



Garden (South) Elevation

NEW CODE 5 ECO-HOUSE
Betchworth, Surrey

Client: Private
Client Contact: Paul Tanner

Two-storey detached house of GIA 290m², Frame of Structural Insulated Panels (SIPS), Windows of Accoya with triple glazing, Single ply roofing membrane with North-facing roof of sedum, South-facing roof with PV cells (14kW_H). Ground-source energy for heating and hot water and mechanical ventilation and heat recovery system. Sustainable drainage system incorporating pond and 5000litres rainwater storage which flushes WCs, serves fire sprinkler system and is available for watering plants, car washing etc, Low energy lighting, EPC = A. Roof, walls and floor insulation - 0.11W/m²K. Air permeability (as tested) - 1.2m³/h.m². Permeable hard landscaping, wildflower planting, vegetable and fruit gardens



Ground-source Heating

Scope of Service
Full Architectural Service
Project Management
Cost Control
Party Wall Surveyor

Project Details:
Construction: 51 weeks
Cost: On request.
Funding Source: Private
Main Contractor: Self-build
Building Control & Guarantee: Premier SE: Mansfield Associates



The Site



Site Preparation



Slab Reinforcement



Concreting Base



SIPS Base



SIPS Framing & Roof



Completed Roof prior Contract Completion