H/106

EUROPEAN COMMISSION
DIRECTORATE-GENERAL III
INDUSTRY
Industrial affairs II: Capital goods industries
Construction

CONSTRUCT 95/132 C Rev. 1

MANDATE TO CEN/CENELEC
CONCERNING THE EXECUTION OF STANDARDISATION WORK
FOR A HARMONISED STANDARD ON

GYPSUM PRODUCTS

RELATED TO THE FOLLOWING END USES:

04/33 EXTERNAL WALLS (INCLUDING CLADDING), INTERNAL WALLS AND PARTITIONS
05/33 FLOORS, GALLERIES AND CEILINGS
10/33 SUSPENDED CEILINGS
12/33 INTERNAL FINISHES OF WALLS AND PARTITIONS
14/33 CEILING FINISHES

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of the standardisation mandates issued by the Commission to CEN/CENELEC within the context of the Council Directive 89/106/EEC of December 21, 1988 concerning construction products, hereafter referred to as "the Directive".
The main aim of the Directive is the removal of technical barriers to trade in the construction field, to the extent that they cannot be removed by mutual recognition of equivalence among all the Member States. Therefore, in a first phase, the standardisation mandates will refer to products for which all of the two following conditions are fulfilled :

a) the products are subject to technical barriers to trade;
b) the characteristics of the products influence the satisfaction by the construction works, in which they are to be incorporated in a permanent manner, of the essential requirements set out in article 3 of the Directive. These works are subject to legislative, regulatory or administrative regulations of Member States covering such essential requirements [1]

The present mandate is intended to provide for the harmonised European standards that are needed in order to make possible the "approximation" of national laws, regulations and administrative provisions, hereafter referred to as "regulations". This approximation is expected to be done by adapting the national regulations to take full account of the mandated harmonised standards.

[1] Any other type of barrier to trade falls within articles 30/36 of the Treaty, and must be directly eliminated by the Member State.

In this respect, the standardisers will refer to the basic principles prevailing in the regulations of Member States as described in the Interpretative documents, particularly in chapter 3, and, where applicable, to the more detailed description given within chapter 4.2 of the same document.

As stated by the Directive, the responsibility Member States have for construction works on their territory remains unchanged.
The essential requirements being expressed in terms of performance of the works, the characteristics of the products should be also expressed in terms of performance so that, in referring to the harmonised European standards, the regulations may "approximate" evolving in terms of "performance requirement".

Regulations that directly influence the nature of products will then be justified only in those cases in which a classification system is identified as the means of expressing the range of requirement levels of performance of the works (ID 1 point 1.2.1.2). Thus the harmonised standards covered by the present mandate should focus on the definition of the products and its CPD characteristics, on the relevant methods of determination of these characteristics (by calculation, testing,...) and, if necessary, the classification system of characteristics, if articles 3.2 and 6.3 of the Directive apply. Harmonised standards will also take into account all the current intended uses of the product, the evaluation of conformity and the labelling accompanying the CE marking, which will contain the values of the characteristics of the product on the basis of the technical specifications.
A minimum or a maximum level of a given characteristic that has to be met by family of products or a product, may be identified by the harmonised standard if required by an agreement of Member States expressed by positive vote under article 20 procedure (e.g. for masonry units, a compressive strength not less than $2N/mm^2$).

The CEN programme in response to this mandate should consist of a compact, simple package of items that are manageable and user-friendly for regulators, producers, notified bodies and users. In general one harmonised standard should be sufficient to cover the main performances of a given family of products.
A producer not wishing to meet the non-mandated European standards will be able to use the CE marking on his product by referring only to the set of harmonised standards. On the other hand, if a non-mandated standard includes also the entire content of the harmonised standard, compliance with the former standard may give also presumption of conformity to the harmonised standard and will enable the bearing of the CE marking.
In this case, an appropriate system of reference should be established in the European standard in order to clearly distinguish the CPD-related content from the remaining part of the standard.

II. GROUNDS

1. This mandate falls within the framework of the general policy of the Commission with respect to technical harmonisation and standardisation, as well as within the scope of the Directive.

