Part B for: commercial toilets, v3.1

June 12, 2025 | Sustainable Minds | Contact Kim Hammer (kim@sustainableminds.com)

EPD use case goal:

1, 2 or 3

EPD use levels are cumulative. Transparency is the baseline. To create a 'Data source' conformant PCR, all criteria in all checklists must be documented.

1. Program Operator (PO) checklist Version 1.0, May 25, 2022 | ACLCA PCR Open Standard 2022

					3 Data source		
Categories	#	Criteria	ISO reference	Supporting documentation	EPD use	2 Procurement	
						1 Transparency	
	Ground					How criteria were met	Due
Organizational	_ 1	Prior to using the ACLCA PCR Guidance 2022 to develop PCRs, the PO shall use this guidance to develop and publish conformant program instructions that describe the process of PCR development aligned with ISO/TS 14027.	This guidance	General program instructions (governance document): • ACLCA PCR Guidance 2022 conformant statement with version number	1 Transparency	Updated program instructions published to SM website http://www.sustainableminds.com/files/transparency/SM_Governance and_program_rules.pdf	Complete
	☑ 2	PO shall use this checklist to guide the creation of a PCR, identify how criteria were met, and provide the completed Program Operator Checklist and PCR Review Panel Checklist to the PCR Review Panel.	This guidance	PCR supporting documentation: Completed checklist	1 Transparency	Completed checklists saved with the PCR supporting documentation.	Complete
	3	PO shall be the secretariat of the PCR and manage an open and transparent process to develop or update a PCR. This process shall include public notices prior to PCR development and an open consultation process with interested parties while the PCR Committee remains active. PO shall publish the intention to develop (or update) a PCR on its website, in relevant industry and trade publications and/or news services, and through centralized notification mechanisms. The announcements shall include contact information that allows interested parties to request more information about participation in the PCR development or review process. Interested parties may include material suppliers, manufacturers, trade associations, purchasers (such as architects, designers, specifiers, contractors, and engineers), users, non-governmental organizations (NGOs), and public agencies.	14027 Clause 6.4.1	PCR supporting documentation: • Date(s) announcement(s) were posted and where	1 Transparency	PCR committee remains active for update from v3.0 to v3.1. Public consultation on the Sustainable Minds website for the udpated Part Bs posted on July 11, 2025: http://www.sustainableminds.com/transparency-report-program/part-b Email blast on July 11, 2025 to mailing lists of LCA professionals, building and construction industry and trade associations, and manufacturers with published transparency documentation listed in the Transparency Catalog under the plumbing CSI Masterformat Division (22 00 00).	Complete
	☑ 4	PO shall determine whether to create a new PCR or to adapt an existing PCR from other geographic regions. The PO shall justify the determination in the PCR.	14027 Clause 6.4.2, 6.4.3	PCR: • Identify existing PCRs considered, and provide justification for creating a new PCR. • If new, identify the supporting LCA. • Describe how existing PCRs will be adapted.	2 Procurement	N/A	N/A
	☑ 5	PO shall evaluate upstream and downstream PCRs in the value chain to be considered for alignment. PO shall list relevant PCRs in the PCR. Note: Also see Criterion 15 for the process of determining when a PCR may be updated.	14044 14027 Clause 6.4.3 This guidance	PCR supporting documentation: Identify existing upstream PCRs for the major inputs to the product(s) considered in the PCR. Describe differences in allocation rules or other potential conflicts and how they were resolved. Identify existing downstream PCRs that use products/materials from the PCR and how inconsistencies were resolved.	3 Data source	N/A	N/A
	☑ 6	PO shall harmonize PCR activities with other EPD programs to avoid unnecessary duplication and proliferation of similar PCRs, and align on mutual recognition agreement (MRA) requirements. PO shall list relevant PCRs in the PCR. Note: Refer to both the ACLCA's PCR library and the North American PCR Catalog: Building & Construction Materials https://www.transparencycatalog.com/na-pcr-catalog-building-products	14029 Clause 7, 9.2	PCR supporting documentation: Identify whether this criteria is applicable. Identify other POs engaged to harmonize PCR activities and opportunities explored (joint development of new, merging, application of existing, or adaption of existing). MRA between POs one exists.	1 Transparency	Addressed in Program operator responsibilities section of each Part B.	Complete
	✓ 7	PO shall publish and implement procedures for an appeals mechanism to ensure prompt and impartial handling of procedural complaints regarding any action or inaction of the PCR Committee, PCR Review Panel, or Program Operator.	14027 Clause 6.4.4	General program instructions (governance document): • Explanation of appeals process	1 Transparency	Addressed in section 10.0 of the governance document.	Complete
	☑ 8	PO should include a method for addressing data quality in its general program instructions. Note: Refer to the addendum "Assessing Data Quality of Background Life Cycle Inventory Datasets" for an example data quality assessment method.		General program instructions (governance document): • Method for Data Quality Assessment	2 Procurement	N/A	N/A
	PCR con	nmittee formation				How criteria were met	Due
		<u> </u>		<u> </u>			

