



SLOVENSKI STANDARD

SIST EN 459-3:2002

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Gradbeno apno – 3. del: Ovrednotenje skladnosti

Building lime - Part 3: Conformity evaluation

Baukalk - Teil 3: Konformitätsbewertung

Chaux de construction - Partie 3: Evaluation de la conformité

Ta slovenski standard je istoveten z: EN 459-3:2001

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ICS:

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

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 459-3

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English version

Building lime - Part 3: Conformity evaluation

Chaux de construction - Partie 3: Evaluation de la
conformité

Baukalk - Teil 3: Konformitätsbewertung

This European Standard was approved by CEN on 16 February 2001.

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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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

| Contents | | Page |
|--|---|-------------|
| Foreword | | 3 |
| 1 Scope | | 3 |
| 2 Normative references | | 3 |
| 3 Terms and definitions | | 4 |
| 4 Factory production control by the manufacturer | | 5 |
| 4.1 General requirements | | 5 |
| 4.2 Internal quality control | | 6 |
| 4.3 Autocontrol testing of samples | | 6 |
| 4.4 Initial type testing of the building lime | | 7 |
| 5 Initial inspection of the factory and the factory production control | | 8 |
| 5.1 Inspection | | 8 |
| 5.2 Assessment of the production equipment | | 8 |
| 5.3 Assessment of laboratories | | 8 |
| 5.4 Reports | | 8 |
| 6 Declaration of conformity | | 8 |
| 7 Conformity mark | | 9 |
| 8 Action to be taken by the manufacturer in the event of non-conformity | | 9 |
| 9 Requirements for dispatching centres | | 9 |
| 9.1 General | | 9 |
| 9.2 Tasks for the intermediary | | 9 |
| Bibliography | https://standards.iteh.ai/catalog/standards/sist/be438c5f-7635-4ca2-973c-cdca00f187ca/sist-en-459-3-2002 | 11 |

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 51 "Cement and building of limes", the secretariat which is held by IBN.

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 2002, and conflicting national standards shall be withdrawn at the latest by April 2002

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies the scheme for the evaluation of conformity of building lime to their corresponding product standard EN 459-1:2001 including declaration of conformity by the manufacturer.

The European Standard provides 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, the procedure for the declaration and requirements for dispatching centres.

2 Normative references standards.iteh.ai

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 459-1:2001, *Building lime - Part 1: Definitions, specifications and conformity criteria*.

EN 459-2:2001, *Building lime - Part 2: Test methods*.

3 Terms and definitions

For the purposes of this European Standard the following terms and definitions apply.

3.1 declaration of conformity

document issued by the manufacturer under the rules of this scheme for the evaluation of conformity indicating that adequate confidence is provided that building lime is in conformity with EN 459-1:2001

3.2 conformity marking

protected marking applied on the basis of the declaration of conformity (see 3.1)

3.3 declared building lime

building lime for which a declaration of conformity (see 3.1) has been issued

EN 459-3:2001 (E)**3.4****factory**

facility used by a manufacturer for the production of building lime allowing control of production with sufficient accuracy to ensure that the requirements of EN 459-1:2001 are met

3.5**depot**

bulk 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

3.6**dispatching centre**

bulk building lime handling facility (not located at the factory) used for the dispatch of building lime after transfer or storage where an intermediary has full responsibility for all aspects of the quality of the building lime

3.7**intermediary**

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

3.8**confirmation autocontrol testing**

continual testing carried out by an intermediary which consists of testing of samples taken by the intermediary at the point(s) of release from the dispatching centre

3.9**works' quality documentation**

document(s) providing information on the factory production control applied by a manufacturer at a particular factory to ensure conformity of the building lime with the requirements of EN 459-1:2001

3.10**factory production control**

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

3.11**certification body**

impartial body, governmental or non-governmental, possessing the necessary competence and responsibility to carry out conformity certification according to given rules of procedure and management.

3.12**inspection body**

impartial body having the organization, staffing, competence and integrity to perform according to specified criteria functions such as assessing, recommending for acceptance and subsequent audit of manufacturers quality control operations, and selection and evaluation of products on site or in factories or elsewhere, according to specific criteria

3.13**testing laboratory**

laboratory which measures, examines, tests, calibrates or otherwise determines the characteristics or performance of materials or products

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.

The details of the factory production control are described in the Works' quality documentation (see 4.1.2).

