



SLOVENSKI STANDARD
SIST EN 14209:2006
01-april-2006

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Preformed plasterboard cornices - Definitions, requirements and test methods

Hohlkehlleisten aus kartonummanteltem Gips - Begriffe, Anforderungen und Prüfverfahren

Corniches préformées en plâtre revetues de carton - Définitions, spécifications et méthodes d'essai

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ICS:

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91.180

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ICS 91.100.10; 91.180

English Version

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This European Standard was approved by CEN on 16 September 2004.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This European Standard (EN 14209:2005) 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of an identical text or by endorsement, at the latest by May 2006, and conflicting national standards shall be withdrawn at the latest by August 2007.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Introduction

Preformed plasterboard cornices are composed of gypsum plaster encased in and firmly bonded to strong durable paper liners in the shape of narrow lengths with various face profiles.

The composition and finish is identical to that of gypsum plasterboard which makes them particularly suitable for use in situations where a compatible product is required to aesthetically enhance the junction between gypsum plasterboard lined or gypsum plastered walls and ceilings. As well as concealing unsightly cracks they can be used to provide a permanent and effective seal. They can also be used for decorative and acoustic purposes.

Preformed plasterboard cornices are installed with gypsum adhesive or mechanically fixed and can be finished with direct surface decoration.

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.

