



NEUBAU ZOLLIKOFEN

Competitions represent one of the core disciplines of architectural design. In preparation for professional challenges, we propose to simulate a recently concluded competition.

The given competition brief is technically very demanding. Students are expected to fulfill all the given requirements entirely. Exceptions must necessarily result from in-depth research. Otherwise, individual interpretations cannot be accepted. To pass the diploma semester, students are expected to develop independently and individually a clear concept and elaborate it coherently into a detailed architectural project.

The requirements of the competition brief are the following:

- . The provision of at least 150Lkm of new archive space for the Federal Archives
- . The new Archive should be equipped with a fully automated high-bay warehouse and operated with as few resources as possible
- . The areas and arrangement of the technical control centers must be determined in accordance with the building system concept
- . The BBL (*Bundesamt für Bauten und Logistik*) sustainability strategy defines concrete social, economic, and environmental objectives that must be implemented in the project; namely:
 - . The reduction of greenhouse gas emissions
 - . The production of electricity and heat from renewable energies through the use of suitable roof and façade surfaces
- . Planning and possible certification in accordance with the SNBS standard (*Standard für nachhaltiges Bauen Schweiz*)
- . The building should be constructed using materials that conserve resources and have a low environmental impact; the variety and quantity of materials should be kept to a minimum
- . Local, renewable and recyclable building materials should be used wherever possible.

More about the ongoing competition:

<https://competitions.espazium.ch/de/wettbewerbe/home/neubau-magazin-bundesarchiv-zollikofen>
<https://www.bar.admin.ch/bar/de/home/ueber-uns/Medienmitteilungen.msg-id-99996.html>

Description of preparation and elaboration phase in key-words:**Preparation phase:**

- Analysis of the design brief
- Analysis of technical, functional, and energetic requirements
- Research on the correlation between typological specificities of the program and structural principles
- Collection of case-studies of comparable objects
- Concept study: development of an organizational, functional, energetic, and structural principle.

Elaboration phase:

- Specific design according to the emerging topics from the preparation phase.

Teaching format:

The preparation phase aims at defining the design criteria for the elaboration phase. This phase consists of a research part, which can be done in the format of group work and a concept study part that will be done in the form of individual work. Both phases will be assisted weekly in the form of collective or individual feedbacks by the assistants and intermediately discussed during three reviews with Christian Kerez and Axel Paulus.

Ratio of grading by cooperation partners for the preparation and elaboration phase:

The grade will be defined in accordance with both cooperation partners.

Preparation phase:

Percentage designer(s): 80%

Percentage non-designer: 20%

Elaboration phase:

Percentage designer(s): 80%

Percentage non-designer: 20%