

NEW HOUSE, MIDDLE LANE, CROPTHORNE MARCH 2008

### THE DESIGN AIMS

· MINIMAL IMPACT ON THE ENVIRONMENT

 AS FAR AS POSSIBLE, OBTAIN EVERYTHING IT NEEDS FROM THE LAND AROUND IT

 ATTRACTIVE & PROVIDE A PLEASANT, COMFORTABLE LIVING ENVIRONMENT

## FOR THE SERVICING NEEDS:

· MINIMAL HEATING

· THERMALLY MASSIVE

· VERY HIGH LEVELS OF INSULATION

 HIGHLY EFFICIENT WINDOWS: MINIMUM HEAT LOSS, MAXIMUM SOLAR HEAT GAIN

# FOR THE SERVICING NEEDS:

· AIRTIGHT TO REDUCE HEAT LOSS

• A MECHANICAL VENTILATION SYSTEM TO RECLAIM HEAT FROM THE EXTRACTED AIR

· REDUCED NEED FOR ARTIFICIAL LIGHTING

NO MAINS WATER OR WASTE CONNECTIONS

## MATERIALS

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· MINIMAL ENVIRONMENTAL DAMAGE

















#### **Passive House Verification**





#### **Client** Mike Coe and Lizzie Stoodley

Architect **Energy Consultant** Neill Lewis Chartered Architect David Olivier, Energy Advisory Associates **Structural Engineer Project Manager** Stuart Derbyshire Mike Neate, EcoDC on site Graham King, QS **Local Authority Building Control** Wyre Forest District Council ACT Building Control Ltd **Groundworks Contractor General Contractor** EcoDC LeBrun Building Contractors Windows and Doors **Solar Thermal Panels Optiwin Alu2Wood** Velux supplied & installed by Llanisolar Ltd supplied by Green Building Stores **MVHR** Insulation Paul Thermos 200 Unit Knauf mineral wool System designed and supplied by supplied by Sheffield Insulations Ltd **Neopor EPS** Green Building Stores, Andrew Farr **Composting Unit** I-Beams **Kingsley Clivus Boise Cascade** -