4.1.2 Works' quality documentation

The manufacturers documentation (see 4.1.4) shall describe the factory production control and the following:

- a) The quality aims, organisation 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 examinations 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).

NOTE Manufacturers having a factory production control system which complies with EN ISO 9001/9002 fulfil the requirements in clause 4 and the system is documented in their works quality manual.

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The works' quality documentation 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.

4.1.3 Management system

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4.1.3.1 Quality policy

The works' quality documentation shall include a statement by management defining its 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 scheme for the evaluation of conformity are implemented and maintained.

4.1.3.3 Management review

The manufacturer shall review the factory production control at appropriate intervals as specified in the works' quality documentation at least once every two years in order to ensure its continuing suitability and effectiveness to meet the requirements of this scheme for the evaluation of conformity.

4.1.3.4 Training

The Works' quality documentation shall describe the measures taken to ensure that all the personnel involved in operations that can affect factory production control and product quality have appropriate experience or training. Appropriate records shall be retained.

EN 459-3:2001 (E)**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 current issues of appropriate documents are available at essential locations.

A master list shall be established to identify the current revision of documents in order to prevent the use of obsolete documents.

4.1.4.2 Quality records

The manufacturer shall retain quality records for at least the period required to comply with relevant legislation.

4.2 Internal quality control**4.2.1 Process control**

The works' quality documentation shall

- a) describe the parameters for production process, testing, verification, inspection, corrective action, dispatch and the associated records;
- b) describe the methods used by the manufacturer to ensure that the building lime produced conforms to EN 459-1:2001;
- c) contain procedures to ensure that off-specification production is adequately managed.

4.2.2 Measuring and testing**4.2.2.1 Measuring and test equipment**

The equipment for measurement and testing shall be regularly checked and calibrated in accordance with the procedures and frequencies laid down in the works' quality documentation.

4.2.2.2 Inspection and test status

Procedures for the inspection and test status of the final product and if necessary for stages of manufacture shall be detailed in the works' quality documentation.

4.2.3 Handling, storage, packaging and delivery

The works' quality documentation shall describe the precautions taken for the protection of the quality of the building lime while under the responsibility of the manufacturer. 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. This shall be used to demonstrate conformity with conformity criteria in clause 5 of EN 459-1:2001. The properties, test methods and the minimum testing frequencies for the autocontrol testing are specified in Table 6 of EN 459-1:2001.

For specific conditions of storage and dispatch adequate frequency of testing different to those specified in Table 6 of EN 459-1:2001 and the point of sampling shall be specified in the works' quality documentation.

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.

4.3.2.2 Non-statistical evaluation

The manufacturer shall check that all individual autocontrol test results meet the requirements given in Table 2, 3, 4 and 5 of EN 459-1:2001.

4.3.2.3 Statistical evaluation

4.3.2.3.1 Against statistical conformity criteria

The manufacturer shall check that the test results of the autocontrol testing conform to B.2 of EN 459-1:2001. The frequency of statistical evaluation, by the manufacturer, of the data of the control period shall be at least once a year.

4.3.2.3.2 Against single result conformity criteria

Evaluation shall be made on the basis of individual autocontrol test results against the limit values given in B.3 of EN 459-1:2001.

4.3.3 Corrective action

The works' quality documentation shall describe procedures for the handling of non-conforming products. The actions taken shall be recorded.

In the event of a test result not conforming to clause 5 of EN 459-1:2001, the manufacturer shall immediately determine the affected quantity, take appropriate action to prevent the dispatch of this quantity and inform the affected customer if such building lime has been released. In addition the manufacturer shall determine the causes of such non-conformity, take corrective action and undertake a management review of all factory production control procedures. All such actions and findings shall be recorded.

4.3.4 Measuring and test equipment for autocontrol testing

The equipment used for autocontrol testing shall be regularly checked and calibrated in accordance with procedures and frequencies laid down in the works' quality documentation. These procedures may include comparison of test results with other laboratories.

4.3.5 Quality records

The manufacturer shall retain records of the autocontrol test results and appropriate records on test equipment for at least the period required to comply with relevant legislation on product liability.

4.4 Initial type testing of the building lime

The initial type testing of the building lime shall be based on the autocontrol test results and the test results obtained during the initial period of, normally, three months.

Sampling and testing shall be carried out as specified in Table 6 of EN 459-1:2001.

The results from the initial type testing shall be assessed and documented.