



Revised following consultation at 52nd SCC meeting May 01

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 RESONSE 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)
<u>Components</u> <i>Fixed suppression and extinguishing</i> 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	Fire safety		1
System 1: See CPD Annex III.2.(i), without audit-testing of samples			