

SUSTAINABILITY

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Sustainable principles have been evaluated at each stage of the design process to ensure the proposal has been designed and will be constructed to make the fullest contribution to climate change mitigation and adaptation. Therefore minimising overheating, reducing flood risk, improving water efficiency and protecting and enhancing green infrastructure, as well as taking steps to reduce carbon dioxide and other greenhouse gas emissions.

Insulated Building Fabric

We seek energy reductions to meet current Building Regulations. Our first priority is a Fabric-First approach, with high performance thermal insulation to significantly reduce the heating energy demand with increased air tightness in the building envelope.

Passive Solar + Ventilation

Passive solar design takes advantage of natural light and heat from the sun and uses air movement for ventilation. This reduces or negates the need for artificial lighting, heating, cooling or ventilation. It can be achieved with no additional cost to a development and can result in considerable cost savings and significant impact on energy efficiency.

Key Considerations

The proposed developments offers the following features to help tackle climate change mitigation and adaptation measures;

- Fabric-first approach to sustainable construction, increasing insulation and air tightness in the building envelope
- Maximising the controlled use of passive solar energy in the layout and orientation of buildings and windows



High performance thermal insulation.



Communal Ground Source Heat Pump



Electric charging points.

- Maximising the use of passive ventilation
- Using energy-efficient window glazing and frames
- Installing energy-efficient lighting and appliances, including washing machines and dishwashers
- Water butt rainwater harvesting for all plots with private amenity
- Dual and low flush toilets
- Flow restriction on piped water supplies to sinks, basins, showers and aerated taps