

Global GreenTag^{Cert™}

INTERNATIONAL EPD PROGRAM

Sub-PCR Benchtops (STRUCTURAL) BEC: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 (PCR) based on Life Cycle Analysis

Benchtops (STRUCTURAL) Sub-BEC:2023 V1

I. Application

While CEN standard EN 15804+A2 serves as the core Product Category Rules (PCR's) pertaining to 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 is called 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 for those points in time.

II. Authors

These product category rules, 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 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 Benchtops (STRUCTURAL) Sub-PCR BEC:2023 V1

PCR issue date 05/06/2023 and

Period of validity to 05/06/2028

IV. Goal

The intended goal of this sub-PCR is a guide for developing EPDs for sets of defined product 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 product set includes benchtops used for interior and exterior applications of all kinds having:

- structural functionality including fabrications of:
- Metal, polymer, timber, pulp, glass material types formed as
- Homogenous, heterogeneous, cast and extruded physical forms etc.

Specifications must conform to International and Australian Standards including:

- AS 1859.1:2017 Reconstituted wood-based panels - Specifications Particleboard
- AS 4386:2018 Cabinetry in the built-in environment — Commercial and domestic

Commercial and domestic system outcomes and results are declared per kg/m² and reflect product performance at reference conditions of strength, wear, temperature and humidity defined by 14025:2006, 6.7.

VI. Declared Unit

The declared unit is benchtrop of given length, depth and height in kg/m² including cradle to gate scope (A1-A3).

VII. Functional Unit

The functional unit is 60 years of benchtrop use of given volume in m³, mass in kg/m² in any building sector, including cradle to gate (A1-A3) plus options and beyond the system boundary.

Normative References

- AS 1859.1:2017 Reconstituted wood-based panels - Specifications Particleboard
- AS 4386:2018 Cabinetry in the built-in environment — Commercial and domestic
- 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

The Evah Institute, A Division of Ecquate Pty Ltd
ABN 15129886675
PO Box 123, Thirroul NSW 2515 Australia
<http://www.evah.com.au>
Phone +61 (0)7 5545 0998

Global GreenTag International Pty Ltd
ABN 70155663013
Level 38/ 71 Eagle St 4000 Australia
www.globalgreentag.com
Tel. + 617 3399 9686