SLOVENSKI STANDARD
SIST EN 459-3:2015

01-julij-2015

Nadomešča:
SIST EN 459-3:2011

Gradbeno apno - 3. del: Ovrednotenje skladnosti

Building lime - Part 3: Conformity evaluation

Baukalk - Teil 3: Konformitätsbewertung

Chaux de construction - Partie 3 : Évaluation de la conformité

Ta slovenski standard je istoveten z: EN 459-3:2015

ICS:

91.100.10	Cement. Mavec. Apno. Malta	Cement. Gypsum. Lime. Mortar

SIST EN 459-3:2015 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 459-3

April 2015

ICS 91.100.10

Supersedes EN 459-3:2011

English Version

Building lime - Part 3: Conformity evaluation

Chaux de construction - Partie 3 : Évaluation de la conformité

Baukalk - Teil 3: Konformitätsbewertung

This European Standard was approved by CEN on 15 February 2015.

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

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Foreword

This document (EN 459-3:2015) 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of an identical text or by endorsement, at the latest by October 2015, and conflicting national standards shall be withdrawn at the latest by October 2015.

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

This document supersedes EN 459-3:2011.

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

The European Standard EN 459 for *Building lime* consists of the following parts:

— *Part 1: Definitions, specifications and conformity criteria*;

— *Part 2: Test methods*;

— *Part 3: Conformity evaluation*.

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

1 Scope

This European Standard specifies the scheme for the attestation and verification of constancy of performance (AVCP) of building limes to their corresponding product standard EN 459-1. It provides rules for surveillance, assessment and evaluation of the factory production control and rules for the frequency of inspections.

The European Standard specifies technical rules for factory production control by the manufacturer, including autocontrol testing of samples. It also provides rules for actions to be followed in the event of non-conformity and requirements for dispatching centres.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 459-1:2015, *Building lime — Part 1: Definitions, specifications and conformity criteria*

EN 459-2, *Building lime — Part 2: Test methods*

3 Terms and definitions

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

3.1
factory
facility used by a manufacturer for the production of building lime using equipment which is suitable for continuous mass production of building lime including, where relevant, equipment for adequate calcining, slaking, grinding and equipment for homogenization and the necessary capacity for the storage and dispatch of each type of building lime produced

Note 1 to entry: This equipment and the production control applied allow the control of production to ensure that the requirements of EN 459-1 are met.

3.2
factory production control
permanent internal control of building lime production exercised by the manufacturer consisting of internal quality control and autocontrol testing

3.3
work's quality manual
document(s) providing information on the factory production control applied by a manufacturer at a particular factory to ensure compliance of the building lime with the requirements of EN 459-1

3.4
depot
building lime handling facility (not located at the factory) used for the dispatch of building lime (whether in bulk or bagged) after transfer or storage where the manufacturer has full responsibility for all aspects of the quality of the building lime

3.5
dispatching centre
building lime handling facility (not located at the factory) used for the dispatch of building lime (whether in bulk or bagged) after transfer or storage where a distributor has full responsibility for all aspects of the quality of the building lime

3.6
distributor
natural or legal person who takes from the manufacturer bulk building lime declared according to this European Standard and bearing the conformity marking, who undertakes full responsibility for maintaining in a bulk handling facility all aspects of the quality of the building lime and who supplies the building lime onwards to a further person

3.7
confirmation autocontrol testing
continual testing carried out by a distributor which consists of the testing of samples taken by the distributor at the point(s) of release from the dispatching centre

4 Factory production control by the manufacturer

4.1 General requirements

4.1.1 Definition and concept

Factory production control means the permanent internal control of building lime production exercised by the manufacturer and consists of internal quality control and autocontrol testing of samples of building lime taken at the point of release (see 4.3).

The details of the factory production control are described in the work's quality manual (see 4.1.2).

4.1.2 Work's quality manual

The manufacturer's documentation and procedures for factory production control shall be described in a work's quality manual, which shall adequately describe, among others:

a) the quality aims, organization structure, responsibilities and powers of the management with regard to product quality, the means to monitor the achievement of the required product quality and the effective operation of the factory production control (see 4.1.3);

b) the manufacturing and quality control techniques, processes and systematic actions that will be used (see 4.2.1 and 4.2.3);

c) the inspections and tests that will be carried out before, during and after manufacture, and the frequency with which they will be carried out (see 4.2.2).

The work's quality manual prepared by the manufacturer for each factory shall include an adequate system of documentation (see 4.1.4).

