

Replacement new building farm store farm Waidhof, Zürich

2018



At the Waidhof farm in Zurich, the old farm store was replaced with a modern structure and a new cart shelter was built. The whole building project was realized with HSH certified Swiss wood.

The project

The organic farm Waidhof is located north of the city of Zurich in district 11. It belongs to the city of Zurich and is leased by the Götsch-Rutz family. For direct sales from the farm, the farm has a farm store, which was replaced due to age and lack of space. In the new building there are rooms for the sales store, the production as well as a multi-purpose room. At the same time, a new shelter for the agricultural machinery was built. Timbatec Holzbauingenieure AG was responsible for all timber engineering services in this project, from the preliminary project to the tendering and the site inspections.

The construction

The basement area of the farm store was built in cast-in-place concrete. All components above ground as well as the wagon shelter were realized in timber construction and with prefabricated elements. The wood used remains visible both inside and outside and characterizes the agricultural and at the same time modern style of the Waidhof.

The challenge

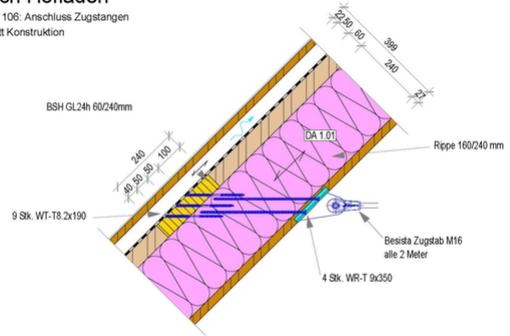
In order to allow as much light as possible into the interior of the building, the skylights were inserted at the highest possible position, thus dispensing with a ridge. A filigree steel bar was used to absorb the static forces.



Tie rod for absorbing the static forces

Dach Hofladen

Detail 106: Anschluss Zugstangen
Schnitt Konstruktion



Anchoring tie rod in the roof



Assembly of wooden construction elements



Delivery of the wooden construction elements

Construction Data

- Payloads farm store and production 5.00 kN/m²
- Exterior wall construction made of Swiss wood as far as possible 260 m²
- Interior wall construction made of Swiss wood 80 m²

Construction costs

- Construction costs timber construction 290,000 francs

Services of Timbatec

- SIA Phase 31 Preliminary design
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Implementation project
- SIA Phase 52 Execution
- Statics and construction
- Site supervision and site inspections
- SIA Phase 32 Construction project
- Cost estimate

Timber Construction Engineer

Timbatec Holzbauingenieure Schweiz AG

Architecture

Felix J. Frey Architekten GmbH
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Construction Management

Ziswiler + Partner AG
8004 Zurich

Civil engineer

Haag + Partner AG
8700 Küsnacht ZH

Timber constructor

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8046 Zurich