# PCR Guidance-Texts for Building-Related Products and Services

From the range of Environmental Product Declarations of Institute Construction and Environment e.V. (IBU)

# Part B: Requirements on the EPD for Textile covered acoustic frame systems

Institut Bauen und Umwelt e.V.

www.ibu-epd.com



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#### Scope

This document contains the **Requirements on an Environmental Product Declaration (EPD)** from the range of Environmental Product Declarations published by Institut Bauen und Umwelt e.V. (IBU) based on the /EN 15804/ standard. The document applies for:

Textile covered acoustic frame systems for use as wall covering or suspended ceiling (EN-13964) including any acoustic padding and fitting system.

The requirements on the EPD include:

- Requirements on the /EN 15804/ standard as a European core EPD,
- Complementary requirements on IBU EPD

The calculation rules for the Life Cycle Assessment and Requirements on the Background Report are specified in a separate document as Part A of the Product Category Rules.

The general principles for the EPD range of Institut Bauen und Umwelt e.V. (IBU) also apply.

#### Notes on use of the format template

**Insert text:** Content requirements are shown in blue color under the respective titles. These colored texts can be edited by clicking. In the appearing text editor, the content requirements are outlined above for further assistance. The relevant text can be entered below. After confirming the input, texts are incorporated into the document and displayed.

**Inserting images:** Using the text editor "broad" and "small" pictures may be added. If you click on the respective button in the editor you can select the image file and upload it. After loading, the figure is shown in the text editor and can be changed in size by clicking and pulling the edges.

**Technical tables:** Click on the table, to open the table editor. Insert your values (= numbers) in the respective field in the column "Value". For each row you can choose between 3 value types: value (= number), range (= consisting of two numbers separated with a hyphen) and a free text (eg "test passed after 3 days"). On the far left you can hide not relevant rows by clicking on the check. Click the button "add new property" to generate a new row with free text space. It is not allowed to insert a picture instead of a table!

**Chapter 5, "Results of the LCA':** click on the first table "system boundaries" and select in the following dialog all life stages you want to declare. Then the following three tables are adjusted according to your entries. Now you can insert numerical values by clicking on the tables. The numerical values are to be indicated with three significant digits. To achieve an optimal representation may be the "exponential view" can be selected depending on impact indicator.

Storing is done fully automatic.

The first three pages of the document will be deleted automatically after creation of the EPD.

**Labeled sample texts** are proposals to facilitate the creation of an EPD. If they are accepted into an EPD, they should be checked for their accuracy and if necessary adapted product-specific.

#### Requirements on content and format:

The chapters of the EPDs must be described in a compact form, as well as factually and technically 100% correct. Judgmental, comparative, or promotional texts are not permitted unless specifically requested in the PCR or if necessary in the context of the EPD. Each document is carefully checked before publication.

**Extent of an EPD:** An EPD may contain due to technical reasons, a maximum of one data set. This means that the tables for the LCA results are available only once per EPD. All four tables of the LCA results (Chapter 5) must be located entirely on one side.

#### An EPD should not exceed 8 pages.

**Quotations** should be indicated with a slash, for example: /EN 15 804/. The literature cited is to be shown completely in the references (Chapter 8).

### Product-group-specific LCA calculation rules from PCR part A

No product-group-specific LCA calculation rules existing.

### **ENVIRONMENTAL PRODUCT DECLARATION**

as per /ISO 14025/ and /EN 15804/

Owner of the Declaration

Programme holder

**Publisher** 

Declaration number

ECO EPD Ref. No.

Issue date

Valid to

Institut Bauen und Umwelt e.V. (IBU) Institut Bauen und Umwelt e.V. (IBU)

Name of declared product

Name of manufacturer/association



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### Large picture of the product

#### Maximum file size 4 MB!

Recommended picture size: width 1000 pixel, height 650 pixel

<u>Note:</u> if the size of the image does not correspond to the dimensions given, the image is may shown distorted.

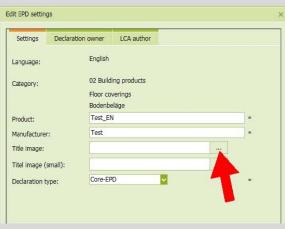
## Small picture max. 4 MB

Small picture size:

 $w \times h = 400 \times 400 \text{ pixel}$ 

<u>Insert the picture:</u> Click on the right side of your screen "Edit Properties" and enter the location of the image on your PC.





