



**Secretariat CEN/TC 33**

"Portes, fenêtres, fermetures, quincaillerie de bâtiment et façades rideaux"

"Doors, windows, shutters, building hardware and curtain walling"

"Türen, Tore, Fenster, Abschlüsse, Baubeschläge und Vorhangfassaden"

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**ROOF COVERING, ROOFLIGHTS,  
ROOF WINDOWS  
AND ANCILLARY PRODUCTS**

**1) Mandate M/122**

**2) Answer to the Mandate M/122 by  
CEN/TC 33**

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# Mandate M/122: ROOF COVERING, ROOFLIGHTS, ROOF WINDOWS AND ANCILLARY PRODUCTS.

## Technical Committees involved

<b>CEN/TC 33</b>	Doors, windows, shutters and building hardware.
<b>CEN/TC 128</b>	Roof covering products for discontinuous laying and products for wall cladding
<b>CEN/TC 178</b>	Paving units and kerbs
<b>CEN/TC 209</b>	Zinc and zinc alloys
<b>CEN/TC 306</b>	Lead and lead alloys
<b>CEN/TC 314</b>	Mastic asphalt for waterproofing

# **Mandate M/122**

**MANDATE TO CEN/CENELEC**

**CONCERNING THE EXECUTION OF STANDARDISATION WORK**

**FOR HARMONIZED STANDARDS ON**

**ROOF COVERINGS, ROOFLIGHTS, ROOF  
WINDOWS AND ANCILLARY PRODUCTS**

# Mandate M/122: ROOF COVERINGS, ROOFLIGHTS, ROOF WINDOWS AND ANCILLARY PRODUCTS

## Mandate M/122

MANDATE TO CEN/CENELEC

CONCERNING THE EXECUTION OF STANDARDISATION WORK

FOR HARMONIZED STANDARDS ON

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# ROOF COVERINGS, ROOFLIGHTS, ROOF WINDOWS AND ANCILLARY PRODUCTS

RELATED TO THE FOLLOWING END USES :

7/33 : Roofs

9/33 : External and internal doors and windows, roof openings and rooflights

15/33 : Roof finishes

*In order to fulfill the provisions of article 7.1 of the CPD the present mandate has been structured in the following way:*

### Foreword

**Chapter I** : Grounds. General conditions within the framework of the CPD.

**Chapter II** : Execution of the mandate. Conditions regarding the programming, development and execution of the standardisation work.

**Chapter III** : Harmonised standards. Conditions regarding the content and the presentation of the harmonised standards.

### Annex 1

### Annex 2

### Annex 3

### Annex 4

# FOREWORD

*This mandate is issued by the Commission to CEN/CENELEC within the context of the Council Directive of 21 December, 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products (89/106/EEC), hereafter referred to as "the Directive" or "the CPD".*

*One of the aims of the Directive being the removal of technical barriers to trade in the construction field, in so far as they cannot be removed by means of mutual recognition among Member States, it seems appropriate that standardisation mandates cover, at least during a first phase of the mandating programme, construction products likely to be subject to technical barriers to trade.*

*This mandate is intended to lay down provisions for the development and the quality of harmonised European standards in order, on the one hand, to make "approximation" of national laws, regulations and administrative provisions (hereafter referred to as "regulations") possible and, on the other hand, to allow products conforming to them to be presumed to be fit for their intended use, as defined in the Directive.*

*In this respect, this mandate takes account of the basic principles prevailing in the regulations of Member States, particularly those described in chapters 3 and 4.2 of the Interpretative documents, to which standardisers must refer. As stated by the Directive, the responsibility Member States have for construction works on their territory remains unchanged.*

*In order to fulfil the provisions of article 7.1 of the CPD the present mandate has been structured in the following way:*

*Chapter I Grounds. General conditions within the framework of the CPD.*

*Chapter II Execution of the mandate. Conditions regarding the programming, development and execution of the standardisation work.*

*Chapter III Harmonised standards. Conditions regarding the content and the presentation of the harmonised standards.*

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## CHAPTER I

### GROUND

**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. It replaces any previous mandate on the same products formerly issued on a provisional base by the Commission.**

**This mandate is based on article 7 of the Directive and has taken into consideration the Interpretative Documents 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 to be used in ROOFS, EXTERNAL AND INTERNAL DOORS AND WINDOWS, ROOF OPENINGS AND ROOFLIGHTS, ROOF FINISHES, enabling the works to satisfy the essential requirements set out in [annex 1](#) of the Directive, provided that barriers to trade in these products exist and that the products fall within the scope of article 2.1 of the Directive;**

Levels or classes of requirements for the works are under the responsibility of Member States and are not covered by the present mandate. As a consequence, they are not expected to be defined in the harmonised standard.

