# Replacement Multi-family house, Zurich





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**

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### Timber construction engineer

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#### **Timber construction**

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# **Photography**

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