

Global GreenTag^{Cert™}

INTERNATIONAL EPD PROGRAM

sub-PCR Potable Water Systems PWS:2023 V1

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ENVIRONMENTAL PRODUCT DECLARATION (EPD) PROGRAM

Type III EPDs

Compliant to

EN 15804 +A2, ISO 14025 and ISO 21930

For construction products

Sub Product Category Rules based on Life Cycle Analysis

Potable Water Systems Sub-PCR PWS:2023 V1

Product Category Rules Stakeholder Comments

PCR: Potable Water Systems Sub-PCR PWS:2023 V1

Comments End: Monday 5th July 2023 (30 days)

The following Product Category Rules (PCR) are made available for a public stakeholder comment for a period of 30 days. This PCR has been developed for Type III Environmental Product Declarations (EPD), according to ISO 14025, EN 15804+A2, and ISO 21930 in order of precedence for **Potable Water Systems** sub-PCR PWS:2023 in international markets throughout Europe, North America, Australasia and Africa.

PCRs are to ensure consistency, comparability and completeness of methods and parameters in EPDs. They should provide harmonised method requirements for LCA studies, calculation rules, additional product environmental information and instructions on EPD content and format.

The Global GreenTag^{Cert™} EPD program operator welcomes all stakeholder comments on this PCR to ensure presentation of comparable declarations that best communicate construction product environmental life cycle issues worldwide to serve all key stakeholders and industries.

Specific comments should be emailed to certification9@globalgreentag.com before **Monday 5th July 2023** along with the following information:

Stakeholder's Name:

Organisation:

Position:

Email:

Phone:

General Comments:

I. Application

While the European Committee for Standardisation (CEN) standard EN 15804+A2 serves as core PCRs for all product categories, this document contains sub-PCRs that apply to a particular product category. The former is called the master PCR and the latter the sub-PCR document. When new product assessments are needed, a sub-PCR is developed to define new rules for that category. As environmental health legislation is enacted, rules in the master PCR document shall be revised with file name and revisions clearly marked so all such PCRs are identifiable in time.

II. Authors

This sub-PCR, compiled by Delwyn Jones, Director Sustainability, The Evah Institute a Division of Ecquate Pty Ltd have been customised for this product class Yasmin Kelly, Product Assessor and Deputy EPD Program Manager, Global GreenTag International. Rules were approved for Global GreenTag^{Cert™} EPD program adoption by Nana Bortsie-Aryee, Program Director, Global GreenTag International Pty Ltd.

III. Terms of Validity

- Product Category Potable Water Systems Sub-PCR PWS:2023 V1
- PCR issue date 05/07/2023 and
- Period of validity to 05/07/2028

IV. Goal

This sub-PCR is an EPD developing guide for defined product sets with specified functionality. Users include specifiers, manufacturers and stakeholders. It is valid for all such products and related components according to standards and technical approvals herein.

V. Product Set Definition

The declared product set includes filtered potable water systems used as:

- Boiling, chilling and aerating functionality being made of:
- Mineral, metal, ceramic, membrane, diatom, polymer or laminated in
- Container, catchment, piped, powered, gassed or vortices forms.

System outcomes and results declared reflect product performance at reference conditions of exposure, strength, wear, temperature and humidity defined by 14025:2006, 6.7. Conformance required is performance to meet International and Australian Standards including:

- AS 3498:2020 Safety and public health requirements for plumbing products - Water heaters and hot-water storage tanks;
- AS/NZS 4020:2018 Testing of products for use in contact with drinking water.

VI. Declared Units

This PCR's declared unit is a per capita use of a potable water system l/year during office hours for an average office, eg. 1.5 litres per capita potable water system use for 60% boiled and 40% chilled over 8 hours on week days 48 weeks of the year for a 60 person office.

VII. Functional Units

The functional unit is 7 years use /declared unit, cradle to grave, and beyond the system boundary.

References

AS 3498:2020 Safety and public health requirements for plumbing products - Water heaters and hot-water storage tanks

AS/NZS 4020:2018 Testing of products for use in contact with drinking water

Normative References

CENT/TR 15941 - 2010: Sustainability of construction works – Environmental Product Declarations-Methodology for the selection of generic data, CEN

CENT/TR 15942 - 2014: Sustainability of construction works - Environmental Product Declarations-Communication formats: business to business, CENCML LCA methodology, Institute of Environmental Sciences (CML), Faculty of Science, University of Leiden, Netherlands

EN 15643-1: 2011: Sustainability of construction works - Sustainability assessment of buildings – Part 1 general framework, CEN

EN 15643-2: 2011: Sustainability of construction works - Sustainability assessment of buildings – Part 2 framework for assessment of environmental performance, CEN

EN 15804:2012+A2:2019: Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products, CEN

EN15978 - 2011: Sustainability of construction works - Assessment of environmental performance of buildings - Calculation method, European Committee for Standardisation, CEN

ISO 9001:2008 Quality Management Systems Requirements

ISO 14001:2004 Environmental management systems: Requirements with guidance for use

ISO 14004:2004 EMS: General guidelines on principles, systems & support techniques

ISO 14015:2001 EMS: Environmental assessment of sites & organizations (EASO)

ISO 14020:2000 Environmental labels & declarations — General principles

ISO 14024:2009 Environmental labels & declarations -- Type I Principles & procedures

ISO 14025:2006 Environmental labelling & declarations Type III EPDs Principles & procedures

ISO 14031:1999 EM: Environmental performance evaluation: Guidelines

ISO 14040:2006 EM: Life cycle assessment (LCA): Principles & framework, London, BSI, 2006.

ISO 14044:2006 EM: LCA: Requirement & guideline LCI; LCIA Interpretation, London, BSI, 2006.

ISO 14064:2006 EM: Greenhouse Gases: Organisation & Project reporting, Validation & verification

ISO 14644-1: Cleanrooms and associated controlled environments – Part 1: Classification of air cleanliness

ISO 15392:2008 Sustainability in building construction General principles

ISO 15686-1:2011 Buildings & constructed assets Service life planning Part 1: General principles

ISO 15686-2:2012 Buildings & constructed assets Service life (SL) planning Part 2: prediction

ISO 15686-8:2008 Buildings & constructed assets SL planning Part 8: Reference & estimation

ISO 21929-1:2011 Sustainability in building construction Sustainability indicators Part 1 Framework

ISO 21930:2007 Building construction: Sustainability, Environmental declaration of building products

ISO 21931-1:2010 Sustainability in building construction Framework for methods of assessment for environmental performance of construction works Part 1: Buildings

ISO 21932:2013 Sustainability in buildings and civil engineering works -- A review of terminology

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