

Energy Efficient Design – Collyhurst Village Marketing Suite

This Design note has been prepared by Watt Energy on behalf of Far East Consortium International Limited to support a planning application for a temporary marketing suite at Collyhurst Village..

The note outline how the development will incorporate sustainable design and resource efficiency in line with the Energy Hierarchy.

In relation to the MCC climate change documents, the proposed development is looking to achieve a status of low carbon, carbon neutral and zero carbon ready by design status by obtaining energy from renewable sources and paying close attention to reducing its potential embodied carbon to the highest extent possible.

In order to achieve this, the development has been designed with a holistic low energy, passive design concept involving a fabric first approach and high emphasis on energy efficiency.

In summary the development will include the following design parameters:

- **Carbon Neutral**
 - All electric heating system with a green electricity supply to achieve Carbon Neutrality on space and hot water heating.
 - Low energy lighting systems
- **Fabric First U-Values**
 - Ground/Exposed Floor U-values of 0.10 W/m²K
 - External Wall U-values of 0.15 W/m²K
 - Roof (all types) U-values of 0.10 W/m²K
 - Low Window U-values of 1.3 W/m²K
 - Low Door U-values of 1.0 W/m²K
- **Low Embodied Carbon**
 - Light weight temporary construction

The statement details how the development will incorporate sustainable design and resource efficiency in line with the Energy Hierarchy, so to meet the policy requirements and council targets whilst reducing its overall environmental impact.