



Masonry Structures

1st Seminar

Introduction

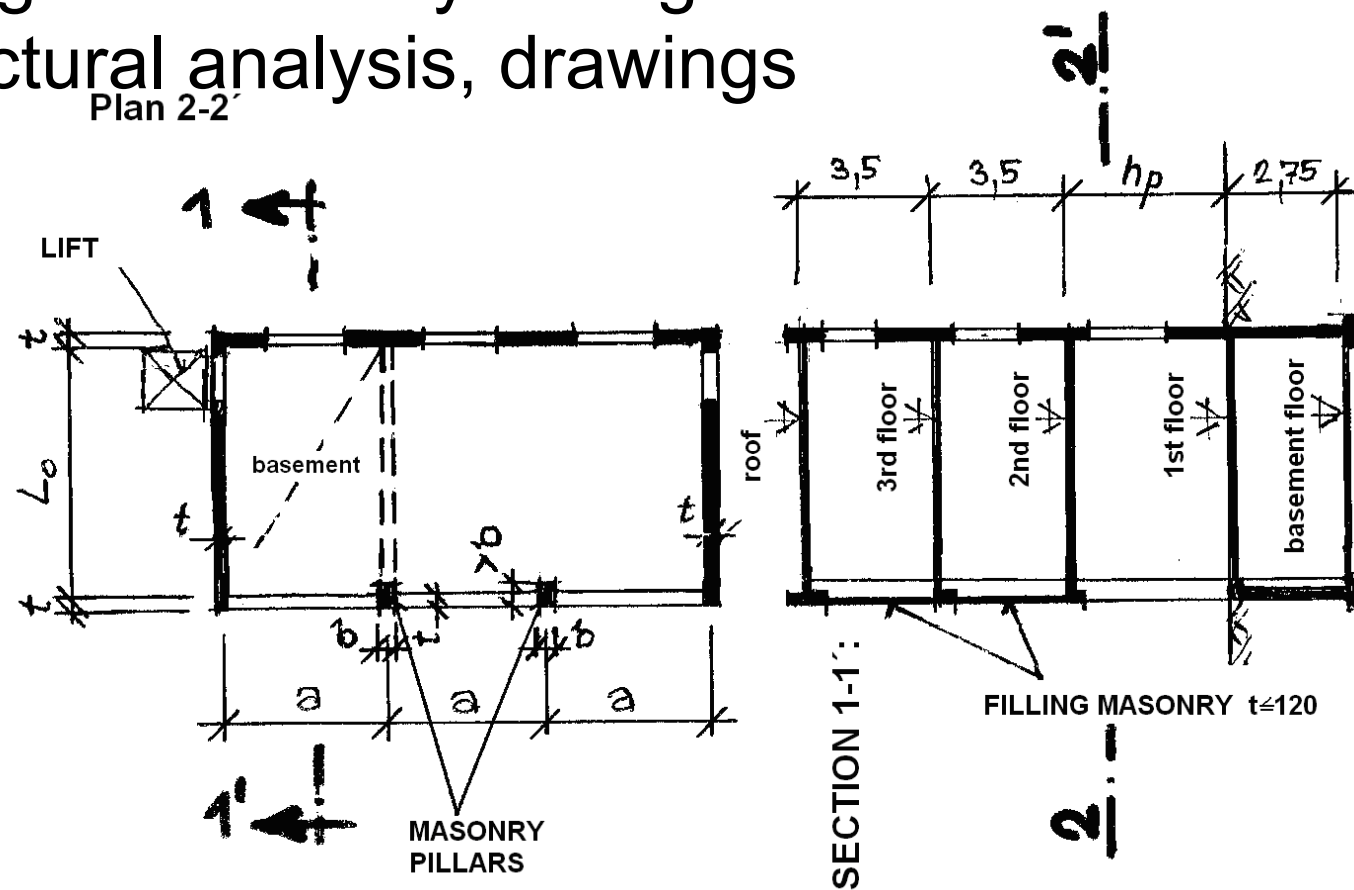
- ❑ Petr Bílý petr.bily@fsv.cvut.cz
 - ❑ <http://concrete.fsv.cvut.cz/~bily/133MASO.htm>
 - ❑ Office no. B731
 - ❑ Office hours: Monday 09:00
Friday 09:00
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Course Completion Requirements

