

Object name

Single family house in Trostberg**Germany**

Object photo



Object description

The single family house in Trostberg (Bavaria) was basically built by the owners itself.

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 and heat supply. The frost protection of the ventilation system is realised with an air-bearing subsoil heat exchanger.

In the living room a wood fired oven is built-in and in the bathroom an electrical floor heating provides the necessary heat. Additionally an 8m² solar heating system is placed on the roof.

Fact sheet

Single family house in 83308 / Trostberg

Treated Floor Area	127 m ²
Number of apartments	1
Completion date	2003

Energy standard [PHPP]

Heat requirement / year	12 kWh/m ² a
Heat load	--- W/m ²
Primary energy requ.	78 kWh/m ² a
Air-tightness (n ₅₀ -value)	0,35 1/h
Building type	Timber construction

U-value

Exterior wall	0,088 W/m ² K
Roof	0,103 W/m ² K
Basement floor / Floor slab	0,107 W/m ² K
Windows / average	0,73 W/m ² K

Specification ventilation system

Central ventilation system with heat recovery

Heating installation

wood oven, solar heating system

Construction costs --- Euro/m²

Building owner

private

Architect/Planner

Lebensraum Holz, Bad Aibling

Photo credits

Lebensraum Holz, Bad Aibling