|  |
| --- |
| **EPD - ENVIRONMENTAL PRODUCT DECLARATION** |
| **as per ISO 14025 and EN 15804+A2** |
|  |
| **OWNER AND Publisher** **Bau EPD GmbH, A-1070 Wien, Seidengasse 13/3, www.bau-epd.at**  **Programme Operator Bau EPD GmbH, A-1070 Wien, Seidengasse 13/3, www.bau-epd.at**  **HOLDER of the Declaration Name of declaration holder**  **Declaration Number To be accorded with Bau EPD GmbH**  **Issue Date Date**  **Valid To Date**  **NUMBER OF DATASETS Number**  **ENERGY MIX APPROACH MARKET BASED APPROACH** |

**Name and description of product**

**Name of declaration owner**

**picture**

**To be accorded with declaration owner and Bau EPD GmbH**

**Company logo**

**of declaration owner**

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# General information

|  |  |
| --- | --- |
| **Product name**  Name and description of product | **Declared Product / Declared Unit**  Description of the declared product and declared unit/functional unit  **Number of datasets in EPD Document(s):** XX  **Range of validity**  The product, the sites/distribution locations and sales location (region, country) on which the data of the LCA study is based must be cited.  In case of average EPD the calculation of the average must be described shortly. By doing so, the representativity of the declaration regarding to the product masses covered by the LCA and the used technologies must be described.  **Goal of the study**  Description of the goal of the study:  ‘This life cycle assessment serves as the basis for issuing an environmental product declaration (EPD). The results are intended to be published in an EPD. The data is intended for an EPD for ‘business-to-business’ (B2B) and/or ‘business-to-consumer’ (B2C) communication.’  If there are additional objectives of the study, these must be stated. |
| **Declaration number**  To be accorded with Bau EPD GmbH |
| **Declaration data**  Specific data  Average data |
| **Declaration based on:**  MS-HB Version XX dated TT.MM.YYYY:  Name of PCR  PCR-Code  Version XX dated TT.MM.YYYY  (PCR tested and approved by the independent expert committee  = PKR-Gremium)  Version of EPD-Format-Template M-Dok 14A2:  The owner of the declaration is liable for the underlying information and evidence; Bau EPD GmbH is not liable with respect to manufacturer information, life cycle assessment data and evidence. |
| **Type of Declaration as per EN 15804**  From cradle to ... .....  LCA-method: (i.e. cut-off by classification) | **Database, Software, Version**  Declaration of backround database, Software used and both its versions  **Version Characterisation Factors:** Quelle, Version |
| **Author of the Life Cycle Assessment**  Name of the author  Institution,  Address  COUNTRY | **The CEN standard EN 15804:2012+A2:2019+AC:2021 serves as the core-PCR. The c-PCR of CEN xxxxxx has been applied.**  **Independent verification of the declaration according to ISO 14025:2010**  internally  externally  **Verifier 1:** Name  **Verifier 2:** Name |
| **Holder of the Declaration**  Name of the manufacturer/owner  Institution  Address  COUNTRY | **Owner, Publisher and Programme Operator**  Bau EPD GmbH  Seidengasse 13/3  1070 Vienna  Austria |

**DI (FH) DI DI Sarah Richter**

Head of Conformity Assessment Body

**Academic Title Name** **Academic Title Name,**

Verifier Verifier

**Note:** EPDs from similar product groups from different programme operators might not be comparable.

# Product

## General product description

Content as defined in product specific PCR-B document.

## Application field

Content as defined in product specific PCR-B document.

## Standards, guidelines and regulations relevant for the product

Content as defined in product specific PCR-B document.

Table 1: Product specific standards

|  |  |
| --- | --- |
| **Standard** | **Title** |
|  |  |
|  |  |
|  |  |

## Technical data

Content as defined in product specific PCR-B document.

Table 2: technical data of the declared construction product(s)

|  |  |  |
| --- | --- | --- |
| **Characterization** | **Value** | **Unit** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Basic/auxiliary materials

Content as defined in product specific PCR-B document.

Table 3: Basic and auxiliary materials in mass percentage

|  |  |  |
| --- | --- | --- |
| **Components** | **Function** | **Mass fraction in percent** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Production stage

Content as defined in product specific PCR-B document.

## Packaging

Content as defined in product specific PCR-B document.

## Conditions of delivery

Content as defined in product specific PCR-B document.