Levels or classes of requirements for the products may be determined either in the Interpretative Documents or according to the procedure provided for in article 20 (2) of the Directive. In either case, where levels or classes of requirements for products 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 using classes of convenience introduced by European standards. Articles 3.2 and 6.3 of CPD do not apply to such classes.

The harmonised standards resulting from this mandate must allow for products to comply with them 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. Declaration of performance for such a characteristic, in this case, must not be imposed on the manufacturer if he does not wish to declare it.

Indications regarding the documents which should be taken into account to inform standardisers and manufacturers on national and harmonised legislation on substances classified as dangerous are given in [Annex 4](#).

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## CHAPTER II

### EXECUTION OF THE MANDATE

CEN/CENELEC will present the Commission with a detailed work programme, at the latest, three months after approval of 83/189 Committee.

The work programme should identify clearly the list of harmonised standards to be developed. For each harmonised standard it should :

- indicate the name(s) of the product(s) to be covered;

- define the characteristics, durability aspects, intended uses and the forms and materials to be covered (in accordance with Annexes 1, 2 and 3 of this mandate);

- attach the list of supporting documents (e.g. work items on test methods, ...);

- justify the timetable foreseen for its finalisation; and

- identify the Technical Committee(s) responsible for the work.

Clear differentiation should be made between the item to become the harmonised standard for the product and the items to be used as supporting documents.

When a supporting test standard for one characteristic does not exist or is not in the work programme of the TC, a clear statement should be presented indicating whether CEN is able to produce one or not.

Any proposals for the addition of products, intended uses and materials and forms not included in the mandate but considered relevant by the TC should be presented separately from the work programme for further analysis by the Commission services. Standards prepared for products outside this mandate will not achieve the status of harmonised standards. In addition to the provisions of article 4.1 of the CPD, it must be taken into account that all the products included in the mandate have a system of attestation of

conformity in accordance with the relevant Decision of the Commission; those products not included have not.

Any proposal for the addition of characteristics and durability aspects not included in the mandate but considered relevant by the TC should be proposed in a special chapter of the work programme for further analysis by the Commission services.

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 for its implementation.

CEN/TCs must give a technical answer for the determination of the characteristics of the mandate taking into account the conditions stated below; test methods suggested must be directly related to the relevant required characteristic and must not make reference to determination methods for characteristics not required by the mandate. Durability requirements should be dealt with in the framework provided by the state of the art at present.

Reference to test/calculation methods must be in accordance with the harmonisation aimed at. In general, only one method should be referred to for the determination of each characteristic, for a given product or family of products.

If, however, for a product or family of products because of justifiable reasons, more than one method is to be referred to for the determination of the same characteristic, the situation must be justified. In this case all referenced methods should be linked by the conjunction "or" and an indication of application should be given.

In any other case, two or more test/calculation methods for the determination of one characteristic can be accepted only if a correlation between them exists or can be developed. The relevant harmonised product standard must then select one of them as the method of reference.

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

Within the work programme, CEN/CENELEC will also specify those cases where the performance-based approach will not be followed in the harmonised standard and will give the relevant justification.

After examination of the work programme and consultations with CEN/CENELEC, the Commission services 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 or supporting standards.

The terms of reference of this mandate may be subject to modification or addition, if necessary. Acceptance of the work programme by the Commission services does not imply acceptance of all the WIs listed as supporting standards. TCs will need to demonstrate the direct link between WIs and the needs for harmonisation of the products, intended uses and characteristics given in the mandate. Nor does acceptance exclude the possibility for further WIs to be added by CEN, in order to fully respond to the terms of the mandate

Representatives of the authorities responsible for national regulations have the right and shall 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 of the harmonised standards.

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

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

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.

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

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.

Acceptance of this mandate by CEN/CENELEC can take place only after the work programme has been endorsed by the Commission services.

CEN/CENELEC will develop the draft harmonised European standards and of the relevant supporting standards on the basis of the work programme and will inform the Commission in good time that the draft is being circulated for public comment.

CEN/CENELEC will present the final drafts of the harmonised European standards and of the relevant supporting standards to the Commission services 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 II.2.d).

