

| number / Nummer | Field name (EN) | Data type (EN) | Definition and explanation (EN) | InData / ÖKOBAUDAT compliance CP-2020 | Deviation to ILCD format definition (see FAQ) | Extension of ILCD format | InData Compliance Construction Products CPEN2020 comments | Example (EN) | Changes compared to pre-version? none / deleted / adapted / new |
|-----------------|---|-----------------------|--|---------------------------------------|---|--------------------------|---|--|---|
| A | Process information | | | | | | | | |
| A1 | Key data set information | | | | | | | | |
| A1.1 | UUID of data set | UUID | Automatically generated universally unique identifier of this data set. Together with the "Data set version", the UUID uniquely identifies each data set. Find further explanations in FAQ . | m | | | For further details see FAQ . | fe8fd0db-94d7-44a1-ba14-c32d43b1b3a3 | none |
| A1.2 | Name | Text | General descriptive and specifying name of the product/system. | m | | | | Cement (CEM II 32.5) | none |
| A1.3 | Classification | | Hierarchical classification of the product/system. Classification information can be given for an arbitrary number of classification systems. Find further explanations in FAQ . | m | | | For InData compliance: this can be any classification system, it has to be provided in English. For further details see FAQ . | Class name : Hierarchy level ÖKOBAUDAT: 1.1.01 Mineral Building Products / Binder / Cement | none |
| A1.4 | General comment on data set | Text | If relevant: General information about the data set, including quality assurance (e.g. general quality statements (internal, not reviewed)) as well as information sources used. Note: Please fill in only central aspects ("synopsis of dataset") and avoid overlapping entries with "Advice on data set use". | o | | | | The data set covers..... | none |
| A1.5 | Data set LCA report, background information | Reference to source | Project report according to EN 15804 can be attached. | o | semantic | | | | none |
| A1.6 | Generic data uncertainty penalties | Decimal number | The amount (in percent) of any included uncertainty penalties. Find further explanations in FAQ . | o | | x | Mandatory for generic data in ÖKOBAUDAT For InData compliance: This concept is used for generic data (at the moment only relevant in ÖKOBAUDAT). For further details see FAQ . | 0.2 | adapted |
| A1.7 | Description of generic data uncertainty penalties | Text | Reasons and rules for choice of uncertainty penalties. Find further explanations in FAQ . | o | | x | Mandatory for generic data in ÖKOBAUDAT For InData compliance: This concept is used for generic data (at the moment only relevant in ÖKOBAUDAT). For further details see FAQ . | Product system mapped completely except for the following processes / flows.... | adapted |
| A1.8 | Content declaration | Text / Decimal number | Content declaration according to EN 15804 and ISO 21930. This allows for specifying which substances are used in the product and the percentage they amount to in the product, optionally by providing this information on component or material level. Example: Gypsum (REA) 92.1% Cardboard 3.0% Glass fibre reinforcement 0.2% Div additives (total) 4.7% Total 100% | o | | x | | | new |