## Transport to site

Content as defined in product specific PCR-B document.

## Construction product stage

Content as defined in product specific PCR-B document.

## Use stage

Content as defined in product specific PCR-B document.

## Reference service life (RSL)

Content as defined in product specific PCR-B document.

Table 4: Reference service life (RSL)

|  |  |  |
| --- | --- | --- |
| **Characterization** | **value** | **unit** |
| Product name |  | years |
| Differentiation indoor and outdoor etc. so relevant |  | years |
| Reference conditions on which the RSL is based (if relevant) |  | Individual units |

## End of life stage

Content as defined in product specific PCR-B document.

## Further information

Content as defined in product specific PCR-B document.

# LCA: Calculation rules

## Declared unit/ Functional unit

Content as defined in product specific PCR-B document.

Table 5: Declared unit

|  |  |  |
| --- | --- | --- |
| **characterization** | **value** | **unit** |
| declared unit | 1 | m3 |
| Bulk density1) |  | kg/m2 |
| Weight for conversion into kg |  | kg |

1) If the gross density corresponds to the conversion factor to 1 kg, the last line is omitted. In the last line, instead of ‘weight’, the usual term for the weight in question can be stated (e.g. weight per unit area, weight per piece, etc.).

Table 6: Functional unit

|  |  |  |
| --- | --- | --- |
| **characterization** | **value** | **unit** |
| functional unit | 1 | m3 |
| Bulk density1) |  | kg/m2 |
| Weight for conversion into kg |  | kg |

1) If the gross density corresponds to the conversion factor to 1 kg, the last line is omitted. In the last line, instead of ‘weight’, the usual term for the weight in question can be stated (e.g. weight per unit area, weight per piece, etc.).

## System boundary

Content as defined in product specific PCR-B document.

**Table 7: Declared life cycle stages**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PRODUCT STAGE** | | | **CON-STRUCTION PROCESS STAGE** | | **USE STAGE** | | | | | | | **END-OF-LIFE STAGE** | | | | **BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES** |
| A1 | A2 | A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
| Raw material supply | Transport | Manufacturing | Transport from the gate to the site | Construction, installation | Use | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction, demolition | Transport | Waste processing | Disposal | Reuse-  Recovery-  Recycling-  potential |
| x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

X = included in LCA; ND = Not declared

## Flow chart of processes/stages in the life cycle

Content as defined in product specific PCR-B document.

## Estimations and assumptions

Content as defined in product specific PCR-B document.

## Cut-off criteria

Content as defined in product specific PCR-B document.

## Allocation

Content as defined in product specific PCR-B document.

## Comparability

Content as defined in product specific PCR-B document.

# LCA: Scenarios and additional technical information

Content as defined in product specific PCR-B document.

## A1-A3 product stage

Content as defined in product specific PCR-B document.

## A4-A5 Construction process stage

Content as defined in product specific PCR-B document.

Table 8: Description of the scenario „Transport to building site (A4)“ x)

|  |  |  |
| --- | --- | --- |
| **Parameters to describe the transport to the building site (A4)** | **Value** | **Unit** |
| Average transport distance |  | km |
| vehicle type, Commission Directive 2007/37/EC (European Emission Standard) |  | - |
| Fuel type and average consumption of vehicle |  | l/100 km |
| Maximum transport mass |  | tons |
| Capacity utilisation (including empty returns) |  | % |
| Bulk density of transported products |  | kg/m3 |
| Volume capacity utilisation factor (factor: =1 or <1 or ≥ 1 for compressed or nested packaged products) |  | - |

x) The table must be filled with available information from chosen datasets resp. must be adapted (e.g. transport by ship). The used datasets must be indicated in a footnote.

Table 9: Description of the scenario „Installation of the product in the building (A5)“

|  |  |  |
| --- | --- | --- |
| **Parameters to describe the installation of the product in the building (A5)** | **Value** | **Unit** |
| Ancillary materials for installation (specified by material); |  | kg/t  t/t  l/t |
| Ancillary materials for installation (specified by type); |  | - |
| Water use |  | m3/t  l/t |
| Other resource use |  | kg/t  t/t  l/t |
| Electricity demand |  | kWh or MJ/t |
| Other energy carrier(s): ……………. |  | kWh or MJ/t |
| Wastage of materials on the building site before waste processing, generated by the product’s installation (specified by type) |  | kg/t |
| Output materials (specified by type) as result of waste processing at the building site e.g. of collection for recycling, for energy recovery, disposal (specified by route) |  | kg/t |
| Direct emissions to ambient air (such as dust, VOC), soil and water |  | tg/t |

## B1-B7 use stage

B1: Content as defined in product specific PCR-B document.

