

Extremely highly insulated walls and roofs are combined with good detailing to reduce cold bridging. This reduces heat loss and the energy demands of the building.

Roof facing garden is oriented south- ideal for solar collection

Photovoltaic panels- slimline system integrated in to roof slope

Natural slate roof pitched at 40 degrees, Slate colour integrates with solar panel colour as closely as possible by using a dark slate. Rainwater harvesting system will be implemented.

Layout of panels used to reduce the visual impact of the single large roof slope without creating self-shading of the panels.

Rooflights to secondary spaces on upper floor- integrated in to the roof slope for minimum visual impact

Brise soleil provide shade and provide a trellis for climbing plants.

Glazing to south elevation maximises passive solar gains during the heating season, but is shaded by the brise soleil and the columns due to the set back of the glass.

Bottom row of panels are solar hot water- using the same integrated system as the PV panels and roof lights to reduce the visual 'mess' sometimes found from solar installations

Glazing to master bedroom is set back into the roof to improve privacy from neighbouring properties and to provide shading, essential to reduce overheating risk.