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V	9	PO shall actively reach out to interested parties (including parties outside the PO's country or region) to ensure that the PCR Committee is composed of independent members, making sure that the interests of one party do not dominate the PCR development process. No single interested party category (at individual, organizational, or sectoral levels) shall dominate the membership of a PCR Committee. Interested parties may include material suppliers, manufacturers, trade associations, purchasers (such as architects, designers, specifiers, contractors, and engineers), users, non-governmental organizations (NGOs), and public agencies.	14025 Clause 5.5, 6.5, & 9.3 14027 Clause 6.4.1 and 6.4.2	PCR: • List of PCR Committee members with employer and/or other entity on behalf of which they are participating. PCR supporting documentation: • Description of interested party outreach efforts and explanation of interested parties that did not participate.	1 Transparency	Working group members listed on page 1 of each Part B.	Complete
Ø	10	PO shall address potential conflicts of interest developing the PCR and fully disclose funding sources for the management to interested parties. If significant external funding was made by one or more parties to support the development, the PO should put in place procedures to ensure that no conflict of interest occurrs in the PCR process. 'Significant funding' is defined as more than \$10,000 or its in-kind equivalent, or 20% or more of the anticipated funding needs.	Performance Standards and Ecolabels for Federal Purchasing.	PCR supporing documentation: - The policy or procedure in use when the PCR was developed covering conflicts of interest, separation of organizational functions necessary to address any potential conflict of interest. - Attestation that this policy or procedure was followed during the development. The evidence must also include one of the following: - Documentation that original sources of funding were disclosed to interested parties, such as a disclosure statement, or in meeting minutes for relevant working groups.		Conflict statement included in the Part B development information table of each Part B.	Complete
Cor	itent o	f PCR				How criteria were met	Due
V	11	The PCR shall report on the following items: Name and registration number of the PCR General information about the program: name of the program, contact information, logo, and website if applicable PCR Committee members and affiliations Publication date Expiration date and renewal schedule Types of product claims covered by the PCR, with references to standards Product category Geographical representativeness of the PCR Original language and translations (if existing) How to make comments to the PCR	14027 Clause 6.5	PCR: • Draft PCR that includes all items reported	1 Transparency	Part A section 1.1 addresses the use of SM PCRs to create ISO 14025 Type III environmental declarations, and also language availability. http://www.sustainableminds.com/files/transparency/SM_Part_A_LCA_ calculation_rules_and_report_requirements_2023.pdf All other items are addressed in Part B.	Complete
V	12	The PCR shall report the following information about the review process and background of the PCR: • Review panel member information • Open consultation period and participants • Other existing PCRs for the product category and reasons for developing a new one • Reference to underlying LCAs • Confirmation statement that the PCR was created in conformance with this ACLCA PCR Guidance (including version number)	14025 Clause 5.5, 8.2 14027 Clause 5.2, 6.4.4 14025 Clause 6.7.1, 6.7.2 14027 Clause 6.1, 6.4.3, 6.5.3, 7.1d	PCR: • Draft PCR that includes all items except 'open consultation period' PCR supporting documentation: • Open consultation period and participants	1 Transparency	All items except open consultation participants addressed in Part B. Aggregated public comments spreadsheet, including commenter names and committee responses, created and made available to the review panel.	Complete
PCF	R revie	w process				How criteria were met	Due
V	13	PO shall set up an independent third-party review panel composed of a minimum of three members (a chair and two members). The combined competencies of the panel shall include, at a minimum, expertise in LCA and in the relevant product sector. Note: Refer to the PCR Review Panel Checklist for review panel expectations.	14027 Clause 7.1, 7.2, 7.3, 14025 Clause 8.2.3	PCR: • List of review panel members	1 Transparency	Working group members listed on page 1 of each Part B.	Complete
V	14	PO shall also set up an open consultation review.	14027 Clause 6.4.4, 7.3	PCR supporting documentation: • Date(s) open consultation period(s) announced, where/how; aggregated comments spreadsheet	1 Transparency	Aggregated public comments spreadsheet created and saved with the PCR supporting documentation.	Complete
		PO shall ensure the PCR Review Panel provides comments within a 90-day period.	This guidance	PCR supporting documentation: • Date(s) PCR review period		Due date less than 90 days provided to PCR reviewer (Jun 12 - Jun 20).	Complete
₽ub		on, new and updated PCRs		- Date(s) FOR review period		3301 237	Due
Ø	16	PC shall be responsible for publishing and maintaining the PCR. The published PCR shall be publicly available on the PO's website, free for any other PO to use. PO shall write out the publication date (e.g., June 25, 2022) and expiration date (e.g., June 24, 2027). PCRs shall have a validity period of no more than five years from the publication date. PCRs are invalid beyond the expiration date. PO shall provide the schedule for renewal, if applicable. PO should include a statement adjacent to the PCR Review Panel attribution to indicate conformance with this guidance (including version number) and the EPD use case level. PO should not act as a barrier to translating the PCR and should act as a facilitator for the translation.	14025 Clause 6.4, 6.7.1 14027 Clause 8.1.1 This guidance	PCR supporting documentation: • URL of PO's published PCRs page • URL PCR will be available at when published PCR: • Validity period of PCR • Conformance statement and EPD use case level	1 Transparency	A link to the SM Part Bs page is included in each Part B. Completed Part Bs are uploaded to that page when published. The URL of the Part B when published is as follows: http://www.sustainableminds.com/files/transparency/pgds/Part_B_Product_Group_Definition_Commercial_Tollets_2024_v3-1.pdf The Part B contains validity period, conformance statement, and EPD use case level.	Complete

