
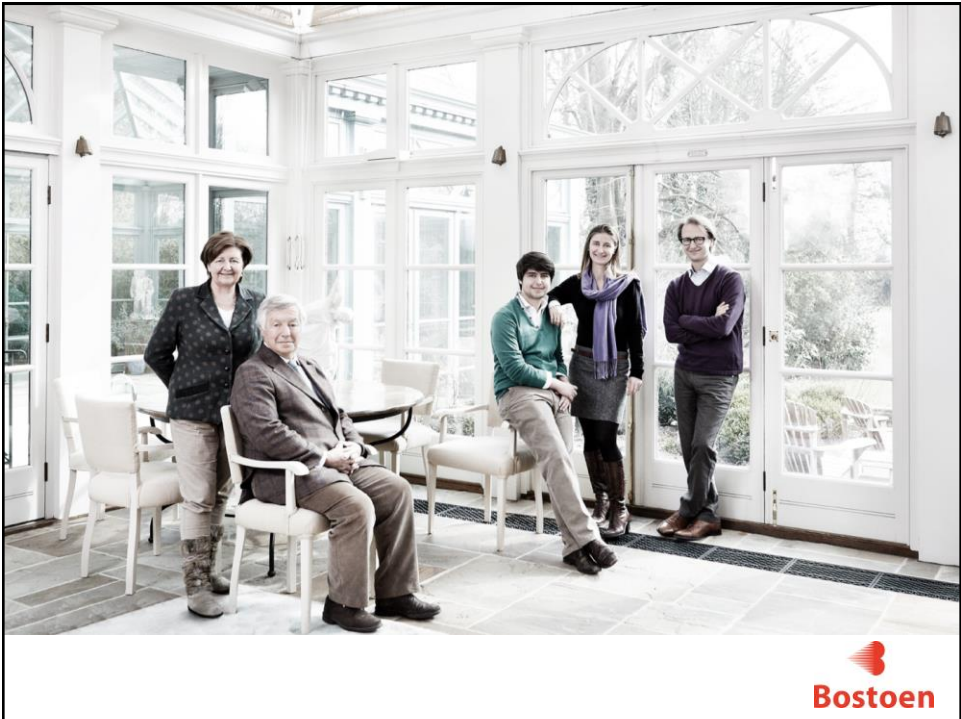
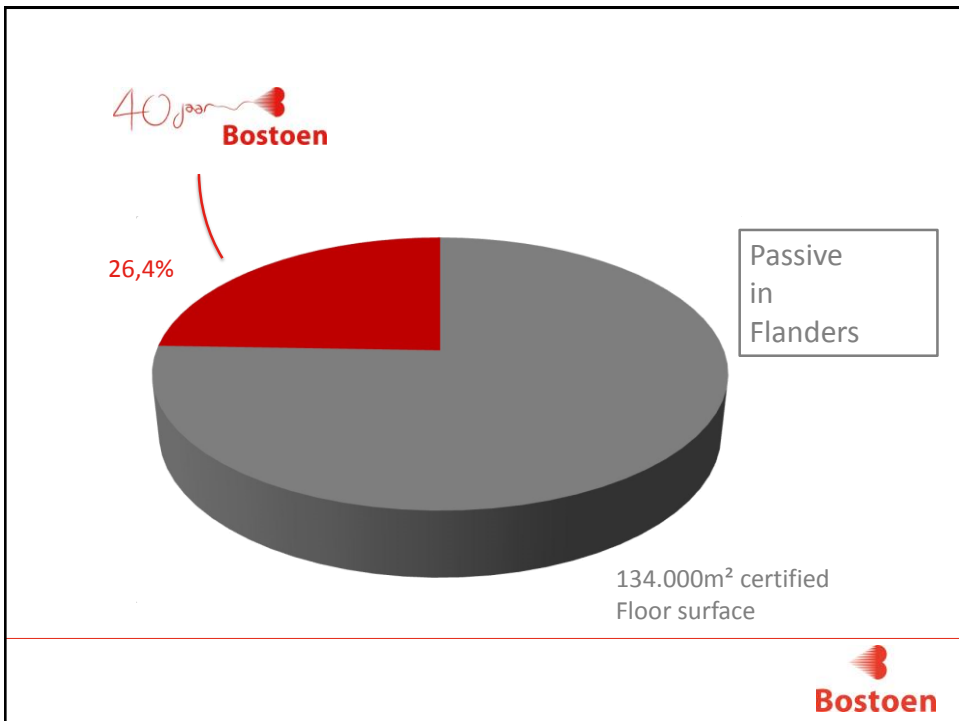


40 jaar 
Bostoën





Compliance controls

Air-tightness: $\leq 0,6h^{-1}$ at 50Pa

Ventilation: according to EPB regulation



Air-tightness

Precicious building methodology
Airtight buildings are conventional buildings, built with more care.



Air-tightness

Precision in detailing AND execution.



Little effort, big difference.

Air-tightness

The 3 M's

Air-tightness



One of the only prerequisites for building with an n50 value that's smaller than 0.6, is that all the people working on it, from architect to construction worker, are aware of what they're doing.

Air-tightness

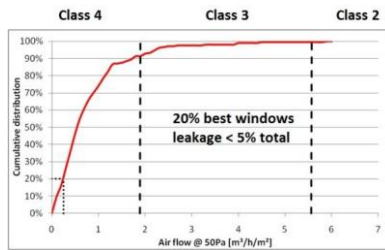


Motivation & Mentality

- Adequate training for everyone involved.
- Feedback from every level of the chain of command.
- Everybody has the same goal.

Air-tightness

Materials



Example:

The use of the best windows available on the market.
(Graph from presentation by Ugent.)

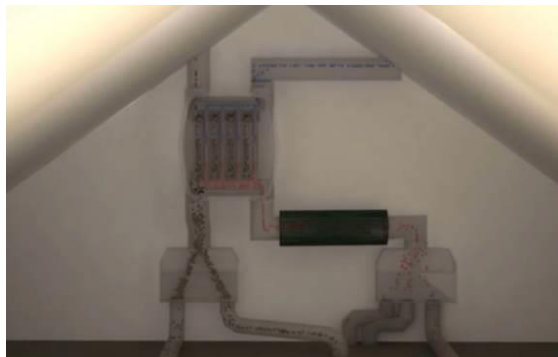
Air-tightness

The Proof

Air-tightness



Ventilation



Ventilation

Same methodology as approving air-tightness:

- Concept  Installation

- Measurement  Certification

Ventilation

- Concept takes place in an early stage of the building planning.
- Calculating the system with the most recent regulations.
- Drawing complete ventilation plans.
- Dummy proof system.
- Using specially educated employees.

Ventilation

- Installation according to a theoretical optimised scenario.
- Construction workers have the knowhow and install the system according to arts and best practice (keep the ducts clean, regulate the system, ...).
- This makes it much easier to convert an optimal scenario into a healthy and properly functioning installation.



Ventilation

± 400 buildings were measured by third party!

Failed?

Repaired and retested without any further problems.

dummy proof system + correctly prepared drawings
=
good & healthy ventilation system






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