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| A2 | Scenarios | | Declaration of scenarios. Multiple independent groups of scenarios can be declared, using the optional group identifier for differentiation. Within each group, one scenario can be marked as the default one. | | | x | | | |
| A2.1 | Scenario | | One scenario | o | | x | | | none |
| A2.2 | Name | Text | Name of the scenario; mandatory as soon as any scenario is declared. | o | | x | | | none |
| A2.3 | Default | yes/no | yes ("true") if this is the default scenario; If a group of scenarios is declared, one scenario of the group has to be announced as default scenario. | o | | x | | | none |
| A2.4 | Group | | Identifier for a group of scenarios | o | | x | | | none |
| A2.5 | Description | Text | Description of the scenario; mandatory as soon as any scenario is declared. Link to detailed description in EPD-document can be given. | o | | x | | | none |
| A3 | Modules | | | | | x | | | |
| A3.1 | Module | | One module | o | | x | | | none |
| A3.2 | Name | Text | Name of the module | o | | x | | | none |
| A3.3 | Product system ID | Text | ID of the underlying product system for this module | o | | x | | | none |
| A4 | Quantitative reference | | | | | | | | |
| A4.1 | Reference flow(s) | Reference to flow | Link to reference flow of data set; the reference flow is the output that represents the product. Therefore for each EPD (process) data set, at least one reference flow data set has to be given that represents the product. The amount of the exchange with the reference product, together with the reference flow property of the reference product, indicates the declared unit (or functional unit) as stated in the EPD. | m | minor | | | Cement (CEM II 32.5) - 1.0 kg (mass) | none |
| A4.2 | Functional unit, production period, or other parameter | Text | For EPDs that are based on a functional unit, its description goes here. In this case, nevertheless a reference flow has to be specified which declares the physical material properties of the product. | o | | | | | new |
| A5 | Time representativeness | | | | | | | | |
| A5.1 | Reference year | Integer | First year of the time period for which the data set is valid. | m | | | | 2015 | none |
| A5.2 | Data set valid until | Integer | End year of the time period for which the data set is still valid. This date also determines when a data set revision / remodelling is required or recommended due to expected relevant changes in environmentally or technically relevant inventory values, including in the background system. | m | | | | 2018 | none |
| A5.3 | Time representativeness description | Text | Description of the valid time span of the data set including information on limited usability within sub-time spans (e.g. summer/winter). | o | | | | annual average | none |
| A6 | Geographical representativeness | | | | | | | | |
| A6.1 | Location | Location code | Region, for which the data set is representative / relevant. ISO 3166 country code or regional code | m | minor | | | DE | none |
| A6.2 | Geographical representativeness description | Text | Explanations about additional aspects of the location if relevant. | o | minor | | | Imports statistics for Germany were considered for modelling . | none |

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| A7 | Technological representativeness | | | | | | | | |
| A7.1 | Technology description including background system | Text | <p>Description of the technological characteristics including operating conditions of the product system or process. If relevant for the technological representativeness this comprises the technological characteristics of the relevant upstream and downstream processes ("background system") included in the data set. Link to detailed description in EPD-document or to flow diagramm can be given, if available.</p> <p>Note 1: The feasible application of the product in the building or of the material in a process or product respectively is described in the field 'technical purpose of product or process' (8); a reference to the corresponding section of the EPD can be given.</p> <p>Note 2: No general descriptions of the system boundaries according to EN 15804. Find further explanations and examples in FAQ.</p> | m | minor | <p>Give concentrated information about main technological aspects, to make the user understand the background of the LCA information in the data set. E.g.</p> <ul style="list-style-type: none"> • 1-2 sentences to describe the product if reasonable; • declaration of the main product components and/or materials; • short description of the manufacturing process with focus on product specific information which are relevant to understand the data set rather than general literature on the product group; • information on pre-products or raw materials if reasonable; • description of the construction process stage, use stage and end-of life stage if reasonable. | The products considered are Portland slag cement according to DIN EN 197-1. The product consists of Portland cement clinker and blastfurnace slag as well as sulfate carriers. The blastfurnace content is between 21 and 35 M .-%. | none | |
| A7.2 | Technical purpose of product or process | Text | <p>Brief description of the intended use / possible applications of the good, service, or process, e.g. for which type of products the material, represented by this data set, is used. For construction products the feasible applications in the building shall be given.</p> <p>Note: This corresponds to EN 15804, section 7.1 b) 'description of the construction product's use [...]'. Find further explanations and examples in FAQ.</p> | m | semantic | | CEM II/B-S 32,5 R can be used for all exposure classes according to DIN EN 206-1/DIN 1045-2. | none | |
| A7.3 | Pictogram of technology | Reference to source | "Source data set" of the pictogramme of the good, service, technology, plant etc. represented by this data set. | o | | | Construction_Composition_of_cement.jpg | none | |
| A7.4 | Flow diagramm(s) or picture(s) | Reference to source | "Source data set" of the flow diagramm(s) and/or photo(s) of the good, service, technology, plant etc represented by this data set. For clearer illustration and documentation of data set. | o | | | 24222....zementherstellung_engl.jpg | none | |

