



CLIMATE CHANGE STATEMENT

Applicant	Beth Whiteoak
Site Address	20/22 Flush House Lane Holmbridge, Holmfirth HD9 2QY
Job nr.	26004
Project details	Proposed two storey side extension to replace existing out-building

Climate Change Mitigation Measures

Question 1: What measures have been/will be taken to reduce the energy demand associated with your proposed development beyond the minimum required in Building Regulations? (see section 2 of guidance notes)

- Incorporation of full height corner windows to maximise light into first floor bedroom and therefore reducing the need for artificial lighting.
- Where possible, the new extension to incorporate LED and energy efficient lighting to reduce energy demand. Suggest that the applicant upgrades the existing property to further limit energy demand.

Question 2: What measures have been/will be taken to limit the carbon consumed through the implementation and construction processes, e.g. by reducing existing on-site materials or sourcing materials locally? (see section 3 of the guidance notes)

- Where possible, stonework from the demolition of the attached out-building and detached garage are to be re-used on the proposed extension at ground floor level. Amount of stonework unlikely to cover first floor also.
- Materials involved in the construction of the extension are to be sourced locally, where possible, to reduce transportation distances and number of deliveries to site, minimising embodied carbon.
- Suggest the applicant uses local labour and contractors to limit travel time to site and reduce carbon emissions from transportation.

Question 3: What measures have been/will be taken to utilise renewable or low carbon energy sources? (see section 4 of the guidance notes)

- Photovoltaic solar panels are to be incorporated within the proposed extension roof.
- Suggest potential alternative forms of heating and domestic hot water systems to the client, to replace the existing oil-fired boiler.

Question 4: What measures have been/will be taken to ensure the building design and layout has been optimised to energy efficiency beyond the minimum requirements in Part L of the Building Regulations? (see section 5 of the guidance notes)

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- Proposed extension restricted to existing orientation. New large openings to benefit from solar gains.
 - Increased levels of glazing reduces reliance on artificial lighting during the day.
 - Incorporation of internal wall insulation to the existing property, to improve thermal efficiency and therefore reduce demand for heating.

Question 5: **What measures have been/will be taken to reduce potential impacts of flooding associated with your development? (see section 6 of the guidance notes)**

- Proposed extension on similar footprint to existing out-building.
- Suggest the client replaces existing concrete paths with new permeable surfacing to prevent run-off issues.

Question 6: **What measures have been/will be taken to reduce water stress associated with your proposed development? (e.g. water retention and minimisation measures) (see sections 7 and 8 of the guidance notes)**

N/A

Question 7: **What measures have been/will be taken to provide biodiversity net gains? (see section 8 of the guidance notes)**

- Proposed extension to replace existing out-building, therefore limits removal of existing habitats on site.
- Incorporation of swift boxes to the proposed extension.

Question 8: **What measures have been/will be taken to reduce air pollution associated with your proposed development? (see section 9 of the guidance notes)**

- New materials are to be sourced locally, where possible, reducing transport emissions.