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 II.2.d)

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## CHAPTER III

### HARMONISED STANDARDS

Harmonised standards shall be prepared to allow those products listed in [Annexes 1](#) and [2](#) to be able to demonstrate the satisfaction of the essential requirements. One of the purposes of the Directive being 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.

The harmonised standard will contain :

A detailed scope and field of application

A detailed description of the product or family of products covered and the relevant intended uses of the different products;

The definition of the characteristics of the products listed in Annex 2 of the mandate (expressed in performance terms, as far as practicable) that are relevant to the satisfaction of the essential requirements;

The methods (calculation, test methods or others) or a reference to a 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 for the evaluation of conformity.

A minimum or a maximum level of a given characteristic that has to be met by the family of products or a product may be identified by the harmonised standard only if required by agreement of Member States expressed by positive vote under the procedure of article 20 .



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 harmonised European standards developed in parallel. CEN/CENELEC shall ensure consistency within the whole package.

A producer not wishing to meet a non-mandated European standard will be able to use the CE marking on his product by referring only to the relevant harmonised standard. On the other hand, if a non-mandated standard includes the entire content of the harmonised standard, compliance with the former standard will also give a presumption of conformity to the harmonised standard and will enable the bearing of the CE marking.

In the latter case, an appropriate system should be established in the European standard in order to clearly distinguish the CPD-related content from the remaining part of the standard. Harmonised standards must 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.

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 requirements". As far as practicable and depending on the intended use mentioned in the annexes of this mandate, 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](#). If the durability is expressed in terms of classes of periods, articles 3.2 and 6.3 of the CPD will not apply.

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 mentioned in the annexes of this mandate and, if any, the different levels or classes of performance;

- cases of individual (non series) production according to Article 13.5 of the Directive;

- the recommendations of paragraph 3 of [Annex 3](#)

The label accompanying the CE marking will list all the characteristics to be declared according to the declared intended uses mentioned in the annexes of this mandate. In order to take into account existing regulations on products where performance for one or more characteristics may not be required, the label should allow the manufacturer the application of the "No performance determined" case for that or those characteristics.

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# ANNEX 1

## FIELD OF APPLICATION

## ROOF COVERINGS, ROOFLIGHTS, ROOF WINDOWS AND ANCILLARY PRODUCTS

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### TO BE USED IN :

7/33 : Roofs

9/33 : External and internal doors and windows, roof openings and rooflights

15/33 : Roof finishes

FORM	MATERIALS	PRODUCTS FOR CONSIDERATION
Large rigid sheets	plastics (eg GRP, PVC, PC, PMMA ...) metal wood concrete fibre cement glass * bituminous composites organic fibres inorganic fibres	Flat and profiled sheets (opaque and transparent / translucent, including rigid underlays) Factory-bonded composite or sandwich panels (with / without insulation) Fascias and soffit boards Accessories (eg ridges, valleys, flashings)
Medium and small rigid sheets; Rigid tiles; Sections	stone (natural and manufactured) slate concrete fibre cement clay metal glass wood plastics bitumen / composites	Roofing tiles, slates, stones, shingles and sheets Special tiles (eg ridge tiles, ventilation tiles, valley tiles) Roof pavings (as the external covering or ballast) Insulating panels (for inverted roofs) *
Flexible sheets Malleable sheets	plastics bitumen / composites metal	Sheet metal Thermoplastic, elastomeric and sealing sheets, jointing tapes, flashings * Bitumen bonded felts - built up roofing * Flexible underlays, membranes *
Components (incl prefabricated)	metal wood plastics rubber glass concrete clay fixing, jointing	Roof and eaves ventilators (not incl machinery) † Components for drainage systems, roof outlets, eaves gutters etc † Rooflights <sup>1</sup> (individual and continuous, incl. eg skylights, roof domes, ...), and ancillary products (eg upstands) Roof windows Access systems, walkways and footholds Safety hooks and anchorages Mechanical fixings for roofing coverings
Formless	organic	Mastic asphalt roofing

	<b>fibres/coatings inorganic fibres/coatings bituminous plastics concrete stone</b>	<b>Thatch † Chippings, pebbles, gravel † Sprayed external insulation systems *</b>
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\* included in other mandates and not considered here ; † no characteristics relevant to essential requirements

<sup>1</sup> Not including self-supporting translucent roof kits/ systems (mandate to EOTA)

