

# 123BM01 - BUILDING MATERIALS - EXAM

**Date of exam** - after agreement with students (usually 2 terms)

**Total time:** ca 3 - 4 hours

**Written part** (obligatory for all):

**1. Test from general knowledge** - ca 20 min

- 10 questions (from lectures)
- short answers
- no books or notes
- definitions, some chemical equations, properties and units, use of materials, comparison of materials
- no figures (except figures emphasized at lectures), no commercial names, no numbers of standards
- right answer/partly answered question/bad answer = 1/0,5/0 points → max. 10 points

**2. Calculations** - 45 min

- calculators necessary!
- no books or notes
- official aid - one paper with formulas and values ([download](#) from our web page)
- 3 simple problems (similar to problems, solved at seminars):
  1. particle size distribution of mixture
  2. physical properties (density, bulk density, moisture content, porosity, thermal elongation...)
  3. mechanical properties (strength, modulus of elasticity...)

**Grading:**

**Test : A:** 9-10 points

**B:** 8 -8,5

**C:** 7 -7,5

**D:** 6 - 6,5

**E:** 5 - 5,5

**F:** under 5 points

**Calculations:**

**A:** 3 solved problems

**C:** 2 solved problems

**E:** 1 solved problem or partially solved all three problems

**B, D :** + other partially solved problem

**Oral part and final result:**

- same day as written part, ca 1 hour later
- 2 grades from the written part (e.g. B + D)
  - Satisfied with the worse grade? → No oral exam, worse grade is the final result of exam (e.g. D)
  - Want a better grade? → Oral exam → Final result =? (↑ ↓)
  - One grade is F → Oral exam obligatory, final result =? (↑ or F)
  - Both grades are F → ☹ Final result = F (failed) → New exam