



### Project Information

Builder-Owner  
Thomas Kopf

Location  
Au

Completion  
2000

Project facts  
WNLF 219 m<sup>2</sup>, NGF 421 m<sup>2</sup>,  
BGF 520 m<sup>2</sup>, BRI 1.532 m<sup>3</sup>  
50 kWh/m<sup>2</sup>a

**A pioneering example of prefabricated panel construction using glue-less, diagonally-dowelled, solid timber studs.**

The client runs a local sawmill which processes spruce, fir and larch from the region into timber for windows and construction, as well as planks for log houses, and is an advocate of glue-less solid timber construction. His family home, which is integrated into a hillside and houses an office in the basement, is a prototype of the then newly developed solid timber construction method with diagonally dowelled studs. The panel-shaped structural elements are made of solid square timbers (6 x 10 cm) vertically arranged into panels. For environmental reasons, the square timbers are neither glued nor nailed, but jointed with diagonally offset hardwood pins. This method was used to prefabricate the outer walls and the ceiling and roof panels. The story-high external sheathing and the insulated walls were directly delivered to the construction site. The structure and pure materiality of this method determines the ambience of the interior, whereby the roof slabs are arranged in such a manner that they synchronously continue the rhythm of the wall joints. The ceiling above the column-free main story is suspended from the roof support structure with tension rods. Large glass elements open up the house to the south and west. The traditional "Schopf" has been redefined and is located at the gable wall and protected by sliding windows.

Kopf, Au

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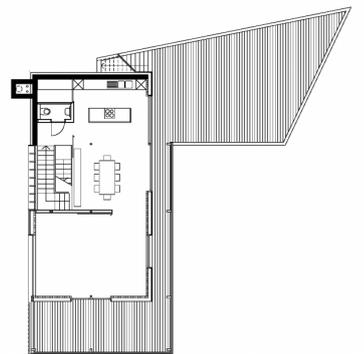
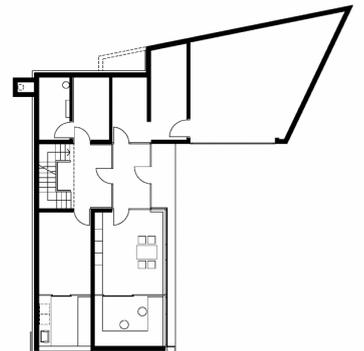
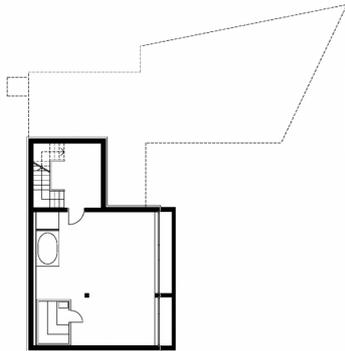
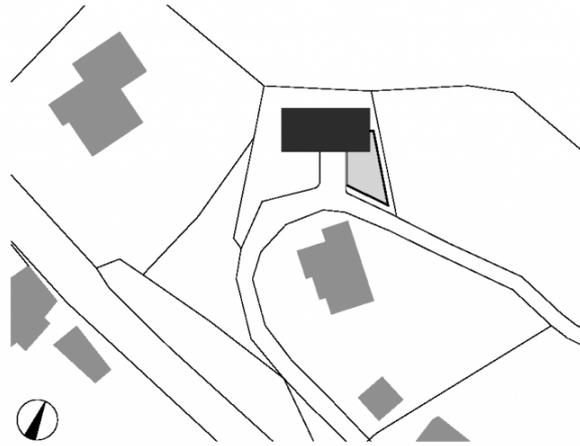
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## Project Stakeholders

### Project Leader

DI Stefan Hiebeler

### Building Site Manager

Bmst. Wolfgang Elmenreich

Project Stakeholders

### Structural Engineering

Rüsch Diem Schuler, Dornbirn

## Awards

Holzbaupreis Vorarlberg  
2001 (Auszeichnung)

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