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ENTERPRISE DIRECTORATE-GENERAL

Single Market, regulatory environment, Industries under vertical legislation
Conformity and standardisation, new approach, industries under new approach

Brussels, 26 June 2001

M 139 - EN

ADDENDUM TO:

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

**M109 – FIRE ALARM/DETECTION, FIXED
FIREFIGHTING, FIRE AND SMOKE
CONTROL AND EXPLOSION
SUPPRESSION PRODUCTS**

This addendum modifies the original mandate in the following manner:

- The existing mandate **M109 FIRE ALARM/DETECTION, FIXED FIREFIGHTING, FIRE AND SMOKE CONTROL AND EXPLOSION SUPPRESSION PRODUCTS** does not include some products for which Regulations exist in Member States.
- Sprinklers were included in the original mandate, however sprinkler system components were not specifically defined. These products are essential components that can be sold as individual components not just as part of a 'sprinkler kit'. These items are to be included in the suppression section of the mandate. This is because although the titles include the term 'alarm', they do not meet the definition of alarm as given by the Technical Committee (TC72).
- Seven products relating to CO₂, inert and halocarbon gas fire extinguishing systems are not covered by the mandate M109. The TC191 have requested their addition given that Regulations exist in member States covering these products. These products are:-
 - Fixed firefighting system components for gas extinguishing systems -
 - High pressure container valve assemblies and their actuators
 - Selector valves and their actuators
 - Non-electrical disable devices
 - Flexible connectors
 - Pressure gauges and pressure switches
 - Mechanical weighing devices

- Check valves and non-return valves

- The corresponding Commission Decision 96/577/EC will be amended accordingly
- Annex A to this document outlines the changes needed.

ANNEX A

In table in Annex 1 of mandate M109, add the new product families

ANNEX 1

M109 FIRE ALARM/DETECTION, FIXED FIREFIGHTING, FIRE AND SMOKE CONTROL AND EXPLOSION SUPPRESSION PRODUCTS

LIST OF PRODUCTS TO BE INCLUDED IN THE MANDATE FOR:

FORM	MATERIALS	PRODUCTS FOR CONSIDERATION
Systems/ Components	metals plastics glass	FIRE SUPPRESSION AND EXTINGUISHING SYSTEMS – COMPONENTS Sprinkler system – components - Wet alarm valve assemblies - Dry alarm valve assemblies - Deluge alarm valve assemblies - Multiple controls Fixed firefighting system components for gas extinguishing systems - - High pressure container valve assemblies and their actuators - Selector valves and their actuators - Non-electrical disable devices - Flexible connectors - Pressure gauges and pressure switches - Mechanical weighing devices - Check valves and non-return valves

Add new products to the section on **FIRE SUPPRESSION AND EXTINGUISHING SYSTEMS – COMPONENTS** in Annex 2 of mandate M109

ANNEX 2
TECHNICAL TERMS OF REFERENCE

Family and subfamilies

FIRE SUPPRESSION AND EXTINGUISHING SYSTEMS – COMPONENTS

Description of the family: components sold individually to form part of a system. Components included in this mandate are: hydrants, water flow detectors/switches, pressure detectors/switches, landing valves, inlet breeching, firefighting pumps, nozzles/outlets, sprinkler system components and fixed firefighting system components for gas extinguishing systems.

Note that other possible components of these systems, namely smoke, heat and flame detectors, control and indicating equipment, alarm transmission routing equipment, alarm devices, power supplies and manual control points are covered under the family of components for alarm/detection systems.

9 – SPRINKLER SYSTEM COMPONENTS

Includes wet alarm valve assemblies, dry alarm valve assemblies, deluge alarm valve assemblies and multiple controls.

10 - HIGH PRESSURE CONTAINER VALVE ASSEMBLIES AND THEIR ACTUATORS

Container valve assemblies for CO₂-high pressure, inert gas or halocarbon gas-fire extinguishing systems, which include container valve actuator and, if applicable, a diptube.

