Alternative methodologies to evaluate airtightness

Monday 19th June 2023

10:00-11:30 (Brussels, BE)

9:00-10:30 (London, UK)

11:00-12:30 (Athens, GR)

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A pressurization test with a blower door fan is the most widely accepted and used method to evaluate the airtightness of a building, but it presents some drawbacks. Alternative methodologies have been, or are being, developed and three of them are presented in this webinar:

1. The Low Pressure Pulse technique (LPP), which is a dynamic measurement of building air leakage at a low pressure differential (4Pa). It is based on the release of a "pulse" of air and the measurement of the decay in building pressure over a few seconds.
2. The Air Tightness Tester (ATT) that uses the ventilation system in the house. By switching it on and off, the airtightness can be calculated from the measured changes of pressure and the volume flow rate.
3. A method that is under development combines IR and acoustic approaches to locate air leakage paths.

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

Programme (Brussels time)

10:00	**INTRODUCTION TO ALTERNATIVE METHODOLOGIES USED TO EVALUATE AIRTIGHTNESS** Benjamin Jones (University of Nottingham, UK)	10:45	**Questions and answers**
10:05	**THE PULSE TECHNIQUE** Christopher Wood (University of Nottingham, UK) & Luke Smith (Build Test Solutions, UK)	10:55	**NOVEL IR AND ACOUSTIC METHODS** Benedikt Kölsch (Cerema/DLR, France)
10:20	**Questions and answers**	11:10	**Questions and answers**
10:30	**THE AIR TIGHTNESS TESTER (ATT)** Niek-Jan Bink (ACIN, The Netherlands)	11:30	**End of the 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 1000 persons. To register, please click on the “Register now” button above.

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 "webinar 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

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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 (International Network for Information on Ventilation and Energy Performance) with at present the financial and/or technical support of the following partners: Lindab, MEZ-TECHNIK, Retrotec, Acin Instrumenten, BCCA, BlowerDoor GmbH, dooApp, Soudal, Eurima, Gonal, SIGA and BPIE.

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 (International Network for Information on Ventilation and Energy Performance) was created in 2001. 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 as member organisations Buildwise, CETIAT, Ghent University, IBP-Fraunhofer, KU Leuven.
INIVE is coordinating and/or facilitating various international projects, e.g. AIVC (www.aivc.org), TightVent Europe (www.tightvent.eu), venticool (https://venticool.eu/) 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 feasiblity study 19a.