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**Criteria for analysis of LCA software tools and databases for buildings – DRAFT 4.1**

<b>Author(s):</b> Catherine De Wolf (École Polytechnique Fédérale de Lausanne - CH) Mauro Cordella, Nicholas Dodd (JRC B.5, Seville - ES)	<b>Date:</b> 15 December 2020
<b>Summary:</b> In 2017 the European Commission developed Level(s), a framework for assessing the sustainability of buildings. This was accompanied by a list of LCA software tools and databases which Level(s) users could use to carry out their analyses. LCA tools and databases, as well as their characteristics, have been analysed further to provide Level(s) users with practical, user-orientated information about their scope, cost and accessibility. This document contains a revised list of LCA software tools and databases for buildings and a set of criteria to be possibly used for their analysis.	
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## **LIST OF ACRONYMS**

BIM	Building Information Modeling
EN	European Norms
EPD	Environmental Product Declaration
GHG	Greenhouse Gases
GWP	Global Warming Potential
LCA	Life Cycle Assessment
LCC	Life Cycle Costing
PEF	Product Environmental Footprint

## **1 INTRODUCTION**

The aim of this document is to provide a transparent and non-exhaustive list of LCA tools and databases which can be potentially used in different EU countries in support to the application of the [Level\(s\)](#) guidance, as well as recommendations of requirements that such tools and databases should embed.

The tools and databases have been classified according to a list of parameters and criteria addressing their comprehensiveness, robustness, and operability. Developers and users have been consulted in 2019-2020 to provide input with respect to tools and databases available on the market, relevant classification criteria and key characteristics of such tools and databases.

Any gap in the listing for each tool or database only indicates that the information was not provided to the JRC by the providers of the respective tools and databases, and this information may be possible to be obtained from their website and related documentation. To add or update information on tools and databases in the list please inform the Level(s) help desk: [jrc-b5-levels@ec.europa.eu](mailto:jrc-b5-levels@ec.europa.eu)

Please note that the classification is based on relevant information for users of the Level(s) guidance, but is not meant as a ranking system.

Furthermore, based on the analysis of results for the pilot phase of Level(s), it is recommended that tools and databases address the following characteristics in order to facilitate life cycle GWP and LCA calculations:

- User-friendliness, availability of training, and affordability
- Aligned with or support of the Level(s) framework
- Alignment of EPD data with EN 15804+A2, and availability of high-quality and industry-specific data
- Interoperability, plug-in info, import/export interfaces for relevant data formats (e.g. to read in data from BIM and other CAD systems, and to exchange LCI data).
- External independent and qualified review
- “Official” approval and validation of tools and databases by national authorities.

## **2 CRITERIA FOR THE ANALYSIS OF LCA SOFTWARE TOOLS AND DATABASES FOR BUILDINGS**

<b>Legend for the multiple options in the criteria list</b>	
I)	Mutually exclusive options: only one option to be picked-up
II)	
III)	
etc.	
a)	Multiple options: all the options that apply to be picked-up (more than one option is possible)
b)	
c)	
etc.	
•	Analysed sub-criteria: an answer to be provided for each bullet point
•	
•	
etc.	
Extra	Information on extra question(s) to be provided

Parameter	Software tools	Databases
<b>A. Comprehensiveness</b>		
A1) Construction-specificity	I) Construction-specific II) Broader scope	I) Construction-specific II) Broader scope
A2) System boundaries & scope	<ul style="list-style-type: none"> <li>Allowing the assessment of the following EN 15978 modules           <ul style="list-style-type: none"> <li>A0: 'Pre-construction stage'</li> <li>A1-A3: 'Product stage' (material extraction and processing, transport, manufacturing)</li> <li>A4-A5: 'Construction process stage' (transport to the building site, and installation)</li> <li>B1-B5: 'Use stage – building fabric' (use or application, maintenance, repair, replacement, refurbishment)</li> <li>B6-B7: 'Use stage - operation of the building' (operational energy and water use)</li> <li>B8: users' activities</li> <li>C1-C4: 'End-of-life stage' (de-construction &amp; demolition, transport, waste processing for reuse, recovery and/or recycling, disposal)</li> <li>D: 'Benefits and loads beyond the system boundary'</li> </ul> </li> </ul> <p>Extra: Separate reporting [Y/N]</p> <ul style="list-style-type: none"> <li>Databases used</li> <li>End of Life scenario information and modelling (if applicable)</li> <li>Languages available</li> </ul>	<ul style="list-style-type: none"> <li>Allowing the assessment of the following EN 15804 modules           <ul style="list-style-type: none"> <li>A1-A3: 'Product stage' (material extraction and processing, transport, manufacturing)</li> <li>A4-A5: 'Construction process stage' (transport to the building site, and installation)</li> <li>B1-B5: 'Use stage – building fabric' (use or application, maintenance, repair, replacement, refurbishment)</li> <li>B6-B7: 'Use stage - operation of the building' (operational energy and water use)</li> <li>B8: users' activities</li> <li>C1-C4: 'End-of-life stage' (de-construction &amp; demolition, transport, waste processing for reuse, recovery and/or recycling, disposal)</li> <li>D: 'Benefits and loads beyond the system boundary'</li> </ul> </li> </ul> <p>Extra: Separate reporting [Y/N]</p> <ul style="list-style-type: none"> <li>End of Life scenario information (if applicable)</li> <li>Countries covered</li> <li>Languages available</li> </ul>
A3) Indicators	<ul style="list-style-type: none"> <li>Full coverage of indicators set in EN 15978:2011 + additional PEF indicators</li> <li>Full coverage of indicators set in EN 15978:2011</li> <li>Full coverage of indicators set in EN 15978:2011</li> <li>Partial coverage of indicators set in EN 15978:2011 in addition to GHG emissions (please specify which indicators)</li> <li>GHG emissions only</li> </ul> <p>Extra: LCC coverage</p>	<ul style="list-style-type: none"> <li>Full coverage of indicators set in EN 15804:2012+A2:2019</li> <li>Full coverage of indicators set in EN 15804:2012+A1:2013</li> <li>Full coverage of indicators set in EN 15804:2012+A1:2013</li> <li>Partial coverage of indicators set in EN 15804:2012+A1:2013 in addition to GHG emissions (please specify which indicators)</li> <li>GHG emissions only</li> </ul> <p>Extra: LCC coverage</p>

