

# ISO 21930:2017-07 (E)

## Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products and services

---

<b>Contents</b>		<b>Page</b>
<b>Foreword</b>		<b>v</b>
<b>Introduction</b>		<b>vii</b>
<b>1</b>	<b>Scope</b>	<b>1</b>
<b>2</b>	<b>Normative references</b>	<b>2</b>
<b>3</b>	<b>Terms and definitions</b>	<b>2</b>
<b>4</b>	<b>Abbreviated terms</b>	<b>15</b>
<b>5</b>	<b>General aspects</b>	<b>16</b>
5.1	Objectives of this core PCR	16
5.2	Life cycle stages and their information modules and module D	17
5.2.1	General	17
5.2.2	Types of EPD with respect to life cycle stages covered	19
5.2.3	Use of scenarios for assessment of information modules beyond the production stage	20
5.3	Average EPDs for groups of similar products	21
5.4	Use of EPDs for construction products	22
5.5	Comparability of EPDs for construction products	22
5.6	Documentation	23
<b>6</b>	<b>PCR development and use</b>	<b>24</b>
6.1	Core PCR structure	24
6.2	Relation between core PCR and sub-category PCR	25
6.3	Development of sub-category PCR	26
<b>7</b>	<b>PCR for LCA</b>	<b>26</b>
7.1	Methodological framework	26
7.1.1	Overarching principles for LCA modelling and calculation	26
7.1.2	Functional unit	26
7.1.3	Declared unit	27
7.1.4	Requirements for the use of RSL	28
7.1.5	System boundary with nature	28
7.1.6	System boundary between products systems	28
7.1.7	System boundaries and technical information for scenarios	33
7.1.8	Criteria for the inclusion and exclusion of inputs and outputs	42
7.1.9	Selection of data and data quality requirements	43
7.1.10	Units	44
7.2	Inventory analysis	44
7.2.1	Data collection	44
7.2.2	Calculation procedures	44
7.2.3	Allocation situations	44
7.2.4	Principles for allocation for both allocation situations	44
7.2.5	Allocation for co-products	45
7.2.6	Allocation between product systems (across the system boundary)	47
7.2.7	Accounting of biogenic carbon uptake and emissions during the life cycle	47
7.2.8	Carbonation	48
7.2.9	Accounting of delayed emissions	49
7.2.10	Inventory indicators describing resource use	49
7.2.11	Greenhouse gas emissions from land-use change	50
7.2.12	Additional inventory indicators describing emissions and removals of carbon	50
7.2.13	Inventory indicator describing consumption of freshwater	51
7.2.14	Environmental information describing waste categories and output flows	51

7.3	Impact assessment indicators describing main environmental impacts derived from LCA.....	53
<b>8</b>	<b>Additional environmental information.....</b>	<b>54</b>
8.1	General.....	54
8.2	Additional LCA-related environmental information not included in the pre-set LCIA indicators.....	54
8.3	Additional environmental information not derived from or related to LCA.....	55
8.4	Mandatory additional environmental information.....	55
8.4.1	Content of regulated hazardous substances.....	55
8.4.2	Release of dangerous substances from construction products.....	56
<b>9</b>	<b>Content of an EPD.....</b>	<b>56</b>
9.1	General.....	56
9.2	Declaration of general information.....	56
9.3	Declaration of the methodological framework.....	58
9.4	Declaration of technical information and scenarios.....	59
9.4.1	General.....	59
9.4.2	All stages — Transport.....	59
9.4.3	Construction stage — A5, installation.....	59
9.4.4	Use stage — B1 to B5.....	59
9.4.5	Use stage — B6 to B7.....	60
9.4.6	End-of-life stage — C1 to C4.....	60
9.4.7	Module D.....	60
9.5	Declaration of environmental indicators derived from LCA.....	61
9.5.1	LCA results from LCIA.....	61
9.5.2	LCA results from LCI.....	61
9.6	Declaration of additional environmental information.....	62
9.6.1	References.....	62
<b>10</b>	<b>Project report.....</b>	<b>62</b>
10.1	General.....	62
10.2	LCA-related elements of the project report.....	63
10.3	Rules for data confidentiality.....	64
10.4	Documentation on additional environmental information.....	64
10.5	Data availability for verification.....	65
<b>11</b>	<b>Verification and validity of an EPD.....</b>	<b>65</b>
	<b>Annex A (normative) Requirements and guidance on the RSL and ESL.....</b>	<b>66</b>
	<b>Annex B (informative) Examples of average EPDs.....</b>	<b>69</b>
	<b>Annex C (informative) Release of dangerous substances.....</b>	<b>70</b>
	<b>Annex D (informative) Regulated substances of very high concern.....</b>	<b>72</b>
	<b>Annex E (informative) Environmental indicators derived from LCA.....</b>	<b>73</b>
	<b>Bibliography.....</b>	<b>78</b>