











webinar 2024.01.26

Airtightness tests for high-rise buildings









Agenda (CET)

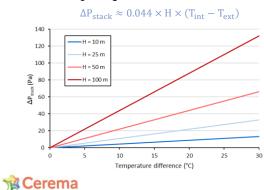
- 10:00 | Welcome & Introduction, Valérie Leprince (Cerema, France)
- 10:05 | Challenges and Experiences of Airtightness Tests in Tall Buildings, Stefanie Rolfsmeier (BlowerDoor, Germany)
- 10:35 | ISO 9972 and constraints on zero flow pressure difference: a comprehensive study on the influence of stack effect, Benedikt Kölsch (Cerema, France)
- 10:55 | Questions and answers
- 11:00 | Practical recommendations for airtightness tests in high-rise buildings, Nolwenn Hurel and Valérie Leprince (Cerema, France)
- 11:20 | Questions and answers
- 11:30 | End of webinar

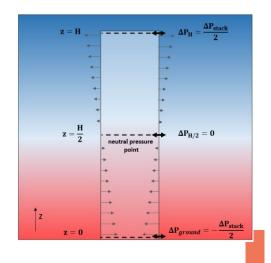
WHAT IS THE ISSUE WITH HIGH-RISE BUILDINGS?

1/ Stack effect

Proportional to:

- The temperature difference between inside and outside
- The building's height





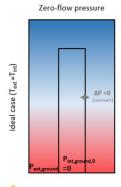
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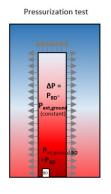
CLIMAT & TERRITOIRES DE DEMAIN

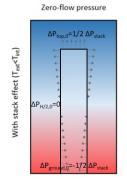
WHAT IS THE ISSUE WITH HIGH-RISE BUILDINGS?

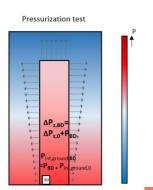
1/ Stack effect

Induces significant ΔP variations along the building's height









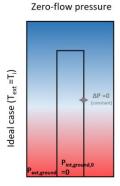
RÉPUBLIQU FRANÇAISE Cerema CLIMAT & TERRITORIES DE DEMAIN

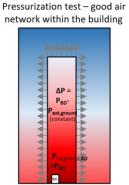
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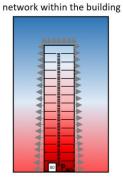
WHAT IS THE ISSUE WITH HIGH-RISE BUILDINGS?

2/ Pressure loss through stairwell and circulation

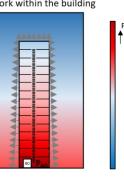
Also induces significant ΔP variations along the building's height







Pressurization test - poor air







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WEBINAR PROGRAMME

- **↓** 10:00 | Welcome & Introduction Valérie Leprince (Cerema, France)
- ♣ 10:05 | Challenges and experiences of airtightness tests in tall buildings Stefanie Rolfsmeier (BlowerDoor, Germany)
- **♣** 10:20 | Questions and answers
- 4 10:30 | ISO 9972 and constraints on zero flow pressure difference: a comprehensive study on the influence of stack effect

Benedikt Kölsch (Cerema, France)

- **♣** 10:45 | Questions and answers
- ♣ 10:55 | Practical recommendations for airtightness tests in high-rise buildings Valérie Leprince and Nolwenn Hurel (Cerema, France)
- ♣ 11:10 | Questions and answers
- **♣** 11:30 | End of webinar