	V		To manage the expectations of PCR users, the PO shall post update information on its website at least four months in advance of the expiration date. The update options include: extending the current PCR, updating the PCR, or letting the PCR expire with no update. If information is not provided within this timeframe, other POs may proceed with the update and post PCR update information on their website.	This guidance	• URL of PO's PCRs undergoing updates	1 Transparency	Public consultation period began well before 4 months prior to expiration, announced on the Sustainable Minds website on June XX, 2025: http://www.sustainableminds.com/transparency-report-program/part-b	In progress; will update date once public consultation period begins
	V		To update a PCR during the validity period, the PO shall: 1. Notify the original PCR Committee members and original Review Panel. 2. Consult ISO 14027 to confirm the reason to update is valid. 3. Create or update the ACLCA PCR Guidance Checklists for the PCR. 4. Open consultation to interested parties. 5. Update the PCR. 6. Obtain sign-off by PCR Review Panel. 7. Republish an updated version and include a change log at the start of the document. 8. Announce the updated version and include a change log at the start of the document. 9. Update the ACLCA PCR Repository. In the case that an existing PCR does not meet the requirements for creating EPDs for public or private procurement purposes, the PO shall make an effort to first engage the commissioner of the PCR to reconvene the PCR Committee in order to make the required updates. If the PCR commissioner does not reconvene the PCR Committee within 30 days of the PO's request, then the PO may proceed to develop a new PCR using the existing PCR as an informative input document.	PCR supporting documentation: • Checklists PDs er to PCR		1 Transparency	The original PCR Committee members were notified on May 14, 2025. ISO 14027 Clause 9 reason i is the primary reason for updating to v3.1; an LCA practitioner provided evidence that v3.0 was too restrictive by not explicitly allowing separate reporting of impacts for bowl or tank only. The PCR and checklists were updated including the addition of a change log, signed off by the technical review panel, underwent public consultation, and the updated version was announced on the Sustainable Minds website. The ACLCA PCR Repository will be updated once it becomes live.	In progress; will update upon final signoff
	V	19	For substantial PCR updates (e.g., updates that impact the results of an EPD), the PO shall contact manufacturers in their program with valid EPDs and other POs to bring attention to the PCR changes and encourage that they update accordingly.	14027 Clause 9	PCR supporting documentation: - Description of notification and dates of outreach	1 Transparency	TOTO was identified as the only manufacturer with valid EPDs in the SM program using the Part B being updated. TOTO and other POs were notified of updates via the committee outreach process.	Complete
	EPD	tem	plate				How criteria were met	Due
	V		PO shall create a standard EPD template to be used for all EPDs that can be customized per PCR to identify requirements unique to each. Consider both digital and print (PDF) publishing. <i>Note: Refer to the 'EPD Comparatibility and Digital EPDs / Open EPD addendum.</i> PO shall include a statement adjacent to the PCR name to indicate conformance with this guidance and the EPD use case level.	This guidance	PCR: • EPD template document prepared for this PCR • Statement text included in EPD template	1 Transparency	A standard EPD template is included in Appendix C of Part A. Under the name of each Part B is a statement indicating conformance to this guidance and the EPD use case level.	Complete
	☑	21	PO shall ensure that the type of EPD developed is clearly noted on the EPD. <i>Note:</i> Refer the 'EPD Types' addendum.	This guidance	PCR: • Statement text included in EPD template	1 Transparency	Requirement listed in the Verification statement section in Appendix C of Part A (EPD template).	Complete
Goal and scope	V	22	Product categories shall be primarily defined and sufficiently described by product functionality, technical performance, and use. The PCR shall clearly define the product groups for which the rules apply, both by using descriptive language and by using the relevant codes for any of the existing classification systems relevant to the product category and region. Products NOT covered by the PCR shall be clearly listed (as a clarification when products are similar). PO should ensure that the product classification systems are not to be the single determining factor for defining the product category. The PCR is encouraged to provide sufficient information to clearly describe the scope of products and services for which the rules apply.	14027 Clause 8.1.1	PCR: • Draft PCR which includes all the items	2 Procurement	N/A	N/A

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2. PCR Committee checklist Version 1.0, May 25, 2022 | ACLCA PCR Open Standard 2022

Categories	#	Criteria	ISO reference	Supporting documentation	EPD use	3 Data source 2 Procurement 1 Transparency	
Documentation	Ground	ules				How criteria were met	Due
	✓ 1	PCR Committee shall use this checklist to guide the creation of a PCR, identify how criteria were met, and provide the completed checklist to the Program Operator to provide to the PCR Review Panel.	This guidance	PCR supporting documentation: • Completed checklist	1 Transparency	Completed checklists saved with the PCR supporting documentation.	Complete
	☑ 2	PCR Committee shall thoroughly document the use of an existing PCR as an informative document in any adaptation to create a new PCR. Include the PO name existing PCR name, product category classification, link to the existing PCR, and provide justification for adapting the existing PCR.	, 14027 Clause 6.4.3 and this guidance	PCR: • Link to PCR Committee's documentation of adaptation	2 Procurement	N/A	N/A
	☑ 3	PCR Committee shall respond to each comment from the PCR Review Panel and public consultation. Responses should address any conflicting comments provided by the PCR Review Panel.	This guidance	PCR supporting documentation: • Link to PCR Committee's documented public response to comments and consultation on PO's website (aggregated comments spreadsheet).	1 Transparency	Aggregated public comments and review panel comments, including committee responses, created and published on the SM website with the PCR supporting documentation.	Complete
	☑ 4	PCR Committee shall provide a limited description of the involvement of interested parties for open consultation. Specifically, the PCR should provide: • The name and/or affiliation of the stakeholders who participated in the open consultation. • The dates of the open consultation period. Public consultation should be utilize during the PCR review process. The public consultation of the completed draft PCR should include at a minimum a 30-calendar-day time period for comments to be submitted.	14025 Clause 5.5 d 14027 Clause 5.2, 6.4.4	PCR: • Draft PCR that includes list of participating interested parties and dates of consultation period.	1 Transparency	Open consultation period listed in 'Open consultation' section of the Part B development table. Aggregated public comments spreadsheet, including commenter names and committee responses, were created and made available to the review panel.	Complete
Compliance	☑ 5	PCR Committee shall ensure that the underlying LCA meets the requirements of IS 14044 and other pertinent standards and that, according to these standards, it has either been critically reviewed by a third party or has undergone an internal verification, either by the PCR Committee itself or appointed independent LCA expert.	8.1.3, 8.2.1, 8.2.2	PCR supporting documentation: • Link to documentation of LCA review or internal verification.	2 Procurement	N/A	N/A
	☑ 6	PCR Committee shall ensure that the PCR is compliant with any referenced standards and relevant program instructions under which it is developed.		PCR: • List of referenced standards and link to relevant program instructions.	1 Transparency	Use of each Part B in conjunction with SM Part A is addressed in Program operator responsibilities section of each Part B. SM Part A section 1.1. lists the standards required for conformance. The last section of each Part B contains a link to where to find the SM program instructions (governance document).	Complete
	✓ 7	PCR Committee shall establish LCA requirements that are consistent with ISO 14044. The PCR Committee is encouraged to develop end-use case scenarios for the PCR-compliant EPDs and to incorporate considerations for these use cases interest the underlying LCA.	14025 Clause 6.7.1, 6.7.2 14027 Clause 5.1, 6.1, 6.5.3, 7.1d	PCR supporting documentation: • Third-party reviewed ISO 14040/44 conformant LCA of the product categories under consideration. The LCA will reflect cases in which the EPD may be interpreted in use.	1 Transparency	A link to the underlying LCA is included in the Program operator responsibilities section of each Part B.	Complete
	Ground	ules				How criteria were met	Due
Goal and scope	☑ 8	PCR Committee shall ensure that all rules for LCA are specified and harmonized wupstream and downstream PCRs (if available) in conformance with relevant standards, including: specification of the functional unit, scope of the study, invento collection, any allocation rules, impact assessment, and rules for additional information.	14044	PCR: • Draft PCR with list of specifications	3 Data source	N/A	N/A
	☑ 9	PCR Committee shall ensure that the product category used in the underlying LCA supporting the PCR is directly applicable to the PCR.	14025 Clause 3.14, 6.6, 6.7.2 14027 Clause 6.5.2, 6.5.3	PCR: • Specification and justification of the product category and applicable functional unit.	2 Procurement	N/A	N/A
	☑ 10	PCR Committee shall define the study scope and EPD type for construction product and services.	21930 Clause 5.2.1, 5.2.2	PCR: • Draft PCR with specification of scope as cradle-to-gate or cradle-to-gate with options or cradle-to-grave.	1 Transparency	Part B specifies the scope as as cradle-to-grave.	Complete
	☑ 11	PCR Committee shall ensure that a clearly defined and measurable functional or declared unit is included in the PCR for construction products and services.	21930 Clause 7.1.2, 7.1.3	PCR: Draft PCR with detailed description of the application and suitability of defining functional and declared units, respectively.	1 Transparency	Part B provides a description of the functional unit.	Complete
	☑ 12	The PCR Committee shall determine which EPD types may be developed (ex: product-specific, industry-wide) and state the specific data requirements for each type. Any other terminology describing types of EPDs should be discouraged. <i>Note Refer to the 'EPD Types'</i> addendum for descriptions.	ISO 21930 Annex B and 'EPD Types' addendum	PCR: • Draft PCR with description of the EPD types with specific data requirements	1 Transparency	Part B specifies EPD type under the name of the Part B. Specific data requirements are listed in the Additional rules to Part A section of each Part B.	Complete

