



CHECK LIST TO VERIFY LCA STUDY AND EPD OF THE CONSTRUCTION PRODUCT

LISTA DI CONTROLLO PER LA VERIFICA DELLO STUDIO LCA ED EPD DEI PRODOTTI DA COSTRUZIONE

To compile in case of EPD based on EN 15804

Compilare nel caso di EPD basate su EN 15804

Company

Azienda – sede legale

Address

Indirizzo

Product type

Tipo di prodotto

Production Unit

Sito produttivo/organizzazione verificata

LEAD AUDITOR

*ISPETTORE
COORDINATORE*

Signature

firma

AUDIT

AUDITOR

ISPETTORE

Signature

firma

Date

Data

Audit Type

Tipo di audit



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Compile Instructions:

The Checklist is designed to be used for an audit whose references (audit team, date and type of audit) are indicated on the first page.

- For unverified points indicate NV in the “checked and approved” field (in case an entire chapter has not been verified is sufficient to state this at the first question).
- For not applicable points indicate NA “checked and approved” field (if an entire chapter is not applicable is sufficient to state this at the first question).

Document reference:

- GPI: International EPD® System General Programme Instructions
- REG: EPDIItaly Regulations

Istruzioni per la compilazione:

La Lista di Controllo è progettata per essere utilizzata per un audit i cui riferimenti (gruppo di audit, data e tipo di audit) sono indicati nella prima pagina.

- *Per i punti non verificati indicare **NV** nel campo “controllato e approvato” (in caso un intero capitolo non sia stato verificato è sufficiente indicarlo in corrispondenza della prima domanda).*
- *Per i punti non applicabili indicare **NA** nel campo “controllato e approvato” (in caso un intero capitolo non sia applicabile è sufficiente indicarlo in corrispondenza della prima domanda).*

Documenti di riferimento:

- *GPI: General Programme Instructions per International EPD® System*
- *Reg: Regolamento per EPDIItaly*



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LISTA DI CONTROLLO PER LA VERIFICA DELLO STUDIO LCA ED EPD DEI PRODOTTI DA COSTRUZIONE

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

LISTA DI CONTROLLO PARTE A: REQUISITI PER LE REGOLE DI CALCOLO DEL LCA E PER IL PROJECT REPORT

N.	REQUIREMENT <i>REQUISITO</i>	MANDATORY / OPTIONAL <i>OBBLIGATORIO/ OPZIONALE</i>	REFERENCE <i>RIFERIMENTI</i>	DEVIATIONS FROM REQUIREMENTS <i>SCOSTAMENTO DAL REQUISITO</i>	CHECKED AND APPROVED <i>CONTROLLATO E APPROVATO</i>
1	GENERAL INFORMATION - AVAILABILITY				
1.1	Commissioner of LCA study, LCA practitioner	M	EN15804 ch.8.2		<input type="checkbox"/>
1.2	Date of issue of LCA report	M	EN15804 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	EN15804 ch.8.2 + 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 – AVAILABILITY OF INFO				
2.1	Reasons for performing the Life Cycle Assessment	M	EN15804 ch.8.2		<input type="checkbox"/>
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	EN15804 ch.8.2		<input type="checkbox"/>
2.3	Target group (B2B, B2C, ...)	M	EN15804 ch.8.2		<input type="checkbox"/>
3	FUNCTIONAL UNIT / DECLARED UNIT – AVAILABILITY OF INFO				
3.1	Functional / Declared unit, including relevant technical specification	M	EN15804 ch.6.3.1/6.3.2 and/or applicable PCR or additional specific requirements for certain product groups		<input type="checkbox"/>
3.2	If product groups (similar products from one manufacturer and/or from different production plants) are formed as averages: a) Calculation rules for the formation of averages b) Representativeness of averages	M	EN15804 ch.8.2		<input type="checkbox"/>



