Qualification of airtightness testers

A tester certified in airtightness measurement

Course in airtightness measurement and Byggal (Quality Assurance)

The course is aimed at those who carry out airtightness measurements of the building envelope according to SS EN 13829, and that they will show to their employers that they have the competence to perform this testing in a correct and accurate manner.

The course also provides an understanding of how to execute the work required for good airtightness using Byggal (method for constructing airtight buildings) during the different stages of the building process.

Scope of course: 2 theoretical study days + one half day for practical testing

Responsible for the course: SP
**Course Aim**

- To master the following:
  - Airtightness measurement according to SS EN 13829
  - Searching for air leakage
  - Report writing according to SS EN 13829
- To obtain an understanding of how, using ByggaL, one is able to work towards a good construction airtightness during the different phases of the building process.

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*Examples of assignments and work information*

**People who have a particular competence and experience in the field of airtightness measurement can:**

- Carry out and give an account of airtightness measurements according to SS EN 13829.
- Carry out airtightness measurements and search for air leakage at an early stage of the building process and plan accordingly

**In certain case, depending on experience, a person may:**

- Give support and advice to different operators in the building process to obtain an airtight building

**Responsibility:**

- Correctly executed testing and reporting of results
- Regarding other commitments such advice and support in reaching an airtight building, this depends on the responsible person’s agreement with the client
Content I

- Theory on air movements (pressure, air flow etc.)
- Consequences by air leakage and air movements (energy, moisture safety, indoor air quality etc.)
- Rules, regulations and certifications of buildings, doors and windows
- Qualification of air tightness testers - responsibilities
- Airtightness measurements according to SS EN 13829
  - Standard
  - Equipment
  - Procedure
  - Measurement accuracy
  - Calculation of surfaces
  - Sectioning a measurement (building, apartment, component)
  - Back pressure

Content II

- Using the building’s ventilation system
- Air leakage search
  - Procedure
  - Where are the leakages?
- How to build air tight
  - Principles, durability and products
- Checklists for design and production
- Group exercises on reviewing drawings

Ends with

- Theoretical test
- Practical test on airtightness measurements and air leakage search
Today, 16 tester are certified in airtightness measurement

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Method for the construction of airtight buildings