

**533 EVESHAM ROAD, REDDITCH B97 5JP**

**CLIMATE CHANGE AND ENERGY STATEMENT  
3666\_CCS1**

This statement is written to support an outline application for 4 new dwellings at 533 Evesham Road.

**Solar Access**

All plots are aligned NE-SW giving potential for passive gains through front windows though most of the day

**Thermal Mass**

Walls and floors are to be of concrete construction with a high thermal mass and will help to moderate temperature variation between day and night and lessen the demand for heating or cooling.

**Ventilation**

Natural cross ventilation is possible by opening windows on both sides of dwellings to take full advantage of natural air movement to provide night time cooling. All windows will have secure night time settings.

**Solar Collection**

All plots have south west roof slopes that would support photovoltaic or solar thermal energy collection.

**Energy Use**

Fabric heat losses will be limited by insulation levels that exceed the current building regulations.

All artificial lighting will be provided by low energy fittings. Boilers and fitted white goods will be A-rated for energy efficiency.

Higher levels of thermal insulation and air tightness will limit loss of energy and controlled mechanical ventilation will ensure there is no detriment to air quality.

Internal lighting fittings will be of low energy compact fluorescent or LED type.

External lighting will be provided by low energy fitting controlled to switch off when not required.

All habitable rooms are provided with natural lighting.

Rear gardens provide space for clothes drying.

All houses will be fitted with electric vehicle charging points.

### **Water Use**

Water use will be limited to 125L/person per day by fitting spray taps and limiting bath capacity.

### **Sustainable materials**

All timber used in construction of floors and roofs will be sourced from FSC suppliers.

Provision for composting will be provided.

### **Security**

All houses have rear amenity spaces enclosed by close boarded fences of 1.8m high with lockable access gates.

Allocated parking is located adjacent dwellings and supervision by ground and first floor windows of all four houses is available.

The parking and shared access surface are semi private and do not link with any footpaths or cycleways.

### **Ecology**

Many of the recommendations of the Preliminary ecological report have been incorporated into the landscape soft proposals drawing 3666/32

These include roosting and nesting opportunities for bats and birds.

Planting replacement fruit trees

Planting wild and nigh-time blooming flower species