11 - SELECTOR VALVES AND THEIR ACTUATORS

Selector valves and their actuators used in CO₂, inert-gas or halocarbon gas extinguishing system

12 – NON-ELECTRICAL DISABLE DEVICES

Non-electrical disable devices that prevent during maintenance work in the protected room or object any kind of unintentional release (automatic or manual) of CO₂, inert-gas or halocarbon gas extinguishing system or in a multiple zone system of each individual flooding zone without disabling the fire detection and alarm functions.

13 – FLEXIBLE CONNECTORS

Flexible connectors used in CO₂, inert-gas or halocarbon gas-fire extinguishing systems.

14 – PRESSURE GAUGES AND PRESSURE SWITCHES

Pressure gauges are used e.g. for monitoring of pilot, alarm and storage containers of fire extinguishing systems filled with non-liquefied inert gases or pressurised halocarbon gases. Pressure switches are used e.g. for monitoring of pilot, control, alarm and storage containers of fire extinguishing systems filled with non-liquefied or pressurised halocarbon gases and remote indication of leakage.

15 – MECHANICAL WEIGHING DEVICES

Mechanical weighing devices for continuous monitoring of containers of CO₂, inert-gas or halocarbon gas-fire extinguishing installations.

16 – CHECK VALVES AND NON-RETURN VALVES

Check valves installed between container valve and manifold and non-return valves installed in pilot lines except those valves, which are tested in combination with non-electrical control devices. Non-return and check valves shall allow the passage in the direction of flow and they shall prevent flow in the reverse direction.

Characteristics to be covered by the harmonized standard will be:

E R	PERFORMANCE CHARACTERISTICS	Durability
1		
2	<p><i>FOR THE COMPONENTS:</i></p> <p><i>SPRINKLER SYSTEM COMPONENTS</i> OPERATIONAL RELIABILITY NOMINAL ACTIVATION CONDITIONS/SENSITIVITY DISTRIBUTION OF EXTINGUISHING MEDIA RESPONSE DELAY</p> <p>FIXED FIREFIGHTING SYSTEM COMPONENTS FOR GAS EXTINGUISHING SYSTEMS –</p> <p><i>HIGH PRESSURE CONTAINER VALVE ASSEMBLIES AND THEIR ACTUATORS</i> OPERATIONAL RELIABILITY DISTRIBUTION OF EXTINGUISHING MEDIA</p> <p><i>SELECTOR VALVES AND THEIR ACTUATORS</i> OPERATIONAL RELIABILITY DISTRIBUTION OF EXTINGUISHING MEDIA</p> <p><i>NON-ELECTRICAL DISABLE DEVICES</i> OPERATIONAL RELIABILITY</p> <p><i>FLEXIBLE CONNECTORS</i> OPERATIONAL RELIABILITY PERFORMANCE UNDER FIRE CONDITIONS</p> <p><i>PRESSURE GAUGES AND PRESSURE SWITCHES</i> NOMINAL ACTIVATION CONDITIONS/SENSITIVITY OPERATIONAL RELIABILITY</p> <p><i>MECHANICAL WEIGHING DEVICES</i> OPERATIONAL RELIABILITY</p> <p><i>CHECK VALVES AND NON-RETURN VALVES</i> OPERATIONAL RELIABILITY DISTRIBUTION OF EXTINGUISHING MEDIA</p>	Y
3		
4		
5		
6		

In the table in Annex 3 of mandate M019, **system of attestation of conformity** –add the new products

ANNEX 3

Product(s)	Intended use(s)	Level(s) or class(es) (<i>resistance to fire*</i>)	Attestation of conformity system(s)
<p><u>Components</u> <i>Fixed suppression and extinguishing</i></p> <p>Wet alarm valve assemblies Dry alarm valve assemblies Deluge alarm valve assemblies Multiple controls High pressure container valve assemblies and their actuators Selector valves and their actuators Non-electrical disable devices Flexible connectors Pressure gauges and pressure switches Mechanical weighing devices Check valves and non-return valves</p>	<p>Fire safety</p>		<p>1</p>
<p>System 1: See CPD Annex III.2.(i), without audit-testing of samples</p>			

