

## Air Infiltration & Ventilation Centre AIVC

### ANNEX 5

The primary objective of the EBC information centre, 'Air Infiltration and Ventilation Centre (AIVC)', is to be the international centre on research and development in the fields of air infiltration and ventilation. Thus, the specific objective is to provide a high quality international technical and information forum covering the areas of ventilation and air infiltration in the built environment with respect to efficient energy use, good indoor air quality and thermal comfort. The mission of AIVC is to be the reference portal for information on ventilation in buildings to improve the wellbeing of people through development and dissemination of ventilation knowledge.

Since the beginning of 2011, the AIVC has been operating with a new approach, which is approved for the period through to 2013. A key ambition of the new AIVC is to convene integrated and combined activities (called 'projects'), resulting in different information tools, for example webinars, workshops, position papers, technical papers, and so on. These are supported by a review process and result in an increased information dissemination impact. The projects identified are:

- Development and applications of air leakage databases
- Philosophy and approaches for airtightness requirements
- How tight and insulated ducts should be
- Testing, reporting and quality schemes for building airtightness
- Durability of building airtightness
- Improving the quality of residential ventilation systems
- Ventilative cooling – Use of natural or mechanical ventilation strategies to cool indoor spaces
- Ventilation and health

For projects and events in relation to airtightness and ventilative cooling, AIVC is joining forces with the two information platforms TightVent Europe 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. TightVent Europe's and venticool's main goals are to:

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

In 2012, the 33rd AIVC Annual Conference has once again provided an opportunity for over 160 researchers and practitioners from around the world to exchange ideas and to present their latest findings. The theme for the conference was 'Optimising Ventilative Cooling and Airtightness for [Nearly] Zero-Energy Buildings, Indoor Air Quality (IAQ) and Comfort'. The very positive evaluation of the event by participants – 72% rated the conference as meeting their expectations very well or extremely well – shows the quality of the programme and organization.

Given the converging interests of AIVC, TightVent Europe and venticool, the AIVC Board and the Steering Committees of both platforms have agreed to collaborate among other things on:

- the organization of the 2013 conference, which will be held in Athens on the theme of 'Energy conservation technologies for mitigation and adaptation in the built environment: the role of ventilation strategies and smart materials'
- the joint management of five of the projects mentioned above.

## NEW PRODUCTS

### Technical Notes

Technical Note 66: 'Building air leakage databases in energy conservation policies: analysis of selected initiatives in 4 European countries and the USA'

Technical Note 67: 'Building airtightness: a critical review of testing, reporting and quality schemes in 10 countries'

### AIVC Conference Proceedings

33rd Annual Conference, 'Optimising Ventilative Cooling and Airtightness for [Nearly] Zero-Energy Buildings, IAQ and Comfort', held on 10th–11th October 2012, Copenhagen, Denmark.

### Contributed reports

Contributed report 14: 'Methods and techniques for airtight buildings'

Contributed report 15: 'Development and evaluation of a new test method for portable air cleaners'

### AIVC Newsletter

July 2012

## WEBINARS

- 'The need for structured air leakage databases in energy conservation in buildings policies', held 25th May 2012.
- 'Demand-Controlled Ventilation in the European context: approaches in 4 countries and at EU level', held 26th November 2012. This attracted around 150 participants.

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### Project duration

1979–present

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### Operating Agent

Peter Wouters, INIVE eeig, Belgium

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### Participating countries

Belgium, Czech Republic, Denmark, France, Germany, Greece, Italy, Japan, Republic of Korea, The Netherlands, New Zealand, Norway, Portugal, Sweden, USA

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### Further information and reports

[www.iea-ebc.org](http://www.iea-ebc.org)

[www.aivc.org](http://www.aivc.org)

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