

**Mehhaanilised kinnitusvahendid kipsplaatsüsteemide
fikseerimiseks. Määratlused, nõuded ja katsemeetodid
KONSOLIDEERITUD TEKST**

Mechanical fasteners for gypsum plasterboard systems -
Definitions, requirements and tests methods
CONSOLIDATED TEXT

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 14566:2008+A1:2009 sisaldab Euroopa standardi EN 14566:2008+A1:2009 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.09.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 05.08.2009.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 14566:2008+A1:2009 consists of the English text of the European standard EN 14566:2008+A1:2009.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.09.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 05.08.2009.

The standard is available from Estonian standardisation organisation.

ICS 21.060.99, 91.100.10

Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

Right to reproduce and distribute Estonian Standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without permission in writing from Estonian Centre for Standardisation.

If you have any questions about standards copyright, please contact Estonian Centre for Standardisation:
Aru str 10 Tallinn 10317 Estonia; www.evs.ee; Phone: +372 605 5050; E-mail: info@evs.ee

English Version

Mechanical fasteners for gypsum plasterboard systems - Definitions, requirements and test methods

Fixations mécaniques pour systèmes en plaques de plâtre -
Définitions, spécifications et méthodes d'essai

Mechanische Befestigungsmittel für Gipsplattensysteme -
Begriffe, Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 30 January 2008 and includes Amendment 1 approved by CEN on 6 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	6
2 Normative references	6
3 Terms and definitions	7
4 Requirements	8
4.1 Reaction to fire.....	8
4.2 Flexural strength (bending behaviour).....	8
4.3 Release of (regulated) dangerous substances.....	8
4.4 Additional requirements	8
5 Test methods.....	10
5.1 General.....	10
5.2 Number of samples.....	11
5.3 Dimensional measurement	11
5.4 Determination of withdrawal force.....	12
5.5 Determination of bending behaviour	13
5.6 Drilling time test.....	14
5.7 Determination of the thickness and/or mass of coating	15
5.8 Determination of pull-through force	15
6 Evaluation of conformity.....	16
6.1 General.....	16
6.2 Type testing.....	17
6.3 Factory production control (FPC)	17
7 Designation	19
7.1 Nails	19
7.2 Screws	19
7.3 Staples	19
8 Marking, labelling and packaging	20
Annex A (informative) Examples of fixing types.....	21
Annex B (informative) Sampling procedure for testing.....	24
Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Directive.....	26
Bibliography	30

Foreword

This document (EN 14566:2008+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.

This document includes Amendment 1, approved by CEN on 2009-07-06.

This document supersedes EN 14566:2008.

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

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 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

Figures 1 and 2 show the relationship between this European Standard and the package of standards prepared to support the family of gypsum and ancillary products.