Table 10: Description of the scenario „maintenance (B2)“ based on table 9 in EN 15804

|  |  |  |
| --- | --- | --- |
| **Parameters maintenance (B2)** | **value** | **unit** |
| Maintenance process |  | Description or source where description can be  found |
| Maintenance cycle |  | Number per RSL or year a |
| Ancillary materials for maintenance, e.g.  cleaning agent, specify materials |  | Kg/cycle |
| Waste material resulting from maintenance (specify materials) |  | kg |
| Net freshwater consumption during maintenance |  | m3 |
| Energy input during maintenance, e.g. vacuum cleaning, energy carrier type, e.g. electricity, and amount, if applicable and relevant |  | kWh |

Table 11: Description of the scenario „repair (B3)“

|  |  |  |
| --- | --- | --- |
| **Parameters repair (B3)** | **value** | **unit** |
| Repair process |  | Description or source where description can be  found |
| Inspection process |  | Description or source where description can be  found |
| Repair cycle |  | Number per RSL or year |
| Ancillary materials, e.g. lubricant, specify  materials |  | Kg or kg/cycle |
| Waste material resulting from repair, (specify materials) |  | kg |
| Net freshwater consumption during repair |  | m3 |
| Energy input during repair, e.g. crane activity,  energy carrier type, e.g. electricity, and amount |  | kWh |

Table 12: Description of scenario „replacement (B4)“

|  |  |  |
| --- | --- | --- |
| **Parameters replacement (B4)** | **value** | **unit** |
| Replacement cycle |  | Number per RSL or year |
| Energy input during replacement e.g. crane activity, energy carrier type, e.g. electricity and amount if applicable and relevant |  | kWh |
| Exchange of worn parts during the product’s life cycle, e.g. zinc galvanised steel sheet, specify materials |  | kg |

Table 13: Description of scenario „refurbishment (B5)“

|  |  |  |
| --- | --- | --- |
| **Parameters refurbishment (B5)** | **value** | **unit** |
| Refurbishment process |  | Description or source where description can be  found |
| Refurbishment cycle |  | Number per RSL or year |
| Energy input during refurbishment e.g. crane  activity, energy carrier type, e.g. electricity, and  amount if applicable and relevant |  | kWh |
| Material input for refurbishment, e.g. bricks, including ancillary materials for the refurbishment process e.g. lubricant, (specify materials) |  | kg or kg / cycle |
| Waste material resulting from refurbishment (specify materials) |  | kg |
| Further assumptions for scenario development, e.g. frequency and time period of use, number of occupants |  | Units as appropriate |

Table 14: Description of scenarios „energy (B6)“ resp. „Water (B7)“

|  |  |  |
| --- | --- | --- |
| **Parameters energy (B6) and water (B7)** | **value** | **unit** |
| Ancillary materials, e.g. lubricant, specify  materials |  | Kg or kg/cycle |
| Net fresh water consumption |  | m3 |
| Type of energy carrier, e.g. electricity, natural gas, district  heating |  | kWh or m³ |
| Power output of equipment |  | kW |
| Characteristic performance, e.g. energy efficiency, emissions, variation of performance with capacity utilisation etc. |  | units as appropriate |
| Further assumptions for scenario development, e.g. frequency and period of use, number of occupants |  | units as appropriate |

## C1-C4 End-of-Life stage

Content as defined in product specific PCR-B document.

Table 15: Description of the scenario „Disposal of the product (C1 to C4)“

(Procedures of collection and recovery must be described in a footnote (including technical features).

|  |  |  |
| --- | --- | --- |
| **Parameters for End-of-Life stage (C1-C4)** | **value** | **Quantity per m3 insulation material** |
| Collection process specified by type |  | kg collected separately |
|  | kg collected with mixed construction waste |
| Recovery system specified by type |  | kg for re-use |
|  | kg for recycling |
|  | kg for energy recovery |
| Disposal specified by type |  | kg product or material for final deposition |
| Assumptions for scenario development, e.g. transportation |  | Appropriate units |

## D Potential of reuse and recycling

Content as defined in product specific PCR-B document.