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| B | Modelling and validation | | | | | | | | |
| B1.1 | LCA methodology report | Reference to source | "Source data set" that represents the applied PCR document shall be attached; for generic data: equivalent document shall be attached, e.g. project report, general description of LCA methodology. Reference to the General Programme Instructions may be added if deemed necessary. | m | semantic | | | PCR_cement.pdf | adapted |
| B1.2 | Subtype | Enumerated list | Indicates the type of data set regarding its representativeness. One of the following predefined data types has to be chosen: - specific dataset - vendor (company) specific data for a specific product from one production site - average dataset - average datasets from industry associations, multiple manufacturers, multiple production sites or multiple products, i.e. modelled based on industry data from a manufacturer - representative dataset - data that is representative for a country or region (e.g. average for Germany) - template dataset - sample EPD, unspecific datasets for specific products, that were created based on a sample EPD - generic dataset - generic data acc. to EN 15804 and data based on other non-industry data sources (e.g. literature, expert knowledge) | m | | x | | generic dataset | none |
| B2 | Data sources, treatment, and representativeness | | | | | | | | |
| B2.1 | Data sources used for this data set | Reference to source | Here 2 "Source data sets" shall be referenced: 1. The respective "source" data sets representing the background data used (like GaBi or ecoinvent) shall be referenced. 2. In addition, the respective "source data set" representing the specific version of the background database shall be referenced. | m | semantic | | | GaBi Version 6.5 - 2015 - Environmental data from the cement industry, 2009 - Ecological Assessment of Construction Products and Buildings, 2000 | adapted |
| B2.3 | Reference to original EPD | Reference to source | A "Source data set" set representing the EPD document shall be attached. | m | | x | Previously defined under "Data sources" not applicable for generic data | | new |

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| B2.2 | Use advice for data set | Text | Specific methodological advice for users of the data set that requires attention; it shall be stated if any modules have not been declared, e.g. 'This data set does not comprise end of life (modules C1-C4) of the product.' A link to appropriate combinable datasets can be given. Find further explanations and examples in FAQ . | m | minor | | | With high coverage, the data set represents the average production conditions and the induced environmental impacts for Germany. If no specific data are available for the products used, the use of this data set is recommended. | none |
| B3 | Validation | | Information on verification according to ISO 14025 and EN 15804 | | semantic | | | | |
| B3.1 | Type of review | Enumerated list | Possibilities for type of review: - 'no verification / critical review' = not relevant for InData compliant data - 'internal verification / critical review (intra-company)' = only possibly relevant for generic data - 'dependent external verification / critical review (external reviewer is not verifiably independent from LCA expert or owner of enterprise)' = not relevant for InData compliant data - 'independent external verification / critical review (external reviewer who is verifiably independent from LCA expert or owner of enterprise)' = (choose this for verified external third party verification according to EN 15804) | m | minor | | For InData Compliance only the following option is accepted a) ...for EPD : - 'independent external verification / critical review (external reviewer who is verifiably independent from LCA expert or owner of enterprise)' b) ...for generic data also : - 'internal verification / critical review (intra-company)' (at least) Find further explanations in FAQ. | independent external verification | adapted |
| B3.5 | Documentation of data quality management | Reference to source | Document(s) can be attached ("source data set") describing quality assurance processes: quality requirements and measures taken to ensure they are actually met. | o | | | mandatory for generic data | | new |
| B3.2 | Review details | Text | Compilation of review results (verification or critical review) if of general interest. | o | semantic | | | | none |
| B3.3 | Reviewer name and institution | Reference to contact | "Contact data set" of reviewer(s) and reviewing institution(s) | o | | | | <u>LBP-GaBi / PE International / IBP-GaBi</u> <u>GaBi bug forum / GaBi user forum / GaBi user community</u> | none |
| B3.4 | Complete review report | Reference to source | "Source data set" of the complete review report if of general interest. | o | | | | | none |
| B4 | Compliance declarations | | | | | | | | |
| B4.1 | Compliance system name | Reference to source | Standard(s) and/or compliance system(s) that are declared to be met by the data set (e.g. EN 15804, EN 16485). The appropriate PCR shall be referred to in the data field 'LCA methodology report'. | m | minor | | For construction products data must be in conformity with EN 15804-A2, hence EN 15804-A2 must be referenced. | <u>ISO 14025</u> <u>EN 15804</u> <u>ISO 21930</u> <u>InData-CPEN2019</u> | none |

