



NSAI
Standards

Irish Standard
I.S. EN 13454-2:2019

Binders for floor screeds based on calcium sulphate - Part 2: Test methods

I.S. EN 13454-2:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

EN 13454-2:2019

Published:

2019-01-23

This document was published under the authority of the NSAI and comes into effect on:

2019-02-10

ICS number:

91.100.10

91.100.50

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 13454-2:2019 is the adopted Irish version of the European Document EN 13454-2:2019, Binders for floor screeds based on calcium sulphate - Part 2: Test methods

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page is intentionally left blank

EUROPEAN STANDARD

EN 13454-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2019

ICS 91.100.10; 91.100.50

Supersedes EN 13454-2:2003+A1:2007

English Version

Binders for floor screeds based on calcium sulphate - Part 2: Test methods

Liants à base de sulfate de calcium pour chapes - Partie
2 : Méthodes d'essai

Calciumsulfat-Binder für Estriche - Teil 2:
Prüfverfahren

This European Standard was approved by CEN on 19 November 2018.

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, Serbia, 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: Rue de la Science 23, B-1040 Brussels

Contents		Page
European foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Test conditions and sampling	4
4.1	General requirements for testing	4
4.2	Sampling for binders	5
5	Test methods for binders	5
5.1	Content of calcium sulphate	5
5.2	Determination of pH-value	6
5.3	Determination of setting time	7
5.4	Determination of mechanical resistance	12
5.5	Determination of shrinkage and swelling	17
5.6	Determination of working time	20
6	Test report	21
Bibliography		22

European foreword

This document (EN 13454-2:2019) has been prepared by Technical Committee CEN/TC 241 “Gypsum and gypsum based products”, the secretariat of which is held by AFNOR.

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 July 2019, and conflicting national standards shall be withdrawn at the latest by July 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document will supersede EN 13454-2:2003+A1:2007.

The main differences between this document and EN 13454-2:2003+A1:2007 are:

- a) the title was adapted;
- b) the normative references were updated;
- c) the terms 'flow diameter' and 'spread' were interchanged;
- d) the clause on sampling for factory made mixtures was deleted;
- e) a differentiation between binders for stiff and flowing mixtures was introduced;
- f) the setting time for binders for flowing mixtures was introduced;
- g) the final setting time was deleted;
- h) the working time for binders and factory made mixtures were introduced;
- i) the test methods for factory made mixtures (CA) were deleted;
- j) the document was editorially revised.

EN 13454, *Binders for floor screeds based on calcium sulphate* consists of two parts:

— *Part 1: Definitions and requirements*

— *Part 2: Test methods*

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 13454-2:2019 (E)

1 Scope

This document describes the test methods for binders for floor screeds based on calcium sulphate specified in EN 13454-1. In addition, some of the described test methods apply for factory made mixtures for floor screeds based on calcium sulphate specified in EN 13813.

This document describes reference test methods. If methods and conditions other than these are used, it is important 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.

This document describes test methods for binders and made mixtures where the principal active component is calcium sulphate.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 196-1:2016, *Methods of testing cement - Part 1: Determination of strength*

EN 196-3:2016, *Methods of testing cement - Part 3: Determination of setting times and soundness*

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

EN 459-2:2010, *Building lime - Part 2: Test methods*

EN 13279-2, *Gypsum binders and gypsum plasters - Part 2: Test methods*

EN 13454-1, *Binders for floor screeds based on calcium sulphate - Definitions and requirements*

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 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

4 Test conditions and sampling

4.1 General requirements for testing

4.1.1 Water

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

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

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-