

# **128423: CLIMATE CHANGE & SUSTAINABLE CONSTRUCTION & WATER RESOURCES STATEMENT**

RESIDENTIAL DEVELOPMENT AT:  
FOX AND HOUNDS, BROMLEY, STANDON, WARE, SG11 1NX

19.12.23

## **Introduction**

The purpose of this statement is to demonstrate how the design, materials, construction and operation of the development would minimise overheating in the summer and reduce the need for heating in the winter, integrate green infrastructure into the scheme, and demonstrate how carbon dioxide emissions will be minimised, and also how the development will minimise the use of mains water through water saving measures, the recycling of grey water, and designing new development to reduce mains water consumption.

Generally, it is recommended to build to the Robust Details to ensure good levels of airtightness (to reduce drafts and heat loss to maintain internal temperatures).

The construction of the proposed building is not in a detailed design stage. Therefore, the following provisional recommendations have been provided.

## **Climate Change**

### **- Glazing (screens, windows, doors and rooflights)**

Factory glazed sealed double glazing with u-values to meet the requirements of approved document part L of the building regulations. South facing glazing has been limited to prevent solar gain, to meet the requirements of approved document part O of the building regulations. Solar control glass is to be utilised for the limited South facing glazing.

### **- Floors, Roofs and Walls**

The roof and external wall construction will meet the requirements of approved document Part 'L' of the Building Regulations and will meet the necessary U Values and pass the SAP calculations required.

### **- Ventilation**

Passive ventilation can be provided by opening windows and doors. Background ventilation will be provided MVHR which will also provide cooling when required. To meet the requirements of approved document Part 'F' of the Building Regulations.

- **Heating**

ASHP's will provide the heating and hot water requirements to meet the requirements of approved document Part 'L' of the Building Regulations.

- **Drainage**

Foul water to be treated by a on site sewage treatment plant (Klargester).

Surface water (grey) to be discharge to on site soakaway when not reused.

All in accordance with approved document part H of the building regulations.

- **Electric vehicle charging**

2no. electric vehicle charging points will be provided.

## **Water Resources**

- **Water Saving Measures**

Water calculation to be carried out to ensure that new fittings do not exceed the limits as set out in approved document Part 'G' of the Building Regulations. (Residential target of 10 litres or less per head per day).

- **Grey Water Recycling**

Recycled grey water to be used for sanitary uses such as toilet flushing, washing of clothes, car washing and garden watering.