A4) Modelling granularity	<p>Options for the assessment, from the most to the least detailed:</p> <ul style="list-style-type: none"> <li>a) Specific parts of the building</li> <li>b) Whole building, with enough flexibility to adapt to specificities of the building</li> <li>c) Whole building</li> </ul> <p>Note: a part can refer to one or more construction products</p>	<p>Options for the assessment, from the most to the least detailed:</p> <ul style="list-style-type: none"> <li>a) Building material</li> <li>b) Whole building part with enough flexibility to adapt to specificities of the product</li> <li>c) Whole building part</li> </ul> <p>Note: a part can refer to one or more construction products</p>
<b>B. Robustness</b>		
B1) Methodological adherence to Levels and EN standards	<p>I) Aligned with EN 15978 with extension to fit with Level(s)</p> <p>II) Aligned with EN 15978 – either based on self-declaration or external evaluation</p> <p>III) Not aligned for specific aspects</p> <p><b>Note: Class I recommended</b></p>	<p>I) Aligned with EN 15804 with extension to fit with Level(s)</p> <p>II) Aligned with EN 15804</p> <p>III) Not aligned for specific aspects</p> <p>Extra:</p> <ul style="list-style-type: none"> <li>• EN 15804:2012+A1:2013 or EN 15804:2012+A2:2019</li> </ul> <p><b>Note: Class I recommended</b></p>
B2) Data quality	<p>The tool supports:</p> <ul style="list-style-type: none"> <li>a) Reliability assessment of the quality of the data input</li> <li>b) Sensitivity analysis (e.g. check influence of parameters and datasets on results)</li> <li>c) Uncertainty analysis (e.g. check variability of results)</li> <li>d) Scenario analysis (e.g. check of alternative options)</li> <li>e) None of them</li> </ul>	<p>The database provides/enables data quality assessment for the following aspects:</p> <ul style="list-style-type: none"> <li>a) Geographical representativeness (e.g. local vs. EU/global average)</li> <li>b) Time-related representativeness (e.g. plausible until a certain year)</li> <li>c) Technological representativeness (e.g. material-specific vs. generic)</li> <li>d) Uncertainty analysis is supported (e.g. uncertainty distributions provided)</li> <li>e) None of them</li> </ul> <p>Extra: Specify whether the database provides data quality assessment or enables it when adapting a dataset.</p> <p><b>Note: The provision and use of high-quality and representative data (in terms of geography, time, technology, and accuracy) is recommended</b></p>

B3) Transparency and verification	<p>I) Sources of information, key data and modelling assumptions are trackable and verifiable, or have been documented in detail inside the software (data available and accessible at unit process level)</p> <p>II) Sources of information, key data and modelling assumptions are reported, but they are not trackable and verifiable nor they have been documented in detail inside the software</p> <p>III) Sources of information, key data and modelling assumptions are not documented inside the software</p> <p>Extra:</p> <ul style="list-style-type: none"> <li>• Proportion (%) of data that has been verified by a third party</li> <li>• National authority validation</li> </ul> <p><b>Note: Third party verification and national authority validation are recommended</b></p>	<p>I) Sources of information, key data and modelling assumptions are trackable and verifiable, or have been documented in detail (data available and accessible at unit process level)</p> <p>II) Sources of information, key data and modelling assumptions are reported, but they are not trackable and verifiable nor they have been documented in detail</p> <p>III) Sources of information, key data and modelling assumptions are not documented</p> <p>Extra:</p> <ul style="list-style-type: none"> <li>• Proportion (%) of data that has been verified by a third party</li> <li>• National authority validation</li> </ul> <p><b>Note: Third party verification and national authority validation are recommended</b></p>
<b>C. Operability</b>		
C1) Accessibility	<p>a) Web interface</p> <p>b) Excel-based tool</p> <p>c) Software to install on a computer/server</p> <p>Note: options not listed in a hierarchy order</p>	<p>a) Datasets provided at the detail level of unit processes</p> <p>b) System process datasets or EPDs providing elementary flows and/or quantified indicators ("black-boxes")</p> <p>c) Information locked in specific software</p>
C2) Data exchange & interoperability	<p>I) Import/export of design and LCA information possible</p> <p>II) Import/export of design information possible (e.g. BIM)</p> <p>III) Import/export of LCA information possible</p> <p>IV) No import/export possible</p> <p>Extra:</p> <ul style="list-style-type: none"> <li>• Provision of conversion factors between measurement units [Y/N]</li> <li>• Software-independency [Y/N]</li> </ul> <p><b>Note: Class I recommended</b></p>	<p>I) Import/export of LCA information possible (e.g. import new material EPDs into the database)</p> <p>II) No import/export possible</p> <p>Extra:</p> <ul style="list-style-type: none"> <li>• Provision of conversion factors between measurement units [Y/N]</li> <li>• Software-independency [Y/N]</li> </ul> <p><b>Note: Class I recommended</b></p>

C3) Cost	I) Freely available II) Available at a commercial price	I) Freely available II) Available at a commercial price
C4) Training and support	a) Demo version, documentation and/or initial training available for free b) Long distance learning offered c) After sale support offered (e.g. helpdesk) d) No training support  <b>Note: a+b+c recommended</b>	a) Demo version, documentation, and/or initial training available for free b) Long distance learning offered c) After care support offered (e.g. helpdesk) d) No training support  <b>Note: a+b+c recommended</b>
D. Additional information	Example: - Background information about maturity, development, management and update of the tool	Example: - Background information about maturity, development, management and update of the database - Breadth of the database: number of materials, types of construction materials and equipment covered, level of detail, level of adaptation provided.

