

Gypsum elements for suspended ceilings - Definitions, requirements and test methods

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14246:2006 sisaldab Euroopa standardi EN 14246:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 31.07.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14246:2006 consists of the English text of the European standard EN 14246:2006.</p> <p>This document is endorsed on 31.07.2006 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>Käsitlusala: This European Standard specifies the characteristics and performance of factory made cast gypsum elements, for which the main intended uses are the construction of suspended ceilings under universal substrates. It covers the following product performance characteristics: reaction to fire, water vapour permeability, flexural strength (expressed as breaking load) and thermal resistance (expressed as thermal conductivity).</p>	<p>Scope: This European Standard specifies the characteristics and performance of factory made cast gypsum elements, for which the main intended uses are the construction of suspended ceilings under universal substrates. It covers the following product performance characteristics: reaction to fire, water vapour permeability, flexural strength (expressed as breaking load) and thermal resistance (expressed as thermal conductivity).</p>
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ICS 91.100.10

Võtmesõnad: conformity a, conformity tests, definition, definitions, designations, fire resistance, flame propagation, gypsum panels, material, mortars, plaster of paris, plates, specification (approval), specifications, surface spread of flame, testing, tiles, underceilings

ICS 91.100.10

English Version

Gypsum elements for suspended ceilings - Definitions, requirements and test methods

Eléments en plâtre pour plafonds suspendus - Définitions, spécifications et méthodes d'essai

Gipselemente für Unterdecken (abgehängte Decken) - Begriffe, Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 10 May 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, 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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Contents

Page

Foreword.....	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 Types of gypsum ceiling elements for suspended ceilings.....	8
4.1 General.....	8
4.2 Gypsum units.....	8
4.3 Gypsum tiles	10
5 Requirements	11
5.1 Fire behaviour	11
5.2 Water vapour permeability (expressed as water vapour resistance factor).....	12
5.3 Flexural strength (expressed as flexural breaking load).....	12
5.4 Acoustic properties	12
5.5 Thermal properties — Thermal resistance (expressed as thermal conductivity).....	12
5.6 Regulated substances.....	13
5.7 Appearance	13
5.8 Dimensions and tolerances	13
5.9 Squareness.....	14
5.10 Flatness (not for tiles with decorative face).....	14
5.11 Mass per unit of surface and tolerance	14
5.12 Moisture content.....	14
5.13 pH	14
6 Test methods.....	15
6.1 Sampling.....	15
6.2 Preparation of the test specimens	15
6.3 Determination of flexural strength.....	15
6.4 Determination of surface appearance	17
6.5 Measurement of dimensions	17
6.6 Determination of squareness	20
6.7 Determination of flatness (not for gypsum elements with decorated faces)	21
6.8 Determination of the mass per surface unit	21
6.9 Determination of the moisture content.....	22
6.10 pH measurement.....	22
6.11 Test report	22
7 Evaluation of conformity.....	23
7.1 General.....	23
7.2 Type testing.....	23
7.3 Factory production control (FPC)	24
8 Designation	25
9 Marking, labelling and packaging	26
Annex A (informative) Sampling procedure for testing	27
A.1 General.....	27
A.2 Sampling procedure	27

Annex ZA (informative) Clauses of this European Standard addressing provisions of EU	
Construction Products Directive	29
ZA.1 Scope and relevant characteristics	29
ZA.2 Attestation and declaration of conformity of gypsum elements for suspended ceilings	31
ZA.3 CE Marking and labelling	33
Bibliography	35

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Foreword

This document (EN 14246:2006) 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 December 2006, and conflicting national standards shall be withdrawn at the latest by March 2008.

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, 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 elements for suspended ceiling are composed of gypsum plaster; they are used for suspended ceilings for interior applications as units or tiles.

Diagram 1 shows the relationship between this European Standard and the package of standards prepared to support the family of gypsum products.