2. This mandate is based on article 7 of the Directive and has regard to the interpretative documents [2] that serve as reference for the establishment of the harmonised standards (see article 12 of the Directive). It serves to ensure the quality of the harmonised standards for products, always with reference to the state of the art, with particular reference to:
   - the fitness of the products listed in annex 1 intended for use for **EXTERNAL WALLS (INCLUDING CLADDING), INTERNAL WALLS AND PARTITIONS, FLOORS, GALLERIES AND CEILINGS, SUSPENDED CEILINGS, INTERNAL FINISHES OF WALLS AND PARTITIONS, CEILING FINISHES** enabling the works to satisfy the essential requirements set out in annex 1 of the Directive, provided that barriers to trade in these products exist and that the products fall within the scope of article 2.1 of the Directive;

THE REST OF THE TEXT AS IN DOCUMENT "CONSTRUCT 95/132 Rev. 1*

(2) O.J N°C 62, 28.02.1994

EXTRACT FROM CONSTRUCT 95/132 Rev.1 (Structural bearings)

3. With regard to possible levels of requirements for the works, these are determined in the interpretative document or according to the procedure provided for in article 20 (2) of the Directive. In either of these cases, where levels of requirements for works are determined, guidance is given in Annex 3 to this mandate. This is not the case for classes of convenience, which are classes of product performances developed as a means of convenience for specifiers. manufacturers and purchasers. Such classes of convenience are not covered by the present mandate and should not be defined within the harmonised standard. Nevertheless, the results of the determination of the product characteristics may be expressed making use of classes of convenience introduced by European standards other than those developed under this and other similar mandates for harmonised standards. Articles 3.2 and 6.3 of CPD do not apply to such classes.

4. Harmonised standards including classifications where appropriate, should permit construction products which allow works to meet the essential requirements and which are produced and used lawfully in accordance with technical traditions warranted by local climatological and other conditions to continue to be placed on the market.

5. The purpose of the Directive is to remove barriers to trade, the standards deriving from it will therefore be expressed, as far as practicable in product performance terms (art. 7.2 of the Directive), having regard to the interpretative documents. Where this is not practicable, justification will be made in the Work Programme when it is presented to the Commission (see IV.1 and IV.2). As far as possible, each standard will make reference to performances common to other standards developed under mandate and which constitutes a cohesive and compatible group of European harmonised standards developed in parallel.

---

(2) O.J N°C 62, 28.02.1994

6. The work programme that CEN/CENELEC will develop in response to this mandate shall be a comprehensive one covering the complete package of product standards needed for the CE marking of the product. It will include the time scale for the publication of the complete package of harmonised standards and will refer as far as possible to horizontal standards which cover a number of different families of products and define the determination method of a given product performance.

III. STANDARDISATION MANDATE

With reference to the grounds given in section II and further provisions of the Directive, the European standard(s) set up under this mandate shall take account of the following:

1. Harmonised standards shall be prepared to allow those products listed in Annex 2 to be able to demonstrate in performance terms, for the satisfaction of the essential requirements. Further specific mandates will cover the remaining products within the list of annex 1.

2. The standard will contain:

- A detailed scope and field of application
- A detailed description of the family of products covered and the relevant intended uses of the different products.
- The definition of the characteristics of the products (expressed in performance terms) that are relevant to the satisfaction of the essential requirements as listed in Annex 2 of the mandate
- The methods (calculation, test methods or others) or a reference to an harmonised standard containing the methods for the determination of such characteristics
- Guidance on the characteristics that have to be stated within the labelling that will accompany the CE marking (depending on the intended use of the product) and on the way of expressing the determined values of these characteristics.
- The classification system and the levels for the above values of characteristics, if required by the mandate
- The system for attestation of conformity as required in annex 3 of the mandate and the corresponding specific provisions of evaluation of conformity.

Testing and/or calculation methods shall have, whenever possible, a horizontal character covering the widest possible range of products

3. This mandate replaces any provisional mandate on the same products formerly issued on a provisional base by the Commission. Some products have applications beyond the end uses covered by this mandate. Annex 1 identifies the other mandates under which such products fall.

4. As far as other directives are concerned, the relevant essential requirements are to be taken into account and will be indicated in the work programme, submitted for the final agreement of the Commission.

5. CEN/CENELEC shall ensure consistency within the whole package of standards in the field concerned.

6. As far as practicable and depending on the intended use, the standard shall include a definition of the durability in term of performance of the declared values of the product characteristics as well as suitable methods for its evaluation against the actions listed in Annex 2. Where appropriate the durability may be expressed in the standard by a conventional value without resorting to any test method. If the durability is expressed in terms of classes of periods, articles 3.2 and 6.3 will not apply.

7. Where a classification system of the product performances is envisaged in Annex 3 of the present mandate, CEN/CENELEC are requested to make an appropriate proposal.

8. The relevant systems for attestation of conformity according to Article 13.3 and Annex III of the Directive, are listed in annex 3. For the establishment of the corresponding specific provisions of evaluations of conformity, the harmonised standard will take into account:

   - the different intended uses of the product and, if any, the different levels of performance according to paragraph 7 above;
   - cases of individual (non series) production according to Article 13.5 of the Directive;
   - requirements of other directives.

