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Direction: Construction  
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## 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 <sup>1</sup>*

*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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<sup>1</sup> 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 characteristics, 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 accompanying 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 <sup>(2)</sup> 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 in article 7 of Council Directive 83/189/EEC of 28 March 1983 modified by Council Directive 88/182/EEC of 22 March 1988 and the European Parliament and the Council Directive 94/10/EC of 23 March 1994.
14. CEN/CENELEC will develop the draft harmonised European standards (prENs) in accordance with the appropriate work programme and will inform the Commission in good time that the draft is being circulated for public comment.
15. CEN/CENELEC will present the final drafts of the harmonised European standards to the Commission for confirmation of compliance with this mandate at the latest in accordance with the timetable agreed between CEN/CENELEC and the Commission and referred to in point IV.5.



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

## LIST OF PRODUCTS COVERED BY MANDATE 1/33

| FAMILIES OF PRODUCTS |                             | PRODUCTS FOR CONSIDERATION<br>(INCLUDING PRODUCTS<br>INTENDED TO BE INCORPORATED<br>IN SYSTEMS / INSTALLATIONS) |   |
|----------------------|-----------------------------|---|---|
| FORM                 | MATERIALS                   |   |   |
| F                    | Bricks, blocks              | e stone<br>f concrete, cast stone<br>g clay<br>o glass  | Paviors and flags of stone, cast stone, clay, glass.<br>Including kerbs   |
| G                    | Large units<br>(structural) | f concrete  | Precast concrete units, including reinforced  |
| H                    | Sections, bars              | i timber  | Timber sections and planks for suspended ground<br>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  | <u>Thermal insulation quilts or boards of plastics or<br/>fibres.</u>   |
| R                    | Rigid sheets                | * m inorganic fibres and<br>particles   | Void Formers  |
| Y                    | Formless                    | * n plastics (foamed)<br>* o glass (foamed)   |   |
| L                    | Flexible sheets             | * n plastics<br>* s bitumen<br>* y composites   | <u>Damp proof membranes, barriers to water vapour<br/>and other gases or vapours. Basement tanking.</u>                 |
| L                    | Flexible sheets             | j org fibre<br>m inorg fibre<br>n plastics  | Separating membranes<br>Geosynthetics (membranes and textiles)<br>Drainage membranes                                    |
| P                    | Thin coatings               | n polymeric<br>s bituminous   | Liquid applied damp proofing compounds and<br>barriers to water vapour and other gases or vapours.<br>Basement tanking. |
| R                    | Rigid sheets                | i timber  | Flooring of fibre and particle board  |
| R                    | Rigid sheets                | i metal   | Trench sheeting   |
| Y                    | Formless                    | q concrete<br>(u admixtures)  | Readymix concrete cast in situ<br>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 grouting and soil stabilisation   |
| Y                    | Formless                    | t fixing, jointing  | Joint fillers and seals   |
| X                    | Components                  | m inorganic fibre<br>n plastics   | Band and wick drains  |
| X                    | Components                  | * q concrete<br>h metal   | Steel or <u>concrete prefabricated culverts.</u>  |

11

## 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.

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.                          |
|-------------------|---|--|---|
| L Flexible sheets | n plastics<br>s bitumen<br>y composites | <p><b>MEMBRANES: Damp proofing sheets (for floor beds)</b></p> <p>Characteristics covered by the harmonised standard will be: water tightness, static perforation resistance and tensile strength as well as the durability of water tightness against chemicals and ageing/degradation.</p> <p>Additional characteristics for specific products:<br/>- Bitumen damp proof membranes<br/>tear resistance (for handling and installation)</p> | <p>33a, 32b, 32f, D2, D8</p> <p>+ 32m</p> |

| Characteristics to be in the harmonised standards  |   |
|--|---|
| 21a  | - Reaction to fire (only for exposed applications)  |
| 22g<br>22h   | - Reaction / Resistance to fire (for roof coverings)<br>* penetration<br>* spread of flame  |
| 33a  | - Water tightness   |
| 33b  | - Water vapour permeability   |
| 32b<br>32e<br>32f<br>32g<br>32i  | - Strength<br>* static perforation resistance<br>* joint<br>* tensile<br>* compressive creep<br>* root resistance (only for roof gardens) |
| 32d<br>32i<br>32m  | for handling and installation:<br>- Strength<br>* impact resistance<br>* pliability<br>* tear resistance                                  |
| D8   | - Durability of (21a) against:<br>* ageing/degradation  |
| D2   | - Durability of (33a) and (33b) against:<br>* chemicals (only when the product is intended to be used in contact with chemicals)          |
| D6<br>D8   | * weathering<br>* ageing/degradation  |
| <p><b>NB: Specifications should refer to general test methods developed for flexible sheets.</b></p> <p>Mechanical aspects (32b) to (32m) are not structural ones and should be taken into account only to ensure that the products maintain their performance related to (33a) and (33b).</p> |   |