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4	PRODUCT DESCRIPTION – AVAILABILITY OF INFO				
4.1	<p>Composition of the product</p> <p>Level of detail: the main components necessary to understand what type of product is concerned (detailed mass description is not necessary if confidential)</p> <p>NOTE: It should be settled before the verification how confidential information is dealt with (acc. To provisions ISO 14025)</p>	M	ISO 14025		<input type="checkbox"/>
4.2	Description of technical and functional characteristics and area of intended application in the building	M	Applicable PCR		<input type="checkbox"/>
4.3	<p>Flow diagram of main production processes and visualization of system boundaries</p> <p>Level of detail: the main components necessary to understand what type of product is concerned (detailed mass description is not necessary if confidential)</p> <p>NOTE: It should be settled before the verification how confidential information is dealt with (acc. to provisions ISO 14025)</p>	M	ISO 14025		<input type="checkbox"/>
5	SYSTEM BOUNDARIES IN ACCORDANCE WITH THE MODULAR DESIGN OF THE EN 15804				
5.1	Comprehensive declaration of modules A1 to A3 as a minimum requirement, if necessary, as an aggregated module A1-A3	M	EN15804 ch. 6.3.4		<input type="checkbox"/>
5.2	<p>A1 to A3: System boundary</p> <p>a) Clear description of what the modules cover</p> <p>b) System boundary to nature (eg forest in wood production)</p> <p>c) Use of secondary materials and secondary fuels and waste produced (check end-of-waste state)</p> <p>d) If applicable: Reference to the certificate of the offsetting of CO2</p>	<p>M</p> <p>CO2 certificates optional</p>	EN15804 ch. 6.3.4.2 and applicable PCR		<input type="checkbox"/>
5.3	<p>A1 to A3: Allocation of co-products:</p> <p>a) Specification of the "end-of-waste state"</p>	M	EN15804 ch. 6.4.3.2 + annex B.1		<input type="checkbox"/>



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	<ul style="list-style-type: none"> b) Selection of the allocation factors for co-product allocation c) Justification of specific allocation processes (e.g. if data are not available to allocate according to the EN15804 rules) d) Presentation of the energy and material flows as a result of deviating allocation processes e) No declaration of loads and benefits in Module D from allocation in A1-A3 				
5.4	A4 to A5 (optional module): Clear description and content of modules	M	EN15804 ch. 6.3.4.3 and applicable PCR		<input type="checkbox"/>
5.5	Accounting losses in the modules in which they arise (e.g. A4, transport to construction site)	M	EN15804 ch. 6.3.4.1		<input type="checkbox"/>
5.6	B1 to B5 (optional module): Delineation and content of modules	M	EN15804 ch. 6.3.4.4 and applicable PCR		<input type="checkbox"/>
5.7	B6 and B7 (optional module): Delineation and content of modules	M	EN15804 ch. 6.3.4.4 and applicable PCR		<input type="checkbox"/>
5.8	C1 to C4 (optional module): Delineation and content of modules	M	EN15804 ch. 6.3.4.5 and applicable PCR		<input type="checkbox"/>
5.9	C3 (optional module): Justification of the "end-of-waste state" <ul style="list-style-type: none"> a) Existing purpose b) Existing market or demand c) Compliance with technical requirements and legal guidelines d) Fulfills limit values for Substances of Very High Concern (SVHC) 	M	EN15804 ch. 6.3.4.5 + annex B.1 and applicable PCR		<input type="checkbox"/>
5.10	C4 (optional module): Carefully check the correct allocation	M	EN15804 ch. 6.3.4.5 and ch.6.3.4.6		<input type="checkbox"/>
5.11	D (optional module): System boundary and contents of Module justified	M	EN15804 ch. 6.3.4.6		<input type="checkbox"/>
5.12	D (optional module): Check if the net flow calculation is done correctly taking into consideration relevant factors, e.g.:	M	EN15804 ch. 6.3.4.6 and 6.4.3.3		<input type="checkbox"/>



