GREEN
BUILDING
DESIGN
CONSULTANTS

Building Services Consulting Engineers

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188-192 PORTLAND ROAD, LONDON W1

Project Profile

The build comprises a new construction three story town house, located in the Royal Borough of Kensington and Chelsea. The house is thermally insulated to an exceptionally high level to minimize the heat loss using sustainable materials such as wood pulp and recycled newspaper etc. Heating for the property is drawn from three 65m deep geothermal boreholes which are connected to a ground source heat pump. The heat pump is driven from the photovoltaic cell located on the roof. All waste water from the baths, showers and sinks is recycled via an Aquacycle filtration system. The house benefits from a whole house heat recovery ventilation system allowing the fresh air to be preheated. The lighting utilizes low energy and LED luminaires.

Key Features

- Low energy design solution
- The use of sustainable construction materials where possible.
- The use of ground source heat pumps for heating and hot water generation
- The use of photovoltaic panels to power the heat pump allows for carbon-neutral heating
- Whole house air heat recovery system helps minimize heat loss
- Whole property heated by underfloor heating
- Grey water recycling for flushing WCs and the washing machine.
- Charging point for electric vehicle to exterior of building
- Property featured in London Evening Standard

PROJECT VALUE:	£3,250,000
CLIENT:	Immediate: Michaelis Boyd
ARCHITECT:	Michaelis Boyd Associates