

# Overview of international protocols for the inspection of ventilation systems

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INSPECTION OF VENTILATION SYSTEMS IN NEW REGULATIONS IN EUROPEAN COUNTRIES

## Number of protocols per country

### Data

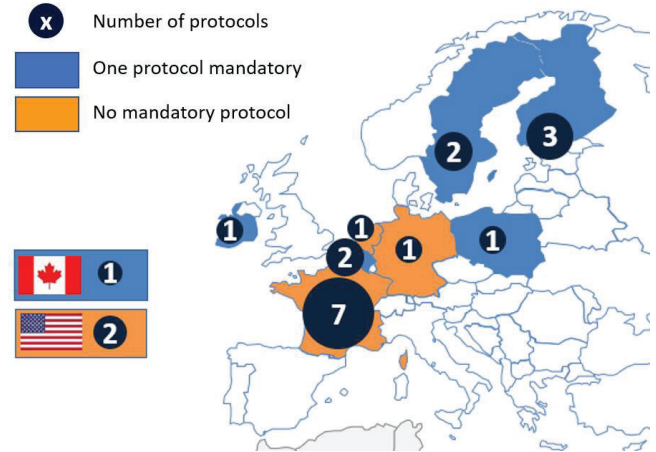
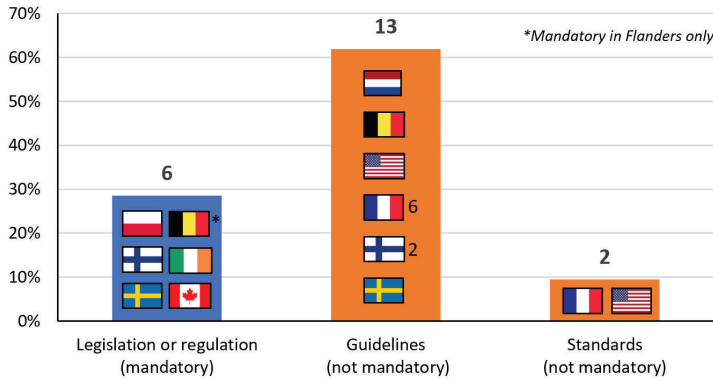
- **EPBD study** (Art. 19a) gathering and detailing **20 protocols** from **9 countries**
- **European project** (2018 – 2019) : **feasibility study** to identify the need, possibilities and timeline for a **possible introduction of inspection of stand-alone ventilation systems in buildings**
  - **Review of existing regulations, guidelines and standards**
  - **How to build an inspection scheme?**
  - **What could be other measures than inspection?**
  - **Impact analysis on 6 policy options**



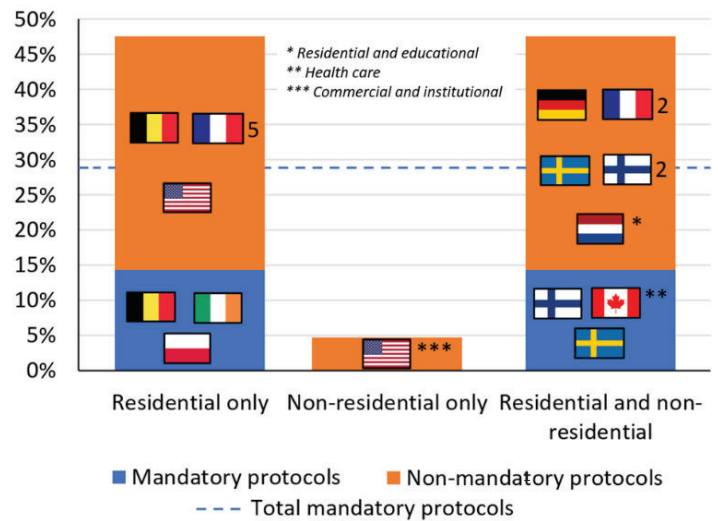
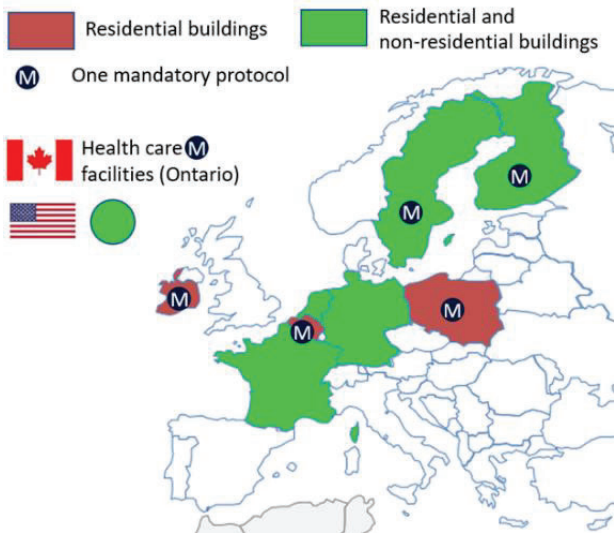
# Number of protocols per country