### 3 LCA TOOLS FOR BUILDINGS

Target market	Tool	A1) Building-specific	A2) System boundaries & scope	A3) Indicators	A4) Modelling granularity	B1) Methodological adherence to	B2) Data quality	B3) Transparency and verification	C1) Accessibility	C2) Data exchange & interoperability	C3) Cost	C4) Training and support	D) Additional information
AT	<a href="#">ECO2SOFT</a>	I)	EN 15978 modules covered: A1-A3 A4 B4-B5 B6 C1-C4  <i>Extra:</i> - Separate reporting: yes - Databases used: not specified - Languages: German, English	IV) Partial coverage of indicators : PENRT, PENRE, PENRM, GWP100S, GWP100P, GWP100C, AP, EP, PERT, PERE, PERM, POCP, ODP  <i>Extra:</i> No LCC	c) including HVAC components	I)	a) b) different parameters are adjustable , as: service and useful life of the components, transportation distances, etc.	I)	a) Web interface	I) Import/export of design and LCA information possible using software  <i>Extra:</i> Software-independency [Y]	II) € 120 per year	a) c)	
BE	<a href="#">TOTEM</a>	I) Construction-specific	EN 15978 modules covered: A1-A3 A4-A5 B2 B4 B6 C1-4  <i>Extra:</i>	I)	b)	II)	d)	II) simplified way	a)	I)  <i>Extra:</i> Software-independency [Y] (Excel, IFC)	I)	a) c) helpdesk@totem-building.be + FAQs available in Dutch and French	

			- Cradle-to-grave - Databases used: national database and Ecoinvent 3.3 - Languages: English, French, Dutch										
CH, FR, LX (mainly )	<a href="#">Lesosai</a>	I)	EN 15978 modules covered: A1-A3 A4 B1-B4  Extra: Databases used: adapted to the label request of Minergie, ECO, DGNB, BREEM, Lenox Languages available French, German, Italian, English	IV) For Switzerland and generic: NRE, CED, GWP, NRE, UBP  For Luxembourg: IEnv, Iprim, IEco, IEco12	b)	I) / II) depending on needs	d) Scenario analysis	I) Weblinks provided	c)	I) <i>Extra:</i> Software-independent [Y]: BEM: gbXML. In 2020 BIM: IFC. However, also software-dependent formats (e.g. Revit)	II) First 2 years licence, 3 computers: € 1550. From third year, € 690 yearly	a) b) c)	Exists since 1984 Integrates LCA calculation since 2009
CH	<a href="#">Enerweb 380/1 eco</a>	I)	EN 15978 modules covered: A1-A3 A4-A5 C1-C4  Extra: Databases used: the material data can be added/modified by the user or is based on the KBOB list Languages available: German	Unknown	a)	III) Not aligned for specific aspects: "Enerweb 380/1 eco" is aligned to SIA 2032 only	b)	I)	a)	I) <i>Extra:</i> Software-independent [N]	II)	a) b) c)	
DE	<a href="#">CAALA</a>	I)	EN 15978 modules A1-A3 B4 B6 C3-C4 D  <i>Extra:</i> D optionally	III) GWP and PENRT  <i>Extra:</i> LCC coverage: In the current	a) b) c)	II)	d)	I) With expert license	a) c)	I) <i>Extra:</i> Software-independent [Y] plugin, gbXML import/export, export to eLCA/eBNB/DGN	I) / II) (freemium)	a), b) & c)	

			Databases used: oekobau.dat Languages available: English, German, Dutch	version, the user has to input the investment costs for the building construction per m <sup>2</sup> of element. Energy costs and Net Present Value are calculated automatically. Further development expected in the future					B/energy simulation)				
DE & others	GaBi	I) II)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes Databases used: <b>not specified</b> Languages available: German/English	I) a)	I)	a) (e.g. DQI) b) c) (e.g. Montecarlo) d)	I) fully implementation of ILCD format, InData format (German EPD format extension), EcoSpold I format	a) c) Gabi Desktop, GaBi Server + online extensions	I)  <i>Extra:</i> Conversion factors are provided (and flow mappings at import and export to/from ILCD/EF2.0). GaBi has moreover a comprehensive dataset import functionality to manage all objects individually for overwrite, merge, keep local content, or import copy, allows in pre-import	II)	a) b) c)		

DE & others	<a href="#">Gemis</a>	Generic											
DE & others	<a href="#">openLCA</a>	II)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes Databases used: <b>not specified</b> Languages available: English	I)	c)	II) depending on used datasets	a) b) c) d)	I)	c)	I)	Extra: Provision of conversion factors [Y, since version 1.9]  Extra: Software-independent [Y]	I)	a) b) c)
DE	<a href="#">SBS</a> Will be replaced by Generis	I)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes Databases used: <b>not specified</b> Languages available: German	III)	a)	II) evaluated by BRE	b)	I) full level of detail as provided by ökobau.dat	a)	I) but not automatic	I)	a), b)	
DE & others	<a href="#">Generis</a>	I)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes Databases used: <b>not specified</b> Languages available: German	I)	a)	II) However, applied databases and EPDs do not yet allow a full quantification of them	b)	I) Full level of detail as provided by ökobau.dat and EPDs, tagging system and commenting system available	a)	I) Extra: Software-independent [Y]	I) Freely available base version II) Full functionality available at commercial price (e.g. BIM-interface)	a) b)	Beta version online, full version launched in October 2019  Fully compliant with EN

					d for full version								15804, specific modelling of refurbishment and existing building possible
DE & others	<a href="#">Umberto</a>	II)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes Databases used: <b>not specified</b> Languages available: German, English	III)	a)	II)	b) d)	I)	c)	I)	<i>Extra: Software-independent [Y]</i>	II)	a) b) c)
DE	<a href="#">eLCA</a>	I) II)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes Databases used: <b>not specified</b> Languages available: German, English, Spanish	I)	a)	I)	a) b)	I)	a) b) c)	I)	<i>Extra: Software-independent [Y]</i>	I)	a)
ES	<a href="#">CYPE</a> <a href="#">Arquímedes</a> <a href="#">CYPE Generador de Presupuestos</a>	I)	EN 15978 modules covered: A1-A3 A4-A5  <i>Extra:</i> Separate reporting: Yes Databases used: <b>not specified</b> Languages available: Spanish	IV)	b)	II)	b) d)	II)	c)	I)	<i>Extra: Software-independent [Y]</i>	II)	a) b) c)

