



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"

CEN/TC 33 N 1300

Your correspondent : Nathalie GIRARDOT

03/03/04

Direct line : 33 1 42 91 59 88

Our Ref : NAG/IH

Le comité membre français :



**Association
Française de
Normalisation**

Tour Europe

92049 Paris La Défense Cedex

France

Accès : La Défense 2

Parking Les Corolles

Tél : 01 42 91 55 55

Tél ; international : +33 1 42 91 55 55

Télex : AFNOR 611 974 F

Fax : 01 42 91 56 56

Fax international : +33 1 42 91 56 56

Minitel : 3616 AFNOR

DOORS, WINDOWS, SHUTTERS, GATES AND RELATED BUILDING HARDWARE

1) Mandate M/101

TO CEN/CENELEC

CONCERNING THE EXECUTION OF STANDARDISATION WORK
FOR HARMONIZED STANDARDS ON

Amended by M/126 and M/130

2) Answer to the Mandate M/101 by CEN/TC 33

3) EC acceptance of CEN/TC 33 answer to the Mandate M/101

Association reconnue

d'utilité publique

Comité membre français

du CEN et de l'ISO

Siret 775 724 818 00015

Code NAF 751 E

Mandate M/101 Rev2: DOORS, WINDOWS AND RELATED PRODUCTS.

NOTE : Mandate 101 has been amended by M/126 and M/130

Technical Committee involved

CEN/TC 33	Doors, windows, shutters and building hardware
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Mandate M/101

TO CEN/CENELEC

CONCERNING THE EXECUTION OF STANDARDISATION WORK

FOR HARMONIZED STANDARDS ON

**DOORS, WINDOWS, SHUTTERS, GATES
AND RELATED BUILDING HARDWARE**

Mandate M/101

TO CEN/CENELEC

CONCERNING THE EXECUTION OF STANDARDISATION WORK

FOR HARMONIZED STANDARDS ON

EXTERNAL AND INTERNAL DOORS AND WINDOWS, ROOF OPENINGS AND ROOFS LIGHTS (INCLUDING FIRE DOORS AND SHUTTERS)

RELATED TO THE FOLLOWING END USES

09/33 External and internal doors and windows, roof openings and roofs lights (including fire doors and shutters)

Mandate M/101

TO CEN/CENELEC

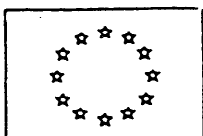
CONCERNING THE EXECUTION OF STANDARDISATION WORK

FOR HARMONIZED STANDARDS ON

EXTERNAL AND INTERNAL DOORS AND WINDOWS, ROOF OPENINGS AND ROOFS LIGHTS (INCLUDING FIRE DOORS AND SHUTTERS)

RELATED TO THE FOLLOWING END USES

**09/33 External and internal doors and windows, roof openings and roofs lights (including
fire doors and shutters)**



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

Brussels, 13.02.1995

CONSTRUCT 94/125

**MANDATE TO CEN/CENELEC
CONCERNING THE EXECUTION OF STANDARDISATION WORK
ON CONSTRUCTION PRODUCTS INTENDED TO BE USED FOR
EXTERNAL AND INTERNAL DOORS AND WINDOWS, ROOF OPENINGS
AND ROOFS LIGHTS (INCLUDING FIRE DOORS AND SHUTTERS)**

A. DESCRIPTION OF SPECIFIC MANDATES

I. FOREWORD

This mandate details the scope of one of the standardisation mandates issued by the Commission to CEN/CENELEC within the context of the Council Directive 89/106/EEC of December 21, 1988 concerning construction products, hereafter referred to as "the Directive".

The main aim of the Directive is the removal of technical barriers to trade in the construction field, to the extent that they cannot be removed by mutual recognition of equivalence among all the Member States. Therefore, in a first phase, the standardisation mandates will refer to products for which all of the two following conditions are fulfilled :

.../...

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

ANNEX 1

CONSTRUCT 94/122/9-33

LIST OF PRODUCTS COVERED BY MANDATE 9/33

FAMILIES OF PRODUCTS		PRODUCTS FOR CONSIDERATION (INCLUDING PRODUCTS INTENDED TO BE INCORPORATED IN SYSTEMS / INSTALLATIONS)	
FORM	MATERIALS		
H Sections, bars (for construction on site)	i wood o glass n plastic, rubber (glazing bead)		Frames: Aluminiums steels plastics timber Glazing: glass or plastics <u>Types of windows:</u> fixed, openables casement. louvre, sashes pivotings slidings tilt and turn Types of rooflights: skylights roof windows domelights barrel lights laylights northlights
X Prefabricated components	* f concrete * h metal * i timber * n plastic & rubber * o glass		<u>Types of doors:</u> fire doors and shutters. smoke stopping doors lift loading doors locked doors in escape routes swing doors automatic doors industrials industrial fires side hungs revolvings sliding and foldings half, garages roller shutters up and overs sliding partitions hatches. Associated products : <u>Automatic opening/ closing devices</u> Control and sliding gear <u>Safety devices on doors</u> <u>Locks and catches</u> <u>Panic bars</u> Glazing bars Ventilators Sills thresholds weatherbars linings subframes architraves and surrounds Draft strip Awnings shutters blinds Glazing beads

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 9

PRODUCTS USED FOR EXTERNAL AND INTERNAL DOORS AND WINDOWS, ROOF OPENINGS AND ROOF LIGHTS (INCLUDING FIRE DOORS AND SHUTTERS)

Form	Materials	Title	Related charact.
X Prefabricated components	h metal i wood n plastics o glass	<div style="border: 1px solid black; padding: 5px;"> DOORS AND WINDOWS WITH RELATED PRODUCTS: Windows with or without incorporated shutters and blinds </div> <p>Characteristics covered by the harmonised standard will be: rate of release of dangerous substances and thermal resistance (<i>only for uses where thermal insulation performance is required</i>).</p> <p>N.B.- shutters and blinds (placed on the market as such)</p> <p><i>For fire compartmentation uses:</i> resistance to fire E, I, smoke leakage S (<i>only for applications where limitation of smoke spread is required</i>)</p> <p>Additional characteristics for specific products:</p> <ul style="list-style-type: none"> - External windows including French windows water tightness, resistance to wind load, direct airborne sound insulation index (<i>only for uses where acoustic performance is required</i>), air permeability (<i>only for uses where thermal insulation performance is required</i>) as well as the durability of water tightness and air permeability against UV action, weathering and ageing/degradation. 	<p>34f, 61a</p> <p>only 43g applies</p> <p>+ 22b, 22c, 22f</p> <p>+ 33a, 43g, 51b, 61b, D4, D6, D8</p>

Characteristics to be in the harmonised standards	
22b	(only for fire compartmentation uses) - Resistance to fire E
22c	- Resistance to fire I
22f	- Smoke leakage S (only for applications where limitation of smoke spread is required)
23a	- Self closing C (only for self closing fire doors)
23b	- Ability to release (only for locked doors in escape routes)
33a	- Water tightness
34f	- Rate of release of dangerous substances (only for indoor impact)
42a	- Operating forces (safety in use) (only for automatic devices)
43c	- Impact resistance (only for glazed doors with injury risks)
43g	- Resistance to wind load
47c	- Height
51b	(only for uses where acoustic performance is required) - Direct airborne sound insulation index
61a	(only for uses where thermal insulation performance is required) - Thermal resistance
61b	- Air permeability
D4	- Durability of (33a), (61a) and (61b) against: * UV action (only for plastic products and joints)
D6	* weathering
D8	* ageing/degradation
D8	- Durability of (23a), (23b) and (42a) against: * ageing/degradation

Form	Materials	Title	Related charact.
X Prefabricated components	h metal	<div style="border: 1px solid black; padding: 5px;"> DOORS AND WINDOWS WITH RELATED PRODUCTS: Doors with or without Incorporated shutters and blinds </div>	34f, 43c, 47c, 51b
	i wood		
	n plastics		
	o glass		
		<p>Characteristics covered by the harmonised standard will be: rate of release of dangerous substances (<i>only for indoor impact</i>), impact resistance (<i>only for glazed doors with injury risk</i>), height and the direct airborne sound insulation index (<i>only for uses where acoustic performance is required</i>).</p> <p>N.B.- shutters and blinds (placed on the market as such)</p>	only 43g applies
		<p><i>For fire compartmentation uses:</i></p> <p>Characteristics covered by the harmonised standard will be: resistance to fire E, I, smoke leakage S (<i>only for applications where limitation of smoke spread is required</i>), self closing C (<i>only for self closing fire doors</i>), ability to release (<i>only for locked doors in escape routes</i>) as well as the durability of self-closing C and ability to release against ageing/degradation.</p>	22b, 22c, 22f, 23a, 23b, D8
		<p>Additional characteristics for specific products:</p> <ul style="list-style-type: none"> - Internal landing communication doors and doors for special uses operating forces (safety in use) (<i>only for automatic devices</i>) as well as its durability against ageing/degradation. 	+42a, D8
		<ul style="list-style-type: none"> - External doors water tightness, resistance to wind load, thermal resistance and air permeability (<i>only for uses where thermal insulation performance is required</i>) as well as the durability of water tightness, thermal resistance and air permeability against UV action, weathering and ageing/degradation. 	+ 33a, 43g, 61a, 61b, D4, D6, D8

Mandate 9: External and internal door and windows, roof openings and roof lights. 10 February, 1995

Form	Materials	Title	Related charact.
X Prefabricated components	h metal	<div>DOORS AND WINDOWS WITH RELATED PRODUCTS: Industrial, commercial, garage doors and gates</div> <p>Characteristics covered by the harmonised standard will be: water tightness, rate of release of dangerous substances, resistance to wind load, thermal resistance and air permeability (only for uses where thermal insulation performance is required) as well as the durability of water tightness, thermal resistance and air permeability against UV action, weathering and ageing/degradation.</p> <p><i>For fire compartmentation uses:</i> Characteristics covered by the harmonised standard will be: resistance to fire E, I, smoke leakage S (only for applications where limitation of smoke spread is required), self closing C (only for self closing fire doors), ability to release (only for locked doors in escape routes) as well as the durability of self-closing C and ability to release against ageing/degradation.</p> <p>Additional characteristics for specific products: - Power operated products (including automatic movement) operating forces (safety in use) (only for automatic devices)</p>	33a, 34f, 43g, 61a, 61b, D4, D6, D8
	i wood		
	n plastics		
	o glass		
			22b, 22c, 22f, 23a, 23b, D8
			+ 42a

TECHNICAL TERMS OF REFERENCE FOR THE MANDATE

Mandate 9

PRODUCTS USED FOR EXTERNAL AND INTERNAL DOORS AND WINDOWS, ROOF OPENINGS AND ROOF LIGHTS (INCLUDING FIRE DOORS AND SHUTTERS)

Form	Materials	Title	Related charact.
X Prefabricated components	h metal n plastics	<div style="border: 1px solid black; padding: 2px;">BUILDING HARDWARE:</div> <p>Characteristics covered by the harmonised standard will be: ability to release (<i>only for locked doors in escape routes</i>) and its durability against ageing/degradation.</p>	23b, D8

