

Global GreenTag^{Cert™}

INTERNATIONAL EPD PROGRAM



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ENVIRONMENTAL PRODUCT DECLARATION (EPD) PROGRAM

Type III EPDs

Compliant to

**EN 15804:2012 +A2:2019,
ISO 14025 and
ISO 21930
Standards**

For construction products

Sub Product Category Rules (PCR) based on Life Cycle Analysis

Filtered Water Systems sub-PCR 2023 FWS V1

I. Application

While CEN standard EN 15804+A2:2019 serves as the core Product Category Rules (PCR's) for all product categories, this document contains sub-PCRs that apply to a particular product category. The former is called the PCR master document and the latter the sub-PCR. When new product assessments are needed, a sub-PCR is developed and new rules defined for that category. As environmental health legislation is enacted, rules in the master document shall be revised with file name and revisions clearly marked so all such PCRs are identifiable in time.

II. Authors

These product category rules, compiled by Delwyn Jones, Director Sustainability, The Evah Institute a Division of Ecuate Pty Ltd have been customised for this product class by Yasmin Kelly, Product Assessor and Deputy EPD Program Manager, Global GreenTag International. Rules were approved for Global GreenTag adoption by Nana Bortsie-Aryee, Program Director, Global GreenTag International Pty Ltd.

III. Terms of Validity

- Product Category Rules Filtered Water Systems sub-PCR 2023 FWS V1
- PCR issue date 16/05/2023 and
- Period of validity to 16/05/2028

IV. Goal

The intended goal of this sub-PCR is a guide for developing EPDs for sets of defined products with specified functionality. Users include specifiers, manufacturers and stakeholders. It is valid for all such defined products and related components according to standards and technical approvals herein.

V. Product Set Definition

The declared filtered water systems for filtering, heating, cooling and or aerating functionality for:

- Kitchen, utility room and other interior spaces including system fabrications made of:
 - Metal, ceramic, glass, polymer, mineral, amorphous and electronic components of
 - homogenous, heterogeneous, cast, extruded, fibrous and or membrane forms etc.

Specifications must conform to International and Australian Standards or other equivalents including:

- AS/NZS 4020:2018 Testing of products for use in contact with drinking water
- AS / NZS 3666.1:2011 Air-handling and water systems of buildings - Microbial control - Design, installation and commissioning
- AS / NZS 6400:2016 Water Efficient Products - Rating and Labelling - Australian Government.
- AS 3498:2020 Authorization requirements for plumbing products – Water heaters and hot water storage tanks;

System outcomes and results are declared per given unit and reflect product performance at reference conditions of strength, wear, temperature and humidity defined by 14025:2006, 6.7. 6.7.

VI. Declared Unit

This PCR's declared unit is mass of a given holding capacity water filtration system in kilograms.

VII. Functional Unit

This PCR's functional unit is 20 years use in any building interior/ kilograms of a declared water filtration system cradle to gate plus options to grave and fate beyond the system boundary.

Normative References

- AS/NZS 4020:2018 Testing of products for use in contact with drinking water
- AS / NZS 3666.1:2011 Air-handling and water systems of buildings - Microbial control - Design, installation and commissioning
- AS / NZS 6400:2016 Water Efficient Products - Rating and Labelling - Australian Government
- AS 3498:2020 Authorization requirements for plumbing products – Water heaters and hot water storage Tanks
- CENT/TR 15941 - 2010: Sustainability of construction works – Environmental Product Declarations- Methodology for the selection of generic data, European Committee for Standardisation (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 6707-1:2004 Building and civil engineering: Vocabulary Part 1: General terms
- 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 14050:2009 Environmental management: Vocabulary
- ISO 14064:2006 EM: Greenhouse Gases: Organisation & Project reporting, Validation & verification
- 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

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