

## Foreword

Interest in the field of building and ductwork airtightness is becoming larger in Europe and beyond. Following its launch in 2011, TightVent Europe is expanding with new partners and a growing network of the TightVent Airtightness Associations Committee (TAAC).

Please visit our website, follow us on [twitter](#) and [Linked In](#) and [subscribe](#) to our monthly newspaper "Energy Efficiency and Indoor Climate in Buildings" to know more about our activities.

We wish you a pleasant reading and look forward to seeing you in our future events:

- 18-19 September, 2018: 39<sup>th</sup> AIVC –7<sup>th</sup> TightVent-5<sup>th</sup> venticool joint conference "Smart ventilation for buildings", Juan-les-Pins, France
- 25 June, 2018: 1<sup>st</sup> European conference "BIM and energy performance of buildings", Brussels, Belgium.

The TightVent team



## News from the TightVent Airtightness Associations Committee-TAAC

*Valérie Leprince, INIVE, France*

The TightVent Airtightness Associations Committee (TAAC) has met 25 times since the committee's launch in September 2012. The TAAC working group includes formal or informal groups of airtightness testers from several countries as well as TightVent gold and diamond partners. 13 European countries are currently represented in the working group.

The objectives of the working group are to:

- gather stakeholders from as many countries as possible;
- facilitate exchange between countries;
- share experience and knowledge;
- compare approaches.

In 2017, TAAC performed a comparison of building and ductwork airtightness requirements in Europe through a questionnaire sent to all TAAC participants. The results showed how awareness on building airtightness has grown in the last 5 years in Europe, as opposed to ductwork airtightness which is not taken into account in most European countries. Results of this study have

been published and presented during the AIVC conference in Nottingham

(<https://www.aivc.org/resource/building-and-ductwork-airtightness-requirements-europe-comparison-10-european-countries>).

The agenda of the last TAAC meetings included:

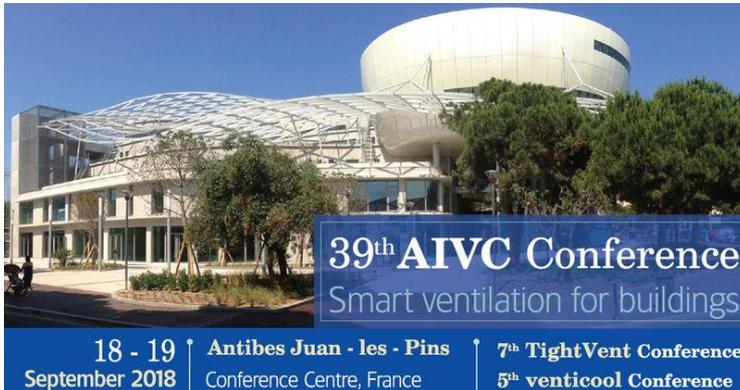
- presentations of research projects, e.g. studies performed on the durability of airtightness;
- presentations of new measurement devices, e.g. the pulse technique (presented by Xiaofeng Zheng from the University of Nottingham);
- the share of experience regarding tests in unusual buildings, e.g. during last TAAC meeting presentations were made by Retrotec and Blowerdoor GmbH on devices and advice for testing very tight and/or very small buildings.

The next TAAC meeting will focus on ductwork airtightness. A presentation of the Aeroseal Technologie by MEZ-TECHNIK and the context in France and the UK is foreseen.

In case you are interested to obtain further information and/or join us, please write an email to [info@tightvent.eu](mailto:info@tightvent.eu).

### In this issue

- Foreword
- News from the TightVent Airtightness Associations Committee-TAAC
- Register now for the 39<sup>th</sup> AIVC & 7<sup>th</sup> TightVent conference, 18 -19 September 2018, Juan-les-Pins, France
- Recordings from the TightVent webinar on ductwork airtightness
- TightVent welcomes MEZ-TECHNIK and SIGA as new members
- 25 June, 2018, 1<sup>st</sup> European conference "BIM and energy performance of buildings"
- AIVC Workshop on airtightness & ventilation-Presentations available
- NEWSPAPER: "Energy Efficiency and Indoor Climate in Buildings"
- Product news from our partners



## Register now for the 39<sup>th</sup> AIVC & 7<sup>th</sup> TightVent conference, 18 -19 September 2018, Juan-les-Pins, France

149 abstracts from 26 countries have been accepted for presentation at the 39<sup>th</sup> AIVC- 7<sup>th</sup> TightVent & 5<sup>th</sup> venticool conference "Smart ventilation for buildings" to be held on 18 and 19 September 2018 in Juan-les-Pins, France. The conference will place its focus on:

- Smart ventilation, Indoor Air Quality (IAQ) and health relationships
- Ventilation and Airtightness
- Ventilative cooling – Resilient cooling

It will consist of a mixture of well prepared and structured sessions focused on the conference topics, presentations on invitation and presentations arising from the call for papers.