Эу	010	boundary				How criteria were met	Due
∠	3 1	PCR Committee shall determine the level of granularity of unit processes specified by the PCR to be included in the underlying LCA supporting the EPD and ensure the these are consistent with the study's goal of using well-identified and explained criteria.	14044 4.2.3.3 14027 Clause 6.5.3 21930 Clause 7.1.9 for construction products & services	PCR: • Draft PCR with list of all unit processes that include all service, material, and energy flows directly connected to the study project and its ability to perform its function.	3 Data source	N/A	N/A
Œ] 1	PCR Committee shall ensure that the PCR requires: 1) at minimum, a cradle-to-gate[1] system boundary and that any deviation is explicitly specified and justified; and 2) the use of the recycled content (i.e., cut-off) approach for end-of-life allocation of environmental burdens between product systems. [1] "Gate" represents the finished and packaged product at the manufacturing facility just prior to shipping.	14044 Clause 4.2.3.3.1 14025 6.7.2b, 6.7.2c, 6.7.2j, 7.2.5 14027 6.5.3b, 6.5.6	PCR: • Draft specification of the system boundary and justification of any system boundary minimum requirement deviations (where applicable).	2 Procurement	N/A	N/A
V	3 1	PCR Committee shall ensure that the PCR specifies the capital goods and infrastructure to be included in cases whenever it is feasible. The PCR Committee is 5 couraged to specify lifetimes or standardized methods of computing lifetimes, as well as the depreciation method utilized to allocate the burden of capital goods over their service period, with any deviations from the default approach explicitly specifie and justified.	This guidance	PCR: • Draft PCR that includes all items	2 Procurement	N/A	N/A
V	3 1	PCR Committee shall develop scenarios representing a set of domain-specific standard guidelines for any and each life cycle stage to be included beyond cradletgate (i.e., A1-A3) in the PCR scope and require LCA results for these be reported. The PCR shall also prescribe assumptions for scenarios in cases where there is no discernable difference between one product and another in the same category for use and end-of-life stages. The PCR Committee should include criteria in the PCR for deviation from the prescribed scenarios.		PCR: • Where applicable, list of scenarios and associated assumptions.	2 Procurement	N/A	N/A
V	3 1	PCR Committee shall specify whether the benefits and loads beyond the system boundary (i.e., Module D) are to be included in the EPD. If so, the PCR shall describe the specific scenario(s), benefits, and loads to be considered and reported separately in relevant EPDs communicating the full life cycle (cradle-to-grave) impacts of a product. Note: Refer to the 'Circular Scenarios (Module D)' addendum.	This guidance and 'Circular Scenarios (Module D)' addendum	PCR: • Where applicable, list of scenarios and concomitant benefits and loads to be included.	2 Procurement	N/A	N/A
						How criteria were met	Due
_	ta c	llection				now criteria were met	Due
ycle tory	1	PCR Committee shall prescribe acceptable primary data collection practices and clearly specify the scope and data quality for secondary data with recommendations for use of specific datasets or databases facilitating this process. Datasets used for calculations shall have been updated within the last 10 years for background data and within the last 5 years for producer-specific (foreground) data; deviations shall b justified. Where databases are required, alternatives or modifications shall be proposed for geographic areas or technologies beyond the scope of the specified dataset(s). Any deviation from the recommended background (secondary) datasets in the PCR shall be clearly specified and justified. In addition, the PCR shall require EPDs to disclos the reporting period for primary and secondary data. Note: Refer to the 'Assessing Data Quality of Background Life Cycle Inventory Datasets' addendum.	^e ISO 21930 Clause 7.1.9 and 'Data Quality and Secondary Background Datasets' addendum	PCR: • Draft PCR that includes all items	2 Procurement	N/A	N/A
ycle tory	1	PCR Committee shall prescribe acceptable primary data collection practices and clearly specify the scope and data quality for secondary data with recommendations for use of specific datasets or databases facilitating this process. Datasets used for calculations shall have been updated within the last 10 years for background data and within the last 5 years for producer-specific (foreground) data; deviations shall b justified. Where databases are required, alternatives or modifications shall be proposed for geographic areas or technologies beyond the scope of the specified dataset(s). Any deviation from the recommended background (secondary) datasets in the PCR shall be clearly specified and justified. In addition, the PCR shall require EPDs to disclos the reporting period for primary and secondary data. <i>Note: Refer to the 'Assessing</i>	e ISO 21930 Clause 7.1.9 and 'Data Quality and Secondary Background Datasets' addendum	PCR:		N/A SM Part A includes the list of selected LCIA indicators.	N/A
ycle tory]	PCR Committee shall prescribe acceptable primary data collection practices and clearly specify the scope and data quality for secondary data with recommendations for use of specific datasets or databases facilitating this process. Datasets used for calculations shall have been updated within the last 10 years for background data and within the last 5 years for producer-specific (foreground) data; deviations shall be justified. Where databases are required, alternatives or modifications shall be proposed for geographic areas or technologies beyond the scope of the specified dataset(s). Any deviation from the recommended background (secondary) datasets in the PCR shall be clearly specified and justified. In addition, the PCR shall require EPDs to disclose the reporting period for primary and secondary data. <i>Note: Refer to the 'Assessing Data Quality of Background Life Cycle Inventory Datasets' addendum.</i> PCR Committee shall identify and ensure that the PCR specifies the selected LCIA indicators or additional information requirements for which relevant inventory	lsO 21930 Clause 7.1.9 and 'Data Quality and Secondary Background Datasets' addendum 14025 Clause 7.2.2, 7.2.3 14027 Clause 6.5.4, 6.5.5, 6.6	PCR: • Draft PCR that includes all items PCR:		N/A	N/A
ycle tory		PCR Committee shall prescribe acceptable primary data collection practices and clearly specify the scope and data quality for secondary data with recommendations for use of specific datasets or databases facilitating this process. Datasets used for calculations shall have been updated within the last 10 years for background data and within the last 5 years for producer-specific (foreground) data; deviations shall be justified. Where databases are required, alternatives or modifications shall be proposed for geographic areas or technologies beyond the scope of the specified dataset(s). Any deviation from the recommended background (secondary) datasets in the PCR shall be clearly specified and justified. In addition, the PCR shall require EPDs to discost the reporting period for primary and secondary data. <i>Note: Refer to the "Assessing Data Quality of Background Life Cycle Inventory Datasets" addendum.</i> PCR Committee shall identify and ensure that the PCR specifies the selected LCIA indicators or additional information requirements for which relevant inventory information shall be collected. PCR Committee shall specify, based on the underlying LCA and/or additional studie of informing the PCR, all the data that are to be collected (rather than specifying cut-of informing the PCR, all the data that are to be collected (rather than specifying cut-of	E ISO 21930 Clause 7.1.9 and 'Data Quality and Secondary Background Datasets' addendum 14025 Clause 7.2.2, 7.2.3 14027 Clause 6.5.4, 6.5.5, 6.6 \$ 14025 Clause 7.2.3, 7.2.4 14027 Clause 6.6	PCR: • Draft PCR that includes all items PCR: • Draft PCR that includes all items PCR:	1 Transparency	N/A SM Part A includes the list of selected LCIA indicators.	N/A Comple
ycle tory		PCR Committee shall prescribe acceptable primary data collection practices and clearly specify the scope and data quality for secondary data with recommendations for use of specific datasets or databases facilitating this process. Datasets used for calculations shall have been updated within the last 10 years for background data and within the last 5 years for producer-specific (foreground) data; deviations shall be justified. Where databases are required, alternatives or modifications shall be proposed for geographic areas or technologies beyond the scope of the specified dataset(s). Any deviation from the recommended background (secondary) datasets in the PCR shall be clearly specified and justified. In addition, the PCR shall require EPDs to disclos the reporting period for primary and secondary data. Note: Refer to the 'Assessing Data Quality of Background Life Cycle Inventory Datasets' addendum. PCR Committee shall identify and ensure that the PCR specifies the selected LCIA indicators or additional information requirements for which relevant inventory information shall be collected. PCR Committee shall specify, based on the underlying LCA and/or additional studie informing the PCR, all the data that are to be collected (rather than specifying cut-of criteria for the inventory). PCR Committee shall specify the type of data to be collected. The committee is encouraged to follow standard data collection examples for foreground (primary) dat	EISO 21930 Clause 7.1.9 and 'Data Quality and Secondary Background Datasets' addendum 14025 Clause 7.2.2, 7.2.3 14027 Clause 6.5.4, 6.5.5, 6.6 \$ 14025 Clause 7.2.3, 7.2.4 14027 Clause 6.6	PCR: • Draft PCR that includes all items PCR: • Draft PCR that includes all items PCR: • Draft PCR that includes all items PCR: • Draft PCR that includes all items	1 Transparency 2 Procurement	N/A SM Part A includes the list of selected LCIA indicators.	N/A Compli
ycle tory	i i i i i i i i i i i i i i i i i i i	PCR Committee shall prescribe acceptable primary data collection practices and clearly specify the scope and data quality for secondary data with recommendations for use of specific datasets or databases facilitating this process. Datasets used for calculations shall have been updated within the last 10 years for background data and within the last 5 years for producer-specific (foreground) data; deviations shall be justified. Where databases are required, alternatives or modifications shall be proposed for geographic areas or technologies beyond the scope of the specified dataset(s). Any deviation from the recommended background (secondary) datasets in the PCR shall be clearly specified and justified. In addition, the PCR shall require EPDs to discost the reporting period for primary and secondary data. <i>Note: Refer to the 'Assessing Data Quality of Background Life Cycle Inventory Datasets' addendum.</i> PCR Committee shall identify and ensure that the PCR specifies the selected LCIA indicators or additional information requirements for which relevant inventory information shall be collected. PCR Committee shall specify, based on the underlying LCA and/or additional studie of informing the PCR, all the data that are to be collected (rather than specifying cut-of criteria for the inventory). PCR Committee shall specify the type of data to be collected. The committee is encouraged to follow standard data collection examples for foreground (primary) dat collection.	EISO 21930 Clause 7.1.9 and 'Data Quality and Secondary Background Datasets' addendum 14025 Clause 7.2.2, 7.2.3 14027 Clause 6.5.4, 6.5.5, 6.6 \$ 14025 Clause 7.2.3, 7.2.4 14027 Clause 6.6	PCR: • Draft PCR that includes all items PCR: • Draft PCR that includes all items PCR: • Draft PCR that includes all items PCR: • Draft PCR that includes all items	1 Transparency 2 Procurement	N/A SM Part A includes the list of selected LCIA indicators. N/A	N/A Complete N/A N/A Due

