Kiudsarrusega kipsplaadid. Määratlused, nõuded ja katsemeetodid. Osa 2: Kiududega sarrustatud kipsplaadid KONSOLIDEERITUD TEKST

Gypsum boards with fibrous reinforcement - Definitions, requirements and test methods - Part 2: Gypsum fibre EX. COLICIA OCO DE COLICIA DE COL boards CONSOLIDATED TEXT



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15283-2:2008+A1:2009 sisaldab Euroopa standardi EN 15283-2:2008+A1:2009 ingliskeelset teksti.

This Estonian standard EVS-EN 15283-2:2008+A1:2009 consists of the English text of the European standard EN 15283-2:2008+A1:2009.

Standard on kinnitatud Eesti Standardikeskuse 30.10.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.10.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 18.08.2009.

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Standard on kättesaadav Eesti standardiorganisatsioonist.

The standard is available from Estonian standardisation organisation.

ICS 01.040.91, 91.100.10

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EUROPEAN STANDARD

EN 15283-2:2008+A1

NORME EUROPÉENNE EUROPÄISCHE NORM

August 2009

ICS 01.040.91; 91.100.10

Supersedes EN 15283-2:2008

English Version

Gypsum boards with fibrous reinforcement - Definitions, requirements and test methods - Part 2: Gypsum fibre boards

Plaques de plâtre armées de fibres - Définitions, spécifications et méthodes d'essai - Partie 2: Plaques de plâtre fibrées Faserverstärkte Gipsplatten - Begriffe, Anforderungen und Prüfverfahren - Teil 2: Gipsfaserplatten

This European Standard was approved by CEN on 28 December 2007 and includes Amendment 1 approved by CEN on 20 July 2009.

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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.

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

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Foreword

This document (EN 15283-2:2008+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 2009-08-19.

This document supersedes EN 15283-2:2008.

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

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 standard includes two parts:

- Part 1: Gypsum boards with mat reinforcement
- Part 2: Gypsum fibre boards

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 89/106.

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 the United Kingdom.

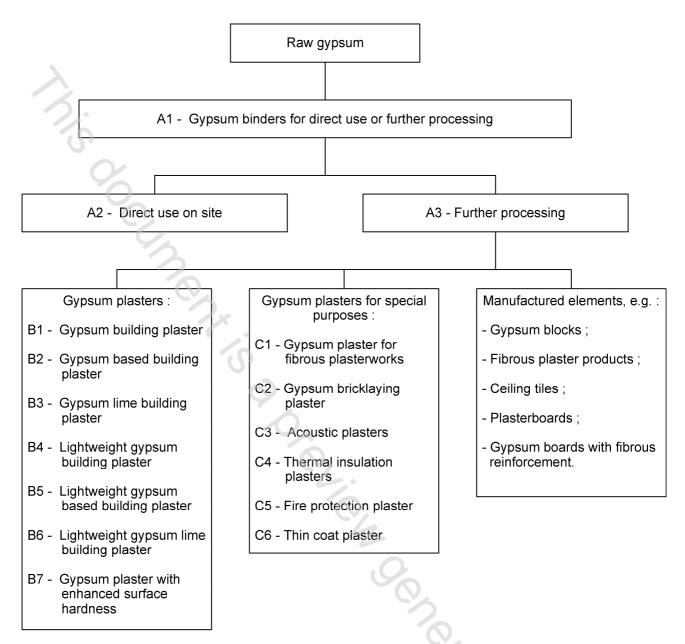


Diagram 1 — Families of gypsum products

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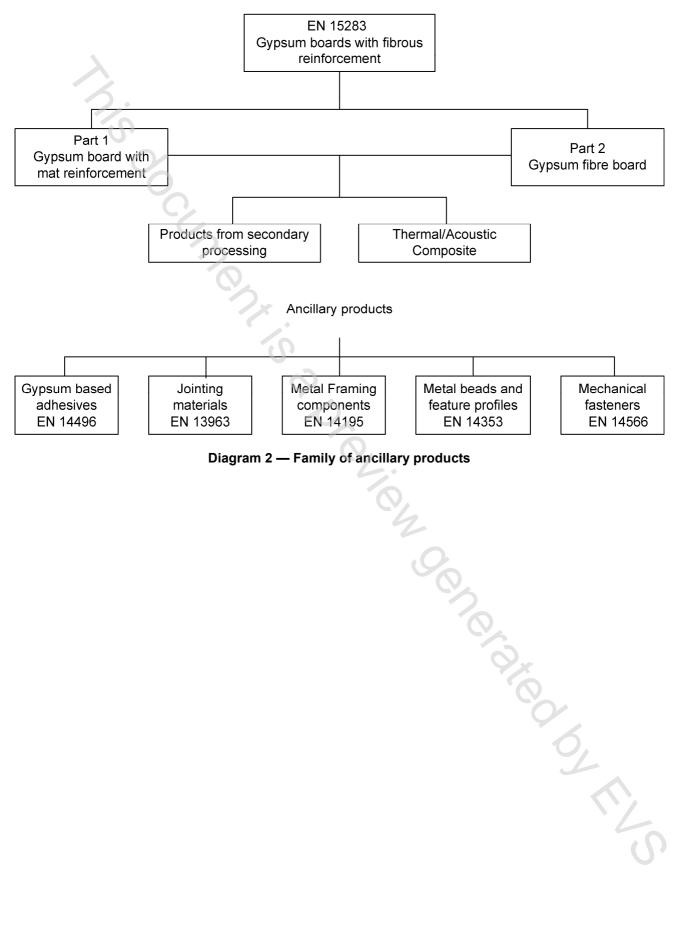


