

Object name

Sonnen Passivhaus Freundorfer**Germany**

Object photo



Object description

Certified Passive House built up in 2005 as generation house. Construction timber frame insulated with cellulose. Planning was made by Arch. Elke Kneissl from Augsburg. The house constructed by Holzbau Steger was positioned on one day. A certified window construction named "Zwoa2Holz" from OPTIWIN is used. The heating system, planed by btec Rosenheim is a water-based stove for wooden locks.

The project is made as generation house. That means three different possibilities to use are included. One is as a single-family house with 175 m², the second as one dwelling with 145 m² and another with 30 m², the third is partitioning 110 m² to 65 m². The house is used as example house in the courses for the certified passive house planner.

Fact sheet

One family House in 83080 Oberaudorf
 Treated Floor Area **175 m²**
 Number of apartments **1-2**
 Completion date **2006**

Energy standard [PHPP]

Heat requirement / year **15 kWh/m²a**
 Heat load **13 W/m²**
 Primary energy requ. **85 kWh/m²a**
 Air-tightness (n₅₀-value) **0,53 1/h**
 Building type **Timber construction**

U-value

Exterior wall **0,10 W/m²K**
 Roof **0,10 W/m²K**
 Basement floor /
 Floor slab **0,10 W/m²K**
 Windows / average **0,86 W/m²K**

Specification ventilation system

Central System

Heating installation

Firewood, solar collector

Construction costs **1828 Euro/m²****Building owner**

Franz and Josefa Freundorfer

Architect/Planner

Arch. Elke Kneissl

Photo credits

Arch. Martin Schaub