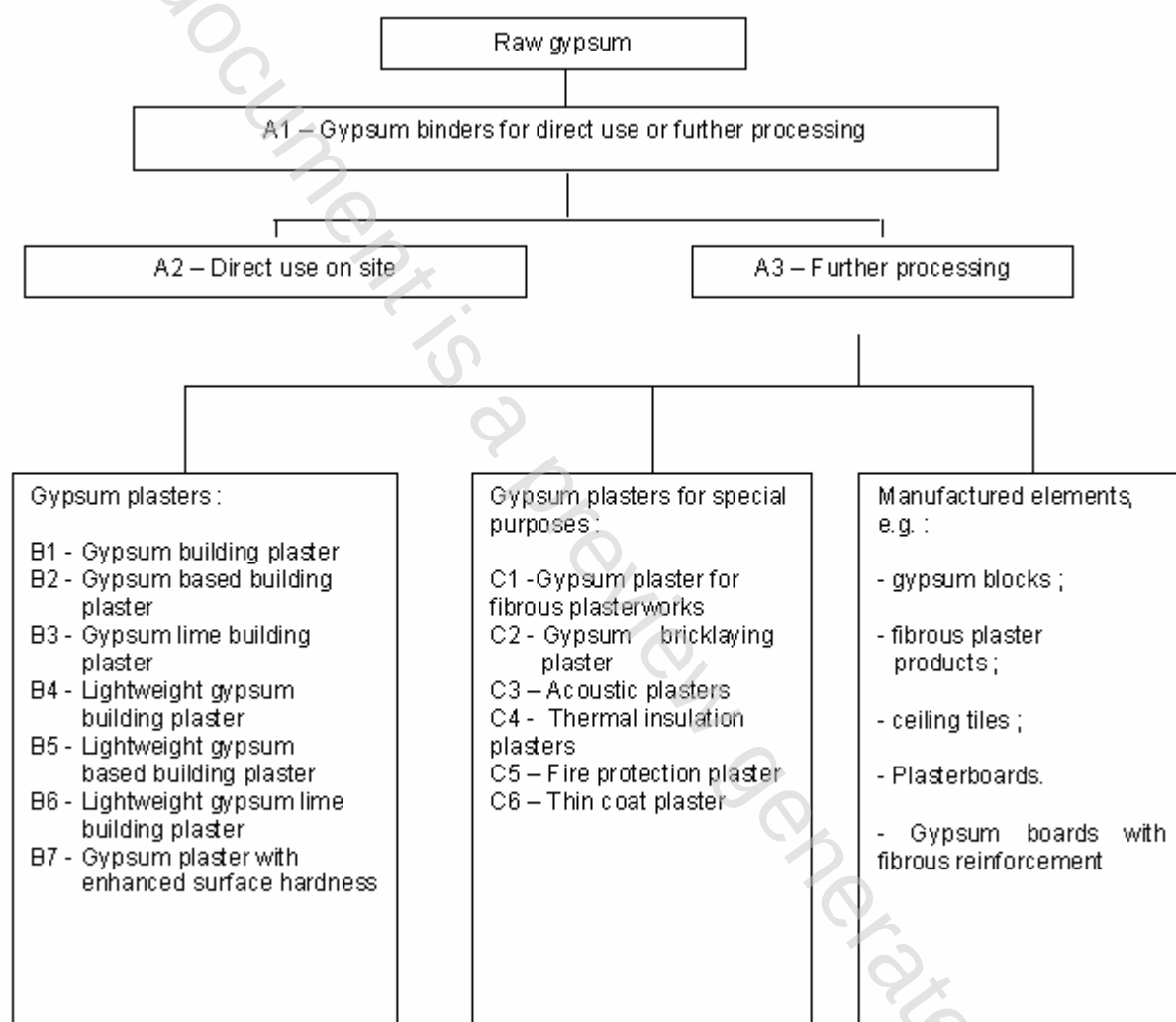
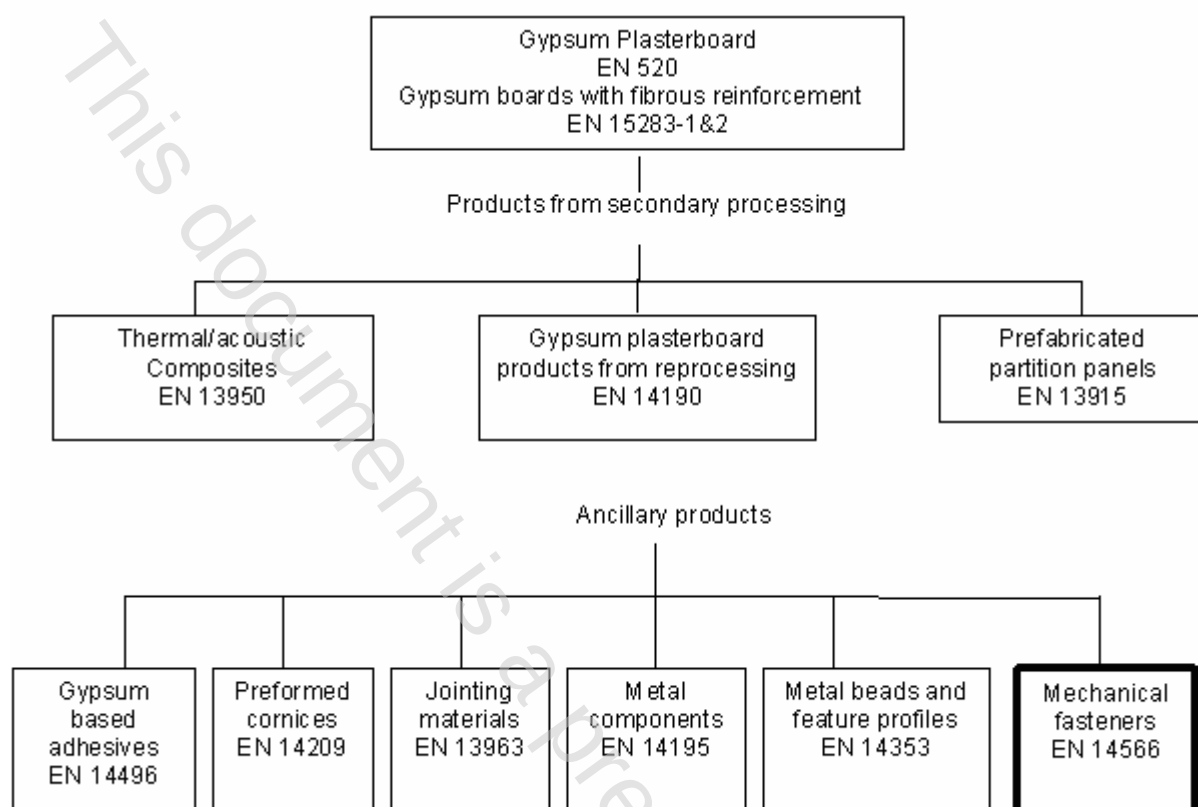