ADDENDUM TO :

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

Precast concrete products

This addendum modifies the original mandate in the following manner :

- The product “non-loadbearing wall elements” shall be added of the mandate **PRECAST CONCRETE PRODUCTS**, such that it shall read as shown in Annex A below
- The intended use concerned is 4/33 (External walls - including cladding - and internal walls and partitions)
- The corresponding Commission Decision (1999/94/EC) does not need to be changed as it covers these products

ANNEX A

ADDITION TO ANNEX 1 OF MANDATE

In the column PRODUCTS FOR CONSIDERATION add “non loadbearing wall elements” after loadbearing elements.

ADDITION TO ANNEX 2 OF MANDATE

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

FAMILY AND SUBFAMILIES

PRECAST NORMAL/LIGHTWEIGHT/AUTOCLAVED AERATED CONCRETE PRODUCTS

Non-loadbearing wall elements

Self-supporting, ceiling to floor, factory finished elements to be used in non-loadbearing walls

TO BE USED IN

- 4/33 External walls - including cladding - and internal walls and partitions

Characteristics to be covered by the harmonised standards will be :

E R	PERFORMANCE CHARACTERISTICS *	DURABILITY
1		Y
2	Reaction to fire (<i>for elements made of LWC* and AAC**</i>) Resistance to fire (<i>for compartmentation walls</i>)	(e.g. against corrosion, freeze-thaw, water, chemicals, ..., as relevant)
3	Water vapour permeability (<i>for external walls</i>) Water permeability (<i>for external walls</i>) Dangerous substances ***	

4	<ul style="list-style-type: none"> . Compressive strength (<i>of concrete</i>) . Ultimate tensile and tensile yield strength (<i>of steel</i>) Detailing <ul style="list-style-type: none"> ✓ (<i>in case of verification by testing</i>) : <ul style="list-style-type: none"> . Resistance to horizontal loads, . Resistance to eccentric loads**** ✓ (<i>in case of verification by calculation</i>) : <ul style="list-style-type: none"> . Mechanical strength (<i>only to verify maximum horizontal and eccentric loads capable to resist, when relevant</i>) expressed in terms of: bending, tension, compression, shear, torsion or punching shear strength, as relevant; . density (<i>only for elements manufactured with LWC* and AAC**</i>) . Drying shrinkage (<i>in end use conditions and only for elements manufactured with LWC* and AAC**</i>) . Impact resistance
5	Airborne sound insulation
6	Thermal resistance

* LWG : Lightweight aggregate concrete

**AAC : Autoclaved Aerated Concrete

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

**** suspended loads with limited weight

ADDITION TO ANNEX 3 OF MANDATE

Modify table in 1/2 as follows:

Product	Intended use	Level(s) and class(es)	Attestation of conformity system
Loadbearing wall elements	Structural	----	2+
Non-loadbearing wall elements	Non structural or lightly structural	----	4
System 2+: See DPC Annex III.2.(ii) First possibility, including certification of the factory production control by an approved body on the basis of its continuous surveillance, assessment and approval. System 4: See CPD Annex III.2.(ii) Third possibility			

ADDENDUM TO :

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

GYPSUM PRODUCTS

This addendum modifies the original mandate in the following manner :

- The product “Fibrous gypsum plaster cast” shall be added of the mandate **GYPSUM PRODUCTS**, such that it shall read as shown in Annex A below
 - ✓
to the Annex 1, in the section relating to use 4/33, 5/33, 10/33, 12/33, 14/33
 - ✓
to the annex 2, in the section relating to use 4/33 and 12/33
 - ✓
to the Annex 3 in the table 1/4, 2/4 and 3/4
- This is to over for which the intended use in 4/33 (External walls - including cladding - and internal walls and partitions), 5/33 (galleries and ceilings), 10/33 (suspended ceilings), 12/33 (internal finishes of walls and partitions) and 14/33 (ceiling finishes)
- The corresponding Commission Decision 95/467/EC will be amended accordingly

