

# Construction Product Regulation



Kabelwerk

**EUPEN** AG

cable

# Construction Products Regulation (CPR)

## What is the CPR?

[Regulation EU No. 305/2011](#) (Construction Products Regulation, or CPR) of the European Parliament and of the European Council is a regulation of **9 March 2011** that lays down **harmonised conditions for the marketing of construction products and replaces Construction Products Directive** (89/106/EEC). The EU regulation is designed to simplify and clarify the existing framework for the placing on the market of construction products.

Provisions of the **EU Regulation** seek to:

- Clarify the affixing of **CE Marking** to construction products.
- Introduce the need to issue a **Declaration of Performance (DoP)** as a basis for CE marking.
- Define clear rules for the **Assessment and Verification of Constancy of Performance (AVCP)** Systems applicable to construction products (former Attestation of Conformity AoC).
- Define the **role and responsibilities** of manufacturers, distributors, importers, notified bodies, technical assessment bodies, market surveillance and Member States' authorities as regards the application of this EU regulation.
- Provide a **clear framework** for the **harmonised technical specifications** (Harmonised Standards and European Assessment Documents).

## What is the purpose of the CPR?

The Construction Products Regulation takes into account one of the **major concerns** of the European Authorities, that is to say, the **general safety of goods and persons and specifically the safety in case of fire**, by determining the performance criteria to be met by products.

## What is the impact on the cables?

In the frame of this regulation, the European Commission has published on the **10<sup>th</sup> of June 2016** the new Standard EN 50575:2014/A1:2016 concerning the **Reaction to Fire for Power, Control and Communications Cables intended to be used in permanent installation for general applications in construction works**. This standard specifies the essential requirements for performance, initial testing and monitoring and requires that the products should be accompanied by a **Declaration of Performance (DoP)** and that they bear the **CE Marking** and other additional information.

The standard EN 50575:2014/A1:2016 covers the **“Reaction to Fire”** but does **not relate** to the **“Fire Resistance”** of cables. The “Fire Resistance” will be subject to a specific standard that is still being edited and will be published later. Therefore the Fire Resistant Cables will only be concerned in a later stage by the CPR.

## What is the effective date of the new standard EN 50575:2014/A1:2016?

The new standard EN 50575:2014/A1:2016 has been in force since 10 June 2016 with a one year coexistence period. **From July 1st 2017, manufacturers and importers will only be allowed to place on the market cables meeting the new CPR regulations for the applications concerned by the CPR.**

## What are the requirements for cables?

Aware of the importance of the behavior and role of cables in the event of a fire, the European Commission decided to introduce a specific classification for them in terms of **Reaction to Fire**.

**This classification applies to all types of cables intended for use in permanent installations for general applications in construction works and relates only to their Reaction to Fire.**

It lists the cables in 7 "**Euro-Classes**" A<sub>ca</sub>, B1<sub>ca</sub>, B2<sub>ca</sub>, C<sub>ca</sub>, D<sub>ca</sub>, E<sub>ca</sub>, F<sub>ca</sub> as a function of their decreasing performance. Various parameters such as **heat release** and **flame propagation** are evaluated.

In addition to this main classification, the European Authorities have regulated and defined the use of **Additional Parameters** as "a" = acidity, "s" = smoke and "d" = droplets.

The performance of a product and therefore its belonging to one of the categories must be checked and certified by **independent notified bodies** working on the basis of **Harmonized European Standards**. This performance is confirmed by the manufacturer in a document called **Declaration of Performance (DoP)**, which must be drawn up before the CE marking is affixed to the product, the packaging or the official documents accompanying the product.

The table below gives a summary of the **Euro-Classes**, the **Additional Parameters**, the **Level of Security** and the **Assessment and Verification of Constancy of Performance (AVCP)** System and the **responsibilities** of the **Notified Bodies** and **Manufacturers** in terms of **reaction to fire type testing** and **production control**.

Euro-Classes	Additional Parameters	Level of Security	System of Attestation of Conformity
A <sub>ca</sub>		Extremely high (Incombustible)	«1+»,
B1 <sub>ca</sub>	- Smoke (s1, s1a, s1b, s2 & s3)	Very high	- initial type test and continued surveillance by a notified body.
B2 <sub>ca</sub>	- Droplets (d0, d1 & d2)		- control of production by the manufacturer.
C <sub>ca</sub>	- Acidity (a1, a2 & a3)	High	
D <sub>ca</sub>		Medium	«3», - initial type test by a notified body
E <sub>ca</sub>		Low	- production control by the manufacturer
F <sub>ca</sub>		No performance declared	«4», type test & control of production by the manufacturer

### What are the obligations of the manufacturers and importers?

- Manufacturers and importers must **ensure** that the **CE marking is affixed** to each concerned cable or its packaging or the documents accompanying the delivery
- They must also **make available** to the customers a document called **DoP "Declaration of Performance"** which attests the performance of the reaction to fire of each cable.
- From **1<sup>st</sup> July 2017**, they will only be allowed to place on the market products conforming to the new standard EN 50575:2014/A1:2016

### What about Kabelwerk EUPEN AG?

**Kabelwerk EUPEN AG** has adapted its cables and developed new ones in order to be in conformity with the new requirements of EN 50575:2014/A1:2016.

**Kabelwerk EUPEN AG** will mark the cables and the related documents according to the requirements of the standard EN 50575:2014/A1:2016 and will make available **DoP certificates**. These can be accessed via the "**DoP Finder**" on its website [www.eupen.com](http://www.eupen.com). See "DoP Finder" above and enter the **DoP number** of the respective cable.