

Gypsum plasterboards — Definitions, requirements and test methods

ICS 01.040.91; 91.100.10

National foreword

This British Standard is the UK implementation of EN 520:2004+A1:2009. It supersedes BS EN 520:2004, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by **A1** **A1**.

The UK participation in its preparation was entrusted by Technical Committee B/544, Plastering, rendering, dry lining, to Subcommittee B/544/2, Gypsum based boards and ancillaries.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

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

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 22 November 2004

© BSI 2010

ISBN 978 0 580 63867 1

Amendments/corrigenda issued since publication

Amd. No.	Date	Comments
16421 Corrigendum No. 1	31 July 2006	Supersession details added.
	28 February 2010	Implementation of CEN amendment A1:2009

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.