



**SLOVENSKI STANDARD**  
**oSIST prEN 17388-2:2022**  
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**Hidroizolacijski trakovi - Okoljske deklaracije za proizvode - Pravila za kategorije proizvodov za bitumenske in sintetične elastomerne trakove - 2. del: Pristop "od zibelke do vrat" z možnostmi (Cradle to gate with options)**

Flexible sheets for waterproofing - Environmental product declarations - Product Category Rules for bituminous and synthetic flexible sheets - Part 2: Cradle to gate with options

Abdichtungsbahnen - Umweltproduktdeklaration - Produkt-Kategorie-Regeln für Bitumenbahnen und synthetische Abdichtungsbahnen für die Abdichtung (von Dächern) - Teil 2: Von der Wiege bis zum Werktor mit Optionen

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Feuilles souples d'étanchéité - Déclarations environnementales sur les produits - Règles spécifiques des catégories de produits pour feuilles bitumineuses et feuilles synthétiques - Partie 2 : Du berceau à la sortie de l'usine avec options

**Ta slovenski standard je istoveten z: prEN 17388-2**

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## Flexible sheets for waterproofing - Environmental product declarations - Product Category Rules for bituminous and synthetic flexible sheets - Part 2: Cradle to gate with options

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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.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## prEN 17388-2:2022 (E)

### European foreword

This document (prEN 17388-2:2022) has been prepared by Technical Committee CEN/TC 254 “Flexible sheets for waterproofing”, the secretariat of which is held by NEN.

This document is currently submitted to CEN Enquiry.

EN 17388, *Flexible sheets for waterproofing - Environmental product declarations - Product category rules for reinforced bitumen, plastic and rubber flexible sheets for roof waterproofing*, consists of the following parts:

- Part 1: Cradle to grave and module D
- Part 2: Cradle to gate with options, modules C1-C4 and module D

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## Introduction

CEN TC 254 has decided to provide this European standard in 2 parts. The scope of these different parts is based on the different types of environmental product declarations (EPD) identified by EN 15804:2012+A2:2019. This will avoid misinterpretation in the market about the EPD scope and content.

This European standard consists of two parts:

- Part 1: cradle to grave and module D;
- Part 2: cradle to gate with options, modules C1-C4 and module D.

NOTE 1 The clauses and sub clauses with exception of the annexes are corresponding with the clauses and sub clauses of EN 15804:2012+A2:2019.

NOTE 2 Cradle to grave and module D. All modules A, B, C and D are mandatory.

NOTE 3 Cradle to grave with options, modules C1-C4 and module D. Modules A1-A3, C and D are mandatory, additional modules A4-A5, B1-B7 are optional.

NOTE 4 For further information see Annex B.

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**prEN 17388-2:2022 (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 a cradle to gate with options, modules C1-C4 and module D EPD using specific data. This document includes requirements and rules to:

- define the indicators 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 (LCI) and the life cycle impact assessment (LCIA) underlying an EPD, including the specification of the quality of the applied data.

**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+A2:2019, *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 terms and definitions give in EN 15804:2012+A2:2019 and the following apply.

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

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

**3.1****average data**

data representative of a product, product group or construction service, provided by one or more manufacturers

**3.2****generic data**

surrogate data used if no specific data is available



### 3.3

#### **product**

item manufactured or processed for incorporation in construction works

### 3.4

#### **product group**

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

### 3.5

#### **roof 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, to be used in the roof of a building, including roofs used for parking of vehicles and for roof gardens

### 3.6

#### **specific data**

data representative for a product, product group or construction service, provided by one manufacturer

## 4 Symbols and abbreviations

For the purposes of this document, the symbols and abbreviations given in EN 15804:2012+A2:2019 shall apply.

## 5 General aspects

### 5.1 Objective of the PCR

In addition to EN 15804:2012+A2:2019, 5.1, this document defines the requirements on information, data and environmental indicators that shall be included in an environmental product declaration (EPD) for a cradle to gate with options, modules C1-C4 and module D EPD using specific data for:

- roof waterproofing systems with reinforced bitumen flexible sheets for roof waterproofing according to EN 13707;
- or
- roof waterproofing systems with plastic and rubber flexible sheets for roof waterproofing according to EN 13956.

