

ENERGY AND SUSTAINABILITY STATEMENT

PROPOSED 2-STOREY 3-BEDROOM END OF TERRACE DWELLING ATTACHED TO EXISTING DWELLINGHOUSE AND REMOVAL OF EXISTING GARAGE.

PLANNING REF: AWDM/1027/26

CLIMATE CHANGE AND ADAPTING TO THE EFFECTS

To promote and incentivise sustainable methods of living and working in towns and the countryside. Improving the integration of land use and transport in accordance with national and regional requirements.

Sustainable design and construction and energy efficiency.

Maximise the energy and water efficiency measures of the building.

Integrate on-site renewable energy generation into the design of the building to ensure CO2 reductions are maximised.

WATER MANAGEMENT

This development will have a maximum water usage of 125 litres per person per day, including a 5litre allowance for external water use. Efficient sanitaryware specification will ensure minimisation of water consumption on a daily basis.

MATERIALS

All building materials are to be sourced locally and responsibly from suppliers who are environmentally accredited (ISO14001, BES6001 or similar); all timber used onsite and in construction shall be legally sourced from accredited suppliers and sources; Materials with an Environmental Product Declaration (EPD) shall be chosen over similar products without an EPD. All materials will be used to exceed the requirements of the latest building regulations and in particular Part L (Energy Use) and will utilise materials that meet the BRE Green Guide A+ rating. (Materials which have the lowest overall environmental impact over the lifecycle of a product as calculated by BRE Environmental Assessment Method).

FABRIC

Planning policy clearly calls for a fabric first approach. This proposed development will meet or exceed current building regulations U-Values.

Element Notional building part L

External walls 0.18W/m2k

Roof 0.11 W/m2k

Floor 0.13 W/m2k

Glazing 1.2 W/m2k

LIGHTING

We support the inclusion of 100% LED lighting throughout the scheme.

Photoelectric controls shall be part of the specification for any external lighting.

RAINWATER

Rainwater will be collected and reused for the Garden areas.

HEATING

An electric air source heat pump will be used for the heating and hot water, using an underfloor heating system as this is the most efficient means of retaining the heat within the fabric of the building.

HARDSTANDING

Any new hardstanding areas will be porous paving to allow the surface water to be returned into the ground.

GLAZING

The glazing will be thermally insulated gas filled to reduce heat loss to 1.2W/m²k. The glazing will also be tinted to reduce solar glare and overheating of the building.

SAP RATING

The new dwelling will meet the requirements of approved document L1A for target energy efficiency of the total building including the fabric, heating system, solar gain, over heating, and natural shading elements.

ELECTRIC CHARGING POINTS

1 No electric vehicle charging point is to be provided for the new and existing dwelling.

CYCLE STORAGE

Secure cycle storage will be provided.

BIODIVERSITY

The development will protect and enhance the Borough's natural capital and biodiversity assets. Bat and bird boxes will be fitted to appropriate elevations of the new dwelling, and planting from the RHS Plants for Pollinators list will be included in the new garden areas to attract bees and insects.

FLOOD RISK

The development is not in a flood risk area as defined by current Environment Agency flood risk mapping data.