

Object name

Single family house in Bad Wiessee**Germany**

Object photo



Object description

The low energy house with passive house components in Bad Wiessee (Bavaria) is built with a basement inside the thermal envelope.

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

A Compact Unit provides air supply and also generates the hot water for the wall floor heating system. The frost protection of the Compact Unit is realised with a brine-bearing subsoil heat exchanger.

Fact sheet

Single family house in 83707 / Bad Wiessee

Treated Floor Area	200 m ²
Number of apartments	1
Completion date	2007

Energy standard [PHPP]

Heat requirement / year	25 kWh/m ² a
Heat load	14 W/m ²
Primary energy requ.	--- kWh/m ² a
Air-tightness (n ₅₀ -value)	0,5 1/h
Building type	Timber construction

U-value

Exterior wall	0,11 W/m ² K
Roof	0,10 W/m ² K
Basement floor /	0,15 W/m ² K
Floor slab	
Windows / average	0,86 W/m ² K

Specification ventilation system

Compact Unit with subsoil heat exchanger for frost protection

Heating installation

Compact Unit

Construction costs	--- Euro/m ²
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Building owner

private

Architect/Planner

Zach Architekten GmbH

Photo credits

Lebensraum Holz, Bad Aibling