15

|                                  |
|----------------------------------|
| Product family : Membranes (1/5) |
|----------------------------------|

### 1. Levels and classes for product performance

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

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

### 2. Systems of attestation of conformity

2.1 For the product 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 | Attestation of conformity system |
|--|---|---------------------|----------------------------------|
| Damp proofing sheets                                   | in floor beds in housing and basement tanking |                     | 3                                |
| System 3: See CPD Annex III.2.(ii), Second possibility |   |                     |                                  |

02/09/94

**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 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 :

- 33a Water tightness



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.*



## LIST OF PRODUCTS COVERED BY MANDATE 4/33

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

# TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

## Mandate 4

### PRODUCTS USED FOR EXTERNAL WALLS (INCLUDING CLADDING), INTERNAL WALLS AND PARTITIONS

| Form              | Materials               | Title   | Related charact.             |
|-------------------|-------------------------|---|------------------------------|
| L Flexible sheets | n plastics<br>s bitumen | <b>MEMBRANES: Damp proof courses</b><br><br>Characteristics covered by the harmonised standard will be: water tightness, impact resistance and pliability <i>(for handling and installation)</i> , compressive creep as well as the durability of water tightness against ageing/degradation. | 33a, 32d,<br>32i, 32g,<br>D8 |

| Characteristics to be in the harmonised standards   |  |
|---|--|
| 21a   | - Reaction to fire <i>(only for exposed applications)</i>  |
| 22g<br>22h  | - Reaction / Resistance to fire <i>(for roof coverings)</i><br>* penetration<br>* spread of flame  |
| 33a   | - Water tightness  |
| 33b   | - Water vapour permeability  |
| 32b<br>32e<br>32f<br>32g<br>32i   | - Strength<br>* static perforation resistance<br>* joint<br>* tensile<br>* compressive creep<br>* root resistance <i>(only for roof gardens)</i> |
| 32d<br>32i<br>32m   | <i>for handling and installation:</i><br>- Strength<br>* impact resistance<br>* pliability<br>* tear resistance                                  |
| D8  | - Durability of (21a) against:<br>* ageing/degradation   |
| D2  | - Durability of (33a) and (33b) against:<br>* chemicals <i>(only when the product is intended to be used in contact with chemicals)</i>          |
| D6<br>D8  | * weathering<br>* ageing/degradation   |
| <p>NB: Specifications should refer to general test methods developed for flexible sheets.</p> <p>Mechanical aspects (32b) to (32m) are not structural ones and should be taken into account only to ensure that the products maintain their performance related to (33a) and (33b).</p> |  |

(2)  
10

Mandate 4: External walls, internal walls and partitions. 9 September, 1994

| Form                 | Materials               | Title   | Related<br>charact.               |
|----------------------|-------------------------|---|-----------------------------------|
| L Flexible<br>sheets | n plastics<br>s bitumen | <b>MEMBRANES: Water vapour control layers</b><br><br>Characteristics covered by the harmonised standard will be: reaction to fire ( <i>only for exposed applications</i> ), water tightness, water vapour permeability, tensile strength, tear resistance ( <i>for handling and installation</i> ) as well as the durability of reaction to fire, water vapour permeability against ageing/degradation. | 21a, 33a,<br>33b, 32f,<br>32m, D8 |

40

|                                  |
|----------------------------------|
| Product family : Membranes (2/5) |
|----------------------------------|

**1. Levels and classes for product performances**

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

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

**2. Systems of attestation of conformity**

- 2.1 For the product 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 | Attestation of conformity system |
|--|------------------|---------------------|----------------------------------|
| Damp proof courses                                     | in masonry walls |                     | 3                                |
| System 3: See CPD Annex III.2.(ii), Second possibility |                  |                     |                                  |

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

- 3.1 The specification for the system should be such that it can be implemented even where performance does not need to be determined for a certain characteristic, because at least one Member State has no legal requirement at all for such characteristic [*see 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 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 :

- 33a Water tightness

|                                  |
|----------------------------------|
| Product family : Membranes (5/5) |
|----------------------------------|

**1. Levels and classes for product performances**

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

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

**2. Systems of attestation of conformity**

- 2.1 For the product 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<br>or class/es | Attestation<br>of conformity<br>system |
|--|--------------------|------------------------|--|
| Water vapour control layers                            | in roofs and walls |                        | 3                                      |
| System 3: See CPD Annex III.2.(ii), Second possibility |                    |                        |  |

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

- 3.1 The specification for the system should be such that it can be implemented even where performance does not need to be determined for a certain characteristic, because at least one Member State has no legal requirement at all for such characteristic [see 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 For the initial type testing of the product [Annex III.1.a) of the CPD] the task for the approved body will be limited to the following characteristics :