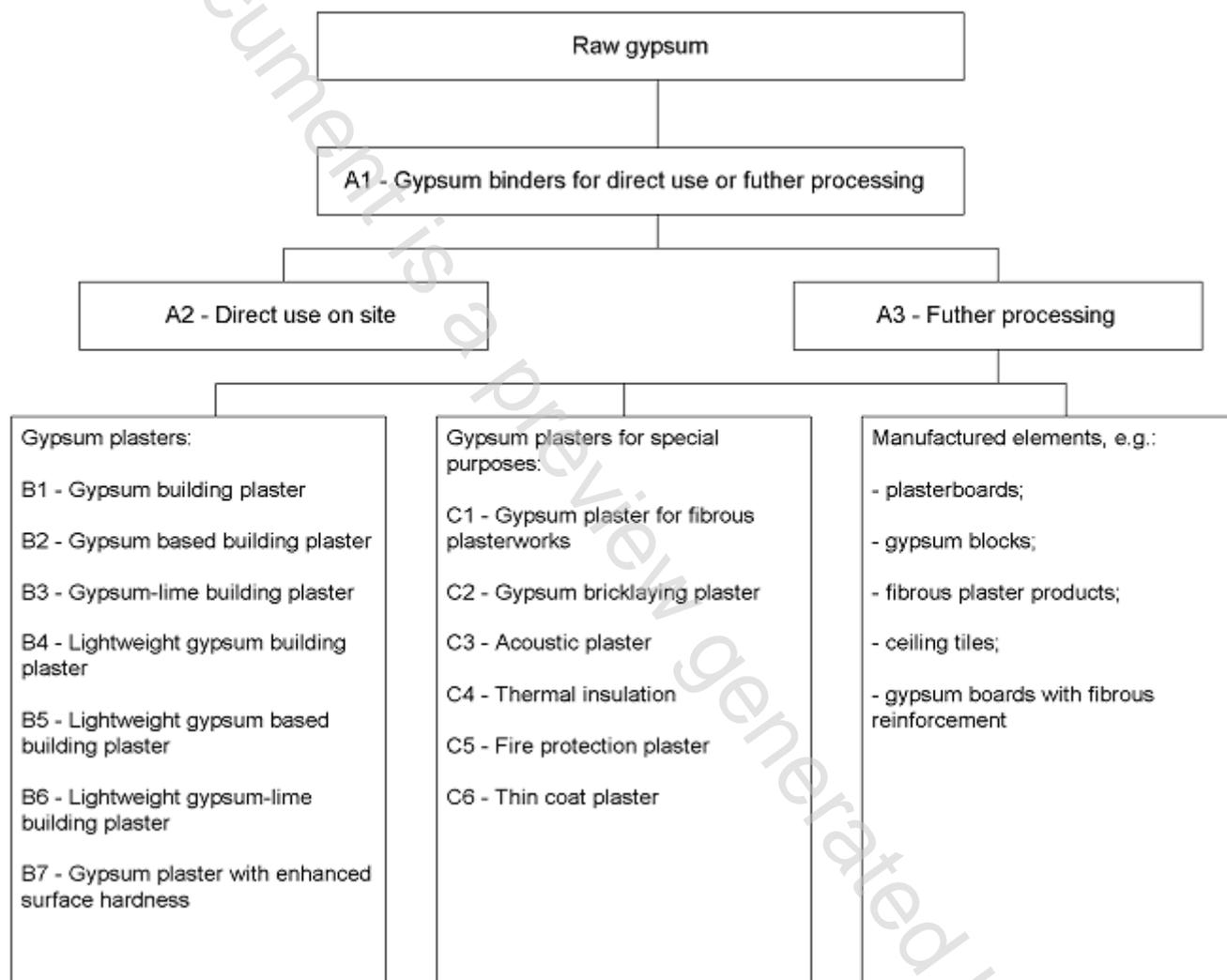


Diagram 1 — Family of gypsum products

1 Scope

This European Standard specifies the characteristics and performance of factory made cast gypsum elements, for which the main intended uses are the construction of suspended ceilings under universal substrates.

It covers the following product performance characteristics: reaction to fire, water vapour permeability, flexural strength (expressed as breaking load) and thermal resistance (expressed as thermal conductivity).

The following performance characteristics are linked to systems assembled with gypsum elements for suspended ceilings: fire resistance, direct airborne sound insulation and acoustic absorption, which can be measured according to the corresponding European test methods. If required, tests should be done on assembled system simulating the end use conditions.

This European Standard describes the reference tests for technical specifications.

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

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

This European Standard does not cover metal ceiling grids or plasterboard products.

This European Standard excludes stiffening timber roof truss structure applications.

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 13501-1, *Fire classification of construction products and building elements — Part 1: Classification using test data from reaction to fire tests*

EN 13501-2, *Fire classification of construction products and building elements — Part 2: Classification using data from fire resistance tests, excluding ventilation services*

EN ISO 140-3, *Acoustics — Measurement of sound insulation in buildings and of building elements — Part 3: Laboratory measurements of airborne sound insulation of buildings elements (ISO 140-3:1995)*

EN ISO 354, *Acoustics — Measurement of sound absorption in a reverberation room (ISO 354:2003)*

EN ISO 717-1, *Acoustics — Rating of sound insulation in buildings and of building elements — Part 1: Airborne sound insulation (ISO 717-1:1996)*

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