

Applicant Steve Sykes

Site Address Land/barn adjacent to,
1A Field Head,
Shepley,
Huddersfield,
HD8 8DR

Job nr. 25060

Project details Proposed housing development

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)

- * The building will be air tight and will utilise an air source heat pump (ASHP) to provide efficient space heating.
- * The building will benefit from underfloor heating used in conjunction with the ASHP.
- * All new appliances will be energy efficient.
- * The development provides an outdoor space suitable for drying washing naturally.
- * Roof mounted solar panels will provide low carbon renewable energy

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)

- * Building materials including the walling stone will be sourced locally, to reduce the need for transport.
- * The building footprint is designed to avoid the use of unnecessary materials.
- * Local contractors will be employed to carry out the work.
- * Materials which have a long lift span and require little maintenance will be used.
- * The project will maximise the use of timber from sustainable Forest Stewardship Council (FSC) sources. If other timber is used it will be from a known source with a sustainable purchasing policy.

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

- * The air source heat pump and proposed solar panels are efficient low carbon energy sources.

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)

- * Insulation used in the development will meet with the Building Regulation requirements, as a minimum.
- * All new glazing will be thermally broken frames with sealed double glazed units.
- * The air tight construction and air source heat pump will provide efficient space heating.
- * Well proportioned and efficient glazing will increase natural daylight and reduce the amount of time artificial lights will be required to be on.

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)

* The new dwelling is located within flood zone 1 (low risk of flooding).

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)

* Low flow water efficient fixtures will be used.

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

Not applicable.

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)

* Materials and labour to be sourced locally to reduce transport emissions.