- 33b Water vapour permeability



75  
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.*

## LIST OF PRODUCTS COVERED BY MANDATE 7/33

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



# TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

## Mandate 7

### PRODUCTS USED FOR ROOFS

| Form              | Materials               | Title   | Related charact.                          |
|-------------------|-------------------------|---|---|
| L Flexible sheets | n plastics<br>s bitumen | <p><b>MEMBRANES: Underlays</b></p> <p>Characteristics covered by the harmonised standard will be: reaction to fire (<i>only for exposed applications</i>), water tightness, tensile strength, tear resistance (<i>for handling and installation</i>) as well as the durability of reaction to fire and water tightness against ageing/degradation.</p> <p>Additional characteristics for specific products:<br/>- Bitumen underlays<br/>  pliability (<i>for handling and installation</i>)</p> | <p>21a, 33a, 32f, 32m, D8</p> <p>+32i</p> |

| Characteristics to be in the harmonised standards  |  |
|--|--|
| 21a  | - Reaction to fire ( <i>only for exposed applications</i> )  |
| 22g<br>22h   | - Reaction / Resistance to fire ( <i>for roof coverings</i> )<br>* penetration<br>* spread of flame  |
| 33a  | - Water tightness  |
| 33b  | - Water vapour permeability  |
| 32b<br>32e<br>32f<br>32g<br>32l  | - Strength<br>* static perforation resistance<br>* joint<br>* tensile<br>* compressive creep<br>* root resistance ( <i>only for roof gardens</i> ) |
|  | <i>for handling and installation:</i>  |
| 32d<br>32i<br>32m  | - Strength<br>* impact resistance<br>* pliability<br>* tear resistance   |
| D8   | - Durability of (21a) against:<br>* ageing/degradation   |
| D2   | - Durability of (33a) and (33b) against:<br>* chemicals ( <i>only when the product is intended to be used in contact with chemicals</i> )          |
| D6<br>D8   | * weathering<br>* ageing/degradation   |
| <p><b>NB: Specifications should refer to general test methods developed for flexible sheets.</b></p> <p>Mechanical aspects (32b) to (32m) are not structural ones and should be taken into account only to ensure that the products maintain their performance related to (33a) and (33b).</p> |  |

| Form              | Materials               | Title   | Related charact.                  |
|-------------------|-------------------------|---|-----------------------------------|
| L Flexible sheets | n plastics<br>s bitumen | <b>MEMBRANES: Water vapour control layers</b><br><br>Characteristics covered by the harmonised standard will be: reaction to fire ( <i>only for exposed applications</i> ), water tightness, water vapour permeability, tensile strength, tear resistance ( <i>for handling and installation</i> ) as well as the durability of reaction to fire, water vapour permeability against ageing/degradation. | 21a, 33a,<br>33b, 32f,<br>32m, D8 |

80

ANNEX 3

|                                  |
|----------------------------------|
| Product family : Membranes (3/5) |
|----------------------------------|

**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 | Attestation of conformity system |
|---|---|---------------------|----------------------------------|
| Roof underlays  | in roofs  | A-B-C               | 1                                |
| Water vapour control layers   | in roofs and walls for applications exposed to fire | D-E                 | 2+                               |
| System 1: See CPD Annex III.2.(i), without audit-testing of samples<br>System 2+ : See DPC Annex III.2.(ii), First possibility, including certification of the factory production control by an approved body |   |                     |                                  |

**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, 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....**

An initial type testing of the product by an approved body shall be required by the manufacturer and shall cover the following characteristics:

- 33a **Water tightness**
- 33b **Water vapour permeability (if relevant)**

3.3 Regarding products fitting under system 2+, for the certification of the factory production control, only parameters related to the following characteristics shall be of the interest of the interest of the approved body:

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

The initial inspection of the factory and factory production control shall cover the following characteristics:

