

Better Quantifying and Locating Building Leakages

Monday November 30th, 2020

10:30-11:45 (Brussels, BE)

9:30-10:45 (London, UK)

11:30-12:45 (Athens, GR)

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Registration is required: A link to join the webinar will be included in the email confirmation

Air infiltration in buildings has multiple consequences on energy use and indoor environmental quality which depend on the location and distribution of leakages. Among others, pollutant infiltration and air draft are highly affected by leakage distribution. In current practice, leakage detection is frequently performed together with an airtightness test. Leakage detection methods allow to identify the locations of the leakages, but in most cases do not allow to quantify the amount of leakage corresponding to each identified leakage. This stresses the need for methods quantifying leakages through individual building components. In addition, such methods would help contractors to assess the quality of on-site execution, known to have a major impact on building airtightness.

The objective of this webinar is to discuss existing methods to measure the airtightness of individual buildings components.

This webinar is organised with the support of TightVent Europe (www.tightvent.eu) and the Air Infiltration and Ventilation Centre (www.aivc.org). Both initiatives are facilitated by INIVE (www.inive.org).

Programme (Brussels time)

-  10:30 | Building component performances as an answer for airtightness issues –existing quantification methods, **Martin Prignon, UCLouvain, Belgium**
-  10:40 | Uncertainty of effective leakage areas determination through reductive sealing technique, **Vitor Cardoso, FEUP, Portugal**
-  10:55 | Questions and answers
-  11:00 | Bias and precision errors in the measurement of building component airtightness with direct component test, **Martin Prignon, UCLouvain, Belgium**
-  11:15 | Questions and answers
-  11:20 | Comparison of airflow and acoustic measurements for evaluation of building air leakage paths in a laboratory test apparatus, **Benedikt Kölsch, DLR, Germany**
-  11:35 | Questions and answers
-  11:45 | End of webinar

Cost and registration

Participation to the webinar is free but requires you to register for the event. The webinar will be limited to a maximum of 500 persons. To register, please click on the “Register now” button above or visit inive.webex.com.

What is a webinar?

A webinar is a conference broadcasted on internet. To follow a webinar you must have a computer with a sound card and speakers or headphones. Once logged in the "conference room", you will be able to see the slides of the presentation and to hear the panellists' comments. You will also be able to ask written questions to the speakers, and to answer on-line surveys.

Hardware, software

Our webinars are powered by WebEx Event Center. The only thing you need is a computer with a sound card and speakers. Before you can log in the "conference room", WebEx will install the required application. If you are not a WebEx user, please visit www.webex.com/login/join-meeting-tips to check the system requirements and join a test meeting. Please also join the event at least 15 minutes in advance.

About TightVent

TightVent Europe (www.tightvent.eu) aims at facilitating exchanges and progress on building and ductwork airtightness issues, including the organisation of conferences and workshops. It fosters experience sharing as well as knowledge production and dissemination on practical issues such as specifications, design, execution, control, etc., taking advantage of the lessons learnt from pioneering work while keeping in mind the need for adequate ventilation. TightVent Europe has been initiated by INIVE EEIG (International Network for Information on Ventilation and Energy Performance) with at present the financial and/or technical support of the following partners: Buildings Performance Institute Europe, BlowerDoor GmbH, Eurima, Gonal Industrias, Lindab, Mez-Technik, Retrotec, SIGA, and Soudal.

About AIVC

Created in 1979, the Air Infiltration and Ventilation Centre (www.aivc.org) is one of the projects/annexes running under the International Energy Agency's Energy in Buildings and Communities (IEA-EBC) Programme. With the support of its member countries as well as key experts and two associations (REHVA, IBPSA, ISIAQ), the AIVC offers industry and research organisations technical support aimed at better understanding the ventilation challenges and optimising energy efficient ventilation.

The AIVC activities are supported by the following countries: Australia, Belgium, China, Denmark, France, Greece, Italy, Ireland, Japan, Netherlands, New Zealand, Norway, Republic of Korea, Spain, Sweden, UK and USA.

About INIVE

INIVE EEIG (International Network for Information on Ventilation and Energy Performance) was created in 2001 as a so-called European Economic Interest Grouping. The main reason for founding INIVE was to set up a worldwide acting network of excellence in knowledge gathering and dissemination. At present, INIVE has 8 member organisations (BBRI, CETIAT, CSTB, eERG, IBP-Fraunhofer, NKUA, SINTEF, and TNO) (www.inive.org)

INIVE is coordinating and/or facilitating various international projects, e.g. AIVC (www.aivc.org), TightVent Europe (www.tightvent.eu), venticool and Dynastee (www.dynastee.info). INIVE has also coordinated the ASIEPI project dealing with the evaluation of the implementation and impact of the EU Energy Performance of Buildings Directive, the QUALICHeCK project aiming towards improved compliance and quality of the works for better performing buildings, BUILD UP the European portal on Energy Efficiency and the EPBD feasibility study 19a (<https://www.epbd19a.eu/>).