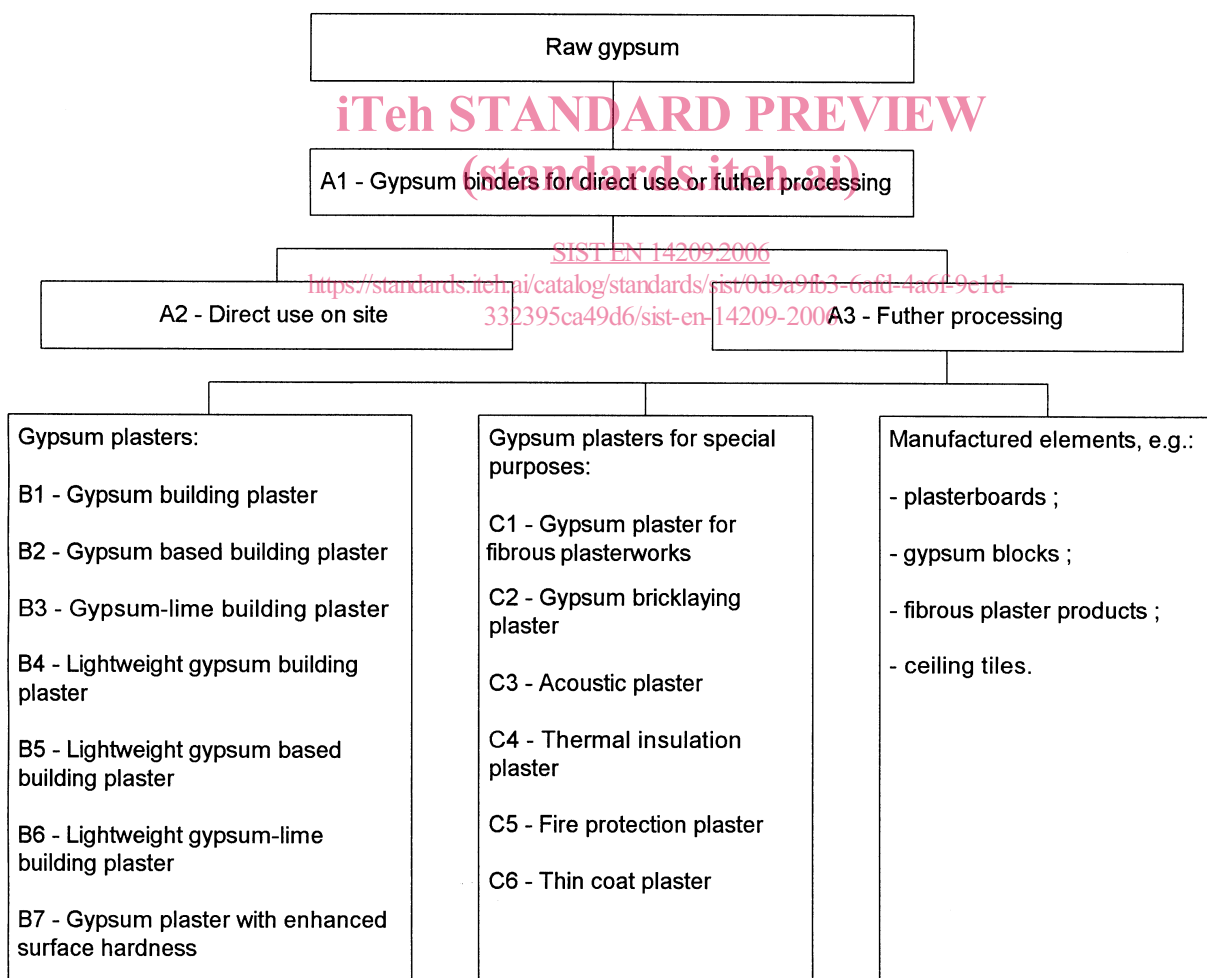
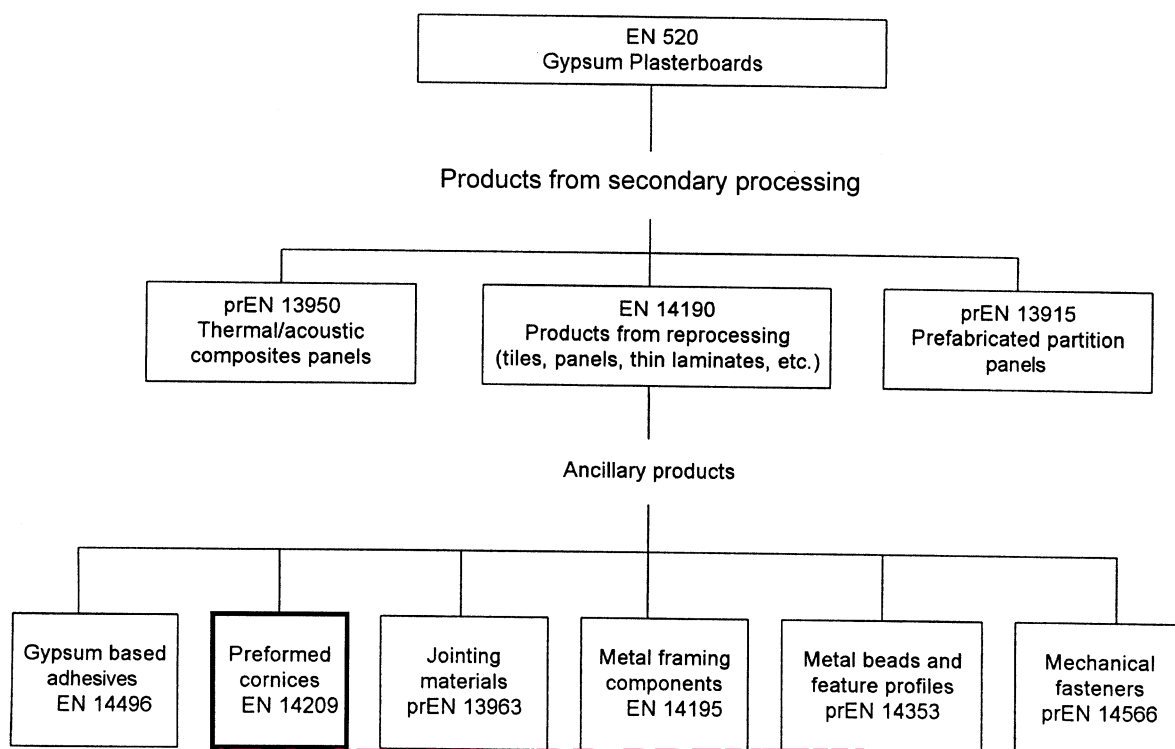


Diagram 1 — Family of gypsum products



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Diagram 2 — Family of ancillary products

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1 Scope

This European standard specifies the characteristics and performance of preformed plasterboard cornices intended to be used in building construction works either as part of the original specification or subsequently for improved decorative enrichment of the wall/ceiling angle in rooms.