- 33a **Water tightness**
- 33b **Water vapour permeability (if relevant)**



Brussels, 7.09.1994

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

## LIST OF PRODUCTS COVERED BY MANDATE 15/33

| FAMILIES OF PRODUCTS             |                       | PRODUCTS FOR CONSIDERATION<br>(INCLUDING PRODUCTS<br>INTENDED TO BE INCORPORATED<br>IN SYSTEMS / INSTALLATIONS) |  |
|----------------------------------|-----------------------|---|--|
| FORM                             | MATERIALS             |   |  |
| - L Flexible sheets              | h metals              |   | Sheet metal - lead, zinc, copper, aluminium, stainless steel   |
| M Malleable sheets               | * n plastic (foamed)  |   | <u>Polymer membranes (e.g. PVC, EPDM)</u>  |
|                                  | * s bitumen           |   | <u>Bitumen bonded felts - built up roofing</u>   |
|                                  |                       |   | <u>Single layer roofing</u>  |
|                                  |                       |   | <u>Include flashings</u>   |
| N Rigid overlapping sheets/tiles | e stone               |   | Roofing tiles or overlapping planks of stone (e.g. slate), concrete, clay, metal, timber shingles, plastics, |
| H Sections                       | f concrete cast stone |   | bitumen bonded fibre, fibre cement   |
|                                  | g clay                |   | Include special tiles e.g. ridge tiles, ventilation tiles  |
|                                  | h metal               |   |  |
|                                  | i timber              |   |  |
|                                  | n plastics            |   |  |
|                                  | s bituminous          |   |  |
| R Rigid sheets                   | h metals              |   | Profiled sheets of metal, plastics, bitumen bonded fibre, fibre cement                                       |
|                                  | n plastics            |   | Plastics profile sheet (inc. translucent).   |
|                                  | s bituminous          |   | Accessories: ridges, eaves, gable, closers, gutters, valleys   |
|                                  | y composites          |   | Include composite or sandwich panels with insulation   |
| S Rigid tiles                    | e stone               |   | Roof pavings   |
|                                  | f concrete            |   |  |
|                                  | h metal               |   |  |
| Y Formless materials             | s bituminous          |   | Asphalt  |
|                                  | n rubber/plastics     |   | Mastic asphalt roofing   |
|                                  |                       |   | Liquid applied roof waterproofing (inc. polymers)  |
| Y Formless materials             | j org fibre           |   | Thatch   |
| Y Formless materials             | n plastics            |   | Sprayed external insulation systems  |
| Y Formless materials             | t fixing, jointing    |   | Adhesives and fixings for roof finishes  |
| X Components                     | h metals              |   | Mechanical fixings for roofing finishes.   |
|                                  | m plastics            |   | Roof ventilators   |

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 15

PRODUCTS USED FOR ROOF FINISHES

| Form              | Materials               | Title  | Related charact.  |
|-------------------|-------------------------|--|---|
| L Flexible sheets | n plastics<br>s bitumen | <b>MEMBRANES: Roof sheeting</b><br><br>Characteristics covered by the harmonised standard will be: reaction/resistance to fire (penetration, spread of flame) <i>(for roof coverings)</i> , water tightness, tensile strength, root resistance <i>(only for roof gardens)</i> , static perforation resistance, impact resistance and tear resistance <i>(for handling and installation)</i> as well as the durability of water tightness against weathering and ageing/degradation.<br><br>Additional characteristics for specific products:<br>- Bitumen roof sheeting<br>joint strength, pliability <i>(for handling and installation)</i> | 22g, h, 33a, 32f, 32i, 32b, 32d, 32m, D6, D8<br><br>+32e, 32i |

| Characteristics to be in the harmonised standards  |  |
|--|--|
| 21a  | - Reaction to fire <i>(only for exposed applications)</i>  |
| 22g<br>22h   | - Reaction / Resistance to fire <i>(for roof coverings)</i><br>* penetration<br>* spread of flame  |
| 33a  | - Water tightness  |
| 33b  | - Water vapour permeability  |
| 32b<br>32e<br>32f<br>32g<br>32i  | - Strength<br>* static perforation resistance<br>* joint<br>* tensile<br>* compressive creep<br>* root resistance <i>(only for roof gardens)</i> |
| 32d<br>32i<br>32m  | <i>for handling and installation:</i><br>- Strength<br>* impact resistance<br>* pliability<br>* tear resistance                                  |
| D8   | - Durability of (21a) against:<br>* ageing/degradation   |
| D2   | - Durability of (33a) and (33b) against:<br>* chemicals <i>(only when the product is intended to be used in contact with chemicals)</i>          |
| D6<br>D8   | * weathering<br>* ageing/degradation   |
| NB: Specifications should refer to general test methods developed for flexible sheets.<br><br>Mechanical aspects (32b) to (32m) are not structural ones and should be taken into account only to ensure that the products maintain their performance |  |

133

134

ANNEX 3

Product family : Membranes (4/5)

**1. Levels and classes for product performances**

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

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

**2. Systems of attestation of conformity**

2.1 For the product 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 | Attestation of conformity system |
|--|--------------|---------------------|----------------------------------|
| Roof sheets  | in roofs     |                     | 2+                               |
| System 2+ : See DPC Annex III.2.(ii), First possibility, including certification of the factory production control by an approved body |              |                     |                                  |



**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 For the certification of the factory production control, parameters related to the following characteristics shall be of the interest of the approved body:

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

The initial inspection of factory and factory production control shall cover also the following characteristics:

- 33a            **Water tightness**