

Building and ductwork airtightness trends and regulations in China, Japan and New Zealand

Friday 13 December 2024

09:00-10:30 (Brussels, BE)

16:00-17:30 (Beijing, CN)

17:00-18:30 (Tokyo, JP)

21:00-22:30 (Wellington, NZ)

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A series of Ventilation Information Papers (VIPs) is being developed and published by the AIVC to present national trends and regulations on building and ductwork airtightness. This webinar will explore the building and ductwork airtightness practices in three countries: China, New Zealand, and Japan. Each nation represents a unique regulatory and construction environment, shaped by distinct climate conditions, national policies, and building practices.

In China, building airtightness standards have gradually been developed, but ductwork airtightness is only marginally addressed, with few incentives for testing or regulation enforcement. However, as the country increases its focus on energy efficiency, there is growing recognition of the need to control duct leakage due to its impact on IAQ and energy use.

New Zealand has no national airtightness requirement but encourages airtight construction through voluntary programs and research-backed recommendations. Although building airtightness has improved, reaching an average of 4.6 ach@50Pa, ductwork airtightness remains unregulated. The country's focus is on improving building durability and energy efficiency while managing risks related to its humid climate.

Japan has advanced airtightness standards, particularly for residential buildings, with local governments offering subsidies for airtight construction. However, ductwork airtightness remains largely overlooked, reflecting limited national interest in regulating duct leakage.

This webinar will provide a comparative overview of these countries' approaches to airtightness, exploring the drivers and challenges in each setting. Join us to gain insights into airtightness practices worldwide and the evolving impact on building energy performance and IAQ.

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)

- ❖ 09:00 | Introduction: Presentation of the series of AIVC VIPs on building and ductwork airtightness regulations, *Valérie Leprince (Cerema, France)*
- ❖ 09:05 | Building and ductwork airtightness in China: National trends and requirements, *Yan Hu (Hunan University, China)*
- ❖ 09:20 | Questions and answers
- ❖ 09:30 | Building and ductwork airtightness in Japan: National trends and requirements, *Yoshihiro Toriumi (Tokyo Denki University, Japan)*
- ❖ 09:45 | Questions and answers
- ❖ 09:55 | Building and ductwork airtightness in New Zealand: National trends and requirements, *Steve McNeil (BRANZ, New Zealand)*
- ❖ 10:10 | Questions and answers
- ❖ 10:30 | 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, Build Test Solutions, Eurima, Gonal, SIGA and BPIE.

About AIVC

Created in 1979, the Air Infiltration and Ventilation Centre 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 various associations (REHVA, IBPSA, ISIAQ), the AIVC offers industry and research organisations technical support aimed at better understanding the ventilation challenges and optimizing energy efficient ventilation.

The AIVC activities are supported by the following countries: Australia, Belgium, China, Denmark, France, 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 organizations Buildwise, Cerema, 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 feasibility study 19a.