

Air Infiltration and Ventilation Centre

Ventilation and air infiltration into buildings represent a substantial energy demand which can account for between 25% and 50%+ of a building's total space heating (or cooling) needs. Unnecessary or excessive air change can therefore have an important impact on global energy use. In addition insufficient ventilation may result in poor indoor air quality and consequential health problems.

Designing for optimum ventilation performance is therefore a vital part of building design. This task is made especially difficult, however, by the complexities of airflow behaviour, climatic influences, occupancy patterns and pollutant emission characteristics.

The AIVC was established in 1979 and aims to offer industry and research organisations technical support to optimise ventilation technology. A range of services and facilities are offered, including a comprehensive database of literature, standards and ventilation data.

The project also produces a series of guides and technical notes. An annual conference is held, together with a technical workshop. Up-to-date news is published in a quarterly newsletter, 'Air Information Review' with an accompanying CD. A dynamic website provides the publications in electronic format for download, together with subscription information. (Access is free of charge for researchers in Belgium, France, Germany, Greece, Netherlands, Norway and USA.)

Latest Products

Recent publications include:-

- A new 'Ventilation Information Paper' (VIP) entitled 'Report of the 2nd European Blower Door Symposium 2007'
- A new 'Ventilation Information Paper' (VIP) entitled 'Air Quality in Passenger Aircraft'
- National 'VIPs' available on 'Trends in National Building Ventilation Markets and Drivers for Change' for Belgium, England, France, Finland, Norway, US, Brazil, Poland, Japan and Korea
- A new Technical Note: 'Energy and Indoor Environmental Quality of Low Income Households'
- A new Technical Note: 'Natural and Hybrid Ventilation in the Urban Environment'
- A new Literature List: 'Overview of Reports from the EU-RESHYVENT Project on Residential Hybrid Ventilation'
- A new 'Contributed Report' entitled 'Air Leakage of US Homes: Model Prediction'
- A new 'Contributed Report' entitled 'Ventilation Behaviour and Household Characteristics in

New California Houses'.

The proceedings of the annual AIVC conference are available to order. Recent conferences were entitled 'Building Low Energy Cooling and Advanced Ventilation Technologies in the 21st Century' (2007 - Crete) and 'Advanced Building Ventilation and Environmental Technology for Addressing Climate Change Issues' (2008 - Kyoto)

Access is also provided to many external publications such as technical reports, conference proceedings and newsletters from various agencies concerned with aspects of ventilation such as European Collaborative Action on Urban Air, Indoor Environment and Human Exposure; Lawrence Berkeley National Laboratory; IBSPA; IAQVEC; PALENC; CLIMA and many others.

The Operating Agent is Peter Wouters of INIVE eeg and the Belgian Building Research Institute.

Participating Countries are: Belgium, Czech Republic, France, Greece, Japan, Netherlands, Norway, Republic of Korea, and USA



Quarterly newsletter 'Air Information Review'



Leading participants



The AIVC Website