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 Floor coverings

www.ibu-epa.com





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1.0	First transmission of the PCRs into the database. Layout optimized. Specific data for electronic data exchange completed.	09.07.2012

Tracking of versions of the PCR Template

Version	Comments	Status
1.0	Revision according to the decisions of the SVA from the 22.03.2013.	05.04.2013
1.1	Adjustment address IBU	09.07.2013
1.2	Insert Signature Managing Director	15.10.2013
1.3	Revision according to the decisions of the SVA	04.07.2014
1.4	Adjustment in chapter 2.1, 2.3 according to the decision of the SVA Nr. 20160715 m+n+o+p	26.09.2016
1.5	Implementation of the SVR decisions No. 20170315-e; No. 20170315-j; No. 20170315-k; Nr. 20170315-i	10.04.2017

Tracking of versions PCR specific

Version	Comments	Status
1.0	Additional product-group-specific LCA calculation rules from PCR part A implemented.	11.04.2013
1.1	Reference to PCR for parquet flooring	25.07.2016

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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:

- resilient floor coverings manufactured from plastics, linoleum, cork or rubber, excluding loose-laid mats;
- textile floor coverings, excluding loose-laid mats and rugs;
- laminate floor coverings;
- floor panels for loose-laying;

according to EN 14041: 2004/AC: 2006, Resilient, textile and laminate floor coverings - Essential characteristics.

The use classes shall be described in the EPD by using the appropriate floor covering standard symbols according to CEN TS 15398 /4/ (Floor Covering Standard Symbol (FCSS), see also www.floorsymbols.com).

• For the preparation of EPDs for Parquet floors according to EN 14342, the PCR part B Solid wood products apply.

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



www.ibu-epd.com / https://epd-online.com

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.

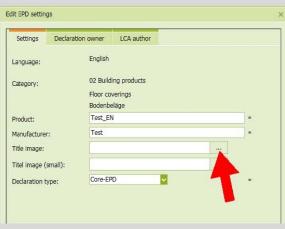
Small picture max. 4 MB

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 Programme holder IBU - Institut Bauen und Umwelt e.V. Panoramastr. 1 Street 10178 Berlin Postal Code/City Germany **Declaration number** This Declaration is based on the Product Scope: **Category Rules:** Name of PCR, 07.2016 (PCR tested and approved by the SVR) Issue date Valid to Verification [Unterschrift] Prof. Dr.-Ing. Horst J. Bossenmayer internally (President of Institut Bauen und Umwelt e.V.) [Unterschrift]

Name of the product

Owner of the Declaration

Name of the manufacturer

Declared product / Declared unit

Name of declared product / declared unit

The products, plants and their locations on which data the Life Cycle Assessment is based and for which the Declaration applies must be outlined. For average EPDs, e.g. Association EPDs, this type of EPD must be referred to. The plants/companies reviewed, on whose data the Life Cycle Assessment is based and for which the Declaration applies, must be referred to by name; alternatively, the representativity of the Declaration for the association can be depicted as regards the production volume and technology used and covered by the Life Cycle Assessment.

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.

The CEN Norm /EN 15804/ serves as the core PCR

Independent verification of the declaration according to /ISO 14025/

externally

[Unterschrift]

Name of verifier (Independent verifier appointed by SVR)

Product

Dr.-Ing. Burkhart Lehmann

(Managing Director IBU)

Product description / Product definition

The declared products must be described..

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

/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:

LOGO

/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 CEmarking.

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.

/EN..../

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

Value	Unit
	mm
	g/m²
	-
	-
	-
	-
	%
	mm
	g/m²
	mm
	pce/dm ²
	g/m²
	-
	mm
	mm
	mm
	mm
	kg/m³
	mm
	Value

(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 to the 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. This information should also support safety and efficiency during installation, usage and disposal of the product.

Declaration of material product content must list at least those substances contained in the product which are included in the "Candidate List of Substances of Very High Concern for Authorisation" where their contents exceed the limit values for registration by the European Chemicals Agency.