Table 16: Description of the scenario „re-use, recovery and recycling potential (module D)“

(Substituted primary materials resp. technologies must be declared in a separate footnote (including technical information).

|  |  |  |
| --- | --- | --- |
| **Parameters for module D** | **value** | **unit** |
| Materials for reuse, recovery or recycling from A4-A5 |  | % |
| Energy recovery or secondary fuels from A4-A5 |  | MJ/t resp. kg/t |
| Materials for reuse, recovery or recycling from B2-B5 |  | % |
| Energy recovery or secondary fuels from B2-B5 |  | MJ/t resp. kg/t |
| Materials for reuse, recovery or recycling from C1-C4 |  | % |
| Energy recovery or secondary fuels from C1-C4 |  | MJ/t resp. kg/t |

# Information on data quality and data selection in accordance with EN 15941

## Principles for the description of data quality

Content as defined in product specific PCR-B document.

## Description of the temporal, geographical and technological representativeness of the product data

Content as defined in product specific PCR-B document.

## Explanation of the averaging process

Content as defined in product specific PCR-B document.

## Assessment of the data quality of the Life Cycle Inventory data

Content as defined in product specific PCR-B document.

# LCA: results

Table 17: Parameters to describe the environmental impact

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Para-meter** | **unit** | **A1-A3** | **A4** | **A5** | **B1** | **B2** | | **B5** | **B6** | **B7** | **B1-B7** | **C1** | **C2** | **C3** | **C4** | **C1-C4** | **A-C** | **D** |
| GWP total | kg CO2 eq. |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| GWP fossil fuels | kg CO2 eq. |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| GWP biogenic | kg CO2 eq. |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| GWP luluc | kg CO2 eq. |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| ODP | kg CFC-11 eq. |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| AP | mol H+ eq. |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| EP freshwater | kg P eq. |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| EP marine | kg N eq. |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| EP terrestrial | mol N eq. |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| POCP | kg NMVOC eq. |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| ADPE | kg Sb eq. |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| ADPF | MJ Hu |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| WDP | m3 Welt eq. entz. |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |
| Legende | | | | | | | GWP = Global warming potential; luluc = land use and land use change;  ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance;  EP = 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 WDP = Water (user) deprivation potential, deprivation-weighted water consumption | | | | | | | | | | | |

Table 18: Additional environmental impact indicators

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter** | **Einheit** | **A1-A3** | **A4** | **A5** | | **B1** | **B2** | **B5** | **B6** | **B7** | **B1-B7** | **C1** | **C2** | **C3** | **C4** | **C1-C4** | **A-C** | **D** |
| PM | Auftreten von Krankheiten |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IRP | kBq U235 äquiv |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ETP-fw | CTUe |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HTP-c | CTUh |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HTP-nc | CTUh |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SQP | dimensions-los |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Legend | | | | | PM = Potential incidence of disease due to Particulate Matter emissions; IRP = Potential Human exposure efficiency  relative to U235; ETP-fw = Potential Comparative Toxic Unit for ecosystems; HTP-c = Potential Comparative Toxic Unit for humans – cancer effect; HTP-nc = Potential Comparative Toxic Unit for humans – non-cancer effect; SQP = Potential soil quality index | | | | | | | | | | | | | |

Table 19 presents disclaimers which shall be declared in the project report and in the EPD with regard to the declaration of relevant core and additional environmental impact indicators according to the following classification. That can be declared in a footnote in the EPD.

Table 19: Classification of disclaimers to the declaration of core and additional environmental impact indicators

|  |  |  |
| --- | --- | --- |
| **ILCD-classification** | **Indicator** | **disclaimer** |
| ILCD-Type 1 | Global warming potential (GWP) | none |
| Depletion potential of the stratospheric ozone layer (ODP) | none |
| Potential incidence of disease due to PM emissions (PM) | none |
| ILCD-Type 2 | Acidification potential, Accumulated Exceedance (AP) | none |
| Eutrophication potential, Fraction of nutrients reaching  freshwater end compartment (EP-freshwater) | none |
| Eutrophication potential, Fraction of nutrients reaching  marine end compartment (EP-marine) | none |
| Eutrophication potential, Accumulated Exceedance  (EP-terrestrial) | none |
| Formation potential of tropospheric ozone (POCP) | none |
| Potential Human exposure efficiency relative to U235 (IRP) | 1 |
| ILCD-Type 3 | Abiotic depletion potential for non-fossil resources  (ADP-minerals&metals) | 2 |
| Abiotic depletion potential for fossil resources (ADP-fossil) | 2 |
| Water (user) deprivation potential, deprivation-weighted  water consumption (WDP) | 2 |
| Potential Comparative Toxic Unit for ecosystems (ETP-fw) | 2 |
| Potential Comparative Toxic Unit for humans (HTP-c) | 2 |
| Potential Comparative Toxic Unit for humans (HTP-nc) | 2 |
| Potential Soil quality index (SQP) | 2 |
| Disclaimer 1 – This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator. | | |
| Disclaimer 2 – The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator. | | |

