

## **Grouts for tiles - Part 4: Determination of shrinkage**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12808-4:2002 sisaldab Euroopa standardi EN 12808-4:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 19.06.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12808-4:2002 consists of the English text of the European standard EN 12808-4:2001.</p> <p>This document is endorsed on 19.06.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> This European Standard applies to all ceramic tile grouts for internal and external tile installations on walls and floors. This standard specifies the test method to be used to determine the shrinkage of ceramic tile grouts.</p>	<p><b>Scope:</b> This European Standard applies to all ceramic tile grouts for internal and external tile installations on walls and floors. This standard specifies the test method to be used to determine the shrinkage of ceramic tile grouts.</p>
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ICS 91.100.10

**Võtmesõnad:** adhesives, ceramic tiles, ceramics, determination, joint mortars, material, mortars, reaction resin mortar, shrinkage, testing, tiles

ICS 91.100.10

English version

## Grouts for tiles - Part 4: Determination of shrinkage

Mortiers de joints pour carrelages - Partie 4: Détermination  
du retraitKlebstoffe und Fugenmörtel für Fliesen und Platten - Teil 4:  
Bestimmung der Schwindung

This European Standard was approved by CEN on 3 November 2001.

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 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 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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## Contents

	page
Foreword.....	3
1 <b>Scope</b> .....	4
2 <b>Normative references</b> .....	4
3 <b>Sampling</b> .....	4
4 <b>Test conditions</b> .....	4
5 <b>Test materials</b> .....	4
6 <b>Apparatus</b> .....	4
7 <b>Procedure</b> .....	5
7.1 <b>Mixing of grouts</b> .....	5
7.2 <b>Preparation of test specimens</b> .....	5
7.3 <b>Test procedure</b> .....	5
8 <b>Evaluation of results</b> .....	5
9 <b>Test report</b> .....	5
Bibliography .....	9

## Foreword

This European Standard has been prepared by Technical Committee CEN /TC 67 "Ceramic tiles", 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 June 2002, and conflicting national standards shall be withdrawn at the latest by June 2002.

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.

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## 1 Scope

This European Standard applies to all ceramic tile grouts for internal and external tile installations on walls and floors.

This standard specifies the test method to be used to determine the shrinkage of ceramic tile grouts.

This European Standard does not contain performance requirements or recommendations for the design and installation of ceramic tiles.

NOTE Ceramic tile grouts can also be used for other types of tiles (natural and agglomerated stones, etc.), where these do not adversely affect the stones.

## 2 Normative references

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 1066, *Adhesives – Sampling*.

EN 1067, *Adhesives - Examination and preparation of samples for testing*.

EN 196-1:1994, *Methods of testing cement - Determination of strength*.

## 3 Sampling

Take a sample of at least 2 kg of the product to be tested in accordance with EN 1066 and EN 1067.

## 4 Test conditions

Standard conditions shall be  $(23 \pm 2)$  °C and  $(50 \pm 5)$  % R.H. and a circulation of air in the working area less than 0,2 m/s.

## 5 Test materials

Condition all test materials for at least 24 hours under standard conditions.

## 6 Apparatus

**6.1** Three-gang mould used to prepare prismatic specimens 40 mm x 40 mm x 160 mm, with ground surfaces, made of steel, in accordance with EN 196-1:1994. Holes for fitting suitable pins shall be drilled into the ends into the sides of the moulds corresponding to the ends of test specimen (see Figure 1).

**6.2** Inserts six smooth, rigid, non-absorbent frames (e.g. in polyethylene or PTFE), with dimensions of 40 mm x 160 mm and thickness of 15 mm.

**6.3** Jolting apparatus or jolting table used for the compaction of 40 mm x 40 mm x 160 mm grout specimen; in accordance with 4.6 of EN 196-1:1994.

**6.4** Measuring apparatus shall consist of a measurement attachment and a base with adjustment screws. The measurement attachment shall be formed by a dial gauge, which reads accurately to 0,01 mm, rigidly mounted in a measuring frame (see Figures 2, 3, 4).

**6.5** Calibration rod or reference rod shall be used as a standard length against which gauge readings can be tested. The rod shall be made of material having a negligible coefficient of expansion (e.g. Invar).