The work's quality manual shall address and document the procedures operated to ensure that the manufactured building lime conforms to the technical specifications. It may be referred to associated documents which provide further details of the autocontrol testing of samples and the internal quality control.

NOTE Manufacturers having an FPC system, which complies with EN ISO 9001 standard and which addresses the provisions of the present European standard are considered as satisfying the FPC requirements of the Regulation (EU) No 305/2011.

4.1.3 Management system

4.1.3.1 Quality policy

The work's quality manual shall include a statement by management defining its quality policy, objectives and commitments to the attainment of product quality.

4.1.3.2 Management representative

The manufacturer shall appoint a management representative who, irrespective of other responsibilities, shall have defined authority and responsibility for ensuring that the requirements of this European Standard for the evaluation of conformity are implemented and maintained.

4.1.3.3 Internal audits and management review

In order to ensure the continuing suitability and effectiveness of the work's quality manual to meet the requirements of this European Standard, the manufacturer shall perform at least once per year:

a) internal audits covering the scope of this Clause 4 and 6.1;

b) a management review of the factory production control, taking into account records of the internal audits.

4.1.3.4 Training

The work's quality manual shall describe the measures taken to ensure that all the personnel involved in operations that can affect internal quality control and product quality have appropriate experience or training. Appropriate records shall be retained.

4.1.4 System of documentation

4.1.4.1 Document control

The management representative shall be responsible for the control of all documents and data related to factory production control and to this scheme for the evaluation of conformity.

This control shall ensure that the appropriate issues of all documents are available at essential locations, that obsolete documents are withdrawn and that changes or modifications to any document are effectively introduced.

The producer shall have a system to identify the current versions of documents in order to prevent the use of non-applicable documents.

4.1.4.2 Quality records

The manufacturer shall retain records of factory production control for at least the period required to comply with relevant legislation.

4.2 Internal quality control

4.2.1 Process control

4.2.1.1 General

The work's quality manual shall describe the parameters for process planning, process control and testing, inspection, corrective action, verification, dispatch and the associated records.

4.2.1.2 Composition of calcium lime, dolomitic lime, natural hydraulic lime and hydraulic lime

The work's quality manual shall describe the methods used by the manufacturer to ensure that the composition of the building lime produced conforms to EN 459-1 including appropriate test methods.

4.2.1.3 Constituents and composition of formulated lime

The manufacturer shall establish documented procedures and select appropriate test methods to ensure that the constituents meet the requirements of the relevant product specification standard and are suitable to enable formulated lime to be produced meeting the requirements of EN 459-1.

The work's quality manual shall describe the methods used by the manufacturer to ensure that the composition of the formulated lime produced conforms to EN 459-1 including appropriate test methods.

4.2.1.4 Control of off-specification production

The work's quality manual shall contain procedures to ensure that off specification production is adequately managed.

4.2.2 Measuring and testing

4.2.2.1 Inspection, measuring and test equipment

The equipment for in-process inspection and testing shall be regularly checked and calibrated in accordance with the procedures and frequencies laid down in the work's quality manual.

4.2.2.2 Inspection and test status

Procedures for the inspection and test status through the stages of manufacture shall be detailed in the work's quality manual. These shall include procedures for the control of off specification intermediate materials.

4.2.3 Handling, storage, packaging and delivery

The work's quality documentation shall describe the precautions taken for the protection of the quality of the building lime while under the responsibility of the manufacturer. It shall include a description of the procedures used at depots. Delivery documentation shall allow traceability to the producing works.

4.3 Autocontrol testing of samples

4.3.1 Sampling and testing

The manufacturer shall operate a system of autocontrol testing for each building lime. This system shall be used to demonstrate compliance to the requirements in the subclauses entitled "Compliance criteria" in EN 459-1:2015. The properties to be tested, test methods and the minimum testing frequencies of autocontrol during routine testing and product type determination and the compliance criteria shall be in accordance with the basic requirements given in EN 459-1:2015, 4.4.8, 4.5.8 and 5.6.

For building lime not being dispatched continuously, the frequency of testing and the point of sampling shall be as specified in the work's quality manual.

All test data shall be documented.

4.3.2 Evaluation of results of autocontrol testing of samples

4.3.2.1 General

As a rule, the manufacturer shall carry out a non-statistical evaluation, as specified in 4.3.2.2. Where the frequency of testing applied by the manufacturer is so that at least 20 autocontrol test results are obtained within a control period, the manufacturer may carry out a statistical evaluation, as specified in 4.3.2.3.