

Fire safe buildings : the opportunity of renovation strategies

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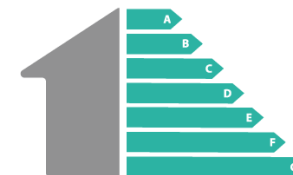
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Article 2a, §7

*Each Member State may use its long-term renovation strategy to address **fire safety** and risks related to intense seismic activity affecting energy efficiency renovations and the lifetime of buildings.*



Article 7 §5

*Member States [...] shall address the issues of healthy indoor climate conditions, **fire safety** and risks related to intense seismic activity.*

Our view

Fire safety must be considered for all buildings during design, construction, renovation and operations.

Like all safety aspects, this is covered by national building codes and a full range of other regulations.

The EPBD now highlights that the renovation of a building is also an opportunity to enhance fire safety.



Draft framework presented at the FIEP in June 29 and discussed with several stakeholders.
Suggested as a way to structure exchange of information between Member States.

**1. Regulation at Member State level,
adequate compliance and enforcement**

**2. Adequate European harmonized standards to
be used in Member States regulatory framework**

3. Holistic approach “BIO”

**3.1
Building**

**3.2
Installations**

**3.3
Organisation**

What should be considered in the regulatory approach?

1. Member State level regulation and enforcement

2. European harmonized standards

3. Holistic approach “BIO”

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- ✓ Enforcement of regulation
- ✓ Market surveillance

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How to test and declare performance

- ✓ For construction products
- ✓ For large scale façade testing
- ✓ For equipments
- ✓ ...

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Performance requirements adapted to building category

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Performance requirements adapted to building category

- ✓ **Limitation of fire/smoke spread...**
- ✓ **Large scale façade testing (system approach)**
- ✓ **Escape routes**
- ✓ **Compartmentation**
- ✓ **Fire safety engineering**
- ✓ **Fire fighting strategy**
- ✓ **...**

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Requirements adapted to building category

- ✓ Detection
- ✓ Suppression (sprinklers)
- ✓ Smoke control
- ✓ Fire fighting
- ✓ ...

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- ✓ **Construction process management and control**
- ✓ **Maintain fire safety design**
- ✓ **Regular fire safety checks**
- ✓ **Inspections of electrical/gas installations and equipments**
- ✓ **Roles & responsibilities**
- ✓ **Prevention, awareness, and education**
- ✓ **Fire fighting organization and equipment**
- ✓ **...**

The starting point : ensure quality and compliance of renovation works with the relevant building regulations and producers guidelines.



- ✓ Construction products are subject to stringent regulations to declare their performance. Application specific performance requirements are defined by the national building codes.
- ✓ System performance must be considered (e.g. large scale façade testing) rather than material properties alone.
- ✓ Organic products (wood, bio-based materials, plastics, composites...) are combustible but can be used safely in their intended building applications, as shown by thorough performance-based testing.

The opportunity : check essential elements for fire safety



- ✓ Inspection of electrical and gas installation and appliances;
- ✓ Smoke detection and alarms;
- ✓ Escape routes and compartmentation;
- ✓ Possibility sprinklers for taller buildings or vulnerable occupants.

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