

Object name

Twin house in Allershausen

Germany

Object photo



Object description

The twin house in Allershausen (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 is additionally built-in. The drinking hot water distribution is carried out by single pipes.

Fact sheet

Twin house in 835391 / Allershausen
Treated Floor Area 149 m²
Number of apartments 1
Completion date 2009

Energy standard [PHPP]

Heat requirement / year 15 kWh/m²a
Heat load 11 W/m²
Primary energy requ. 66 kWh/m²a
Air-tightness (n₅₀-value) 0,4 1/h
Building type Timber construction

U-value

Exterior wall 0,11 W/m²K
Roof 0,09 W/m²K
Basement floor / Floor slab 0,18 W/m²K
Windows / average 0,80 W/m²K

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