

New construction MFH Habsburgstrasse, Zürich

2011



An exciting new building project on Habsburgstrasse in Zurich. A 5-storey MFH as a pure timber construction. Solid construction despite difficult fire protection conditions. The central staircase core and the fire wall to the neighboring building brace the column-slab construction.

The project

The apartment building at Habsburgstrasse 1 in Zurich consists of 2 basement floors and 5 full floors above ground. The 1st and 2nd basement levels as well as the staircase with elevator shaft are of solid construction, while the staircase with elevator shaft extends to below the roof. The 5 full floors were built in timber construction. This part is composed of primary and secondary structure. The former consists of glulam columns/joists forming 4 longitudinal load-bearing axes. The secondary structure consists of box girder elements that sit on top of the beams.

The construction method

The wall elements were placed on or between the posts. In the building construction, the columns each run over one floor height so that a complete full floor could be assembled in each case. The offset floor elements served as a working platform for the assembly of the floor above.

The challenge

The routing of the building services installations was very demanding. Supply and exhaust air lines of the controlled apartment ventilation systems were routed in the specially formed cavity between internal columns/joists. Special attention was paid to fire protection. The building has quality assurance level Q4, i.e. the highest level.



Start column assembly EG



Shell erected

Construction Data

- 5 floors
- 13 apartments
- 350 m²

Services of Timbatec

- SIA phase 31 preliminary project
- Cost estimate
- SIA Phase 32 Construction project
- Structural analysis and design
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Implementation project
- Site supervision and site inspections

Timber contractor

Hector Egger Holzbau AG
4900 Langenthal

Architect

HLS Architekten Hauenstein La Roche Schedler
8004 Zurich