Field Code Changed

Field Code Changed

ES	<a href="#">TCQIGMA</a>	I)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D (will be included)  <i>Extra:</i> Separate reporting: Yes Databases used: <b>not specified</b> Languages available: Spanish, Catalan	III) Expected to achieve I) during the next months	a) c)	I)	e) none of them	I)	a)	I) <i>Extra:</i> No conversion factors provided II) <i>Extra:</i> Software-independent [Y]	II)	a) b) c)	
EU, US, others	<a href="#">One Click LCA</a>	I)	EN 15978 modules covered: A1-A3 A4-A5 B1-B4 B5-B6 C1-C4 D  <i>Extra:</i> Separate reporting: yes Databases used: different tools with varying scopes – some more simplified than others Languages available: English	II) PEF indicators being added	a) b) c)	I)	a) c) d)	I)	c) SaaS cloud software	I) <i>Extra:</i> Software-independent [Y/N]	II)	a) b) c)	
EU, US, others	<a href="#">Carbon Designer</a>	I)	EN 15978 modules covered: A1-A3 A4-A5 B4-B5 B6 C3-C4  <i>Extra:</i> Separate reporting: <b>not specified</b> Databases used: <b>not specified</b> Languages available: English	V) GHG emissions	c)	I)	a) d)	II)	c)	I) <i>Extra:</i> Software-independent [Y]	I) Freely available in limited countries and regions II) Available at a commercial price elsewhere	a a) b) c)	
FI	<a href="#">SULCA</a>	II)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4	I)	a)	III)	b) c) d)	I)	c)	I) <i>Extra:</i> Software-independent [Y]	II)	a) b) c)	

			D									
			<i>Extra:</i> Separate reporting: Yes Databases used: <b>not specified</b> Languages available: English									
FR	<a href="#">ArchiWizard</a>											
FR	ClimaWin											
FR	<a href="#">COCON</a>	I)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4  <i>Extra:</i> Separate reporting: Yes Databases used: INIES, OKOBAUDAT, KBOB, EPD Online Languages available: English, French, Spanish	III)	a)	I)	d)	I)	c)	I)	II)	a) b) c)
FR	<a href="#">EIME</a>	II)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes Databases used: database developed for more than 20 years, updated at least once per year Languages available: English	II) Additiona l PEF indicators I) in preparatio n	b)	III)	b) d)	II)	a)	I)	II)	a) b) c)
FR	<a href="#">ELODIE</a>	I)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D	I)	b)	I)	e)	II)	a)	I)	II)	c)

			<i>Extra:</i> Separate reporting: Yes Databases used: <b>not specified</b> Languages available: French, English									
FR	EQUER (included in Pleiades ACV)	I)	EN 15978 modules A1-A3 A4-A5 B4 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes Databases used: INIES, ecoinvent Languages available: French	I) EN 15804 LCA indicators + PEF, requiring ecoinvent because in INIES LCI are uncomplete (168 flows)	b) I) b) c) d)		II)	c)	I) <i>Extra: Software-independent [Y] From BIM</i>	II)	a) c)	
FR	ThermACV											
FR	Vizcab Explor	I)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting [Y/N] N Databases used: INIES database Countries covered: France Languages available: French and English	III) Extra: LCC coverage : Yes	c) II) b) d)		II)	a)	IV) Note: options not listed in a hierarchy order	II)	a) b) c)	
FR	Vizcab Eval	I)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i>	III) Extra: LCC coverage : Not available	a) b) c)		II)	a)	III) Extra: Provision of conversion factors between measurement units [Y/N] N	II)	a) b) c)	

			Partially separate reporting available: A1-A3; A4-A5; B1-B7; C1-C4; D Databases used: INIES database Countries covered: France Languages available: French and English									
NL	<a href="#">GPR Gebouw</a>	I)	EN 15978 modules A1-A3 A4-A5 B1-B5 B6-B7 C1-C4  <i>Extra:</i> Separate reporting: [Y/N] Databases used: National database (NMD) Languages available: Dutch only	IV) ADP, GWP, ODP, POP, AP, EP, HT, ET	b) c)	II)	b) d)	II)	a)	IV)	II)	a) b)
NL	<a href="#">GreenCalc+</a>	I)										
NL	<a href="#">MPGCalc (DGMR)</a>	I)										
NL	<a href="#">MRPI MPG-software</a>	I)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: data is retrievable (only data can be extracted which is allowed and available by the database). ECI (Environmental Cost Indicator) is calculated in total and per module. Databases used: Dutch Environmental database Languages available: Dutch (first release)	IV) ADP, GWP, ODP, POP, EP, HT, ET  <i>Extra: No LCC</i>	c) Accordin g to NL/SfB 2015 classifica tion	II)	The database is responsible for the quality and reliability of the data. The first version will produce the final outcome which is required for the building permit. Later	The source of information is the Dutch Environmental Database which is responsible for the transparency and verification. The tool shows data that is verified and data that is not verified.	a)	IV) The LCA data is imported from the Dutch Environmental Database. No other import of LCA data is allowed. No conversion factors. Import of design could be via BIM but this is not currently build.	I)	d)

NL & others	<a href="#">SimaPro</a>	II)	EN 15978 modules covered: A1 – A3 A4 – A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes (Several options are available for automatic reporting with the SimaPro tool suite. They all need configuration before being readily usable) Databases used: See <a href="https://support.simapro.com/articles/FAQ/Which-databases-are-included-in-SimaPro/">https://support.simapro.com/articles/FAQ/Which-databases-are-included-in-SimaPro/</a> Languages available: The SimaPro online platform (SimaPro Flow, Collect, Share...) is available in English. SimaPro 9 is available in: English US & UK, Chinese simplified & Traditional, Danish, Dutch, French, German, Italian, Japanese, Portuguese PL & BR, Spanish and Swedish	I)	a)	I)	version could include a) – d)	I)	a) b) c) d)	III)  <i>Extra:</i> Provision of conversion factors between measurement units [Y] <i>Extra:</i> Software-independent [Y/N]	II)	a) b) c)
NL	DuboCalc	I)										
NO	<a href="#">Klimagassregnskap</a>	I)										
SE	<a href="#">Anavitor</a>	I)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting [Y/N]	II)	c)	I)	a) b) c) d)	II)	c)	I)  <i>Extra:</i> Provision of conversion factors [Y] <i>Extra:</i> Software-independent [Y/N]	I)	a) b) c)