ANNEX A

ADDITION TO ANNEX 1 OF MANDATE

The following row is added to the table in Annex 1, in the section relating to use “4/33 EXTERNAL WALLS (including cladding), INTERNAL WALLS AND PARTITIONS”:

FORM	MATERIALS	PRODUCTS FOR CONSIDERATION
Sections Rigid sheets	Gypsum + reinforcement (organic, mineral or metal)	Fibrous gypsum plaster casts for partitions

The following row is added to the table in Annex 1, in the section relating to use “5/33 FLOORS, GALLERIES AND CEILINGS”:

FORM	MATERIALS	PRODUCTS FOR CONSIDERATION
Rigid sheets	Gypsum + reinforcement (organic, mineral or metal)	Fibrous gypsum plaster casts for ceilings, vaults, domes

The following row is added to the table in Annex 1, in the section relating to use “10/33 SUSPENDED CEILINGS”:

FORM	MATERIALS	PRODUCTS FOR CONSIDERATION
Rigid sheets Rigid tiles	Gypsum + reinforcement (organic, mineral or metal)	Fibrous gypsum plaster casts for suspended ceilings, ceiling membranes

The following row is added to the table in Annex 1, in the section relating to use “12/33 INTERNAL FINISHES OF WALLS AND PARTITIONS” :

FORM	MATERIALS	PRODUCTS FOR CONSIDERATION
Sections	Gypsum + reinforcement (organic, mineral or metal)	Fibrous gypsum plaster casts for encasements, casings
Rigid sheets	Gypsum + reinforcement (organic, mineral or metal)	Fibrous gypsum plaster casts for internal linings to walls and partitions, structures for acoustic/fire improvement

The following row is added to the table in Annex 1, in the section relating to use “14/33 CEILING FINISHES” :

FORM	MATERIALS	PRODUCTS FOR CONSIDERATION
Rigid sheets	Gypsum + reinforcement (organic, mineral or metal)	Fibrous gypsum plaster casts for linings to ceilings

ADDITION TO ANNEX 2 OF MANDATE

The following family of products is added to Annex 2, in the section relating to use “4/33 EXTERNAL WALLS (including cladding), INTERNAL WALLS AND PARTITIONS” and “12/33 INTERNAL FINISHES OF WALLS AND PARTITIONS”:

FAMILY AND SUBFAMILIES

Fibrous gypsum plaster casts for walls and partitions

Characteristics to be covered by the harmonised standards will be :

E R	PERFORMANCE CHARACTERISTICS *	DURABILITY
1		Y (e.g. against water, chemicals, ..., as relevant)
2	Reaction to fire Resistance to fire	
3	Release of dangerous substances *	
4	Impact resistance (for fire protection and/or compartmentation)	
5	Direct airborne sound insulation Acoustic absorption	
6	Thermal resistance	

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

The following family of products is added to Annex 2, in the section relating to use “5/33 FLOORS, GALLERIES AND CEILINGS”, “10/33 SUSPENDED CEILINGS ” and “14/33 CEILING FINISHES”:

FAMILY AND SUBFAMILIES

Fibrous gypsum plaster casts for ceilings

Characteristics to be covered by the harmonised standards will be :

E R	PERFORMANCE CHARACTERISTICS *	DURABILITY
1		Y
2	Reaction to fire Resistance to fire	(e.g. against water, chemicals, ..., as relevant)
3	Release of dangerous substances *	
4	Impact resistance (for fire protection and/or compartmentation)	
5	Direct airborne sound insulation Acoustic absorption	
6	Thermal resistance	

