

საქართველოს სტანდარტი

ფილები ნატურალური ქვის გარე დაგებისათვის-მოთხოვნები და გამოცდის
მეთოდები

საქართველოს სტანდარტებისა და მეტროლოგიის
ეროვნული სააგენტო
თბილისი

საინფორმაციო მონაცემები

1 დამტკიცებულია და შემოღებულია სამოქმედოდ საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს 2015 წლის 27 ოქტომბრის № 69 და 2015 წლის 09 ივლისის № 46 განკარგულებებით

2 მიღებულია გარეკანის თარგმნის მეთოდით სტანდარტიზაციის ევროპული კომიტეტის სტანდარტი ენ 1341 : 2012 „ფილები ნატურალური ქვის გარე დაგებისათვის-მოთხოვნები და გამოცდის მეთოდები“

3 პირველად

4 რეგისტრირებულია საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2015 წლის 27 ოქტომბერი №268-1.3-8051

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

English Version

Slabs of natural stone for external paving - Requirements and test methods

Dalles de pierre naturelle pour le pavage extérieur -
Exigences et méthodes d'essai

Platten aus Naturstein für Außenbereiche - Anforderungen
und Prüfverfahren

This European Standard was approved by CEN on 6 October 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, 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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Requirements and test methods for slabs of natural stone.....	7
4.1 General.....	7
4.1.1 Denomination	7
4.1.2 Alteration of physical properties of the natural stone	8
4.2 Dimensions.....	8
4.2.1 General.....	8
4.2.2 Permissible tolerances.....	8
4.3 Freeze/thaw resistance	10
4.3.1 Freeze- thaw under normal conditions.....	10
4.3.2 Freeze-thaw in the presence of de-icing salts	11
4.4 Breaking strength — Flexural strength	11
4.5 Abrasion resistance	11
4.6 Slip and skid resistance.....	11
4.6.1 Slip resistance.....	11
4.6.2 Skid resistance.....	12
4.6.3 Durability of slip and skid resistance	12
4.7 Appearance	12
4.7.1 General.....	12
4.7.2 Reference sample, visual inspection and acceptance criteria	12
4.8 Water absorption	12
4.9 Apparent density and open porosity	13
4.10 Petrographic description	13
4.11 Dangerous substances	13
5 Evaluation of conformity.....	13
5.1 General.....	13
5.2 Initial type testing (ITT) - Type Testing (TT)	13
5.3 Factory production control.....	15
6 Marking, labelling and packaging	17
Annex A (informative) Guidance on the appropriate thickness for different classes of use	19
A.1 Introduction	19
A.2 Simplified method for the calculation of slab thickness	19
A.3 Guidance on expected breaking loads.....	20
Annex B (informative) Guidance on sampling	21
B.1 General.....	21
B.2 Principles of sampling	21
B.3 Taking bulk samples	21
B.4 Preparing a sampling plan.....	21
B.5 Sampling apparatus	22
B.6 Sampling methods.....	22
B.6.1 General.....	22
B.6.2 Sampling from quarries	22
B.6.3 Sampling from production units and consignments	23
B.6.4 Sampling from construction works	23
B.7 Marking, packaging and dispatch of the samples.....	23

B.8	Sampling report	23
Annex C	(informative) Example of calculation of Lower Expected Value	25
C.1	Scope	25
C.2	Symbols and definitions	25
C.3	Calculation of Lower Expected Value	25
Annex ZA	(informative) Clauses of this European Standard addressing the provisions of the EU	
	Construction Products Directive	28
ZA.1	Scope and relevant characteristics	28
ZA.2	Procedure for the attestation of conformity of slabs of natural stone	29
ZA.2.1	System of attestation of conformity	29
ZA.2.2	EC declaration of conformity	30
ZA.3	CE marking and labelling	31
	Bibliography	34

Foreword

This document (EN 1341:2012) has been prepared by Technical Committee CEN/TC 178 "Paving units and kerbs", the secretariat of which is held by BSI.

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 May 2013, and conflicting national standards shall be withdrawn at the latest by August 2014.

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 1341:2001.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

The following changes have been made in this new edition:

- a) Where possible the requirements refer to separate test methods prepared by CEN/TC 246, "Natural stones". The change was made to allow those placing the products on the market to use the same test results for a number of products.
- b) The values to be declared have been clarified and where applicable the declared values are now 'lower expected values'.
- c) Annex A (Annex B in the 2001 version) has been extended to include safety factors specific to different uses.

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, 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.