

A close-up photograph of a lavender plant with several tall, slender stems. The stems are covered in small, light purple flowers that are in various stages of bloom. The background is a soft, out-of-focus green, suggesting a garden setting. The overall lighting is natural and bright, highlighting the texture of the flowers and the greenery.

Roussillon Park

Chichester



Sustainability



*ZeroC has a hard won
reputation for its approach
to sustainable housing and
Roussillon Park is no exception*





❧ *Sustainable housing at Roussillon* ❧

Roussillon Park will be built to achieve Code for Sustainable Homes Level 4, offering low carbon, low energy and sustainable living for all residents. This will be accomplished through the use of biomass district heating, matched with high-performance building envelopes and insulation levels which together will deliver a greenhouse gas emission reduction of at least 60%.

The biomass district heating is fuelled by sustainably-sourced wood pellets, a renewable and carbon-neutral fuel. The heat for homes is distributed via a highly insulated underground heat main running around the properties.

Each property has a metered heat exchanger which draws heat from the main to provide domestic hot water for washing and heating through conventional radiators.

Most of the homes also have rainwater harvesting. These collect rainwater from the roofs and use it to flush WC's and for garden use.

❧ *Insulation & Energy* ❧

All homes will benefit from higher levels of insulation than is required by Building Regulations; with the significant benefit being a noticeable reduction in heating bills, in the winter months. A further important advantage is a decrease in the resultant carbon emissions. Homes also have improved air tightness levels to reduce energy use and help meet carbon reduction requirements.

The Green Guide specification has informed our choices of building materials to help ensure that the ecological impact is minimal. ZeroC will procure at least 80% of the timber required for the development from a Forestry Stewardship Council (FSC) scheme or similar accredited body.

Other sustainability objectives, such as longevity of use, and noise attenuation, have also been given careful thought. The clever design of the homes at Roussillon Park ensures excellent levels of solar gain and daylighting; both of which are achieved by using much larger windows than standard new housing typically offers.

In addition to this, all suitably oriented roofs will be prewired for the future incorporation of solar PV panels. Further passive design measures can be seen in the incorporation of natural cross ventilation and, where possible, south-facing living spaces.





Roussillon Park's convenient proximity to Chichester City centre means that a high proportion of residents' daily needs can be served on foot, cycle, or public transport, rather than relying on the car





❧ *Low carbon travel* ❧

The street design at Roussillon Park designates priority to pedestrians and cycles, whilst deliberately limiting the speed of vehicles through a well designed public realm.

Further considerations include the pioneering Real Time Passenger Information Services (RTPI) which will be installed in all bus stops and travel nodes in Chichester. Roussillon Park's homes will each have a tablet computer installed to display live arrivals and departures; the objective of which is to promote ease of public transport use and conversely discourage casual car use.

Roussillon Park aims to reduce carbon emissions further by creating a managed car club scheme with vehicles provided on site for rent by the hour or day; this has the potential to reduce car ownership.

❧ *Roussillon Park* ❧

For further information on Roussillon Park:

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www.roussillonpark.co.uk

❧ *ZeroC* ❧

www.zeroholdings.co.uk

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