

Object name

Single family house in Soyen**Germany**

Object photo



Object description

The single family house in Bergen (Bavaria) is built with a basement outside 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 the heating with supply-air and also generates the hot water. The frost protection of the Compact Unit is realised with a brine-bearing subsoil heat exchanger. In the bathroom an electrical floor heating provides the necessary heat.

Fact sheet

Single family house in 83564 / Soyen

Treated Floor Area	131 m ²
Number of apartments	1
Completion date	2009

Energy standard [PHPP]

Heat requirement / year	15 kWh/m ² a
Heat load	13 W/m ²
Primary energy requ.	74 kWh/m ² a
Air-tightness (n ₅₀ -value)	0,4 1/h
Building type	Timber construction

U-value

Exterior wall	0,113 W/m ² K
Roof	0,100 W/m ² K
Basement floor / Floor slab	0,109 W/m ² K
Windows / average	0,74 W/m ² K

Specification ventilation system

Compact Unit with subsoil heat exchanger for frost protection

Heating installation

Compact Unit, wood oven

Construction costs --- Euro/m²

Building owner

private

Architect/Planner

Lebensraum Holz, Bad Aibling

Photo credits

Lebensraum Holz, Bad Aibling