9. The label accompanying the CE marking will list all the characteristics required by the mandates clearly distinguishing the characteristics to be declared for general uses from those relevant to specific uses of the product which are left to the free choice of the producer. Characteristics for which the "No performance determined" class applies are also listed in the labelling.

10. Where appropriate, Annex 4 contains the list of dangerous substances to be covered by the harmonised standard when defining their rate of release.

IV. EXECUTION OF THE MANDATE

1. CEN/CENELEC will present the Commission with a detailed proposal for the work programme, at the latest, by the end of January 1996.

2. This programme will include the list of standards considered necessary to ensure the fitness for use of the products covered by the mandate, in accordance with article 4.2 of the Directive.

   In this programme the title of each standard will be followed by:

   - a detailed description of the scope, the product characteristics and the intended uses covered by each standard,
   - the list of reference documents (national standards, ISO standards, prENs, ENs, research results, etc.),
   - the timetable for the development and the publication of the standard,
   - the identification of the Technical Committees responsible.

3. When a subject (e.g. test methods) is common to a number of products it will, as far as possible, be dealt with in a horizontal standard referring to a group or a family of products.

4. Within the programme, CEN/CENELEC will specify which aspects (characteristics, products, specific intended uses,....) among those indicated by the mandate are not yet covered by the programme and the relevant reasons. Products not specifically mentioned in the mandate but relevant to the family referred to may be also included in the programme. CEN/CENELEC will also specify those cases where the performance approach will not be followed in the harmonised standard and will give the relevant justification.

5. After examination of the programme and consultations with CEN/CENELEC, the Commission will endorse the timetable and the list of standards or parts of standards which meet the terms of this mandate and which will be recognised as harmonised standards.

6. When considered appropriate, the list of existing standards or standards under development that are not candidates for the status of harmonised standards but are relevant to the family of products covered by the mandate, may be annexed to the work programme.

7. Acceptance of this mandate by CEN/CENELEC is intended only after the work programme mentioned at point IV.1 has been endorsed by the Commission. The terms of reference of the mandate will be subject to possible modification or addition, if necessary.

8. Representatives of the authorities responsible for national regulations will be able to participate in the activities of CEN/CENELEC through their national delegations and to present their points of view at all stages of the drafting process.

9. The Commission may participate in standardisation activities as other observers and has the right to receive all relevant documents.

10. CEN/CENELEC will immediately inform the Commission of any problem relating to the carrying out of the mandate from within the Technical Committees and will present an annual progress report on work within the framework of the mandate.

11. The progress report will include a description of work carried out, and information on any difficulties being met, whether political or technical, with particular reference to those that might lead the authorities of a Member State to raise objections or to resort to article 5.1 of the Directive.

12. The progress report will be accompanied by the latest drafts of each standard under the mandate and by updated reports on any subcontracted work.

13. Acceptance of this mandate by CEN/CENELEC will initiate the standstill procedure referred to in article 7 of Council Directive 83/189/EEC of 28 March 1983 modified by Council Directive 88/182/EEC of 22 March 1988 and the European Parliament and the Council Directive 94/10/EC of 23 March 1994.

14. CEN/CENELEC will develop the draft harmonised European standards (prENs) in accordance with the appropriate work programme and will inform the Commission in good time that the draft is being circulated for public comment.

15. CEN/CENELEC will present the final drafts of the harmonised European standards to the Commission for confirmation of compliance with this mandate at the latest in accordance with the timetable agreed between CEN/CENELEC and the Commission and referred to in point IV.5.

16. CEN/CENELEC members will publish the standards transposing the harmonised European standards at the latest 6 months after a positive vote in CEN/CENELEC. National standards covering the same scope will continue to be applicable until the date agreed between CEN/CENELEC and the Commission in accordance with point IV.5.

GYPSUM PRODUCTS

ANNEX 1

SCOPE

GYPSUM PRODUCTS

LIST OF PRODUCTS COVERED BY THIS MANDATE

TO BE USED IN: 4/33: **EXTERNAL WALLS (INCLUDING CLADDING), INTERNAL WALLS AND PARTITIONS**

FORM	MATERIALS	PRODUCTS FOR CONSIDERATION
Bricks, blocks	gypsum	Blocks of gypsum,
Sections, bars Wire, mesh	metal	Metal lathing. beads and laths for rendering
Rigid sheets	plasterboard composites	Sheathing and linings of plasterboard Insulated plasterboard, composite panels (laminates) Plasterboard partition systems, fixed and demountable Plasterboard acoustic partition systems
Formless	plaster gypsum compounds	Plasters for rendering, Gypsum based ahesives, jointing compounds,

5/33: **FLOORS, GALLERIES, CEILINGS**

FORM	MATERIALS	PRODUCTS FOR CONSIDERATION
Sections, bars	metal	Ancillary products for gypsum products
Rigid sheets	plaster-board	Plasterboard sheets for ceilings.

