
Hidroizolacijski trakovi - Okoljske deklaracije za proizvode - Pravila za kategorije proizvodov za ojačene bitumenske, polimerne in elastomerne trakove za tesnjenje (streh) - 1. del: Pristop "od zibelke do groba"

Flexible sheets for waterproofing - Environmental product declaration - Product Category Rules for reinforced bitumen, plastic and rubber flexible sheets for (roof) waterproofing - Part 1: Cradle to grave

Abdichtungsbahnen - Umweltproduktdeklaration - Produktkategorieregeln für Bitumenbahnen und synthetische Abdichtungsbahnen für die Abdichtung (von Dächern) - Teil 1: Von der Wiege bis zur Bahre

Feuilles souples d'étanchéité - Déclarations environnementales sur les produits - Règles spécifiques des catégories de produits pour feuilles bitumineuses armées, feuilles plastiques et élastomères pour l'étanchéité (de toiture) - Partie 1 : Du berceau à la tombe

Ta slovenski standard je istoveten z: prEN 17388-1

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Flexible sheets for waterproofing - Environmental product declaration - Product Category Rules for reinforced bitumen, plastic and rubber flexible sheets for (roof) waterproofing - Part 1: Cradle to grave

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This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 254.

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COMITÉ EUROPÉEN DE NORMALISATION
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Contents	Page
European foreword	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	6
4 Symbols and abbreviations	7
5 General aspects.....	7
5.1 Objective of the PCR.....	7
5.2 Types of EPD with respect to life cycle stages covered	8
5.3 Comparability of EPD for construction products	8
5.4 Additional information	8
5.5 Ownership, responsibility and liability for the EPD.....	8
5.6 Communication formats.....	8
6 Product Category Rules for LCA.....	8
6.1 Product category	8
6.2 Life cycle stages and information modules to be included	9
6.2.1 General.....	9
6.2.2 A1-A3, product stage, information modules	9
6.2.3 A4-A5, construction process stage, information modules	9
6.2.4 B1-B5, use stage, information modules related to the building fabric.....	9
6.2.5 B6-B7, use stage, information modules related to the operation of the building	9
6.2.6 C1-C4, end of life stage, information modules	9
6.2.7 D, benefits and loads beyond the system boundary information module	9
6.3 Calculation rules for the LCA	9
6.3.1 Functional unit.....	9
6.3.2 Declared unit	9
6.3.3 Reference service life (RSL)	9
6.3.4 System boundaries	10
6.3.5 Criteria for the exclusion of inputs and outputs (cut-offs)	11
6.3.6 Selection of data	11
6.3.7 Data quality requirements	12
6.3.8 Developing product level scenarios	12
6.3.9 Units.....	17
6.4 Inventory analysis	17
6.4.1 Collecting data.....	17
6.4.2 Calculation procedures.....	17
6.4.3 Allocation of input flows and output emissions	17
6.5 Impact assessment	17
7 Content of the EPD	17
7.1 Declaration of general information.....	17
7.2 Declaration of environmental parameters derived from LCA.....	18
7.2.1 7.2.1 General.....	18
7.2.2 Rules for declaring LCA information per module	18
7.2.3 Parameters describing environmental impacts	18

7.2.4	Parameters describing resource use.....	18
7.2.5	Other environmental information describing different waste categories and output flows	18
7.3	Scenarios and additional technical information	18
7.3.1	General	18
7.3.2	Construction process stage	18
7.3.3	B1-B7 Use stage	19
7.3.4	End of life	19
7.4	Additional information on release of dangerous substances to indoor air, soil and water during the use stage	20
7.4.1	Indoor air.....	20
7.4.2	Soil and water	20
7.5	Aggregation of information modules	20
8	Project report.....	20
8.1	General	20
8.2	LCA-related elements of the project report	20
8.3	Documentation on additional information	20
8.4	Data availability for verification	20
9	Verification and validity of an EPD.....	20
Annex A (normative) Extension rules		21
A.1	General	21
A.2	Rules for plastic sheets according EN 13956	21
A.2.1	General	21
A.2.2	Scenario 1: Sheets without reinforcement.....	22
A.2.3	Scenario 2: Reinforced sheets.....	22
A.2.4	Scenario 3: sheets with backing	23
A.2.5	Scenario 4: Combination	24
A.3	Rules for reinforced bitumen sheets according EN 13707	24
A.4	Rules for rubber sheets according EN 13956	24

prEN 17388-1:2019 (E)

European foreword

This document (prEN 17388-1:2019) has been prepared by Technical Committee CEN/TC 254 “Flexible sheet for waterproofing”, the secretariat of which is held by NEN.