Characteristics to be in the harmonised standards	
22b	(<i>only for fire compartmentation uses</i>) - Resistance to fire E
22c	- Resistance to fire I
22f	- Smoke leakage S (<i>only for applications where limitation of smoke spread is required</i>)
23a	- Self closing C (<i>only for self closing fire doors</i>)
23b	- Ability to release (<i>only for locked doors in escape routes</i>)
33a	- Water tightness
34f	- Rate of release of dangerous substances (<i>only for indoor impact</i>)
42a	- Operating forces (safety in use) (<i>only for automatic devices</i>)
43c	- Impact resistance (<i>only for glazed doors with injury risks</i>)
43g	- Resistance to wind load
47c	- Height
51b	(<i>only for uses where acoustic performance is required</i>) - Direct airborne sound insulation index
61a	(<i>only for uses where thermal insulation performance is required</i>) - Thermal resistance
61b	- Air permeability
D4	- Durability of (33a), (61a) and (61b) against: * UV action (<i>only for plastic products and joints</i>)
D6	* weathering
D8	* ageing/degradation
D8	- Durability of (23a), (23b) and (42a) against: * ageing/degradation

ANNEX 3

Product family : Doors, windows, shutters, gates and related building hardware (1/3)

1. Levels and classes for product performances

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

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

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

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

2. Systems of attestation of conformity

- 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
Fire resistant windows, doors and related incorporated hardware	Fire compartmentation	Any	1
System 1: See CPD Annex III.2.(i), without audit-testing of samples			

13/02/95

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 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 :

- 22b **Resistance to fire E**
- 22c **Resistance to fire I**
- 22f **Smoke leakage S**
- 23a **Self-closing C**
- 23b **Ability to release** (*only for the related hardware*)

ANNEX 3

Product family : **Doors, windows, shutters, gates and related building hardware (2/3)**

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		Attestation of conformity system
Power operated doors and gates	Any		1
System 1: See CPD Annex III.2.(i), without audit-testing of samples			

08/02/95

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 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 :

- 23a Self closing C

ANNEX 3

Product family : Doors, windows, shutters, gates and related building hardware (3/3)

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		Attestation of conformity system
Any other types of doors and windows	Any other		4
System 4: See CPD Annex III. 2;(ii), Third possibility			

08/02/95

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.

MANDATE M/126

**Mandate M/126: Amendment (Annex III) to 4 mandates
(Thermal insulating products, Doors, windows and
related products, Membranes, Precast concrete
products)**

Mandate M/126: Amendment (Annex III) to 4 mandates (Thermal insulating products, Doors, windows and related products, Membranes, Precast concrete products)

MANDATE M/126

AMENDMENT TO :

**MANDATES TO CEN/CENELEC
CONCERNING THE EXECUTION OF STANDARDISATION WORK
FOR HARMONISED STANDARDS ON**

**THERMAL INSULATION PRODUCTS;
DOORS, WINDOWS, SHUTTERS, GATES AND RELATED BUILDING HARDWARE;
MEMBRANES;
PRECAST NORMAL/ LIGHTWEIGHT/ AUTOCLAVED AERATED CONCRETE PRODUCTS.**

This amendment modifies the original mandates in the following manner :

The text of Annexes III of the mandates on [thermal insulation products](#) shall be replaced by the text of Annex I of this amendment.

The text of Annexes III of the mandates on [doors, windows, shutters, gates and related building hardware](#) shall be replaced by the text of Annex II of this amendment.

The text of Annexes III of the mandates on [membranes](#) shall be replaced by the text of Annex III of this amendment.

The text of Annex IV of this amendment is added to the relevant Annex III of the mandates on [precast normal/ lightweight/ autoclaved aerated concrete products](#). The Annexes III are not otherwise modified by this amendment.

ANNEX II

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.

ATTESTATION OF CONFORMITY

[Top](#)

Product family :

Doors, windows, shutters, blinds, gates and related building hardware (1/1)

1. Levels and classes for product performances

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

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 Resistance to fire is a risk for which the need for a classification system 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)	Attestation of conformity system(s)
Doors and gates (with or without related hardware)		-	1
		-	-
		-	-
		-	-
		-	-
		-	-
		-	-
	fire / smoke compartmentation and on escape routes	-	-
	-----	-	-
	other declared specific uses and/or uses subject to other specific requirements, in particular noise, energy, tightness and safety-in-use	-	3
	-----	-	-
	for internal communication only	-	-
		-	-
		-	-
		-	-
		-	-
		-	4
Building hardware related to doors and gates	fire / smoke compartmentation and on escape routes	-	1
Windows (with or without related hardware)	fire / smoke compartmentation and on escape routes	-	1
		-	-
		-	-
		-	-
		-	-
		-	-
		-	-
		-	-
		-	-
	-----	-	-
	any other	-	-
		-	-
		-	-
		-	3
Shutters and blinds (with or without related hardware)	external use	-	4
System 1: See CPD Annex III.2.(i), without audit-testing of samples			
System 3 : See CPD Annex III. 2.(ii), Second possibility			
System 4 : See CPD Annex III. 2.(ii), Third possibility			

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

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

Resistance to fire

Smoke leakage

Self closing

Ability to release

Watertightness

Release of dangerous substances

Resistance to wind load

Direct airborne sound insulation

Thermal resistance

Air permeability

3.3 For products falling under system 1, for the initial inspection of the factory and of the factory production control [see Annex III.1.f) of the CPD], and for 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 :

Resistance to fire

Smoke leakage

Self closing

Ability to release

3.4 For 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 :

Watertightness

Release of dangerous substances

Resistance to wind load

Direct airborne sound insulation

Thermal resistance

Air permeability

MANDATE M/130

Amendment (Annex IV) to 7 mandates (Thermal insulating products, Doors, windows and related products, Membranes, Precast concrete products, Chimneys, flues and related products, Gypsum products, Fixed fire fighting systems)

Mandate M/130: Amendment (Annex IV) to 7 mandates (Thermal insulating products, Doors, windows and related products, Membranes, Precast concrete products, Chimneys, flues and related products, Gypsum products, Fixed fire fighting systems)

MANDATE M/130
AMENDMENT TO :

MANDATE TO CEN/CENELEC
CONCERNING THE EXECUTION OF STANDARDISATION WORK
FOR HARMONIZED STANDARDS ON

THERMAL INSULATION PRODUCTS;
DOORS, WINDOWS, SHUTTERS, GATES AND RELATED BUILDING HARDWARE;
MEMBRANES;
PRECAST NORMAL/ LIGHTWEIGHT/ AUTOCLAVED AERATED CONCRETE PRODUCTS;
CHIMNEYS, FLUES AND SPECIFIC PRODUCTS;
GYPSUM PRODUCTS;
FIRE ALARM/ DETECTION, FIXED FIREFIGHTING, FIRE AND SMOKE CONTROL AND
EXPLOSION SUPPRESSION PRODUCTS.

This amendment modifies the original mandates in the following manner :

The text of Annex I of this amendment is appended to each of the above mandates. The mandates are not otherwise modified by this amendment.

ANNEX I

" ANNEX 4 DANGEROUS SUBSTANCES

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/101 by CEN/TC 33

**DOORS, WINDOWS, SHUTTERS, GATES
AND RELATED BUILDING HARDWARE**

MANDATE ON
DOORS, WINDOWS, SHUTTERS,
GATES AND RELATED BUILDING HARDWARE

ANSWER PREPARED BY CEN/TC : 33

0. GENERAL COMMENTS OF THE CEN/TC RELATED TO THE ANSWER TO THE MANDATE

1. Request for clarification on the scope of the mandate concerning the product and allocation of work :
2. Request for clarification on the intended uses :
3. Information on products under the scope of the mandate which are the subject of other CEN/TCs -
Information on the organisation of the work between the TCs.
4. Information on issues concerning the scope and intended uses included in the mandate, for which no work has yet been started in the TC, or for which the TC cannot provide a standard.
5. Specific requests for additions to the mandate of products, materials, intended uses, essential characteristics, etc. :

-The CEN/TC 33 requests that the mandate includes the shutters and blinds considered individually and that a decision should be taken by the Standing Committee concerning the type of attestation of conformity.

-In the last version of the mandate M/101, the level of attestation of conformity system 4 (initial type-testing by the manufacturer) was changed to system 3 (initial type-testing of the product by an approved laboratory). All types of windows and doors are affected by this change.

We proposed to the Commission that system 4 is the correct attestation of conformity for external blinds and shutters.

- Building hardware :

The products covered by the mandate shall have to have an attestation of conformity. The decision corresponding is missing.

- Industrial, commercial, garage doors and gates

Addition of ess. characteristics :

- for vertically operated doors and windows : anti-drop-devices, e.g. safety catches (see ID4 of CPD Nr. 3.3.1.3 Hazard : Falling due to changes in level or sudden drops)

- for all doors : not dangerous geometry of glazing/glass components : visibility (see ID4 of CPD Nr. 3.3.2.3 Hazard : Cutting at sharp edges ; push and running against not visible parts)

- for all doors : mechanical resistance and stability (see ID4 of CPD Nr. 3.3.2.3 Hazards : Break down of doors or components injuring people)

Reasons for the request :

In several European countries exist legal regulations which include requirements for these subjects. These regulations will be barriers to trade unless harmonized European Standards are available.

See addendum 1, attached.

6. Liaison with other TCs for certain horizontal tests - Information on the organisation of the work between the TCs.

Liaison with CEN/TC 89 - 126 - 127

7. Other issues which the TC considers necessary for the comprehension of the answer to the mandate :

A - DOORS (*Doors with or without incorporated shutters and blinds*)

A.1 All doors

A.1.1 Harmonised product standard :

Availability :

WI 00033233 (under preparation by TC 33)

1999-12

(i) Title : *Internal and External doors - Specifications - Classification by families according to the intended uses.*

(ii) Scope : This standard is a performance standard, it applies to simple side hung doors, sliding doors with or without fan lights, side parts, double leaf doors, hand or operated doors with or without incorporated shutters and blinds, placed on the market with or without their frames, regardless of the constituting materials. The doors including related hardware are ready to install in vertical wall apertures. They may be wholly or partially glazed or unglazed. The intended uses of such doors are mainly for domestic and commercial locations and in particular : internal landing doors, fire doors, smoke control doors, external doors.

This standard does not include : - trap doors and roofs doors.

(iii) Int. uses : External and internal doors, used for fire compartmentation, landing and communication, in domestic and commercial locations.

(iv) The ess. characteristics according to the mandate which will be dealt with in the above standard will be :

For all doors :

- 1 - Rate of release of dangerous substances (only for indoor impact)
- 2 - Impact resistance (only for glazed doors with injury risks)
- 3 - Height
- 4 - Direct airborne sound insulation index (only for uses where acoustic performance is required).

Additionally for doors used for fire compartmentation :

- 5 - Resistance to fire E (integrity) and I (insulation).
- 6 - Smoke leakage S (only for applications where limitation of smoke spread is required)
- 7 - Self closing C (only for self closing fire doors)
- 8 - Ability to release (only for locked doors in escape routes).

Additionally for external doors :

- 9 - Water tightness
- 10 - Resistance to wind load
- 11 - Thermal resistance (only for uses where thermal performance is required)
- 12 - Air permeability (only for uses where thermal performance is required)

Additionally for internal landing communication doors and special uses :

- 13 - Operating forces (safety in use - only for automatic devices)

(v) Durability aspects :

- 14 - Durability of self closing C and ability to release against ageing/degradation
- 15 - Durability of water tightness against UV action (only for plastics), weathering and ageing/degradation
- 16 - Durability of thermal resistance against UV action (only for plastics), weathering and ageing/degradation
- 17 - Durability of air permeability against UV action (only for plastics), weathering and ageing/degradation
- 18 - Durability of operating forces against ageing/degradation

(vi) Other aspects

The harmonised product standard will also contain :

- the classification system for the characteristic :

- Resistance to Fire

- as required by the Annex 3 of the mandate (or a reference to the EN containing this classification),
- references to other Directives and compliance conditions applying to the product : not relevant.
- a reference to the Commission's Decision on attestation of conformity.
- clauses on evaluation of conformity (including factory production control and supporting standards).
- 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.

