TSEMENT JA EHITUSLUBI. TOOTE KESKKONNADEKLARATSIOONID. STANDARDIT EN 15804 TÄIENDAVAD TOOTEKATEGOORIA REEGLID

Cement and building lime - Environmental product declarations - Product category rules complementary to EN 15804

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 16908:2017+A1:2022 sisaldab Euroopa standardi EN 16908:2017+A1:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 16908:2017+A1:2022 consists of the English text of the European standard EN 16908:2017+A1:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 30.03.2022.	Date of Availability of the European standard is 30.03.2022.
Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.

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

ICS 91.010.99, 91.100.10

EUROPEAN STANDARD

NORME EUROPÉENNE

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EN 16908:2017+A1

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English Version

Cement and building lime - Environmental product declarations - Product category rules complementary to EN 15804

Ciment et chaux de constructions - Déclaration environnementales sur les produits - Règles de catégorie de produits complémentaires de l'EN 15804

Zement und Baukalk - Umweltproduktdeklarationen - Produktkategorieregeln in Ergänzung zu EN 15804

This European Standard was approved by CEN on 21 November 2016 and includes Amendment 1 approved by CEN on 10 January 2022.

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European foreword

This document (EN 16908:2017+A1:2022) has been prepared by Technical Committee CEN/TC 51 “Cement and building limes”, the secretariat of which is held by NBN.

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of an identical text or by endorsement, at the latest by September 2022, and conflicting national standards shall be withdrawn at the latest by September 2022.

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.

This document includes Amendment 1 approved by CEN on 10 January 2022.

This document supersedes [A1] EN 16908:2017 [A1].

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A1] [A1].

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association.

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.

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Introduction

How to use this document

This document provides product category rules (PCR) for Type III environmental declarations (EPDs) according to [A1] EN 15804:2012+A2:2019 [A1] for cement and building lime, in particular to products according to the standards developed in CEN/TC 51 "Cement and building limes".

The European Standard [A1] EN 15804:2012+A2:2019 [A1], "Core rules for the product category of construction products", is intended as the core PCR to be followed. This PCR document supplements [A1] EN 15804:2012+A2:2019 [A1] by giving more detail for specific items relevant to cement and building lime. In all cases where no specific rules are given in this document, [A1] EN 15804:2012+A2:2019 [A1] should be followed. Therefore, this document should be read in parallel with [A1] EN 15804:2012+A2:2019 [A1]. [A1] EN 15804:2012+A2:2019 [A1] is normatively referenced in this document and is indispensable for its application.

The structure of this document follows that of [A1] EN 15804:2012+A2:2019 [A1], with all headings and section numbers kept the same. Where a section of [A1] EN 15804:2012+A2:2019 [A1] applies without modification, this is indicated. Where a section of [A1] EN 15804:2012+A2:2019 [A1] is not relevant for EPDs covered by this PCR, this is also indicated.

The purpose of an EPD is given in the Introduction to [A1] EN 15804:2012+A2:2019 [A1].

Definition of the covered products

Cement

Cement is defined in standards published by CEN/TC 51 as "a hydraulic binder, i.e. a finely ground inorganic material which, when mixed with water, forms a paste which sets and hardens by means of hydration reactions and processes and which, after hardening, retains its strength and stability even under water".

Building Lime

Building lime is defined in EN 459-1 as a "group of lime products, exclusively consisting of two families: air lime and lime with hydraulic properties, used in applications or materials for construction, building and civil engineering." Air lime refers to the product which combines and hardens with carbon dioxide present in air.

Air lime refers to the product which combines and hardens with carbon dioxide present in air. Air lime has no hydraulic properties. Air lime is divided into two sub-families, calcium lime (CL) and dolomitic lime (DL). Calcium lime is an air lime consisting mainly of calcium oxide (quicklime) and/or calcium hydroxide (hydrated lime). Dolomitic lime is an air lime consisting mainly of calcium magnesium oxide and/or calcium magnesium hydroxide.

Lime with hydraulic properties is a building lime consisting mainly of calcium hydroxide, calcium silicates and calcium aluminates. It has the property of setting and hardening when mixed with water and/or under water. Reaction with atmospheric carbon dioxide is part of the hardening process. Lime with hydraulic properties is divided into three subfamilies, natural hydraulic lime (NHL), formulated lime (FL) and hydraulic lime (HL).

1 Scope

The general scope of the core product category rules (PCR) is given in [A1] EN 15804:2012+A2:2019 [A1], Clause 1.

This PCR is primarily intended for the creation of cradle-to-gate EPDs of cement and building lime.

In other respects, the scope is as in [A1] EN 15804:2012+A2:2019 [A1].

2 Normative references

[A1] 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 15804:2012+A2:2019, *Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products* [A1]

3 Terms and definitions

For the purposes of this document, the terms and definitions given in [A1] EN 15804:2012+A2:2019 [A1] apply.

4 Abbreviations

As in [A1] EN 15804:2012+A2:2019 [A1].

5 General aspects

5.1 Objective of the Core PCR

As in [A1] EN 15804:2012+A2:2019 [A1].

5.2 Types of EPD with respect to life cycle stages covered

As in [A1] EN 15804:2012+A2:2019 [A1].

[A1] Cement and building lime are physically integrated with other products (e.g. aggregates, chemical admixtures) into downstream products (e.g. concrete, mortar, plaster). During their hydration, cement and building lime undergo a chemical transformation. After their hydration, the original products in the un-hydrated state are not identifiable anymore and cannot be physically separated.

None of the constituents of cement and building lime contain biogenic carbon.

Cement and building lime therefore fulfil the three conditions:

— the product or material is physically integrated with other products during installation so they cannot be physically separated from them at end of life, and

— the product or material is no longer identifiable at end of life as a result of a physical or chemical transformation process, and

— the product or material does not contain biogenic carbon and are therefore exempt from the obligation to declare modules C1–C4 and D. [A1]