Table 20: Parameters to describe the use of resources

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameter** | **Einheit** | **A1-A3** | | **A4** | **A5** | **B1** | **B2** | **B5** | **B6** | **B7** | **B1-B7** | **C1** | **C2** | **C3** | **C4** | **C1-C4** | **A-C** | **D** |
| PERE | MJ Hu |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PERM | MJ Hu |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PERT | MJ Hu |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PENRE | MJ Hu |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PENRM | MJ Hu |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PENRT | MJ Hu |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SM | kg |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RSF | MJ Hu |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NRSF | MJ Hu |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FW | m3 |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Legend | | | PERE = Renewable primary energy as energy carrier; PERM = Renewable primary energy resources as material utilization; PERT = Total use of renewable primary energy resources; PENRE = Non-renewable primary energy as energy carrier; PENRM = Non-renewable primary energy as material utilization; PENRT = Total 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 fresh water | | | | | | | | | | | | | | | |

**Table 21: Parameters describing LCA-output flows and waste categories**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Para-meter** | **Einheit** | **A1-A3** | **A4** | **A5** | **B1** | | **B2** | **B5** | **B6** | **B7** | **B1-B7** | **C1** | **C2** | **C3** | **C4** | **C1-C4** | **A-C** | **D** |
| HWD | kg |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |
| NHWD | kg |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |
| RWD | kg |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |
| CRU | kg |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |
| MFR | kg |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |
| MER | kg |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |
| EEE | MJ |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |
| EET | MJ |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |
| Legend | | | | | | HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed;  CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electric energy; EET = Exported thermal energy | | | | | | | | | | | | |

Table 22: Information describing the biogenic carbon content at the factory gate

|  |  |
| --- | --- |
| **Biogenic carbon content** | **Unit** |
| Biogenic carbon content in product | kg C |
| Biogenic carbon content in accompanying  packaging | kg C |
| NOTE 1 kg biogenic carbon is equivalent to 44/12 kg of CO2 | |

# LCA: Interpretation

Content as defined in product specific PCR-B document.

# Literature

Relevant standards and sources for the preparation of the EPD resp. for the definition of the product must be listed here. The full documentation of references is to be done as follows:

Author, First name. and Author, First name. (year). Title of article. subtitle. location: publishing company.

Author, First name. (year). Title of article. In: Surname, First name. and Surname, First name. (Publishing company): Name of paper. Bd. 2 *or year number,* 207-210.

Organisation (Year): Full name of standard or rule. Date of Issue. Location. Legal institution.

Always to be quoted:

EN ISO 14025:2006-07 Environmental labels and declarations -Type III environmental declarations -- Principles and procedures

EN ISO 14040:2006+A1:2020 Environmental management - Life cycle assessment -- Principles and framework

EN ISO 140442006+A1:2017+A2:2020 Environmental management - Life cycle assessment -- Requirements and guidelines

EN 15941:2024 Sustainability of construction works - Data quality for the assessment of environmental quality of products and construction works - Selection and application of data

General Principles and Guidelines = MS-HB and applicable M-Docs of Bau-EPD GmbH, in the current version

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## Abbreviations

### Abbreviations as per EN 15804

EPD environmental product declaration

PCR product category rules

LCA life cycle assessment

LCI life cycle inventory analysis

LCIA life cycle impact assessment

RSL reference service life

ESL estimated service life

EPBD Energy Performance of Buildings Directive

GWP global warming potential

ODP depletion potential of the stratospheric ozone layer

AP acidification potential of soil and water

EP eutrophication potential

POCP formation potential of tropospheric ozone

ADP abiotic depletion potential

### Abbreviations as per corresponding PCR

CE-mark french: Communauté Européenne or Conformité Européenne = EC certificate of conformity

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

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