10/33: **SUSPENDED CEILINGS**

FORM	MATERIALS	PRODUCTS FOR CONSIDERATION
Sections, bars	metal	Supporting sections, grid (usually steels aluminium or plastics)
Rigid sheets Rigid tiles	plaster/gypsum + organic fibres + inorg fibres and particles	Tiles, panels, planks (staff) Thermal insulating panels Acoustic panels

12/33: INTERNAL FINISHES OF WALLS AND PARTITIONS

FORM	MATERIALS	PRODUCTS FOR CONSIDERATION
Sections, bars	metal timber plastics	Metals timber and plastics supports to lining systems e.g. frames and battens Angle beads for plasterwork.
Thin coatings	gypsum plaster	Plaster for rendering
Rigid sheets	plasterboard + plastics + foil + insulating materials	Internal linings of plasterboards with thin laminations (including foil and plastics backed) Composite panels (laminates)

14/33: CEILING FINISHES

FORM	MATERIALS	PRODUCTS FOR CONSIDERATION
Sections, bars	metal plastics	Metals and plastics supports to lining systems e.g. frames and battens
Sections, bars	plaster plastics	Covings corners and other products for edge detail
Thin coatings	gypsum plaster	Render and plaster finishes
Rigid sheets	plasterboard + plastics + foil + insulating materials	Ceiling linings of plasterboards with thin laminations (including foil and plastics backed)
Rigid tiles	gypsum + organic fibres + inorganic fibres and particles	Ceilings tiles of precast plasters Acoustic tiles.

ANNEX 2

TECHNICAL TERMS OF REFERENCE

GYPSUM PRODUCTS

TO BE USED IN 04/33 - EXTERNAL WALLS (INCLUDING CLADDING), INTERNAL WALLS AND PARTITIONS
12/33 - INTERNAL FINISHES OF WALLS AND PARTITIONS

Family and subfamilies of products

GYPSUM PRODUCTS.

Products based on calcium sulphate. They may incorporate fibres, aggregates or other additives and they may contain pigments. Gypsum products are provided either as formed products (plasterbords, ceiling tiles,...) or as powders for mixing with water and application on site (e. g. gypsum plasters, floorscreeds,...). Included in these terms are also ancillary components for the gypsum products. Excluded is gypsum used as an extender for paints.

Plasterboards

Gypsum plasterboards

Building products composed of a plaster core encased in, and firmly bonded to strong, durable paper liners to form flat rectangular boards. These boards are intended to be used as vertical or horizontal lining in buildings and partitions, Boards may be designed to recieve either direct surface decoration (wallboard) or gypsum plaster finishes (baseboard).

Gypsum sheathing boards

Plasterboards applied to a timber framed or steel framed insulated external wall to prevent outside air flowing through the insulation. The sheathing is not directly exposed to external weather conditions as it is protected by means of a protective layer.

Gypsum plasterboard composite panels (laminates)

Panels made of an insulating board laminated with gypsum plasterboards on one or both faces, to be used for internal insulation (thermal and/or acoustic) of walls and ceilings. They are manufactured by the bonding of gypsum plasterboard to the following products: expanded polystyrene boards, extruded polystyrene boards, mineral wool boards (glass, slag, rock), polyurethane boards (polyisocyanate, polyisocyanurate), and water vapour retarder/barrier

Gypsum plasterboard with thin laminations

Plasterboards with thin ltaminations on the external surface used in partitions for decorative purposes, to provide additional characteristics (emissivity, acoustic absorption,...) or where moisture diffusion control is required.

Gypsum plasterboard prefabricated partition/panels

Prefabricated panels made of two gypsum plasterboard facings separated by, and bonded to, a celular paperboard core intended to be used as a lightweight partition for general use in buildings

Fibrous gypsum boards (staff)

Decorative elements, units and to specific configuration elements, required for architecture and/or by the needs of the various techniques, and used for decorative works; ceilings; encasements; wall and partition linings; structure for acoustic improvement (absorption, correction,...).

