

## QualiCheck workshop Voluntary and Regulatory Frameworks to improve Quality and Compliance

Summary of country presentations

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## QualiCheck project

Easy access to **compliant** EPC input **data**

Towards better **quality** of the works

Towards better **compliance** and  
effective penalties

**Solutions**

## Workshop objectives

- Increase confidence in declared ventilation and airtightness performance to show compliance with regulations:
  - how to improve the reliability of the input data used to issue Energy Performance certificates;
  - how to improve the quality of the works;
  - how to take into account innovations in a compliance framework.

## Overview of solutions

	Ventilation	Airtightness
Reliable EPC input data	<ul style="list-style-type: none"><li>• Regulated schemes</li><li>• Voluntary schemes</li><li>• Supporting documents</li></ul>	
Quality of the works		
Compliance framework		

In Sweden, Belgium, France

## Differences in context

- Sweden
  - Long tradition of checks of compliance with building regulations related to indoor climate
  - EPBD-regulations based on operational rating; compliance of subcriteria (airtightness) seems less of an issue
- Belgium
  - Solutions more recently developed to obtain better compliance with energy performance regulations
  - Reporting of EPC after the end of the works
- France
  - Long tradition of energy performance regulations (RT)
  - Solutions developed in voluntary labeling schemes to show high performance, before moving to regulated schemes

## Solutions in Sweden

	Ventilation	Airtightness
Reliable EPC input data	<ul style="list-style-type: none"> <li>• Checked by certified energy experts</li> </ul>	
Quality of the works	<ul style="list-style-type: none"> <li>• Compulsory ventilation checks (OVK since 1991), inc. inspection (3-6 y)</li> <li>• AMA HVAC specifications (1950's)</li> <li>• Certified ventilation installers (voluntary scheme 2014)</li> </ul>	<ul style="list-style-type: none"> <li>• AMA ductwork airtightness specifications (1950's)</li> <li>• Building airtightness tester (voluntary scheme 2014)</li> </ul>
Compliance framework	<ul style="list-style-type: none"> <li>• Certified OVK-inspectors</li> <li>• Municipalities may impose penalties to owner</li> </ul>	

## Solutions in Belgium

	Ventilation	Airtightness
Reliable EPC input data	<ul style="list-style-type: none"> <li>• Checked by EPB-rapporteur</li> <li>• EPB-product database (voluntary)</li> </ul>	<ul style="list-style-type: none"> <li>• Checked by EPB-rapporteur</li> <li>• Building airtightness test result in stead of conservative default value</li> </ul>
Quality of the works	<ul style="list-style-type: none"> <li>• Certified ventilation tester (voluntary, under development)</li> </ul>	<ul style="list-style-type: none"> <li>• Qualification of building airtightness testers (2015)</li> </ul>
Compliance framework	<ul style="list-style-type: none"> <li>• Registered EPB-rapporteur</li> <li>• Transparent fine-system imposed to owner</li> </ul>	<ul style="list-style-type: none"> <li>• Declaration of conformity by 3rd party</li> </ul>

## Solutions in France

	Ventilation	Airtightness
Reliable EPC input data	<ul style="list-style-type: none"> <li>• Homogeneous ventilation product characteristics</li> </ul>	<ul style="list-style-type: none"> <li>• Based on measured values</li> </ul>
Quality of the works	<ul style="list-style-type: none"> <li>• National random checks</li> <li>• Qualification of ventilation controllers (voluntary label)</li> </ul>	<ul style="list-style-type: none"> <li>• Qualification of airtightness testers</li> <li>• Certified QM approach for sample testing</li> </ul>
Compliance framework	<ul style="list-style-type: none"> <li>• Penalties in case of non-compliance</li> </ul>	<ul style="list-style-type: none"> <li>• Limiting airtightness requirements for residential buildings (2013)</li> <li>• Penalties in case of non-compliance</li> </ul>

## General elements of solutions

- Homogeneous product databases
  - Concerns: redundancy at international scale
- Testing as a means to improve quality of the works, reliability of input data and compliance
- Dedicated responsibilities for testing, controls and reporting
  - Personnel qualification/certification schemes
  - Importance of 3rd party control
- Systems of penalties in case of non-compliance
  - Not always very strict, sometimes room for negotiation



Thank you for your attention!  
Tack för uppmärksamheten!