#### **General Information**

#### Name of the manufacturer Name of the product Programme holder Owner of the Declaration IBU - Institut Bauen und Umwelt e.V. Name of the manufacturer Panoramastr. 1 Street 10178 Berlin Postal Code/City Germany **Declaration number** Declared product / Declared unit Name of declared product / declared unit This Declaration is based on the Product Scope: **Category Rules:** The products, plants and their locations on which data the Life Cycle Assessment is based and for which the Name of PCR, MM-JJJJ Declaration applies must be outlined. (PCR tested and approved by the SVR) For average EPDs, an estimate of the robustness of the LCA values must be made, e.g. concerning Issue date variability of the production process, geographical representatively and the influence of background data Valid to preliminary products compared to the environmental impacts caused by actual production. For average EPDs, e.g. association EPDs, the plants/companies under review on whose data the LCA is based must be named; as an alternative, the representatively of the declaration can be depicted, e.g. for the association, by declaring the production volume covered by the LCA as a percentage of the entire volume of the declared product manufactured by all association members in the year of reference. The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences. Verification [Unterschrift] The CEN Norm /EN 15804/ serves as the core PCR Independent verification of the declaration according to /ISO 14025/ Prof. Dr.-Ing. Horst J. Bossenmayer internally externally (President of Institut Bauen und Umwelt e.V.) [Unterschrift] [Unterschrift] Dr.-Ing. Burkhart Lehmann Name of verifier (Managing Director IBU) (Independent verifier appointed by SVR)

#### **Product**

#### **Product description / Product definition**

The declared products must be described. In addition to a general product description, the trade names of the products / product groups (including any product codes) to which the EPD applies must be mentioned.

If the mention of trade names is e.g. In the context of association EPDs not meaningfully possible, the product description must clearly demarcate the products / product groups to which the EPD applies.

#### Example:

As a general rule, the textile covered acoustic frame system serves as a sound control system, and adds to the aesthetic design of interior walls and ceilings.

The system is based on the following principles:

The front textile membrane is attached to a specially designed frame profile with an integrated tensioning system, which is then positioned as a panel on the wall or in the ceiling using various types of fitting systems such as for example magnets, wires (for suspended ceilings), while hinges can also be used if regular subsequent access behind the panel is desired. As part of the frame system different additional components or layers are used depending on the required acoustic and visual performance. For example, the frames may contain porous materials

to improve sound absorption or hard plates to serve as sound reflectors and may or may not include airspace and/or additional back textiles.

Frame systems come in customized sizes and can be combined to cover a given surface area.

#### LOGO

Product definition (Please select one of the following options):

## /Alternative 1a: Product according to the CPR based on a hEN/:

For the placing on the market of the product in the EU/EFTA (with the exception of Switzerland) Regulation (EU) No. 305/2011 (CPR) applies. The product needs a Declaration of Performance taking into consideration /EN xyz,date, title/ and the CEmarking.

For the application and use the respective national provisions apply.

### /Alternative 1b: Products according to the CPR based on an ETA/.

For the placing of the product on the market in the EU/EFTA (with the exception of Switzerland) the Regulation (EU) No. 305/2011 (CPR) applies. The product needs a Declaration of Performance taking into consideration /ETA.xyz,date, title/ and the CEmarking.

For the application and use the respective national provisions apply.

## /Alternative 2a: Product not harmonised in accordance with the CPR but in accordance with other harmonisation provisions of the EU/:

For the placing on the market in the EU/EFTA (with the exception of Switzerland) the following legal provisions apply:

/Directive No. xyz, date, title / /Regulation No.xyz, date, title/

and the harmonised norms based on these provisions:. /EN xyz, date, title/

The CE-marking takes into account the proof of conformity with the respective harmonized norms based on the legal provisions above.

For the application and use the respective national provisions apply.

## /Alternative 2b: Product harmonized as well in accordance with the CPR as with other harmonisation provisions of the EU/:

For the placing of the product on the market in the EU/EFTA (with the exception of Switzerland) the Regulation (EU) No. 305/2011/ (CPR) and the following other harmonisation provisions apply: /Directive (EU) xyz, date, titel/ or /Regulation (EU) No. xyz, date, title/ respectively. The product needs a Declaration of Performance in accordance with the CPR taking into consideration /EN xyz: date, title/ or /ETA No. xyz, date, title/ respectively, and the CE-marking.

