

SLOVENSKI STANDARD SIST EN 1468:2012

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Nadomešča:

SIST EN 1468:2004

Naravni kamen - Surove plošče - Zahteve

Natural stones - Rough slabs - Requirements

Natursteine - Rohplatten - Anforderungen

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Pierres naturelles - Tranches brutes - Exigences
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EUROPEAN STANDARD

EN 1468

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 1468:2003

English Version

Natural stone - Rough slabs - Requirements

Pierres naturelles - Tranches brutes - Exigences

Naturstein - Rohplatten - Anforderungen

This European Standard was approved by CEN on 9 March 2012.

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, Romania, Slovakia, Slovania, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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

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Foreword

This document (EN 1468:2012) has been prepared by Technical Committee CEN/TC 246 "Natural stones", the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by October 2012, and conflicting national standards shall be withdrawn at the latest by October 2012.

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 1468:2003.

This European Standard is one of a series of standards for requirements of natural stone products which includes the following:

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- EN 1467, Natural stone Rough blocks Requirements
- EN 1468, Natural stone Rough slabs Requirements
- iTeh STANDARD PREVIEW
 EN 1469, Natural stone products Slabs for cladding Requirements
- EN 12057, Natural stone products Modular tiles Requirements
- EN 12058, Natural stone products Slabs for floors and stairs Requirements
- EN 12059, Natural stone products Dimensional stone work Requirements

Other standards on natural stone are produced by

- a) CEN/TC 178
 - 1) EN 1341, Slabs of natural stone for external paving Requirements and test methods
 - 2) EN 1342, Setts of natural stone for external paving Requirements and test methods
 - 3) EN 1343, Kerbs of natural stone for external paving Requirements and test methods
- b) CEN/TC 128
 - 1) EN 12326-1, Slate and stone products for discontinuous roofing and cladding Part 1: Product specification
 - 2) EN 12326-2, Slate and stone products for discontinuous roofing and cladding Part 2: Methods of test for slate and carbonate slate
- c) CEN/TC 125
 - 1) EN 771-6, Specification for masonry units Part 6: Natural stone masonry units

Other standards are relevant to stone aggregates for concrete, roads, railways and armourstone.

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, 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.

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1 Scope

This European Standard specifies requirements for rough slabs of natural stone from which products for use in buildings or commemorative stones and other similar applications are made.

It does not cover artificially agglomerated stony material nor installation.

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 1936, Natural stone test methods - Determination of real density and apparent density, and of total and open porosity

EN 12372, Natural stone test methods — Determination of flexural strength under concentrated load

EN 12407, Natural stone test methods — Petrographic examination

EN 12440, Natural stone — Denomination criteria

EN 12670:2001, Natural stone — Terminology

EN 13161, Natural stone test methods — Determination of flexural strength under constant moment

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EN 13373, Natural stone test methods — Determination of geometric characteristics on units

NOTE Besides the European Standards for test methods mentioned in this clause there exist further standards which can be used for scientific examinations, but which are not relevant for the application in practice according to this European Standard.

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3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12670:2001 and the following apply.

3.1

commercial size of a rough slab

size obtained by reducing net length and net width by 0,03 m

3.2

dimensions of a rough slab

length, width (height) and thickness of a rough slab

Note 1 to entry: Dimensions are given in metres to two decimals places for length and width, and in millimetres for thickness.

3.3

gross size of a rough slab

size corresponding to the minimum circumscribed rectangle

3.4

net size of a rough slab

size corresponding to the greatest inscribed rectangle

3.5

rough slabs

flat surface semi-finished product with unfinished edges obtained by sawing or splitting from a rough block

4 Requirements

4.1 Requirements for geometric characteristics

4.1.1 Measurement criteria

All measurements shall be carried out in accordance with EN 13373 and indicated in metres to two decimals places.

4.1.2 Requirements for thickness

The thickness shall not deviate from the nominal thickness by more than the tolerances given in Table 1.