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

ADDITION TO ANNEX 3 OF MANDATE

In Annex 3 the following text is inserted in the “Product(s)” column of the tables for product families “Gypsum products (1/4)”, “Gypsum products (2/4)” and “Gypsum products (4/4)”, after the existing text : “Fibrous gypsum plaster casts”

ATTESTATION OF CONFORMITY

Product family: gypsum products (1/4)

Product(s)	Intended use(s)	Level(s) or class(es) <i>(reaction to fire) (1)</i>	Attestation of conformity system(s)
Fibrous gypsum plaster casts, including relevant ancillary products	in walls, partitions or ceilings (or lining thereof) subject to reaction to fire requirements	(of incorporated materials) A1 ⁽²⁾ , A2 ⁽²⁾ , B ⁽²⁾ , C ⁽²⁾	1 ⁽⁴⁾
		A1 ⁽³⁾ , A2 ⁽³⁾ , B ⁽³⁾ , C ⁽³⁾ , D, E	3 ⁽⁵⁾
		A1 to E ⁽⁷⁾ - F	4 ⁽⁶⁾

(1) For reaction to fire, see Commission Decision 2000/147/EC (OJ L 50,23.02.2000 page 14)

(2) Products/materials for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification (e.g. an addition of fire retardants or a limiting of organic material)

(3) Products/materials not covered by footnote (2).

(4) System 1: See CPD Annex III.2.(i), without audit-testing of samples

(5) System 3: See CPD Annex III.2.(ii), Second possibility

(6) System 4: See CPD Annex III.2.(ii), third possibility

(7) Products/materials that do not require to be tested for reaction to fire (e.g. Products/materials of classes A.1 according to Commission Decision 96/603/EC as amended)

Product family : gypsum products (2/4)

Product(s)	Intended use(s)	Level(s) or class(es) <i>(resistance to fire)</i>	Attestation of conformity system(s)
Fibrous gypsum plaster casts, including relevant ancillary products	in walls, partitions or ceilings, as relevant intended for fire protection of structural elements and/or fire compartmentation in buildings	Any	3
System 3: See CPD Annex III.2.(ii), Second possibility			

Product family : gypsum products (4/4)

Product(s)	Intended use(s)	Level(s) or class(es) <i>(resistance to fire)</i>	Attestation of conformity system(s)
Fibrous gypsum plaster casts, including relevant ancillary products	in walls, partitions or ceilings, as relevant for situations and use not mentioned in (1/4), (2/4) or (3/4)	-	4
System 4: See CPD Annex III.2.(ii), Third possibility			

CORRECTION TO:

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

M125 - AGGREGATES

Certain inconsistencies appear between Annex II and Annex III of this mandate, and therefore correction is needed. This does not constitute changes to the content of the mandate – just simple correction.

- The tables in Annex 3 does not currently include the intended use “*in buildings*” for *Aggregates for concrete mortar and grout*, or
- intended use “*in buildings, the manufacturing of pre-cast concrete products*” for *Fillers for concrete mortar and grout*.
- The corresponding Commission Decision 98/598/EC will be amended accordingly.

Annex A to this document outlines the changes needed.

ANNEX A

The tables (1/2) and (2/2) in Annex 3 to the mandate should read: -

Table (1/2). Aggregates for uses without high safety requirements.

Product(s)	Intended use(s)	Level(s) or class(es)	Attestation of conformity system(s)
Aggregates for concrete, mortar and grout	in buildings, roads and other civil engineering works	-	4
Aggregates for - bituminous mixtures and surface treatments - unbound and hydraulically bound mixtures	for roads and other civil engineering works	-	4
Armourstones	for hydraulic structures and other civil engineering works	-	4
Railway ballast	For railroad works	-	4
Fillers for concrete mortar and grout	in buildings, the manufacturing of pre-cast concrete products, for roads and other civil engineering works	-	4
Fillers for bituminous mixtures and surface treatments	for roads and other civil engineering works	-	4
System 4: See CPD Annex III.2.(ii), Third possibility			