- ❑ Receive at least **35** out of 63 points
 - ❑ Tests
 - In the beginning of each lecture/seminar (12 tests)
 - Max. 3 points for each test
 - ❑ Homework (9 parts) delivered at
 - next seminar => 3 points
 - second seminar => 2 points
 - third seminar => 1 points
 - Later – will not be accepted!!!
 - Mistakes are to be corrected until next week, otherwise you will lost the points you received
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Seminar task

- ❑ Design of masonry storage house
- ❑ Structural analysis, drawings



Homework - page layout

- ❑ A4 onesided,
handwritten by pencil
- ❑ Each calculation:
 - General formula
 - Substitution of numbers
 - Result
- ❑ Loadings – in tables
- ❑ Quote units
- ❑ WELL-ARRANGED!!!

5 cm

$$M_{Ed} = 1/8 \cdot f \cdot L^2$$

$$M_{Ed} = 1/8 \cdot 8 \cdot 5^2$$

$$\underline{M_{Ed} = 25 \text{ kNm}}$$

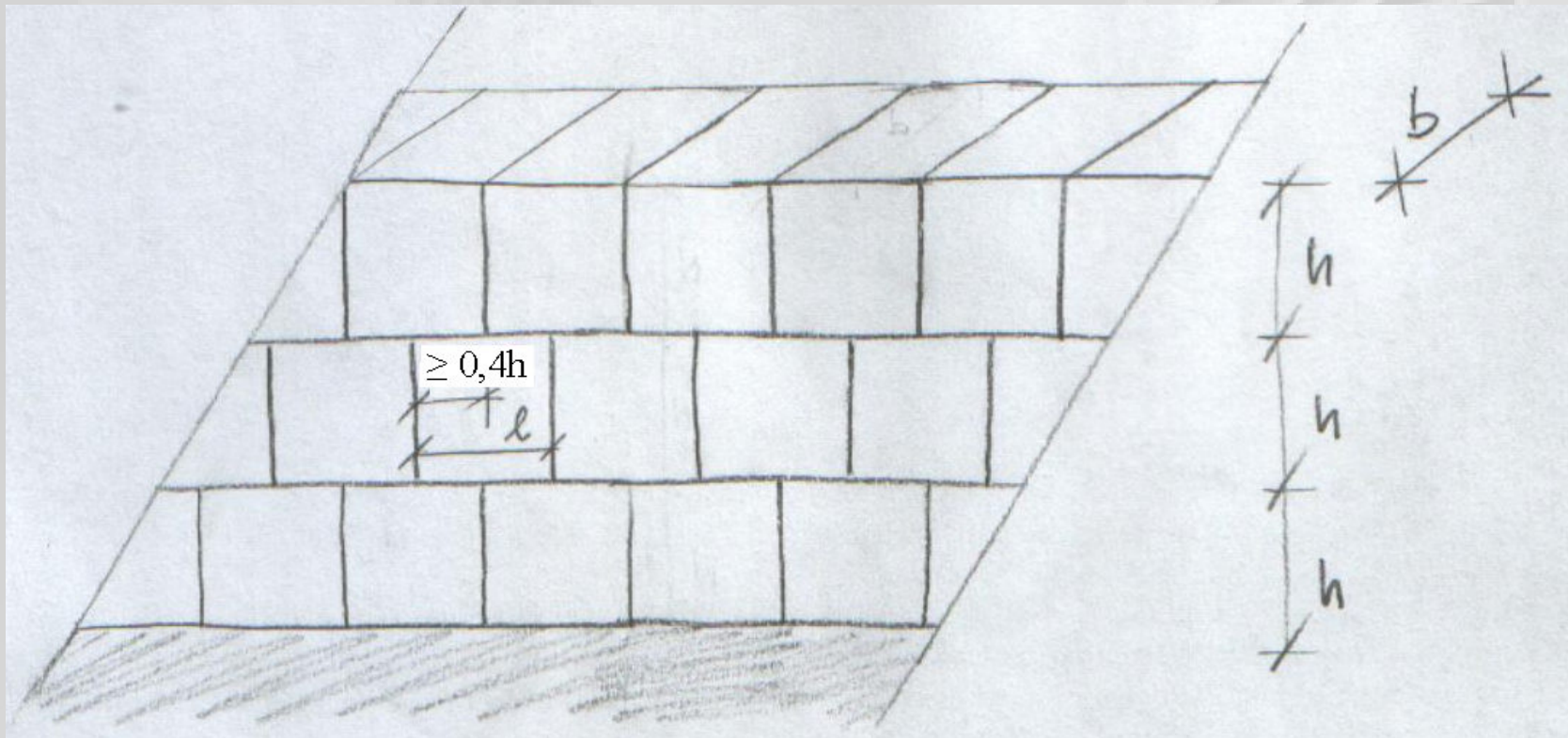
Load	Char.	γ_F	Design
...	...	1,35	...
...	...	1,50	...
			TOTAL

