

Chris van Uffelen

Passive Houses

energy efficient homes



BRAUN

Green-Eco-House



Buxheim, Germany

Architect: Fabi architekten

Completion: 2008

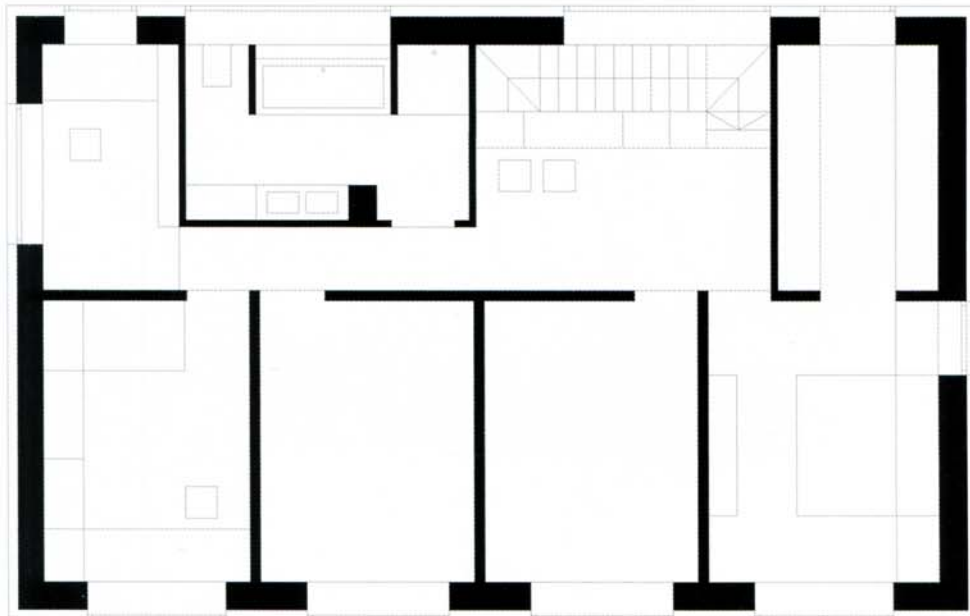
Client: Confidential

Certificates and standards: KfW-Energiesparhaus 40

Sustainable techniques: Heat pump and ground collector, solar system, controlled ventilation with heat recovery, rainwater collection

Photos: Herbert Stolz, Regensburg

The context of the environment, together with the wishes and demands of the clients significantly influenced the design of this house. The house is sustainable, maintenance-free and energy-self-sufficient and the design ensures health and comfort in a technical and structural way. The house meets KfW 40 building standards and has a primary energy demand of 36kWh/(m²a). The future-oriented building technology boasts a heat pump with a geothermal heat collector, 12-square-meter solar thermal system for domestic water heating, photovoltaic system for electricity generation and uses graywater for toilet and garden irrigation. The result is a building that is environmentally friendly, energy-efficient and carbon neutral.



Left: Southern corner with glass front.

Right: First floor plan.



*Top: Southeastern corner with terrace.
Bottom: Interior view with kitchen.
Right: Detail of eastern façade.*





