

Object name

Single family house in Aßling**Germany**

Object photo



Object description

The single family house in Aßling (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 central ventilation system with heat recovery provides the air supply. A wood fired oven with water connection produces hot water for the heating system and covers the remaining water demand of the building. The oven is supported by 9 m² solar heating system installed on the roof.

Fact sheet

Single family house in 85617 / Aßling
 Treated Floor Area 168 m²
 Number of apartments 1
 Completion date 2009

Energy standard [PHPP]

Heat requirement / year 15 kWh/m²a
 Heat load 10 W/m²
 Primary energy requ. 44 kWh/m²a
 Air-tightness (n₅₀-value) 0,33 1/h
 Building type Timber construction

U-value

Exterior wall 0,11 W/m²K
 Roof 0,10 W/m²K
 Basement floor / Floor slab 0,17 W/m²K
 Windows / average 0,81 W/m²K

Specification ventilation system

Central ventilation system with heat recovery

Heating installation

Pellet oven

Construction costs --- Euro/m²

Building owner

private

Architect/Planner

Architekturbüro Richard Kröff

Photo credits

Lebensraum Holz, Bad Aibling