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| C | Administrative information | | | | | | | | |
| C1 | Commissioner and goal | | | | | | | | |
| C1.1 | Commissioner | Reference to Contact | "Contact data set" of the commissioner / financing party of the data collection / compilation and of the data set modelling. For groups of commissioners, each single organisation should be named. For data set updates and for direct use of data from formerly commissioned studies, also the original commissioner should be named. | o | | | | BBSR | new |
| C1.2 | Project | Text | (Construction) project within the framework of which the EPD was generated. | o | minor | | | This EPD has been created specifically for a tunnel project in Northern Norway. | new |
| C.1.3 | Intended Applications | Text | Documentation of the intended application(s) of data collection and data set modelling. This indicates / includes information on the level of detail, the specificity, and the quality requirement in the effort. | o | | | | | new |
| C2 | Data entry | | | | | | | | |
| C2.1 | Time stamp (last saved) | Time stamp | Date and time stamp of data set generation; no input to be given; is automatically produced | m | | | | 2014-08-08T15:24:23.515+02:00 | none |
| C2.2 | Data set format(s) | Reference to source | "Source data sets" of the used version of the ILCD format and EPD extensions. Will usually be filled in automatically by the software tool | m | | | | ILCD format 1.1 EPD Data Format Extensions | none |
| | Data entry by | Reference to Contact | Contact data of person who documented this data set Superseded by "Data set generator / modeller" | e | | | | | deleted |
| C2.3 | Data set generator / modeller | Reference to contact | "Contact data set" of the person(s), working group(s), organisation(s) or database network, that generated the data set, i.e. being responsible for its correctness regarding methods, inventory, and documentative information. | m | | | replaces 43 'Data entry by' | Gerald Newman | new |
| C3 | Publication and ownership | | | | | | | | |
| C3.1 | Date of last revision | Time stamp | Date when the data set was revised for the last time; typically manually set | o | | | | 2012-12-18T12:36:17+01:00 | none |
| C3.2 | Data set version | Version number | Version number of data set; is automatically generated. First two digits refer to major updates, the second two digits to minor revisions and error corrections etc. The last three digits are intended for automatic and internal counting of versions during data set development. Together with the data set's UUID, the "Data set version" uniquely identifies each data set. Find further explanations in FAQ . | m | | | | 00.03.000 | none |
| C3.3 | Preceding data set version | Reference to Process | UUID and version number of last preceding data set, which was replaced by this version. In addition, the URL of that data set (i.e. an internet address) can be given. | m | | | The implementation of this data field for the generic ÖKOBAUDAT data may take place after a delay. | | new |
| C3.4 | Publisher of the data set | Reference to Contact | Organisation which publishes the EPD data sets. | m | | x | | BBSR | new |
| C3.5 | Publication date of EPD | Date | Exact date of publication of the EPD in the form "YYYY-MM-DD". | m | | x | not applicable for generic data | | new |
| C3.6 | Issuer of the data set | Reference to Contact | "Contact data set" of the authority that has registered this data set (e.g. Program Operator) | m | semantic | | | sphera | new |
| C3.7 | Registration number | Text | ID number of EPD or project. Not relevant (and thus not mandatory) for generic data. | m | | | not applicable for generic data | | new |

