

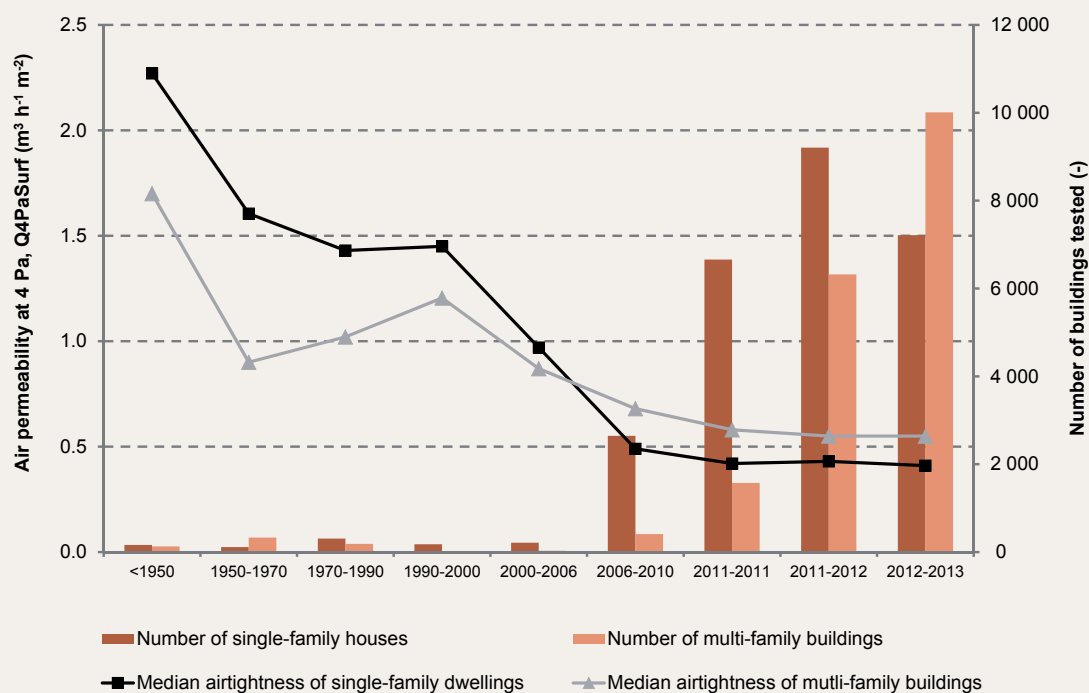
Air Infiltration and Ventilation Centre

ANNEX 5

The primary objective of the Air Infiltration and Ventilation Centre (AIVC) is to provide reliable reference information on research and development in the fields of air infiltration and ventilation, which are key aspects to achieve healthy and comfortable nearly zero energy buildings. This EBC information centre was inaugurated in 1979 and from then onwards has produced a number of landmark reports and guides, in addition to organising events such as the annual AIVC conferences, thematic workshops and webinars. Since 2011, AIVC activities have been structured around 'projects', integrating activities and products such as webinars, workshops, position papers, technical papers, and so on. The full AIVC project list is available at the website.

In relation to airtightness and ventilative cooling, the AIVC has joined forces with two other information platforms, TightVent and venticool. TightVent is focusing on airtightness of buildings and ductwork and was launched in January 2011. Venticool is focusing on ventilative cooling and was launched in September 2012. The main goals of TightVent and venticool are to:

- raise awareness of airtightness and ventilative cooling issues respectively, which are relevant concerns for a wide range of buildings and may even be critical in nearly zero energy buildings, and
- provide appropriate support tools and knowledge transfer to ease market transformation.



Evolution of air permeability of French residential buildings and the number of buildings tested from before 1950 until 2013.

Source: '6 years of envelope airtightness measurements performed by French certified operators: analyses of about 65 000 tests', A. Bailly, G. Guyot and V. Leprince, 36th Annual AIVC Conference Proceedings, 2015

PROGRESS

In 2015, AIVC focussed on two projects, a workshop on quality and compliance issues, the 36th AIVC Annual Conference and support to and dissemination for EBC Annex 62, 'Ventilative Cooling' and EBC Annex 68, 'Indoor Air Quality Design and Control in Low Energy Residential Buildings'.

The first AIVC project, 'Competent tester schemes for building airtightness testing' is being run in collaboration with TightVent. This has produced several papers that have been presented both at the AIVC workshop and conference held in 2015 with particular attention to data collection and analysis in these schemes. The outcomes from the second AIVC project 'Residential Ventilation and Health' have been reported in a book on residential ventilation and health. This book was peer reviewed, and with the support of the Indoor Environmental Quality Alliance, is planned to be published as an AIVC Technical Note in 2016.

In 2015, the 36th AIVC Annual Conference was held in Madrid, Spain. This has once again provided an opportunity for about 160 researchers and practitioners from around the world to exchange ideas and to present their latest findings, including in the field of policy and standard development. The AIVC supported EBC Annexes 62 and 68 by holding specific sessions during this conference, enabling these projects' participants to discuss their approaches and findings with a wider audience. The AIVC also contributed to the organization of two webinars on ventilative cooling.

Website

The search engine for the AIRBASE bibliographic database now contains nearly 22000 references and 15000 full documents (PDFs), which is an increase of more than 5000 documents compared with 2014.

NEW PRODUCTS

AIVC Conference Proceedings

36th Annual Conference, 'Effective ventilation in high performance buildings', held on 23rd - 24th September 2015, in Madrid, Spain

AIVC Newsletter

- March 2015
- September 2015

OTHER EVENTS

'Voluntary and Regulatory Frameworks to Improve Quality and Compliance of Ventilation and Airtightness', workshop held in March 2015, in Lund, Sweden (co-organised with QUALICheck, TightVent and venticool)
'Ventilative cooling potential and compliance in Energy Performance regulations', a webinar series with status and perspectives from various countries (in cooperation with EBC Annex 62, venticool, and QUALICheck), held in December 2015

Project duration

1979–present

Operating Agent

Peter Wouters, INIVE eeig, Belgium

Participating countries

Belgium, Czech Republic, Denmark, France, Germany, Italy, Japan, R. Korea, the Netherlands, New Zealand, Norway, Spain, Sweden, UK, USA
Observers: Greece, Finland, Poland

Further information and reports

www.iea-ebc.org
www.aivc.org

