

Sustainability Statement

21021_Low Mill Farm (20121)

Proposed Dwelling

Application Site:

Low Mill Farm

Fall Head Lane

Silkstone

Barnsley

S75 4LB

Architect :

architect_Studio Gedye Ltd

RIBA Accredited Conservation Architect

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15/03/22

This Statement has been prepared in support of the application at Low Mill Farm

1.0 Efficient use of land, buildings and natural resources.

- The current building cannot be feasibly repurposed as a dwelling, however the use of the existing footprint means that the footings and basement will be excavated on previously developed land
- Materials from demolitions and excavations on site will be re-used or recycled, where feasible

2.0 Reducing the need for energy, using energy more efficiently, using low carbon and renewable energy

- The house will be designed with high insulation and air tightness to minimise heat loss.
- A whole house ventilation system with heat exchanger will be considered at detail design stage
- The house will utilise high-performance windows and doors with a high level of airtightness which will reduce draughts and the escape of warm air.
- All materials used in the proposed works will be to a high quality and locally sourced where possible, having a high thermal performance and minimising embodied energy.
- Operational energy will be minimised with the use of 100% low energy light fittings and low-energy appliances
- Care has been taken to utilise natural light wherever possible through the use of windows, minimising the need for artificial lights and ventilation.
- The new proposals will seek to maximise passive solar gain through orientation of windows and cooling using internal thermal mass.
- Ground source or air source heating will be considered at detail design stage

3.0 Flood risk and reduction of overall risk from flooding.

- The proposal is not within a flood risk zone.
- The proposal will use existing and new soak-aways for rainwater disposal
- The proposal will maximise the use of permeable paving where possible for new terrace areas

4.0 High standards of carbon reduction

- Proposals are to be designed and constructed to meet Building Regulations Part L requirements. However, if there are opportunities which are cost effective to exceed these requirements these will be explored.
- All construction materials and finishes to have a low environmental impact, be durable, reusable, recyclable and locally sourced wherever possible to minimise the overall embodied carbon and energy of the proposals.
- All timber will be FSC certified and locally sourced if possible.
- Energy efficient low-E glazing to be used, and where feasible triple glazing will be considered to provide the highest energy efficiency.

5.0 High standards of water efficiency

- Low use, water-conserving fittings for taps and sanitary ware to be used throughout the development both internally and externally.

Simon Gedye RIBA Architect

Architect Studio Gedye

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