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| C3.8 | Owner of data set | Reference to contact | "Contact data set" of the person or entity who owns this data set. Note: this is usually not the publisher of the data set. | m | | | | German Cement Association | |
| C3.9 | Copyright? | yes/no | Indicates whether or not a copyright on the data set exists. Decided upon by the "Owner of data set"; usually "yes". Find further explanations in FAQ . | m | | | | yes | new |
| C3.10 | License type | Enumerated list | Type of license that applies to the access and use of this data set: <i>Free of charge for all users and uses</i> <i>Free of charge for some user types or use types</i> <i>Free of charge for members only</i> <i>License fee</i> <i>Other</i> | m | | | Proposal: for InData compliant datasets, only values other than "License fee" and "Other" allowed | | new |
| C3.11 | Access and use restrictions | Text | Access restrictions / use conditions for this data set as free text or referring to e.g. license conditions. In case of no restrictions "None" is entered. | m | | | | | new |

| D | Inputs and Outputs | | List with results for the LCI Indicators, contains also the reference flow. Indicators according to EN 15804+A2 are listed at the end of this table. | | | | | | |
|------|--------------------|--------------------------|--|---|--|---|--|--|------|
| D1.1 | Indicator | Reference to LCIA method | Reference to the LCIA method dataset describing the indicator. | m | | | | | none |
| D1.2 | Module/Phase | Text | Module or phase according to EN 15804 (e.g. "A1-A3") | m | | x | | | none |
| D1.3 | Scenario | Text | References ID of a scenario defined above | o | | x | | | none |
| D1.4 | Value | Real | Value of the respective parameter | m | | x | | | none |
| D1.5 | Unit | Reference to unit group | Given as a function of the respective parameter | m | | x | | | none |

| E | LCIA results | | List with results for the LCIA Indicators according to EN 15804+A2 (see end of table for the list). | | | | | | |
|------|--------------|--------------------------|---|---|--|---|--|--|------|
| E1.1 | Indicator | Reference to LCIA method | Reference to the LCIA method dataset describing the indicator. | m | | | | | none |
| E1.2 | Module/Phase | Text | Module or phase according to EN 15804 (e.g. "A1-A3") | m | | x | | | none |
| E1.3 | Scenario | Text | References ID of a scenario defined above | o | | x | | | none |
| E1.4 | Value | Real | Value of the respective parameter | m | | x | | | none |
| E1.5 | Unit | Reference to unit group | Given as a function of the respective parameter | m | | x | | | none |

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| F | Product flow properties | | | | | | | | |
| F1 | Material properties | | <p>Declaration of relevant non-scaling physical product properties such as density etc. that are necessary for conversion to other dimensions or scaling of the LCA results</p> <p>The following material properties are currently supported:</p> <ul style="list-style-type: none"> - bulk density [kg/m³] kilograms per cubic metre - grammage [kg/m²] kilograms per square metre - gross density [kg/m³] kilograms per cubic metre - layer thickness [m] metres - productiveness [m²] square metres - linear density [kg/m] kilograms per metre - conversion factor to 1 kg (*) <p>(*) EN 15804 (clause 6.3.2 in EN 15804:2012+A1:2013; clause 6.3.4 in Draft EN 15804/prA 2017-11-23 respectively): 'For the development of scenarios, for example for transport and disposal, conversion factors to mass per declared unit shall be provided.'</p> | m | | x | <p>Recommendation: Declare at least the conversion factor to 1 kg and in addition as many material properties as appropriate for your product. LCA calculation tools for buildings operate with different declared units and conversion factors, most commonly used: indicators per kg in combination with density in kg/m³. Thus different data bases will prescribe corresponding material properties depending on the fed LCA calculation tool. Find further explanations in FAQ</p> | | new |
| F2 | Biogenic carbon content | Unit (EN) | | | | | | | |
| F2.1 | Biogenic carbon content in product | kg C | | m | | | If omitted according to EN 15804+A2, specify -1000 | | |
| F2.3 | Biogenic carbon content in accompanying packaging | kg C | | m | | | If omitted according to EN 15804+A, specify -1000 | | |

