup> independent verification, name of third party verifier	GPI EN 15804 ch.7.1 and Table 2	<p><b>Deviation 7:</b> Some information regarding the verification should be included in page 15 of the EPD:</p> <ul style="list-style-type: none"> <li>-Independent third-party verification of the declaration and data, according to ISO 14025:2006: EPD process certification or EPD verification.</li> <li>-Procedure for follow-up of data during EPD validity involves third-party verifier: Yes/No</li> </ul>	<input type="checkbox"/>
1.4	Information on the validity corresponds with the specifications in the project report			√
2.	PRODUCT	REFERENCE	DEVIATIONS FROM REQUIREMENTS	DONE
2.1	The product description is in line with the project report and the product studied, and clear enough described in the EPD to understand what product is declared			√
2.2	If applicable: Explanations on calculations of averages within a product group	EN 15804 ch. 7.1		√
2.3	Specification / identification (picture, name, model)	EN 15804 ch.7.1		√
2.4	Indication of the intended use	EN 15804 ch.7.1		√
2.5	Relevant technical data (additional information is possible) including RSL if applicable			√
2.6	The test standards to which the technical data are			√

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

	referred to.			
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 LCA project report. As a minimum substances that are 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		√
2.8	Description of the manufacturing process / all manufacturing processes if several locations are involved	EN 15804 ch. 7.1		√
<b>3</b>	<b>LCA RULES</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
3.1	Information on the declared / functional unit corresponds with the specifications of the PCR (if available)	Applicable PCR		√
3.2	Indication of the EPD type (cradle-to-gate, cradle-to-gate with options, cradle-to-grave)	EN 15804 ch. 7.2.2		√
3.3	EPD contains a (simple) flow diagram in accordance with the modular approach	EN 15804 ch. 7.2.1	<b>Deviation 8:</b> According to chapter 7.1 UPSTREAM PROCESSES of the PCR 2012:01, the Generation of electricity should be accounted in module A1 and not module A3. Calculations and the diagram of page 4 of the EPD (and LCA report) shall be modified accordingly.	<input type="checkbox"/>
3.4	Description of the system boundary (can be simplified, as a picture or in wording) Presentation of assignment of the analysed processes to the life cycle modules			√
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			√
3.8	Indication of the age of background data used			√
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			√
<b>4</b>	<b>LCA: SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
4.1	Mandatory for all declared modules > A3: Presentation 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 ch. 7.3		√
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		√
<b>5</b>	<b>LCA: RESULTS</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
5.1	Description of the declared / functional unit			√
5.2	Identification of the declared/undeclared modules MNA = module not assessed		<b>Deviation 9.</b> Diagram shown in page 3 of the EPD should clearly indicate MA and MNA.	<input type="checkbox"/>


5.3	Full declaration of all indicators required according to the modular approach INA = indicator not assessed	EN 15804 ch.7.2.3, 7.2.4, 7.2.5 and 7.5	<p><b>Deviation 10.</b> According to PCR and EN 15804, GWP indicator should be presented as a total and not divided into (Fossil, Biogenic and Land Use).</p> <p><b>Deviation 11:</b> According to EN 16485:2014 Chapter 6.3.4.2, biogenic emissions should be accounted as neutral. In other words, biogenic emissions captured by the product in module A1, should be the same as those emitted (translated to the recycled product) in module C3.</p>	□
5.4	Compliance of the declared values with the information in the project report		<p><b>Recommendation 2:</b> It would be interesting to include a footnote for those additional indicators (Water pollution m3 eq and Air pollution m3 eq) indicating that they are based on Annex C France norm NF EN 15804/CN.</p>	√
5.5	In case of product averages: description of the range/ variability of the LCIA results	EN 15804 ch.7		√
5.6	Deletion of module columns which are not declared (permissible for the Results part) if program allows	Program operator rules		√
5.7	Formatting the table framework and parameter addressed in accordance with the specifications of the PCR or the Program Operator rules			√
<b>6</b>	<b>EVIDENCE FOR TESTS OR CERTIFICATES</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
6.1	Additional information is provided to indoor air or soil/water, if applicable	EN 15804 ch.7.4		√
6.2	Declaration of the relevant evidence. Information where to find this evidence	EN 15804 ch.7.2 Applicable PCR Existing program rules		√
<b>7</b>	<b>REFERENCES</b>	<b>REFERENCE</b>	<b>DEVIATIONS FROM REQUIREMENTS</b>	<b>DONE</b>
7.1	Full indication of all referenced sources (excluding standards already quoted in full and standards concerning evidence)			√

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## 5. VERIFICATION CHECKLIST Part C: Requirements from other standards and references

This whole section is mandatory to verify.

1	OTHER STANDARDS AND REFERENCES	REFERENCE	DEVIATIONS FROM REQUIREMENTS / FINAL COMMENTS	DONE
1.1	Compliance with other requirements in ISO 14020	ISO 14020		√
1.2	Compliance with other requirements in ISO 14025	ISO 14025		√
1.3	Compliance with other requirements in EN 15804:2012+A1:2013	EN 15804		√
1.4	Compliance with other requirements in General Programme Instructions in the International EPD® System	GPI		√
1.5	Compliance with other requirements in referenced Product Category Rules (PCR) available at <a href="http://www.environdec.com">www.environdec.com</a>	Applicable PCR		√

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## 6. VERIFICATION CHECKLIST Part D: Use of the logotype and single issue labels

During renewal verifications of construction products and services, the following issues must be checked in order to assess the adequate use of the logotype and single issue labels from verified EPD's.

Any deviations from the requirements should be reported by the verifier.

1	FORMAL REQUIREMENTS	MANDATORY (M) / OPTIONAL (O)	REFERENCE	DEVIATIONS FROM REQUIREMENTS	DONE
1.1	Correct use of the logotype on declarations, products, packaging materials, and information material (if applicable)	M	GPI		√
1.2	Correct use of single issue labels (if applicable)	M	GPI		√