A.1.2 Supporting standards

The following work items, prENs or ENs are proposed as test or calculation methods for the determination of the ess. characteristics required by the mandate and indicated in clause A.1.1 (iv) above :

NOTE 1 : These supporting standards are the standards which are necessary to support the harmonised product standard.

In some cases reference may need to be made to other product standards where specifications and test methods are found.

NOTE 2 : Where the supporting standards also include other issues than those of interest, then the relevant clauses must be indicated.

1. Rate of release of dangerous substances (only for indoor impact)

No information concerning the substances to be taken into account is included in the mandate at present on this subject.

The issue will be addressed by the TC in detail later, after the finalization of the Annex 4 of the Mandate and relevant requirements of the Commission.

2. Impact resistance (glazed doors with injury risks)

prEN 12600 (under preparation by TC 129) 1999-06
Glass in building - Pendulum test - Impact and performance requirements - Paragraphs xy, yz, etc.

prEN 949 (under preparation by TC 129) 1998-12
Windows and curtain walling, doors, blinds and shutters - Determination of the resistance to soft and heavy body impact for doors

3. Height

prEN 951-1 (under preparation by TC 33) 1998-02
Height, width, thickness and squareness - Measurement method - Part 1 : Door leaves
(EN 25 : 1975 Rev), Paragraphs xy, yz, etc.

4. Direct airborne sound insulation index (only for uses where acoustic performance is required)

EN 20140-3 Available
Acoustics - Measurement of sound insulation in buildings and of building elements - Part 3 :
Laboratory measurements of airborne sound insulation of building elements (ISO
140-3 : 1995).

prEN 20717-1 (under preparation by TC 126) 1998-06
Acoustics - Rating of sound insulation of buildings and building elements - Part 1 : Airborne
sound insulation in buildings and of interior building elements (ISO/DIS 717-1 : 1993).

WI 00033233 1999-12
Extrapolation rules (calcul method concerning insulation)

5. Resistance to fire E (integrity) and I (insulation)

prEN 1634-1 (under preparation by TC 127) 1998-12
Fire testing of door and shutter assemblies - Part 1 : Method of test for fire resistance of fire doors and
shutters.

WI 00033233 1999-12
Extrapolation rules (calcul method concerning resistance to fire)

6. Smoke leakage S (only for applications where limitation of smoke spread is required)

prEN 1634-3 (under preparation by TC 127) 1998-12
Fire resistance - Doors and shutter assemblies - Part 3 : Smoke control doors test

7. Self closing C (only for self closing fire doors)

EN 1154 Available
Building hardware - Controlled door closing devices - Specifications and test methods - paragraphs :
6 - 7.1 - 7.2 - 7.3 - 7.4.

EN 1155 Available
Building hardware - Electrically powered hold-open devices - Specifications and test methods -
paragraphs : 6 - 7.1 - 7.2 - 7.3.

EN 1158 Available
Building hardware - Doors coordinator devices - Specifications and test methods - paragraphs :
6 - 7.1 - 7.2 - 7.3.

prEN 1906 (under preparation by TC 33) 1998-12
Building hardware - Lever handles and knobs - Requirements and test methods.

prEN 1191 (under preparation by TC 33) 1998-12
Windows and doors - Resistance to repeated opening and closing - Test method

8. Ability to release (only for locked doors in escape routes)

prEN 1125 (under preparation by TC 33) 1997-09
Building hardware - Exit devices - Panic devices operated by a horizontal bar - Specifications and test methods - paragraphs : 5 - 6.1 - 6.2 - 6.3.

prEN 179 (under preparation by TC 33) 1997-09
Building hardware - Exit devices - Emergency devices operated by a lever handle or push pad - Specifications and test methods - paragraphs : 5 - 6.1 - 6.2 - 6.3.

WI 00033111 1999-12
Building hardware - Exit devices - Electric / electronic electromechanical panic devices - paragraphs : 5 - 6.1 - 6.2.

prEN12650-2 (under preparation by TC 33) 1998-12
Building hardware - Powered pedestrian doors - Part 2 : Safety at powered pedestrian doors.

9. Water tightness

prEN 1027 (under preparation by TC 33) 1999-06
Windows and doors - Watertightness - Test method

10. Resistance to wind load

prEN 12 211 1999-06
Resistance to wind load - Test method - Part 1 : For windows and doors

11. Thermal resistance

prEN 30077 (under preparation by TC 89) 1998-06
Windows doors and shutters - Thermal transmittance - Calculation method (ISO/DIS 10077 : 1993).

WI 00089023 1999-06
Windows and doors - Thermal transmittance - Calibrated and guarded hot box method

12. Air permeability

prEN 1026 (under preparation by TC 33) 1999-06
Windows and doors - Air permeability - Test method

13. Operating forces (safety in use)(only for automatic devices)

WI 00033XYZ(new work item to be included in the work programme of TC 33) 2000-12
Doors - Operating forces for safety in use - Test method

14. Durability of self closing C and ability to release against ageing / degradation

prEN 1670 (under preparation by TC 33) 1998-12
Building hardware - Corrosion resistance of hardware for doors, windows, shutters and curtain walling - Requirements and test methods.

15. Durability of water tightness against ageing / degradation, weathering and UV action

prEN 1027 (under preparation by TC 33) 1999-06
Windows and doors - Watertightness - Test method

prEN 1191 (under preparation by TC 33) 1998-12
Windows and doors - Resistance to repeated opening and closing - Test method

prEN 513 (under preparation by TC 33) 1998-12
Unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors

For durability against weathering and UV action, see comments in A.1.3.6 below.

16. Durability of the thermal resistance of doors against UV action, weathering, ageing / degradation

For durability against weathering and UV action, and ageing/degradation see comments in A.1.3.6 below.

17. Durability of air permeability against UV action, weathering, ageing / degradation

prEN 1026 (under preparation by TC 33) 1999-06
Windows and doors - Air permeability - Test method

prEN 1191 (under preparation by TC 33) 1998-12
Windows and doors - Resistance to repeated opening and closing - Test method

For durability against weathering and UV action, see comments in A.1.3.6 below.

18. Durability of operating forces against ageing / degradation
(to be developed)

A.1.3 Additional information, comments and remarks

(concerning only the specific product under A.1 in this case)

1. Deviations from a performance approach in the product standard mentioned in the A.1 above and/or in supporting standards.

NOTE : The TCs shall give here information on aspects required by the mandate where a performance approach cannot be followed and provide for each a detailed justification.

2. Requests for clarification on the scope of the mandate concerning the product under A.1.

NOTE : If necessary, the TCs shall request here clarification on the products and materials included in the scope of the mandate.

3. Requests for clarification on the intended uses concerning the product under A.1 :

NOTE : If necessary, the TCs shall request here clarification on the products and materials included in the scope of the mandate.

4. Requests for clarification on the ess. characteristics for the intended uses included in the mandate concerning the product under A.1 :

NOTE : If necessary, the TCs shall request here clarification on the ess. characteristics of the products and the intended uses included in the mandate.

5. Information on ess. characteristics required by the mandate concerning the product under A.1, for which no work has yet been started in the TC, or for which the TC cannot provide a standard :

NOTE : The TCs shall give here relevant information on the feasibility of the standard with a timetable. If a standard cannot be elaborated the TC shall provide detailed justification.

6. Explanation of the state of the art concerning durability issues :
Durability of water tightness, air permeability and thermal resistance against UV action and weathering is not tested on the doors, but results from the compliance of the constituting materials to the state of the art or where available to ENs specifying the material.

7. Information on other Directives under which the product concerning the product under A.1 falls and compliance conditions.

NOTE : The TCs will here provide information on problems with these other Directives, if any.

8. Specific requests for additions to the mandate of materials, intended uses and ess. characteristics, etc. concerning the product under A.1.

NOTE : The TCs will provide the necessary information with explanations and justification.

9. Other issues which the TC considers necessary for the comprehension of the answer to the mandate, concerning the product under A.1.

B - WINDOWS (*Windows with or without incorporated shutters and blinds*)

B.1 All windows

B.1.1 Harmonised product standard :

Availability :

WI 00033231 (under preparation by TC 33)

1999-12

(i) Title : *Internal and External windows - Specifications - Classification by families according to the intended uses.*

(ii) Scope : This standard is a performance standard material independent, it applies to windows ready to install in apertures, provided complete including related hardware with cut to size panes, with or without incorporated shutters and blinds. They may be fixed, openable, or partly fixed and may be used as part of fire compartmentation.

(iii) Int. uses : External and internal windows, used for fire compartmentation, landing and communication, in domestic and commercial locations.

(iv) The ess. characteristics according to the mandate which will be dealt with in the above standard will be :

For all windows :

- 1 - Rate of release of dangerous substances (only for indoor impact)
- 2 - Thermal resistance (only for uses where thermal performance is required)

Additionally for windows used for fire compartmentation :

- 3 - Resistance to fire E (integrity) and I (insulation).
- 4 - Smoke leakage S (only for applications where limitation of smoke spread is required)

Additionally for windows external windows including French windows :

- 5 - Water tightness
- 6 - Resistance to wind load
- 7 - Direct airborne sound insulation index (only for uses where acoustic performance is required).
- 8 - Air permeability (only for uses where thermal performance is required)

(v) Durability aspects :

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

(vi) Other aspects

Similar to A.1.1. (vi) before

B.1.2 Supporting standards

The following work items, prENs or ENs are proposed as test or calculation methods for the determination of the ess. characteristics required by the mandate and indicated in clause B.1.1 (iv) above :

1. Rate of release of dangerous substances (only for indoor impact)

No information concerning the substances to be taken into account is included in the mandate at present on this subject.

The issue will be addressed by the TC in detail later, after the finalization of the Annex 4 of the Mandate and relevant requirements of the Commission.

2. Thermal resistance

prEN 30077 (under preparation by TC 89) 1998-06
Windows, doors and shutters - Thermal transmittance - Calculation method (ISO/DIS 10077 : 1993).

WI 00089023 1999-06
Windows and doors - Thermal transmittance - Calibrated and guarded hot box method

3. Resistance to fire E (integrity) and I (insulation)

prEN 1364-1 (under preparation by TC 127) 1998-12
Fire resistance tests on non-loadbearing elements in building – Part 1 partitions.

4. Smoke leakage S (only for applications where limitation of smoke spread is required)
(to be developed by CEN/TC 127)

5. Water tightness

prEN 1027 (under preparation by TC 33) 1999-06
Windows and doors - Watertightness - Test method

6. Resistance to wind load

prEN 12 211 1999-06
Resistance to wind load - Test method - Part 1 : For windows and doors

7. Direct airborne sound insulation index (only for uses where acoustic performance is required)

EN 20140-3 Available
Acoustics - Measurement of sound insulation in buildings and of building elements - Part 3 :
Laboratory measurements of airborne sound insulation of building elements (ISO
140-3 : 1995).

prEN 20717-1 (under preparation by TC 126) 1998-06
Acoustics - Rating of sound insulation of buildings and building elements - Part 1 : Airborne
sound insulation in buildings and of interior building elements (ISO/DIS 717-1 : 1993).

