

**Binders, composite binders and factory  
made mixtures for floor screeds based  
on calcium sulfate - Part 2: Test  
methods KONSOLIDEERITUD TEKST**

Binders, composite binders and factory made  
mixtures for floor screeds based on calcium sulfate -  
Part 2: Test methods CONSOLIDATED TEXT

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13454-2:2004+A1:2007 sisaldab Euroopa standardi EN 13454-2:2003+A1:2007 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 14.09.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13454-2:2004+A1:2007 consists of the English text of the European standard EN 13454-2:2003+A1:2007.</p> <p>This document is endorsed on 14.09.2007 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 describes the test methods for binders and composite binders for floor screeds based on calcium sulfate specified in prEN 13454-1. This European Standard describes the test methods for factory made mixtures for floor screeds based on calcium sulfate specified in EN 13813. This European Standard describes reference test methods. If other than these methods and conditions are used, it is necessary to show that they give results equivalent to those given by the reference methods. In the event of a dispute, only the reference test method is used.</p>	<p><b>Scope:</b> This European Standard describes the test methods for binders and composite binders for floor screeds based on calcium sulfate specified in prEN 13454-1. This European Standard describes the test methods for factory made mixtures for floor screeds based on calcium sulfate specified in EN 13813. This European Standard describes reference test methods. If other than these methods and conditions are used, it is necessary to show that they give results equivalent to those given by the reference methods. In the event of a dispute, only the reference test method is used.</p>
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ICS 91.100.10, 91.100.50

**Võtmesõnad:**

English Version

**Binders, composite binders and factory made mixtures for floor screeds based on calcium sulfate - Part 2: Test methods**

Liants, liants composites et mélanges fabriqués en usine à base de sulfate de calcium pour chapes de sol - Partie 2: Méthodes d'essai

Calciumsulfat-Binder, Calciumsulfat-Compositbinder und Calciumsulfat-Werkmörtel für Estriche - Teil 2: Prüfverfahren

This European Standard was approved by CEN on 1 September 2003 and includes Amendment 1 approved by CEN on 22 June 2007.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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 and United Kingdom.



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## Foreword

This document (EN 13454-2:2003+A1:2007) has been prepared by Technical Committee CEN/TC 241 "Gypsum and gypsum based products", the secretariat of which is held by AFNOR.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2008 and conflicting national standards shall be withdrawn at the latest by January 2008.

This document includes Amendment 1 approved by CEN on 2007-06-22.

This document supersedes EN 13454-2:2003.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 and A1.

A1 deleted text A1

The European Standard EN 13454 for binders, composite binders and factory made mixtures for floor screeds based on calcium sulfate consists of two parts:

*Part 1: Definitions and requirements*

*Part 2: Test methods*

The requirements in prEN 13454-1 are based on the results of tests according to EN 13454-2 on binders, composite binders and factory made mixtures for floor screeds based on calcium sulfate.

This European Standard describes test methods for binders, composite binders and factory made mixtures where the principal active component is calcium sulfate.

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, 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 and United Kingdom.

## 1 Scope

This European Standard describes the test methods for binders and composite binders for floor screeds based on calcium sulfate specified in prEN 13454-1.

This European Standard describes the test methods for factory made mixtures for floor screeds based on calcium sulfate specified in EN 13813.

This European Standard describes reference test methods. If other than these methods and conditions are used, it is necessary to show that they give results equivalent to those given by the reference methods. In the event of a dispute, only the reference test method is used.

## 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 196-1:2005 <sup>A1</sup>, *Methods of testing cement – Part 1 : Determination of strength*

EN 196-3:2005, *Methods of testing cement - Part 3: Determination of setting times and soundness* <sup>A1</sup>

EN 196-7:1989, *Methods of testing cement – Part 7: Methods of taking and preparing samples of cement*

EN 459-2:2001, *Building lime – Part 2: Test methods*

EN 13813, *Screed material and floor screeds - Screed material - Properties and requirements*

EN 13892-1, *Methods of test for screed materials - Part 1: Sampling, making and curing specimens for test*

## 3 Test conditions and sampling

### 3.1 General requirements for testing

#### 3.1.1 Water

The water used for testing and chemical analyses shall be distilled or deionised.

Unless otherwise specified, the water temperature shall be the same as the air temperature in the laboratory.

#### 3.1.2 Apparatus

The apparatus used for gauging and the moulds used for preparing the test specimens, shall be free from leaks and shall be manufactured from a water proof material which is non reactive to calcium sulfate (e.g. glass, brass, stainless steel, hardened steel, hard rubber and plastics etc.).

Since the characteristics of calcium sulfate are strongly influenced by the presence of particles of calcium sulfate dihydrate which can influence the setting time, all equipment used in the tests shall be kept in a perfect state of cleanliness.