Foregrou	d/primary data					
					How criteria were met	Due
24	PCR Committee shall ensure that the PCR specifies primary data be collected for every process in the product system under the control of the organization making the product claim. The PCR Committee is encouraged to specify that data specific to the investigated product scope and supply chain are preferable to generic data, particularly in unit processes considered to have a significant contribution to the product life cycle. For EPDs seeking transparency-level conformance with this guidance, the PCR shall require the following: EPDs that use secondary data for any unit process that contributes 30% or more to any disclosed environmental impact category shall disclose the data source (database name and version, dataset name, dataset geography, and dataset allocation method).	This guidance	PCR supporting documentation: • Foreground (primary) data collected in conducting the underlying LCA, and the sensitivity of LCIA outcomes to variability in the foreground data. A facility-specific data collection protocol shall also be included.	1 Transparency	SM Part A section 7.6 states that primary data shall be collected for every process in the product system under the control of the organization(s) developing the LCA. Part B contains a statement in the Additional rules to Part A section which states: EPDs that use secondary data for any unit process that contributes 5% or more to any disclosed environmental impact category shall disclose the data source (database name and version, dataset name, dataset geography, and dataset allocation method) The underlying LCA lists primary data collected and includes an analysis on sensitivity or variability.	
☑ 25	For EPDs seeking procurement-level conformance with this guidance, the PCR shall equire that EPDs use facility-specific data for upstream unit processes that sumulatively contribute 50% or more to the disclosed global warming potential. In situations where facility-specific data is not available for the upstream unit processes, and such a facility is required to report to the EPA Greenhouse Gas Reporting Program (GHGRP), the PCR shall require the EPD to disclose in the Additional Environmental Information section: the carbon intensity of the manufacturing plant (carbon emitted per metric ton of product manufactured) from which these products, and/or the quartile in which in which the manufacturing plant esides where benchmarks have been published highly-livenses of the production of the production of the production. Emission and production data must be from the same reporting period using the most recent year of data. When a published ENERGY STAR Energy Performance Indicator is available for a product or constituent upstream product, the PCR shall require the EPD to disclose in the Additional Environmental Information section: the ENERGY STAR Energy Performance Score for the manufacturing plant in which the product or constituent upstream product was manufactured, and the reporting period of the underlying data. See https://www.energystar.gov/industrial_plants/energy_star_plant_certification/buy_clean_procurement_and_energy_star_0 for more information.	This guidance	PCR: • Draft PCR that includes all items	2 Procurement	N/A	N/A
☑ 26	PCR Committee shall ensure that the PCR specifies the means by which primary data should be collected and may provide templates to facilitate harmonized data collection, metadata recording, and results reporting. If the specified data collection means are unachievable for a specific EPD developer, the PCR shall designate that he developer records the data collection method(s) utilized in the data description.	14025 Clause 6.7.2	PCR: • Specification of data collection methods (e.g., measured, calculated, estimated)	1 Transparency	SM Part A section 7.6 states: The method of data collection shall be specified (e.g., measured, calculated, estimated).	Complete