Preformed cornices

Preformed paper covered gypsum section with profiled face supported by shoulders

Jointing compounds for gypsum plasterboards

Compounds in powder or ready-mixed form for application directly to the plasterboard (bedding compound) with paper jointing tape, for application over the bedding compound as final finished surface (finishing compound) or suitable for both bedding and finishing (dual-purpose compound)

Gypsum based adhesives for plasterboards

Characteristics to be covered by the harmonized standard will be:

E.R.	Performance characteristics	Durability
1	- Shear strength *(for stiffening timber framed external walls)*	
2	- Reaction to fire*(for exposed situations)* - Fire resistance E and I *(for fire protection and/or compartmentation)(in end use conditions)*	
3	- Water vapour permeability *(for moisture diffusion control)*	
4	- Flexural tensile strength - Impact resistance *(for fire protection and/or compartmentation uses))*	
5	- Direct airborne sound insulation *(in end use conditions)* - Acoustic absorption *(for acoustic conditioning)*	
6	- Thermal resistance *(in end use conditions)*	

Gypsum Blocks

Gypsum Blocks

Gypsum units with smooth faces and designed for assembly with joints using a gypsum based adhesive for construction of non loadbearing partitions or self standing wall linings and for the protection of columns, lift shafts, etc. against fire, which can be finished by painting, papering, etc. without application of plastering.

Gypsum based adhesives for gypsum blocks

Characteristics to be covered by the harmonized standard will be:

E.R.	Performance characteristics	Durability
1		
2	- Reaction to fire *(for exposed situations)* - Fire resistance E and I *(for fire protection and/or compartmentation)(in end use conditions)*	
3		
4		
5	- Direct airborne sound insulation *(in end use conditions)*	
6	- Thermal resistance *(in end use conditions)*	

Ancillary products for plasterboards

Featured beads/profiles

Galvanised steel and aluminium beads (lining corner beads, lining stop beads and lining edging beads) for plasterboard partitions and wall and ceiling linings.

Metal framing components

Steel ceiling sections, internal and external corner sections, stud sections (boxed and spliced) and channels sections used to form the framework for gypsum plasterboard lined metal stud partitions and ceiling linings where the gypsum plasterboards conceal the metal framing and are secured to it by screws

Mechanical fasteners for plasterboard systems

Hardware such as nails, screws and staples that secure plasterboards to, primarily, timber and metal frames while permitting the surface of the plasterboard to be finished by jointing or plastering in order to provide a continuous surface to receive decoration. They provide stability to the system as well as contribution to its fire resistance and acoustic performance.

Characteristics to be covered by the harmonized standard will be:

E.R.	Performance characteristics	Durability
1		
2	- Reaction to fire *(for exposed situations)* - Fire resistance E and I *(for fire protection and compartmentation)(in end use conditions)*	
3		
4	- Flexural tensile strength	
5		
6		

Gypsum plasters

Gypsum based building plasters

Gypsum based plaster: Factory made mixture of gypsum binder and additives with or without aggregates

Characteristics of the hardened product to be covered by the harmonized standard will be:

E.R.	Performance characteristics	Durability
1		
2	- Reaction to fire *(for exposed situations)* - Fire resistance E and I *(for fire protection and/or compartmentation)(in end use conditions)*	
3		
4		
5	- Direct airborne sound insulation *(in end use conditions)*	
6	- Thermal resistance *(in end use conditions)*	

38

Ancillary products for plastering

Beads and laths for plastering

Characteristics to be covered by the harmonized standard will be:

E.R.	Performance characteristics	Durability
1		
2	- Reaction to fire *(for exposed situations)* - Fire resistance E and I *(for fire protection and/or compartmentation)(in end use conditions)*	
3		
4		
5		
6		

39

GYPSUM PRODUCTS

TO BE USED IN: 5/33 - FLOORS, GALLERIES, CEILINGS
10/33 - SUSPENDED CEILINGS
14/33 - CEILING FINISHES

Familiy and subfamilies of products

Plasterboards

Gypsum plasterboards

Building products composed of a plaster core encased in, and firmly bonded to strong, durable paper liners to form flat rectangular boards. These boards are intended to be used as vertical or horizontal lining in buildings, Boards may be designed to recieve either direct surface decoration (wallboard) or gypsum plaster finishes (baseboard).

Gypsum plasterboard composite panels (laminates)

Panels made of an insulating board laminated with gypsum plasterboards on one or both faces, to be used for internal insulation (thermal and or acoustic) of walls and ceilings. They are manufactured by the bonding of gypsum plasterboard to the following products: expanded polysterene boards, extruded polysterene boards, nineral wool boards (glass, slag, rock), polyurethane boards (polyisocyanate, polyisocyanurate), and water vapour retarder/barrier

Gypsum plasterboard with thin laminations

Plasterboards with thin laminations on the external surface used in partitions for decorative purposes, to provide additional characteristics or where moisture diffusion control is required.

Fibrous gypsumboards (staff)

Decorative elements, units and to specific configuration elements, required for architecture and/or by the needs of the various techniques, and used for decorative works; ceilings; encasements; wall and partition linings; structure for acoustic improvement (absorption, correction,...).

Jointing compounds for gypsum plasterboards

Compounds in powder or ready-mixed form for application directly to the plasterboard (bedding compound) with paper jointing tape, for application over the bedding compound as final finished surface (finishing compound) or suitable for both bedding and finishing (dual-purpose compound)

Gypsum based adhesives

40

Gypsum ceiling elements

Products manufactured from gypsum primary plaster and cast in factory. They may incorporate additives, aggregates and protected mineral fibre, tissue or glass fibre. They may be manufactured with reinforced (cohesion and rigidity provided by internal component) adges and profiles

Ceiling tiles

Square elements, with surface that may be plain, patterned or textured and may be perforated to improve sound absorption properties. When perforated, they may be backed with a protected mineral glass fibre

Ceiling units

Rectangular elements with a flat and smooth face with bevelled or rebated edges. They may may have reinforced rim edges and protruding ribs on the rough face.

Gypsum based adhesives

Characteristics to be covered by the harmonized standard will be:-

E.R.	Performance characteristics	Durability
1	- Shear strength *(for stiffening timber roofs truss structures)*	
2	- Reaction to fire *(for exposed situations)* - Fire resistance E and I *(for fire protection and/or compartmentation)(in end use conditions)*	
3	- Water vapour permeability *(for moisture diffusion control)*	
4	- Flexural tensile strength - Bond strength *(for adhesives)*	
5	- Direct airborne sound insulation *(in end use conditions)* - Acoustic absorption *(for acoustic conditioning)*	
6	- Thermal resistance *(in end use conditions)*	

Ancillary products for plasterboards and ceiling elements

Featured beads/profiles

Galvanised steel and aluminium beads (lining corner beads, lining stop beads and lining edging beads) for plasterboard partitions and wall and ceiling linings.

Metal framing components

Steel ceiling sections, internal and external corner sections, stud sections (boxed and spliced) and channels sections used to form the framework for gypsum plasterboard lined metal stud partitions and ceiling linings where the gypsum plasterboards conceal the metal framing and are secured to it by screws

Mechanical fasteners for plasterboard systems

Hardware such as nails, screws and staples that secure plasterboards to, primarily, timber and metal frames while permitting the surface of the plasterboard to be finished by jointing or plastering in order to provide a continuous surface to receive decoration. They provide stability to the system as well as contribution to its fire resistance and acoustic performance.

Characteristics to be covered by the harmonized standard will be:

E.R.	Performance characteristics	Durability
1		
2	- Reaction to fire *(for exposed situations)* - Fire resistance E and I *(for fire protection and/orcompartmentation)(in end use conditions)*	
3		
4	- Flexural tensile strength	
5		
6		

Gypsum plasters

Gypsum based building plasters

Gypsum based plaster: Mixture of gypsum binder and additives with or without aggregates

Characteristics of the hardened product to be covered by the harmonized standard will be:

E.R.	Performance characteristics	Durability
1		
2	- Reaction to fire *(for exposed situations)* - Fire resistance E and I *(for fire protection and/or compartmentation)(in end use conditions)*	
3		
4		
5	- Direct airborne sound insulation *(in end use conditions)*	
6	- Thermal resistance *(in end use conditions)*	

43

Ancillary products for plastering

Boards and laths for plastering

Characteristics to be covered by the harmonized standard will be:

E.R.	Performance characteristics	Durability
1		
2	- Reaction to fire *(for exposed situations)* - Fire resistance E and I *(for fire protection and/or compartmentation)(in end use conditions)*	
3		
4		
5		
6		

44

COMPREHENSIVE TABLE OF CHARACTERISTICS

GYPSUM PRODUCTS

E.R.	Performance characteristics	Walls and partitions					Ceilings					Durability
		Plaster boards (PB)	Blocks	PB ancillary	Plasters	Plaster ancillary	Plaster boards (PB)	Elements and units	PB ancillary	Plasters	Plaster ancillary	
1	- Shear strength *(for stiffening timber framed external walls and timber roofs truss structures)*	Y	-	-	-	-	Y	-	-	-	-	
2	- Reaction to fire Euroclasses*(for exposed situations)*	Y	Y	-	-	-	Y	Y	-	-	-	
	- Fire resistance. Integrity E *(for fire protection and/or compartmentation)(in end use conditions)*	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	- Fire resistance. Insulation I *(for fire protection and/or compartmentation)(in end use conditions)*	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
3	- Water vapour permeability *(for moisture diffusion control)*	Y	-	-	-	-	Y	Y	-	-	-	
4	- Flexural tensile strength	Y	Y	Y	-	-	Y	Y	Y	-	-	
	- Impact resistance *(for fire protection and/or compartmentation)*	Y	Y									
	- Bond strength *(for adhesives)*	-	-	-	-	-	Y	Y	-	-	-	
5	- Direct airborne sound insulation *(in end use conditions)*	Y	Y	-	Y	-	Y	Y	-	Y	-	
	- Acoustic absorption *(for acoustic conditioning)*	Y	-	-	-	-	Y	Y	-	-	-	
6	- Thermal resistance *(in end use conditions)*	Y	Y	-	Y	-	Y	Y	-	Y	-	

ANNEX 3

ATTESTATION OF CONFORMITY

Product family : **Gypsum products** (1/4)

1. Levels and classes for product performances

1.1 According to article 3.2 of the CPD and Clause 1.2.1 of the IDs, a classification of product performance has been identified as the means of expressing the range of requirement levels of the works in respect of **reaction to fire.**

CEN/CENELEC are requested to follow the Commission Decision 94/611/EC [O.J. L 241 of September 1994] and make reference to the standard(s) to be prepared under Commission mandate "Horizontal complement to the 33 mandates in respect of reaction to fire" in dealing with reaction to fire in the specific harmonised product standards to be developed under this mandate.

1.2 Reaction to fire is a risk for which the need for a classification system for products has been identified for the time being.

Further needs may be identified on the basis of differences specified in Article 3 (2) of the CPD, which are justified in conformity with Community law (IDs Clause 1.2.1). Where for such needs it is recognised that a classification of product performance is the means of expressing the range of requirement levels of the works, the Commission will give the appropriate guidance or will request CEN/CENELEC to make the appropriate proposal through a modification to this mandate.

2. Systems of attestation of conformity

For the product(s) and intended use(s) listed below, CEN/CENELEC are requested to specify the following system(s) of attestation of conformity in the relevant harmonised standard(s) :

Product(s)	Intended use(s)	Level(s) or class(es) *(Reaction to fire)* (***)	Attestation of conformity system(s)
Plasterboards and **ceiling elements with thin laminations, fibrous gypsum boards,** and **composite panels (laminates)** in which the incorporated material is placed on a face susceptible to be exposed to fire, including relevant **ancillary products**	in walls, partitions or ceilings (or lining thereof) subject to reaction to fire requirements	(of incorporated materials) A - B - C (*)	1
		A - B - C (**)	3
		D - E - F	4
System 1: See CPD Annex III.2.(i), without audit-testing of samples System 3: See CPD Annex III.2.(ii), Second possibility System 4: See CPD Annex III.2.(ii), Third possibility			

3. Conditions to be applied by CEN on the specifications of the attestation of conformity system

3.1 The specification for the system should be such that it can be implemented even where performance does not need to be determined for a certain characteristic, because at least one Member State has no legal requirement at all for such characteristic [*see Article 2.1 of the CPD and, where applicable, clause 1.2.3 of the Interpretative Documents*]. In those cases the verification of such a characteristic must not be imposed on the manufacturer if he does not wish to declare the performance of the product in that respect.

3.2 Regarding products fitting under system 1 and system 3, for the initial type testing of the product (to be required by the manufacturer in the case of system 3) [see Annex III.1.a) of the CPD] the task for the approved laboratory will be limited to the assessment of the following characteristics :

Euroclasses characteristics for reaction to fire *(of the materials used in the product)* as indicated in the Decision of the Commission 94/611/EC.

3.3 Regarding products under system 1, for the certification of the factory production control and for its initial inspection, only parameters related to the following characteristics shall be of the interest of the approved body:

Euroclasses characteristics for reaction to fire *(of the materials used in the product)* as indicated in Commission Decission 94/611/EC

(*) Materials under classes A, B or C for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials) or has been altered by means of incorporating certain agents, like fire retarders.

(**) Materials under classes A, B or C for which the reaction to fire performance is not susceptible to change during the production process (In general, those made with non-combustible raw materials)

(***) For reaction to fire, Commission Decision 94/611/EC

The certification of the product will only concern the reaction to fire performance of the materials used in the product.

Product family : **Gypsum products** (2/4)

1. Levels and classes for product performances

1.1 According to article 3.2 of the CPD and Clause 1.2.1 of the IDs, a classification of product performance has been identified as the means of expressing the range of requirement levels of the works in respect of **resistance to fire**. The relevant classification system is indicated in the interpretative document n°2 for each product.

CEN/CENELEC are requested to follow the interpretative document guidance and make reference to the standard(s) to be prepared under Commission mandate "Horizontal complement to the 33 mandates in respect of resistance to fire" in dealing with resistance to fire in the specific harmonised product standards to be developed under this mandate.

1.2 Resistance to fire is the only risk for which the need for a classification system for products has been identified for the time being.

Further needs may be identified on the basis of differences specified in Article 3 (2) of the CPD, which are justified in conformity with Community law (IDs Clause 1.2.1). Where for such needs it is recognised that a classification of product performance is the means of expressing the range of requirement levels of the works, the Commission will give the appropriate guidance or will request CEN/CENELEC to make the appropriate proposal through a modification to this mandate.

2. Systems of attestation of conformity

For the product(s) and intended use(s) listed below, CEN/CENELEC are requested to specify the following system(s) of attestation of conformity in the relevant harmonised standard(s) :

Product(s)	Intended use(s)	Level(s) or class(es) *(Resistance to fire)*	Attestation of conformity system(s)
Plasterboards, blocks, ceiling elements and **gypsum plasters,** including relevant **ancillary products**	in walls, partitions or ceilings, as relevant, intended for fire protection of structural elements and/or fire compartmentation in buildings	Any	3
System 3: See CPD Annex III.2.(ii), Second possibility			

3. Conditions to be applied by CEN on the specifications of the attestation of conformity system

3.1 The specification for the system should be such that it can be implemented even where performance does not need to be determined for a certain characteristic, because at least one Member State has no legal requirement at all for such characteristic [*see Article 2.1 of the CPD and, where applicable, clause 1.2.3 of the Interpretative Documents*]. In those cases the verification of such a characteristic must not be imposed on the manufacturer if he does not wish to declare the performance of the product in that respect.

3.2 Regarding the initial type testing of the product to be required by the manufacturer [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- **Euroclasses characteristics for reaction to fire** as indicated in the Commission Decision 94/611/EC
- **Resistance to fire: Insulation I and Integrity E**

Product family : **gypsum products** (3/4)

1. Levels and classes for product performances

1.1 For the time being, the differences specified in Article 3 (2) of the CPD, do not seem to give rise to the need of a classification system for products.

Where for such needs it is recognised that a classification of product performance is the means of expressing the range of requirement levels of the works, the Commission will give the appropriate guidance or will request CEN/CENELEC to make the appropriate proposal through a modification to this mandate.

2. Systems of attestation of conformity

2.1 For the product(s)and intended use(s) listed below, CEN/CENELEC are requested to specify the following system(s) of attestation of conformity in the relevant harmonised standard(s) :

Product(s)	Intended use(s)	Level(s) or class(es)	Attestation of conformity system(s)
Plasterboards, including relevant **ancillary products**	for stiffening timber-framed windloadbearing walls or timber roofs truss structures	---	3
System 3: See CPD Annex III.2.(ii), Second possibility			

3. Conditions to be applied by CEN on the specifications of the attestation of conformity system

3.1 The specification for the system should be such that it can be implemented even where performance does not need to be determined for a certain characteristic, because at least one Member State has no legal requirement at all for such characteristic [*see Article 2.1 of the CPD and, where applicable, clause 1.2.3 of the Interpretative Documents*]. In those cases the verification of such a characteristic must not be imposed on the manufacturer if he does not wish to declare the performance of the product in that respect.

3.2 Regarding the initial type testing of the product to be required by the manufacturer [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

Shear strength

Product family : **gypsum products** (4/4)

1. Levels and classes for product performances

1.1 For the time being, the differences specified in Article 3 (2) of the CPD, do not seem to give rise to the need of a classification system for products.

Where for such needs it is recognised that a classification of product performance is the means of expressing the range of requirement levels of the works, the Commission will give the appropriate guidance or will request CEN/CENELEC to make the appropriate proposal through a modification to this mandate.

2. Systems of attestation of conformity

2.1 For the product(s)and intended use(s) listed below, CEN/CENELEC are requested to specify the following system(s) of attestation of conformity in the relevant harmonised standard(s) :

Product(s)	Intended use(s)	Level(s) or class(es)	Attestation of conformity system(s)
Plasterboards, blocks, ceiling elements and plasters, including **relevant ancillary products**	in walls, partitions or ceilings, as relevant, for situations and uses not mentioned in (1/4), (2/4) or (3/4)	---	4
System 4: See CPD Annex III. 2;(ii), Third possibility			

3. Conditions to be applied by CEN on the specifications of the attestation of conformity system

3.1 The specification for the system should be such that it can be implemented even where performance does not need to be determined for a certain characteristic, because at least one Member State has no legal requirement at all for such characteristic [*see Article 2.1 of the CPD and, where applicable, clause 1.2.3 of the Interpretative Documents*]. In those cases the verification of such a characteristic must not be imposed on the manufacturer if he does not wish to declare the performance of the product in that respect.