## ANNEX 2

### TECHNICAL TERMS OF REFERENCE

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*Note : not all of the characteristics shown in the following tables will be relevant for every product in a particular family or sub-family. CEN/CENELEC should select the subset of characteristics applicable to a particular product from the full set provided.*

## ROOF COVERINGS, ROOFLIGHTS, ROOF WINDOWS AND ANCILLARY PRODUCTS

TO BE USED IN :

7/33 : Roofs

9/33 : External and internal doors and windows, roof openings and rooflights

15/33 : Roof finishes

Family and subfamilies
<b>A - ROOF COVERINGS (I)</b>
Discontinuously laid roof covering products used to form the continuous part of the roof. Delivered in the form of manufactured pieces, or flexible sheets, they play a major role in the prevention of water penetration, and may contribute to the mechanical strength of the roof, or not.

1. FLAT AND PROFILED SHEETS (rigid or flexible, opaque or transparent / translucent, including rigid underlays)
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2. ROOFING TILES, SLATES , STONES AND SHINGLES
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3. FACTORY-BONDED COMPOSITE OR SANDWICH PANELS (with / without insulation)
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Characteristics to be covered by the harmonized standard will be :

E R	PERFORMANCE CHARACTERISTICS	DURABILITY
1, 4	Racking resistance (where the covering has a stiffening function) Mechanical resistance (eg resistance to wind, snow, permanent, thermal and live loads, bending strength, ... as relevant to the type of product)	Y
2	External fire performance Resistance to fire (from below, if relevant) Reaction to fire (when exposed to an internal fire)	(eg. against freeze thaw, corrosion, temperature, ... as relevant)
3	Water permeability (for the product itself) Dimensional variation (relating to water penetration) Vapour permeability (as relevant to the type of product) Release of asbestos [content] Release of other dangerous substances * (as relevant)	.
4	Impact resistance (as relevant to the type of product)	.

5	Direct airborne sound insulation (as relevant to the type of product)	.
6	Thermal properties (as relevant to the type of product)	.

	<b>Air permeability (as relevant to the type of product)</b>	
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\* in particular, those dangerous substances defined in Council Directive 76/769/EEC, as amended.

Family and subfamilies
<b>B - ROOF COVERINGS (II)</b> Mastic asphalt roofing products, playing a major role in the prevention of water penetration, but not contributing to the mechanical strength of the roof. For use in non-trafficked areas.

#### 4. MASTIC ASPHALT ROOFING

Characteristics to be covered by the harmonized standard will be :

E R	PERFORMANCE CHARACTERISTICS	DURABILITY
1		Y
2	External fire performance	.
3	Water tightness	(eg. against UV, temperature, ... as relevant)
4	Resistance to wind and snow loads	.
5	.	.
6	.	.

Family and subfamilies
<b>C - ROOF COVERINGS (III)</b> Discontinuously laid roofing products, playing no role in the prevention of water penetration, nor contributing to the mechanical strength of the roof.

#### 5. ROOF PAVINGS (as the external covering or ballast)

Characteristics to be covered by the harmonized standard will be :

E R	PERFORMANCE CHARACTERISTICS	DURABILITY
1	.	Y
2	External fire performance	.
3	.	.
4	.	.
5	.	.
6	.	.

Family and subfamilies
<b>D - ROOFLIGHTS AND ROOF WINDOWS</b>

<b>6. ROOFLIGHTS <sup>1</sup></b> Building elements which consist of one or several light transmitting (translucent or transparent) skins (vaulted, curved, pyramidal or flat) with or without an edge section. Can be fixed to an upstand or opening frame.
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#### 7. ROOF WINDOWS

Windows intended for installation in an inclined roof.

Characteristics to be covered by the harmonized standard will be :

E R	PERFORMANCE CHARACTERISTICS	DURABILITY
1, 4	Mechanical resistance (eg resistance to wind, snow,	Y

	permanent and live loads, ... as relevant)	
2	External fire performance Resistance to fire (if intended specifically to provide fire resistance) Reaction to fire	.
3	Water tightness	.
4	Impact resistance	.
5	Direct airborne sound insulation	.
6	Thermal resistance Radiation properties Air permeability	.

<sup>1</sup> Not including self-supporting translucent roof kits/ systems (mandate to EOTA)

Family and subfamilies		
E - ANCILLARY PRODUCTS		
Prefabricated accessories.		