8. Air permeability

prEN 1026 (under preparation by TC 33) 1999-06
Windows and doors - Air permeability - Test method

9. Durability of water tightness against ageing / degradation, weathering and UV action

prEN 1027 (under preparation by TC 33) 1999-06
Windows and doors - Watertightness - Test method

prEN 1191 (under preparation by TC 33) 1998-12
Windows and doors - Resistance to repeated opening and closing - Test method

prEN 513 (under preparation by TC 33) 1998-12
Unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors

For durability against weathering and UV action, see comments in B.1.3.6 below.

10. Durability of the thermal resistance of doors against UV action, weathering, ageing / degradation

For durability against weathering and UV action, and ageing/degradation see comments in B.1.3.6 below.

11. Durability of air permeability against UV action, weathering, ageing / degradation

prEN 1026 (under preparation by TC 33) 1999-06
Windows and doors - Air permeability - Test method

prEN 1191 (under preparation by TC 33) 1998-12
Windows and doors - Resistance to repeated opening and closing - Test method

For durability against weathering and UV action, see comments in B.1.3.6 below.

B.1.3 Additional information, comments and remarks

(concerning only the specific product under B.1 in this case)

1. Deviations from a performance approach in the product standard mentioned in the B.1 above and/or in supporting standards.

NOTE : The TCs shall give here information on aspects required by the mandate where a performance approach cannot be followed and provide for each a detailed justification.

2. Requests for clarification on the scope of the mandate concerning the product under B.1.

NOTE : If necessary, the TCs shall request here clarification on the products and materials included in the scope of the mandate.

3. Requests for clarification on the intended uses concerning the product under B.1 :

NOTE : If necessary, the TCs shall request here clarification on the products and materials included in the scope of the mandate.

4. Requests for clarification on the ess. characteristics for the intended uses included in the mandate concerning the product under B.1 :

NOTE : If necessary, the TCs shall request here clarification on the ess. characteristics of the products and the intended uses included in the mandate.

5. Information on ess. characteristics required by the mandate concerning the product under B.1, for which no work has yet been started in the TC, or for which the TC cannot provide a standard :

NOTE : The TCs shall give here relevant information on the feasibility of the standard with a timetable. If a standard cannot be elaborated the TC shall provide detailed justification.

6. Explanation of the state of the art concerning durability issues :
Durability of water tightness, air permeability and thermal resistance against UV action and weathering is not tested on the windows, but results from the compliance of the constituting materials to the state of the art or where available to ENs specifying the material.

7. Information on other Directives under which the product concerning the product under B.1 falls and compliance conditions.

NOTE : The TCs will here provide information on problems with these other Directives, if any.

8. Specific requests for additions to the mandate of materials, intended uses and ess. characteristics, etc. concerning the product under B.1.

NOTE : The TCs will provide the necessary information with explanations and justification.

9. Other issues which the TC considers necessary for the comprehension of the answer to the mandate, concerning the product under B.1.

C - BLINDS AND SHUTTERS (*Placed on the market as such*)

C.1 External blinds for external openings :

C.1.1 Harmonised product standard :

Availability :

WI 00033143 (under preparation by TC 33)

1999-12

(i) Title : *External blinds for external openings fitted with windows or casement doors - Requirements and classification*

(ii) Scope : This standard is a performance standard, and applies to external blinds, regardless of the material they are made of, for façades or openings with doors or windows.

(iii) Int. uses : For external doors and/or windows.

(iv) The ess. characteristics according to the mandate which will be dealt with in the above standard will be :

1 - Resistance to wind load

(vi) Other aspects

The harmonised product standard will also contain :

- references to other Directives and compliance conditions applying to the product : not relevant.
- a reference to the Commission's Decision on attestation of conformity : to be decided by the Commission.
- clauses on evaluation of conformity (including factory production control and supporting standards).
- 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.

C.1.2 Supporting standards

The following work items, prENs or ENs are proposed as test or calculation methods for the determination of the ess. characteristics required by the mandate and indicated in clause C.1.1 (iv) above :

NOTE 1 : These supporting standards are the standards which are necessary to support the harmonised product standard.

In some cases reference may need to be made to other product standards where specifications and test methods are found.

NOTE 2 : Where the supporting standards also include other issues than those of interest, then the relevant clauses must be indicated.

1. Resistance to wind load

prEN 1932 (under preparation by TC 33)

1998-12

Blinds and shutters - Resistance to wind load - Test method.

C.1.3 Additional information, comments and remarks

(concerning only the specific product under C.1 in this case)

1. Deviations from a performance approach in the product standard mentioned in the C.1 above and/or in supporting standards.

NOTE : The TCs shall give here information on aspects required by the mandate where a performance approach cannot be followed and provide for each a detailed justification.

2. Requests for clarification on the scope of the mandate concerning the product under C.1.

NOTE : If necessary, the TCs shall request here clarification on the products and materials included in the scope of the mandate.

3. Requests for clarification on the intended uses concerning the product under C.1 :

NOTE : If necessary, the TCs shall request here clarification on the products and materials included in the scope of the mandate.

4. Requests for clarification on the ess. characteristics for the intended uses included in the mandate concerning the product under C.1 :

NOTE : If necessary, the TCs shall request here clarification on the ess. characteristics of the products and the intended uses included in the mandate.

5. Information on ess. characteristics required by the mandate concerning the product under C.1, for which no work has yet been started in the TC, or for which the TC cannot provide a standard :

NOTE : The TCs shall give here relevant information on the feasibility of the standard with a timetable. If a standard cannot be elaborated the TC shall provide detailed justification.

6. Explanation of the state of the art concerning durability issues : not relevant

7. Information on other Directives under which the product concerning the product under C.1 falls and compliance conditions.

NOTE : The TCs will here provide information on problems with these other Directives, if any.

8. Specific requests for additions to the mandate of materials, intended uses and ess. characteristics, etc. concerning the product under C.1.

The CEN/TC 33 requests that the mandate includes the shutters and blinds considered by themselves and that a decision should be taken by the Standing Committee concerning the type of attestation of conformity.

In the last version of the mandate M/101, the level of attestation of conformity system 4 (initial type-testing by the manufacturer) was changed to system 3 (initial type-testing of the product by an approved laboratory). All types of windows and doors are affected by this change.

We proposed to the Commission that system 4 is the correct attestation of conformity for external blinds and shutters.

9. Other issues which the TC considers necessary for the comprehension of the answer to the mandate, concerning the product under C.1.

C.2 External shutters for external openings :

C.1.1 Harmonised product standard :

Availability :

WI 00033234 (under preparation by TC 33)

1999-12

- (i) **Title :** *External shutters for external openings fitted with windows or casement doors - Requirements and classification.*
- (ii) **Scope :** This standard is a performance standard, and applies to external shutters, regardless of the material they are made of, for façades or openings with doors or windows.
- (iii) **Int. uses :** For external doors and/or windows.

Rest of text similar to clauses C.1.1 (iv) until C.1.3

D - BUILDING HARDWARE

D.1 Electrically controlled panic exit systems

D.1.1 Harmonised product standard :

Availability:

WI 00033111 (under preparation by TC 33)

1999-12

(i) Title: *Building hardware - Electrically controlled panic exit systems - Specifications and test methods*

(ii) Scope: This European standard specifies requirements for the manufacture, performance and testing of electrically controlled panic exit systems (PES) operated by either a horizontal pushbar or a horizontal touch-bar specifically designed for use in a panic situation. The suitability of a system for use on fire/smoke door assemblies is determined by fire performance tests conducted in addition to the performance tests required by this standard. Annex B indicates additional requirements for these products.

(iii) Intended uses: for locked doors on escape routes, where panic situations are foreseen. These systems are intended for use on either fire or non-fire rated door assemblies according to their classification within this product standard.

(iv) The essential characteristics according to the mandate which will be dealt with in the above standard will be:

I - Ability to release (only for locked doors in escape routes).

(v) Durability aspects

2 - Durability of ability to release against ageing/degradation

(vi) Other aspects:

The harmonised product standard will also contain:

- references to other Directives and compliance conditions applying to the product. (see clause D.1.3 below).
- a reference to the Commission's Decision on attestation of conformity.
- clauses on evaluation of conformity (including factory production control and supporting standards).
- 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.

D.1.2 Supporting standards

The following work items, prENs or ENs are proposed as test methods for the determination of the essential characteristics required by the mandate and indicated in clause D.1.1 (iv) above:

1. Ability to release (only for locked doors in escape routes)

EN 1125: 1997 Building hardware - Panic exit devices operated by a horizontal bar - Specifications and test methods.

Clauses 4.1.1 to 4.2.5 inclusive.

Clauses 4.2.1 to 4.2.8 inclusive.

Annex B.

Clause 5.

Clauses 6.1 to 6.3 inclusive.

2. Durability of ability to release against ageing / degradation

EN 1125: 1997 Building hardware - Panic exit devices operated by a horizontal bar - Specifications and test methods.

Clause 4.2.3.

Clause 6.3.4.

prEN 1670 (under preparation by TC 33) 1998-12
Building hardware - Corrosion resistance of hardware for doors, windows, shutters and curtain walling - Requirements and test methods.

Clause 5.6 - Grade 3.

3. Other supporting standards

EN 29002 Available
Quality system: model for quality assurance in productions and installation

EN 45000 Available
Testing laboratory quality requirements

D.1.3 Additional information, comments and remarks

1. It is noted that two other Directives are relevant to these products, being:-
Electromagnetic Compatibility Directive (89/336/EEC amended by 92/31/EEC),
Low Voltage Directive (73/23/EEC).
The product standard will contain the necessary references to these Directives.

D.2 Electrically controlled emergency exit systems

D.2.1 Harmonised product standard :

Availability:

WI 00033244 (under preparation by TC 33)

1999-12

(i) Title: *Building hardware - Electrically controlled emergency exit systems - Specifications and test methods*

(ii) Scope: This European standard specifies requirements for the manufacture, performance and testing of electrically controlled emergency exit systems (EES), specifically designed for use in an emergency situation.

These systems consist of the following elements :

A - Electrical locking element (EL) for securing an emergency exit door.

B - Requesting element (RE) for requesting the release of electrical locking elements in order to exit.

C - Electrical controlling element (EC) for supplying, connecting and controlling EL and RE.

This European standard does not cover any other element of a security exit.

The suitability of a system for use on fire/smoke door assemblies is determined by fire performance tests conducted in addition to the performance tests required by this standard. Annex B indicates additional requirements for these products.

Emergency exit systems covered by this European standard are for use on hinged or pivoted door leaves only, not exceeding 200 kg in mass, 2500 mm in height and 1300 mm in width.

(iii) Intended uses: for locked doors on escape routes, where people are familiar with the emergency exit and its hardware and therefore a panic situation is most unlikely to develop. These systems are intended for use on either fire or non-fire rated door assemblies according to their classification within this product standard.

(iv) The essential characteristics according to the mandate which will be dealt with in the above standard will be:

I - Ability to release (only for locked doors in escape routes).

(v) Durability aspects

2 - Durability of ability to release against ageing/degradation

(vi) Other aspects:

The harmonised product standard will also contain:

- references to other Directives and compliance conditions applying to the product. (see clause D.2.3 below).
- a reference to the Commission's Decision on attestation of conformity.
- clauses on evaluation of conformity (including factory production control and supporting standards).
- 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.

D.2.2 Supporting standards

The following work items, prENs or ENs are proposed as test methods for the determination of the essential characteristics required by the mandate and indicated in clause D. 2 . 1 (iv) above:

1. Ability to release (only for locked doors in escape routes)

EN 179: 1997 Building hardware - Emergency exit devices operated by lever handle or a push pad - Specifications and test methods.

Clauses 4.1.1 to 4.2.5 inclusive.