This document is currently submitted to the CEN Enquiry.

EN 17388, *Flexible sheets for waterproofing - Environmental product declaration - Product Category Rules for reinforced bitumen, plastic and rubber flexible sheets for (roof) waterproofing* consists of two parts:

- *Part 1: Cradle to grave*
- *Part 2: Cradle to gate with options*

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Introduction

CEN/TC 254 has decided to provide the Product Category Rules (PCR) standard in 2 parts. The scope of these different parts is based on the different types of EPD identified by EN 15804:2012+A1:2013. This is made to avoid misinterpretation in the market about the EPD scope and content. In the EPD, a clear reference to the applicable part of the standard will be included.

This standard consists of two parts:

- Part 1: Cradle to grave EPD using generic data and generic system specifications or using specific data and specific system specifications;
- Part 2: Cradle to gate with options EPD using specific data and/or specific system specification.

If a new version of EN 15804:2012+A1:2013 is available it might be possible that this standard will be revised.

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prEN 17388-1:2019 (E)**1 Scope**

This document provides Product Category Rules (PCR) for the assessment of the environmental performance of reinforced bitumen, plastic and rubber flexible sheets for which the intended use is roof waterproofing.

NOTE The reference product standards are EN 13707 and EN 13956.

This document is intended to be used for the development and issue of full cradle to grave EPD using:

— either generic data and generic system specifications (scenario's) for generic EPD;

or

— specific data and specific system specifications (scenario's), for specific EPD.

This PCR includes requirements and rules to:

— define the parameters to be declared and the way in which they are collected and reported;

— describe which stages of a product's life cycle are considered in the EPD and which processes are to be included in the life cycle stages;

— include the rules for calculating the Life Cycle Inventory and the Life Cycle Impact Assessment underlying an EPD, including the specification of the quality of the applied data;

— define generic data and system specifications which are to be used for generic EPD.

2 Normative references

The following standards are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13707, *Flexible sheets for waterproofing — Reinforced bitumen sheets for roof waterproofing — Definitions and characteristics*

EN 13956, *Flexible sheets for waterproofing — Plastic and rubber sheets for roof waterproofing — Definitions and characteristics*

EN 15804:2012+A1:2013, *Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1**average data**

arithmetic calculated information

3.2**generic data**

data for a product or a product family, provided by one or more suppliers without the need for additional proof of the representativity

3.3**generic EPD**

EPD created by the manufacturer or a group of manufacturers (for example industrial sector associations) for a product or product families, based on generic data which apply to the product or product family concerned

3.4**product**

product with a unique identification code made and marketed for an intended use

3.5**product family**

products with similar intended uses, the boundaries of which are defined by the EPD applicant

3.6**roof waterproofing system**

waterproofing system used in the roof of a building, including roofs used for parking of vehicles and for roof gardens

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3.7**specific data**

data representative for a product or product family, provided by one supplier

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3.8**specific EPD**

EPD created by the manufacturer for a product or product family, based on specific and generic data which apply to the product or product family concerned

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3.9**waterproofing system**

assembly of one or more sheets in its applied and jointed form to prevent the passage of water from one plane to another, which has certain performance characteristics, to be assessed as a whole

4 Symbols and abbreviations

For the purposes of this document, the symbols and abbreviations given in EN 15804:2012+A1:2013 apply.

5 General aspects**5.1 Objective of the PCR**

In addition to EN 15804:2012+A1:2013, 5.1, this document defines the requirements on information, data and environmental parameters to be included in an Environmental Product Declaration (EPD) for a full cradle to grave EPD using generic data and generic system specifications for:

- roof waterproofing systems with reinforced bitumen flexible sheets for roof waterproofing according EN 13707;

prEN 17388-1:2019 (E)

or

- roof waterproofing systems with plastic and rubber flexible sheets for roof waterproofing according EN 13956.