			Databases used: <b>not specified</b> Languages available: Swedish										
SE	<a href="#">BM Tool or Byggsektorns miljöberäkningsverktyget (BM 1.0)</a>	I)	EN 15978 modules covered:  A1-A3 A4-A5  <i>Extra:</i> Databases used: not specified Languages available: Swedish	V) GWP	a)	II)	Q meta report included Please specify	I) Verification is voluntary.	c) An app that is downloaded and then communicating with BM web service	II) <i>Extra:</i> Bill of Resources are possible to import from external software used in Sweden for cost calculations like MAP, Sektionsdata, SPIK and VICO that also included ifc (BIM files)	I)	b)	Construction sector's Environmental Calculation tool Adopted to forthcoming mandatory climate declaration for new buildings in Sweden with start from January 2022
SE	<a href="#">BECE (Basic Energy and CO<sub>2</sub> Estimations for Buildings)</a>	I)	EN 15978 modules covered:  A1-A3 B1 B4-B5 B6 C1 partly D partly  <i>Extra:</i> Separate reporting: Yes Databases used: A compilation of emission data for 100 common building material and 32 energy carriers. Mainly generic data. This can be expanded but the purpose is not to make it complete but rather show main properties of different types of materials and energy sources Languages available: Swedish (some English)	V) Prepared for the other indicators	a)	I)	d)	I)	b)	IV) Building data is obtained from drawings and a number of type constructions. In early design stages, when the tool is intended to be used, no specified information about the building is available. The location and the size are enough to start calculating. A bill of materials is shown.	I)	d)	It is intended to be used in early design phases. Energy use, climate impact and cost for energy use is calculated from a few input data. The default values are easily changed

Europe	<a href="#">CCaLC Tool</a>	II)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting [Y/N] Databases used: Ecoinvent V2.2 and CCaLC databases Languages available: English	IV) GWP, AP, EP, HT, POP, ODP	c)	I)	a) b) d)	I)	c)	III) <i>Extra:</i> Software-independent [Y/N]	I)	a)		and alternative energy and construction solutions can easily be tested.	
UK, DE (EU)	<a href="#">eToolLCD</a>	I)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes Databases used: Languages available: English	III)	a) b) c)	I)	a) check of cut-off rules b) d)	I)	EcoSpold format	a)	I) II)		a) b) c)		
Worldwide	<a href="#">TEAM™</a>	II)	EN 15978 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes	I)	b)	I)	a) b) d)	I)	Information fields are mapped on ELCD requests	c)	I) II)	<i>Extra:</i> Software-independent [N] (UTF8 txt file) New clients of TEAMTM 5.x – main offer € 4500	b) c)		

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		Databases used: TEAM™ 5.x allows the LCA practitioner to build and use large databases to model and analyze any system representing the operations associated with products and processes. Starter Kit version 5.0 covering major utilities such as energies, transportation, packaging and some common raw materials. Compatibles databases: Ecoinvent (licences at additional cost), ELCD, NREL Languages available: English				for all data in the tool				Specific offer for University licence, Consulting licence		
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#### 4 LCA DATABASES FOR BUILDINGS

Target market	Database	A1) Building-specificity	A2) System boundaries & scope	A3) Indicators	A4) Modelling granularity	B1) Methodological adherence to Level(s) and EN standards adherence	B2) Data quality	B3) Transparency and verification	C1) Accessibility	C2) Data exchange & interoperability	C3) Cost	C4) Training and support	D) Additional information
EU	<a href="#">ESU CO</a>												
EU	<a href="#">Eur opea n Alu mini um EPD Prog ram me</a>	I) EN 15804 modules covered: A1-A3 C1-C4 D  Extra: Separate reporting: Yes Primary natural resources covered: only for building products containing aluminium as main raw material Countries covered: Europe Languages available: English	II) c)		II) a) b) c)	I) Third-party verified	b)	II)	I)	d)			
EU	<a href="#">LC DN - EU-Funded Researc h - Sma ll</a>												

		Data Provider's Data base											
EU, US, other	<a href="#">One Click LC A data base</a>	I) EN 15804 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting [Y/N] Primary natural resources covered: <b>not specified</b> Countries covered: EU, US, other Languages available: English	II) PEF indicators being added a) b) c)	I)	a) b) c) d)	I) Third-party verified for vast majority of the database  II) For limited part of the database (where best quality level data not available)	b)	I)	II)	b) c)			
AT	<a href="#">Bau EPD</a>	I) EN 15804 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes Primary natural resources covered: <b>not specified</b> Countries covered: <b>not specified</b> Languages available: German, English	Now: III) Future: I)	c)	II) Future I) a) b) c) d)	I)	b)	I)	I)	d)			

AT	<u>IBO LC</u> <u>A</u> <u>data</u> <u>base</u>	II)	EN 15804 modules covered: A1-A3 A4 B6-B7 C1-C4  <i>Extra:</i> Separate reporting [Y/N] Primary natural resources covered: <b>not specified</b> Countries covered: <b>not specified</b> Languages available: German, English	I)	a) c)	I)	c)	III)	a) b)	I)	<i>Extra:</i> Provision of conversion factors between measurement units [Y/N] <i>Extra:</i> Software-independent [Y]	I)	d)		
AT	<u>Bau</u> <u>boo</u> <u>k</u>	I) II)	EN 15804 modules covered A1-A3 A4 B6-B7 C1-C4  <i>Extra:</i> Separate reporting [Y/N] Primary natural resources covered: <b>not specified</b> Countries covered: <b>not specified</b> Languages available: German, English	IV)	PENRT, PENRE, PENRM, GWP10 0 S, GWP10 0 P, GWP10 0 C, AP, EP, PERT, PERE, PERM, POCP, ODP	a)	I)	c)	III)	a)	I)	<i>Extra:</i> Provision of conversion factors between measurement units [Y/N] <i>Extra:</i> Software-independent [N]	I)	d)	
BE	B-EPD data base of the Belgian Federal	I)	EN 15804 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i>	I)	a)	I or II)?	a) b) c)	"pass/fail" system for Belgium	I)	b)	I) Import via a specific XML was possible and is currently being updated.	I)	d) Training under development	The database can include digitalized information on application of the material and product in a building; e.g. ratio of a	

