

Object name

**Twin house in Bruckmühl**

**Germany**

Object photo



Object description

The twin house in Bruckmühl (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.

For supporting the Compact Unit a wood fired oven with water connection is additionally built-in

Fact sheet

**Twin house in 83052 / Bruckmühl**

Treated Floor Area	140 m <sup>2</sup>
Number of apartments	1
Completion date	2007

**Energy standard [PHPP]**

Heat requirement / year	15 kWh/m <sup>2</sup> a
Heat load	13 W/m <sup>2</sup>
Primary energy requ.	--- kWh/m <sup>2</sup> a
Air-tightness (n <sub>50</sub> -value)	0,6 1/h
Building type	Timber construction

**U-value**

Exterior wall	0,11 W/m <sup>2</sup> K
Roof	0,11 W/m <sup>2</sup> K
Basement floor / Floor slab	0,17 W/m <sup>2</sup> K
Windows / average	0,85 W/m <sup>2</sup> K

**Specification ventilation system**

Compact Unit with subsoil heat exchanger for frost protection

**Heating installation**

Compact Unit, wood oven

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

**Building owner**

private

**Architect/Planner**

Lebensraum Holz, Bad Aibling

**Photo credits**

Lebensraum Holz, Bad Aibling