

Object name

**Single family house in Chieming****Germany**

Object photo



Object description

The single family house in Chieming (Bavaria) provides two accommodation units. On the ground floor a medical praxis is established and the second floor is used as living area.

The building is a timber construction and all building materials are chosen under the aspect of their environmental compatibility.

A soil heat pump in the compact unit generates the hot water for floor heating and covers the remaining water demand of the building. The ventilation system with heat recovery provides air and partial heat supply.

Fact sheet

Single family house in 83339 / Chieming

Treated Floor Area	233 m <sup>2</sup>
Number of apartments	2
Completion date	2009

**Energy standard [PHPP]**

Heat requirement / year	15 kWh/m <sup>2</sup> a
Heat load	12 W/m <sup>2</sup>
Primary energy requ.	68 kWh/m <sup>2</sup> a
Air-tightness (n <sub>50</sub> -value)	0,23 1/h
Building type	Timber construction

**U-value**

Exterior wall	0,11 W/m <sup>2</sup> K
Roof	0,10 W/m <sup>2</sup> K
Basement floor / Floor slab	0,11 W/m <sup>2</sup> K
Windows / average	0,82 W/m <sup>2</sup> K

**Specification ventilation system**

Compact Unit with subsoil heat exchanger for frost protection

**Heating installation**

Heat pump (soil)

Construction costs --- Euro/m<sup>2</sup>

**Building owner**

private

**Architect/Planner**

Helga Meinel

**Photo credits**

Lebensraum Holz, Bad Aibling