	Public Service of Health & Environment. <a href="http://www.b-epd.be">www.b-epd.be</a>	Separate reporting: Yes How Totem deals with missing modules is communicated on the website www.b-epd.be , stimulating manufacturers to also declare those Primary natural resources covered: <b>not specified</b> Countries covered: the manufacturer can declare scenarios for multiple countries in his EPD and in this database. This option has not yet been used however. Languages available: The field names are available in 3 languages: Dutch, French and English. The data are to be provided in one of the 3 languages, with a possibility to include translations for those text fields used by Totem.						Export possible for the owner of the EPD and for the building calculator TOTEM.  Extra: Provision of conversion factors between measurement units [Y/N] Extra: Software-independent [Y/N]		product in its application. We also recommend to include ancillary materials for installation. It is also flexible enough to include whole building components (option c) e.g. m <sup>2</sup> of outer brick wall with mortar of type X and thickness Y.
CH	EcoInvent	II) EN 15804 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  Extra:	IV) a)	II) a) b) c) d)	I) Third-party verified. Unit-process datasets provided, can be accessible by guest users	a) b)	I) Extra: Provision of conversion factors between measurement units [Y/N]	II) a) c)		

			Separate reporting: Yes with appropriate modelling Primary natural resources covered: most construction materials covered Countries covered: global coverage, also country specific data Languages available: English						<i>Extra:</i> Software-indepen- dent [Y] Exchange possi- ble in python				
CH, LX, mainly	<u>Mat- erial s Data base</u>	I) II)	EN 15804 modules covered: A1-A3 B1-B4  <i>Extra:</i> Separate reporting: [Y/N] Primary natural resources covered: many kinds of building materials, 33 providers Countries covered: Switzerland and Luxemburg (but data can be used in other countries) Languages available: French, German, English	IV) For Switzerl and and generic: NRE, CED, GWP, NRE, UBP  For Luxemb urg: IEnv, Iprim, IEco, IECO12	a)  II)	a) Data are local, integration of different database b) different version of database, for example for Switzerland version: 2011, 2012, 2014, 2016	I) Sources of information and key assumptions are systematically tracked and third-party verified II) Sources of information and key assumptions are described	b)	I)  <i>Extra:</i> Provision of conversion factors between measure- ment units [Y/N] II) 5000C HF for 3 years for Materi als provid er	I) free for softwa re and user II)	a)		
CH	<u>Eco- bau and KB OB</u>  corr ect	I)	EN 15804 modules covered: A1-A3 B1-B5 B6-B7 C1-C4  <i>Extra:</i>	IV) Namely cumulati ve energy demand non-	a)  b)	II) except for the environmental indicators	a) b) c) d)	I) Sources of information and key data and modelling assumptions are systematically trackable and verifiable or can be documented in detail	b)	I)  <i>Extra:</i> Provision of conversion factors between	I)	d)	

nam ing: KB OB reco mm enda tion 200 9/1: 201 6  Bot h web sites lis te d in your mot her doc ume nt ("K BO B" and "eco bau" ) refer to the iden tical data base . The data are offer ed	Primary natural resources covered: <b>not specified</b> Countries covered: Switzerland Languages available: German, French, English	renewabl e cumulati ve energy demand renewabl e greenho use gas emission s eco- points accordin g to the ecologic al scarcity method			inside the software - data available and accessible on unit process level	measurem ent units [Y/N] <i>Extra:</i> Software- independe nt [Y/N]			
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	on two different web sites .											
DE	<a href="#">Oekobaudat</a>	I) II)	EN 15804 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting [Y/N] Primary natural resources covered: <b>not specified</b> Countries covered: <b>not specified</b> Languages available: German, partially English	I)	a)	I)	a) b) c)	I)	b)	I)	I)ILC D+EP <i>Extra:</i> Provision of conversion factors between measurement units [Y/N] <i>Extra:</i> Software-independent [Y/N]	d)
DE, Other	<a href="#">GaBi Data base s</a>	II)	EN 15804 modules covered: A1-A3 A4-A5 B1 B2-B5 few data B6-B7 C1 few data C2-C4 D  <i>Extra:</i> Separate reporting Depending on the data sets, often further differentiated (e.g. A1 separately), typically	IV) all EN 15804:2 012 LCIA indicators, all new EN 15804:2 019 (release 9 July) LCIA indicators, and all EF 2.0 and EF	a)	III)	a) b) c) d) Uncertainty analysis (DQI under ILCD DN and EF 2.0)  Moreover, data and model consistency is ensured for all thinkstep GaBi data and mostly for the wide range of industry-association data provided via GaBi.	I) Third-party verified by DEKRA	a)	I)	II)	a) b) c)

			A1-A3, in few cases A1-A5 jointly. Primary natural resources covered: Around 10000 data sets (in addition to the GaBi construction and energy databases; see separate entries), for materials from all kinds of industries Countries covered: all kinds of countries worldwide, with a certain focus on European countries and EU mixes. Languages available: English, German	3.0 impact indicator s. wide range of other impact methods for sensitivity checks or reporting e.g. in US (Traci).					ILCD/EF2.0 <i>Extra:</i> Software-independent [Y/N]form at GaBi tsx		
DE, Other	<a href="#">GaBi 1 Construction Materials database</a>	I)	EN 15804 modules covered: A1-A3 A4-A5 B1 B2-B5 few data B6-B7 C1 few data C2-C4 D  <i>Extra:</i> Separate reporting [Y/N] Primary natural resources covered: Over 2600 data sets for materials, semi-finished products and final construction products and complex products Countries covered: many European countries, EU mixes.	D all EN 15804:2 012, all new EN 15804:2 019 (release 9 July), and all EF 2.0 and EF 3.0 impact indicator s. wide range of other impact methods for sensitivity checks or reporting e.g. in	a)  II)  a) b) c) d) Via DQI under ILCD DN and EF 2.0	I) Third-party verified by DEKRA	a)	I)  <i>Extra:</i> Provision of conversion factors between measurement units [Y] flow mappings at import and export to/from ILCD/EF2.0 <i>Extra:</i> Software-independent [Y/N]	II)	a) b) c)	The German Ökobaudat Federal construction database is predominantly based on GaBi Construction data sets. GaBi construction database has a more comprehensive coverage of materials and products and country-variants and moreover offers the full life cycle inventory for all data sets.

