

საქართველოს სტანდარტი

ბუნებრივი ქვის ნაწარმი - ფილებით მოპირკეთება - მოთხოვნები

საქართველოს სტანდარტებისა და მეტროლოგიის
ეროვნული სააგენტო
თბილისი

საინფორმაციო მონაცემები

1 დამტკიცებულია და შემოღებულია სამოქმედოდ საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს 2015 წლის 2 დეკემბრის № 91 და 2015 წლის 09 ივლისის № 46 განკარგულებით

2 მიღებულია გარეკანის თარგმნის მეთოდით სტანდარტიზაციის ევროპული კომიტეტის სტანდარტი ენ 1469 : 2015 „ბუნებრივი ქვის ნაწარმი - ფილებით მოპირკეთება - მოთხოვნები“

3 პირველად

4 რეგისტრირებულია საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2015 წლის 2 დეკემბერი №268-1.3-8350

აკრძალულია ამ სტანდარტის გადაცემა მესამე პირებისათვის ან/და მისი სხვა ფორმით
გავრცელება

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1469

March 2015

ICS 91.100.15

Supersedes EN 1469:2004

English Version

Natural stone products - Slabs for cladding - Requirements

Produits en pierre naturelle - Dalles de revêtement mural -
Exigences

Natursteinprodukte - Bekleidungsplatten - Anforderungen

This European Standard was approved by CEN on 3 January 2015.

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, 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 United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

	Page
Foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Characteristics of natural stone for cladding	6
4.1 Geometrical characteristics.....	6
4.1.1 General.....	6
4.1.2 Thickness	6
4.1.3 Flatness	7
4.1.4 Length, width and squareness	7
4.1.5 Special shapes	7
4.1.6 Location of dowel holes.....	8
4.1.7 Commercial sizes of slabs for cladding	8
4.1.8 Surface finish	8
4.2 Physical and mechanical characteristics.....	9
4.2.1 General.....	9
4.2.2 Denomination	9
4.2.3 Visual appearance	9
4.2.4 Flexural strength.....	11
4.2.5 Resistance to fixings	11
4.2.6 Water absorption at atmospheric pressure	11
4.2.7 Reaction to fire	11
4.2.8 Water absorption by capillarity	11
4.2.9 Apparent density and open porosity	12
4.2.10 Durability	12
4.2.11 Water vapour permeability.....	12
4.2.12 Direct airborne sound insulation	13
4.2.13 Thermal conductivity	13
4.2.14 Release of dangerous substances.....	13
4.2.15 Bond strength/adhesion	13
5 Testing, assessment and sampling methods	13
5.1 Testing	13
5.2 Sampling	13
5.2.1 General.....	13
5.2.2 Principles of sampling	14
5.2.3 Taking bulk samples	14
5.2.4 Preparing a sampling plan.....	14
5.2.5 Sampling apparatus	14
5.2.6 Sampling methods	14
5.2.7 Marking, packaging and dispatch of the samples.....	16
5.2.8 Sampling report	16
6 Assessment and verification of constancy of performance - AVCP	17
6.1 General.....	17
6.2 Type Testing	18
6.2.1 General.....	18
6.2.2 Test samples, testing and compliance criteria.....	18
6.2.3 Test reports	19
6.2.4 Shared other party results	19

6.2.5	Cascading determination of the product type results	20
6.3	Factory production control (FPC)	21
6.3.1	General	21
6.3.2	Requirements	21
6.3.3	Product specific requirements	25
6.3.4	One-off products, pre-production products (e.g. prototypes) and products produced in very low quantity	26
6.3.5	Procedure for modifications	27
7	Marking and packaging	27
Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation		29
ZA.1	Scope and relevant characteristics	29
ZA.2	Procedure for AVCP of natural stone slabs for cladding	32
ZA.2.1	System(s) of AVCP	32
ZA.2.2	Declaration of performance (DoP)	36
ZA.2.2.1	General	36
ZA.2.2.2	Content	37
ZA.2.2.3	Example of DoP	37
ZA.2.2.3.1	Example of DoP for natural stone slabs for cladding, inside use	37
ZA.2.2.3.2	Example of DoP for natural stone slabs for cladding, outside use	39
ZA.3	CE marking and labelling	41
Bibliography		45

Foreword

This document (EN 1469:2015) 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 September 2015, and conflicting national standards shall be withdrawn at the latest by December 2016.

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 1469:2004.

EN 1469:2015 includes the following significant technical changes with respect to EN 1469:2004:

- squareness tolerances, durability, direct airborne sound insulation, thermal conductivity, release of dangerous substances added to requirements;
- sampling at the point of delivery added to the sampling;
- assessment and verification of constancy of performance added;
- Annex ZA substantially changed.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports basic requirements for construction works of Regulation (EU) No 305/2011 on Construction Products.

For relationship with the regulation, see informative Annex ZA, which is an integral part of this document.

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

- EN 1467, *Natural stone — Rough blocks — Requirements*
- EN 1468, *Natural stone — Rough slabs — Requirements*
- 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*

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.