

**Agglomerated stone - Test methods - Part 12:  
Determination of dimensional stability**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 14617-12:2012 sisaldab Euroopa standardi EN 14617-12:2012 ingliskeelset teksti.	This Estonian standard EVS-EN 14617-12:2012 consists of the English text of the European standard EN 14617-12:2012.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 11.04.2012.	Date of Availability of the European standard is 11.04.2012.
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ICS 91.100.15

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English Version

## Agglomerated stone - Test methods - Part 12: Determination of dimensional stability

Pierre agglomérée - Méthodes d'essai - Partie 12:  
Détermination de la stabilité dimensionnelle

Künstlich hergestellter Stein - Prüfverfahren - Teil 12:  
Bestimmung der Maßhaltigkeit

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

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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## Foreword

This document (EN 14617-12:2012) 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of an identical text or by endorsement, at the latest by October 2012, and conflicting national standards shall be withdrawn at the latest by October 2012.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 14617-12:2005.

Clauses 1 and 3, 4.1, 4.2, 4.3, 4.4 and Clauses 5 to 8 have been modified since the last edition of this European Standard. A new Annex A (normative) has been added, the Annex B (informative) has been modified since the last edition (Annex A) and 4.5 has been deleted.

This European Standard is one of a series of standards for test methods for agglomerated stones which includes the following:

EN 14617-1, *Agglomerated stone — Test methods — Part 1: Determination of apparent density and water absorption*

EN 14617-2, *Agglomerated stone — Test methods — Part 2: Determination of flexural strength (bending)*

EN 14617-4, *Agglomerated stone — Test methods — Part 4: Determination of the abrasion resistance*

EN 14617-5, *Agglomerated stone — Test methods — Part 5: Determination of freeze and thaw resistance*

EN 14617-6, *Agglomerated stone — Test methods — Part 6: Determination of thermal shock resistance*

EN 14617-8, *Agglomerated stone — Test methods — Part 8: Determination of resistance to fixing (dowel hole)*

EN 14617-9, *Agglomerated stone — Test methods — Part 9: Determination of impact resistance*

EN 14617-10, *Agglomerated stone — Test methods — Part 10: Determination of chemical resistance*

EN 14617-11, *Agglomerated stone — Test methods — Part 11: Determination of linear thermal expansion coefficient*

EN 14617-12, *Agglomerated stone — Test methods — Part 12: Determination of dimensional stability*

EN 14617-13, *Agglomerated stone — Test methods — Part 13: Determination of electrical resistivity*

EN 14617-15, *Agglomerated stone — Test methods — Part 15: Determination of compressive strength*

EN 14617-16, *Agglomerated stone — Test methods — Part 16: Determination of dimensions, geometric characteristics and surface quality of modular tiles*

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 the test method to be used for the determination of the dimensional stability and warping of agglomerated stones when in contact with water.

This European Standard applies to agglomerated stones to be installed by adhesive on walls and floors.

The test is mainly performed to classify the material according to the degree of sensitivity to water and to select a suitable adhesive for the correct laying of agglomerated stones.

## 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.

Not applicable.

## 3 Principle

The principle of this method consists in measuring the vertical displacement of one corner of the tile using a wet felt placed on the backside of the agglomerated stone to simulate the contact with water. A series of sensors carries out the measurement of the deformation caused by the humidity released by the cloth.

## 4 Apparatus

4.1 A suitable instrument (see Figure 1) consisting of:

4.1.1 A flat and smooth reference plane.

4.1.2 Three supports for the tile.

4.1.3 Four digital gauges with an accuracy of 0,01 mm for the normative part (see Figure 1). For the informative part see Annex B where five digital gauges are required.

4.2 A cloth or a felt.

4.3 A water spray dispenser.

4.4 A polyethylene film.