

17TH LECTURE – PREPARATION FOR EXAM

Theoretical questions: based on the practice
Brick/block bonding, shaft arrangement, planning of lintel, vertical dimension arrangement
Any other small sketch

FLOOR ARRANGEMENT**1. Load bearing direction**

- shorter span
- in special case – depending on the balcony
- arrangement of the stair

2. Arrangement

- the average case: depending on the span (smaller or higher beam/filler block, single-double beam)
- changing the span
- partition wall (perpendicular, parallel)
- double partition wall
- chimney
- shaft
- How many beams to support the monolithic area – depending on the width to span
- ribs – against buckling

3. Balcony (always monolithic RC!!! in the case of beam-filler block construction)

- load-bearing direction – cold bridge – support
- supported by wall, pillar
- by cantilever (in load-bearing wall), (in non-load-bearing wall)
- by cantilever in the middle of a slab (monolithic or partly mon.)
- divided ring-beam as a support (wall thickness, bearing of beams, beam type)
- ribs as a support (cantilever)

4. written information

- No. beams, type, length, No of filler blocks, type
- monolithic slab (centering level, thickness)
- monolithic beam (width, height, centering level)
- ring beam
- lintel (prefab., mon.)

Measurements**5. Detail**

- based on the correct arrangement
- descriptive geometry defines the drawing
- HAS TO BE “SEEN” – **PRACTICE it!!!**