Information such as "... is free of ..." may not be used. 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.

Fire protection

Name	Value
Building material class	
Smoke gas development	
Burning droplets	

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

1m² of floor covering with specified construction/composition parameters. The mass reference should be indicated.

Declared unit

200:4:04 4::::		
Name	Value	Unit
Declared unit		m ²
Conversion factor to 1 kg		-

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
- 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.

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.

Transport to the construction site (Δ4)

Transport to the construction site	(TT)	
Name	Value	Unit
Litres of fuel		l/100km
Transport distance		km
Capacity utilisation (including empty runs)		%
Gross density of products transported		kg/m ³
Capacity utilisation volume factor		-

Installation in the building (A5)

installation in the building (A3)		
Name	Value	Unit
Auxiliary		kg
Water consumption		m ³
Electricity consumption		kWh
Other energy carriers		MJ
Material loss		kg
Output substances following waste		kg
treatment on site		Ny
Dust in the air		ka

Use (B1) see cap. 2.12 use

Value Unit	l
Value U	ınıt

Maintenance (B2)

maintonanos (B2)		
Name	Value	Unit
Information on maintenance		-
Maintananaa ayala		Number/
Maintenance cycle		RSL
Water consumption		m ³
Auxiliary		kg
Electricity consumption		kWh
Other energy carriers		MJ
Material loss		kg

Repair (B3)

Repair (D3)		
Name	Value	Unit
Information on the repair process		-
Information on the inspection process		-
Repair cycle		Number/ RSL
Water consumption		m ³
Auxiliary		kg
Other resources		kg
Electricity consumption		kWh
Other energy carriers		MJ
Material loss		kg

Replacement (B4) / Refurbishment (B5)

Name	Value	Unit
Depleasement avala		Number/
Replacement cycle		RSL
Electricity consumption		kWh
Depleasement of worn parts		Number/
Replacement of worn parts		RSL

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.

Reference service life

Name	Value	Unit
Reference service life (according to ISO 15686-1, -2, -7 and -8)		а
Life Span (according to BBSR)		а

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Life Span according to the manufacturer	а
Declared product properties (at the gate) and finishes	-
Design application parameters (if instructed by the manufacturer), including the references to the appropriate practices and application codes	-
An assumed quality of work, when installed in accordance with the manufacturer's instructions	-
Outdoor environment, (for outdoor applications), e.g. weathering, pollutants, UV and wind exposure, building orientation, shading, temperature	-
Indoor environment (for indoor applications), e.g. temperature, moisture, chemical exposure	-
Usage conditions, e.g. frequency of use, mechanical exposure	-
Maintenance e.g. required frequency, type and quality and replacement of components	-

Operational energy (B6) and water consumption (B7)

Name	Value	Unit
Water consumption		m³
Electricity consumption		kWh
Other energy carriers		MJ
Equipment output		kW

End of Life (C1-C4)

Name	Value	Unit
Collected separately		kg
Collected as mixed construction waste		kg
Reuse		kg
Recycling		kg
Energy recovery		kg
Landfilling		kg

Reuse, recovery and/or recycling potentials (D), relevant scenario information

Tolovani ocomano imormanon			
Name	Value	Unit	

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	RIPT	ION O	F THE	SYST	EM B	OUND	ARY (X = IN	CLUD	ED IN	LCA; I	MND =	MOD	ULE N	OT DE	CLARED)
PRODUCT STAGE		CONSTRUCTI ON PROCESS STAGE		USE STAGE				EN	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
A1	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 ₂ -Eq.]	
ODP	Depletion potential of the stratospheric ozone layer	[kg CFC11-Eq.]	
AP	Acidification potential of land and water	[kg SO ₂ -Eq.]	
EP	Eutrophication potential	[kg (PO ₄) ³ -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	Unit	
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 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]	
FFT	Exported thermal energy	[M]	

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 VOC emissions

The name of the testing institute, the number of the test report and the results according to the testing methods described in the ECA 18 report shall be given.

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), 2013/04

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

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

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