

## 23028 | 5 Shipton Road, Ascott-under-Wychwood Sustainability Statement

This Sustainability Statement accompanies a Full planning application submitted to West Oxfordshire District Council for 'Demolition of dwelling, erection of four dwellings with associated works' at 5 Shipton Road, Ascott-Under-Wychwood, Chipping Norton, Oxfordshire, OX7 6AF.

### 1.- Net Zero Carbon

Has the building fabric been designed to standards of ultra-low energy demands?

The dwellings have all been designed with a fabric first approach with U-values that are significantly better than the current building regulations.

Has thermal comfort and the risk of overheating been assessed and passive design measures been prioritised?

Due to the orientation of the proposed dwellings preventing over heating has been considered. A single story overhang has been introduced to the rear of the property to provide shading for a large proportion of the southern glazing. Due to the nature of the construction method the external window reveals will also be substantial which will also help to prevent negative solar gains.

Will a net zero operational carbon balance be achieved and 100% of energy consumption delivered using renewables?

It has been proven that a passive house can reduce operational carbon by up to 90%. The dwellings all take on a fabric first approach along with passive house principles to minimise the operational carbon of the proposed. Although the application does not currently include renewable energy there is a large proportion of roof space available for solar in the future.

### 2. – Travel

Is home working supported?

3 out of four dwellings have a designated study within the design with the fourth having a guest bedroom with a dedicated study space.

Has active travel been prioritised?

The garages for each dwelling have been designed to allow enough room for bike storage.

Will electric vehicle charging infrastructure be provided?

Each dwelling will be provided with their own electric charging points.

### 3. – Water

Will water consumption be minimised?

Water consumption will be minimised within each of the dwellings in line with the building regulation Part G

Has the flood risk assessment accounted for climate change and is sustainable drainage proposed?

Please refer to Flood Risk Assessment

## **4.- Waste**

Will the construction company be registered with the Considerate Construction Scheme?  
The contractor has not been determined yet.

Will a Site Waste Management Plan be followed, and targets set for construction waste recycling and disposal?  
The contractor has not been determined yet.

Will there be a safe and convenient access to waste recycling?  
The contractor has not been determined yet.

## **5.- Voluntry Sustainability Standards**

Will the development receive a sustainability accreditation and/or follow recognised sustainability principles?  
The proposed dwellings follow Passive House principles.