

We would like to thank our long-standing partners and customers !



Over the past 30 years we have been able to benefit from the experience of our partners, customers and colleagues, so that we were able to present various tasks, individual approaches and solutions as part of our anniversary.

Thank you!



30 Years of Minneapolis BlowerDoor

30 years of
challenges

30 years of
unusual
application

30 years of
BlowerDoor

30 years of
various
projects

Measuring
setups

30 years of
development

30 years of
solutions

30 years of
support

ring
tests

... use in art

test bench

30 years of
exchange

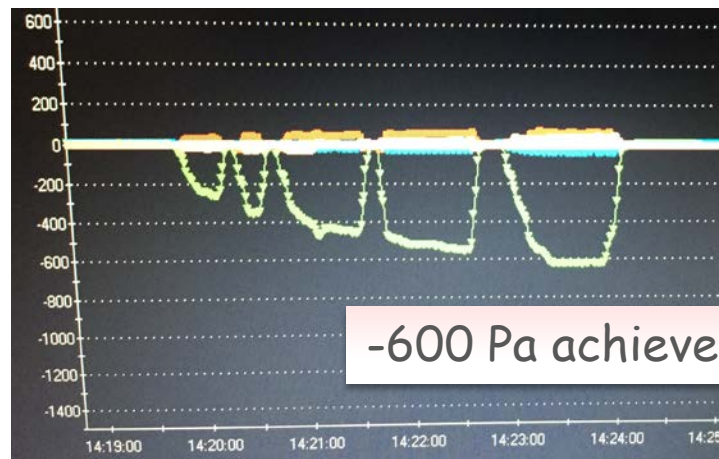
30 years of
calibration

ect. ...

On the following pages we present further extraordinary projects and applications with BlowerDoor measurement technology.

The "bell test" with three measuring fans one behind the other

Target: At the highest possible negative pressure, it is tested how well a material adheres to a substrate and when it detaches from the surface. In this test, only the applied pressure difference is of interest.



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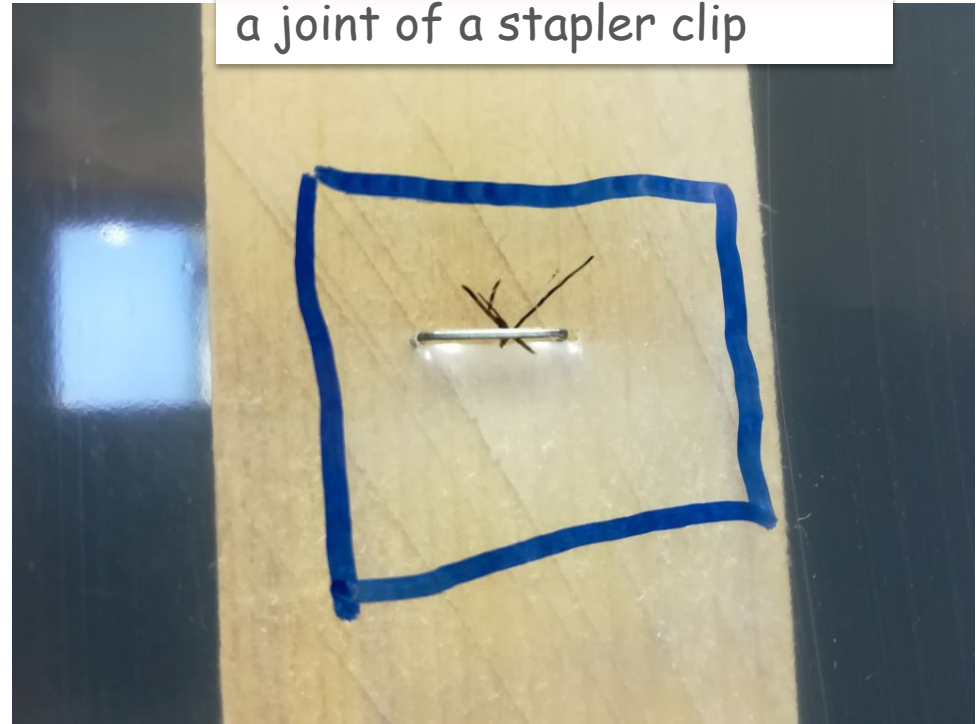
Curiously researching – how much air flows through a leak?

Target: On the test bench, individual leakages that can occur on the building envelope are simulated and the volume flows are measured.



Test bench with the Micro Leakage Meter for measuring individual leakages

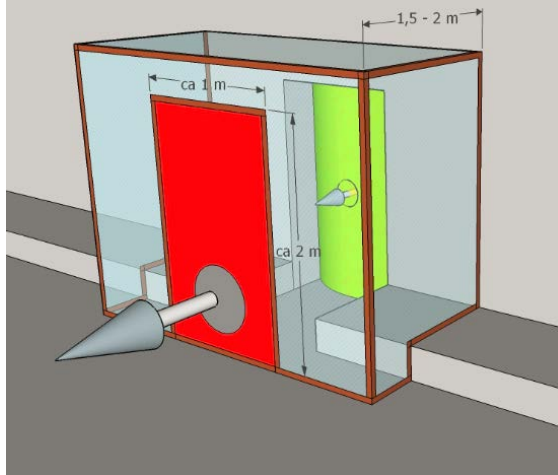
How much air flows through a joint of a stapler clip



Escape doors in the Frederikssundsvejtunnel, Copenhagen

Target: The airflow at an exemplary escape door in the motorway tunnel is to be determined in order to enable people to escape in the event of a fire.