Figure 1 — Family of gypsum products

A1



A1

Figure 2 — Family of ancillary products

1 Scope

This European Standard specifies the characteristics and performance of mechanical fasteners, including nails, screws and staples, intended to be used for the fixing of gypsum plasterboard, gypsum boards with fibrous reinforcement, products from secondary processing and suitable ancillary products as shown in Figure 2, to timber and metal, as appropriate, in building construction works. The fasteners secure the board to the framing enabling its surface to be finished by jointing or plastering to receive decoration. They can also be used for the construction of the framing and for the connection between substructure and load bearing components and for fixing boards together. Mechanical fasteners contribute to the stability of the assembly.

This European Standard covers the following product performance characteristics: reaction to fire and flexural strength to be measured according to the corresponding European test methods.

It provides for the evaluation of conformity of the product to this European Standard.

This European Standard also covers the additional technical characteristics that are of importance for the use and acceptance of the products by the construction industry and the reference tests for these characteristics.

This European Standard does not cover nails, screws and staples intended for use with materials other than plasterboard and the plasterboard based products referred to above and their associated system components.

2 Normative references

The following referenced documents are indispensable for the application 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 338, *Structural timber — Strength classes*

EN 520, *Gypsum plasterboards — Definitions, requirements and test methods*

EN 10016 (all parts), *Non-alloy steel rod for drawing and/or cold rolling*

[A₁] EN 10083, *Steels for quenching and tempering*

EN 10084, *Case hardening steels — Technical delivery conditions* **[A₁]**

EN 10230-1, *Steel wire nails — Part 1: Loose nails for general applications*

EN 10327, *Continuously hot-dip coated strip and sheet of low carbon steels for cold forming — Technical delivery conditions*

EN 14195, *Metal framing components for gypsum plasterboard systems — Definitions, requirements and test methods*

EN ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method (scales A, B, C, D, E, F, G, H, K, N, T) (ISO 6508-1:2005)*

[A₁] *deleted text* **[A₁]**

EN ISO 9001:2000, *Quality management system — Requirements (ISO 9001:2000)*

EN ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests (ISO 9227:2006)*

EN ISO 12777-3:2002, *Methods of test for pallet joints — Part 3: Determination of strength of pallet joints (ISO 12777-3:2002)*