**8. ROOF ACCESS SYSTEMS, WALKWAYS AND FOOTHOLDS** (Building elements with a platform to stand or to walk on with one or more supports permanently fixed by means of associated fastening systems to the load bearing construction of a roof. Includes walkways, treads and steps.)

**9. ROOF SAFETY HOOKS AND ANCHORAGES** (Building elements on a roof surface used for securing persons and fixing loads predominately used for the maintenance and repair of roof coverings.)

**10. FASCIAS AND SOFFIT BOARDS**

**11. MECHANICAL FIXINGS FOR ROOF COVERINGS**

**12. ACCESSORIES FOR ROOF COVERINGS** (eg ridges, valleys, rigid flashings)

Characteristics to be covered by the harmonized standard will be :

E R	PERFORMANCE CHARACTERISTICS	DURABILITY
1		Y
2	External fire performance (8, 12 only) Reaction to fire (10 only)	.
3	Water permeability (for the product itself) (9, 10, 12 only)	.
4	Mechanical resistance (eg resistance to wind, snow, permanent and live loads, ... as relevant) (8, 9, 11 only) Impact resistance (8 only)	.
5	.	.
6	.	.

#### COMPREHENSIVE TABLE OF CHARACTERISTICS

#### ROOF COVERINGS, ROOFLIGHTS, ROOF WINDOWS AND ANCILLARY PRODUCTS

*Note : not all of the characteristics shown in the following tables will be relevant for every product in a particular family or sub-family. CEN/CENELEC should select the subset of characteristics applicable to a particular product from the full set provided.*

		Family / Sub-family												Durability
		A			B	C	D		E					
E.R.	PERFORMANCE CHARACTERISTICS	1	2	3	4	5	6	7	8	9	10	11	12	

1, 4	Racking resistance	Y	Y	Y	.	.	.	.	.	.	.	.	.	Y
.	Mechanical resistance	Y	Y	Y	Y	.	Y	Y	Y	Y	.	Y	.	.
2	External fire performance	Y	Y	Y	Y	Y	Y	Y	Y	.	.	.	Y	.
.	Resistance to fire	Y	Y	Y	.	.	Y	Y	.	.	.	.	.	.
.	Reaction to fire	Y	Y	Y	.	.	Y	Y	.	.	Y	.	.	.
3	Water permeability or water tightness	Y	Y	Y	Y	.	Y	Y	.	Y	Y	.	Y	.
.	Dimensional variation	Y	Y	Y	.	.	.	.	.	.	.	.	.	.
.	Release of asbestos [content]	Y	Y	Y	.	.	.	.	.	.	.	.	.	.
.	Release of other dangerous substances *	Y	Y	Y	.	.	.	.	.	.	.	.	.	.
.	Vapour permeability	Y	Y	Y	.	.	.	.	.	.	.	.	.	.
4	Impact resistance	Y	Y	Y	.	.	Y	Y	Y	.	.	.	.	.
5	Direct airborne sound insulation	Y	Y	Y	.	.	Y	Y	.	.	.	.	.	.
6	Thermal properties	Y	Y	Y	.	.	Y	Y	.	.	.	.	.	.
.	Radiation properties	.	.	.	.	.	Y	Y	.	.	.	.	.	.
.	Air permeability	Y	Y	Y	.	.	Y	Y	.	.	.	.	.	.

\* in particular, those dangerous substances defined in Council Directive 76/769/EEC, as amended

## ANNEX 3

### ATTESTATION OF CONFORMITY

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***Note : for products having more than one of the intended uses specified in the following families, the tasks for the approved body, derived from the relevant systems of attestation of conformity, are cumulative.***

Product family :

### **Roof coverings, rooflights, roof windows and ancillary products (1/6)**

#### **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 and of resistance to fire.**

**Regarding reaction to fire, CEN/CENELEC are requested to follow the Commission Decision 94/611/EC [O.J. L 241 of September 1994] and make reference to the standard(s) to be prepared under Commission mandate to CEN/CENELEC "Horizontal complement to the 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.**

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

**1.2 Reaction to fire and resistance to fire are risks for which the need for classification systems has been identified for the time being.**

**Further needs may be identified on the basis of differences specified in Article 3 (2) of the CPD, which are justified in conformity with Community law (IDs Clause 1.2.1).**