			Languages available: English, German	US (Traci).								
DE, Oth er	<a href="#">GaB i Ener gy data base</a>	II)	EN 15804 modules covered: N/A  Extra: Primary natural resources covered: Over 1300 data sets. Countries covered: many country-specific data on B6, for EU member states and many countries and regions worldwide – electricity also from individual power plant types incl. renewables. Also heat from different energy carriers, e.g. for depicting district heating Languages available: English, German	IV) all EN 15804:2 012 LCIA indicator s, all new EN 15804:2 019 (release 9 July) LCIA indicator s, and all EF 2.0 and EF 3.0 impact indicator s. wide range of other impact methods for sensitivity checks or reporting e.g. in US (Traci).	a)	III) Aligned with ISO 14040/14044, ILCD DN entry-level. However, modelling equivalent with requirements for A1-A3 under EN 15804:20112 and EN 15804:2019	a) b) c) d) Via DQI under ILCD DN and EF 2.0	I) Third-party verified by DEKRA	a)	I) <i>Extra:</i> Provision of conversion factors between measurement units [Y] flow mappings at import and export to/from ILCD/EF2 .0 <i>Extra:</i> Software-independent [Y/N]	II)	a) b) c)
DE, Oth er	<a href="#">Free GaB i data</a>	II)	EN 15804 modules covered A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D	IV) all EN 15804:2 012 LCIA indicator s, all new EN 15804:2	I)	III) Aligned with ISO 14040/14044, ILCD DN entry-level. However, for energy carriers and transport data sets modelling	a) b) c) d) via DQI under ILCD DN and EF 2.0	I) Third-party verified by DEKRA	a) ILCD format and EF 2.0 flow list.	I) <i>Extra:</i> Provision of conversion factors between measurement	I)	a)

			<i>Extra:</i> Separate reporting [Y/N] Primary natural resources covered: over 1600 data sets – energy carriers, transport and waste treatment processes, key materials Countries covered: many country-specific data Languages available: English, German	019 (release 9 July) LCIA indicators, and all EF 2.0 and EF 3.0 impact indicators. wide range of other impact methods for sensitivity checks or reporting e.g. in US (Traci).	equivalent with requirements for A1-A3 under EN 15804:20112 and EN 15804:2019				<i>Extra:</i> Software-independent [Y] ILCD				
DE	<a href="#">IBU</a>	I)	EN 15804 modules covered: A1-A3 is a minimum; many datasets cover additional modules, some all applicable modules  <i>Extra:</i> Primary natural resources covered: All construction products plus a number of construction-related products not covered by CPD Countries covered: There is a clear majority of German producers, but non-	III) as minimum	a)	I)	a) b) c)	I) Third-party verified	b)	I)  <i>Extra:</i> Provision of conversion factors between measurement units [Y/N] <i>Extra:</i> Software-independent [Y] IBU's own digital database, IBU.data, uses the	I / II IBU.data uses ILCD+ EPD data format. The datasets are freely available. The publication however is bound by fees.	a) c)	

			German producers make up around 35% of the members Languages available: German, English						ILCD+EP D data format			
DK	<a href="#">EPD Danmark</a>	I)	EN 15804 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting [Y/N] Primary natural resources covered: <b>not specified</b> Countries covered: <b>not specified</b> Languages available: Danish, English	III) c)	II)	a) b) c)	I)	b)	II)	I)	d)	
ES	<a href="#">CY PE Gen erador de Prec ios</a>	I)	EN 15804 modules covered: A1-A3 A4-A5  <i>Extra:</i> Separate reporting: Yes Primary natural resources covered: construction materials Countries covered: Spain, France, and Portugal Languages available: Spanish, Catalan, French, Portuguese	IV) b)	II)	a) c)	II)	b)	I)	II)	a) b) c)	 <i>Extra:</i> Provision of conversion factors between measurement units [Y/N] <i>Extra:</i> Software-independent [Y/N]
ES	<a href="#">DA P cons</a>	I)	EN 15804 modules covered: A1-A3	II)	a)	II)	a) b) c)	I)	b)	II) Soon change to	I)	c)

	<u>truc ción</u>	- specific	A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: No Primary natural resources covered: construction materials Countries covered: any Languages available: Spanish, Catalan, English			d)			export possible			
ES	<u>Aen or Glo bal EPD</u>											
ES	<u>ITE Cs BE DE C data base</u>	I) Constr uction - specifi c	EN 15804 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4  <i>Extra:</i> Separate reporting: Yes Primary natural resources covered: <b>not specified</b> Countries covered: <b>not specified</b> Languages available: Spanish, Catalan	III) a) c)	I)	a) c)	I) II)	a) b)	I)  <i>Extra:</i> Provision of conversion factors between measurem ent units [N] <i>Extra:</i> Software- independe nt [Y]	II)	a) b) c)	
FR	<u>Bas e carb one</u>	II)	EN 15804 modules covered: A1-A3	V)	I)	III)	a) b)	I)	b) System process data sets or EPDs  <i>Extra:</i> Provision	I)	I)	a)

	<u>AD</u> <u>EM</u> <u>E</u>	Extra: Primary natural resources covered: <b>not specified</b> Countries covered: <b>not specified</b> Languages available: French, English							of conversion factors between measure ment units [Y/N] <i>Extra:</i> Software- independe nt [Y/N]			
FR	<u>DIO</u> <u>GE</u> <u>N</u>	I)  EN 15804 modules covered: A1-A3  Extra: Primary natural resources covered: <b>not specified</b> Countries covered: <b>not specified</b> Languages available: French, English	III) Full coverage of indicator s set in EN 15804:2 012 + NF EN1580 4/CN	a)	II)	a) b) c)	I) II)	b)	II)	I)	d)	
FR	<u>INI</u> <u>ES</u>	I)  EN 15804 modules covered: A1-A3 A4-A5 B1-B5 C1-C4 D  <i>Extra:</i> Separate reporting [Y/N] Primary natural resources covered: <b>not specified</b> Countries covered: <b>not specified</b> Languages available: French, English	II)	a)	II)	a) b) c)	I)	b)	I)	I)	c)	
IT	<u>EPD</u> <u>Italy</u>	I)  EN 15804 modules covered:	III)	a)	II)	The quality of the published EPDs are	I)	b)	II)	I)	d)	