V	27	PCR Committee shall specify all parameters of assumed scenarios for use and end- of-life stages so as to ensure comparability and consistency of results. If a manufacturer wishes to define their own scenario(s), they shall be based on primary data.	This guidance and the 'Circular Scenarios (Module D)' and the 'Allocating Materials Shared Across Product Systems' addendu	PCR: • List of parameters for use and end-of-life stage scenarios	2 Procurement	n/a	N/A
V	28	PCR Committee shall ensure that the PCR provides worst-case (i.e., 'conservative') default values for scenario data of the specified processes where no data are available for the EPD developer.	This guidance	PCR: • List of worst-case (i.e., 'conservative') default scenario values	2 Procurement	N/A	N/A
Data	com	pliance				How criteria were met	Due
Ø	29	PCR Committee shall ensure that claims made in the PCR are based on the results of an LCIA, LCI, and/or substantiated and verifiable additional information modules relevant to the product category.	14027 Clause 6.6	PCR: • An underlying LCA with supporting LCIA and LCI for all PCR guidelines	1 Transparency	The underlying LCA contains relevant supporting LCA results.	Complete
Ø	30	PCR Committee shall ensure that the PCR states data quality requirements for all data applicable for use in claims. These data shall be verified to be compliant with the established PCR data quality requirements and those for foreground (primary) and background (secondary) data. The PCR shall specify that a data quality assessment be performed on all collected foreground (primary) data and may provide templates to facilitate harmonized primary data collection, assessment, reporting, and verification. <i>Note: Refer to the 'Assessing Data Quality of Background Life Cycle Inventory Datasets' addendum</i> .	This guidance	PCR: • Data quality assessment criteria and/or template	3 Data source	N/A	N/A
V	31	America, LCI and method compatible with the Federal Elementary Flow List (FEDEFL) from https://www.lcacommons.gov/). • Temporal, geographical, and technological coverage of the secondary data is compatible with the scope of the PCR. • System boundaries are equivalent, and reference flows are adaptable to the	This guidance and 'Assessing Data Quality of Background Life Cycle Inventory Datasets' and the 'Allocating Materials Shared Across Product Systems' addenda	PCR: • Draft PCR with list of background (secondary) data sources and default LCIA method(s)	2 Procurement	N/A	N/A
Alloc	cation	1				How criteria were met	Due
V	32	PCR Committee shall ensure that the PCR specifies which processes are to be subdivided if allocation can be avoided in this manner wherever feasible. The PCR shall also provide guidelines on how the subdivision should be performed.	14025 Clause 6.7.1c, 6.7.2c 14027 Clause 6.5.3	PCR • Draft PCR that lists processes and subdivision method	2 Procurement	N/A	N/A
Ø	33	PCR Committee shall ensure the PCR specifies that where allocation by physical relationship is applied, the PCR shall specify the relevant underlying physical relationships to be considered and establish or refer to the relevant allocation rules.	14025 Clause 6.7.1c, 6.7.2c 14027 Clause 6.5.3	PCR • Draft PCR that includes specification	1 Transparency	Allocation rules are listed in section 8 of SM Part A.	Complete
V	34	PCR Committee should refer to relevant standards for defining allocation procedures for reuse and recycling, as well as waste handling, and for scenarios for treating waste generation during the product life cycle.	14044 Clause 4.3.4 21930 Clause 7.1.7.2.7	PCR • Draft PCR that includes specification	1 Transparency	Allocation regarding output of waste per ISO standards is listed in section 8 of SM Part A.	Complete
V	35	PCR Committee shall refer to rules for and prioritize stepwise allocation for industrial processes that produce more than one product or deliver more than one service. For example, the refining of crude oil produces more than one different product, such as liquefied petroleum gas, gasoline, naphtha, diesel, asphalt, and others. PCR Committee shall refer to rules prohibiting system expansion as a method for avoiding allocation for construction products that may involve the production of coproducts; rather, the PCR shall prescribe an ISO-compliant method of allocation, or an allocation procedure if multiple methods are allowed.	14044 Clause 4.3.4.2 21930 Clause 7.2.5	PCR • Draft PCR including allocation method and procedure (where applicable)	2 Procurement	N/A	N/A
End	of life	escenario				How criteria were met	Due
V	36	PCR Committee shall prescribe ISO-compliant rules for allocation between product systems (across the system boundary) and designate whether Module D may be optionally reported in the EPD for construction products and services. If so, the PCR shall prescribe detailed calculation rules for any quantitative metrics reported therein. Note: Refer to the 'Allocating Burdens and Benefits of Materials Shared Across Product Systems'addendum.	21930 Clause 7.2.6	PCR: • Draft PCR with allocation rules and calculation rules	2 Procurement	N/A	N/A