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

#### **2. Systems of attestation of conformity**

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



Product(s)	Intended use(s)	Level(s) or class(es) (fire resistance)	Attestation of conformity system(s)
Flat and profiled sheets Roofing tiles, slates , stones and shingles Factory-bonded composite or sandwich panels Rooflights Roof windows	for uses subject to resistance to fire regulations (eg fire compartmentation)	any	3
System 3: See CPD Annex III.2.(ii), Second possibility			

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

3.1 The specification for the system should be such that it can be implemented even where performance does not need to be determined for a certain characteristic, because at least one Member State has no legal requirement at all for such characteristic [see the "no performance determined" case under Article 2.1 of the CPD and when article 3.2 classes apply, 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 falling under systems 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, where relevant :

Resistance to fire

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Product family :

## Roof coverings, rooflights, roof windows and ancillary products (2/6)

### 1. Levels and classes for product performances

1.1 [ text as for family (1/6) ]

1.2 [ text as for family (1/6) ]

### 2. Systems of attestation of conformity

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

Product(s)	Intended use(s)	Level(s) or class(es) (reaction to fire)	Attestation of conformity system(s)
Flat and profiled sheets Roofing tiles, slates , stones and shingles Factory-bonded composite or sandwich panels Rooflights Roof windows Fascias and soffit boards	for uses subject to reaction to fire regulations	(A, B, C)* (A, B, C)** A***, D, E, F	1 3 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 production (In general, those subject to chemical modification, e.g. fire retardants, or where changes of composition may lead to changes in reaction to fire performance)

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

\*\*\* Materials of class A that according to the Decision 96/603 do not require to be tested for reaction to fire.

### 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 under Article 2.1 of the CPD and when article 3.2 classes apply, 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 falling under systems 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, where relevant :

Euroclasses characteristics for reaction to fire as indicated in Commission Decision 94/611/EC

3.3 For products falling under system 1, regarding the continuous surveillance, assessment and approval of the factory production control [see Annex III.1.g) of the CPD], parameters related to the following characteristics shall be of the interest of the approved body, where relevant :

Euroclasses characteristics for reaction to fire as indicated in Commission Decision 94/611/EC

3.4 Regarding products falling under 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, where relevant :

Euroclasses characteristics for reaction to fire as indicated in Commission Decision 94/611/EC

Product family :

## Roof coverings, rooflights, roof windows and ancillary products (3/6)

### 1. Levels and classes for product performances

1.1 [ *text as for family (1/6)* ]

1.2 [ *text as for family (1/6)* ]

### 2. Systems of attestation of conformity

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

Product(s)	Intended use(s)	Level(s) or class(es)	Attestation of conformity system(s)
<b>Flat and profiled sheets</b> <b>Roofing tiles, slates , stones and shingles</b> <b>Factory-bonded composite or sandwich panels</b> <b>Mastic asphalt roofing</b> <b>Roof pavings</b> <b>Rooflights</b> <b>Roof windows</b> <b>Roof access systems, walkways and footholds</b> <b>Accessories for roof coverings</b>	<b>for uses subject to external fire performance regulations</b>	<b>products requiring testing</b> ----- <b>products "deemed to satisfy" without testing</b> *	<div style="text-align: center;"> <b>3</b>            -----  <b>4</b> </div>
<b>System 3: See CPD Annex III.2.(ii), Second possibility</b> <b>System 4 : See CPD Annex III.2.(ii), Third possibility</b>			

\* to be confirmed in discussions with the Fire Regulators Group

### 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 under Article 2.1 of the CPD and when article 3.2 classes apply, 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 falling under 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, where relevant :

External fire performance

Product family :

## Roof coverings, rooflights, roof windows and ancillary products (4/6)

### 1. Levels and classes for product performances

1.1 [ *text as for family (1/6)* ]

1.2 [ *text as for family (1/6)* ]

### 2. Systems of attestation of conformity

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

Product(s)	Intended use(s)	Level(s) or class(es)	Attestation of conformity system(s)
Flat and profiled sheets Factory-bonded composite or sandwich panels Rooflights Roof windows	for uses contributing to stiffening the roof structure	-	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 under Article 2.1 of the CPD and when article 3.2 classes apply, 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 falling under 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, where relevant :

Racking resistance (where relevant)

Mechanical resistance (as relevant to the type of product)

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Product family :

## Roof coverings, rooflights, roof windows and ancillary products (5/6)

### 1. Levels and classes for product performances

1.1 [ *text as for family (1/6)* ]

1.2 [ text as for family (1/6) ]

**2. Systems of attestation of conformity**

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

Product(s)	Intended use(s)	Level(s) or class(es)	Attestation of conformity system(s)
All roof coverings, rooflights, roof windows and ancillary products	for uses subject to regulations on dangerous substances *	-	3
System 3: See CPD Annex III.2.(ii), Second possibility			

\* in particular, those dangerous substances defined in Council Directive 76/769/EEC, as amended.

