

# CE Marking of Fire Safety Systems

Ensure conformity of fire alarm and detection systems, smoke and heat control systems, ventilation, ducts and dampers



Safety measures against fire are critical in buildings to reduce any potential risks for people and goods in case of fire. It is quite complex to understand the behavior of the combination of elements involved in a fire.

Construction Products Regulation 305/2011 covers a wide range of products requiring flammability or fire resistance testing. Manufacturers or their representatives are solely responsible for ensuring their product comply with the Regulation provisions. Identifying its product with the CE mark is a manufacturer's statement of compliance with harmonized standards and that the essential requirements of the Regulation have been met.

CE marking of fire protection products is regulated by the Attestation of Conformity (AoC) under systems 1 or 3, which requires the intervention of a Notified Body to perform a Factory Production Control audit and type testing

## **Solution**

Applus+ is a Notified Body\* for CE marking and we work with producers throughout the entire CE marking process of their products. CE marking for fire protection products is based on AoC system 1 or 3 and standardized regulations:

## **Fire alarm and detection systems**

- EN 54-1: Fire detection and fire alarm systems Part 1: Introduction 1996
- EN 54-2:

1997      Fire detection and fire alarm systems - Part 2: Control and indicating  
EN 54-2:    equipment  
1997/AC:  
1999  
EN 54-2:  
1996/A1:  
2006  
EN 54-3:  
2001 and  
EN 54-3:  
2001/A1:    Fire detection and fire alarm systems - Part 3: Fire alarm devices - Sounders  
2002  
EN 54-3:  
2001/A2:  
2006  
EN 54-4:  
1997  
EN 54-4:  
1997/AC:  
1999  
EN 54-4:    Fire detection and fire alarm systems - Part 4: Power supply equipment  
1997/A1:  
2002  
EN 54-4:  
1997/A2:  
2006  
EN 54-5:  
2000  
EN 54-5:    Fire detection and fire alarm systems - Part 5: Heat detectors: Point  
2000/A1:    detectors  
2002  
EN 54-7:  
2000  
EN 54-7:  
2000/A1:    Smoke detectors: point detectors using scattered light, transmitted light or  
2002      ionization  
EN 54-7:  
2000/A2:  
2006  
EN 54-11:  
2001  
EN 54-11:    Fire detection and fire alarm systems - Part 11: Manual call points  
2001/A1:  
2005

EN 54-17:

2005

EN 54-17: Fire detection and fire alarm systems - Part 17: Short-circuit isolators

2005/AC:

2007

EN 54-18:

2005

EN 54-18: Fire detection and fire alarm systems - Part 18: Input/output devices

2005/AC:

2007

EN 54-24: Fire detection and fire alarm systems - Part 24: Components of voice alarm systems: Loudspeakers

2004

EN 12094-1:2003 Fixed firefighting systems - Components for gas extinguishing systems - Part 1: Requirements and test methods for electrical automatic control and delay devices

EN 14604:

2005

EN 14604: Smoke alarm devices

2005/AC:

2008

### **Smoke and heat control systems: Ventilation, ducts and dampers**

EN 12101-3:2002

EN 12101-3:2002 Smoke and heat control systems - Part 3: Specification for powered smoke and heat exhaust ventilators.

/AC:2005

EN 12101-1:2005

EN 12101-1:2005 Smoke and heat control systems - Part 1: Specification for smoke barriers

/A1:2006

EN 12101-7:2011 Smoke and heat control systems. Part 7: Smoke duct sections

EN 15650:2010 Ventilation for buildings - Fire dampers

CE marking defines a number of tasks to be fulfilled by the manufacturer and others by the notified body:

Manufacturer responsibilities:

- Implementation of Factory Production Control (FPC)
- Draw up a program of follow-up testing, specifying types, frequencies, etc.

Responsibilities of the notified body, as applicable:

- Type Testing (mandatory in systems 1 and 3)
- Initial Factory Production Control (FPC) inspection

- Continuous surveillance, assessment and approval of Factory Production Control (FPC)

#### CE Marking documents:

- Test Report (NB)
- Certificate of Constancy of Performance (NB in System 1)
- Declaration of Performance (Manufacturer)
- Labeling and CE marking (Manufacturer)

Applus+ has performed controls on construction products for over 100 years and has completed thousands of tests and product certifications.

*\* Applus+ is the commercial brand of LGAI Technological Center S.A., Notified Body nº 370.*

#### **Benefits**

- One stop shop for testing and the audit of Factory Production Control
- Improved control over your product and process, thus reducing costs due to low quality.
- Improved precision and homogeneity in the technical measurement values of your products clearly transmitted to your customers.
- Market your product throughout the European Union