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	a) Processing losses b) Inputs in Modules A1 to A3 (and A4 to B5 if necessary)				
5.13	D (optional module): No benefits or loads of allocated co-products	M	EN15804 ch.6.4.3.3		<input type="checkbox"/>
6	POWER MIX (E.G. ELECTRICITY)				
6.1	Selection of the power mix in accordance with the location of the production site(s)	M	CEN TR15941 and applicable PCR		<input type="checkbox"/>
6.2	If applicable: Validity of the certificates for green power	O	Applicable PCR		<input type="checkbox"/>
7	CO₂ CERTIFICATES				
7.1	If applicable: Selecting allowable certificates in accordance with the PCR	O	Applicable PCR		<input type="checkbox"/>
7.2	If applicable: Offsetting in accordance with the requirements from the individual program operators	O	Applicable PCR		<input type="checkbox"/>
8	DESCRIPTION OF THE SYSTEM BOUNDARIES				
8.1	Transparent description of the system boundaries: a) Representativeness (temporal, geographical, technological) b) Assessment period for each module considered in the Life Cycle Assessment (eg one-year average, etc) c) Omissions of life cycle stages, processes and data requests d) 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. e) Assumptions concerning other relevant background data where relevant for the system boundary	M	ISO 14040, EN15804 ch. 8.2		<input type="checkbox"/>
9	CRITERIA FOR EXCLUDING INPUTS AND OUTPUTS				
9.1	Selection of the cut-off criteria, description of application of the criteria and assumptions	M	EN15804 ch.6.3.5 and ch. 8.2 and		<input type="checkbox"/>



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			applicable PCR		
9.2	List of excluded processes available		EN15804 ch. 8.2		<input type="checkbox"/>
10	DATA COLLECTION				
10.1	Data collection, including data quality issues, according to LCA rules	M	ISO 14044:2006, section 4.3.2; Documentation ISO 14040 EN15804 6.3.6		<input type="checkbox"/>
11	DEVELOPMENT OF SCENARIOS AT PRODUCT LEVEL IN MODULES A4-A5- B-C-D				
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	EN15804 ch. 6.3.8 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"/>
12	SELECTING DATA / BACKGROUND DATA				
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, EcolInvent, Okobau.dat, ILCD, ... [to be extended by Program Operators])	M	EN15804 ch.6.3.6 EN 15941 and applicable PCR	If verified EPD to the same PCR are available, where applicable, they should be used instead of generic data from background databases	<input type="checkbox"/>
12.2	a) < 10 years for background data b) < 5 years for manufacturer's data c) Data manufacturer based on 1-year average d) Time period of 100 years in case of a landfill scenario, longer if relevant e) Technical background complies with physical reality f) Integrity of generic data records, system limit and cut-off criteria for generic data records validity demonstrated	M	EN15804 ch. 6.3.7 EN15941 and applicable PCR		<input type="checkbox"/>
12.3	Documentation on data / background data:	M	EN15941 and applicable PCR		<input type="checkbox"/>



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	a) Name of the (background) data record, its source (data base, literary source etc.), year of data collection and its representativeness b) Handling missing data c) Assessing data quality				
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			<input type="checkbox"/>
13 ALLOCATIONS					
13.1	General allocation principles applied (avoidance of allocation, no double counting / omissions, uniform application of the allocation rules etc.)	M	ISO14044: 2006 4.3.4		<input type="checkbox"/>
13.2	Presentation and justification of allocations in the use of secondary materials or secondary fuels as raw materials	M	EN15804 ch.6.4.3 and 8.2 and applicable PCR		<input type="checkbox"/>
13.3	Presentation and justification of allocations in the plant (delineation from other products in a plant)	M			<input type="checkbox"/>
13.4	If applicable: Presentation and justification of allocation of multi- input processes (e.g. landfilling or incineration)	M			<input type="checkbox"/>
13.5	Co-product allocation correctly applied, see also 5.3	M	EN15804 ch. 6.4.3.2		<input type="checkbox"/>
13.6	Documentation of allocation factors used and their (independent) sources	M			<input type="checkbox"/>
13.7	Allocation process for reuse, recycling and recovery, check specifically: <ul style="list-style-type: none"> a) Consistency with other scenarios of waste management b) Conventional average technologies and practices c) Specification and justification of end-of- waste state where 	M	EN15804 ch.6.4.3.3 and applicable PCR		<input type="checkbox"/>



