Impact of wind on airtightness test results

Monday November 8th, 2021

15:30-16:45 (Brussels, BE)

14:30-15:45 (London, UK)

16:30-17:45 (Athens, GR)

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Building airtightness tests have become very common in many countries, either to comply with minimum requirements of regulations or programmes, or to justify input values in calculation methods. Thus, it has become very important to understand and quantify the reliability of these tests. According to the present ISO 9972 standard, the zero-flow pressure shall not exceed 5 Pa for the test to be valid. On one hand, in moderately windy conditions it may be impossible to perform a pressurisation test in accordance with the standard, even if an uncertainty analysis would show small test errors. On the other hand, the complexity of the impact of wind during a test, might lead to situations during which the 5 Pa requirements will be met, but the wind will induce an important error on the result. In addition, wind fluctuations during the tests create an additional uncertainty on the measurement result.

This webinar aims at presenting the Ventilation Information Paper on the impact of wind on airtightness test results published by the AIVC and at presenting results of field measurements to better estimate and reduce the impact of wind fluctuations on airtightness test results.

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)

- 15:30 | AIVC's Ventilation Information Paper on the impact of wind on the airtightness test results, **Valérie Leprince (INIVE, France)**
- 15:45 | Questions and answers
- 15:50 | Field evaluation of techniques to reduce wind pressure fluctuations, Gary Nelson **(Energy Conservatory, United States)**
- 16:05 | Questions and answers
- 16:10 | In-situ investigation of the impact of dynamic wind on fan pressurization method, **Dimitrios Kraniotis (OsloMet, Norway)**
- 16:25 | Questions and answers
- 16:45 | 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 1000 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

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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 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 (**I**nternational **N**etwork for **I**nformation on **V**entilation and **E**nergy **P**erformance) 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 feasiblity study 19a (https://www.epbd19a.eu/).