The CE-marking for the product takes into account the Declaration of Performance in accordance with the CPR and the proof of conformity with the following harmonised norms based on the other harmonisation provisions.

...../

For the application and use the respective national provisions apply.

## /Alternative 3: Product for which no legal harmonization provisions of the EU exist/

For the use and application of the product the respective national provisions at the place of use apply, in Germany for example the Building Codes of the countries and the corresponding national specifications.

#### 2.2 Application

The designated application for the products referred to must be specified

#### 2.3 Technical Data

The technical specifications of the products that are within the scope of the EPD are to name with reference to the individual assessment rules (for example, standards).

For products with CE marking, in particular the performances must be specified in accordance with the performance declaration.

#### Constructional data

Name	Value	Unit
Sound absorption coefficient cf. ISO-		
354		-
Dimensions max. (I x w x h)		mm
Fire performance cf. EN-13501-1		-
Dimensions min. (I x w x h)		mm

## (Please select one of the following options): /Alternative 1a:Product according to the CPR, based on a hEN/:

- Performance data of the product in accordance with the Declaration of Performance with respect to its Essential Characteristics according to /EN xyz date, title/
- Voluntary data: /source, date, title/ ((Not part of CE-marking)).

## /Alternative 1b: Product according tot he CPR, based on an ETA /:

- Performance data of the product in accordance with the Declaration of Performance with respect to its Essential Characteristics according to /ETA xyz No., date, title/
- Voluntary data: /source, date, title/ ((Not part of CE-marking)).

## /Alternative 2a: Product not harmonised in accordance with the CPR but in accordance with other harmonisation provisions of the EU/:

- Performance data of the product according to the harmonised norms, based on the harmonisation provisions.
- Voluntary data: /source, date, title/ ((Not part of CE-marking)).

## /Alternative 2b : Product harmonized as well in accordance with the CPR as with other legal provisions of the EU/:

- Performance data of the product in accordance with the Declaration of Performance with respect to its Essential Chacteristics according to /EN xyz, date,, title/ or /ETA xyz, No., date, title/ respectively.
- Performance data of the product, based on the harmonised norms, in accordance with the other lharmonisation provisions
- Voluntary data: /source, date, title/ ((Not part of CE-marking)).

## /Alternative 3: Product for which no legal harmonization provisions of the EU exist/:

Performance data of the product with respect to its characteristics in accordance with the relevant technical provision ((No CE-marking)).

#### 2.4 Delivery status

The dimensions/quantities of products declared must be indicated in the delivery status.

#### 2.5 Base materials / Ancillary materials

The primary product components and/or materials must be indicated as a percentage mass to enable the user of the EPD to understand the composition of the product in delivery status. The primary product components and/or substances must be indicated as a percentage by mass enabling the EPD user to understand the composition of the product on delivery. These details should also support safety and efficiency during installation as well as use and disposal of the product.

The declaration of the material product content must at least include a statement concerning the substances contained in the product which are listed in the "Candidate List of Substances of Very High Concern for Authorisation" (SVHC), whereby the last amendment date of the candidate list must be indicated to which the declaration refers.

If the construction product is a substance or mixture under chemical law, the concentration limit value refers to the entire product; if it is a product, the partial product applies as a unit of reference. Insofar as the construction product is a mixture, the safety data sheet must be made available with the EPD (e.g. as a reference) and any SVHC and their concentrations must be indicated in the EPD.

This declaration must be formulated as follows: "Contains substances on the candidate list (date: dd.mm.yyyy) exceeding 0.1 percentage by mass in at least one partial product: yes/no"

[If yes:] - Information on the concentration and/or concentration range (analogue to the information on a safety data sheet), information on hazardous properties and poss. information on the partial product in the case of products..

CMR substances in categories 1A and 1B must also be indicated if a European harmonised classification is available as well as information on treatment with biocides

This statement on other CMR substances which are not listed as SVHC and biocides must be formulated as follows:

"Contains other CMR substances in categories 1A or 1B which are not on the candidate list, exceeding 0.1 percentage by mass in at least one partial product: yes/no"

[If yes:] - Information on the concentration and/or concentration range (analogue to the information on a safety data sheet), information on hazardous properties and poss. information on the partial product in the case of products

"Biocide products were added to this construction product or it has been treated with biocide products (this then concerns a treated product as defined by the (EU) Ordinance on Biocide Products No. 528/2012): yes/no"

[If yes:] - List of the SVHC, other CMR substances, biocides referred to above

[If yes:] - The active substance and the product type (in-can preservative, film preservative, wood protection etc. according to the Ordinance on Biocide Products (see also 1.4) must be indicated.

