

DIN EN 520

ICS 01.040.91; 91.100.10

Supersedes
DIN EN 520:2005-03
See start of validity

**Gypsum plasterboards –
Definitions, requirements and test methods
(includes Amendment A1:2009)
English version of DIN EN 520:2009-12**

Gipsplatten –
Begriffe, Anforderungen und Prüfverfahren
(enthält Änderung A1:2009)
Englische Fassung DIN EN 520:2009-12

Document comprises 56 pages



Start of validity

This standard is due to take effect on 1 February 2010.

DIN EN 520:2005-03 may be used in parallel until 1 February 2010 (see deadline in the EU Official Journal).

It should be noted that, in Germany, CE conformity marking of construction products will be permitted once this standard has been listed in the *Bundesanzeiger* (German Federal Law Gazette) and from the date given therein.

National foreword

This standard has been prepared by Technical Committee CEN/TC 241 "Gypsum and gypsum based products" (Secretariat: AFNOR, France).

The responsible German body involved in its preparation was the *Normenausschuss Bauwesen* (Building and Civil Engineering Standards Committee), Technical Committee NA 005-09-10 AA *Gips und Gipsprodukte*.

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

Amendments

This standard differs from DIN EN 520:2005-03 as follows:

- a) In clause 3 "Terms and definitions", 3.2.9 and 3.3 have been modified.
- b) Subclause 3.4 "Symbols and abbreviations" has been added.
- c) Subclauses 4.9.1.3 and 4.9.2.3 relating to thickness have been modified.
- d) Subclause 4.10 and the table relating to water absorption classes have been modified.
- e) Annex B and Table B.1 have been modified.
- f) Figures C.1a) to C.1c) have been replaced by new ones.
- g) Annex ZA has been modified.

Previous editions

DIN 18180: 1967-06, 1978-08, 1989-09
DIN EN 520: 2005-03

English Version

Gypsum plasterboards - Definitions, requirements and test methods

Plaques de plâtre - Définitions, spécifications et méthodes d'essai

Gipsplatten - Begriffe, Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 16 August 2004 and includes Amendment 1 approved by CEN on 20 July 2009.

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.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

	Page
Foreword.....	3
Introduction	4
1 Scope	7
2 Normative references	7
3 Terms and definitions	8
4 Requirements	12
5 Test methods.....	17
6 Evaluation of conformity.....	34
7 Designation of plasterboards	36
8 Marking, labelling and packaging	37
Annex A (informative) Sampling procedure for testing.....	38
A.1 General.....	38
A.2 Sampling procedure	38
A.2.1 Random sampling	38
A.2.2 Representative sampling	38
Annex B (normative)  Conditions for reaction to fire classification of gypsum plasterboards without further testing.....	40
B.0 Introduction	40
B.1 End use application	40
B.1.1 General.....	40
B.1.2 (Method 1) Mechanically fixed to a supporting substructure	40
B.1.3 (Method 2) Mechanically fixed to a solid wood-based substrate	41
B.1.4 (Method 3) Mechanically fixed or bonded to a solid substrate (dry lining system) 	41
Annex C (normative) Mounting and fixing in the test according to EN 13823 (SBI test).....	42
C.0 Introduction	42
C.1 General applications	42
C.2 Limited applications regarding joint filling	44
C.3 Limited applications regarding wood based substrates 	44
Annex ZA (informative) Clauses of this European Standard addressing provisions of EU Construction Products Directive	46
ZA.1 Scope and relevant characteristics	46
ZA.2 Attestation and declaration of conformity of gypsum plasterboards	47
ZA.3 CE marking and labeling	51
Bibliography	54

Foreword

This document (EN 520:2004+A1:2009) 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 February 2010, and conflicting national standards shall be withdrawn at the latest by February 2010.

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 includes Amendment 1, approved by CEN on 2009-07-20.

This document supersedes EN 520:2004.

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

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.

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.

Introduction

Gypsum plasterboards are composed of a plaster core encased in, and firmly bonded to paper liners to form flat rectangular boards. ^{A1} This composition allows them properties which make gypsum plasterboards particularly suitable for use in situations where fire protection, sound and thermal insulation are required. ^{A1}

Gypsum plasterboards may be fixed by various methods e.g. nailing, screwing or sticking with gypsum based or other adhesives. They may also be inserted in a suspended ceiling system.

Gypsum plasterboards are selected for use according to their type, size, thickness and edge profile. The boards may be used for example to provide dry lining finishes to walls, to fixed and suspended ceilings, to partitions, or as cladding to structural columns and beams. Other uses may be for flooring and sheathing application.

Diagrams 1 and 2 show the relationship between this standard and the package of standards prepared to support the families of gypsum and ancillary products.