

Global GreenTag^{Cert™}

INTERNATIONAL EPD PROGRAM

Geotextiles Sub-PCR 2025 GEV1



GLOBAL
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green product certification
trust brands

GLOBAL GREENTAG INTERNATIONAL PTY LTD

ENVIRONMENTAL PRODUCT DECLARATION (EPD) PROGRAM

Type III EPDs

Compliant to

EN 15804:2012 +A2:2019,

ISO 14025 and

ISO 21930

Standards

For infrastructure and construction products

Sub-Product Category Rules (PCR)

based on

Life Cycle Analysis

Geotextiles Sub-PCR 2025 GEV1

Issued 14th January 2025

Geotextiles Sub-PCR 2025 GE

Product Category Rules Stakeholder Comments

Commentary End Date: Tuesday 14th February 2025 (30 days)

The GreenTag^{Cert™} International Environmental Product Declarations (EPD) program operator welcomes all stakeholder comments on this Product Category Rule (PCR) document.

PCRs are to present comparable declarations that best serve and communicate infrastructure and construction product key environmental life cycle issues to all key stakeholders around the world.

These PCRs for international markets throughout Europe, North America, Australasia and Africa are available for a public stakeholder comment for a period of 30 days.

PCR instructions are to ensure use of consistent, comparable and complete methods, parameters and calculations in Life Cycle Inventory, Life Cycle Impact Assessment (LCIA) and Life Cycle Benefit (LCBA) in Life Cycle Assessment (LCA) for EPDs.

In addition, they provide rules for content format and additional product environmental information including and Life Cycle Benefit Assessment (LCBA) results essential for Nature Positive ecolabelling.

This sub-PCR was developed for Type III Environmental Product Declarations (EPD), according to ISO 14025, EN 15804+A2 and ISO 21930.

Specific comments should be emailed to certification9@globalgreentag.com before 14th February 2025 along with the following information:

Stakeholder's Name:

Organisation:

Position:

Email:

Phone:

General Comments:

I. Application

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

While they serve as core Product Category Rules (PCR)s pertaining to all product categories this sub-PCR relates 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 for this product class by Delwyn Jones, Director, The Evah Institute a Division of Ecquate Pty Ltd. They were then reviewed by Yasmin Kelly, Product Assessor, Global GreenTag International.

The rules were subsequently approved for Global GreenTag adoption by Nana Bortsie-Aryee, Program Director, Global GreenTag International Pty Ltd.

III. Terms of Validity

- Product Category Rules Geotextiles Sub-PCR 2025 GE
- Issue date 14/02/2025 and
- Period of validity to 14/02/2030

IV. Goal

The goal of this sub-PCR is to guide EPD development to meet specific functionality outcomes for users including specifiers, manufacturers and stakeholders.

It is valid according to standards and technical approvals for all such defined products and related components herein.

V. Product Set Definition

The declared permeable geotextiles product set for engineering and building applications including at:

- airfield, canal, coastal, dam, embankment, railway, reservoir, road and on soil exterior sites for,
- retention, separation, filtration, reinforcement, drainage and silt fence functions with fabrications of:
- wool, hemp, pulp, polymer, ceramic material with metal, wood and other fixing types comprising:
- fibrous, knitted, woven, homogenous, heterogeneous, cast and extruded physical forms etc.

Specifications should conform to International and Australian Standards and advice including:

- International standards geotextiles by ISO/TC 221 and European standards by CEN/TC 189 include:
- EN13249 for roads and other trafficked areas, EN13250 for Railways,
- E13251 for Earthworks, foundations and retaining walls,
- EN13252 for drainage Systems, EN13253 for erosion control works and
- EN13256 for tunnels and underground structures.

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

VI. Declared Unit

The declared unit is brand-named geotextile of given mass per unit area kg/m² area in all denoted exterior engineering and building application environments

VII. Functional Unit

The functional unit is 2 years use of the declared geotextile per mass in kilograms, cradle to gate plus options to grave and fates beyond the system boundary.

VIII. Normative References

- EN 13249 Geotextiles and geotextile-related products - Characteristics required for use in the construction of roads and other trafficked areas
- EN 13250 Geotextiles and geotextile-related products - Characteristics required for use in the construction of railways
- EN 13251 Geotextiles and geotextile-related products - Characteristics required for use in earthworks, foundations and retaining structures
- EN 13252 Geotextiles and geotextile-related products - Characteristics required for use in drainage systems
- EN 13253 Geotextiles and geotextile-related products - Characteristics required for use in erosion control works (coastal protection, bank revetments)
- EN 13256 Geotextiles and geotextile-related products - Characteristics required for use in the construction of tunnels and underground structures
- 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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