This standard covers the performance characteristics: reaction to fire and flexural strength.

This standard covers also additional technical characteristics that are of importance for the use and 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 standard does not cover plain plaster and gypsum fibrous plasterwork cornices.

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 520, *Gypsum plasterboards - Definitions, requirements and test methods*

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

EN 13823, *Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item*

EN 14496, *Gypsum based adhesives for thermal/acoustic insulation composite panels and plasterboards - Definitions, requirements and test methods*

3 Terms and definitions

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

3.1 plasterboard cornice

preformed paper covered gypsum section with profiled face supported by shoulders

3.2 face

exposed surface usually concave, or partially concave with further contours to add embellishment

3.3 edge

boundary between the face and back angle which defines thickness (AC, see Figure 1)

3.4 back angle

return from edge, preset at a nominal 90° to facilitate positioning during application

3.5 end

cut section of length

3.6 girth

dimension measured indicating the projection of the profile at 90° (XC, see Figure 1)

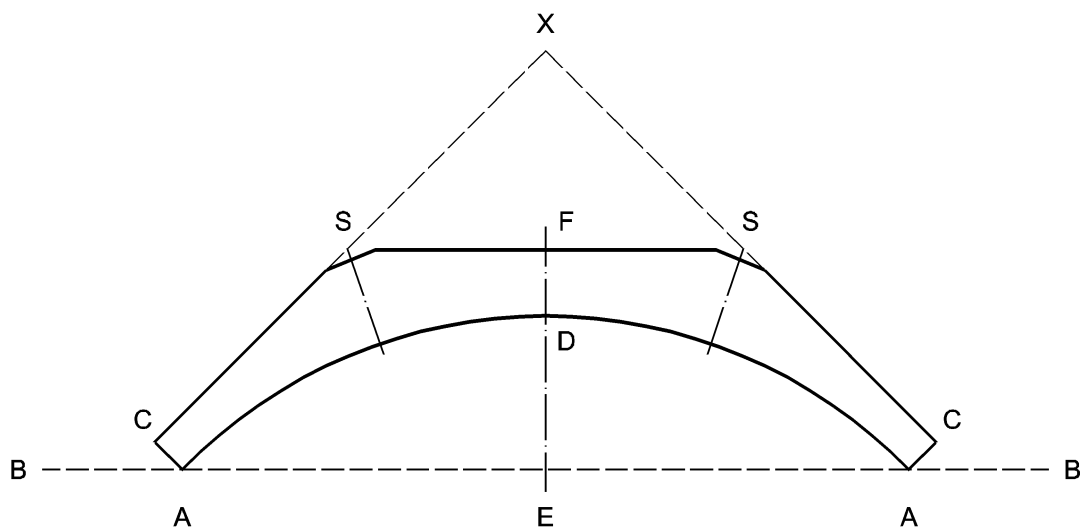


Figure 1 – Example of profile

4 Requirements

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4.1 Reaction to fire

Where subject to regulatory requirements, preformed plasterboard cornices shall be tested and classified in accordance with EN 13501-1.

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Preformed plasterboard cornices tested according to EN 13823 (SBI test) shall be mounted and fixed in accordance with Annex B or when the producer wishes to claim performance for a specific intended use, the mounting and fixing shall be representative of that intended use.

4.2 Flexural strength (expressed as bending behaviour)

Individual lengths shall be capable of being handled and installed using recommended practice. When tested in accordance with 5.4, the cornice shall not fracture.

4.3 Dangerous substances

Materials used in products shall not release any dangerous substances in excess of the maximum permitted levels specified in a relevant European Standard for the material or permitted in the national regulations of the member state of destination.

4.4 Composition

Preformed plasterboard cornices shall have constituents common to gypsum plasterboard to EN 520. The paper shall be suitable to receive decoration or be pre-finished. The abutting paper edges on the back of the cornice are, usually, concealed and secured by a self-adhesive paper tape. The core may contain additives, aggregates and/or fibres.