**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 under Article 2.1 of the CPD and when article 3.2 classes apply, 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 falling under 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, where relevant :

Release of dangerous substances \* [content]

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**Product family :**

**Roof coverings, rooflights, roof windows and ancillary products (6/6)**

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

1.1 [ text as for family (1/6) ]

1.2 [ text as for family (1/6) ]

**2. Systems of attestation of conformity**

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

Product(s)	Intended use(s)	Level(s) or class(es)	Attestation of conformity system(s)
Flat and profiled sheets Roofing tiles, slates , stones and shingles Factory-bonded composite or sandwich panels Roof pavings Fascias and soffit boards Mechanical fixings for roof coverings Accessories for roof coverings	for uses other than those specified in families (1/6), (2/6), (3/6), (4/6), (5/6)	-	4
Roof access systems, walkways and footholds Roof safety hooks and anchorages Mastic asphalt roofing Roof windows Rooflights <sup>2</sup>	for uses other than those specified in families (1/6), (2/6), (3/6), (4/6), (5/6)	-	3
System 3: See CPD Annex III.2.(ii), Second possibility System 4 : See CPD Annex III.2.(ii), Third possibility			

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

3.1 The specification for the system should be such that it can be implemented even where performance does not need to be determined for a certain characteristic, because at least one Member State has no legal requirement at all for such characteristic [see the "no performance determined" case under Article 2.1 of the CPD and when article 3.2 classes apply, 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 falling under 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, where relevant :

**For roof access systems, walkways and footholds :**

**For roof safety hooks and anchorages :**

Mechanical resistance (as relevant to the type of product)

**For mastic asphalt roofing :**

Watertightness

**For roof windows :**

**For rooflights :**

Watertightness

Thermal properties

Direct airborne sound insulation

Air permeability

Impact resistance

## ANNEX 4

### DANGEROUS SUBSTANCES

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European Technical Specifications must be adopted taking into account the necessary legislation on substances classified as dangerous.

This results from the Interpretative Documents, where it is noted in the introduction note to all six Interpretative Documents, that :

*"Concerning dangerous substances which are in construction products, classes and/or levels of performance to which technical specifications will refer, shall allow the levels of protection needed by the works to be guaranteed, taking into account the purpose of the works."*

In addition, outside the scope of the Directive, writers of technical specifications must take into account legislation which affects material to be used for construction products, and which are regulated for reasons not related to the incorporation into the works of the construction products.

In order to permit technical specification writers to take into account the necessary legislation, a working document was elaborated by the Commission services (doc. CONSTRUCT 95/148 Rev.1 of January 4, 1996). Specification writers should use this document as a guide but must also take account of any other relevant legislation or dangerous substances which the working document does not yet include.

**Answer to the Mandate M/122 by CEN/TC 33**

**ROOFLIGHTS, ROOF WINDOWS  
AND ANCILLARY PRODUCTS**



**CEN/TC 33/WG 1 answer to the mandate M/122**

**"Roof coverings, rooflights, roof windows and ancillary products"**

(This answer only covers "roof windows"; the other product families are covered by the answer prepared by CEN/TC 128, cf. TC 128 N 560 E rev. 2, June 1999).

**Introduction**

In the mandate M/122 roof windows are defined as "windows intended for installation in an inclined roof" (subfamily D.7).

This definition is in line with the present practice. Modern roof windows have the same field of application as "ordinary" windows, and legal and commercial requirements as well as the test methods are in principle the same.

Therefore, CEN/TC 128/SC 9 has requested CEN/TC 33/WG 1 to prepare the necessary harmonised (and voluntary) standards, cf. TC 128/SC 9 resolution 23 (Berlin 1997-3), and CEN/TC 33 has accepted this request, cf. TC 33 resolution 265 (97-5).

Consequently, the answer to the mandate M/122 is to be prepared by TC 33/WG 1; the answer prepared by TC 128 does not cover "roof windows", cf. TC 128 N 560 E rev. 2, clause 0.3.3.

**0. General comments**

Reference is made to CEN/TC 33 N 1100.

**D.7 Roof windows**

In order to facilitate the examination, the answer is in line with the answer prepared by TC 128.

