

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 Fire detection and fire alarm systems - Part 17: Short-circuit isolators
EN 54-17:
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
2004 systems: Loudspeakers
EN 12094- Fixed firefighting systems - Components for gas extinguishing systems - Part
1:2003 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 Smoke and heat control systems - Part 3: Specification for powered
EN 12101-3:2002 smoke and heat exhaust ventilators.
/AC:2005
EN 12101-1:2005 Smoke and heat control systems - Part 1: Specification for smoke
EN 12101-1:2005 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 n° 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