### 5.2 Types of EPD with respect to life cycle stages covered

In addition to EN 15804:2012+A2:2019, the following shall apply.

The LCA based information in an EPD shall cover (see EN 15804:2012+A2:2019, Figure 1) the life cycle of a product according to the system boundary (see 6.3.5). In this case, the EPD covers the product stage, the end-of-life stage and benefits and loads beyond the system boundary and can cover construction process stage and use stage.

### 5.3 Comparability of EPD for construction products

EN 15804:2012+A2:2019 shall apply.

### 5.4 Additional environmental information

EN 15804:2012+A2:2019 shall apply.

**prEN 17388-2:2022 (E)****5.5 Ownership, responsibility and liability for the EPD**

EN 15804:2012+A2:2019 shall apply.

**5.6 Communication formats**

EN 15804:2012+A2:2019 shall apply.

**6 Product category rules for life cycle assessment (LCA)****6.1 Product category**

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

**6.2 Life cycle stages and information modules to be included****6.2.1 General**

The life cycle stages: product stage, end-of-life stage and benefits and loads beyond construction works life cycle shall be reported.

The life cycle stages: construction process stage and use stage can be reported.

**6.2.2 A1-A3, product stage, information modules**

EN 15804:2012+A2:2019 shall apply.

**6.2.3 A4-A5, construction process stage, information modules (optional)**

EN 15804:2012+A2:2019 shall apply.

**6.2.4 B1-B5, use stage, information modules related to the building fabric (optional)**

EN 15804:2012+A2:2019 shall apply.

**6.2.5 B6-B7, use stage, information modules related to the operation of the building (optional)**

In addition to EN 15804:2012+A2:2019, the following rules shall apply:

Modules B6-B7 (use stage, information modules related to the operation of the building) have no influence on the roof waterproofing systems. The value of “zero” is plausible for these indicators.

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

EN 15804:2012+A2:2019 shall apply.

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

EN 15804:2012+A2:2019 shall apply.

**6.3 Calculation rules for the LCA****6.3.1 Functional or declared unit**

A construction product may have a number of possible functions. Based on the goal and the scope of an EPD, the EPD may relate to a specific function and scenario using a functional unit or it may cover a range of functionalities and scenarios using a declared unit.

### 6.3.2 Functional unit

The functional unit defines the way in which the identified functions or performances characteristics of the product are quantified. This allows comparison with other product systems which have been assessed to fulfil the same functional unit.

This document is valid for all roof waterproofing systems with flexible sheets. The functional unit is 1 m<sup>2</sup> roof waterproofing system.

The reference service life of the roof waterproofing system shall be defined and declared according to 6.3.4.

The thickness or mass per m<sup>2</sup> of the sheets shall be expressed according to the applicable product standard.

### 6.3.3 Declared unit

The declared unit for roof waterproofing sheets is 1 m<sup>2</sup>.

### 6.3.4 Reference service life (RSL)

In addition to EN 15804:2012+A2:2019, the following rules shall apply:

- The reference service life (RSL) refers to the watertight function of the roof waterproofing system installed on a building.
- The RSL of the roof waterproofing system with a reference to the source shall be stated in the EPD.

### 6.3.5 System boundaries

#### 6.3.5.1 General

EN 15804:2012+A2:2019 shall apply.

#### 6.3.5.2 Product stage

EN 15804:2012+A2:2019 shall apply.

#### 6.3.5.3 Construction stage

In addition to EN 15804:2012+A2:2019, the following rules shall apply:

Module A5 (Installation process)

The following information modules shall be included:

- description of the installation of the layers of the roof waterproofing system (types of roof waterproofing layers/sheets);
- material consumption, including joints and installation waste as defined in 6.3.9.4;
- jointing technique as defined in 6.3.9.4;
- energy consumption for installation (e.g. gas propane, electricity) as defined in 6.3.9.4;
- types and amounts of bonding/fastening materials when applicable as defined in 6.3.9.4;
- wastage of construction products, and if relevant additional production processes to compensate for the loss of wastage of products and waste processing of all the waste from installation phase (e.g. packaging, membranes/cutting waste);