Diagram 2 — Family of ancillary products

Introduction

Gypsum fibre boards are composed of set gypsum plaster core reinforced with fibres which may be inorganic and/or organic, dispersed in the core to form flat rectangular boards. Admixtures and fillers may also be present. They are usually continuously produced on an industrial scale.

The properties of gypsum fibre boards make them particularly suitable for use in situations where there are requirements for fire protection, sound, thermal insulation or shear strength.

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

Gypsum fibre boards may be finished with direct surface decoration or gypsum plaster.

nge C They may be further processed into a range of other products.

1 Scope

This European Standard specifies the characteristics and performance of gypsum fibre boards intended to be used in building construction works including those intended for secondary manufacturing operations. It includes boards designed to receive either direct surface decoration or gypsum plaster.

Gypsum fibre boards 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 floors and sheathing applications.

This European Standard covers the following product performance characteristics: reaction to fire, water vapour permeability, flexural strength, and thermal resistance.

The following performance characteristics are linked to systems assembled with gypsum fibre boards: shear strength, fire resistance, impact resistance, direct airborne sound insulation, acoustic absorption. If required, tests have to be done according to the corresponding European test methods on assembled systems simulating the end use conditions.

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

It provides for evaluation of conformity of the product to this EN.

This European Standard does not cover gypsum fibre boards that have been subject to any secondary manufacturing operations (e.g. insulating composite panels, boards with thin lamination etc.).

Products covered by EN 520 or EN 13815 are excluded.

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 12524, Building material and products — Hygrothermal properties — Tabulated design values

EN 12664, Thermal performance of building materials and products — Determination of thermal resistance by means of guarded hot plate and heat flow meter methods — Dry and moist products of medium and low thermal resistance

EN 13501-1, Fire classification of construction products and building elements — Part 1: Classification using 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 13823, Reaction to fire tests for building products — Building products excluding floorings exposed to the thermal attack by a single burning item

EN 13963, Jointing materials for gypsum plasterboards — Definitions, requirements and test methods

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

EN 20535, Paper and board — Determination of water absorptiveness — Cobb method (ISO 535:1991)

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

EN ISO 354, Acoustics — Measurement of sound absorption in a reverberation room (ISO 354:1985)

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

EN ISO 12572, Hygrothermal performance of building materials and products — Determination of water vapour transmission properties (ISO 12572:2001)

ISO 7892, Vertical building elements — Impact resistance tests — Impact bodies and general test procedures

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

gypsum fibre boards

gypsum fibre boards are composed of set gypsum plaster reinforced with dispersed fibres, which may be inorganic and/or organic, to form flat rectangular boards. They may contain additives and/or fillers to impart additional properties. The surfaces may vary according to the use. The edges and the ends may be profiled to suit the application.

Gypsum fibre boards are usually continuously produced on an industrial scale.

For the purposes of identification these boards receive the designation GF

3.2 Additional features of gypsum fibre boards

3.2.1

gypsum fibre boards with reduced water absorption rate

gypsum fibre boards may have additives to reduce the water absorption rate which make them suitable for special applications in which reduced water absorption properties are required to improve the performance of the board. For the purposes of identification these boards receive the additional designation GF-H

3.2.2

gypsum fibre boards with reduced surface water absorption

gypsum fibre boards may have additives to reduce the surface water absorption which make them suitable for special applications in which reduced water absorption properties are required to improve the performance of the board. For the purposes of identification, these boards receive the additional designation GF-W1, GF-W2 with different surface water absorption performance

3.2.3

gypsum fibre boards with enhanced density

boards may have enhanced density for special applications. For the purposes of identification these boards receive the additional designation GF-D, in accordance with their density

3.2.4

gypsum fibre boards with enhanced surface hardness

boards may have enhanced surface hardness for special applications. For the purposes of identification these boards receive the additional designation GF-I