The technical contents correspond to TC 33 N 1100.

D.7	ROOF WINDOWS*	TC 33/WG 1
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\*) Windows intended for installation in an inclined roof.

#### **D.7.1 Harmonized product standard**

Work item 0033231

Based on TC 33 N 1162, Rev. 1  
 Stage 40 to be launched by 1999-06  
 Stage 49 to be launched by 2000-06  
 Date of availability: .....  
 (The dates are subject to revision)

This standard will be prepared by TC 33/WG 1 in line with doc TC 33 N 1100 and N 1125. It will be incorporated in the harmonized product standard for internal and external windows.

- (i) **Title:** Internal and External windows - Specifications - Classification by families according to the intended uses.
- (ii) **Scope:** This European standard is a material independent performance standard. It applies to windows ready to install in an inclined roof, provided complete with related hardware, with cut to size panes, with or without incorporated shutters and blinds. The windows may be fixed, openable, or partly fixed and may be used as part of fire compartmentation.

**This standard does not include:** Calculation with regard to works, design requirements and installation techniques.

- (iii) **Intended uses:** External windows, used for fire compartmentation, landing and communication, in domestic and commercial locations. The windows do not contribute to the stiffness of works.
- (iv) **Essential characteristics**

Ref.	Performance characteristics
1	Mechanical resistance (e.g. resistance to wind, snow, permanent, and live loads, ... as relevant)
2.1	External fire performance
2.2	Resistance to fire (if intended specifically to provide fire resistance)
2.3	Reaction to fire
3	Water tightness
4	Impact resistance
5	Direct airborne sound insulation
6.1	Thermal resistance
6.2	Radiation properties
6.3	Air permeability

- (v) **Durability aspects**

- Durability of water tightness against UV action (only for plastics), weathering and ageing/degradation
- Durability of thermal resistance against UV action (only for plastics), weathering and ageing/degradation
- Durability of air permeability against UV action (only for plastics), weathering and ageing/degradation.

- (vi) **Other aspects**

- References to other directives and compliance conditions applying to the products;
- References to the Commission's decision on attestation of conformity to be mentioned in the harmonized part; the evaluation of conformity rests voluntary;
- Guidance on the characteristics to be stated in the labelling accompanying the CE-marking and on the way of expressing the determined values of these characteristics.
- Clause on evaluation of conformity.

### **D.7.2 Supporting standards**

The following work items, prEN's or EN's are proposed as test or calculation methods for the determination of the essential characteristics required by the mandate and indicated above.

<b>Ref. 1</b>	<b>Mechanical resistance</b>	
	a) Snow and permanent loads	• Calculation methods are in course of preparation (TC 129/WG 8, WI 00129031)
	b) Wind load	• prEN 12211
<b>Ref. 2.1</b>	<b>External fire performance</b>	• List deemed to satisfy (in preparation) or • EN 1187
<b>Ref. 2.2</b>	<b>Resistance to fire</b> E (integrity) and I (insulation)	• prEN 1364-1
<b>Ref. 2.3</b>	<b>Reaction to fire</b>	• List of materials considered as class A without testing or • Relevant test and classification standards prepared by TC 127
<b>Ref. 3</b>	<b>Water tightness</b>	• prEN 1027
<b>Ref. 4</b>	<b>Impact resistance</b>	• prEN 13049
<b>Ref. 5</b>	<b>Direct airborne sound insulation</b>	• EN ISO 140-3 • EN ISO 717-1
<b>Ref. 6.1</b>	<b>Thermal resistance</b>	• prEN ISO 10077 (calculation) or • prEN ISO 12567 (test)
<b>Ref. 6.2</b>	<b>Radiation properties (g-value)</b> (glazing only)	• EN 410
<b>Ref. 6.3</b>	<b>Air permeability</b>	• prEN 1026
<b>Durability</b>		• prEN 513 (PVC - U-profiles)

### **D.7.3 Additional information, comments and remarks**

- Explanation of the state of the art concerning durability issues:  
Durability of water tightness, air permeability and thermal resistance against UV action and weathering are not tested on the windows, but results from the compliance of the constituting materials to the state of the art or where available to EN's specifying the material.
- Ref. 2.1 Roof windows made of "deemed-to-satisfy materials" are supposed to be "deemed to satisfy" too.
- Ref. 2.2 Resistance to fire: S (smoke leakage) is not relevant for roof windows.