

MFH Wiesengrund, Küsnacht ZH

2013



The MFH Wiesengrund is a new four-story building with four exclusive apartments in Küsnacht. It is the first apartment building in the canton of Zurich with the Minergie-A label ZH-001.

The project

The execution The building is constructed in a hybrid construction method with a solid staircase core and floor slabs in concrete as well as load-bearing exterior walls in prefabricated timber construction. The retracted attic floor is constructed entirely in wood. All interior walls are constructed in dry construction, thus allowing the greatest possible flexibility for future usage requirements.

The construction

The details The load-bearing exterior walls in wood consist of adhesive-free solid wood panels 150 mm thick. These also take over the vertical load transfer from the concrete floors. The outer insulation layer consists of an insulated cross-laminated timber grid, each 120 mm thick, and is covered with a DHF board. The elements were prefabricated in such a way that they each already integrated the face formwork for the concrete slab and the support for the wall above. The facade consists of a rear-ventilated, large-format mineral panel (Rockpanel), which was subsequently installed on site.



Exterior view street side from above



Exterior view from the street side from above in the carcass



Load-bearing wooden walls ground floor before concreting the ground floor slab



Concrete ceiling over ground floor shortly before concreting

Construction Data

- 430 m² Solid wood panels nailed d = 150 mm
- 170 m² Roof elements hollow box h = 380 mm
- 310 m² Facade cladding Rockpanel
- 130 m² Facade cladding wood sheathing vertical

Services of Timbatec

- SIA Phase 31 Preliminary design
- Fire protection planning
- SIA Phase 32 Construction project
- Structural analysis and design
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Implementation project
- Technical site management and site inspections

Building Services

Ernst Basler Partner
8032 Zurich

Building physics

Bakus Bauphysik
8045 Zurich

Civil engineer

UBM Bauingenieure
8006 Zurich

Architect

Krayer&Smolenicky Architekten GmbH
8004 Zurich