

DIN EN 14246

ICS 13.220.50; 91.060.30; 91.100.10

Supersedes
DIN 18169:1962-12
See start of validity

**Gypsum elements for suspended ceilings –
Definitions, requirements and test methods
English version of DIN EN 14246:2006-09**

Gipselemente für Unterdecken (abgehängte Decken) –
Begriffe, Anforderungen und Prüfverfahren
Englische Fassung DIN EN 14246:2006-09

Document comprises 37 pages

Start of validity

This standard is intended to be valid from 01 March 2007.

DIN 18169:1962-12 may be used in parallel until March 2008.

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).

National foreword

This standard has been prepared by CEN/TC 241 “Gypsum and gypsum based products” (Secretariat: France).

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

The designation example given in clause 8 shall read “Gypsum tile/EN 14246/600/600/30-concealed type C/10/6,5” instead of “Gypsum tile/EN 14246/600/600/30-concealed type B/10/6,5”.

Amendments

This standard differs from DIN 18169:1962-12 as follows:

- a) The dimensions have been amended.
- b) The test method has been changed.
- c) Another type of gypsum board has been included.

Previous editions

DIN 18169:1962-12

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.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

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