4.5 Profile and dimensions

4.5.1 General

Preformed plasterboard cornices are manufactured in a variety of girths, lengths and profiles to the producer's declared nominal dimensions. The lettering in the sub-clauses below refers to Figure 1.

4.5.2 Profile

Preformed plasterboard cornices shall be manufactured to provide a continuous section of regular profile and thickness to permit, subsequently, cut lengths to match their shape and thickness when ends are placed together. The ends shall be end finished, square and clean cut.

4.5.3 Face

The face and edges shall be free from bumps, grooves, voids, blisters, burrs, scuffing and staining.

The distance ED shall lie within the tolerance limits of ± 1 mm when checked in accordance with 5.3.

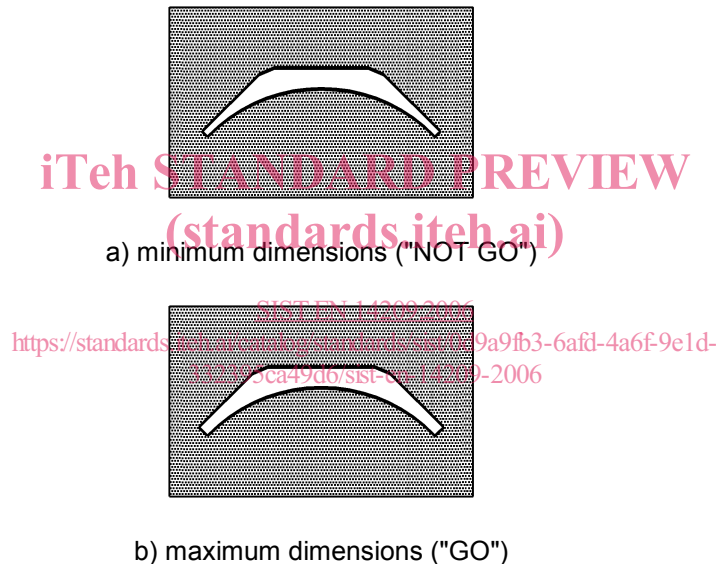


Figure 2 — Silhouette template

4.5.4 Back angle

The back angle (CXC) designed to facilitate positioning to the wall/ceiling angle shall be not less than 90° when checked in accordance with 5.3.

4.5.5 Side angle

The side angle (DAC) shall be of the specified profile e.g. square, bevelled or rounded when checked in accordance with 5.3.

4.5.6 Face width

The face width of the product (AA) shall lie within the tolerance limits of 2 mm when checked in accordance with 5.3.

4.5.7 Thickness

Thickness should be related to the constituents, composition and profile which combined shall provide the desired shape to facilitate handling and fixing. The main section (DF) shall have a minimum thickness of 9,5 mm and may require to be greater than that of section (AC) which shall have a minimum thickness of 5,5 mm when measured in accordance with 5.2.1.

4.5.8 Length

The length shall be measured in accordance with 5.2.2 and compared with the nominal length. The deviations shall be $\begin{matrix} +20 \\ 0 \end{matrix}$ mm

4.5.9 Squareness and integrity of ends

The sections shall be end-finished, square and clean cut.

5 Test methods

5.1 Sampling

A minimum of three cornices shall be subjected to the physical testing described in 5.2.1, 5.2.2 and 5.3.

5.2 Dimensional measurements

5.2.1 Thickness

5.2.1.1 Principle

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The thickness of the main member (DF) shall be measured and the side member (AC) in three separate positions per specimen.

5.2.1.2 Apparatus

A micrometer (callipers) permitting readings to 0,01 mm.

5.2.1.3 Procedure

Measure the thickness between the surfaces of the main and side members at representative surface areas and positions.

5.2.1.4 Expression of results

Record three measurements of thickness per length for each main and side member. All three specimens shall comply with 4.5.7.

5.2.2 Length

5.2.2.1 Principle

The length of the specimen shall be measured and the tolerances shall be compared.