## Data

- **EPBD study** (Art. 19a) gathering and detailing **20 protocols** from **9 countries**
- **Additional reference:** [New guide](#) to comply with Irish regulation (Part F)

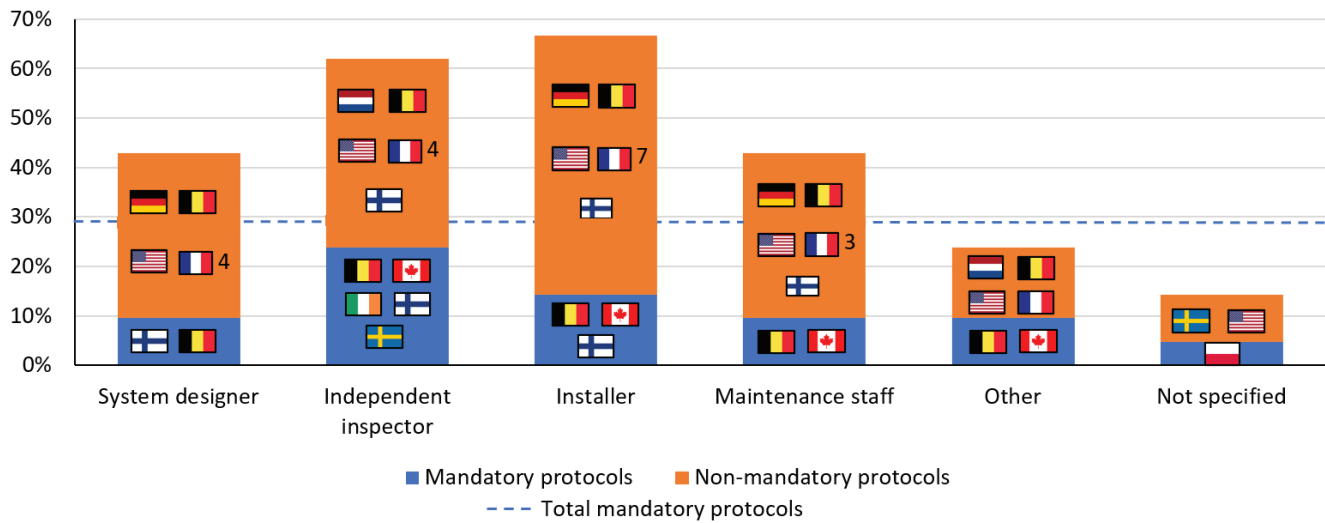


# Types of buildings controlled

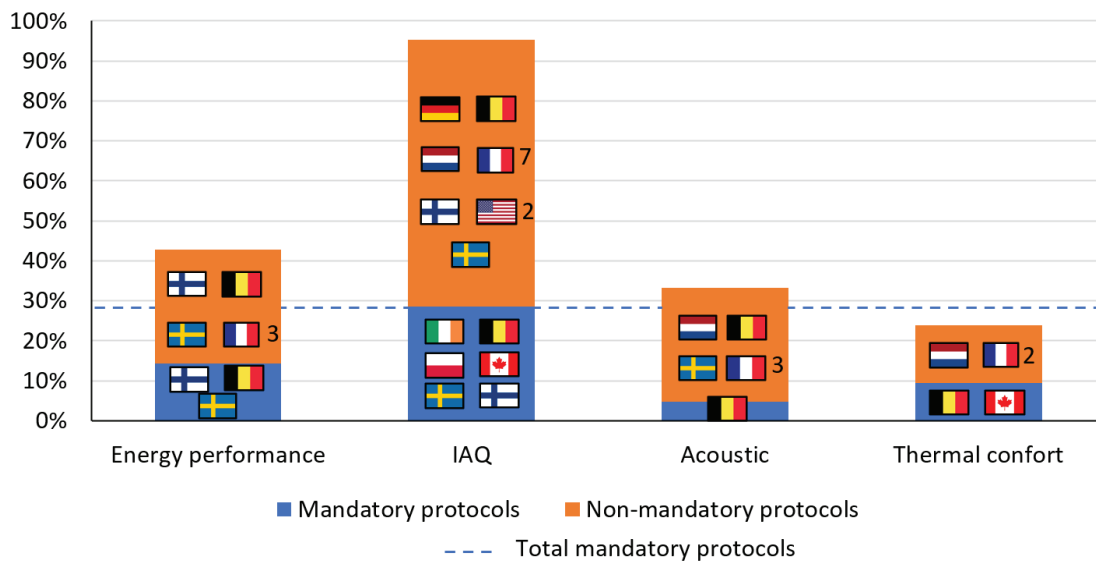


<sup>1</sup> 29% of protocols are mandatory, this line corresponds therefore to « 100% of mandatory protocols »

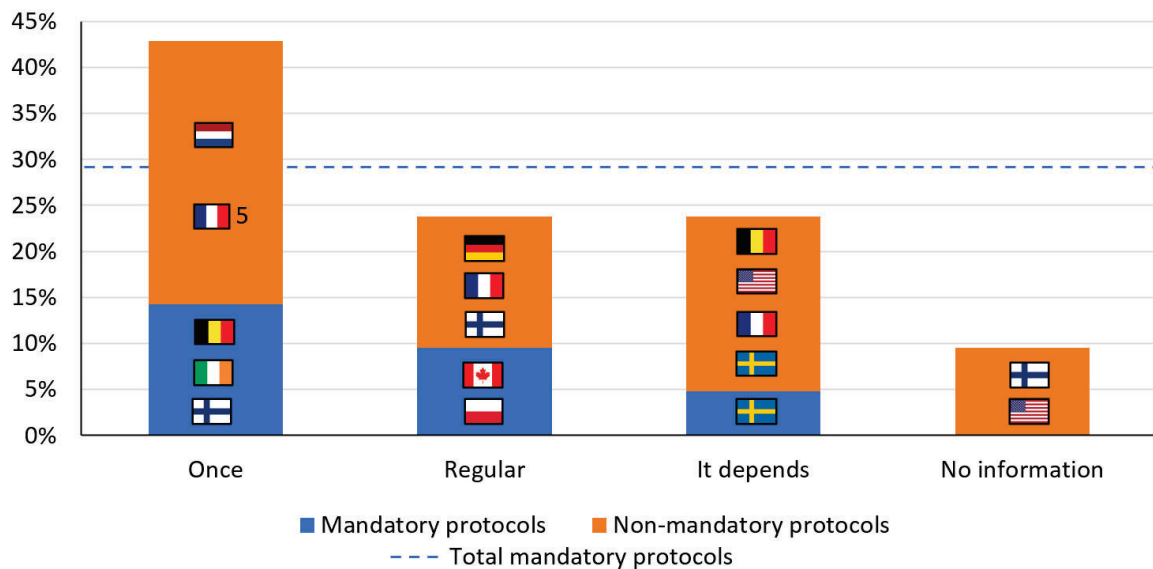
# Who is allowed to perform the inspection?



# Types of control



# Periodicity of inspection



# Technical Questions – survey on 5 protocols

Mandatory

Non-mandatory

## Who is in general doing the measurement?



: Independent inspector is also very common.  
 : No clear tendency (for the Effnergie Label: it has to be an independent inspector)

## How are non-conformities handled?



: Table of non-conformities with sanction is available. Some should be corrected, some not.  
 : All of the non-conformities should be mentioned  
 : The protocol does not cover the consequences of not meeting target flows.

## What if an air inlet is missing?



# Technical Questions – survey on 5 protocols

Mandatory   
Non-mandatory 

## For a dwelling to be conform:




Every ATD shall be conform  The total flowrate shall be conform 

## For a non-residential building to be conform:

Every room shall be conform  Not applicable 

## Are there measuring tolerances ?

Yes  No  Not applicable 

-  :  $\pm 10\%$
-  : 15% for the flowrate, 10% or 5 Pa for the pressure.
-  : Measuring accuracy according to SS-EN 16211

# Thank you

to **BCCA & INIVE** for founding this study

and to the **survey respondents:**

Iain Walker, Marteen De Strycker, Simon Jones,  
Olof Nevenius & Ariane Lesage