1st homework

- ❑ Read the task
 - ❑ Download your individual parameters
 - ❑ Get familiarized with your masonry system (Porotherm or Heluz)
 - ❑ Draw a sketch of bond of load-bearing wall
 - ❑ Draw a sketch of bond at the corner
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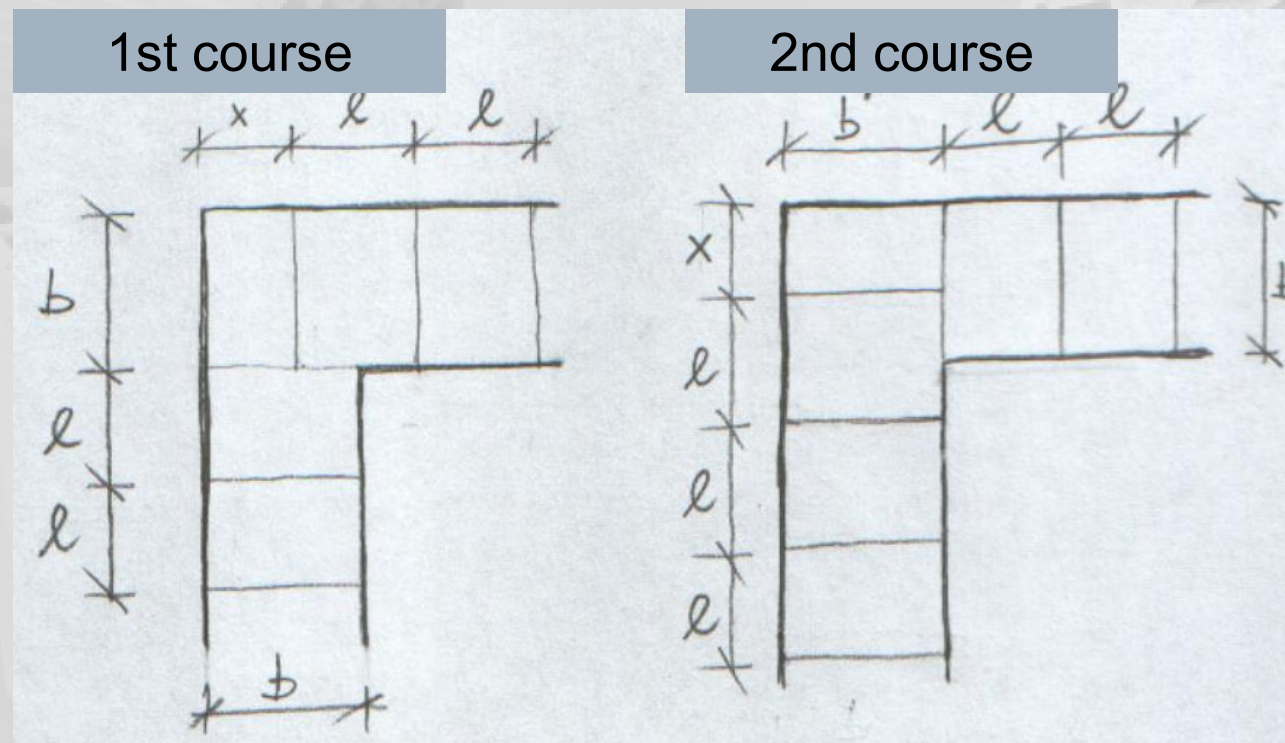
Sketches

- ❑ Bond of load-bearing wall – axonometry, scale 1:5 or 1:10



Sketches

- ❑ Bond at the corner – plans of 1st and 2nd course, scale 1:5 or 1:10



The background of the slide features a collection of white plastic components. In the foreground, there is a large, rectangular sheet with a grid-like mesh pattern. Behind it, several other sheets are visible, some with a corrugated or ribbed texture. The items are arranged in a way that suggests they are part of a product line or a set of materials.

Thank you for your attention

Any questions?