

Replacement Multi-family house, Zurich

2022



We were able to work on the structural analysis and fire protection for this apartment building. The building has a wooden staircase and therefore also a wooden building reinforcement.

The project

The apartment building has a basement with underground parking, technology and cellar rooms in reinforced concrete. Above this are 4 storeys in pure timber construction with a timber staircase and building reinforcement. The facade is designed with vertical timber cladding and fitted with aprons for fire protection.

The construction method

The walls are of frame construction with the exception of the bracing walls, which are made of cross-laminated timber. Cross laminated timber was used for the storey ceilings, which were covered with a fill for the line level and sound insulation. The staircase is constructed with encapsulated cross laminated timber.

The challenge

Finding suitable bracing was a challenge, as there are practically no continuous walls across all floors. This was solved with cross-laminated timber walls, which were braced with threaded rods.



Services of Timbatec

- SIA Phase 32 Construction project
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Execution project
- SIA Phase 52 Execution
- SIA Phase 53 Commissioning
- Specialist fire protection planning

Architect

kämpfen zinke + partner ag
8055 Zürich

Timber construction engineer

Timbatec Holzbauingenieure (Schweiz) AG Zürich
8005 Zürich

Timber construction

STRABAG AG, Lindau
8315 Lindau/ZH

Photography

kämpfen zinke + partner ag
8055 Zürich