			A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting [Y/N] Primary natural resources covered: <b>not specified</b> Countries covered: <b>France</b> Languages available: Italian, English				defined into the document PCR used.						
LU	<a href="#">Leitf aden data base</a>	I)	EN 15804 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes Assessment of buildings and civil works following the EN 15804 modules A – D and specific Dutch scenario's Primary natural resources covered: yes Countries covered: Netherlands	III)	c)	I)	<i>LCA environmental data for de Dutch database must be drawn up following a public assessment protocol</i>	I)	c)	I)	II)	d)	
NL	<a href="#">Milie euda taba se</a>	I)	EN 15804 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting: Yes Assessment of buildings and civil works following the EN 15804 modules A – D and specific Dutch scenario's Primary natural resources covered: yes Countries covered: Netherlands	III)	c)	I)	<i>LCA environmental data for de Dutch database must be drawn up following a public assessment protocol</i>	I)	c)	I)	II)	d)	

			Languages available: Dutch										
NO & othe rs	<a href="#">EPD Nor ge</a>	I)	EN 15804 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting [Y/N] Primary natural resources covered: EPD-Norge Digi Countries covered: <b>not specified</b> Languages available: Norwegian, English	Accordi ng to EPD	a)  III)	The quality of the EPD depends on the EPD	Yes, according to ISO 14025 and EN 15804	b)	I)  <i>Extra:</i> Provision of conversion factors between measurem ent units [Y/N] <i>Extra:</i> Software- independe nt [Y] ILCD+EP D format, in accordance with InData	I) uses ILCD+ EPD data format	d)		
PL	<a href="#">ITB ± EPD</a>												
PT	<a href="#">DA P Hab itat</a>												
SE	<a href="#">Inte rnat ional EPD AB</a>	I)	EN 15804 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting [Y/N]	I – III) accepted	a) b) c)	II)	a) b) c)	I)	b)	I)  <i>Extra:</i> Provision of conversion factors between measurem ent units [Y/N] <i>Extra:</i> Software-	I)	d)	

			Primary natural resources covered: <b>not specified</b> Countries covered: Scope according Product represented in EPD and country of focus by EPD owner/manufacturer Languages available: English						independe nt [Y] Extra: N *working with ILCD + EPD format (.xml)				
UK	<a href="#">BR E Veri fied EN 158 04 EPD</a>	I)	EN 15804 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1,C4 D  <i>Extra:</i> Separate reporting [Y/N] Primary natural resources covered: <b>not specified</b> Countries covered: <b>not specified</b> Languages available: English	See PCR (e.g. section 5). See 'BRE Global Product Category Rules (PCR) For Type III EPD of Construction Products to EN15804+A1' <a href="http://www.greenbooklive.com/filelibrary/EN_15804/PN514-BRE-EN-15804-PCR.pdf">http://www.greenbooklive.com/filelibrary/EN_15804/PN514-BRE-EN-15804-PCR.pdf</a>	See PCR (e.g. section 5). See 'BRE Global Product Category Rules (PCR) For Type III EPD of Construction Products to EN15804+A1' <a href="http://www.greenbooklive.com/filelibrary/EN_15804/PN514-BRE-EN-15804-PCR.pdf">http://www.greenbooklive.com/filelibrary/EN_15804/PN514-BRE-EN-15804-PCR.pdf</a>	See PCR. Compliant with EN 15804. See 'BRE Global Product Category Rules (PCR) For Type III EPD of Construction Products to EN15804+A1' <a href="http://www.greenbooklive.com/filelibrary/EN_15804/PN514-BRE-EN-15804-PCR.pdf">http://www.greenbooklive.com/filelibrary/EN_15804/PN514-BRE-EN-15804-PCR.pdf</a>	See PCR (e.g. section 6). See 'BRE Global Product Category Rules (PCR) For Type III EPD of Construction Products to EN15804+A1' <a href="http://www.greenbooklive.com/filelibrary/EN_15804/PN514-BRE-EN-15804-PCR.pdf">http://www.greenbooklive.com/filelibrary/EN_15804/PN514-BRE-EN-15804-PCR.pdf</a>	See PCR (e.g. section 8). See 'BRE Global Product Category Rules (PCR) For Type III EPD of Construction Products to EN15804+A1' <a href="http://www.greenbooklive.com/filelibrary/EN_15804/PN514-BRE-EN-15804-PCR.pdf">http://www.greenbooklive.com/filelibrary/EN_15804/PN514-BRE-EN-15804-PCR.pdf</a>	b) <a href="http://www.greenbooklive.com/search/search.jsp?id=260">http://www.greenbooklive.com/search/search.jsp?id=260</a>	I)	I)	d)	See PCR (e.g. section 5 and 6). <a href="http://www.greenbooklive.com/search/search.jsp?id=260">http://www.greenbooklive.com/search/search.jsp?id=260</a>  BRE LINA is for product manufacturers to enter information and data needed to produce a BRE EPD for their product(s)
UK	Inve ntor y of	I)	EN 15804 modules covered: a) A1-A3	V)	a)	II)	a) b) c)	II)	c)	I)	I)	d)	

	Carbon & Energy (IC E)	- specific	Extra: Primary natural resources covered: <b>not specified</b> Countries covered: UK Languages available: English			d)			Extra: Provision of conversion factors between measurement units [Y/N] <i>Extra:</i> Software-independent [N]		
UK & other	<a href="#">BR</a> <a href="#">E</a> <a href="#">Lina</a>										
UK, DE (EU )	<a href="#">eTooll</a> <a href="#">CD</a> <a href="#">data</a> <a href="#">base</a> <a href="#">s</a>	I) II)	EN 15804 modules covered: A1-A3 A4-A5 B1-B5 B6-B7 C1-C4 D  <i>Extra:</i> Separate reporting [Y/N] Primary natural resources covered: over 400 typical construction materials Countries covered: UK, EU, USA, Australia, New Zealand, Global Languages available: English	III) a) b) c)	I)	a) b) c) d)	I)	a) b)	I)  <i>Extra:</i> Provision of conversion factors between measurement units [N] <i>Extra:</i> Software-independent [Y/N]  II) All datasets and reporting functionality	I) free version has CO2e only dataset and limited automated reports available  II) All datasets and reporting functionality	a) b) c)