

Global GreenTag^{Cert™}

INTERNATIONAL EPD PROGRAM

sub-PCRPCR Furniture Products FUP: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

Furniture Products Sub-PCR FUP:2023 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 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 Furniture Products Sub-PCR 2023 FUP V1

PCR issue date 05/06/2023 and

Period of validity to 05/06/2026

IV. Goal

The intended goal of this sub-PCR is a guide for developing EPDs 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 furniture products used for interior applications, functioning as a:

- chair, stool, table, desk, workstation, storage, shelving, compactus, locker being fabricated of:
- metal, polymer, wood, pulp, ceramic, paper, cloth, composites material types and formed as:
- fittings, castings, extrusions, mouldings, pressings and roll form shapes or chemical bonds etc.

Specifications must conform to International and Australian Standards including:

- Australian and New Zealand Standard AS/NZS 4442:2018 Office Desks;
- Australian and New Zealand Standard AS/NZS 4785.3:2002 Furniture - Fixed height chairs
Determination of stability - Upright chairs
- Australian Standard AS 5079.3 – 2003 (R2014) Filing Cabinets – Mobile Pedestals
- International Standards Association Standard ISO 7170:2021 Furniture — Storage units — Test methods for the determination of strength, durability and stability
- European Standard EN 12521 – Furniture. Strength, durability and safety. Requirements for domestic tables
- European Standard EN 15372 – Furniture. Strength, durability and safety. Requirements for non-domestic tables
- EN 1129-2 – Furniture – Foldaway beds – Safety requirements and testing – Part 2: Test methods

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

VI. Declared Units

The declared unit is furniture / kg or m² building nett lettable area cradle to gate scope in any sector.

VII. Functional Units

The functional unit is 20 years use of the declared unit cradle to grave system boundary and beyond.

Normative References

AS/NZS 4442:2018 Office Desks;

AS/NZS 4785.3:2002 Furniture - Fixed height chairs - Determination of stability - Upright chairs

AS 5079.3 – 2003 (R2014) Filing Cabinets – Mobile Pedestals

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 1129-2 – Furniture – Foldaway beds – Safety requirements and testing – Part 2: Test methods, CEN

EN 12521 – Furniture. Strength, durability and safety. Requirements for domestic tables, CEN

EN 15372 – Furniture. Strength, durability and safety. Requirements for non-domestic tables, CEN

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 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

ISO 7170:2021 Furniture — Storage units — Test methods for the determination of strength, durability and stability

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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