Life cycle impact assessment	☑ 3	moundating); and 2) reference in parentalesia. Additionally, the Force encountry of 21030 Clause 0.5		PCR: • Draft PCR including all items	1 Transparency	Core indicators are listed in section 9 of SM Part A.	Complete
Interpretation	☑ 3	PCR Committee shall identify the steps for interpreting the results of the underlying LCA study.	14044 Clause 4.5 21930 Clause 9	PCR: • Draft PCR including all items	1 Transparency	SM Part A section 9.3 includes steps for interpreting the results of a background LCA.	Complete
	☑ 3:	PCR Committee shall ensure that the PCR communicates requirements (either qualitative or quantitative) and reference the methods and format used to report additional environmental information.	21930 Clause 8.4 14025 Clause 7.2.3, 7.2.4	PCR: Detailed specification on requirements and reference methods and format used to report additional environmental information.	1 Transparency	SM Part A section 10 includes a description of additional environmental information and the TR/EPD template in Appendix C showing placement of such information.	
	✓ 4	PCR Committee shall ensure that the PCR lists assumptions and limitations associated with the underlying LCA results.	14044 Clause 4.5.2.1	PCR: • Draft PCR including all items	1 Transparency	SM Part A section 5.2 includes a description of assumptions and limitations associated with TR/EPD results.	Complete
	✓ 4	PCR Committee shall specify different types of uncertainties to be propagated in the underlying LCA study and is encouraged to ensure that the PCR describes procedures for reporting uncertainty of results.	14044 Clause 4.4.4.2 14025 6.7.1b	PCR: • Draft PCR including all items	1 Transparency	SM Part A states that uncertainty shall be addressed in the data quality assessment and may be addressed qualitatively or quantitatively.	Complete

Part B for: commercial toilets, v3.1

June 12, 2025 | Sustainable Minds | Contact Kim Hammer (kim@sustainableminds.com)

EPD use case goal: 1, 2 or 3

EPD use levels are cumulative.
Transparency is the baseline. To create a 'Data source' conformant
PCR, all criteria in all checklists must be documented.

3. PCR Review Panel checklist Version 1.0, May 25, 2022 | ACLCA PCR Open Standard 2022

							3 Data source			
Categories		#	Criteria	ISO reference	Supporting documentation	EPD use	2 Procurement			
	Grou	und r	rulos				1 Transparency How criteria were met	Due	Comply (Y/N)	Commont
			The PCP Paview Panel chall use this checklist to quide their process of reviewing	This guidance	PCR supporting documentation: • Completed checklist	1 Transparency	Completed checklists saved with the BCB	Complete	Y	N/A
	0	2	PCR Review Panel members shall disclose any conflicts of interest using the conflict of interest form.	14027 Clause 7.2 14071	PCR supporting documentation: • Review panel completed conflict of interest forms	1 Transparency	Conflict of interest forms to be completed by review panel members.	Complete	Υ	N/A
Organizational	0	3	The PCR Review Panel shall meet with the Program Operator to discuss the PCR and how to perform their review. The PCR Review Panel shall investigate whether the PCR has been developed in accordance with relevant LCA-based claim standards, general program instructions, specifications, and guidelines, and ensure that it supports the creation of credible and consistent claims. The PCR Review Panel shall verify that the EPD template is consistent with the PCR guidelines. The PCR Review Panel shall generate and compile their comments in a review report. By the agreed upon date determined by the Program Operator, the review report shall be sent to the PCR Committee for consideration.	14027 Clause 7, 7.3, 7.5 14071	PCR supporting documentation: • Dated review report	1 Transparency	Aggregated review panel comments spreadsheet (i.e., detailed review report) sent to the PCR Committee on July 11, 2025	Complete	Y	N/A
	0	4	The PCR Review Panel shall confirm that the PCR meets relevant EPD-related federal and/or state procurement requirements (e.g., Buy Clean Legislation) that are specifically referenced in the PCR.	This guidance and relevant EPD-related federal and/or state procurement requirements	PCR supporting documentation: Reviewers' sign-off and/or list of any deviations from procurement requirements	2 Procurement	N/A	N/A	Υ	N/A
	0	5	The PCR Review Panel shall verify conformance the Program Operator and PCR Committee checklists and the appropriate category of EPD use is identified.	This guidance	PCR supporting documentation: • Reviewers' sign-off below and/or list of any deviations from this guidance. All three completed checklists returned to the PO.		Section below completed by review panel chair, who confirmed sign-off from all review panel members.	Complete	Υ	N/A