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	<p>applicable</p> <p>d) If applicable (module D): Selecting substituted processes in accordance with the PCR or (if no PCR is available) representative actual processes</p> <p>e) If applicable (substitution in Module D): Calculation of net flows</p> <p>f) Conservative approach, i.e. choice of those scenarios and calculation rules that reflect the highest environmental impacts in comparison to other choices</p>				
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		<input type="checkbox"/>
14	LIFE CYCLE MODELING INFORMATION				
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		<input type="checkbox"/>
14.2	Clear description how company data are used in which data records in Life Cycle Assessment software programs	M	EN15804 ch.8.4		<input type="checkbox"/>
14.3	Assignment of process data to the Life Cycle Assessment modules	M	EN15804 ch.8.4		<input type="checkbox"/>
14.4	For several locations/products: Presentation of modeling of all locations and products as well as weighting thereof	M			<input type="checkbox"/>
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 CO2 emissions coherent with the mass of fossil energetic resources / check of the sum of non-renewable and renewable parts or	M	EN15804 ch.8.4		<input type="checkbox"/>



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	between feedstock and fuel parts / Is the energy indicators coherent with the energetic resources used?				
15	PARAMETERS OF THE LIFE CYCLE INVENTORY ANALYSIS AND LIFE CYCLE IMPACT ASSESSMENT				
15.1	Presentation of the parameters in tabular form for all modules A1 to D Marking unassessed modules as "MNA" (= module not assessed)	M	EN15804 ch..7.2.2 EN15978 ch.12.5		<input type="checkbox"/>
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	EN15804 ch. 6.5, 7.2.3 – 7.2.5		<input type="checkbox"/>
15.3	Selection of correct characterisation factors and elimination of long-term emissions (> 100 years)	M	EN15804 ch.8.2 and annex (amendment) and applicable PCR		<input type="checkbox"/>
15.4	Justification of characterisation factors applied in case of input/output flows that are not on the list of characterisation factors of the EN15804 and applicable PCR	M			<input type="checkbox"/>
15.5	Information on the environmental impacts in the project report: 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	EN15804 ch.8.2		<input type="checkbox"/>
16	INTERPRETATION				
16.1	Interpretation of the results based on a dominance/contribution analysis of selected indicators	O			<input type="checkbox"/>
16.2	Relationship between the results of the Life Cycle Inventory Assessment and the results of the Life Cycle Impact Assessment (LCIA)	M	EN15804 ch.8.2		<input type="checkbox"/>
16.3	Assumptions and restrictions as regards the interpretation of results in the EPD, in terms of	M	EN15804 ch.8.2		<input type="checkbox"/>



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	both methods and data				
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	EN15804 ch.8.2		<input type="checkbox"/>
16.5	Data quality assessment	M	EN 15804 ch.8.2; ISO 14040; CEN TR15941; Applicable PCR		<input type="checkbox"/>
16.6	Comprehensive transparency as regards value decisions, justifications and expert opinions	M	EN15804 ch.8.2		<input type="checkbox"/>
17	DOCUMENTATION OF ADDITIONAL INFORMATION				
17.1	Where relevant to 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 Life Cycle Assessment and applied for evaluation of the building (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	EN15804 ch.8.3		<input type="checkbox"/>
17.2	Where relevant: ensure that information additional to EN15804 is verified				<input type="checkbox"/>
18	DOCUMENTATION FOR CALCULATING THE REFERENCE SERVICE LIFE (RSL)				
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	EN15804 ch.6.3.3		<input type="checkbox"/>



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VERIFICATION CHECKLIST PART B: REQUIREMENTS ON THE EPD

LISTA DI CONTROLLO PARTE B: REQUISITI SU EPD

N.	REQUIREMENT REQUISITI	REFERENCE RIFERIMENTI	DEVIATIONS FROM REQUIREMENTS SCOSTAMENTI DAL REQUISITO	CHECKED AND APPROVED CONTROLLATO E APPROVATO
1	FORMAL REQUIREMENTS			
1.1	General, EPD includes: <ul style="list-style-type: none"> a) text "Environmental Product Declaration in accordance with ISO 14025 and EN 15804" b) Statement that "EPD of construction products may not be comparable if they do not comply with EN15804" c) Publisher / program operator, name, address d) Name of declared product e) Declaration owner / Name and address of manufacturer/association Representativeness of geographical area f) Representativeness with regard to which manufacturer(s) g) Program logo and website h) Date of issue + validity (5 years) i) Variability for average declaration j) Product composition k) Stages omitted, if not full LCA 	EN15804 ch. 7.1		<input type="checkbox"/>
1.2	PCR name PCR version (MM YYYY)	Applicable PCR		<input type="checkbox"/>
1.3	Demonstration of verification: external ⁹ independent verification, name of third party verifier	EN15804 ch.7.1 Table 2		<input type="checkbox"/>
1.4	Information on the validity corresponds with the specifications in the project report			<input type="checkbox"/>
2	PRODUCT			
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			<input type="checkbox"/>



