

Global GreenTag^{Cert™}

INTERNATIONAL EPD PROGRAM

sub-PCR 2022 FC v1 Interior Floorcovering

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green product certification
trust brands

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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

Interior Floorcoverings sub-PCR 2022 FC V1

I. Application

While CEN Standard EN 15804:2012+A2:2019 Sustainability of construction works: Environmental product declarations: Core rules for the product category of construction products serves as core Product Category Rules (PCR)s pertaining to all product categories, this document contains sub-PCRs for 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

This sub-PCR, compiled by Delwyn Jones, Director Sustainability, The Evah Institute a Division of Ecquate Pty Ltd has been customised for this product class only. Rules were approved for Global GreenTag adoption by David Baggs, Program Director, Global GreenTag International Pty Ltd.

III. Terms of Validity

- Floorcoverings sub-PCR 2022 FC V1 PCR issued 20/03/2022 valid to 20/03/2027

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 product set includes floorcovering used for buildings of all kinds including fabrications of: resilient, dry or wet areas, moisture resistant, carpet, felting, underlay or backing made from: woven, non-woven, homogenous, heterogeneous, melded, laminated, cast or extruded forms of: metal, wood, pulp, paper, polymer, vinyl, rubber, plaster, wool, hair, fibre, fabric or composites

Where relevant, specifications must conform to International and Australian Standards or other equivalent recognised standards including:

- Australian and New Zealand Standard AS/NZS 2111.1:1996 Textile Floor Coverings – Test and Measurements – Machine-made Textile Floor Coverings – Determination of Total Thickness and or;
- AS 1884 Floor coverings – Resilient sheet and tiles.
- ASTM F970 Standard Test Method for Static Load Limit and EN 425/ISO 4918 Chair Castors test.
- AS ISO 9239 Reaction to fire tests for flooring; BCA Spec C1.10 Reaction to Fire and BCA section C1.10a Fire Hazard Properties – Floors, Walls and Ceilings;
- AS/NZS 1860.1:2002 Particleboard Flooring-Specifications; EN ISO 10582:2012 Resilient Floorcoverings Heterogeneous Vinyl Floorcoverings Specification; EN ISO 105874: 2012 Resilient, Laminate and Textile Floorcoverings Classification;
- AS 4586 Slip resistance classification of new pedestrian surface materials
- EN 13893 Resilient, laminate and textile floor coverings; EN 660-2 Determination of wear resistance; EN ISO 10581 Resilient floor coverings specifications
- International Standards Association Standard ISO/TC 219 – Floor Coverings; ISO 14486:2012 Laminate Floor Covering – Specification

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

VI. Declared Unit

The declared unit is a kilogram of a given mass of interior floorcovering per square metre covered in any building sectors cradle to gate.

VII. Functional Unit

The functional unit is 20 years use of a given area of floorcovering per kilogram cradle to grave

Normative References

Australian and New Zealand Standard AS/NZS 2111.1:1996 Textile Floor Coverings – Test and Measurements – Machine-made Textile Floor Coverings – Determination of Total Thickness and or;

AS ISO 9239 Reaction to fire tests for flooring;

BCA Spec C1.10 Reaction to Fire and BCA section C1.10a Fire Hazard Properties – Floors, Walls and Ceilings;

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

CML LCA methodology, Institute of Environmental Sciences (CML), Faculty of Science, University of Leiden, Netherlands

CEN/TR15615, Explanation of the general relationship between various European standards and the Energy Performance of Buildings Directive (EPBD) — Umbrella Document

CEN/TR17005, Sustainability of construction works — Additional environmental impact categories and indicators — Background information and possibilities — Evaluation of the possibility of adding environmental impact categories and related indicators and calculation methods for the assessment of the environmental performance of buildings

Directive 2009/28/EC of the European Parliament and of the Council of 23 April 2009 on the promotion of the use of energy from renewable sources and amending and subsequently repealing Directives 2001/77/EC and 2003/30/EC

EN ISO 14024:2000, Environmental labels and declarations — Type I environmental labelling — Principles and procedures (ISO 14024:1999)

EN ISO 14040:2006, Environmental management— Life cycle assessment— Principles and framework (ISO14040:2006)

EN 15242, Ventilation for buildings — Calculation methods for the determination of air flow rates in buildings including infiltration

EN 15243, Ventilation for buildings — Calculation of room temperatures and of load and energy for buildings with room conditioning systems

EN 15603, Energy performance of buildings — Overall energy use and definition of energy ratings

EN 15643-1:2010, Sustainability of construction works — Sustainability assessment of buildings —Part 1: General framework

EN 15643-2, Sustainability of construction works — Assessment of buildings — Part 2: Framework for the assessment of environmental performance

EN 15643-3, Sustainability of Construction Works — Assessment of Buildings — Part 3: Framework for the assessment of social performance

EN 16449, Wood and wood-based products — Calculation of the biogenic carbon content of wood and conversion to carbon dioxide

European Waste Framework Directive: Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives

GLOBAL GUIDANCE PRINCIPLES FOR LIFE CYCLE ASSESSMENT DATABASES. A basis for greener processes and products, 'Shonan Guidance Principles' United Nations Environment Programme, 2011; ISBN: 978-92-807-3174-3

ISO/TS15686-9, Buildings and constructed assets — Service-life planning — Part 9: Guidance on assessment of service-life data

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

UN Environment Life Cycle Initiative, Data Review Criteria. Annex A: Life Cycle Inventory Dataset Review Criteria. Andreas Ciroth, Jutta Hildenbrand, Alessandra Zamagni, Chris Foster, 2015, 10.13140/RG.2.1.2383.4485

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