Reviewer acceptance for EPD use case (1,2 or 3) Date | Reviewer names & email

Date	Revier name & email	Acceptance for EPD use case Level 1 (Y/N)
12-Aug-25	Jack Geibig - Ecoform. Jgeibig@ecoform.com	Y
12-Aug-25	Hugues Imbeault-Tétreault - Groupe Ageco, hugues.i-tetreault@groupeageco.ca	Y
12-Aug-25	Rebe Feraldi - Pacific Northwest National Lab, rebe.feraldi@pnnl.gov	Y

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Part B comments worksheet

SM Transparency Report™ Framework
Part B: Product group definition
Version 2023

Sustainable Minds, PCR Part B: Product group definition | Commercial toilets, 2024. http://www.sustainableminds.com/files/transparency/pgds/Part_B_Product_Group_Definition_Commercial_Toilets_2023.pdf.

| Part B name: | Commercial toilets, v3.0 | Technical reviewers: | Hugues Imbeault-Tétreault, Jack Geibig, Rebe Feraldi

Topic #	Page #	Section #	Type of comment (Technical/editorial/other)	Reviewer comment	Reviewer's proposed change/solution	Response	Rationale
1	1		Editorial	"Because toilets are used in conjunction with a flushometer valve, only one use phase per valve-toilet combination should be used." I am not sure I understand the last part of the sentence.	Rephrase.	Accept	Sentence deleted. All use phase assumptions are in the subsequent section.
2	2	Program operator responsibilit ies/Existing PCRs, EPDs, TRs, or LCAs	Editorial	The following reference is not cited in the Residential toilet part B: "Relevant PCR: UL Environment: Product Category Rules (PCR) Guidance for Building-Related Products and Services Part B: Kitchen and Bath Fixture Fittings and Accessory Products (Version 1.0)"	Consider adding to the residential toilet part B.	Clarification added.	Deleted PCR from commercial toilets list of existing PCRs since it applies to flushometer valves, which are not in the scope of this PCR.
3	2	Program operator responsibilit ies/Harmon ization activities pursued	Editorial	There is no mention of UL's Kitchen and Bath Fisture Fittings and Accessory Products part B although it is written "see harmonization activities pursued" where it is cited.	Update accordingly	Clarification added.	Deleted PCR from commercial toilets list of existing PCRs since in applies to flushometer valves, which are not in the scope of this PCR.
4	2	Functional unit	Technical	The functional unit is not consistent with the geographical representativeness of the part B specified on page 1. The given rationale that products are available and used in the US market seems to be manufacturer-specific. A manufacturer could cover both US and Canadian market.	Change the representativeness of the functional unit or of the part B.	Accept	Updated to remove geographical reference within functional unit since geographic representative is detailed elsewhere.
5	4		Technical	- What is the rationale behind more flushes over the RSL for dual flush toilets? - Using a different numbers of flushes over the RSL for single flush toilets and dual flush toilets renders the two product systems functionally different. Therefore, it would prevent comparability between the two types of toilets would not be comparable.	If comparability is sought, I recommend to use the same number of flushes for all products or specify a number of flushes in the functional unit.	Accept	Updated flushes to both be 90 per day, and specified # of reduced & full flushes for the dual flush toilet.
6		General	Technical	The part B does not specify rules about industry- wide TR/EPD and benchmarking, although part A specifies that part B contains that information.	Add information or specify that the part B does not cover industry-wide TR/EPD.	Accept	Committee discussed possibility of industry-wide EPD creation and agreed that this set of Part Bs should not allow for their creation.
1	1		Edit	Non Part Parties states that "No interested parties were identified who did not participate in the working group."	Double negative. Perhaps reword to something like "all interested parties that were identified participated in the working group"	Accept	Removed double negative.
2	1		Tech	Product group description. It is unclear what is considered part of the toilet. For example, is the seat considered part of the fixture? Other hardware?	A clear description of what is included in the product should be given. This comes into play for things like B3 repair over a 20 year use cycle	Accept	Updated B3 to specify that toilet seats must be replaced every 10 years, if included with the toilet.
3	2		General/Tech	Functional Performance- I assume these are a list of the nationally accepted standards describing performance described in 4.8 of Part A? It is unclear in the Part B that these are required reporting. Also, some of the links arent active or even heloful. EPA link down.	Consider making clear whether reporting to these is required? Must all be reported? If not, how many must be, etc. As a reviewer I am not sure how to interpret this. Fix link.	Accept	Added 'conformance not required for PCR conformance' to clarify reviewer expectations and to reflect Part A which says they 'can' be used to describe the application of the product
4	2		General	System boundary - references ISO 21930 directly for reqs and does not cite SM part A.	Why arent you referencing the SM Part A? If you go beyond or deviate from 21930, these references will not pick up the differences. The Part A also contains a more detailed set of requirements specific to system boundaries that reference additional ISO 21930 reqs. Consider modifying these references.	Accept	SM Part A conformant to ISO 21930 plus more detailed.
5	2		Functional Unit	Functional Unit Section states "with replacements"	The term "with replacements" does not belong in a functional unit as the replacements are technically not part of the "function" of the product. In addition, the need for replacements is obvious given the disparity to the RSL to the 75 yr ESL, and are explicitly called out in the guidance for BS. Given the above, leaving this as is can lead to confusion	Accept	Replacements detailed in other sections.
6	2		Functional Unit	Section states "avg US residential	Honestly, I don't think this is needed in the functional unit either, but is fine if you choose to keep it. The use scenario is described in detail in the scenario details of the PCR for each module.	Accept	Updated to remove geographical reference within functional unit



Part B comments worksheet

SM Transparency Report™ Framework
Part B: Product group definition

Sustainable Minds, PCR Part B: Product group definition | Commercial toilets, 2025. http://www.sustainableminds.com/files/transparency/pgds/Part_B_Product_Group_Definition_Commercial_Toilets_2024_v3-1.pdf.

Version 2023

 Part B name:
 Commercial toilets, v3.1

 Technical reviewers:
 Hugues Imbeault. Tétreault, Jack Geibig, Rebe Feraldi

Topic Page Section Type of comment # # (Technical/editorial/other)	Reviewer comment	Reviewer's proposed change/solution	Response	Rationale
No technical or public comments received on update	e to v3.1.			