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| | Indicator name and abbreviation (EN) | Unit (EN) | | | | | | | |
| | Core environmental impact indicators | | | | | | | | |
| | Global Warming Potential - total (GWP-total) | kg CO2 eq. | | m | | | | | |
| | Global Warming Potential - fossil fuels (GWP-fossil) | kg CO2 eq. | | m | | | | | |
| | Global Warming Potential - biogenic (GWP-biogenic) | kg CO2 eq. | | m | | | | | |
| | Global Warming Potential - land use and land use change (GWP-luluc) | kg CO2 eq. | | m | | | | | |
| | Depletion potential of the stratospheric ozone layer (ODP) | kg CFC-11 eq. | | m | | | | | |
| | Acidification potential, Accumulated Exceedance (AP) | mol H+ eq. | | m | | | | | |
| | Eutrophication potential - freshwater (EP-freshwater) | kg PO4 eq. | | m | | | | | |
| | Eutrophication potential - marine (EP-marine) | kg N eq. | | m | | | | | |
| | Eutrophication potential - terrestrial (EP-terrestrial) | mol N eq. | | m | | | | | |
| | Photochemical Ozone Creation Potential (POCP) | kg NMVOC eq. | | m | | | | | |
| | Abiotic depletion potential - non-fossil resources (ADPE) | kg Sb eq | | m | | | | | |
| | Abiotic depletion potential - fossil resources (ADPF) | MJ | | m | | | | | |
| | Water (user) deprivation potential (WDP) | m3 world eq. deprived | | m | | | | | |
| | Additional environmental impact indicators | | | | | | | | |
| | Potential incidence of disease due to PM emissions (PM) | Disease incidence | | o | | | | | |
| | Potential Human exposure efficiency relative to U235 (IRP) | kgBq U235 Äquiv. | | o | | | | | |
| | Potential Comparative Toxic Unit for ecosystems (ETP-fw) | CTUe | | o | | | | | |
| | Potential Comparative Toxic Unit for humans - cancer effects (HTP-c) | CTUh | | o | | | | | |
| | Potential Comparative Toxic Unit for humans - non-cancer effects (HTP-nc) | CTUh | | o | | | | | |
| | Potential Soil quality index (SQP) | dimensionless | | o | | | | | |

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| | Indicators describing resource use | | | | | | | | |
| | Use of renewable primary energy as energy carrier (PERE) | MJ | | m | | | | | |
| | Use of renewable primary energy resources used as raw materials (PERM) | MJ | | m | | | | | |
| | Total use of renewable primary energy (PERT) | MJ | | m | | | | | |
| | Use of non renewable primary energy as energy carrier (PENRE) | MJ | | m | | | | | |
| | Use of non renewable primary energy resources used as raw materials (PENRM) | MJ | | m | | | | | |
| | Total use of non renewable primary energy resource (PENRT) | MJ | | m | | | | | |
| | Use of secondary material (SM) | kg | | m | | | | | |
| | Use of renewable secondary fuels (RSF) | MJ | | m | | | | | |
| | Use of non renewable secondary fuels (NRSF) | MJ | | m | | | | | |
| | Net use of fresh water (FW) | m ³ | | m | | | | | |
| | Environmental information describing waste categories | | | | | | | | |
| | Hazardous waste disposed (HWD) | kg | | m | | | | | |
| | Non hazardous waste disposed (NHWD) | kg | | m | | | | | |
| | Radioactive waste disposed (RWD) | kg | | m | | | | | |
| | Environmental information describing output flows | | | | | | | | |
| | Components for re-use (CRU) | kg | | m | | | | | |
| | Materials for recycling (MFR) | kg | | m | | | | | |
| | Materials for energy recovery (MER) | kg | | m | | | | | |
| | Exported electrical energy (EEE) | MJ | | m | | | | | |
| | Exported thermal energy (EET) | MJ | | m | | | | | |