

Chris van Uffelen

# ECO Living



BRAUN



↑ | House, garden, terrace  
→ | Front side, flowers

# Trinkner

## Wahlwies

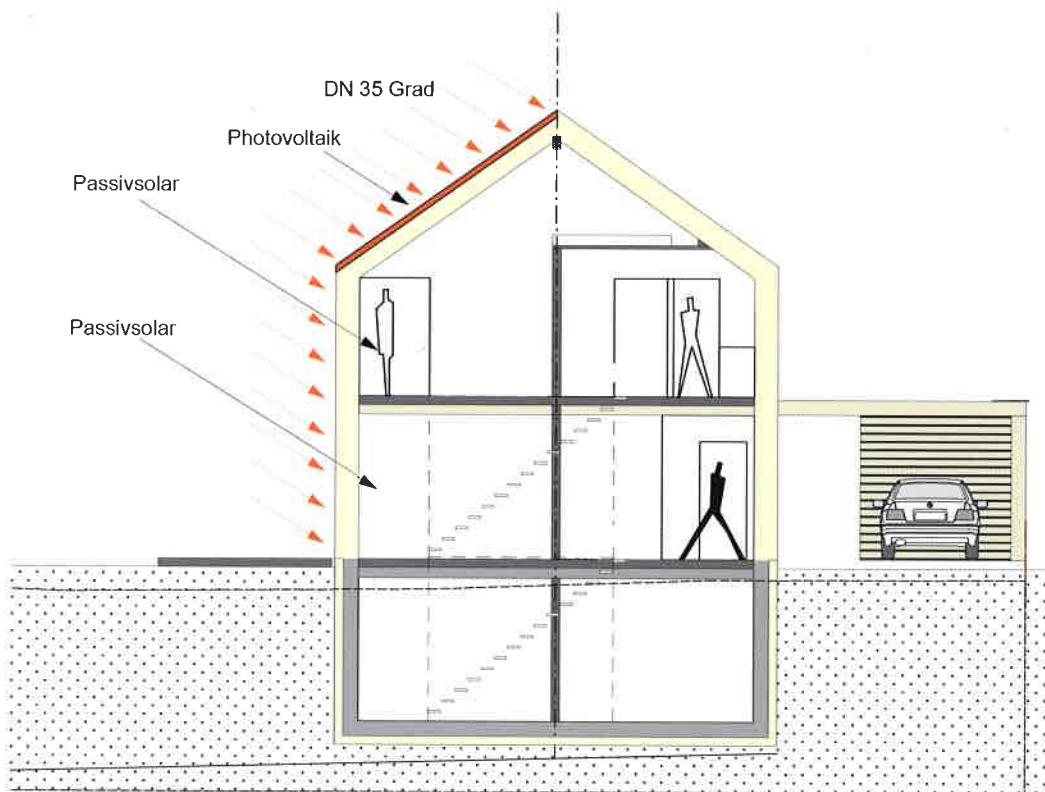
The client's wish for an elegant and distinctive building volume was perfectly suited to the passive house concept. The deliberate use of modern technology means that the house produces more energy than it uses for heating and warm water. On the south half of the roof, solar panels harvest energy without disrupting the compact appearance of the building volume. The walls and roof comprise a 40-centimeter-thick insulated timber construction. The concrete basement is insulated with 18-centimeter-thick perimeter insulation. In keeping with passive house regulations, the house is heated by the ventilation system, except for minimal additional heating in the bathroom.

**Address:** Hafenäcker 2, 78333 Wahlwies, Germany. **Client:** Sandra and Martin Trinkner. **Completion:** 2009. **Ecological aspects:** solar energy, PV-installation integrated in façade; energy consumption 15 kWh/m<sup>2</sup>a, 182% recovery; transmission heat loss 0.21 W/m<sup>2</sup>a, air tightness n<sub>50</sub>=0,31/h; triple glazing; compact installation with ventilation system and heat pumps; 5000 L rainwater collection; degree of sealing: 30%. **Certificates/standards:** plus energy house, passive house.





↑ | Kitchen and dining area, wood beam ceiling  
↙ | Section, solar energy gain





← | Glass façade, pond  
↓ | Living area, large windows as connection to the garden