5.2 Types of EPD with respect to life cycle stages covered

In addition to EN 15804:2012+A1:2013, 5.2 the following shall apply.

The LCA based information in an EPD shall cover (see Figure 1 of EN 15804:2012+A1:2013) the life cycle of a product according to the system boundary (see 6.3.4). In this case, the EPD covers the product stage, construction process stage, use stage and end of life stage. In this EPD, the information module D may be included.

It is allowed to use this PCR for the development of EPDs for a product or a product family coming from:

- one specific production site;
- a company with several production sites;
- a sector (group of several production sites from different companies).

It is not allowed to use this PCR for the development of EPDs by grouping products based on different materials into 1 product family. Materials can be different in their nature and way of manufacturing, for example PVC, FPO, ECB, EPDM and Bitumen.

NOTE In case of a company or sector EPD, additional rules are defined in 6.3.6 and 6.3.7.

In case of a generic EPD, the calculation shall be credible, realistic and traceable. All products and production locations identified on the EPD shall deliver their data to calculate the average. Whereby the data of the individual products and production location shall be based on a representative product for the production location under the defined scope of the EPD.

5.3 Comparability of EPD for construction products

In addition to EN 15804:2012+A1:2013, 5.3 the following shall apply.

The cradle to grave analysis shall integrate all relevant requirements to ensure the technical performances of the products in the end-use.

5.4 Additional information

EN 15804:2012+A1:2013 shall apply.

5.5 Ownership, responsibility and liability for the EPD

EN 15804:2012+A1:2013 shall apply.

5.6 Communication formats

EN 15804:2012+A1:2013 shall apply.

6 Product Category Rules for LCA**6.1 Product category**

The product category referred to in this standard includes roof waterproofing systems with reinforced bitumen, plastic and rubber flexible sheets for roof waterproofing according EN 13707 and EN 13956.

6.2 Life cycle stages and information modules to be included

6.2.1 General

All life stages shall be reported. Module D is optional.

6.2.2 A1-A3, product stage, information modules

EN 15804:2012+A1:2013 shall apply.

6.2.3 A4-A5, construction process stage, information modules

EN 15804:2012+A1:2013 shall apply.

6.2.4 B1-B5, use stage, information modules related to the building fabric

EN 15804:2012+A1:2013 shall apply.

6.2.5 B6-B7, use stage, information modules related to the operation of the building

Modules B6-B7 (use stage, information modules related to the operation of the building) are not relevant for roof waterproofing systems. The abbreviation n.r. (not relevant) shall be reported in the EPD.

6.2.6 C1-C4, end of life stage, information modules

In addition to EN 15804:2012+A1:2013, the following rules apply:

Module C1 (de-construction, demolition) is reported. When it is neglected in the LCA calculation due to the insignificant impact, the abbreviation n.r. (not relevant) shall be reported in the EPD.

6.2.7 D, benefits and loads beyond the system boundary information module

EN 15804:2012+A1:2013 shall apply. [oSIST prEN 17388-1:2019
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6.3 Calculation rules for the LCA

6.3.1 Functional unit

The functional unit provides the quantitative normalization for comparing EPDs of equivalent function.

This PCR is valid for all roof waterproofing systems with flexible sheets. The functional unit is 1 m² roof waterproofing system, with an estimated service life of the building.

The reference service life of the roof waterproofing system shall be defined and declared according to 6.3.3.

The thickness or mass per m² of the sheets shall be expressed according to the applicable product standard.

For generic EPD, whereby a formula to calculate the values for other sheets thicknesses or masses may be included within the LCA-report and EPD, the formula shall comply with the rules defined in Annex A.

6.3.2 Declared unit

The declared unit for roof waterproofing sheets is 1 m².

6.3.3 Reference service life (RSL)

In addition to EN 15804:2012+A1:2013, the following rules shall apply:

- The Reference Service Life (RSL) refers to the declared technical and functional performance of the roof waterproofing system / product installed on a building.