Ancillary materials and additives remaining on the product must also be declared.

If additives such as fire retardants, softeners or biocides are used, their functional chemical group must be indicated.

#### 2.6 Manufacture

The manufacturing process must be described and can be illustrated using a simple graphic. If the EPD applies for several locations, the production processes for all locations must be described.

Quality management systems can be referred to.

### 2.7 Environment and health during manufacturing

Presentation of measures relating to health protection during the manufacturing process extending beyond national guidelines (of the production country). Presentation of measures relating to environmental protection during the manufacturing process extending beyond national guidelines or plant-specific requirements, e.g. description of special environmentally-friendly dealings with waste air, waste water and waste as well as noise emissions. Information on the Environment Management System or similar (if available).

#### 2.8 Product processing/Installation

Description of the type of processing, machinery, tools, dust extraction etc. to be used and auxiliary materials as well as measures for reducing noise Information on the rules of technology and industrial and environmental protection is possible.

#### 2.9 Packaging

Information on product-specific packaging: type, composition and possible reuse of packaging materials (paper, pallets, foils etc.).

#### 2.10 Condition of use

Information should be provided here as regards the special features of contents for the period of use.

#### 2.11 Environment and health during use

Information on the relationships between products, the environment and health; possible content of harmful substances or emissions.

Any recommendations concerning cleaning, maintenance etc. of the declared product should be listed in the corresponding section in 4 "Technical information on scenarios".

#### 2.12 Reference service life

The indication of the reference service life (RSL) is imperative for EPDs covering the complete use stage (modules B1-B7), or if a use stage scenario is described, which refers to the lifetime of the product. If not all modules of the use stage are being declared, and no use stage scenario which refers to the lifetime of the product is being described, the indication of the RSL (according to /ISO 15686:1, -2, -7 and -8/) is voluntary.

The RSL must refer to the declared technical and functional quality of the product. It must be established in line with all of the specific rules in the European product standards and must also take consideration of the /ISO 15686:1, -2, -7 and -8/ standards. Where information is available for deriving the RSL from European product standards, such data has priority.

The assumptions on which determination of the reference service life is based and for which the reference service life exclusively applies are provided in section "LCA: Scenarios and additional technical information". If no RSL in accordance with /ISO 15686/



has been declared, the assumptions for the life time have to be described.

Influences on ageing when applied in accordance with the rules of technology

#### 2.13 Extraordinary effects

#### Fire

.Information on fire performance according to /EN 13501:1/ or established national standards. According to /EN 13501/ - the classification of building products is set to A1, A2, B, C, D, E and F; flaming droplets / particles is set to d0, d1 or d2, and the smoke density is set to s1, s2, or s3.

#### Water

Information on product performance including possible impacts on the environment following unforeseeable influence of water, e.g. flooding.

#### **Mechanical destruction**

If relevant: Information on product performance including possible impacts on the environment following unforeseeable mechanical destruction.

#### 2.14 Re-use phase

The possibilities of re-use, recycling and energy recovery must be described.

#### 2.15 Disposal

The possible disposal channels must be indicated. The waste code in accordance with the European Waste Index must be indicated.

#### 2.16 Further information

Optional details, indication of reference source for additional information, e.g. homepage, reference source for safety data sheet.

#### 3. LCA: Calculation rules

#### 3.1 Declared Unit

The declared unit, the mass reference and the conversion factor to 1 kg must be indicated in the appropriate table as declared. If averages are declared across various products, the average breakdown must be explained

- Describe which components are included with an unweighted average (for example, if the EPD shall cover a number of different fitting systems and therefore an average of the components in each fitting system is included.
- Describe which components are selected as representative for multiple component options (for example if >90% of all products use the same type of front textile and the average EPD therefore is based on this type).
- If different panel sizes are covered by the average EPD, the results must correspond to either an average or a product typical panel size (m²).

1 m² must be selected as the declared unit. The conversion factor to 1 kg of the various products must be indicated. It is noted that products of different sizes than the representative size (average or typical) may have a different ratio of materials/components. The anticipated error during conversion must be declared by indicating the approximate maximum percentage deviation based on the weight of the frame per m². The frame is selected because it is the predominant component with regards to weight and LCA results.

