

# Erlessenhog, Grosshöchstetten

2001

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At Erlessenhoger in Grosshöchstetten, a development of 25 terraced and semi-detached houses was built in several stages to the Minergie standard.

## The project

The walls are made of timber frame construction, while the ceilings are made of ribbed panels. Untreated, back-ventilated Douglas formwork serves as the exterior formwork. The walls were built as timber frame construction, the ceilings as ribbed slab. Here, the bottom planking, a Livingboard panel, also served as the finished ceiling. On the upper side, the solid parquet made of Douglas strip was applied directly. Untreated, back-ventilated Douglas formwork served as the exterior sheathing. The building partition wall was constructed as a double-sided timber frame wall, which was planked on the outside with 2 x 15 mm gypsum fiber boards.

## The construction method

With the large glass areas on the south side, which with its sliding windows would react extremely sensitively to deflections of the ceiling, it was possible to react with a niche in the floor slab and a correspondingly rigid supporting structure. In this way, the sliding windows do not bear any load even in the case of larger deflections.

## The challenge

A challenge par excellence was the modern architecture, which was not to reveal any load-bearing components. Beams, columns and joists had to be integrated into the walls and ceilings.



Superstructure



House entrances



View 3 from south

#### **Construction Data**

- Minergie standard
- Total of 25 units
- Wood frame construction

#### **Services of Timbatec**

- Statics FEFH
- Construction REFH
- Devis
- site control

#### **Building owner**

Bauherrengemeinschaft Siedlung Erlessenhoger  
3506 Grosshöchstetten

#### **Timber construction**

Beer Holzbau AG  
3072 Ostermundigen

#### **Timber construction engineers**

Timbatec Holzbauingenieure Schweiz AG, Thun  
3600 Thun

#### **Architect**

Architekturwerkstatt 90  
3600 Thun