Clauses 4.2.1 to 4.2.8 inclusive.

Annex B.

Clause 5.

Clauses 6.1 to 6.3 inclusive.

2. Durability of ability to release against ageing / degradation

EN 179: 1997

Available

Building hardware - Emergency exit devices operated by lever handle or a push pad - Specifications and test methods.

Clause 4.2.3.

Clause 6.3.4.

prEN 1670 (under preparation by TC 33)

1998-12

Building hardware - Corrosion resistance of hardware for doors, windows, shutters and curtain walling - Requirements and test methods.

Clause 5.6 - Grade 3.

3. Other supporting standards

EN 29002

Available

Quality system: model for quality assurance in productions and installation

EN 45000

Available

Testing laboratory quality requirements

D.2.3 Additional information, comments and remarks

1. It is noted that two other Directives are relevant to these products, being:-
Electromagnetic Compatibility Directive (89/336/EEC amended by 92/31/EEC),
Low Voltage Directive (73/23/EEC).

The product standard will contain the necessary references to these Directives.

D.3 Panic exit devices

D.3.1 Harmonised product standard :

EN 1125: 1997

Available

- (i) **Title:** *Building hardware - Panic exit devices operated by a horizontal bar - Specifications and test methods*
- (ii) **Scope:** This European standard specifies requirements for the manufacture, performance and testing of panic devices operated by either a horizontal push-bar or a horizontal touch-bar specifically designed for use in a panic situation. The suitability of a panic device for use on fire/smoke door assemblies is determined by fire performance tests conducted in addition to the performance tests required by this standard. Annex B indicates additional requirements for these products.
- (iii) **Intended uses:** for locked doors on escape routes, where panic situations are foreseen. These panic devices are intended for use on either fire or non-fire rated door assemblies according to their classification within this product standard.
- (iv) **The essential characteristics according to the mandate which will be dealt with in the above standard will be:**

I - Ability to release (only for locked doors in escape routes).

This characteristic will be covered by the application of the following sections of the standard:-

Clauses 4.1.1 to 4.1.25 inclusive.

Clauses 4.2.1 to 4.2.8 inclusive.

Annex B.

Clause 5.

Clauses 6.1 to 6.3 inclusive.

(v) Durability aspects

2 - Durability of ability to release against ageing/degradation

This characteristic will be covered by the application of the following sections of the standard:-

Clause 4.2.3.

Clause 6.3.4.

(vi) Other aspects:

The harmonised product standard will also contain:

- a reference to the Commission's Decision on attestation of conformity.
- clauses on evaluation of conformity (including factory production control and supporting standards).
- 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.

D.3.2 Supporting standards

The following work items, prENs or ENs are proposed as test methods for the determination of the essential characteristics required by the mandate and indicated in clause D. 3 . 1 (iv) above:

1. prEN 1670 (under preparation by TC 33) 1998-12
Building hardware - Corrosion resistance of hardware for doors, windows, shutters and curtain
walling - Requirements and test methods.
Clause 5.6 - Grade 3.

2. Other supporting standards

EN 29002	Available
Quality system: model for quality assurance in productions and installation	

EN 45000	Available
Testing laboratory quality requirements	

D.4 Emergency exit devices

D.4.1 Harmonised product standard :

EN 179: 1997

Available

- (i) **Title:** *Building hardware - Emergency exit devices operated by lever handle or a push pad - Specifications and test methods*
- (ii) **Scope:** This European standard specifies requirements for the manufacture, performance and testing of emergency exit devices operated by lever handle or a push pad for use where a panic situation is unlikely to arise. The suitability of an emergency exit device for use on fire/smoke door assemblies is determined by fire performance tests conducted in addition to the performance tests required by this standard. Annex B indicates additional requirements for these products.
- (iii) **Intended uses:** for locked doors on escape routes, where people are familiar with the emergency exit and its hardware and therefore a panic situation is most unlikely to develop. These emergency exit devices are intended for use on either fire or non-fire rated door assemblies according to their classification within this product standard.
- (iv) **The essential characteristics according to the mandate which will be dealt with in the above standard will be:**

I - Ability to release (only for locked doors in escape routes).

This characteristic will be covered by the application of the following sections of the standard:-

Clauses 4.1.1 to 4.2.5 inclusive.
Clauses 4.2.1 to 4.2.8 inclusive.
Annex B.
Clause 5.
Clauses 6.1 to 6.3 inclusive.

(v) **Durability aspects**

2 - Durability of ability to release against ageing/degradation

This characteristic will be covered by the application of the following sections of the standard:-

Clause 4.2.3.
Clause 6.3.4.

(vi) **Other aspects:**

The harmonised product standard will also contain:

- a reference to the Commission's Decision on attestation of conformity.
- clauses on evaluation of conformity (including factory production control and supporting standards).
- 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.

D.4.2 Supporting standards

The following work items, prENs or ENs are proposed as test methods for the determination of the essential characteristics required by the mandate and indicated in clause D.4.1 (iv) above:

1. prEN 1670 (under preparation by TC 33) 1998-12
Building hardware - Corrosion resistance of hardware for doors, windows, shutters and curtain
walling - Requirements and test methods.
Clause 5.6 - Grade 3.

2. Other supporting standards

EN 29002	Available
Quality system: model for quality assurance in productions and installation	

EN 45000	Available
Testing laboratory quality requirements	

D.5 Controlled door closing devices

D.5.1 Harmonised product standard :

EN 1154

Available

(i) Title: *Building hardware - Controlled door closing devices - Requirements and test methods*

(ii) Scope: This European standard specifies requirements for controlled door closing devices for swing doors, such devices being mounted on or in the frame, on or in the door, or in the floor. The scope is limited to manually operated door closing devices where the energy for closing is generated by the user upon opening the door, such that when the door is released, it returns to a closed position, in a controlled manner.

The suitability of a controlled door closing device for use on fire/smoke door assemblies is determined by fire performance tests conducted in addition to the performance tests required by this standard. Annex A indicates additional requirements for these products.

(iii) Intended uses: to fulfil the self-closing requirements of fire and smoke compartmentation doors.

(iv) The essential characteristics according to the mandate which will be dealt with in the above standard will be:

I - Self closing (only for fire / smoke doors).

This characteristic will be covered by the application of the following sections of the standard:-

Clause 5.1

Clauses 5.2.1 and 5.2.3 to 5.2.16 inclusive.

Clause 5.2.18.

Clause 6.

Clauses 7.1 and 7.2 .

Clause 8.

Annexes A and B.

(v) Durability aspects

2 - Durability of self-closing against ageing/degradation.

This characteristic will be covered by the application of the following sections of the standard:-

Clauses 5.2.2 and 5.2.17

Clauses 7.3 and 7.4.

(vi) Other aspects:

The harmonised product standard will also contain:

- a reference to the Commission's Decision on attestation of conformity.
- clauses on evaluation of conformity (including factory production control and supporting standards).
- 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.

D.5.2 Supporting standards

The following work items, prENs or ENs are proposed as test methods for the determination of the essential characteristics required by the mandate and indicated in clause D. 5. 1. (iv) above:

1. prEN 1670 (under preparation by TC 33) 1998-12
Building hardware - Corrosion resistance of hardware for doors, windows, shutters and curtain
walling - Requirements and test methods.
Clause 5.6 - Grade 3.

2. Other supporting standards

EN 29002	Available
Quality system: model for quality assurance in productions and installation	

EN 45000	Available
Testing laboratory quality requirements	

D.6 Electrically powered hold-open devices

D.6.1 Harmonised product standard :

EN 1155

Available

(i) Title: *Building hardware - Electrically powered hold-open devices for swing doors - Requirements and test methods*

(ii) Scope: This European standard specifies requirements for separate hold-open devices and also hold-open mechanisms incorporated in a door closer. Electrically powered hold-open devices manufactured to this European Standard can hold a swing door at a fixed position or can allow the door to swing freely. In each case interruption of the electrical supply will cause the controlled door to close positively.

The suitability of an electrically powered hold-open device for use on fire/smoke door assemblies is determined by fire performance tests conducted in addition to the performance tests required by this standard.

(iii) Intended uses: to enable fire and smoke compartmentation doors to remain open at either a preset or chosen angle until electrically released by means of a fire/smoke detection system, thereby enabling such doors to achieve self-closing in the event of fire.

(iv) The essential characteristics according to the mandate which will be dealt with in the above standard will be:

I - Self closing (only for fire / smoke doors).

This characteristic will be covered by the application of the following sections of the standard:-

Clause 5.1

Clauses 5.2.1 to 5.2.3 inclusive and 5.2.5 to 5.2.13 inclusive

Clauses 6 and 7.1

Clauses 7.2.1 to 7.2.7 inclusive

Clauses 7.2.10 and 8.

Annex B.

(v) Durability aspects

2 - Durability of self-closing against ageing/degradation.

This characteristic will be covered by the application of the following sections of the standard:-

Clause 5.2.4

Clause 5.2.14

Clauses 7.2.8, 7.2.9 and 7.3

(vi) Other aspects:

The harmonised product standard will also contain:

- a reference to the Commission's Decision on attestation of conformity.
- clauses on evaluation of conformity (including factory production control and supporting standards).
- 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.

D.6.2 Supporting standards

The following work items, prENs or ENs are proposed as test methods for the determination of the essential characteristics required by the mandate and indicated in clause D. 6. 1. (iv) above:

1. prEN 1670 (under preparation by TC 33) 1998-12
Building hardware - Corrosion resistance of hardware for doors, windows, shutters and curtain walling - Requirements and test methods.
Clause 5.6 - Grade 3.
2. EN 1154 Available
Building hardware - Controlled door closing devices - Requirements and test methods
Clause 5.1
Clauses 5.2.1 to 5.2.18 inclusive.
Clauses 6, 7 and 8.
Annexes A and B.
3. Other supporting standards

EN 29002 Available
Quality system: model for quality assurance in productions and installation

EN 45000 Available
Testing laboratory quality requirements

D.6.3 Additional information, comments and remarks

Whilst devices to this European Standard are primarily intended to allow fire doors to achieve their self-closing function in response to a fire/smoke detection system, their ability to do so depends also upon their ability to release the door from its held position, in a reliable and durable way. The essential characteristic of *self-closing of the fire door* is thus complemented by an equally important characteristic of *ability to release of the holding mechanism*. This European Standard takes account of these characteristics by the inclusion of specific performance requirements to establish reliable and durable release performance, and thus achieve the essential characteristic of self-closing of the fire door as required by the mandate.

D.7 Door coordinator devices

D.7.1 Harmonised product standard :

EN 1158

Available

(i) Title: *Building hardware - Door coordinator devices - Requirements and test methods*

(ii) Scope: This European standard specifies requirements for door coordinator devices for double leaf swing doors fitted with door closers, and includes both separately mounted devices and mechanisms incorporated in door closers. Door coordinator devices are used where it is necessary to ensure the correct sequence of closing of double leaf swing doors, for example doors with rebated meeting stiles.

The suitability of a door coordinator device for use on fire/smoke door assemblies is determined by fire performance tests conducted in addition to the performance tests required by this standard.

(iii) Intended uses: to enable rebated double leaf fire and smoke compartmentation doors to close in the correct sequence, thereby enabling such doors to achieve self-closing in the event of fire.

(iv) The essential characteristics according to the mandate which will be dealt with in the above standard will be:

I - Self closing (only for fire / smoke doors).

This characteristic will be covered by the application of the following sections of the standard:-

Clause 5.1

Clauses 5.2.1 to 5.2.4 inclusive

Clauses 5.2.6 and 5.2.8

Clauses 6 and 7.1

Clauses 7.2.1 to 7.2.6 inclusive

Clause 8.

