

Flexible sheets for waterproofing - Environmental product declarations - Product category rules for reinforced bitumen, plastic and rubber flexible sheets for roof waterproofing - Part 1: Cradle to grave and module D

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 17388-1:2024 sisaldab Euroopa standardi EN 17388-1:2024 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 02.10.2024.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 17388-1:2024 consists of the English text of the European standard EN 17388-1:2024.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 02.10.2024.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
--	---

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 91.100.50

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardimis- ja Akrediteerimiskeskusele. Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardimis- ja Akrediteerimiskeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardimis- ja Akrediteerimiskeskusega: Koduleht www.evs.ee; telefon 605 5050; e-post info@evs.ee

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation and Accreditation. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation and Accreditation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation and Accreditation: Homepage www.evs.ee; phone +372 605 5050; e-mail info@evs.ee

ICS 91.100.50

English Version

Flexible sheets for waterproofing - Environmental product declarations - Product category rules for reinforced bitumen, plastic and rubber flexible sheets for roof waterproofing - Part 1: Cradle to grave and module D

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 et module D

Abdichtungsbahnen - Umweltproduktdeklarationen - Produktkategorieregeln für Bitumenbahnen mit Trägereinlage, Kunststoff- und Elastomerbahnen für Dachabdichtungen - Teil 1: Wiege bis Bahre und Modul D

This European Standard was approved by CEN on 19 August 2024.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 Abbreviations	8
5 General aspects	8
5.1 Objective of the PCR	8
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 environmental 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 or declared unit	9
6.3.2 Functional unit	9
6.3.3 Declared unit	10
6.3.4 Reference service life (RSL)	10
6.3.5 System boundaries	10
6.3.6 Criteria for the exclusion of inputs and outputs (cut-off criteria)	11
6.3.7 Selection of data	11
6.3.8 Data quality requirements	12
6.3.9 Developing product level scenarios	13
6.3.10 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
6.4.4 Information on biogenic carbon content	17
6.5 Impact assessment	17
7 Content of the EPD	17
7.1 Declaration of general information	17
7.2 Declaration of environmental indicators derived from LCA	18
7.2.1 General	18

7.2.2	Rules for declaring LCA information per module	18
7.2.3	Indicators describing environmental impacts based on life cycle impact assessment (LCIA)	18
7.2.4	Indicators describing resource use and environmental information based on life cycle inventory (LCI)	18
7.2.5	Information on biogenic carbon content	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	19
7.4.1	Indoor air	19
7.4.2	Soil and water	19
7.5	Aggregation of information modules	19
8	Project report	19
8.1	General	19
8.2	LCA-related elements of the project report	19
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 to 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	23
A.3	Rules for reinforced bitumen sheets according to EN 13707	24
A.4	Rules for rubber sheets according to EN 13956	24
Annex B (informative)	EPD scope and practice	25
B.1	Introduction	25
B.2	Specific EPD	25
B.3	Generic EPD	25
B.3.1	Average EPD	25
B.3.2	Worst case EPD	25
B.3.3	Sector EPD	25
Bibliography	26

European foreword

This document (EN 17388-1:2024) has been prepared by Technical Committee CEN/TC 254 “Flexible sheets for waterproofing”, the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2025, and conflicting national standards shall be withdrawn at the latest by April 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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 two parts:

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

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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.

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

NOTE 2 For further information, see Annex B.

This document is a preview generated by EVS

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 grave and module D EPD using:

- either generic data and system generic data;
- or
- specific data and system 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;
- define generic data and system generic data which are to be used for an EPD.

2 Normative references

The following documents 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+A2:2019¹, *Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products*

¹ As impacted by EN 15804:2012+A2:2019/AC:2021.