Planning the measurement



Are the fire doors installed sufficiently airtight to prevent the spread of life-threatening smoke gases?



Source: Lars Thomsen Nielsen, Danish Technological Institute, www.dti.dk

Local leakages – method and development of probes

Target: Development of a mobile measuring probe for the exact determination of the air flow through individual local leakages.

Air velocity and differential pressure are measured



On the trail of leakage volume flow



Source: Cooperation project of [BMDW](#), [ACR](#), [Holzforschung Austria](#), [AEE INTEC](#) and [BTI](#) in Austria

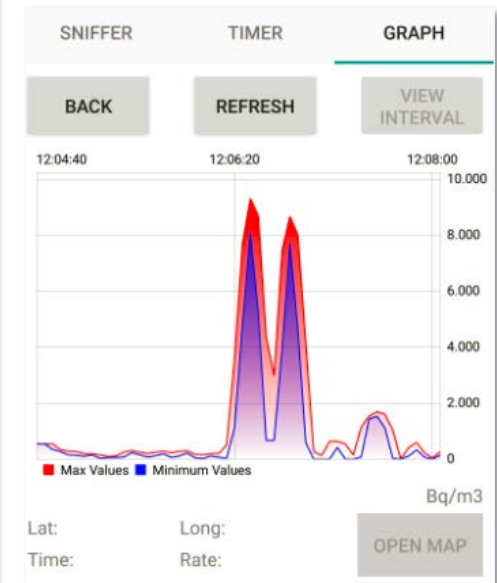
Test of a new radon measuring device for the sniffing method

Target: Detection of radon entry points by means of negative pressure and sensitive.

The radon gas is excited by negative pressure.



Radon gas with almost 10.000 Becquerel enters the building at this installation shaft.



The BlowerDoor was briefly switched off between the measurement peaks to illustrate the negative pressure effect.

Source: Martin Waltl, RadonTec GmbH

Museum MMK museum for modern art, Frankfurt, Germany

Target: Generation of air movement

For the installation “Looking for something that has already found you (The Invisible Push)” nothing should be seen in the exhibition space, but only felt.



Source: MMK

1. Ryan Gander

Looking for something that has already found you (The Invisible Push), 2019

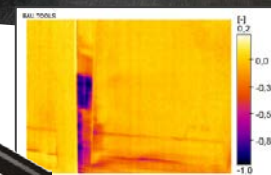
Visitors entering the central exhibition hall of the museum may be astonished by its emptiness. The expectation of finding something palpable, something that is visible and perhaps even comprehensible, is probably one of the subconscious assumptions we associate with the exhibition space. *Looking for something that has already found you (The Invisible Push)* makes no visible changes and offers only a view of the building architecture. Yet a relationship emerges between our bodies and the surroundings when we notice the invisible wind. Neither here nor outside the museum walls is our perception of the wind a matter of choice, nor is the sensation something we decide to feel. Perceptible in gradual differences, the elusive wind stimulates our largest sense organ—our skin. What we perceive is the embodiment of the change that captures the body.

Within the walls of the museum building designed to provide a perfect climate for the works of art, the wind is an artificial change that is meant to be felt by the visitor, and which disturbs the uniform atmosphere in which art is normally viewed—or turns our attention to how we perceive art when we look at it. *Looking for something that has already found you (The Invisible Push)* opens up a realm of possibilities for what is to come and for the perception of something that has already found us.

BlowerDoor fans “behind the scenes” were used for the installation.

These are our 30 presentations

- 30/03/2019 Illustration of different kind of buildings and applications
- 04/04/2019 The BlowerDoor test in single family homes during construction
- 11/04/2019 The BlowerDoor final test in a single family home
- 18/04/2019 Testing the relative humidity in a bathroom
- 25/04/2019 Determination of extinction gas holding times
- 02/05/2019 The airtightness test before rehabilitation
- 09/05/2019 Examination of the airtightness of hollow floors
- 16/05/2019 The airtightness measurement for damage analysis
- 23/05/2019 Methods of leakage detection
- 30/05/2019 Leckageortung mit dem Anemometer
- 06/06/2019 The airtightness measurement in clean rooms
- 13/06/2019 Leakage detection with fog
- 20/06/2019 The airtightness measurement in large buildings
- 27/06/2019 Leakage detection with BlowerDoor & thermography
- 04/07/2019 Leakage detection with ultrasound



These are our 30 presentations

- 11/07/2019 Testing the tightness against driving rain
- 18/07/2019 BlowerDoor Test in very airtight buildings
- 25/07/2019 Radon measurement at negative pressure (Rn50-Test)
- 01/08/2019 The DG-1000 emulator
- 08/08/2019 The guarded BlowerDoor test
- 15/08/2019 Way to good air tightness: air barrier design
- 22/08/2019 I packed my bag ...
- 29/08/2019 Testing of ventilation duct systems
- 05/09/2019 Testing components in a test chamber or on site
- 12/09/2019 Determination of the airflow at exhaust and supply air valves
- 19/09/2019 Testing of air permeability through window and door joints
- 26/09/2019 DG-1000 Application options
- 03/10/2019 Examination during construction in large buildings
- 10/10/2019 Long-term measurements at buildings due to external influences
- 17/10/2019 The Final



"I am more interested in the future than
in the past, because the future is
where I intend to live" *Albert Schweitzer*



We are happy to receive feedback
and suggestions at any time
and will of course also accept
your constructive criticism.

Write us by e-mail:
info@blowerdoor.de

Your interest is our motivation!
Thank you for your statements in advance!