Table 1 — Tolerances of the nominal thickness

Nominal thickness	Tolerance
mm	
up to 15	± 1,5 mm
more than 15 A A D up to and including 30	ARD PREVIEW ± 10 % rds iteh ai)
more than 30 up to and including 80	± 3 mm
more than 80 dards. iteh. ai/catalog/si	andards/sist/a5a2569190528-4f03-a3ac

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Stricter tolerances may be declared by the manufacturer.

For natural stone cleft/riven faces, the tolerances on thickness shall be declared by the manufacturer.

4.1.3 Requirements for flatness

The deviation of the surface from flatness shall not exceed 0,2 % of the slab length and shall not exceed 3 mm. For split rough slabs, the tolerance on flatness shall be declared by the manufacturer.

Stricter tolerances may also be declared by the manufacturer.

4.1.4 Requirements for surface finish

4.1.4.1 General

Surface finishes shall be carried out at least to the edges of the commercial size of rough slabs.

The surface finishing of some types of stones may typically involve the use of patching, fillers or other similar products for natural holes, faults or cracks, and this is to be considered as part of the normal processing.

In such cases, the type of treatment, as well as the type and nature of additional materials, shall be declared.

The surface profile obtained by splitting shall be within declared tolerances.

4.1.4.2 Requirements for surfaces obtained by sawing

Grooves caused by sawing operations shall not have a depth greater than 2 mm. If the rough slab is to be polished, the grooves' depth shall not be greater than 1 mm.

Deviation from flatness shall be in accordance with 4.1.3.

4.1.4.3 Requirements for surfaces after surface finishing

Surfaces shall have a regular appearance as a function of the finishing process, and shall be worked to meet the specified finish (e.g. making reference to samples, see 4.2.2) on all exposed surfaces.

NOTE 1 Surfaces obtained by means of hammer type tools are, for example:

- bush hammered surfaces (see EN 12670:2001, Definition 2.3.8 ¹⁾);
- trimmed surfaces: finish obtained by using a pointed chisel and mallet or a grooving machine;
- striated surfaces: finish obtained by using a claw chisel (percussion tool for roughening a surface, with the cutting end covered by several teeth of various sizes) or a ruling machine.

NOTE 2 Surfaces obtained by other finishing operations are, for example:

- flamed finish (see EN 12670:2001, Definition 2.3.22 ²⁾);
- sand blasted finish (see EN 12670:2001, Definition 2.3.46 3); R.F.V.F.W.
- water jet streamed finish: a mate textured surface finish, accomplished by exposing the surface to a steady jet of water under pressure;
- machine tooled finish (see EN 12670:2001, Definition 2.3.54.4)):
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- riven cut finish: rugged surface produced by splitting stone with a guillotine or chisel.

4.2 Requirements of natural stones for rough slabs

4.2.1 General

The following characteristics shall be declared where requested by this European Standard, or with reference to use conditions.

The declared values shall be representative of the current production. However, due to natural variations of the stone materials, deviations from the declared values may occur. Expected deviations shall be indicated by the manufacturer.

- a) finish resulting from the mechanical surface treatment with tools;
- b) dressed finish clearly showing tool marks.

¹⁾ EN 12670:2001, Definition 2.3.8: Finish obtained by using a bush hammer (percussion tool for roughening a surface, with a square head and with few pyramidal percussion teeth or points) or a bush hammering machine (machine consisting of feed rolls and an overhanging beam, supporting a pneumatic bush hammer).

²⁾ EN 12670:2001, Definition 2.3.22: Surface texture obtained by thermal treatment of the stone using a high temperature flame.

³⁾ EN 12670:2001, Definition 2.3.46: A matt finishing resulting from the impact of the sand or other abrasive grains expelled by a sand jet.

⁴⁾ In EN 12670:2001, Definition 2.3.54, this term has two different meanings: