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

M/103

Brussels, 7.09.1994

CONSTRUCT 94/125

MANDATE TO CEN/CENELEC CONCERNING THE EXECUTION OF STANDARDISATION WORK ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR FLOOR BEDS (INCLUDING SUSPENDED GROUND FLOORS), ROADS AND OTHER TRAFFICKED AREAS

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one 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.

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[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 are not expected to impose limitations or prescriptions (such as end uses, minimum values of characterisitcs, method of production or installation) but should focus on the definitions of the CPD related characteristics, on the relevant methods of determination (by calculation, testing,...) and, if needed, the classification system 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 accompaning the CE marking which will contain the values of the characteristics of the product on the basis of the technical specifications.
Only in the case of a general agreement of Member States (expressed by positive vote under the article 20 procedure) for a minimum or a maximum level of a given characteristic that has to be met by family of products or a product, may such a requirement be identified by the harmonised standard (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 **FLOOR BEDS (INCLUDING SUSPENDED GROUND FLOORS), ROADS AND OTHER TRAFFICKED AREAS** 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;

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,

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[2] O.J N°C 62, 28.02.1994

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 III.2 and IV.1). 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.

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 I 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 November 1994.

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 III.7 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 ion 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.

ANNEX I

CONSTRUCT 94/122/1-33

LIST OF PRODUCTS COVERED BY MANDATE 1/33

FAMILIES OF PRODUCTS				PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)
	FORM		MATERIALS	
F	Bricks, blocks	e	stone	Paviors and flags of stone, cast stone, clay, glass. Including kerbs
		f	concrete, cast stone	
		g	clay	
		o	glass	
G	Large units (structural)	f	concrete	Precast concrete units, including reinforced
H	Sections, bars	i	timber	Timber sections and planks for suspended ground floors
H	Section, bars	n	plastics	Water bars, water stops
H	Sections, bars	h	metal	Metal reinforcement for concrete
J	Wire, mesh			Soil reinforcement, geogrids
K	Quilts	* j	organic fibres	Thermal insulation quilts or boards of plastics or fibres. Void Formers
R	Rigid sheets	* m	inorganic fibres and particles	
Y	Formless	* n	plastics (foamed)	
		* o	glass (foamed)	
L	Flexible sheets	* n	plastics	Damp proof membranes, barriers to water vapour and other gases or vapours. Basement tanking.
		* s	bitumen	
		* y	composites	
L	Flexible sheets	j	org fibre	Separating membranes
		m	inorg fibre	Geosynthetics (membranes and textiles)
		n	plastics	Drainage membranes
P	Thin coatings	n	polymeric	Liquid applied damp proofing compounds and barriers to water vapour and other gases or vapours. Basement tanking.
		s	bituminous	
R	Rigid sheets	i	timber	Flooring of fibre and particle board
R	Rigid sheets	i	metal	Trench sheeting
Y	Formless	q	concrete	Readymix concrete cast in situ
		(u	admixtures)	Concrete admixtures
Y	Formless	s	bituminous	Asphalt, tar Macadam, etc.
Y	Formless	p	aggregates, loose fill	Fills for ground work
Y	Formless	q	cement, binders	Products for pressure grounting and soil stabilisation
Y	Formless	t	fixing, jointing	Joint fillers and seals
X	Components	m	inorganic fibre	Band and wick drains
		n	plastics	
X	Components	*q	concrete	Steel or concrete prefabricated culverts.
		* h	metal	

ANNEX 2

EXPLANATORY NOTE

The information given in the following tables constitutes the basis for the technical terms of reference for the mandate. In general it is expected that the products grouped together under a framed sub-heading will be covered by only one harmonised European standard. Within this one standard, however, certain products may have specific additional characteristics. These, where they exist, are identified in the table with additional code numbers preceded by "+".

All the characteristics identified in the list of this annex are supposed to result from the regulations of at least one Member State. They will have to be covered by the harmonised standards taking into account individual products and their intended uses. Characteristics listed in the Interpretative Documents (IDs) for which at present there is no evidence of existing regulations in Member States have not been included.

The characteristics are grouped according to the IDs under which they come. Each box in the tables represents one ID. In all lists the same terminology has been adopted for the characteristics. Although each list of characteristics relates to a group or family of products, not all characteristics apply to all products in the group. Which characteristics apply to which products and, in some cases, to which intended use are identified by the codes associated with the name of the family or of the single product.

Those characteristics directly related to the essential requirements (ERs) appear at the top of each table and are identified by their code number being in a shaded box. Certain other characteristics are not directly related to the ERs but are required to ensure, after handling and installation for example, the stated values of the characteristics made about the product. These appear lower in each box and do not have their code number shaded.

Durability of harmonised characteristics is required by article 3.1 of the CPD, even if not directly covered by existing National Regulations. Therefore the durability of relevant characteristics against specific actions is included at the bottom of each table and has to be covered (even if only with conventional values) by the harmonised standards. Nevertheless, no classes under article 3.2 and 6.3 (*regulatory classes*) are allowed.

A large part of the listed characteristics, for all or for specific uses, are not covered by the regulations of at least one country (no performance required). In this case the CE marking of the product need not necessarily state the values of these characteristics and if it does not do so, the product will be able to be used in those countries that do not require such characteristics.

The terminology used for the characteristics does not intend to give precise guidance on the parameter to be considered in the standard for a given product or test method. It is left to CEN/CENELEC to interpret the Commission requirements in respect of the implementation of, whenever possible, the horizontal approach. An example of this is thermal resistance. The standardisation bodies might express this aspect of performance as conductivity, resistance, density, etc, despite the indication of thermal resistance in the table. Concerning structural performances, both verification by calculation and by testing have been considered. When relevant, they should both be covered in the harmonised standard.

The lists do not detail the substances that have to be considered as dangerous in respect of the essential requirement "health and safety". The complexity of the national regulations require a significant effort to identify those substances that may cause undesirable health effects.
Annex IV of this mandate will indicate as soon as possible, those substances that have to be taken into account by CEN/CENELEC in the relevant product standards when the mandate identifies rate of release of dangerous substances. In this mandate dangerous substances are taken to mean those substances that cause unacceptable health effects relevant to the risks identified in ID 3.

Annex 2

Mandate 1: floor beds (including suspended ground floors), roads and other trafficked areas. 8 September, 1994

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 1

PRODUCTS USED FOR FLOOR BEDS (INCLUDING SUSPENDED GROUND FLOORS), ROADS AND OTHER TRAFFICKED AREAS

Form	Materials	Title	Related charact.
K Quilts R Rigid sheets	j organic fibres m inorganic fibres and particles n plastics (foamed) o glass (foamed)	**THERMAL INSULATING PRODUCTS:** Factory made products Characteristics covered by the harmonised standard will be: **water permeability** *(only when the product is intended also for water resistant applications)*, **thermal resistance, compressive strength** *(for loadbearing applications)*, **flexural/tensile strength** *(for handling and installation)*, as well as the **durability of thermal resistance and compressive strength against ageing/degradation.**	33d, 61a, 63a, 63b, D8
		Additional characteristics for specific products: - Wood wool products, Wood fibres products, Cork **durability of thermal resistance and compressive strength against biological agents**	+D3
		- Foam glass **durability of thermal resistance and compressive strength against freeze-thaw**	+D7

NB: - Specifications relevant to thermal insulation aspects shall refer to horizontal test methods.
- The values of the characteristics for fire resistance and reaction to fire are determined under the relevant exposures/actions listed in Interpretative Document n°2.
- The standards shall refer to products installed in accordance with the instructions of the producer and have to cover any product already existing on the market and legally used.

	Characteristics to be in the harmonised standards
21a	- Reaction to fire * Euroclasses characteristics
22g 22h 22i	- Reaction / Resistance to fire *(for roofs in end use conditions)* * penetration * spread of flame * flaming droplets/particles
33d	- Water permeability *(only when the product is intended also for water resistant applications)*
34f	- Rate of release of dangerous substances *(only for indoor impact)*
51b 51c 51g	*(only when the product is intended also for acoustic insulation applications)* - Direct airborne sound insulation index - Acoustic absorption index - Impact noise transmission index *(for floors)*
61a 61c 63a 63b 65a	- Thermal resistance - Water vapour permeability - Compressive strength *(for loadbearing applications)* - Flexural / tensile strength *(for handling and installation)* - Rate of release of corrosive substances *(only when the product is intended to be used in contact with metals)*
D3 D4 D6 D7 D8 D13 D14	- Durability of (21a), (22g, h, i) and (61a) against: * biological agents *(only for wood-based panels)* * UV *(only for exposed applications)* * weathering *(only for exposed applications)* * freeze-thaw * ageing/degradation * heat * high temperature
D8	- Durability of (63a) against: * ageing/degradation

Form	Materials	Title	Related charact.
Y Formless	j organic fibres m inorganic fibres and particles n plastics (foamed)	**THERMAL INSULATING PRODUCTS: In-situ formed products** Characteristics covered by the harmonised standard will be: **water permeability** *(only when the product is intended also for water resistant applications)*, **thermal resistance, compressive strength** *(for loadbearing applications)*, as well as the **durability of thermal resistance and compressive strength against degradation/ageing.**	33d, 61a, 63a, D8

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ANNEX 3

Product family : Thermal insulating products (1/1)

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: Classes A, B, C, D, E and F

CEN/CENELEC are requested to follow the Commission Decision [O.J. ....] 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 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

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

Product	Intended use	Level/s or class/es *(Reaction to fire)*	Attestation of conformity system
All factory made and in situ formed **thermal insulating products**	Any	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			

(*) Materials for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials)

(**) Materials 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)

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 the "no performance determined" case, 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 [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 21a **Euroclasses characteristics for reaction to fire** as indicated in the decision of the Commission.....

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

Brussels, 7.09.1994

MANDATE TO CEN/CENELEC CONCERNING THE EXECUTION OF STANDARDISATION WORK ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR FOUNDATIONS AND RETAINING WALLS

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one 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 :

.../...

For the remaining part of the text of this mandate, please refer to mandate 1/33 and replace the relevant annexes with the following pages.

ANNEX 1

CONSTRUCT 94/122/2-33

LIST OF PRODUCTS COVERED BY MANDATE 2/33

FAMILIES OF PRODUCTS				PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)
	FORM		MATERIALS	
F	Bricks, blocks	e	stone	Bricks and blocks of stone, clay, concrete
		f	concrete, cast stone	
		g	clay	
G	Large units	* f	precast concrete	Precast concrete units, including reinforced. Ground beams. Precast retaining walls. Diaphragm walling systems. Crib walling.
H	Sections and bars	h	metal	Steel bars, wire, or mesh reinforcement.
J	Wire, mesh			
K	Quilts	* j	organic fibres	Thermal insulation quilts or boards of plastics or fibres.
R	Rigid sheets	* m	inorganic fibres and particles	Void Formers
		* n	plastics (foamed)	
		* o	glass (foamed)	
L	Flexible sheets	n	plastics	Geosynthetics (membranes and textiles)
L	Flexible sheets	m	plastics	Damp proof membranes, barriers to water vapour and other gases or vapours. Basement tanking.
		s	bitumen	
		y	composites	
P	Thick coatings	n	polymeric	Liquid applied damp proofing compounds and barriers to water vapour and other gases or vapours. Basement tanking.
V	Thin coatings	q	cementitious	
		s	bituminous	
S	Rigid tiles	g	clay	Tanking tiles (with adhesive)
		q	concrete	
X	Components	q	concrete	Rock bolts, soil pins, ground anchors.
		h	metal	
Y	Formless	q	concrete	Readymix concrete cast in situ
		(u	admixtures)	Concrete admixtures

ANNEX 2

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 2

PRODUCTS USED FOR FOUNDATIONS AND RETAINING WALLS

Form	Materials	Title	Related charact.
K Quilts R Rigid sheets	j organic fibres m inorganic fibres and particles n plastics (foamed) o glass (foamed)	**THERMAL INSULATING PRODUCTS: Factory made products** **Characteristics covered by the harmonised standard will be: water permeability *(only when the product is intended also for water resistant applications)*, thermal resistance, compressive strength *(for loadbearing applications)*, flexural/tensile strength *(for handling and installation)*, as well as the durability of thermal resistance and compressive strength against ageing/degradation.**	33d, 61a, 63a, 63b, D8

NB: - Specifications relevant to thermal insulation aspects shall refer to horizontal test methods.
- The values of the characteristics for fire resistance and reaction to fire are determined under the relevant exposures/actions listed in Interpretative Document n°2.
- The standards shall refer to products installed in accordance with the instructions of the producer and have to cover any product already existing on the market and legally used.

Characteristics to be in the harmonised standards	
21a	- Reaction to fire * Euroclasses characteristics
22g 22h 22i	- Reaction / Resistance to fire *(for roofs in end use conditions)* * penetration * spread of flame * flaming droplets/particles
33d	- Water permeability *(only when the product is intended also for water resistant applications)*
34f	- Rate of release of dangerous substances *(only for indoor impact)*
51b 51c 51g	*(only when the product is intended also for acoustic insulation applications)* - Direct airborne sound insulation index - Acoustic absorption index - Impact noise transmission index *(for floors)*
61a 61c 63a 63b 65a	- Thermal resistance - Water vapour permeability - Compressive strength *(for loadbearing applications)* - Flexural / tensile strength *(for handling and installation)* - Rate of release of corrosive substances *(only when the product is intended to be used in contact with metals)*
D3 D4 D6 D7 D8 D13 D14	- Durability of (21a), (22g, h, i) and (61a) against: * biological agents *(only for wood-based panels)* * UV *(only for exposed applications)* * weathering *(only for exposed applications)* * freeze-thaw * ageing/degradation * heat * high temperature
D8	- Durability of (63a) against: * ageing/degradation

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ANNEX 3

Product family : Thermal insulating products (1/1)

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: Classes A, B, C, D, E and F

CEN/CENELEC are requested to follow the Commission Decision [O.J. ....] 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 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

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

Product	Intended use	Level/s or class/es *(Reaction to fire)*	Attestation of conformity system
All factory made and in situ formed **thermal insulating products**	Any	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			

(*) Materials for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials)

(**) Materials for which the reaction to fire performance is not susceptible to change during the production process

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 the "no performance determined" case, 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 [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 21a **Euroclasses characteristics for reaction to fire** as indicated in the decision of the Commission.....

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

Brussels, 7.09.1994

MANDATE TO CEN/CENELEC CONCERNING THE EXECUTION OF STANDARDISATION WORK ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR EXTERNAL WALLS (INCLUDING CLADDING), INTERNAL WALLS AND PARTITIONS

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one 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 :

.../...

For the remaining part of the text of this mandate, please refer to mandate 1/33 and replace the relevant annexes with the following pages.

ANNEX I

CONSTRUCT 94/122/4-33

LIST OF PRODUCTS COVERED BY MANDATE 4/33

FAMILIES OF PRODUCTS				PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)
FORM		MATERIALS		
F	Bricks, blocks	e f g o	stone concrete, (cast stone) clay glass	Masonry - bricks and blocks of stone, clay, calcium silicate, gypsum, glass, cast stone, concrete (dense, cellular, lightweight, aac, no fines, breeze, clinker). Insulation filled, insulation faced blocks. Include special shapes eg. coping blocks.
G	Large units	e * f	stone precast concrete cast stone	Stone and concrete lintels, Copings.
G	Large units	* f h i n o	precast concrete metal timber plastic glass	Cladding panels, loadbearing wall elements and systems of precast concrete (inc. grc), profiled metal, timber composites, plastics (inc. grp), glass Curtain walling systems Patent glazing systems Insulated sandwich panels
H J	Sections, bars Wire, mesh	h	metal	Metal reinforcement : bars, mesh, metal lathing. Bed joint reinforcement.
H	Sections, bars	h i	metal timber	Framing for walling systems Timber frame walls Metal lintels, copings.
K R Y	Quilts Rigid sheets Formless	* j * o * m * n	organic fibres glass (foamed) inorganic fibres and particles plastics (foamed)	Thermal (and sound) insulation quilts, boards or loose fills of plastics or fibres. Laminated plastics insulation
L	Flexible sheets	* m * s * h	plastics bitumen metal	Vapour barriers, checks Damp proof courses, membranes Flashings, copings, cavity trays. Gaskets and sealants
R	Rigid sheets	i f y	timber (plywood and fibre particle board) plasterboard composites	Sheating and linings of plywood, fibre and particle board, plasterboard, insulated plasterboard, fibre reinforced sheets Partition systems, fixed and demountable Acoustic partition systems
V	Thin coatings, impregnation	m s	plastics bitumen	Liquid applied damp proofing compounds
Y	Formless	q (u	concrete admixtures)	Concrete cast in situ, readymix concrete, concrete admixtures
Y	Formless	q (u	mortar admixtures)	Cement for mortars, opc, hac, rapid hardening, sulphate resistant, masonry cement Mortar admixtures. Resin based mortars
X	Components	m h	plastics metal	Wall ties. Fixings. Support and restraint systems : channels and brackets, hangers, shelf angles, straps, wall extension profiles. Cavity closers. Ventilators.

ANNEX 2

Mandate 4: External walls, internal walls and partitions. 8 September, 1994

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 4

PRODUCTS USED FOR EXTERNAL WALLS, INTERNAL WALLS AND PARTITIONS

Form	Materials	Title	Related charact.
K Quilts R Rigid sheets	j organic fibres m inorganic fibres and particles n plastics (foamed) o glass (foamed)	**THERMAL INSULATING PRODUCTS: Factory made products** Characteristics covered by the harmonised standard will be: **reaction to fire, water permeability** *(only when the product is intended also for water resistant applications)*, **direct airborne sound insulation index** and **acoustic absorption index** *(only when the product is intended also for acoustic insulation applications)*, **thermal resistance, water vapour permeability, flexural/tensile strength** *(for handling and installation)* **as well as the durability of reaction to fire and thermal resistance against ageing/degradation.** Additional characteristics for specific products: - Wood wool products, Wood fibres products, Cork **durability of thermal resistance and compressive strength against biological agents** +D3 - Foam glass **durability of thermal resistance and compressive strength against freeze-thaw** +D7	21a, 33d, 51b, 51c, 61a, 61c, 63b, D8

NB: - Specifications relevant to thermal insulation aspects shall refer to horizontal test methods.
- The values of the characteristics for fire resistance and reaction to fire are determined under the relevant exposures/actions listed in Interpretative Document n°2.
- The standards shall refer to products installed in accordance with the instructions of the producer and have to cover any product already existing on the market and legally used.

Characteristics to be in the harmonised standards	
21a	- Reaction to fire * Euroclasses characteristics
	- Reaction / Resistance to fire *(for roofs in end use conditions)*
22g	* penetration
22h	* spread of flame
22i	* flaming droplets/particles
33d	- Water permeability *(only when the product is intended also for water resistant applications)*
34f	- Rate of release of dangerous substances *(only for indoor impact)*
	(only when the product is intended also for acoustic insulation applications)
51b	- Direct airborne sound insulation index
51c	- Acoustic absorption index
51g	- Impact noise transmission index *(for floors)*
61a	- Thermal resistance
61c	- Water vapour permeability
63a	- Compressive strength *(for loadbearing applications)*
63b	- Flexural / tensile strength *(for handling and installation)*
65a	- Rate of release of corrosive substances *(only when the product is intended to be used in contact with metals)*
	- Durability of (21a), (22g, h, i) and (61a) against:
D3	* biological agents *(only for wood-based panels)*
D4	* UV *(only for exposed applications)*
D6	* weathering *(only for exposed applications)*
D7	* freeze-thaw
D8	* ageing/degradation
D13	* heat
D14	* high temperature
	- Durability of (63a) against:
D8	* ageing/degradation

Form	Materials	Title	Related charact.
Y Formless	j organic fibres m inorganic fibres and particles n plastics (foamed)	**THERMAL INSULATING PRODUCTS: In-situ formed products**	21a, 33d, 51b, 51c, 61a, 61c, D8
		Characteristics covered by the harmonised standard will be: **reaction to fire, water permeability** *(only when the product is intended also for water resistant applications)*, **direct airborne sound insulation index and acoustic absorption index** *(only when the product is intended also for acoustic insulation applications)*, **thermal resistance, water vapour permeability** as well as the **durability of reaction to fire and thermal resistance against degradation/ageing.**	
		Additional characteristics for specific products: - **Rigid urea formaldehyde foam** **rate of release of dangereous substances** *(only for indoor impact)*	+34f

ANNEX 3

Product family : Thermal insulating products (1/1)

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: Classes A, B, C, D, E and F

CEN/CENELEC are requested to follow the Commission Decision [O.J. ....] 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 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

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

Product	Intended use	Level/s or class/es *(Reaction to fire)*	Attestation of conformity system
All factory made and in situ formed **thermal insulating products**	Any	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			

(*) Materials for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials)

(**) Materials for which the reaction to fire performance is not susceptible to change during the [illegible]

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 the "no performance determined" case, 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 [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 21a **Euroclasses characteristics for reaction to fire** as indicated in the decision of the Commission.....

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

Brussels, 7.09.1994

MANDATE TO CEN/CENELEC CONCERNING THE EXECUTION OF STANDARDISATION WORK ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR FLOORS, GALLERIES, CEILINGS

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one 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 :

.../...

For the remaining part of the text of this mandate, please refer to mandate 1/33 and replace the relevant annexes with the following pages.

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ANNEX 1

CONSTRUCT 94/122/5-33

LIST OF PRODUCTS COVERED BY MANDATE 5/33

FAMILIES OF PRODUCTS				PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)
	FORM		MATERIALS	
G	Large units (Structural)	* f	precast concrete	Precast concrete slabs and beams, including beam and block systems, prestressed or reinforced hollow core elements, ribbed floor elements, floor slats.
H	Sections, bars	h	metal	Wood wool slab decking.
		i	timber (inc glulam)	Reinforced concrete plank, pre-stressed concrete plank. Metal sections for structural support. Timber sections for structural support and planks for flooring.
K	Quilts	* j	org. fibres	Sound (and thermal) insulation quilts or boards of fibres or foamed plastics. Includes insulation laminated to rigid decking sheets.
R	Rigid sheets	* m	inorganic fibres and particles	
Y	Formless	* n	plastics (foamed)	
		* o	glass (foamed)	
R	Rigid sheets	h	metal	Metal decking.
		i	timber	Ply and particle/fibre board decking.
R	Rigid sheets	f	plaster-board	Plasterboard sheet for ceilings.
Y	Formless	q	concrete	Concrete cast in situ, readymix concrete, concrete admixtures.
		(u	admixtures)	

ANNEX 2

Mandate 5: Floors, galleries, ceilings, etc. 8 September, 1994

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 5

PRODUCTS USED FOR FLOORS, GALLERIES, CEILINGS

Form	Materials	Title	Related charact.
R Rigid sheets	m inorganic fibres and particles n plastics (foamed) o glass (foamed)	**THERMAL INSULATING PRODUCTS: Factory made products** Characteristics covered by the harmonised standard will be: **reaction to fire, direct airborne sound insulation index, acoustic absorption index and impact noise transmission index** *(only when the product is intended also for acoustic insulation applications)*, **thermal resistance, compressive strength** *(for loadbearing applications)*, **flexural/tensile strength** *(for handling and installation)*, as well as the **durability of reaction to fire, thermal resistance and compressive strength against ageing/degradation.** Additional characteristics for specific products: - Wood wool products, Wood fibres products **durability of reaction to fire and thermal resistance against biological agents**	21a, 51b, 51c, 51g, 61a, 63a, 63b, D8 +D3

NB: - Specifications relevant to thermal insulation aspects shall refer to horizontal test methods.
- The values of the characteristics for fire resistance and reaction to fire are determined under the relevant exposures/actions listed in Interpretative Document n°2.
- The standards shall refer to products installed in accordance with the instructions of the producer and have to cover any product already existing on the market and legally used.

Characteristics to be in the harmonised standards	
21a	- Reaction to fire * Euroclasses characteristics
	- Reaction / Resistance to fire *(for roofs in end use conditions)*
22g	* penetration
22h	* spread of flame
22i	* flaming droplets/particles
33d	- Water permeability *(only when the product is intended also for water resistant applications)*
34f	- Rate of release of dangerous substances *(only for indoor impact)*
	(only when the product is intended also for acoustic insulation applications)
51b	- Direct airborne sound insulation index
51c	- Acoustic absorption index
51g	- Impact noise transmission index *(for floors)*
61a	- Thermal resistance
61c	- Water vapour permeability
63a	- Compressive strength *(for loadbearing applications)*
63b	- Flexural / tensile strength *(for handling and installation)*
65a	- Rate of release of corrosive substances *(only when the product is intended to be used in contact with metals)*
	- Durability of (21a), (22g, h, i) and (61a) against:
D3	* biological agents *(only for wood-based panels)*
D4	* UV *(only for exposed applications)*
D6	* weathering *(only for exposed applications)*
D7	* freeze-thaw
D8	* ageing/degradation
D13	* heat
D14	* high temperature
	- Durability of (63a) against:
D8	* ageing/degradation

Form	Materials	Title	Related charact.
Y Formless	j organic fibres m inorganic fibres and particles n plastics (foamed)	**THERMAL INSULATING PRODUCTS: In-situ formed products** Characteristics covered by the harmonised standard will be: **reaction to fire, direct airborne sound insulation index, acoustic absorption index and impact noise transmission index** *(only when the product is intended also for acoustic insulation applications)*, **thermal resistance, compressive strength** *(for loadbearing applications)*, **flexural/tensile strength** *(for handling and installation)*, as well as the **durability of reaction to fire, thermal resistance and compressive strength against ageing/degradation.** Additional characteristics for specific products: - **Rigid urea formaldehyde form** **Rate of release of dangerous substances** *(only for indoor impact)*	21a, 51b, 51c, 51g, 61a, 63a, 63b, D8 +34f

ANNEX 3

Product family : Thermal insulating products (1/1)

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: Classes A, B, C, D, E and F

CEN/CENELEC are requested to follow the Commission Decision [O.J. ....] 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 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

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

Product	Intended use	Level/s or class/es *(Reaction to fire)*	Attestation of conformity system
All factory made and in situ formed **thermal insulating products**	Any	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			

(*) Materials for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials)

(**) Materials for which the reaction to fire performance is not susceptible to change during the production process

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 the "no performance determined" case, 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 [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 21a **Euroclasses characteristics for reaction to fire** as indicated in the decision of the Commission.....

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

Brussels, 7.09.1994

MANDATE TO CEN/CENELEC CONCERNING THE EXECUTION OF STANDARDISATION WORK ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR ROOFS

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one 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 :

.../...

For the remaining part of the text of this mandate, please refer to mandate 1/33 and replace the relevant annexes with the following pages.

ANNEX 1

CONSTRUCT 94/122/7-33

LIST OF PRODUCTS COVERED BY MANDATE 7/33

FAMILIES OF PRODUCTS				PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)
FORM		MATERIALS		
G	Large units (Structural)	*f	precast concrete	Prefabricated structural units of precast concrete (dense, cellular, lightweight, AAC), aluminium, steel, or timber e.g. trusses
		h	metal	
		i	timber	
H	Sections, bars	h	metal	Roof frame (also see mandate 28/02 "Frame")
		i	timber	Fascias and soffit boards
		q	concrete	
K	Quilts	* j	organic fibres	Thermal insulation quilts, boards, or loose fills of plastics fibres
R	Rigid sheets	* m	inorganic fibres and particles	
		* o	glass (foamed)	
Y	Formless	* n	plastics (foamed)	
L	Flexible sheets	* m	plastics	Vapour barriers, checks
		* s	bitumen	Underlays. Sarking felts.
R	Rigid sheets	h	metal	Roof decking of metal, timber, ply, fibreboard, particle board, woodwool slab
		i	wood	
		j	org fibre	Patent glazing
		o	glass (foamed)	
X	Components		Various ancillary products	Ventilators, components for drainage systems, components for roof outlets, etc. Access systems and walkways Safety hooks
Y	Formless	q	concrete	Readymix concrete cast in situ
		(u	admixtures)	Concrete admixtures

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 7

PRODUCTS USED FOR ROOFS

Form	Materials	Title	Related charact.
K Quilts R Rigid sheets	j organic fibres m inorganic fibres and particles n plastics (foamed) o glass (foamed)	**THERMAL INSULATING PRODUCTS: Factory - made products** Characteristics covered by the harmonised standard will be: **reaction to fire, direct airborne sound insulation index** and **acoustic absorption index** *(only when the product is intended also for acoustic insulation applications)*, **thermal resistance, water vapour permeability, compressive strength** *(for loadbearing applications)* as well as the **durability** of **reaction to fire** and **thermal resistance** against **degradation/ageing** and **heat** and of **compressive strength** against **degradation/ageing.** Additional characteristics for specific products: - Mineral wool products **flexural / tensile strength** *(for handling and installation)*	21a, 51b, 51c, 61a, 61c, 63a, D8, D13 +63b

NB: - Specifications relevant to thermal insulation aspects shall refer to horizontal test methods.
- The values of the characteristics for fire resistance and reaction to fire are determined under the relevant exposures/actions listed in Interpretative Document n°2.
- The standards shall refer to products installed in accordance with the instructions of the producer and have to cover any product already existing on the market and legally used.

Characteristics to be in the harmonised standards	
21a	- Reaction to fire * Euroclasses characteristics
22g 22h 22i	- Reaction / Resistance to fire *(for roofs in end use conditions)* * penetration * spread of flame * flaming droplets/particles
33d	- Water permeability *(only when the product is intended also for water resistant applications)*
34f	- Rate of release of dangerous substances *(only for indoor impact)*
51b 51c 51g	*(only when the product is intended also for acoustic insulation applications)* - Direct airborne sound insulation index - Acoustic absorption index - Impact noise transmission index *(for floors)*
61a 61c 63a 63b 65a	- Thermal resistance - Water vapour permeability - Compressive strength *(for loadbearing applications)* - Flexural / tensile strength *(for handling and installation)* - Rate of release of corrosive substances *(only when the product is intended to be used in contact with metals)*
D3 D4 D6 D7 D8 D13 D14	- Durability of (21a), (22g, h, i) and (61a) against: * biological agents *(only for wood-based panels)* * UV *(only for exposed applications)* * weathering *(only for exposed applications)* * freeze-thaw * ageing/degradation * heat * high temperature
D8	- Durability of (63a) against: * ageing/degradation

Form	Materials	Title	Related charact.
Y Formless	j organic fibres m inorganic fibres and particles n plastics (foamed)	**THERMAL INSULATING PRODUCTS: In-situ formed products**	21a, 51b, 51c, 61a, 61c, D8
		Characteristics covered by the harmonised standard will be: **reaction to fire, direct airborne sound insulation index** and **acoustic absorption index** *(only when the product is intended also for acoustic insulation applications)*, **thermal resistance, water vapour permeability** as well as the **durability of reaction to fire and thermal resistance against degradation/ageing.**	
		Additional characteristics for specific products:	
		- Expanded clay lightweight aggregate loose fill **compressive strenght** *for loadbearing applications)*	+63a
		- Polyurethane foam elements *(for external layer)* **reaction / resistance to fire (penetration, spread of flame, flaming droplets/ particles), compressive strenght** *(for loadbearing applications)* as well as the **durability of reaction / resistance to fire (penetration, spread of flame, flaming droplets/particles) against UV, weathering and heat.**	+22g, h, i, 63a, D4, D6, D13
		- Expanded perlite lightweight aggregate loose fill **rate of release of dangerous substances** *(only for indoor impact)*	+34f

ANNEX 3

Product family : Thermal insulating products (1/1)

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: Classes A, B, C, D, E and F

CEN/CENELEC are requested to follow the Commission Decision [O.J. ....] 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 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

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

Product	Intended use	Level/s or class/es *(Reaction to fire)*	Attestation of conformity system
All factory made and in situ formed **thermal insulating products**	Any	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			

(*) Materials for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials)

(**) Materials 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)

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 the "no performance determined" case, 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 [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 21a **Euroclasses characteristics for reaction to fire** as indicated in the decision of the Commission.....

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

Brussels, 7.09.1994

MANDATE TO CEN/CENELEC CONCERNING THE EXECUTION OF STANDARDISATION WORK ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR SUSPENDED CEILINGS

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one 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 :

.../...

For the remaining part of the text of this mandate, please refer to mandate 1/33 and replace the relevant annexes with the following pages.

ANNEX 1

CONSTRUCT 94/122/10-33

LIST OF PRODUCTS COVERED BY MANDATE 10/33

FAMILIES OF PRODUCTS				PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)
	FORM		MATERIALS	
H	Sections and bars	**h**	metal	Supporting sections, grid (usually steel, aluminium or plastics)
		(i	timber)	
		(n	rubber plastics)	Suspension brackets/rods
R	Rigid sheets	**f**	plaster	Tiles, panels, strips, planks of:
S	Rigid tiles	**h**	metal	plasterboard, glass reinforced plasterboard
		i	timber	Metal (usually steel, aluminium,)
		j	org. fibres	Timber, chipboard (inc. acoustic)
		m	inorg. fibres and particles	Organic fibre (inc. acoustic)
		n	plastics	Mineral fibre (inc. acoustic)
				Plastic, glass reinforced plastic
				Panel forms: plain, textured, lattice, perforated, louvred,
				Fire resistant panels
				Thermally insulated panels
				Acoustic panels
X	Components	All	above	Proprietary suspended ceiling systems
				Jointless systems
				Integrated ceiling/service systems
				e.g. lighting
				Ceiling walkways
				Access panels
				Trims
K	Quilts	*** j**	organic fibres	Thermal insulation quilts or boards of plastics or fibres.
R	Rigid sheets	*** m**	inorganic fibres and particles	
		*** n**	plastics (foamed)	
		*** o**	glass (foamed)	

ANNEX 2

Mandate 10.Suspended ceilings 8 September, 1994

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 10

PRODUCTS USED FOR SUSPENDED CEILINGS

Form	Materials	Title	Related charact.
K Quilts R Rigid sheets	j organic fibers m inorganic fibres and particles n plastics (foamed) o glass (foamed)	**THERMAL INSULATING PRODUCTS: Factory made products** Characteristics covered by the harmonised standard will be: **reaction to fire, direct airborne sound insulation index** and **acoustic absorption index** *(only when the product is intended also for acoustic insulation applications)*, **thermal resistance, water vapour permeability, flexural/tensile strength** *(for handling and installation)* **as well as the durability of reaction to fire** and **thermal resistance against ageing/degradation.** Additional characteristics for specific products: - Wood wool products, Wood fibres products **durability of reaction to fire and thermal resistance against biological agents**	21a, 51b, 51c, 61a, 61c, 63b, D8 +D3

NB: - Specifications relevant to thermal insulation aspects shall refer to horizontal test methods.
- The values of the characteristics for fire resistance and reaction to fire are determined under the relevant exposures/actions listed in Interpretative Document n°2. .
- The standards shall refer to products installed in accordance with the instructions of the producer and have to cover any product already existing on the market and legally used.

Characteristics to be in the harmonised standards	
21a	- Reaction to fire * Euroclasses characteristics
22g 22h 22i	- Reaction / Resistance to fire *(for roofs in end use conditions)* * penetration * spread of flame * flaming droplets/particles
33d	- Water permeability *(only when the product is intended also for water resistant applications)*
34f	- Rate of release of dangerous substances *(only for indoor impact)*
51b	*(only when the product is intended also for acoustic insulation applications)* - Direct airborne sound insulation index
51c	- Acoustic absorption index
51g	- Impact noise transmission index *(for floors)*
61a	- Thermal resistance
61c	- Water vapour permeability
63a	- Compressive strength *(for loadbearing applications)*
63b	- Flexural / tensile strength *(for handling and installation)*
65a	- Rate of release of corrosive substances *(only when the product is intended to be used in contact with metals)*
D3	- Durability of (21a), (22g, h, i) and (61a) against: * biological agents *(only for wood-based panels)*
D4	* UV *(only for exposed applications)*
D6	* weathering *(only for exposed applications)*
D7	* freeze-thaw
D8	* ageing/degradation
D13	* heat
D14	* high temperature
D8	- Durability of (63a) against: * ageing/degradation

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ANNEX 3

Product family : **Thermal insulating products (1/1)**

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: Classes A, B, C, D, E and F

CEN/CENELEC are requested to follow the Commission Decision [O.J. ....] 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 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

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

Product	Intended use	Level/s or class/es *(Reaction to fire)*	Attestation of conformity system
All factory made and in situ formed **thermal insulating products**	Any	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			

(*) Materials for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials)

(**) Materials 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)

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 the "no performance determined" case, 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 [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 21a **Euroclasses characteristics for reaction to fire** as indicated in the decision of the Commission.....

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

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Brussels, 7.09.1994

MANDATE TO CEN/CENELEC CONCERNING THE EXECUTION OF STANDARDISATION WORK ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR **EXTERNAL FINISHES OF WALLS**

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one 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 :

.../...

For the remaining part of the text of this mandate, please refer to mandate 1/33 and replace the relevant annexes with the following pages.

ANNEX 1

LIST OF PRODUCTS COVERED BY MANDATE 11/33

FAMILIES OF PRODUCTS				PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)
	FORM		MATERIALS	
H	Sections, bars	h	metal	Metal, timber and plastics sidings
		i	timber	Supports to these and other finishes eg frames and battens
		p	plastics	Angle beads for renders
J	Wire, mesh	h	metal	Reinforcement and lathing systems for rendered finishes
		n	plastic	
K	Quilts	* m	inorganic fibres and particles	Thermal insulation quilts, boards (to take rendered or sheet finishes)
R	Rigid sheets	* n	plastics (foamed)	
L	Flexible sheets	m	plastics	Breather paper
		s	bitumen	Flashings
		h	metal	
N	Rigid overlapping sheets/tiles	e	stone	Overlapping tiles of stone (e.g. slate), concrete and clay, metal, timber shingles, plastics, bitumen bonded fibre, fibre cement
		f	concrete cast stone	
		g	clay	
		h	metal	Include special tiles e.g. corner units
		i	timber	
		n	plastics	
		s	bituminous	
P	Thin coatings (renders)	q	cement	Premixed renders
		p	aggregates	
		(u	admixtures)	
R	Rigid sheets	h	metal	Profiled sheets of metal or plastic.
		i	wood	Cladding units of plywood or timber composites
		n	plastics	
S	Rigid tiles	e	stone	Butted tiles of stone, concrete and cast stone, clay and gazed ceramics. Mosaics
		f	concrete clay stone	
		g	clay	Brick slips
V	Thin coatings	v	paints	Masonry paint. Paint finishes for sidings and sheets
Y	Formless	t	fixing, jointing	Adhesives and grouts for fixed tiles
				Gaskets and mastics for other finishes

ANNEX 2

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 11

PRODUCTS USED FOR EXTERNAL FINISHES OF WALLS

Form	Materials	Title	Related charact.
K Quilts R Rigid sheets	m inorganic fibres and particles n plastics (foamed)	**THERMAL INSULATING PRODUCTS: Factory made products** Characteristics covered by the harmonised standard will be: **reaction to fire, water permeability** *(only when the product is intended also for water resistant applications)*, **direct airborne sound insulation index** *(only when the product is intended also for acoustic insulation applications)*, **thermal resistance, water vapour permeability, flexural/tensile strength** *(for handling and installation)* as well as the **durability of reaction to fire and thermal resistance against UV, weathering, ageing/degradation and heat.**	21a, 33d, 51b, 61a, 61c, 63b, D4, D6, D8, D13

NB: - Specifications relevant to thermal insulation aspects shall refer to horizontal test methods.
- The values of the characteristics for fire resistance and reaction to fire are determined under the relevant exposures/actions listed in Interpretative Document n°2.
- The standards shall refer to products installed in accordance with the instructions of the producer and have to cover any product already existing on the market and legally used.

Characteristics to be in the harmonised standards	
21a	- Reaction to fire * Euroclasses characteristics
22g 22h 22i	- Reaction / Resistance to fire *(for roofs in end use conditions)* * penetration * spread of flame * flaming droplets/particles
33d 34f	- Water permeability *(only when the product is intended also for water resistant applications)* - Rate of release of dangerous substances *(only for indoor impact)*
51b 51c 51g	*(only when the product is intended also for acoustic insulation applications)* - Direct airborne sound insulation index - Acoustic absorption index - Impact noise transmission index *(for floors)*
61a 61c 63a 63b 65a	- Thermal resistance - Water vapour permeability - Compressive strength *(for loadbearing applications)* - Flexural / tensile strength *(for handling and installation)* - Rate of release of corrosive substances *(only when the product is intended to be used in contact with metals)*
D3 D4 D6 D7 D8 D13 D14	- Durability of (21a), (22g, h, i) and (61a) against: * biological agents *(only for wood-based panels)* * UV *(only for exposed applications)* * weathering *(only for exposed applications)* * freeze-thaw * ageing/degradation * heat * high temperature
D8	- Durability of (63a) against: * ageing/degradation

ANNEX 3

Product family : **Thermal insulating products (1/1)**

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: Classes A, B, C, D, E and F

CEN/CENELEC are requested to follow the Commission Decision [O.J. ....] 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 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

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

Product	Intended use	Level/s or class/es *(Reaction to fire)*	Attestation of conformity system
All factory made and in situ formed **thermal insulating products**	Any	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			

(*) Materials for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials)

(**) Materials 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)

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 the "no performance determined" case, 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 [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 21a **Euroclasses characteristics for reaction to fire** as indicated in the decision of the Commission.....

EUROPEAN COMMISSION
DIRECTORATE-GENERAL III
INDUSTRY
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Brussels, 7.09.1994

CONSTRUCT 94/122 rev.

MANDATE TO CEN/CENELEC CONCERNING THE EXECUTION OF STANDARDISATION WORK ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR INTERNAL FINISHES OF WALLS AND PARTITIONS

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one 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 :

.../...

For the remaining part of the text of this mandate, please refer to mandate 1/33 and replace the relevant annexes with the following pages.

ANNEX 1

LIST OF PRODUCTS COVERED BY MANDATE 12/33

FAMILIES OF PRODUCTS				PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)
FORM		MATERIALS		
H	Sections, bars	h	metal	Metal, timber and plastics supports to lining systems eg frames and battens
		i	timber	
		p	plastics	Angle beads for plasterwork. Skirting boards
K	Quilts	* j	org. fibres	Thermal (and sound) insulation quilts or boards of plastics or fibres
R	Rigid sheets	* m	inorganic fibres and particles	
		* n	plastics (foamed)	
L	Flexible sheets	m	plastics	Breather paper
		s	bitumen	Flashings
		h	metal	
P	Thin coatings	q	cement	Render and plaster finishes
		p	aggregates	
		r	gypsum plaster	
R	Rigid sheets	h	metal	Internal linings of metal, plasterboard, plywood, fibre/particle board (including foil and plastics backed and insulated)
		f	plasterboard	
		i	wood (plywood and fibre/particle board)	
S	Rigid tiles	e	stone	Wall tiles of concrete, stone and cast stone, clay, ceramic, glass, cork (inc. timber siding)
		f	concrete clay stone	
		g	clay	
		o	glass	
		l	timber	
T	Flexible sheets/tiles	j	org. fibres	Wall papers, cellulosic, polymler, fabric, and composites
		m	inorg. fibres and particles	
		n	rubber, plastics	
T	Flexible sheets	n	plastics	Vapour barriers
		s	bitumen	
V	Thin coatings	v	paints	Paints, dyes and varnishes
Y	Formless	t	fixing, jointing	Adhesives and grouts for fixed tiles, adhesives for papers

ANNEX 2

Mandate 12. Internal finishes of walls and partitions 8 September, 1994

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 12

PRODUCTS USED FOR INTERNAL FINISHES OF WALLS AND PARTITIONS

Form	Materials	Title	Related charact.
K Quilts R Rigid sheets	j organic fibers m inorganic fibres and particles n plastics (foamed)	**THERMAL INSULATING PRODUCTS: Factory made products** Characteristics covered by the harmonised standard will be: **reaction to fire, direct airborne sound insulation index** and **acoustic absorption index** *(only when the product is intended also for acoustic insulation applications)*, **thermal resistance, water vapour permeability, flexural/tensile strength** *(for handling and installation)* **as well as the durability of reaction to fire and thermal resistance against ageing/degradation.** Additional characteristics for specific products: - Wood wool products, Wood fibres products **durability of reaction to fire and thermal resistance against biological agents**	21a, 51b, 51c, 61a, 61c, 63b, D8 +D3

NB: - Specifications relevant to thermal insulation aspects shall refer to horizontal test methods.
- The values of the characteristics for fire resistance and reaction to fire are determined under the relevant exposures/actions listed in Interpretative Document n°2.
- The standards shall refer to products installed in accordance with the instructions of the producer and have to cover any product already existing on the market and legally used.

Characteristics to be in the harmonised standards	
21a	- Reaction to fire * Euroclasses characteristics
22g 22h 22i	- Reaction / Resistance to fire *(for roofs in end use conditions)* * penetration * spread of flame * flaming droplets/particles
33d	- Water permeability *(only when the product is intended also for water resistant applications)*
34f	- Rate of release of dangerous substances *(only for indoor impact)*
51b 51c 51g	*(only when the product is intended also for acoustic insulation applications)* - Direct airborne sound insulation index - Acoustic absorption index - Impact noise transmission index *(for floors)*
61a 61c 63a 63b 65a	- Thermal resistance - Water vapour permeability - Compressive strength *(for loadbearing applications)* - Flexural / tensile strength *(for handling and installation)* - Rate of release of corrosive substances *(only when the product is intended to be used in contact with metals)*
D3 D4 D6 D7 D8 D13 D14	- Durability of (21a), (22g, h, i) and (61a) against: * biological agents *(only for wood-based panels)* * UV *(only for exposed applications)* * weathering *(only for exposed applications)* * freeze-thaw * ageing/degradation * heat * high temperature
D8	- Durability of (63a) against: * ageing/degradation

ANNEX 3

Product family : **Thermal insulating products** (1/1)

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: Classes A, B, C, D, E and F

CEN/CENELEC are requested to follow the Commission Decision [O.J. ....] 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 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

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

Product	Intended use	Level/s or class/es *(Reaction to fire)*	Attestation of conformity system
All factory made and in situ formed **thermal insulating products**	Any	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

(*) Materials for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials)

(**) Materials 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)

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 the "no performance determined" case, 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 [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 21a **Euroclasses characteristics for reaction to fire** as indicated in the decision of the Commission.....

EUROPEAN COMMISSION
DIRECTORATE-GENERAL III
INDUSTRY
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Brussels, 7.09.1994

MANDATE TO CEN/CENELEC CONCERNING THE EXECUTION OF STANDARDISATION WORK ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR CEILING FINISHES

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one 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 :

.../...

For the remaining part of the text of this mandate, please refer to mandate 1/33 and replace the relevant annexes with the following pages.

ANNEX 1

LIST OF PRODUCTS COVERED BY MANDATE 14/33

FAMILIES OF PRODUCTS				PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)
FORM		MATERIALS		
H	Sections, bars	h	metal	Metal, timber and plastics supports to lining systems eg frames and buttens
		i	timber	Timber planks
		n	plastics	
H	Sections, bars	f	plaster	Covings, corners and other products for edge detail
		n	plastics	
K	Quilts	* j	org. fibres	Sound and thermal insulation quilts or boards
R	Rigid sheets	* m	inorganic fibres and particles	
		* n	plastics (foamed)	
P	Thin coatings	q	cement/lime	Render and plaster finishes
		p	aggregates	Sprayed acoustic ceiling.
		r	gypsum	
R	Rigid sheets	f	plasterboard	Plasterboard ceiling linings (including foil and plastics backed and insulated)
		i	wood	Ply and fibre/particle board.
S	Rigid tiles	f	precast	Ceilings tiles of precast plaster, lightweight fibre, plastic foams.
		g	clay	Acoustic tiles.
		j	org. fibres	Ceramic tiles
		m	inorg. fibres and particles	
		n	rubber/plastics	
T	Flexible sheets/tiles	j	org. fibres	Wall papers, cellulosic, polymler, fabric, and composites
		m	inorg. fibres and particles	
		n	rubber, plastics	
T	Flexible sheets	n	plastics	Vapour barriers
		s	bitumen	
V	Thin coatings	v	paints	Paints, dyes and varnishes
Y	Formless	t	fixing, jointing	Adhesives and grouts for fixed tiles, adhesives for papers

ANNEX 2

Mandate 14. Ceiling finishes 8 September, 1994

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 14

PRODUCTS USED FOR CEILING FINISHES

Form	Materials	Title	Related charact.
K Quilts R Rigid sheets	j organic fibers m inorganic fibres and particles n plastics (foamed)	**THERMAL INSULATING PRODUCTS: Factory made products** Characteristics covered by the harmonised standard will be: **reaction to fire, direct airborne sound insulation index** and **acoustic absorption index** *(only when the product is intended also for acoustic insulation applications)*, **thermal resistance, water vapour permeability, flexural/tensile strength** *(for handling and installation)* **as well as the durability of reaction to fire and thermal resistance against ageing/degradation.**	21a, 51b, 51c, 61a, 61c, 63b, D8
		Additional characteristics for specific products:	
		- Wood wool products, Wood fibres products **durability of reaction to fire and thermal resistance against biological agents**	+D3

NB: - Specifications relevant to thermal insulation aspects shall refer to horizontal test methods.
- The values of the characteristics for fire resistance and reaction to fire are determined under the relevant exposures/actions listed in Interpretative Document n°2.
- The standards shall refer to products installed in accordance with the instructions of the producer and have to cover any product already existing on the market and legally used.

Characteristics to be in the harmonised standards	
21a	- Reaction to fire * Euroclasses characteristics
	- Reaction / Resistance to fire *(for roofs in end use conditions)*
22g	* penetration
22h	* spread of flame
22i	* flaming droplets/particles
33d	- Water permeability *(only when the product is intended also for water resistant applications)*
34f	- Rate of release of dangerous substances *(only for indoor impact)*
	(only when the product is intended also for acoustic insulation applications)
51b	- Direct airborne sound insulation index
51c	- Acoustic absorption index
51g	- Impact noise transmission index *(for floors)*
61a	- Thermal resistance
61c	- Water vapour permeability
63a	- Compressive strength *(for loadbearing applications)*
63b	- Flexural / tensile strength *(for handling and installation)*
65a	- Rate of release of corrosive substances *(only when the product is intended to be used in contact with metals)*
	- Durability of (21a), (22g, h, i) and (61a) against:
D3	* biological agents *(only for wood-based panels)*
D4	* UV *(only for exposed applications)*
D6	* weathering *(only for exposed applications)*
D7	* freeze-thaw
D8	* ageing/degradation
D13	* heat
D14	* high temperature
	- Durability of (63a) against:
D8	* ageing/degradation

ANNEX 3

Product family : **Thermal insulating products** (1/1)

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: Classes A, B, C, D, E and F

CEN/CENELEC are requested to follow the Commission Decision [O.J. ....] 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 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

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

Product	Intended use	Level/s or class/es *(Reaction to fire)*	Attestation of conformity system
All factory made and in situ formed **thermal insulating products**	Any	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			

(*) Materials for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials)

(**) Materials 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)

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 the "no performance determined" case, 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 [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 21a **Euroclasses characteristics for reaction to fire** as indicated in the decision of the Commission.....

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

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Brussels, 7.09.1994

MANDATE TO CEN/CENELEC CONCERNING THE EXECUTION OF STANDARDISATION WORK ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR SUPPLY OF HOT AND COLD WATER

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one 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 :

.../...

For the remaining part of the text of this mandate, please refer to mandate 1/33 and replace the relevant annexes with the following pages.

ANNEX 1

CONSTRUCT 94/122/19-33

LIST OF PRODUCTS COVERED BY MANDATE 19/33

FAMILIES OF PRODUCTS				PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)
	FORM		MATERIALS	
I	Pipes	f	precast concrete	Pipes of fibre cement, concrete (reinforced or not), metals (e.g. copper, aluminium, galvanised steel, stainless steel, chrome steel, ductile and grey iron, cast iron), plastics and rubbers (polythene, ABS, pvc, polybutylene, polypropylene) Include miniborepipes Hose pipes
		h	metal	
		n	plastics/rubber	
H	Sections	* m	inorg fibres and particles	Thermal insulation lagging for pipes,tanks and other component
K	Quilts	* n	plastics (foamed)	
X	Components	h	metal	Pipe fittings (inc. gaskets, capillary fittings, compression fittings, ring seals, etc.)
		n	plastics/rubber	

X	Components	f h n	precast concrete metal plastics	Cold water storage tanks of: . fibre cement . galvanised, coated iron . galvanised, bitumen coated steel . copper . plastics, glass reinforced plastics Fee and expansion tanks Hot water cylinders (galvanised, steel copper)
X	Components	h n	metal plastics/rubber + others	Unvented hot water systems Packaged plumbing systems Heating coils Electric immersion heaters Water heat exchangers Taps, mixing taps, shower units Fixed water appliances Drinking water cooliers Hydrants, surface boxes Water filters/softners Pumps, pressuring equipment Water meters Ball valves Overflow systems Backflow prevention devices Water hammer absorbers Thermostats, valves Safety mixing valves Safety cut outs
Y	Formless	q n j m	cement binders plastics org. fibers inorg. fibers and particles	Sprayed thermal insulation for pipes, tanks and other components

ANNEX 2

Mandate 19. Supply of hot and cold water 8 September, 1994

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 19

PRODUCTS USED FOR SUPPLY OF HOT AND COLD WATER

Form	Materials	Title	Related charact.
H Sections K Quilts	m inorganic fibres and particles n plastics (foamed)	**THERMAL INSULATING PRODUCTS: Factory made products** Characteristics covered by the harmonised standard will be: **reaction to fire** *(only when the product is intended for exposed applications)*, **thermal resistance, water vapour permeability, rate of release of corrosive substances** *(only when the product is intended to be used in contact with metals)* **as well as the durability of reaction to fire and thermal resistance against ageing/degradation and high temperature.**	21a, 61a, 61c, 65a, D8, D14

NB: - Specifications relevant to thermal insulation aspects shall refer to horizontal test methods.
- The values of the characteristics for fire resistance and reaction to fire are determined under the relevant exposures/actions listed in Interpretative Document n°2.
- The standards shall refer to products installed in accordance with the instructions of the producer and have to cover any product already existing on the market and legally used.