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	declared			<input type="checkbox"/>
2.2	If applicable: Explanations on calculations of averages within a product group	EN15804 ch. 7.1		<input type="checkbox"/>
2.3	Specification / identification (picture, name, model)	EN15804 ch.7.1		<input type="checkbox"/>
2.4	Indication of the intended use	EN15804 ch.7.1		<input type="checkbox"/>
2.5	Relevant technical data (additional information is possible) including RSL if applicable			<input type="checkbox"/>
2.6	The test standards to which the technical data are referred to.			<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 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	EN15804 ch.7.1		<input type="checkbox"/>
2.8	Description of the manufacturing process / all manufacturing processes if several locations are involved	EN15804 ch. 7.1		<input type="checkbox"/>
3	LCA RULES			
3.1	Information on the declared / functional unit corresponds with the specifications of the PCR (if available)	Applicable PCR		<input type="checkbox"/>
3.2	Indication of the EPD type (cradle-to- gate, cradle-to- gate with options, cradle- to-grave)	EN15804 ch. 7.2.2		<input type="checkbox"/>
3.3	EPD contains a (simple) flow diagram in accordance with the modular approach	EN15804 ch. 7.2.1		<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			<input type="checkbox"/>
3.5	Indication of the key assumptions and estimates for interpretation which are not depicted elsewhere in the EPD			<input type="checkbox"/>



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3.6	Presentation of the application of cut-off criteria in accordance with the project report			<input type="checkbox"/>
3.7	Source of background data used			<input type="checkbox"/>
3.8	Indication of the age of background data used			<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			<input type="checkbox"/>
4	LCA: SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION			
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.	EN15804 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	EN15804 ch.7.3.3.2		<input type="checkbox"/>
5	LCA: RESULTS			
5.1	Description of the declared / functional unit			<input type="checkbox"/>
5.2	Identification of the declared/undeclared modules MNA = module not assessed			<input type="checkbox"/>
5.3	Full declaration of all indicators required according to the modular approach INA = indicator not assessed	EN15804 ch.7.2.3, 7.2.4, 7.2.5 and ch.7.5		<input type="checkbox"/>
5.4	Compliance of the declared values with the information in the project report			<input type="checkbox"/>
5.5	In case of product averages: description of the range / variability of the LCIA results	EN15804 ch.7		<input type="checkbox"/>
5.6	Deletion of module columns which are not declared (permissible for the <i>Results part</i>) if program allows	Program operator rules		<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			<input type="checkbox"/>



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LISTA DI CONTROLLO PER LA VERIFICA DELLO STUDIO LCA ED EPD DEI PRODOTTI DA COSTRUZIONE

N.	REQUIREMENT <i>REQUISITI</i>	REFERENCE <i>RIFERIMENTI</i>	DEVIATIONS FROM REQUIREMENTS <i>SCOSTAMENTI DAL REQUISITO</i>	CHECKED AND APPROVED <i>CONTROLLATO E APPROVATO</i>
6	EVIDENCE FOR TESTS OR CERTIFICATES			
6.1	Additional information is provided to indoor air or soil/water, if applicable	EN15804 ch.7.4		<input type="checkbox"/>
6.2	Declaration of the relevant evidence. Information where to find this evidence	EN15804 ch.7.2 and applicable PCR, existing program rules		<input type="checkbox"/>
7	REFERENCES			
7.1	Full indication of all referenced sources (excluding standards already quoted in full and standards concerning evidence)			<input type="checkbox"/>



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VERIFICATION CHECKLIST PART C: REQUIREMENTS FOR OTHER STANDARDS AND REFERENCES