Specific topics of interest on ventilation and (building) airtightness include:

- Energy rating of ventilation product and systems
- Innovative ventilation concepts and combined systems
- Fan energy demand
- Heat recovery issues (freezing, natural ventilation)
- Risks related to building airtightness

- Durability of building and ductwork airtightness
- Energy and IAQ impact of envelope and ductwork leakage
- Field data and case studies
- Infiltration measurement techniques and IR thermography
- Compliance schemes and barriers to innovation
- Ventilation in renovated buildings

Confirmed **topical sessions** include:

- Rationale behind ventilation requirements and regulations
- Integrating uncertainties due to wind and stack effect in declared airtightness results
- Ductwork airtightness: Ongoing work in some European countries
- Sensors for smart ventilation
- Smart ventilation control strategies
- Performance of heat recovery ventilation systems in practice
- Residential cooker hoods
- IAQ metrics
- French initiatives for indoor air quality
- Demand controlled ventilation in French buildings – 35 years of wide scale experience
- Commissioning of ventilation systems Improving quality of installed ventilation systems
- Measurement accuracy of air flow and pressure difference
- Air cleaning as supplement for ventilation
- New annex on resilient cooling
- BIM and Construction 4.0 opportunities in relation to ventilation and airtightness

Confirmed **keynote speakers**:

- Nicolas Doré, French Environment and Energy Management Agency (ADEME)
- Jarek Kurnitski, REHVA Vice-president – Chair of the Technology and Research Committee
- Philippe Moseley, Executive Agency for Small and Medium-sized Enterprises
- Bjarne Olesen, ASHRAE president – Technical University of Denmark.

Selected papers will be invited for submission to special issues of the 'International Journal of Ventilation' and the REHVA journal.

The conference is organised by:

- CETIAT, the French technical centre for the heating, ventilation and air conditioning industries
- ADEME, the French environment and energy management agency
- INIVE, the International Network on Ventilation and Energy Performance on behalf of the Air Infiltration and Ventilation Centre (AIVC), TightVent Europe (the Building and Ductwork Airtightness Platform), and venticool (the international platform for ventilative cooling).

For more information and to register, please visit:

<http://www.aivc2018conference.org>

Early bird registration ends **30 June, 2018**.

## Recordings from the TightVent webinar on ductwork airtightness

The recordings and the slides of our recent webinar: "Ductwork airtightness: Standardisation's on-going work and an overview of status and trends in Sweden, Japan, Spain and Portugal" organised in cooperation with TightVent Europe and the Air Infiltration and Ventilation Centre, are now available online at: <http://tightvent.eu/events/webinars>. Check them out!

## TightVent welcomes MEZ-TECHNIK and SIGA as new members



**MEZ-TECHNIK** is a worldwide operating family business known for a wide range of innovative solutions and services for high end commercial air duct systems. We work together with consultants, air duct manufacturers, installers, duct cleaners and energy efficiency companies. MEZ offers manufacturing products, installation materials, chemical products, software solutions and air duct cleaning equipment to the market. Since the revolutionary invention of the MEZ-FLANGE-SYSTEM to connect rectangular ductwork by a flange system, we constantly push and change the market and its methods of manufacturing and installation on the behalf of better and more efficient rectangular air duct systems. As exclusive representative of AEROSEAL LLC, our sealing technology currently transforms the ductwork process chain to the next most effective and efficient level which you can reach in air duct systems today again. With our unique sealing technology we care about the retrofit of existing ventilation systems in Europe, in the same way we do for new constructions and reduce leakage of air duct systems to nearly zero including all components of a system. By doing this, we can provide a high benefit in terms of IAQ improvement and CO2 reduction in the world.



For half a century and with great expertise and enthusiasm, **SIGA** has been developing and producing

nontoxic adhesives, tapes and membranes for creating airtight building envelopes. Since 1966, SIGA has prosperously evolved from a 15-man, local-rooted company to a 430-employee, multinational corporation, still running as a family business. With TightVent Europe, we aspire to meet the needs of our customers for an energy-efficient, enduring, and hazard-free building envelope. We share our expertise in roof, wall and floor connections, the installation of facades, window and door elements, pipe and cable penetrations.

## 25 June, 2018, 1<sup>st</sup> European conference “BIM and energy performance of buildings”

The market uptake of BIM (Building Information Modelling) is rapidly growing in nearly all European countries and one can assume that this trend will continue and even accelerate in the coming years.

