

EHITUSLUBI. OSA 2: KATSEMEETODID

Building lime - Part 2: Test methods

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 459-2:2021 sisaldab Euroopa standardi EN 459-2:2021 ingliskeelset teksti.	This Estonian standard EVS-EN 459-2:2021 consists of the English text of the European standard EN 459-2:2021.
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English Version

Building lime - Part 2: Test methods

Chaux de Construction - Partie 2: Méthodes d'essais

Baukalk - Teil 2: Prüfverfahren

This European Standard was approved by CEN on 8 February 2021.

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European foreword

This document (EN 459-2:2021) 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of an identical text or by endorsement, at the latest by January 2022, and conflicting national standards shall be withdrawn at the latest by January 2022.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 supersedes EN 459-2:2010.

In comparison with EN 459-2:2010, the following modifications have been made:

- description of fusion with lithium tetraborate;
- a new Clause 5.1 included;
- amendments for the determinations of CaO and MgO;
- change of the order of methods for determination of CO₂;
- Phenolphthalein as indicator replaced by thymolphthalein;
- Amendments for the determination of available lime;
- amendments of the methods for particle size determination;
- amendment for the description of bulk density;
- amendments for the determination of reactivity;
- amendments for the Table B.1 and Table B.2 in Annex B;
- editorial changes were made and minor mistakes corrected.

EN 459, *Building lime*, is currently composed of the following parts:

- *Part 1: Definitions, specifications and conformity criteria;*
- *Part 2: Test methods;*
- *Part 3: Conformity evaluation.*

The existing standards from the EN 196 series were used as a basis for the testing of physical and mechanical properties in EN 459-2. For the testing of chemical properties of building limes, test methods described in EN 12485 have been incorporated into this document.

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, Turkey and the United Kingdom.

Introduction

The objective in this document has been to adopt as many European standardized methods as possible, and where this has not been possible, to use other appropriate proven methods.

Unless otherwise stated, tolerance class m of ISO 2768-1 apply (Indications on drawings by "ISO 2768-1").

All dimensions are in millimetres.

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1 Scope

This document specifies the test methods for all building limes covered by EN 459-1. They can also be applied to other lime materials, the standards for which call up these methods.

This document specifies in Table 2 the methods used for the chemical analyses and the determination of physical properties of building limes.

This document specifies the reference methods and, in certain cases, an alternative method which can be considered to be equivalent. In the case of a dispute, only the reference methods are used.

Any other methods may be used provided they are calibrated, either against the reference methods or against internationally accepted reference materials, in order to demonstrate their equivalence.

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 196-1:2016, *Methods of testing cement - Part 1: Determination of strength*

EN 196-3, *Methods of testing cement - Part 3: Determination of setting times and soundness*

EN 196-7, *Methods of testing cement - Part 7: Methods of taking and preparing samples of cement*

EN 459-1, *Building lime - Part 1: Definitions, specifications and conformity criteria*

EN 932-1, *Tests for general properties of aggregates - Part 1: Methods for sampling*

EN ISO 6506-1, *Metallic materials - Brinell hardness test - Part 1: Test method (ISO 6506-1)*

3 Terms and definitions

No terms and definitions are listed in this document.

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>

4 Sampling

4.1 General

Sampling shall be carried out as specified in 4.2 to 4.4 taking into account the need to minimize moisture and carbon dioxide absorption. Samples shall therefore be transported and stored in air-tight containers and all the handling shall be carried out as quickly as possible.

4.2 Sampling of powdered material

Sampling shall be carried out in accordance with EN 196-7.