71-75 Shelton Street
Covent Garden
London
WC2H 9JQ
info@designsps.co.uk
0330 133 4585

PSD/2022/271
12th Jan 2023

Sustainability Statement

Land North of 37 Western Road North

The proposed dwelling has been designed to reduce energy and fuel demand through several construction methods and designs. Passive environmental design principles such as limiting heat losses and gains along with several other principles listed below.

- CONTINUITY OF INSULATION AND THERMAL BRIDGING
  The building fabric to be constructed so that the insulation is reasonably continuous across newly built elements.

- C2. CONDENSATION
  Walls, floors and roof of the building to be designed and constructed so that their structural and thermal performance will not be adversely affected by interstitial condensation, surface condensation or mould growth. Account to be taken of the building's form and orientation in relation to topography, prevailing winds, sunlight and over-shadowing, and the rate at which humidity is generated.
  Materials with the highest vapour resistance should be located on the warm side of a thermal element. VCLs to be provided where necessary.

- SOLID WASTE STORAGE (REFUSE)
  Bin storage to be in accordance with BS 5906:2005 Code of Practice for waste management in buildings to ensure that there is suitable spaces/enclosures for bins.
  Adequate provision shall be made for the collection of waste as required by the Waste Collection Authority.

- AIR SOURCE HEAT PUMPS (ASHPS)
  External pipework between the dwelling and the ground heat exchanger should be insulated following the TIMSA guidance
  Pipe sizes should be in accordance to manufacturer's recommendations.

- WASTEWATER HEAT RECOVERY SYSTEM (WWHRS)
  All showers to connect to instantaneous WWHR with 36% recovery efficiency utilization of 0.98, including showers over baths as detailed in the SAP report.
  Recovery system and components to be independently tested and assessed by BRE. All works to be in compliance with Approved Document H and L.
  All boxing off to be accordance with NHBC standards and Approved Document E.
  Installation and water fittings to be compliant with The Water Supply Regulations 1999 and BS 6920.

- SOLAR PANELS

  All solar products to be tested and classified using methods described in BS 476-3:2004 or DD ENV 1187:2002 T4. Installation to be in compliance with all manufacturer's details and specifications.

  Installation must not impair the weather tightness of the roof. All penetrations through the roof to be weatherproofed and covered with suitable flashings, purpose-made tiles, etc.

71-75 Shelton Street, Covent Garden, London, WC2H 9JQ
Tel 0330 133 4585
www.designsps.co.uk
info@designsps.co.uk