LISTA DI CONTROLLO PARTE C: REQUISITI SECONDO ALTRI STANDARD E DOCUMENTI DI RIFERIMENTO

N.	REQUIREMENT <i>REQUISITI</i>	REFERENCE <i>REFERENZE</i>	CHECKED AND APPROVED <i>CONTROLLATO E APPROVATO</i>
1	OTHER STANDARDS AND REFERENCES		
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+A1:2013	EN15804:2012+A1:2013	<input type="checkbox"/>
1.4	Compliance with other requirements in General Programme Instructions in the International EPD® System	General Programme Instruction	<input type="checkbox"/>
1.5	Compliance with other requirements in referenced Product Category Rules (PCR) available at www.environdec.com	Applicable PCR	<input type="checkbox"/>
1.6	Compliance with other requirements in EPDIItaly Regulament (Annex 1)	EPDIItaly Regulament	<input type="checkbox"/>
1.7	Compliance with other requirements in referenced Product Category Rules (PCR) available at www.epditaly.com	Applicable PCR	<input type="checkbox"/>



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VERIFICATION CHECKLIST PART D: ADDITIONAL REQUIREMENT FOR EPD ENVIRONMENTAL ADDITIONAL INFORMATION

LISTA DI CONTROLLO PARTE D: REQUISITI ADDIZIONALI PER EPD CONTENENTI PARAMETRI AMBIENTALI ADDITIVI

N.	REQUIREMENT <i>REQUISITO</i>	REFERENCE <i>RIFERIMENTO</i>	DEVIATIONS FROM REQUIREMENTS <i>SCOSTAMENTO DAL REQUISITO</i>	CHECKED AND APPROVED <i>CONTROLLATO E APPROVATO</i>
1	GENERAL REQUIREMENT <i>Requisiti generali</i>			
1.1	<p>I parametri ambientali additivi sono riportati in una sezione del documento EPD, chiaramente distinta rispetto a quella contenente gli indicatori d'impatto ambientale derivanti dallo studio LCA?</p> <p><i>Are the additive environmental parameters listed in a section of the EPD document, clearly distinct from the one containing the environmental impact regulations deriving from the LCA study?</i></p>			<input type="checkbox"/>
1.2	<p>I parametri ambientali additivi sono espressi in conformità a quanto previsto dalla norma UNI EN ISO 14021?</p> <p><i>Are the additional environmental parameters expressed in compliance with the UNI EN ISO 14021 standard?</i></p>			<input type="checkbox"/>
1.3	<p>Il produttore ha fornito delle evidenze a supporto dei valori dichiarati dei parametri ambientali additivi indicati?</p> <p><i>Has the manufacturer provided evidence to support the declared values of the additional environmental parameters?</i></p>			<input type="checkbox"/>
2	SPECIFIC ENVIRONMENTAL LAW REQUIREMENT FOR RECYCLED/RECOVER/CO-PRODUCT (CAM EDILIZIA – DM 11/10/2018) <i>Requisiti specifici di conformità legislativa per riciclato/recuperato/sottoprodotto (CAM Edilizia – DM 11/10/2018)</i>			
2.1	<p>L'azienda è certificata secondo un sistema di gestione ambientale conforme alla norma ISO 14001 da soggetto di parte terza accreditato, comprensiva dell'unità produttiva cui si riferisce l'EPD?</p> <p>NOTA: In caso di risposta affermativa non è necessario eseguire le verifiche dei restanti punti di questa sezione.</p> <p><i>Is the Company certified in ISO 14001 standard by an accredited Certification Body?</i> <i>If yes, you don't have to continue</i></p>			<input type="checkbox"/>



