

Camden Passivhaus

Camden Passivhaus, Camden, London
(due to be completed March 2010)

The primary objective of this project is to achieve a comfortable home for a young family, whilst minimising energy consumption. This house has been designed to use less than 13kWh/m²/a for heating (a typical new home in the UK is likely to consume nearer 100kWh/m²/a)

The project is a 120m² single family house split over two floors, with two wild flower meadow roofs and a south facing garden

Healthy air and water quality is prioritised by using non-toxic materials; heat recovery ventilation and water filtration for drinking and bathing. Mains water use is supplemented by an underground water harvesting tank providing water for irrigation

CO² emissions are minimised with excellent insulation, draught free construction, triple glazed windows and a solar thermal panel

All junction details are designed to prevent thermal bridges and the results form part of the Passivhaus Planning Package (PHPP) energy calculations

Ground floor slab	380mm wood fibre insulation
Walls	280mm mineral wool +100mm wood fibre insulation
Flat roof	280mm PUR + 120mm mineral wool insulation
Sloping roof	380mm mineral wool insulation
Terrace	130mm PUR insulation
Heat Recovery Ventilation	PAUL Thermos 200DC
Annual Heat Demand	just below 13 kWh/m ² /a
Primary Energy Demand	97kWh/m ² /a
Total CO ² emissions	11.3kg/m ² /a (excl. appliances)
Air test result	0.36h ⁻¹ (air test 02/02/10)



Air tightness Intello membrane and tapes exposed



The Kaufmann Zimmerei team from Austria on site



View of the front of the house under construction

Camden Passivhaus contact and company details

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