Annexes A and C.

(v) Durability aspects

2 - Durability of self-closing against ageing/degradation.

This characteristic will be covered by the application of the following sections of the standard:-

Clause 5.2.5

Clause 5.2.7

Clauses 7.2.7, 7.2.8 and 7.3

(v) Other aspects:

The harmonised product standard will also contain:

- a reference to the Commission's Decision on attestation of conformity.
- clauses on evaluation of conformity (including factory production control and supporting standards).
- 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.

D.7.2 Supporting standards

The following work items, prENs or ENs are proposed as test methods for the determination of the essential characteristics required by the mandate and indicated in clause D. 7. 1. (iv) above:

1. prEN 1670 (under preparation by TC 33) 1998-12
Building hardware - Corrosion resistance of hardware for doors, windows, shutters and curtain walling - Requirements and test methods.
Clause 5.6 - Grade 3.
2. EN 1154 Available
Building hardware - Controlled door closing devices - Requirements and test methods
Clause 5.1
Clauses 5.2.1 to 5.2.18 inclusive.
Clauses 6, 7 and 8.
Annexes A and B.
3. EN 1155 Available
Building hardware - Electrically powered hold-open devices - Requirements and test methods
Clauses 5.1 and 5.2
Clauses 6, 7 and 8
Annex B.
4. Other supporting standards

EN 29002 Available
Quality system: model for quality assurance in productions and installation

EN 45000 Available
Testing laboratory quality requirements

D.7.3 Additional information, comments and remarks

Whilst coordinator devices to this European Standard are primarily intended to allow fire doors to achieve their self-closing function in response to a fire/smoke detection system, their ability to do so depends also upon their reliability in ensuring sequential closing of the door leaves with an acceptable durability. This European Standard takes account of this requirement by the inclusion of specific performance requirements and tests to establish reliable and durable coordination performance, and thus achieve the essential characteristic of self-closing of the fire door as required by the mandate.

D.8 Single-axis hinges

D.8.1 Harmonised product standard :

Availability

prEN 1935

1998

(i) Title: *Building hardware - Single-axis hinges - Requirements and test methods*

(ii) Scope: This European standard specifies requirements for single-axis hinges for use on access windows and doors. It includes tests for static loads, shear strength and allowable wear during endurance cycling for the following:

- a) single-axis hinges mounted on the edge of the door leaf or window sash and opening in one direction only;
- b) single-axis hinges whose axis of rotation is within 30 mm of an edge of the movable element for door leaf masses of up to 160 kg;
- c) single-axis hinges whose axis of rotation is within 30 mm of the edge window sashes with a mass of up to 60 kg.

The suitability of single-axis hinges for use on fire/smoke door assemblies is determined by fire performance tests conducted in addition to the performance tests required by this standard.

(iii) Intended uses: i) for use on fire and smoke compartmentation doors fitted with door closing devices, to enable such doors to close reliably and thus achieve self-closing in the event of fire.
ii) for use on locked doors on escape routes, to enable the door leaves to move freely once released.

(iv) The essential characteristics according to the mandate which will be dealt with in the above standard will be:

I - Self closing (only for fire / smoke doors).

2 - Ability to release (only for locked doors on escape routes)

These characteristics will be covered by the application of the following sections of the standard:-

Clauses 5.1 to 5.3 inclusive
Clause 5.6
Clauses 6 and 8
Clauses 7.1 to 7.4 inclusive
Annexes B and G.

(v) Durability aspects

3 - Durability of self-closing and ability to release against ageing/degradation.

This characteristic will be covered by the application of the following sections of the standard:-

Clause 5.4
Clause 5.5
Clause 7.5

(vi) Other aspects:

The harmonised product standard will also contain:

- a reference to the Commission's Decision on attestation of conformity.
- clauses on evaluation of conformity (including factory production control and supporting standards).
- 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.

D.8.2 Supporting standards

The following work items, prENs or ENs are proposed as test methods for the determination of the essential characteristics required by the mandate and indicated in clause D.8. 1. (iv) above:

1. prEN 1670 (under preparation by TC 33) 1998-12
Building hardware - Corrosion resistance of hardware for doors, windows, shutters and curtain walling - Requirements and test methods.
Clause 5.6 - Grades 0 to 3.

2. Other supporting standards

EN 29002 Available
Quality system: model for quality assurance in productions and installation

D.8.3 Additional information, comments and remarks

Single-axis hinges according to this European Standard perform an essential function in supporting a door leaf, such that:-

- a) for fire doors -
 - i) the precise relationship between door leaf and frame is maintained, to achieve fire integrity;
 - ii) hinge friction is maintained at a low value, to enable self-closing fire doors to achieve their self-closing function.
- b) for escape doors - the precise relationship between door leaf and frame is maintained to ensure that the door leaf does not foul the frame or floor and impede the opening function, once the door is released.

These functions are required for an economically reasonable working life consistent with safety, and the standard will therefore include performance tests for durability, related to the particular category of duty of the hinge.

Informative Annex E will give additional information for hinge installation on doors fitted with door closing devices.

D.9 Locks and latches

D.9.1 Harmonised product standards :

Availability

prEN 12209-1

1998

(i) Title: *Building hardware - Locks and latches - Part 1 : Mechanically operated locks and latches - Requirements and test methods*

(ii) Scope: This European standard specifies requirements and test methods for strength, security, durability and function of mechanically operated locks, for use in doors, window doors and entrance doors in buildings.

The suitability of mechanically operated locks and latches for use on fire/smoke door assemblies is determined by fire performance tests conducted in addition to the performance tests required by this standard.

(iii) Intended uses: i) for use on fire and smoke compartmentation doors fitted with door closing devices, to enable such doors to close reliably and thus achieve self-closing in the event of fire.
ii) for use on locked fire doors (such as duct doors) to maintain the fire integrity of the door assembly.

(iv) The essential characteristics according to the mandate which will be dealt with in the above standard will be:

1 - Self closing (only for fire / smoke doors).

2 - Resistance to fire E (integrity) - (only for locked fire doors)

These characteristics will be covered by the application of the following sections of the standard:-

Clauses 4.1.1 to 4.1.9 inclusive

Clause 5.1

Clauses 7

Annexes A and C.

(v) Durability aspects

3 - Durability of self-closing and fire integrity against ageing/degradation.

This characteristic will be covered by the application of the following sections of the standard:-

Clauses 4.2, 4.6 and 4.8

Clauses 5.2, 5.4 and 5.8.

(vi) Other aspects:

The harmonised product standard will also contain:

- a reference to the Commission's Decision on attestation of conformity.
- clauses on evaluation of conformity (including factory production control and supporting standards).
- 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.

D.9.2 Supporting standards

The following work items, prENs or ENs are proposed as test methods for the determination of the essential characteristics required by the mandate and indicated in clause D. 9. 1. (iv) above:

1. prEN 1670 (under preparation by TC 33) 1998-12
Building hardware - Corrosion resistance of hardware for doors, windows, shutters and curtain walling - Requirements and test methods.
Clause 5.6 - Grades 0 to 3.
2. Other supporting standards

prEN 12209 (under preparation by TC 33) 1998-12
Building hardware - Locks and latches - Part 2 : Striking plates for mechanically operated locks and latches - Requirements and test methods
Clauses 4.2, 4.6, 4.8, 5, 7 and Annex A

EN 29002 Available
Quality system: model for quality assurance in productions and installation

D.9.3 Additional information, comments and remarks

Locks and latches according to this European Standard perform an essential safety function when used on certain doors:

- a) for self-closing fire doors - It is important that the latchbolt's resistance to closing, when meeting its strike plate, is of a low enough value that it can be overcome by the door closing device so that the door can close fully into its frame and thus achieve fire integrity;
- b) for locked fire doors - It is important that the latchbolt or deadbolt can maintain the door in its closed position and thus maintain fire integrity.

These functions are required for an economically reasonable working life consistent with safety, and the standard will therefore include performance tests for durability, related to the particular classification of the lock or latch.

E - INDUSTRIAL, COMMERCIAL, GARAGE DOORS AND GATES

E.1 Industrial, commercial, garage doors and gates

E.1.1 Harmonised product standard :

Availability :

WI 00033256 (under preparation by TC 33)

2000-06

(i) Title : *Industrial, commercial, garage doors and gates - Product standard*

(ii) Scope : This European Standard specifies the performance requirements for any type of doors, gates and barriers, intended for installation in areas in the reach of people, for which the main intended uses are giving safe access

- for goods and vehicles accompanied by persons in industrial and commercial premises and residential garages
- or
- exclusively to pedestrians where the opening width exceeds 2,5 m and the area of opening exceeds 6,25 m².

(iii) Int. uses : External and internal doors for goods and vehicles or big dimension,
also for fire compartment,
also for gates and barriers.

(iv) The ess. characteristics according to the mandate which will be dealt with in the above standard will be :

For all industrial, commercial, garage doors and gates :

- 1 - Water tightness ¹⁾
- 2 - Resistance to wind load
- 3 - Rate of release of dangerous substances (only for indoor impact) ²⁾
- 4 - Thermal resistance (only for uses where thermal performance is required)
- 5 - Air permeability (only for uses where thermal performance is required)

Additionally for industrial, commercial, garage doors and gates used for fire compartmentation :

- 6 - Resistance to fire E (integrity) and I (insulation).
- 7 - Smoke leakage S (only for applications where limitation of smoke spread is required)
- 8 - Self closing C (only for self closing fire doors)
- 9 - Ability to release (only for locked doors in escape routes).³⁾

Additionally for power operated doors :

- 10 - Operating forces (safety in use, only for automatic devices)

- 1) Water tightness is a performance, which is to be considered only when required
- 2) Rate of release of dangerous substances is a property which is linked to air permeability, when the substances are gaseous. Air permeability is dealt with in the product standard. Furthermore the standard contains no requirement or test method as there is no knowledge in WG 5, on which the standard could be based.
- 3) Ability to release (only for locked doors in escape routes) is mainly linked with the locking device, which is defined by standards for building hardware, e.g. prEN 179 "Emergency exit devices ..."
But it has to be considered that industrial and other big doors need high forces for operation (opening) due to their weight, which cannot be brought up usually by persons in emergency. Also the use of special tools or means for the opening movement requires special information and training which is usually not present. As conclusion has to be said : Industrial and similar doors are normally not appropriate for escape routes, unless pass doors are incorporated in the door leaf. Besides of this, an extra emergency exit (pedestrian door) should be installed for the emergency situation.

(v) Durability aspects 4):

- 11 - Durability of self closing C against ageing/degradation
- 12 - Durability of ability to release against ageing/degradation
- 13 - Durability of water tightness against UV action (only for plastics), weathering and ageing/degradation
- 14 - Durability of thermal resistance against UV action (only for plastics), weathering and ageing/degradation
- 15 - Durability of air permeability against UV action (only for plastics), weathering and ageing/degradation

4) Durability, e.g. of self closing or water tightness, is mainly linked with properties of the materials and the specific conditions on site. As a great variety of materials as steel, aluminium, alloys, plastic, rubber, wood with different coatings is used, our groups have not the tools and the experience to write standards (or parts of it) to durability against ageing/degradation.

Knowledge in this respect could be achieved by research and long term test procedures.

