

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.</p> <p>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_en.gl.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				LBP-GaBi / PE International / IBP-GaBi GaBi bug forum / GaBi user forum / GaBi user community	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.	ISO 14025 EN 15804 ISO 21930 InData-CPEN2019	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
C1.3	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"	o					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 P 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)	kBq 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)	m3		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					