



# Certificate

● WARM: Low Energy Building Practice certifies the building

**23 Ranulf Road, London NW2 2BT**

Client: **Victoria Terry**  
23 Ranulf Road London NW2 2BT

Architect: **Bere Architects**  
23 Roseberry Avenue, London EC1R 4SX

Mechanical **Alan Clarke**  
Services: Woodlands, Whitecroft, Lydney GL15 4PL

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## Quality Approved Passive House

The planning of this building meets the criteria for Passive Houses set up by the Passive House Institute.

With appropriate execution it will conform to the following standards:

- The building features excellent complete thermal insulation and first grade connection details with respect to building physics. Summertime heat protection has been considered. The heating demand is limited to

**15 kWh per m<sup>2</sup> living area and year or a heating load of max. 10 W/m<sup>2</sup>**

- The building shell features excellent air tightness, proven in accordance to ISO 9972, which guarantees the building to be free of draughts and reduces energy demand. The air change rate of the building shell at 50 pascal pressure difference is limited to

**0,6 ach, with respect to the building's volume**

- The building features a controlled ventilation system with high class filters, highly efficient heat recovery and low electric power consumption. Thus, excellent air quality is achieved in combination with low energy consumption.
- The primary energy demand for standard use of heating, domestic hot water, ventilation and all other electric appliances sums up to less than

**120 kWh per m<sup>2</sup> living area and year**

This certificate is to be used together with the certification documents only which describe the exact characteristics of the building.

Passive Houses offer high comfort during summer as well as in winter and can be heated with little effort, e.g. by heating of supply air. The building shell of a Passive House is evenly warm on the inside, inside such that surface temperatures hardly differ from room air temperatures. Due to the highly air tight, draughts cannot appear during normal use. The ventilation system constantly provides good air quality. Heating costs in a Passive House are very low. Thanks to their low energy consumption Passive Houses offer security against future rises in energy prices and against energy scarceness. Moreover, the environmental impact is low as energy resources are spent very economically and only small amounts of carbon dioxide (CO<sub>2</sub>) and other pollutants are emitted.