Characteristics to be in the harmonised standards	
21a	- Reaction to fire * Euroclasses characteristics
22g 22h 22i	- Reaction / Resistance to fire *(for roofs in end use conditions)* * penetration * spread of flame * flaming droplets/particles
33d	- Water permeability *(only when the product is intended also for water resistant applications)*
34f	- Rate of release of dangerous substances *(only for indoor impact)*
51b 51c 51g	*(only when the product is intended aiso for acoustic insulation applications)* - Direct airborne sound insulation index - Acoustic absorption index - Impact noise transmission index *(for floors)*
61a 61c 63a 63b 65a	- Thermal resistance - Water vapour permeability - Compressive strength *(for loadbearing applications)* - Flexural / tensile strength *(for handling and installation)* - Rate of release of corrosive substances *(only when the product is intended to be used in contact with metals)*
D3 D4 D6 D7 D8 D13 D14	- Durability of (21a), (22g, h, i) and (61a) against: * biological agents *(only for wood-based panels)* * UV *(only for exposed applications)* * weathering *(only for exposed applications)* * freeze-thaw * ageing/degradation * heat * high temperature
D8	- Durability of (63a) against: * ageing/degradation

Form	Materials	Title	Related charact.
Y Formless	q cement binders n plastics (foamed) j organic fibers m inorganic fibres and particles	**THERMAL INSULATING PRODUCTS: In-situ formed products** Characteristics covered by the harmonised standard will be: **reaction to fire** *(only when the product is intended for exposed applications)*, **thermal resistance, water vapour permeability, rate of release of corrosive substances** *(only when the product is intended to be used in contact with metals)* as well as the **durability of reaction to fire** and **thermal resistance against ageing/degradation and high temperature.**	21a, 61a, 61c, 65a, D8, D14

ANNEX 3

Product family : **Thermal insulating products** (1/1)

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: Classes A, B, C, D, E and F

CEN/CENELEC are requested to follow the Commission Decision [O.J. ....] 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 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

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

Product	Intended use	Level/s or class/es *(Reaction to fire)*	Attestation of conformity system
All factory made and in situ formed **thermal insulating products**	Any	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			

(*) Materials for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials)

(**) Materials 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)

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 the "no performance determined" case, 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 [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 21a **Euroclasses characteristics for reaction to fire** as indicated in the decision of the Commission.....

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Brussels, 7.09.1994

MANDATE TO CEN/CENELEC CONCERNING THE EXECUTION OF STANDARDISATION WORK ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR SUPPLY OF FUELS, OIL AND OTHER LIQUIDS

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one 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 :

.../...

For the remaining part of the text of this mandate, please refer to mandate 1/33 and replace the relevant annexes with the following pages.

ANNEX 1

CONSTRUCT 94/122/20-33

LIST OF PRODUCTS COVERED BY MANDATE 20/33

FAMILIES OF PRODUCTS				PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)
	FORM		MATERIALS	
I	Pipes	**h**	metal	Pipes of metal (e.g. copper, aluminium, galvanised steel, stainless steel, chrome steel, ductile and grey iron, cast iron), plastics and rubbers
		n	plastics/rubber	
H	Sections	***m**	inorg fibres	Thermal insulation and thermal protection for pipes and other component
K	Quilts	*** n**	plastics (foamed)	
Y	Formless	***q**	cement binders	Sprayed thermal insulation
X	Components	**h**	metal	Pipe fittings (inc. gaskets, capillary fittings, compression fittings, ring seals, etc.)
		n	plastics/rubber	
X	Components	**h**	metal	Valves (e.g. pressure release, safety, non return) Taps Meters Pressure gauges Pumps, pressurising equipment Vacuum pumps Filters Separators Sight tubes Hammer absorbers Control systems e.g. electrical Safety cut outs Pre heat elements
		n	plastics/rubber	
		+	others	
				Pipe / equipment support systems, Penetration seals Colour coding systems
				LPG supply system Petrol and oil supply system Hydraulic equipment

ANNEX 2

Mandate 20. Supply of fuel, oil and other liquids 8 September, 1994

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 20

PRODUCTS USED FOR SUPPLY OF FUELS, OIL AND OTHER LIQUIDS

Form	Materials	Title	Related charact.
H Sections K Quilts	m inorganic fibres and particles n plastics (foamed)	**THERMAL INSULATING PRODUCTS: Factory made products** Characteristics covered by the harmonised standard will be: **reaction to fire** *(only when the product is intended for exposed applications)*, **thermal resistance, water vapour permeability, rate of release of corrosive substances** *(only when the product is intended to be used in contact with metals)* as well as the **durability of reaction to fire and thermal resistance against ageing/degradation and high temperature.**	21a, 61a, 61c, 65a, D8, D14

NB: - Specifications relevant to thermal insulation aspects shall refer to horizontal test methods.
- The values of the characteristics for fire resistance and reaction to fire are determined under the relevant exposures/actions listed in Interpretative Document n°2.
- The standards shall refer to products installed in accordance with the instructions of the producer and have to cover any product already existing on the market and legally used.

Characteristics to be in the harmonised standards	
21a	- Reaction to fire * Euroclasses characteristics
22g 22h 22i	- Reaction / Resistance to fire *(for roofs in end use conditions)* * penetration * spread of flame * flaming droplets/particles
33d	- Water permeability *(only when the product is intended also for water resistant applications)*
34f	- Rate of release of dangerous substances *(only for indoor impact)*
51b	*(only when the product is intended also for acoustic insulation applications)* - Direct airborne sound insulation index
51c	- Acoustic absorption index
51g	- Impact noise transmission index *(for floors)*
61a	- Thermal resistance
61c	- Water vapour permeability
63a	- Compressive strength *(for loadbearing applications)*
63b	- Flexural / tensile strength *(for handling and installation)*
65a	- Rate of release of corrosive substances *(only when the product is intended to be used in contact with metals)*
D3 D4 D6 D7 D8 D13 D14	- Durability of (21a), (22g, h, i) and (61a) against: * biological agents *(only for wood-based panels)* * UV *(only for exposed applications)* * weathering *(only for exposed applications)* * freeze-thaw * ageing/degradation * heat * high temperature
D8	- Durability of (63a) against: * ageing/degradation

Form	Materials	Title	Related charact.
Y Formless	q cement binders n plastics (foamed) m inorganic fibres and particles	**THERMAL INSULATING PRODUCTS: In-situ formed products** Characteristics covered by the harmonised standard will be: **reaction to fire** *(only when the product is intended for exposed applications)*, **thermal resistance, rate of release of corrosive substances** *(only when the product is intended to be used in contact with metals)* **as well as the durability of reaction to fire and thermal resistance against ageing/degradation and high temperature.**	21a, 61a, 61c, 65a, D8, D14

ANNEX 3

Product family : **Thermal insulating products (1/1)**

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: Classes A, B, C, D, E and F

CEN/CENELEC are requested to follow the Commission Decision [O.J. ....] 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 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

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

Product	Intended use	Level/s or class/es *(Reaction to fire)*	Attestation of conformity system
All factory made and in situ formed **thermal insulating products**	Any	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			

(*) Materials for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials)

(**) Materials 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)

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 the "no performance determined" case, 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 [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 21a **Euroclasses characteristics for reaction to fire** as indicated in the decision of the Commission.....

EUROPEAN COMMISSION
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Brussels, 7.09.1994

MANDATE TO CEN/CENELEC CONCERNING THE EXECUTION OF STANDARDISATION WORK ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR SUPPLY OF GASES, PRESSURE AND VACCUMS SYSTEM

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one 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 :

.../...

For the remaining part of the text of this mandate, please refer to mandate 1/33 and replace the relevant annexes with the following pages.

ANNEX 1

CONSTRUCT 94/122/22-33

LIST OF PRODUCTS COVERED BY MANDATE 22/33

FAMILIES OF PRODUCTS				PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)
	FORM		MATERIALS	
I	Pipes	h	metal	Pipes of metal (e.g. copper, aluminium, galvanised steel, stainless steel, chrome steel, ductile and grey iron, cast iron), plastics and rubbers
		n	plastics/rubber	
H	Sections	m	inorg fibres	Thermal insulation and thermal protection for pipes and other component
K	Quilts	* n	plastics (foamed)	
Y	Formless	q	cement binders	Sprayed thermal insulation
X	Components	h	metal	Pipe fittings (inc. gaskets, capillary fittings, compression fittings, ring seals, etc.)
		n	plastics/rubber	
X	Components	h	metal	Valves (e.g. pressure release, safety, non return)
		n	plastics/rubber	Taps
		+	others	Meters
				Pressure gauges
				Pumps, pressurising equipment
				Vacuum pumps
				Filters
				Liquid and condensate separators
				Sight tubes
				Hammer absorbers
				Control systems e.g. electrical
				Safety cut outs
				Pipe / equipment support systems,
				Penetration seals
				Colour coding systems
				Fuel gas supply systems e.g. natural.gas, coal gas, propane, butane (including bottled gas systems)
				Vapour supply systems e.g. steam distribution systems
				Supply systems for compressed air and other gases e.g. medical or industrial use
				Vacuum supply systems

ANNEX 2

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 22

PRODUCTS TO BE USED FOR GASES, PRESSURE AND VACUUM SYSTEMS

Form	Materials	Title	Related charact.
Y Formless	n plastics (foamed)	**THERMAL INSULATING PRODUCTS: In-situ formed products** Characteristics covered by the harmonised standard will be: **reaction to fire** *(only when the product is intended for exposed applications)*, **thermal resistance, water vapour permeability, rate of release of corrosive substances** *(only when the product is intended to be used in contact with metals)* as well as the **durability of reaction to fire and thermal resistance against ageing/degradation and high temperature.**	21a, 61a, 61c, 65a, D8, D14

NB: - Specifications relevant to thermal insulation aspects shall refer to horizontal test methods.
- The values of the characteristics for fire resistance and reaction to fire are determined under the relevant exposures/actions listed in Interpretative Document n°2.
- The standards shall refer to products installed in accordance with the instructions of the producer and have to cover any product already existing on the market and legally used.