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2.2	<p>I materiali in ingresso al processo produttivo sono chiaramente classificati come: materia prima vergine, rifiuto, materia prima contenente materiale riciclato, materia prima contenente materiale recuperato, sottoprodotto, terre e rocce da scavo?</p> <p><i>Are the raw materials classified as: virgin raw material, waste, raw material containing recycled material, raw material containing recovered material, by-product, excavated earth and rocks?</i></p>			<input type="checkbox"/>
2.3	<p>Nel caso in cui il produttore impieghi dei rifiuti (prodotti esternamente o internamente all'azienda) l'organizzazione rispetta tutti i requisiti cogenti in materia di recupero dei rifiuti (ad esempio l'autorizzazione al recupero di rifiuti, prescrizioni contenute nell'autorizzazione, prescrizioni legislative, applicazione del SISTRI, corretta tenuta del registro di carico/scarico, corretta compilazione dei formulari di identificazione dei rifiuti, corretto stoccaggio rifiuti ritirati, corretta compilazione del MUD)?</p> <p><i>In the event that the manufacturer uses waste (produced externally or internally to the company), does the organization comply with all mandatory waste recovery requirements (for example, the authorization to recover waste, the provisions contained in the authorization, legislative requirements, SISTRI application, correct compilation of the waste identification forms, correct storage of collected waste, correct compilation of the MUD)?</i></p>			<input type="checkbox"/>
2.4	<p>Nel caso in cui il produttore impieghi dei sottoprodotti (prodotti internamente all'azienda) vi sono evidenze in merito alla qualifica del materiale nel rispetto di quanto previsto dal dlgs 152/06?</p> <p><i>In the event that the manufacturer uses by-products (produced within the company) is there evidence regarding the qualification of the material in compliance with the requirements of Legislative Decree 152/06?</i></p>			<input type="checkbox"/>
2.5	<p>Nel caso in cui il produttore acquisisca da un fornitore della materia prima contenente materiale riciclato, sono state richieste evidenze a garanzia del valore dichiarato dal fornitore stesso (ad esempio: EPD, certificazione id prodotto del contenuto di riciclato, asserzione ambientale autodichiarata conforme alla norma 14021 convalidato o meno da un soggetto terzo)?</p> <p><i>In the event that the manufacturer acquires from a supplier of the raw material containing recycled material, has been requested evidence to guarantee the value declared by the supplier itself (for example: EPD, product certification of the recycled content, self-declared environmental statement compliant with ISO 14021 validated or not by a third party)?</i></p>			<input type="checkbox"/>
2.6	<p>Nel caso in cui il produttore acquisisca da un fornitore della materia prima contenente materiale recuperato, sono state richieste evidenze a garanzia del valore dichiarato dal fornitore stesso (ad esempio: EPD, certificazione id prodotto del contenuto di riciclato, asserzione ambientale autodichiarata conforme alla norma 14021 convalidato o meno da un soggetto terzo)?</p> <p><i>In the event that the manufacturer acquires from a supplier of the raw material containing recovered material, has been requested evidence to guarantee the value declared by the</i></p>			<input type="checkbox"/>



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	<p><i>supplier itself (for example: EPD, product id certification of the recycled content, self-declared environmental statement compliant with standard 14021 validated or not by a third party)?</i></p>			
2.7	<p>Nel caso in cui il produttore acquisisca da un fornitore dei sottoprodotti (prodotti esternamente all'azienda) vi sono evidenze in merito alla qualifica del materiale nel rispetto di quanto previsto dal dlgs 152/06?</p> <p><i>In the event that the manufacturer acquires from a supplier of by-products (produced outside the company) is there evidence regarding the qualification of the material in compliance with the requirements of Legislative Decree 152/06?</i></p>			□
2.8	<p>Nel caso in cui il produttore acquisisca da un fornitore delle terre e rocce da scavo (prodotte esternamente all'azienda) vi sono evidenze in merito a:</p> <ul style="list-style-type: none"> • presenza del piano di utilizzo (ai sensi dell'art 9 del DPR n 120 del 13/06/2017), o la dichiarazione di utilizzo (ai sensi dell'art 9 del DPR n 120 del 13/06/2017) dalla quale si evince la classificazione del materiale come sottoprodotto • rispetto delle modalità di deposito delle terre e rocce da scavo, relativamente all'aspetto fisico ed alla cartellonistica • rispetto dei tempi e delle modalità di utilizzo del materiale • per i materiali già completamente utilizzati, presenza della dichiarazione di avvenuto utilizzo <p><i>In the event that the manufacturer purchases excavated earth and rocks (produced outside the company) from a supplier, is there evidence regarding:</i></p> <ul style="list-style-type: none"> • presence of the utilization plan (compliant to art. 9 of DPR n 120 of 13/06/2017), or the declaration of use (compliant to art 9 of DPR n 120 of 13/06/2017) from which the classification of the material as a by-product is shown • respect for the methods of deposit of excavated earth and rocks, with regard to physical appearance and signs • compliance with the times and methods of use of the material • for materials already completely used, presence of the declaration of use 			□
3	OTHER SPECIFIC REQUIREMENT FOR RECYCLED/RECOVER/CO-PRODUCT (CAM EDILIZIA – DM 11/10/2018) Requisiti specifici di conformità legislativa per riciclato/recuperato/sottoprodotto (CAM Edilizia – DM 11/10/2018)			
3.1	<p>È stato seguito un bilancio di massa dei materiali in ingresso al processo produttivo, considerando nella determinazione del contenuto di riciclato/recuperato/sottoprodotto nel prodotto finito la sola massa secca del suddetto materiale, decurtando la percentuale di umidità?</p>			□