In practice, there was until recently in most countries little to no attention for BIM as a support tool for the regulatory assessment of the energy performance of buildings. A smart use of BIM can be a win-win situation for both areas, whereby there surely are still several bottlenecks and challenges ahead of us.

This first conference aims to present the status of BIM and opportunities and challenges regarding BIM use for the regulatory assessment of the energy performance of buildings. The aim is also to explore possibilities and challenges for an accelerated interaction/integration.

The programme will cover visions of needs, on-going research and development work as well as demos of already existing solutions and panel discussions.

This conference is organised by INIVE EEIG on behalf of the QUALICheck

platform ([www.qualicheck-platform.eu](http://www.qualicheck-platform.eu)).

Event details:

- **When:** 8:30 – 17:00 , Monday 25th June, 2018
- **Where:** Auditorium Hadewijch, Brussels (close to Brussels North train station)

Further information on the programme, registration, etc. can be found at:

<http://qualicheck-platform.eu/>

## AIVC Workshop on airtightness & ventilation- Presentations available

The presentations of the AIVC workshop held on 19-20 March 2018 in Wellington (NZ) "Towards higher-performing buildings: The role of airtightness and ventilation" are now available for download.

Please visit the AIVC website at: <http://aivc.org/event/19-20-march-2018-workshop-wellington-nz-towards-higher-performing-buildings-role-airtightness> to access the event's presentations and programme (in pdf format) as well as further information on the event.

## NEWSPAPER: "Energy Efficiency and Indoor Climate in Buildings"

The monthly online newspaper "Energy Efficiency and Indoor Climate in Buildings" contains relevant information on TightVent Europe, the Air Infiltration and Ventilation Centre (AIVC), the international platform on ventilative cooling (venticool) & IEA EBC annex 62-ventilative cooling, the Indoor Environmental Quality- Global Alliance (IEQ-GA), the QUALICheck platform and the Dynastee network.

The paper is available at the first of every month at: <http://news.inive.org/>

Subscribe to get informed on a monthly basis on the various platforms' activities.

## Product news as provided by our partners

### **Performance tests of ventilation systems with Minneapolis BlowerDoor measuring technology**

The new pressure gauge DG-1000 convinces with its intuitive use and clear structure. Its intelligent micro-processor provides you with the functions of a modern mini-computer. The DG-1000 is compatible with all BlowerDoor measuring systems as well as with the Minneapolis Micro Leakage Meter (MLM) and the FlowBlaster. Both systems have been developed in order to guarantee the functionality of ventilation systems during residential and commercial construction. The MLM is suitable for airtightness testing of ventilation duct systems according to EN 12599 and additionally for testing building components. With a measuring range of 17 to 500 m<sup>3</sup>/h, the Minneapolis FlowBlaster allows the precise measurement of the air flow at supply and exhaust air valves. More information: [www.blowerdoor.com](http://www.blowerdoor.com)



The Minneapolis Micro Leakage Meter (MLM)



The FlowBlaster

### **A certified step towards sustainability**

Lindab has managed to fulfil the highest criteria and is now certified by Eurovent, a renowned organization and issuer of certification in several sectors and industries, for our duct systems Lindab Safe and Lindab Safe Click. Not just because we are delighted to become the first company to receive a certificate from Eurovent for circular duct systems, but because the certification is a reminder that high-standard ventilation solutions is a necessity in our efforts to reduce energy consumption and minimize the strain on the environment. Do you want to know more about Lindab's air-tight ventilation systems or what the Eurovent certification means? Read more about our solutions on our web or contact Torbjörn Bruzelius, Strategic Product Manager Lindab Group at: [torbjorn.bruzelius@lindab.com](mailto:torbjorn.bruzelius@lindab.com) to find out more.

### **MEZ-AEROSEAL – the new air tightness class for ductwork**

MEZ-AEROSEAL is a breakthrough technology for subsequent sealing of already installed air duct systems from the inside out. This technology reduces the thermal losses of leaky air duct systems and optimizes the energy consumption of ventilation units. This substantially contributes to an improvement of the whole building performance. Due to the high effectiveness of MEZ-AEROSEAL and as a result of the reduction of energy loss of air duct systems or buildings in general, this technology strongly contributes to reduce the carbon dioxide emissions. It is also an alternative to the deconstruction of existing air duct systems, and prevents therefore the disposal of existing air duct systems and the investment in new air duct systems. Further information is available at: [www.mez-aeroseal.com](http://www.mez-aeroseal.com)



MEZ-AEROSEAL machine



MEZ-AEROSEAL sealant

## DIAMOND PARTNERS



## GOLD PARTNERS



## SILVER PARTNERS



## ASSOCIATE PARTNERS



## PLATFORM FACILITATOR

