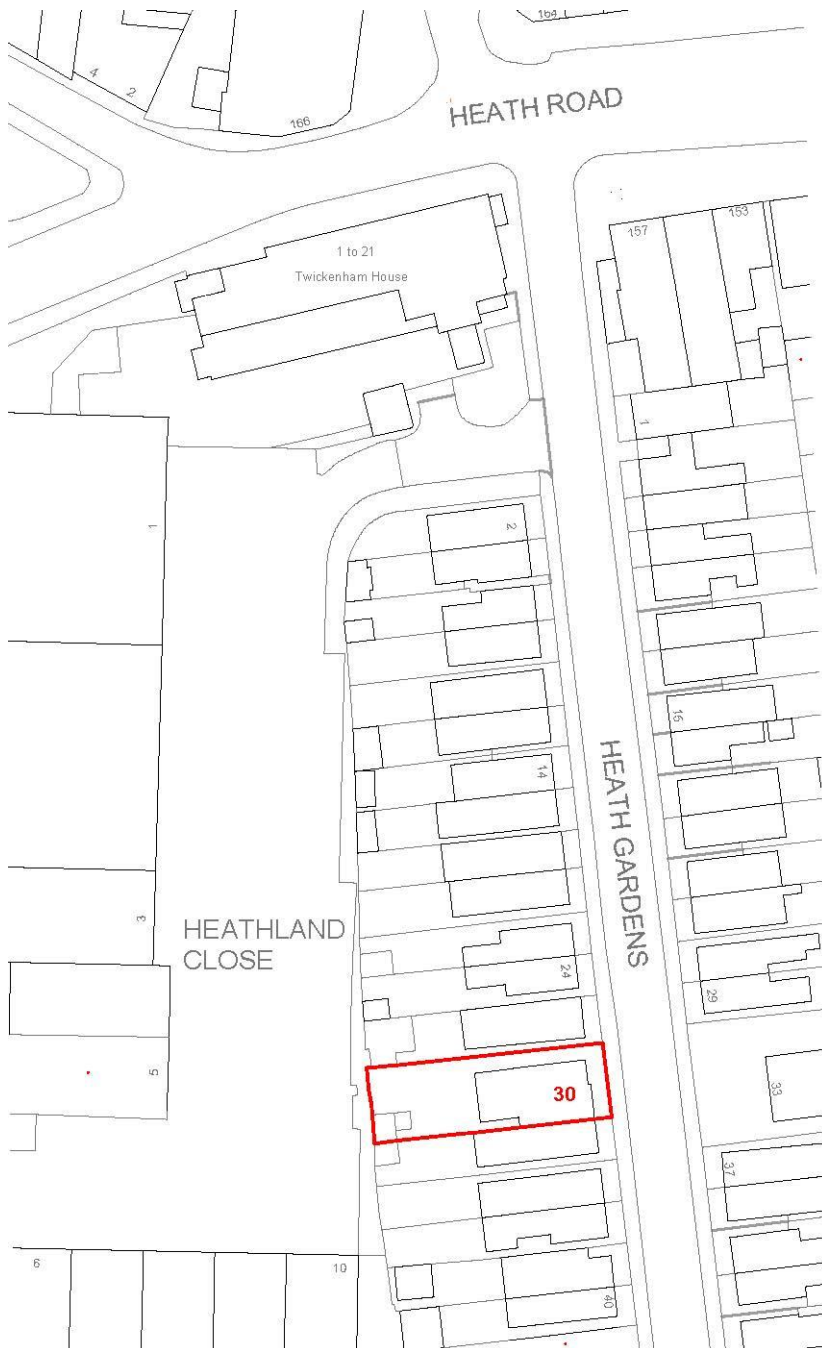


Sustainable Design & Construction Statement:

30 Heath Gardens
LONDON, TW1 4LZ



Introduction

This document serves to address the series of new sustainability policies applicable to minor developments in support of the Householder application for a new GF front extension

located under the existing external front porch to the property at No. 30 Heath gardens in the Borough of Richmond Upon Thames

Delivering Sustainable Design

The proposal is for a single storey GF extension to the front of the house located under the existing external front porch, increasing the floor space by approximately 7 square metres. The extension will allow a more usable space to the main entrance area providing an internal porch/boot room/cloak room with containments cabinets and indoor space for bike storage.

The walls to the extension will be well insulated, low energy lights installed, and the heating will have its own controls, creating a lower energy use space, and benefiting the entire house.

The work to the GF extension is very modest, with a rational layout, and no complex or especially energy consuming activities are foreseen to construct this extension.

The front window will be a timber/uPVC double/triple glazed window allowing natural light into the room reducing the amount of artificial light required during daytime hours.

The extension will be well insulated, keeping the house both warmer in cold times and cooler in hot times.

The extension will be heated with UFH on an independent zone controlled with a room thermostat.

Mechanical systems relating to air handling and ventilation systems are not being proposed to be introduced with the modest extension of the Ground Floor. It is a sensible and modest design with reasonable ventilation in relation to its context.

Sustainable Design and Construction

See above description of works.

Sustainable Design Standards

The scale and nature of the proposals does not warrant the expense of a whole house energy reassessment in terms of BREEAM Domestic Refurbishment 2014. It is therefore deemed non-applicable to the proposal. There are no renewable technologies proposed at this project currently.

Minimising Green House Gas Emissions

The proposals seek to increase the amount of natural ventilation and natural day light to the space. This will directly reduce the amount of energy used to ventilate, cool, heat and light the space and therefore reduce the amount of greenhouse gas emissions.

Managing Heat Risk

The proposals seek to reduce the amount of heat gain during warmer months by providing a window and increasing the level of insulation through the walls of the extensions.

Natural ventilation will provide a passive means of managing the ambient air temperature in the space. The new window will also have trickle vents and will be draught proof.

The new window will be located under the existing external porch so is shielded from direct sun exposure.

Improving Air Quality

The proposals aim to improve the natural air quality in the property. The proposals do not impact on the air quality of the greater surrounding area or properties. The proposals will be air quality neutral as they do not in themselves produce any emissions or cause an increase in emissions produced by the property.

Whilst the proposed new window to the front will increase natural ventilation by being openable, it can also be closed shut, thereby satisfying the requirements for an on-site design solution to prevent or minimise increased exposure to existing air pollution.

Integrated Water Management & Sustainable Design

The proposals does not increase the volume of water (roof drainage) currently managed at the property as it is located under the existing external porch.

Circular Economy and Adaptive Design

Materials coming from the site such as bricks and windows will be recycled or sold for re-use. Only the necessary materials required for the work will be purchased for use here, using materials sourced from reliable suppliers whose production meets high standards for low energy manufacture, and use of recycled content in their products. The materials used will be recyclable upon end of life.

Conrad Margoles, RIBA

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