



# **Elaboration of a harmonised European standard for CO detectors under the Construction Products Regulation (EU) 305/2011**

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# The Basic Mechanism

Regulation (EU) 305/2011 requires:

- elaboration of **harmonised European standards** after a request (**mandate**) from the Commission,
- all EU Member States implement the harmonised European standards by approximating their national regulations,
- CE marking is affixed by manufacturer on construction products in line with these harmonised ENs,
- use of the hEN by all actors (regulators, engineers producers, contractors) in a “common European technical language”

# The elaboration of harmonised European standards

Harmonised ENs contain:

the **essential performance characteristics** of the product (e.g. sensitivity, durability, etc ...)

the **tasks which the manufacturer and a notified body** have to undertake in order:

- to assess the performance of the product (before placing the product on the market), and
- to ensure that all the products produced in the factory will have the same performance as the product initially assessed.

# How to ensure that CO detectors are effective?

- **Detectors must work properly**
  - good harmonised EN addressing all necessary performance aspects (sensitivity, durability, end of life indic) (**COM/CEN**)
  - product certification by a 3<sup>rd</sup> party (**EU certification body**)
  - effective market surveillance (**MS**)
- **Detectors must be installed properly**
  - building regulations (**MS**)
  - installation instructions (**manufacturer**)
  - **installer**
- **Detectors must be maintained properly**
  - replacement of batteries (**owner/tenant/service man**)

## Background + Actual situation

- Existing EN 50291 allows product to be sold on the basis of product tests under the sole responsibility of manufacturer
- Frequent interventions of market surveillance authorities necessary to stop deficient products from the market (RAPEX)
- EP and certain MS alert COM on this situation
- In December 2012, COM requests CEN/CENELEC to elaborate a harmonised EN under existing mandate M/109 (fire safety)
- Essential product characteristics to be covered the hEN are **sensitivity, response time, operational reliability, supply voltage tolerance.**
- Applicable COM Decision 96/577/EC requesting CEN/CENELEC to implement **AVCP system 1 (product certification)** in the hEN
- COM has urged CEN to deliver

# AVCP systems: Who does what ?

T A S K S	S Y S T E M				
	1+	1	2+	3	4
<b>PRODUCER</b>					
<b>DECLARATION OF PERFORMANCE</b>	YES	YES	YES	YES	YES
Assessment of product performance			√		√
Factory production control (FPC)	√	√	√	√	√
Further testing of samples	√	√	√		
<b>EUNOTIFIED BODY</b>					
Assessment of product performance	√	√		√	
Initial Inspection of Factory + FPC	√	√	√		
Contin surv +assessmt + eval of FPC	√	√	√		
Audit testing of samples	√				

# CONTACTS

**Our website (DG ENTERPRISE, UNIT G-5):**

[http://ec.europa.eu/enterprise/sectors/construction/index\\_en.htm](http://ec.europa.eu/enterprise/sectors/construction/index_en.htm)

**Our e-mail:** [construction@ec.europa.eu](mailto:construction@ec.europa.eu)

**Public procurement:** [http://simap.europa.eu/index\\_en.html](http://simap.europa.eu/index_en.html)

**Official Journal of EU:** <http://eur-lex.europa.eu/en/index.htm>

**Notified Bodies:** <http://ec.europa.eu/enterprise/newapproach/nando/>

**CEN/CENELEC:** <http://www.cencenelec.eu>

**EOTA:** <http://www.eota.eu>

# Thank you for your attention