(vi) Other aspects

The harmonised product standard will also contain :

- the classification system for the characteristic :

- Resistance to Fire

- as required by the Annex 3 of the mandate (or a reference to the EN containing this classification),
- references to other Directives and compliance conditions applying to the product : not relevant.
- a reference to the Commission's Decision on attestation of conformity.
- clauses on evaluation of conformity (including factory production control and supporting standards).
- 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.

E.1.2 Supporting standards

The following work items, prENs or ENs are proposed as test or calculation methods for the determination of the ess. characteristics required by the mandate and indicated in clause E.1.1 (iv) above :

1. Water tightness

prEN 12489 (under preparation by TC 33) 1999-12
Industrial, commercial and garage doors and gates - Resistance to water penetration - Test method

2. Resistance to wind load

prEN 12444 (under preparation by TC 33) 1999-12
Industrial, commercial and garage doors and gates - Wind load - Test methods.

3. Rate of release of dangerous substances (only for indoor impact)

No information concerning the substances to be taken into account is included in the mandate at present on this subject.

The issue will be addressed by the TC in detail later, after the finalization of the Annex 4 of the Mandate and relevant requirements of the Commission.

4. Thermal resistance

prEN 30077 (under preparation by TC 89) 1998-06
Windows doors and shutters - Thermal transmittance - Calculation method (ISO/DIS 10077 : 1993).

WI 00089023 1999-06
Windows and doors - Thermal transmittance - Calibrated and guarded hot box method

5. Air permeability

prEN 12427 (under preparation by TC 33) 1999-12
Industrial, commercial and garage doors and gates - Air permeability - Test method

prEN 1026 (under preparation by TC 33) 1999-06
Windows and doors - Air permeability - Test method

6. Resistance to fire E (integrity) and I (insulation)

prEN 1634-1 (under preparation by TC 127) 1998-12
Fire testing of door and shutter assemblies - Part 1 : Method of test for fire resistance of fire doors and shutters.

7. Smoke leakage S (only for applications where limitation of smoke spread is required)

prEN 1634-3 (under preparation by TC 127) 1998-12
Fire resistance - Doors and shutter assemblies - Part 3 : Smoke control doors.
(to be adapted to garage doors and gates by TC 33)

8. Self closing C (only for self closing fire doors)
(to be developed)

9. Ability to release (only for locked doors in escape routes)
(to be developed)

10. Operating forces (Safety in use, only for automatic devices)

prEN 12605 (under preparation by TC 33) 1999-12
Industrial, commercial and garage doors and gates - Mechanical aspect - Test method

prEN 12445 (under preparation by TC 33) 1999-12
Industrial, commercial and garage doors and gates - Safety in use - Test methods

11. Durability of self closing C against ageing/degradation
(to be developed)

12. Durability of ability to release against ageing/degradation
(to be developed)

13. Durability of water tightness against ageing / degradation, weathering and UV action

For durability against weathering and UV action, see comments in E.1.3.6 below.

14. Durability of the thermal resistance of doors against UV action, weathering, ageing / degradation

For durability against weathering and UV action, and ageing/degradation see comments in E.1.3.6 below.

15. Durability of air permeability against UV action, weathering, ageing / degradation

For durability against weathering and UV action, see comments in E.1.3.6 below.

E.1.3 Additional information, comments and remarks

(concerning only the specific product under E.1 in this case)

1. Deviations from a performance approach in the product standard mentioned in the E.1 above and/or in supporting standards.

NOTE : The TCs shall give here information on aspects required by the mandate where a performance approach cannot be followed and provide for each a detailed justification.

2. Requests for clarification on the scope of the mandate concerning the product under E.1.

NOTE : If necessary, the TCs shall request here clarification on the products and materials included in the scope of the mandate.

3. Requests for clarification on the intended uses concerning the product under E.1 :

NOTE : If necessary, the TCs shall request here clarification on the products and materials included in the scope of the mandate.

4. Requests for clarification on the ess. characteristics for the intended uses included in the mandate concerning the product under E.1 :

NOTE : If necessary, the TCs shall request here clarification on the ess. characteristics of the products and the intended uses included in the mandate.

5. Information on ess. characteristics required by the mandate concerning the product under E.1, for which no work has yet been started in the TC, or for which the TC cannot provide a standard :

NOTE : The TCs shall give here relevant information on the feasibility of the standard with a timetable. If a standard cannot be elaborated the TC shall provide detailed justification.

6. Explanation of the state of the art concerning durability issues :

Durability of water tightness, air permeability and thermal resistance against UV action and weathering is not tested on the doors and gates, but results from the compliance of the constituting materials to the state of the art or where available to ENs specifying the material.

7. Information on other Directives under which the product concerning the product under E.1 falls and compliance conditions.

Information on other Directives under which the product concerning the product under E.1 falls and compliance conditions.

Power operated door fall under :

- Machinery Directive,
- EMC Directive
- Low-Voltage Directive.

Machinery Directive :

1. Power operated doors are included in the scope of this Directive (see article 1, No 2 and 3).
2. Power operated doors have to comply with the essential health and safety requirements (EHSR) as defined **in annex 1**.
3. The EHSRs include in particular requirements for :
 - controls (clause 1.2.1 - 1.2.8) ;
 - protection against mechanical hazards (clause 1.3.1 -1.3.8) ;
 - guards and protection devices (1.4.1 - 1.4.3) ;
 - protection against fire (1.5.6) ;
 - protection against radiation (1.5.10) ;
 - protection against entrapment (1.5.14) ;
 - protection against slipping, tripping or falling (1.5.15) ;
 - maintenance (1.6.1 - 1.6.5) ;
 - information and warning devices, marking, instructions (1.7.0 - 1.7.4).
4. The level of compliance for a certain product is expressed by product specific according to the state of the art.

For industrial doors the link between Machinery Directive and Product standard for industrial doors is shown in a list enclosed ("extract of "Product standard of industrial doors"). But consider that the precise requirement, needed for industry, trade and administration is not given in the product standard but in the supporting standards.

In order words, the relevant clauses of the product and the supporting standards are needed to transpose this Directive for the appliance for industrial doors.

EMC Directive :

The essential safety requirements of the EMC Directive (Art. 4 and annex III)

safe emission and immission of electromagnetic radiation,

for industrial doors are also covered by the product standard and the referred standards EN 50 081 and 50 082.

Low Voltage Directive :

The essential safety requirements of the Low Voltage Directive (Art. 2 and annex I) in regard to industrial doors are included in the Machinery Directive.

8. Specific requests for additions to the mandate of materials, intended uses and ess. characteristics, etc. concerning the product under E.1.

Addition of ess. characteristics :

- for vertically operated doors and windows : anti-drop-devices, e.g. safety catches (see ID4 of CPD Nr. 3.3.1.3 Hazard : Falling due to changes in level or sudden drops)

- for all doors : not dangerous geometry of glazing/glass components : visibility (see ID4 of CPD Nr. 3.3.2.3 Hazard : Cutting at sharp edges ; push and running against not visible parts)

- for all doors : mechanical resistance and stability (see ID4 of CPD Nr. 3.3.2.3 Hazards : Break down of doors or components injuring people)

Reasons for the request :

In several European countries exist legal regulations which include requirements for these subjects. These regulations will be barriers to trade unless harmonized European Standards are not available.

See addendum 1, attached.

9. Other issues which the TC considers necessary for the comprehension of the answer to the mandate, concerning the product under E.1.

Annex 1

Extract of "Product standard of industrial doors"

4.2 List of significant mechanical and electrical hazards

The list of hazards is based on EN 414 and Machinery Directive Annex 1. The list includes significant hazards which may occur in the use of industrial, commercial and garage doors and gates. The relevant clauses in this standard are designed to avoid or safeguard against the hazard or to reduce the risk.

Table 2 : Significant hazards

EN 414 Ref. No	Machinery Directive Annex 1 Ref. No.	Hazards	Relevant clause in this standard
1	1.3	Mechanical hazards, caused by	
1.1	1.3.7	- Crushing hazard	5.10
1.2	1.3.7	- Shearing hazard	5.10
1.3	1.3.4 1.3.7	- Cutting hazard	5.10, 5.19
1.4	1.5.14	- Entanglement hazard	5.10
1.5	1.3.7	- Drawing-in or trapping hazard	5.10
1.6	1.3.7	- Impact hazard	5.11
1.10	1.5.15	- Falling of parts	5.12, 5.13
1.11	1.3.1	- Loss of stability	5.12, 5.14
1.12	1.5.15	- Trip hazard	5.15
2		Electrical hazard caused by	
2.1	1.5.1	- electrical contact	5.16
2.4	1.5.11	- external influences on electrical equipment	5.16
4		Hazards generated by noise, resulting in	
4.1	1.5.8	- hearing losses or others	5.17
4.2	1.5.8	- interference with speech communication	5.17
6		Hazards generated by radiation, especially by	
6.4	1.5.11	- electromagnetic fields	5.16
7		Hazards generated by material or substances e.g.	
7.2	1.5.6 1.5.7	- fire or explosion hazards	5.16

8		Hazards generated by neglecting ergonomic principles	
8.1	1.1.5	- excessive efforts	5.5
10		Hazards caused by failure of energy supply	
10.1	1.2.6	- failure of energy supply	5.16
10.2	1.2.6	- unexpected ejection of parts	5.12, 5.14
10.3	1.2.1	- failure, malfunction of control system	5.16
10.4	1.2.7	- errors of fitting	5.16
11		Hazards caused by missing and/or uncorrectly positioned safety related measures/means, e.g.	
11.1	1.4.1, 1.4.2, 1.4.3	- guards	5.18
11.2	1.3.8	- safety related (protection) devices	5.10, 5.18
11.5	1.7	- information or warning devices	5.18
11.6	1.2.2, 1.2.4	- energy supply disconnecting devices	5.16, 5.18
11.9	1.6	- equipment for safe adjusting and/or maintaining	5.18

Addendum 1

Answer to the Mandate M101

INDUSTRIAL, COMMERCIAL, GARAGE DOORS AND GATES

Request for the addition of essential characteristics in Mandate M101

Addition of ess. characteristics :

- for vertically operated doors and windows : anti-drop-devices, e.g. safty catches (see ID4 of CPD Nr. 3.3.1.3 Hazard : Falling due to changes in level or sudden drops)

- for all doors : not dangerous geometry of glazing/glass components : visibility (see ID4 of CPD Nr. 3.3.2.3 Hazard : Cutting at sharp edges ; push and running against not visible parts)

- for all doors : mechanical resistance and stability (see ID4 of CPD Nr. 3.3.2.3 Hazards : Break down of doors or components injuring people)

Reasons for the request :

In several European countries exist legal regulations which include requirements for these subjects. These regulations will be barriers to trade unless harmonized European Standards are not available.

Such regulations are e.g. :

France :

- Loi n° 89-421 du 23 juin 1989 relatif aux portes automatiques et semi-automatiques de garage
- Décret n° 90-567 du 5 juillet 1990 relatif aux portes automatiques de garage
- Arrêté du 1er 1991 relatif à la mise en conformité des portes de garage des bâtiments d'habitation
- Arrêté du 21 décembre 1993 relatif aux portes et portails automatiques et semi-automatiques sur les lieux de travail

UK

- Building Regulations for England and Wales including Workplace Regulations 1992
- Approved Documents
- K 5 Safe use of doors
- N 1/2 Glazing - materials and protection

Germany :

- Workplace Regulation 1975 (Arbeitsstätten - Verordnung - ArbStättV and Arbeitsstätten - Richtlinien - ASR) § 10 and 11, ASR 10 and 11.