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	<p><i>Is there a mass balance of the materials entering the production process, considering only the dry mass of the material in the determination of the recycled / recovered / by-product content in the finished product, reducing the percentage of humidity?</i></p>			
3.2	<p>Il fabbricante ha considerato le eventuali perdite di processo (ad esempio perdita al fuoco) durante il processo produttivo per la definizione del contenuto di riciclato/recuperato/sottoprodotto nel prodotto finito?</p> <p><i>Has the manufacturer considered any process losses during the production process for the definition of the recycled / recovered / by-product content in the finished product?</i></p>			□
3.3	<p>La formula applicata per il calcolo del contenuto è la seguente?</p> <p>$X = (A / P) \times 100$</p> <p>A = peso del materiale secco riciclato/recuperato/sottoprodotto contenuto nel prodotto finito P = peso del prodotto finito</p> <p><i>Is the formula applied for calculating:</i></p> <p>$X = (A / P) \times 100$</p> <p><i>A = weight of the recycled / recovered / by-product dry material contained in the finished product</i> <i>P = weight of the finished product</i></p>			□
3.4	<p>Lo strumento di calcolo (o foglio di calcolo) utilizzato per la determinazione delle percentuali è codificato?</p> <p><i>Is the calculation tool (or spreadsheet) used for determining percentages coded?</i></p>			□
3.5	<p>C'è piena coerenza tra valori del contenuto di riciclato/recuperato/sottoprodotto dichiarati dal produttore nell'EPD e i valori calcolati sulla base delle evidenze prodotte?</p> <p><i>Is there full consistency between the recycled / recovered / by-product content values declared by the manufacturer in the EPD and the values calculated on the basis of the produced evidence?</i></p>			□



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VERIFICATION STATEMENT

DICHIARAZIONE DEL VERIFICATORE

The verifier confirms, following detailed examination, he has not established any relevant deviations by the above referenced Environmental Product Declaration (EPD) and its project report, in terms of:

- the date 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, EN 15804 (only for construction product), the General Programme Instruction and the Product Category Rules of the Program Operator.

The company-specific data have been examined as regards plausibility and consistency. The declaration owner is 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 the above Program Operator.

Il verificatore conferma che, a seguito di un esame dettagliato, non ha riscontrato alcun rilevante scostamento della Dichiarazione Ambientale di Prodotto (EPD) di riferimento sopraindicata e del suo report di progetto, in termini di:

- *dati impiegati per lo studio LCA;*
- *modalità di calcolo impiegate nello studio LCA in conformità alle PCR di riferimento*
- *modalità di presentazione delle performance ambientali nella EPD*
- *altre informazioni ambientali incluse nella EPD (se presenti)*

nel rispetto dei requisiti metodologici e procedurali presenti nella ISO 14020, ISO 14025, EN 15804 (solo per prodotti da costruzione), nel General Programme Instruction e nelle Product Category Rules del Program Operator.

I dati dell'azienda sono stati esaminati per quanto riguarda la coerenza e la consistenza. Il proprietario della dichiarazione è il responsabile della sua integrità di fatto. La relazione di progetto sulla valutazione del ciclo di vita e la relazione sulle caratteristiche ambientali rilevanti, sono depositati presso il sopracitato Program Operator.

Place and date

Luogo e Data

Inspector (Name and signature)

Ispettore (nome e firma)