Table 2/2 Aggregates for uses with high safety requirements

Product(s)	Intended use(s)	Level(s) or class(es)	Attestation of conformity system(s)
Aggregates for concrete, mortar and grout	in buildings, roads and other civil engineering works	-	2+
Aggregates for - bituminous mixtures and surface treatments - unbound and hydraulically bound mixtures	for roads and other civil engineering works	-	2+
Armourstones	for hydraulic structures and other civil engineering works	-	2+
Railway ballast	For railroad works	-	2+
Fillers for concrete mortar and grout	in buildings, the manufacturing of pre-cast concrete products, for roads and other civil engineering works	-	2+
Fillers for bituminous mixtures and surface treatments	for roads and other civil engineering works	-	2+
System 2+: See CPD Annex III.2.(ii), First possibility, including certification of the factory production control by an approved body on the basis of initial inspection of factory and of factory production control as well as of continuous surveillance, assessment and approval of factory production control.			

CORRECTION TO:

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

M110 - SANITARY APPLIANCES

Certain inconsistencies appear between Annex II and Annex III of this mandate, and therefore correction is needed. This does not constitute changes to the content of the mandate – just simple correction.

- The tables in Annex 3 does not currently include the intended use “*preparation of food, the washing of dishes and the discharge of domestic waste water*” for Sinks.
- The corresponding Commission Decision 96/578/EC will be amended accordingly.

Annex A to this document outlines the changes needed.

ANNEX A

In Annex 3 to the mandate - Table 1 /1 “**Sanitary appliances**, the table currently reads:-

Product(s)	Intended use(s)	Level(s) or class(es) <i>(Reaction to fire)</i> ¹	Attestation of conformity system(s)
Sinks, basins and communal troughs; bath tubs and shower trays; bidets; urinals; water closet bowls or pans; earth, chemical and composting closets; macerating toilets; squatting toilets; flushing cisterns; whirlpool baths; shower and bath screens and enclosures	Personal hygiene	-----	4
preformed toilet modules	Personal hygiene	-----	4
modular public toilets, and prefabricated toilet pods	Personal hygiene	A1*, A2*, B*, C* ----- A1**, A2**, B**, C**, D, E ----- (A1 to E)***, F	1 ----- 3 ----- 4
<p>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 * Products/ materials for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification (e.g. an addition of fire retardants or a limiting of organic material) ** Products/ materials not covered by footnote (*). *** Products/ materials that do not require to be tested for reaction to fire (e.g. Products/materials of class A1 according to the Decision 96/603/EC, as amended).</p>			

¹ For reaction to fire, see Commission Decision 94/611/EC

It *should* read:-

Product(s)	Intended use(s)	Level(s) or class(es) <i>(Reaction to fire)</i> ²	Attestation of conformity system(s)
Sinks	Preparation of food, the washing of dishes and the discharge of domestic waste water		4
Basins and communal troughs; bath tubs and shower trays; bidets; Urinals; water closet bowls or pans; earth, chemical and composting closets; macerating toilets; squatting toilets; flushing cisterns; whirlpool baths; Shower and bath screens and enclosures	Personal hygiene	-----	4
Pre-formed toilet modules	Personal hygiene	-----	4
Modular public toilets, and prefabricated toilet pods	Personal hygiene	A1*, A2*, B*, C*	1
		----- A1**, A2**, B**, C**, D, E	3
		----- (A1 to E)***, F	4
<p>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 * Products/ materials for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification (e.g. an addition of fire retardants or a limiting of organic material) ** Products/ materials not covered by footnote (*). *** Products/ materials that do not require to be tested for reaction to fire (e.g. Products/materials of class A1 according to the Decision 96/603/EC, as amended).</p>			

² For reaction to fire, see Commission Decision 94/611/EC as amended by 2000/147/EC