#### **Declared unit**

Name	Value	Unit
Content of frame (based on weight)		%
Content of textile membrane (based on weight)		%
Content of in-fill (based on weight)		%
Deviation from frame (max. kg/m²)		%
Declared unit		m <sup>2</sup>
Panel size		m <sup>2</sup>
Conversion factor to 1 kg		kg/m <sup>2</sup>

#### 3.2 System boundary

Type of the EPD: choose as appropriate: cradle to gate, cradle to gate - with options, cradle to grave]. The modules considered in the Life Cycle Assessment as per "System limits" outlined in section 5.5. of the PCR, Part A: "Calculation Rules for the Life Cycle Assessment and Requirements on the Background Report" must be described in brief. It should be apparent as to what processes are considered in what modules.

#### 3.3 Estimates and assumptions

Key assumptions and estimates for interpretation of the Life Cycle Assessment should be referred to here provided that they are not dealt with in other sections of 3 "LCA: Calculation rules".

#### 3.4 Cut-off criteria

The use of cut-off criteria as per the PCR, Part A: "Calculation Rules for the Life Cycle Assessment and Requirements on the Background Report" must be documented here.

#### 3.5 Background data

The sources for background data used must be provided.

#### 3.6 Data quality

An estimate should be made as regards data quality (Foreground and Background data), whereby the age of background data used must be indicated.

#### 3.7 Period under review

The period under review and ensuing averages must be documented.

#### 3.8 Allocation

The allocations of relevance for calculation (appropriation of expenses across various products) must be indicated, at least:

- Allocation in the use of recycled and/or secondary raw materials
- Allocation of energy, auxiliary and operating materials used for individual products in a factory
- Credits from recycling or energy recovery of packaging materials and production waste

#### LOGO

- Credits from recycling or energy recovery from the end of life of the product
- whereby reference must be made to the modules in which the allocations are performed.

whereby reference must be made to the modules in which the allocations are performed.

#### 3.9 Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to /EN 15804/ and the building context, respectively the product-specific characteristics of performance, are taken into account. The used background database has to be mentioned.

#### 4. LCA: Scenarios and additional technical information

The following information is necessary for the declared modules and optional for non-declared modules. Modules for which no information is declared can be deleted; additional information can also be listed if necessary.]

The following technical information is a basis for the declared modules or can be used for developing specific scenarios in the context of a building assessment if modules are not declared (MND).

If the use of packaging material for the declared product is declared in EPDs in Module A3, but Module A5 is not declared with the disposal of the packaging material on the construction site, the recorded amounts of packaging materials must be declared as technical scenario information for Module A5 in the EPD, chap. 4

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In case a **reference service life** according to applicable ISO standards is declared then the assumptions and in-use conditions underlying the determined RSL shall be declared. The same holds for a service life declared by the manufacturer.

#### 5. LCA: Results

In Table 1 "Description of the system boundary", all declared modules shall be indicated with an "X"; all modules that are not declared shall be indicated with "MND". In the following tables 2, 3 and 4, columns may be deleted for modules that are not declared. Indicator values should be declared with three valid digits (eventually exponential form (e.g. 1,23E-5 = 0,0000123). A uniform format should be used for all values of one indicator. If several modules are not declared and therefore have been deleted from the table, the abbreviations for the indicators can be replaced by the complete names, while the readability and clear arrangement should be preserved; the legends can then be deleted.

If no reference service life is declared (see chapter 2.13 "Reference Service Life"), the LCA results of the modules B1-B2 and B6-B7 must refer to a period of one year. This must be indicated as an explanatory text in Chapter 5, "LCA: Results". Also in this case, the calculation formula for the total life cycle results is to be specified.

