

Modernity and Dwellings and building technology

Description building technology on the graduation form:

Science area: Building Technology

Product to be assessed: technical explanation of the design in word and image, drawings on appropriate scales.

Aspects to be assessed: Coherence of architecture, structure, load bearing construction, ducts and services, materials used and technical details.

Progress exam P3

Required for the science area building technology:

- all plans, scale 1:200 or larger;
- At least two sections, perpendicular to each other, scale 1:200 or larger. (the scale 1:200/ 1:100 drawings provide insight in the spatial coherence of the building);
- The static diagram of the building. The diagram shows how the forces are delivered to the foundation and how the stability of the building is guaranteed;
- De principles of climate design, the ducts, services, HVAC / MAP. Heating and cooling can compensate an envelope of poor thermal performance. On the contrary, a high performance façade reduces the HVAC load. Make a drawing or diagram of the airflow, heating and cooling. Indicate routing and space reservations for sewage, ventilation, water, gas, and cabling (electrical, data);
- An overview of built volumes in spatial drawings and or models.
- a stacking of dwelling plans scale 1:50.
- Section of a typical façade, floor to floor, scale 1:20 (The scale 1:20 sections provide insight in de the layering of the floors and walls. These drawings include information about applied materials and products).
- An impression of the master detail, the mother of all details. This is a set of detail drawings (vertical and horizontal section and an elevation, scale 1:5 or an isometric drawing with a similar level of information). This detail includes the major materials shape and tectonics, giving a face to the building. The master detail can be the root of a family of details. Indicate how variations of the master detail develop.

The drawings tell the story of the design and its resulting building. How is technology applied to create the desired architecture? Look at is a communication task: What should be drawn in order to explain how the building works? In addition, equally important it is a proof of your skills.

It could well be that you have made insufficient progress to produce the drawings asked. Nevertheless it is strongly advised to outline the required drawings. Draw what you know and what you are likely not to change anymore. The drawing then shows the white spots that still have to be filled in. This helps you to plan your work for your P4 exam.

This is a pin up presentation.

Did you establish a subject for your BTCD contribution?

Cheers,

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