Finland :

- Decision 300/94 by the Ministry of Trade and Industry § 51, Letter KY 160-94 issued by the Electrical Inspection Authority

Power operated doors are subject to the same authority regulations as lifts

Sweden :

- Regulations of the National Board of Physical Planning and Building BBR 94 (Boverket Bygg Regler) enforced by a law called PBL
- Swedish Building Code SBN 1975, applied by national authorities

Addendum 2

Answer to the Mandate M101

BUILDING HARDWARE

1- In a number of European countries it is common practise for individual items of hardware for use on fire resisting doors to be placed on the market separately from door leaves and frames. The performance of these items has a critical impact, in particular on the ability of a fire or smoke door performing its safety function satisfactory during the economic life of the building.

2- We bring to your attention the German Bauregelliste A which under para 6 lists the regulations that apply in that country. Paragraphs 6.11 - 6.19 refer to requirements for locks, door closing devices, automatic door operators, electrically powered hold open devices and swing free closers, hinges for fire doors, door furniture, automatic sliding doors on escape routes and locking devices on escape routes. A copy of the current pages is attached for easy reference.

3- Taking into account the foregoing information, the following work items should be moved from supporting standards to product standards :

EN 1154	Available
Building hardware - Controlled door closing devices - Specifications and test methods	
- paragraphs : 6 - 7.1 - 7.2 - 7.3 - 7.4.	

EN 1155	Available
Building hardware - Electrically powered hold-open devices - Specifications and test methods -	
paragraphs : 6 - 7.1 - 7.2 - 7.3.	

EN 1158	Available
Building hardware - Doors coordinator devices - Specifications and test methods -	
paragraphs : 6 - 7.1 - 7.2 - 7.3.	

prEN 1906 (under preparation by TC 33)	1998-12
Building hardware - Lever handles and knobs - Requirements and test methods.	

5- We propose that the following product groups should be added to the hardware product standards covered by the mandate :

prEN 1935 (under preparation by TC 33)	1998-06
Building hardware - Single-axis hinges - Requirements and test methods	

prEN 12209 (under preparation by TC 33)	1998-12
Building hardware - Locks and latches -	
Part 1 : Mechanically operated locks and latches - Requirements and test methods	
Part 2 : Striking plates for mechanically operated locks and latches - Requirements and test methods.	

Product	Intend. Use	Product EN	Materials in mandate	Materials CEN answ.	Ess. Charact.	Test Methods	Durability	
							against	Test Methods
DOORS	<u>General</u>	00033233	metal, timber plastic, glass	Any	- rate of release of dangerous substances - impact resistance (for glazed doors) - Height - direct airborne sound insulation index	- - prEN 12600/ prEN 949 - prEN 951-1 - EN 20140-3 + EN 20717-1		
	<u>Fire compartment.</u>	00033233	metal, timber, plastic, glass	Any	-Resistance E, I - Smoke leakage S - self closing C - ability to release	-prEN 1634-1 -prEN 1634-3 - EN1154, EN1155, EN1158, prEN1906, prEN1191 - prEN1125,17 9, 12650-2, 00033111	ageing/degradati on ageing/degradati on	- prEN 1670 - prEN 1670

	<u>External</u>	00033233	metal, timber, plastic, glass	Any	- water tightness - res. to wind load - thermal resistance	-prEN 1027 - prEN 12211 - prEN 30077 + 00089023	UV/weather/ag+ deg UV/weather/ag+ deg	-/-prEN 1027, 1191, 513 -/-/-
	<u>Internal landing com. doors</u>	00033233	metal, timber, plastic, glass	Any	- air permeability - operating forces	- prEN 1026 00033XYZ	UV/weather/ag+ deg ageing/degradati on	-/-prEN 1026, 1191 -

Product	Intend. Use	Product EN	Materials in mandate	Materials CEN answ.	Ess. Charact.	Test Methods	Durability	
							against	Test Methods
WINDOWS	<u>General</u>	00033231	concrete, metal, timber plastic, glass	Any	- release of dangerous substances - thermal resistance	- -prEN 30077 + 00089023		-/-
	<u>Fire compartment.</u>	00033231	concrete, metal, timber, plastic, glass	Any	-Resistance E, I - Smoke leakage S	-prEN 1634-1 -prEN 1634-3		
	<u>External</u>	00033231	concrete, metal, timber, plastic, glass	Any	- water tightness - res. to wind load - direct airborne sound insulation index - air permeability	-prEN 1027 - prEN 12211 - EN 20140-3 + EN 20717-1 - prEN 1026	UV/weather/ag+ deg UV/weather/ag+ deg	-/-prEN 1027, 1191, 513 -/-prEN 1026, 1191

Product	Intend. Use	Product EN	Materials in mandate	Materials CEN answ.	Ess. Charact.	Test Methods	Durability	
							against	Test Methods
BLINDS AND SHUTTERS	<u>General</u>	00033143 00033234	metal, timber, plastic,	Any	- resistance to wind load	- prEN 1932		

Product	Intend. Use	Product EN	Materials in mandate	Materials CEN answ.	Ess. Charact.	Test Methods	Durability	
							against	Test Methods
BUILDING HARDWAR E	General	00033111	metal, plastic,	Any	- ability to release	- prEN 1125, prEN 179, prEN 1154, prEN 1155, prEN 12209-2	ageing + degradation	- prEN 1670, prEN 1125, prEN 179, prEN 1154, prEN 1155, prEN 1158
		00033244						
		prEN 1125						
		prEN 179						
		prEN 1154						
		prEN 1155						
		prEN 1158						
		prEN 1935						
		prEN 12209-1						

Product	Intend. Use	Product EN	Materials in mandate	Materials CEN answ.	Ess. Charact.	Test Methods	Durability	
							against	Test Methods
INDUSTRIAL, COMMERCIAL, GARAGES DOORS AND GATES	<u>General</u>	00033256	Metal, timber, plastics, glass	Any	- Water tightness	- prEN 12489	UV/weather/ag+ deg	-
					- Resistance to wind load	- prEN 12444		
					- Rate of release of dangerous substances	-		
					- Thermal resistance	-prEN 30077 + 00089023	UV/weather/ag+ deg	-
					- Air permeability	- prEN 12427, 1026	UV/weather/ag+ deg	-
	<u>Fire Compartment</u>	00033256	Metal, timber, plastics, glass	Any	- Resistance to fire E, I	-prEN 1634-1		
					- Smoke leakage S	-prEN 1634-3		
					- Self closing C	-	ageing/degradation	-
					- Ability to release	-	ageing/degradation	-

	<u>Power operated doors</u>	0033256	Metal, timber, plastics, glass	Any	- Operating forces	-prEN 12605, 12445		
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EC acceptance of CEN/TC 33 answer to the

Mandate M/101

**DOORS, WINDOWS, SHUTTERS,
GATES AND RELATED BUILDING
HARDWARE**

COMMISSION SERVICES LETTER OF ACCEPTANCE TO CEN

MANDATE M/101

DOORS, WINDOWS, SHUTTERS, GATES AND RELATED BUILDING HARDWARE

On 6 juin 1998, Mr. Vardakas - Director of Direction B/DG III - addressed to Mr. Hongler , General Secretary of CEN, the Commission Services " Letter of acceptance ", with regard to CEN letter of 20 Mai 1998, transmitting the work programme for the development of harmonised standards for Mandate M/101

Having analysed the content of the work programme proposed by CEN in answer to the mandate M/101 for the above mentioned family of products, the Commission Services found such a work programme to be acceptable in general terms.

For the preparation of the harmonised standards, nevertheless, a certain number of observations had to be taken into account. These observations were transmitted to CEN in an attached annex.

Annex referring to the comments made by the Commission Services to the work programme presented by CEN in answer to the

MANDATE M/101 on DOORS, WINDOWS, SHUTTERS, GATES AND RELATED BUILDING HARDWARE

General

The technical committee is requested to take into account all of the written comments of the CEN consultant. The fact that only some of these comments are discussed here does not imply that the remainder can be neglected.

Acceptance of the work programme by the Commission services does not imply acceptance of the EN standards that CEN intends to elaborate in response to the mandate. The conformity of these standards with the mandate and the CPD will be the subject of a further examination by the CEN consultant(s) in due course.

Part 0 - General comments section

The comments on the system of attestation of conformity are noted, and will be addressed when the Commission decision on this family of products is re-presented to the Standing Committee on Construction (the original decision having been annulled by the European Court of Justice – Case No. C 263/95).

The request for the addition of the characteristic "*safe opening*" (anti-drop devices etc) for doors and windows can be accepted, based on the justification provided by CEN.

The request for the addition of the characteristic "*definition of geometry of glass components*" for doors can be accepted, based on the justification provided by CEN.

The request for the addition of the characteristic "*mechanical resistance and stability*" for doors can be accepted, based on the justification provided by CEN.

Part A

Product A.1

The scope of the proposed EN could be widened to include products other than complete door sets, if CEN consider this to be appropriate. For example, many doors are placed on the market without their complete hardware. If this is the case, CEN is requested to propose a summary table showing which of the mandated characteristics would be appropriate for each type of product.

CEN are reminded that the characteristic "*release of dangerous substances*" needs to be dealt with in the harmonised standard.

For the characteristic "*self closing C*" a link should be made to the work of CEN TC127 in response to the horizontal mandate on resistance to fire. The characteristic is tested on the whole door and not simply on the hardware, as is implied by the references only to hardware standards.

The use of the two methods of determination for the characteristic "*thermal resistance*" needs to be clarified. If more than one method is available for the same product, or family of products, a correlation between them must be developed. If this is not the case, the situation must be justified and an indication of the application of the tests given.

The comments on durability can be accepted only if they genuinely reflect the state of the art at present.

The date of availability of the product standard needs to be clarified, given that the test method for the characteristic "*operating forces*" will not be available until 2000-12. In addition, there is no date given for the assessment of the durability of this characteristic.

Part B

Product B.1

See comment 7 above regarding the scope of the proposed product standard. A similar situation could be envisaged for windows.

Comments 8, 10 and 11 above on dangerous substances, thermal resistance and durability also apply to this family of products.

Part C

Products C.1 and C.2

No specific comments.

Part D

The request for the addition, where relevant, of the characteristic "*self closing*" and its durability can be accepted, based on the justification provided by CEN.

The references to EN 29002 and EN 45000 throughout this family of products needs to be clarified. Compliance with these standards cannot be made compulsory by the harmonised product standards.

CEN will need to deal with the other directives mentioned in an appropriate manner.

The dates of availability of the harmonised product standards need to be clarified. Some are shown as already available, which is clearly not the case. CEN are requested to produce further detail on this matter.

The comments on durability can be accepted only if they genuinely reflect the state of the art at present.

Products D.1 to D.8

No comments other than the general part D comments above.

Products D.9

The characteristic "*resistance to fire*" was not mandated, and does not appear to be appropriate for these products. Further justification is therefore required before this request can be accepted.

The general part D comments above also apply.

Part E

Product E.1

The limitation on the dimensions of these products needs to be clarified.

The statement on the characteristic "*release of dangerous substances*" and air permeability cannot be accepted. The characteristic needs to be dealt with in the harmonised standard in an appropriate manner.

The comments on durability can be accepted only if they genuinely reflect the state of the art at present.

The use of the two methods of determination for the characteristics "*thermal resistance*", "*air permeability*", and "*operating forces*" needs to be clarified. If more than one method is available for the same product, or family of products, a correlation between them must be developed. If this is not the case, the situation must be justified and an indication of the application of the tests given.

CEN are requested to provide dates of availability for the supporting standards numbered 8, 9, 11 and 12.

CEN will need to deal with the other directives mentioned in an appropriate manner.