# FAF3404 Building Physics II - Air-tightness in Buildings 4.5 cred-its

**Byggnadsfysik II - lufttäthet i byggnader**

This is a translation of the Swedish, legally binding, course syllabus.

## Establishment

## Grading scale

P, F

## Education cycle

Third cycle

## Specific prerequisites

Master of Science in Civil Engineering or similar, with an undergraduate course in building technology.

## Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

## Intended learning outcomes

After the course, the student shall

- have a deeper understanding of both the principles of air tightness and they are applied in a sustainable way in practical building technology;
- be able to describe the most significant methods for measurement of air tightness building envelopes and describe the factors that affect these properties;
- be capable of choosing and performing evaluations around what the air tightness will mean for a buildings technical performance.

## Course contents

The course gives a comprehensive understanding about how air tightness influence a buildings technical operation. Particular emphasis is put on air, heat and moisture transport.

## Examination

- RAP1 - Project report, 3.0 credits, grading scale: P, F
- TEN1 - Oral exam, 1.5 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

## Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.