	Characteristics to be in the harmonised standards
21a	- Reaction to fire * Euroclasses characteristics
22g 22h 22i	- Reaction / Resistance to fire *(for roofs in end use conditions)* * penetration * spread of flame * flaming droplets/particles
33d	- Water permeability *(only when the product is intended also for water resistant applications)*
34f	- Rate of release of dangerous substances *(only for indoor impact)*
51b	*(only when the product is intended also for acoustic insulation applications)* - Direct airborne sound insulation index
51c	- Acoustic absorption index
51g	- Impact noise transmission index *(for floors)*
61a	- Thermal resistance
61c	- Water vapour permeability
63a	- Compressive strength *(for loadbearing applications)*
63b	- Flexural / tensile strength *(for handling and installation)*
65a	- Rate of release of corrosive substances *(only when the product is intended to be used in contact with metals)*
D3 D4 D6 D7 D8 D13 D14	- Durability of (21a), (22g, h, i) and (61a) against: * biological agents *(only for wood-based panels)* * UV *(only for exposed applications)* * weathering *(only for exposed applications)* * freeze-thaw * ageing/degradation * heat * high temperature
D8	- Durability of (63a) against: * ageing/degradation

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Form	Materials	Title	Related charact.
H Sections K Quilts	m inorganic fibres and particles n plastics (foamed)	**THERMAL INSULATING PRODUCTS: Factory made products** Characteristics covered by the harmonised standard will be: **reaction to fire** *(only when the product is intended for exposed applications)*, **thermal resistance, water vapour permeability, rate of release of corrosive substances** *(only when the product is intended to be used in contact with metals)* as well as the **durability of reaction to fire** and **thermal resistance against ageing/degradation** and **high temperature.**	21a, 61a, 61c, 65a, D8, D14

ANNEX 3

Product family : **Thermal insulating products (1/1)**

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: Classes A, B, C, D, E and F

CEN/CENELEC are requested to follow the Commission Decision [O.J. ....] 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 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

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

Product	Intended use	Level/s or class/es *(Reaction to fire)*	Attestation of conformity system
All factory made and in situ formed **thermal insulating products**	Any	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			

(*) Materials for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials)

(**) Materials 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)

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 the "no performance determined" case, 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 [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 21a **Euroclasses characteristics for reaction to fire** as indicated in the decision of the Commission.....

EUROPEAN COMMISSION
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Brussels, 7.09.1994

CONSTRUCT 94/122 rev.

MANDATE TO CEN/CENELEC CONCERNING THE EXECUTION OF STANDARDISATION WORK ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR SPACE HEATING, COOLING AND AIR CONDITIONING (INCLUDING MECHANICAL AND NATURAL VENTILATION AND SMOKE EXTRACTION)

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one 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 :

.../...

For the remaining part of the text of this mandate, please refer to mandate 1/33 and replace the relevant annexes with the following pages.

ANNEX 1

CONSTRUCT 94/122/23-33

LIST OF PRODUCTS COVERED BY MANDATE 23/33

FAMILIES OF PRODUCTS			PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)
FORM		MATERIALS	
Space heating :			
X Components	h	metal	Room heaters: Electric, radiant, convective, storage.
	i	timber	Oil fired
	n	plastics	Gas fired
	+	others	Solid fuel
			Wood burning stoves
			Fireplaces and surrounds
			Air curtains and door heaters
			Underfloor and ceiling heaters
			Hot water radiants (cast iron, steel, copper. cast or extruded aluminium)
			Other components :
			Water circulating pumps
			Condense pump sets
			Heat pumps, heat recovery
			Control valves
			Pressure and temperature relief valves
	w	chemicals	Corrosion inhibitors
Ventilation & Air conditioning :			
X Components	h	metal	Natural fresh air inlets and extracts
	i	timber	Passive stack ventilation systems
	n	plastics	Underfloor ventilation systems
	+	others	Mechanical extract units - ceiling recirculating fans; wall, window, roof units; ducted; acoustic; (including dust control and smoke extract)
			Hoods for domestic cookers
			Air conditioning units
			Terminal units e.g. re-heat, fan coil, induction, volume control
			Refrigeration units
			Heat recovery units
			Condensors
			Fans
			Filters
			Diffusers
			Sound attenuators
			Ductwork (galvanised steel, flexible, plastics, fibre reinforced cement)
			Duct mounted ancillaries (fire dampers, air-balancing dampers, air turning vanes, access doors),
			Humidifiers and dehumidifiers

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Fire ventilation :

X	Components	Smoke and fire venting installations Pressurisation installation Penetration seals

Controls :

X	Components	Programmers / time switches Thermostats, humidistats Pressure gauges /meters Recording equipment Energy management systems

Insulation :

H	Sections	* j	organic fibres	Thermal (or sound) insulation, sections, boards, quilts, sprayed insulation
K	Quilts	* m	inorganic fibres and particles	
R	Rigid Sheets	* n	plastics (foamed)	
Y	Formless	o	glass (foamed)	
		q	cement	

ANNEX 2

Mandate 23. Space heating, cooling and air conditioning, 8 September, 1994

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 23

PRODUCTS USED FOR SPACE HEATING, COOLING AND AIR CONDITIONING (INCLUDING MECHANICAL AND NATURAL VENTILATION AND SMOKE EXTRACTION)

Form	Materials	Title	Related charact.
H Sections K Quilts R Rigid sheets Y Formless	j organic fibres m inorganic fibres and particles n plastics (foamed) o glass (foamed)	**THERMAL INSULATING PRODUCTS: Factory made products** Characteristics covered by the harmonised standard will be: **reaction to fire, rate of release of dangereous substances** *(only for indoor impact)*, **direct airborne sound insulation index** *(only when the product is claimed for acoustic insulation applications)*, **thermal resistance, water vapour permeability, rate of release of corrosive substances** *(only when the product is intended to be used in contact with metals)* as well as the **durability of reaction to fire and thermal resistance against biological agents, degradation/ageing and high temperature.**	21a, 34f, 51b, 61a, 61c, 65a, D3, D8, D14

NB: - Specifications relevant to thermal insulation aspects shall refer to horizontal test methods.
- The values of the characteristics for fire resistance and reaction to fire are determined under the relevant exposures/actions listed in Interpretative Document n°2.
- The standards shall refer to products installed in accordance with the instructions of the producer and have to cover any product already existing on the market and legally used.

Characteristics to be in the harmonised standards	
21a	- Reaction to fire * Euroclasses characteristics
22g 22h 22i	- Reaction / Resistance to fire *(for roofs in end use conditions)* * penetration * spread of flame * flaming droplets/particles
33d	- Water permeability *(only when the product is intended also for water resistant applications)*
34f	- Rate of release of dangerous substances *(only for indoor impact)*
51b 51c 51g	*(only when the product is intended also for acoustic insulation applications)* - Direct airborne sound insulation index - Acoustic absorption index - Impact noise transmission index *(for floors)*
61a 61c 63a 63b 65a	- Thermal resistance - Water vapour permeability - Compressive strength *(for loadbearing applications)* - Flexural / tensile strength *(for handling and installation)* - Rate of release of corrosive substances *(only when the product is intended to be used in contact with metals)*
D3 D4 D6 D7 D8 D13 D14	- Durability of (21a), (22g, h, i) and (61a) against: * biological agents *(only for wood-based panels)* * UV *(only for exposed applications)* * weathering *(only for exposed applications)* * freeze-thaw * ageing/degradation * heat * high temperature
D8	- Durability of (63a) against: * ageing/degradation

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Form	Materials	Title	Related charact.
Y Formless	j organic fibres m inorganic fibres and particles n plastics (foamed)	**THERMAL INSULATING PRODUCTS: In-situ formed products** Characteristics covered by the harmonised standard will be: **reaction to fire, rate of release of dangereous substances** *(only for indoor impact)*, **direct airborne sound insulation index** *(only when the product is claimed for acoustic insulation applications)*, **thermal resistance, water vapour permeability, rate of release of corrosive substances** *(only when the product is intended to be used in contact with metals)* **as well as the durability of reaction to fire** and **thermal resistance against biological agents, degradation/ageing** and **high temperature.**	21a, 34f, 51b, 61a, 61c, 65a, D3, D8, D14

ANNEX 3

Product family : **Thermal insulating products (1/1)**

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: Classes A, B, C, D, E and F

CEN/CENELEC are requested to follow the Commission Decision [O.J. ....] 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 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

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

Product	Intended use	Level/s or class/es *(Reaction to fire)*	Attestation of conformity system
All factory made and in situ formed **thermal insulating products**	Any	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			

(*) Materials for which the reaction to fire performance is susceptible to change during the production process (In general, those made with combustible raw materials)

(**) Materials 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)

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 the "no performance determined" case, 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 [see Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 21a **Euroclasses characteristics for reaction to fire** as indicated in the decision of the Commission.....