DESC	CRIPT	ION O	F THE	SYST	EM B	OUND	ARY (	X = IN	CLUD	ED IN	LCA; I	MND =	MOD	ULE N	OT DE	ECLARED)
PROI	DUCT S	TAGE	CONST ON PRO	OCESS		USE STAGE			END OF LIFE STAGE			BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES				
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse- Recovery- Recycling- potential
<b>A</b> 1	A2	А3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	С3	C4	D

#### RESULTS OF THE LCA - ENVIRONMENTAL IMPACT: declared unit and product

Para meter	Parameter	Unit				
GWP	Global warming potential	[kg CO <sub>2</sub> -Eq.]				
ODP	Depletion potential of the stratospheric ozone layer	[kg CFC11-Eq.]				
AP	Acidification potential of land and water	[kg SO <sub>2</sub> -Eq.]				
EP	Eutrophication potential	[kg (PO <sub>4</sub> ) <sup>3</sup> Eq.]				
POCP	Formation potential of tropospheric ozone photochemical oxidants	[kg ethene-Eq.]				
ADPE	Abiotic depletion potential for non-fossil resources	[kg Sb-Eq.]				
ADPF	Abiotic depletion potential for fossil resources	[MJ]				

GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Caption Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources

#### RESULTS OF THE LCA - RESOURCE USE: declared unit and product

Parameter	Parameter		
PERE	Renewable primary energy as energy carrier	[MJ]	
PERM	Renewable primary energy resources as material utilization	[MJ]	
PERT	Total use of renewable primary energy resources	[MJ]	
PENRE	Non-renewable primary energy as energy carrier	[MJ]	
PENRM	Non-renewable primary energy as material utilization	[MJ]	
PENRT	Total use of non-renewable primary energy resources	[MJ]	
SM	Use of secondary material	[kg]	
RSF	Use of renewable secondary fuels	[MJ]	
NRSF	Use of non-renewable secondary fuels	[MJ]	
FW	Use of net fresh water	[m³]	

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources; PENRE = Use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

## RESULTS OF THE LCA – OUTPUT FLOWS AND WASTE CATEGORIES: declared unit and product

Parameter	Parameter	Unit	
HWD	Hazardous waste disposed	[kg]	
NHWD	Non-hazardous waste disposed	[kg]	
RWD	Radioactive waste disposed	[kg]	
CRU	Components for re-use	[kg]	
MFR	Materials for recycling	[kg]	
MER	Materials for energy recovery	[kg]	
EEE	Exported electrical energy	[MJ]	
EET	Exported thermal energy	[MJ]	

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components
Caption for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EEE = Exported thermal energy

#### 6. LCA: Interpretation

To facilitate comprehension of the Life Cycle Assessment, both the aggregate indicators of the Life Cycle Inventory Analysis (LCIA) and the estimated impact outlined in section 5 "LCA results" must be interpreted in a dominance analysis.

This interpretation must also include a description of the time frame and/or variance of the LCIA results if the EPD is valid for several products. An illustration of the results with figures is recommended, e.g. for the dominance analysis, the distribution of impacts across the modules, the CO2-balance, etc. as appropriate for a reader's understanding of the environmental profile of the declared product.

#### 7. Requisite evidence

As a general rule, all statements must be documented with measured data (presented by the corresponding test certificates). In the case of non-verifiable substances, the limit of detection must be included in the declaration. Interpreting statements such as "... free of ..." or "... are entirely harmless ..." are not permissible.

If relevant to the scope of the declared product, or due to the material composition derivable, it is

recommended to provide adequate evidence. The methods of evidence and the test conditions are to be indicated. If evidence are not provided the reasons are to be indicated in the EPD.

#### 7.1 Release of formaldehyde

(cf. EN-717, ISO-16000-6 and/or other relevant)

#### 8. References

The literature referred to in the Environmental Product Declaration must be quoted in full from the following sources. Standards and standards relating to evidence and/or technical features already fully quoted in the EPD do not need to be listed here. Part B of the PCR document on which they are based must be referred to

#### **Institut Bauen und Umwelt**

Institut Bauen und Umwelt e.V., Berlin (pub.): Generation of Environmental Product Declarations (EPDs);

#### **General Principles**

for the EPD range of Institut Bauen und Umwelt e.V. (IBU), 2015/10

#### www.ibu-epd.de

#### /ISO 14025/

DIN EN /ISO 14025:2011-10/, Environmental labels and declarations — Type III environmental declarations — Principles and procedures

#### /EN 15804/

/EN 15804:2012-04+A1 2013/, Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products



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#### Logo

#### Author of the Life Cycle

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Land

Logo

Tel Nummer Name Nummer Fax Straße, Nr. Mail e-mail PLZ, Ort Land Web Web-Adresse

#### Owner of the Declaration

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### Additional contents for the transmission of the EPD data set to the ÖKOBAUDAT system

**A: Technology description and included processes**Description of the manufacturing process and specification of the processes and materials used.