

Appendix A – Climate Change Statement

Climate Change Statement for Planning Applications

Part 1: Applicant details

Name of applicant/agent	Ben Cheetham/ Claire Dickson
Site Address	191 Drub Lane, Cleckheaton, BD19 4BZ
Description of Development	Refurbishment and extension of an existing 2 bedroom property, to create a 4 bedroom family home.

Part 2: Climate Change Mitigation measures

Please respond to the following questions considering the measures set out in the Climate Change Guidance note:

Q1: 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)

Within the refurbishment and extension works, we proposed to:

- install larger and more energy efficient glazing. To allow more natural daylight into the property and reduce the demand on electric lighting.
- install 'smart' energy metering, including displays showing the amount and cost of energy consumed.
- ensure lighting and boiler controls are user friendly and efficient.
- provide external space for drying washing naturally, within the larger rear garden.
- create a 'welcome pack' to inform occupiers about the efficient use of their heating and lighting systems, as well as promoting the use of energy efficient white goods, as these are not provided by the developer.

Q2: What measures have been/will be taken to limit the carbon consumed through the implementation and processes, e.g. by reusing existing on-site materials or sourcing materials locally? (See section 3)

We intend to:

- retain and refurbish the footprint and fabric of the existing building and insulate and refinish it, to improve its thermal performance.
- minimise waste as part of development proposals during demolition, site clearance and construction by following a waste management plan.
- include a dedicated area with sufficient space for occupiers to store separated waste, awaiting collection for recycling and disposal.
- source materials with a low U-value – including using an insulated render system on existing exterior walls.
- where possible sourcing materials locally, to reduce the distance for transportation.

• select materials that have a long life and require little maintenance – including stone and render. • use peat free soil and compost, when relandscaping the garden areas. • as a residential scheme with private garden, make provision for home composting units.
Q3: What measures have been/will be taken to utilise renewable or low carbon energy sources? (See section 4)
Due to the scale of the scheme, we do not intend to make changes to the current energy source for the property. However, we have made provision to reduce the demand on energy, by insulating the property, improving natural daylight, and including energy efficient systems. Therefore, aiming to reduce future carbon emissions.
Q4: 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)
The building is an extension and therefore the orientation is fixed. However, the current orientation has enabled us the provide natural solar shading to the southern façade, through the introduction of a roof overhang. We aim to support energy efficient design and energy efficiency within homes. We will do this by: • insulation of walls, roofs and floors. • including argon filled low emissivity glazing. • including low energy lights. • adding roof lights to increase daylight in poorly lit areas. • optimising glazing on the south side of the building, while providing shading through a roof overhang. • using new and reusing existing construction materials with a high thermal mass – including brick and block walls and stone cladding, which absorb heat during the day and release it slowly. • increasing the size of windows to maximise natural daylight into the house. • including natural ventilation through openable windows, to reduce need for air conditioning. • adding a roof overhang to the southern facade, to provide shade in summer without reducing daylight.
Q5: What measures have been/will be taken to reduce potential impacts of flooding associated with your proposed development? (See section 6)
• The hard surface areas created by the extension are offset by large areas of retained grass and planting, to provide a natural soakaway. There will be minimal change between the existing and proposed hard surface areas. • We have incorporated an area of green roof within the roof terrace, to reduce the flow of rainwater from the roof and provide an additional wildlife habitat. • We will add a water butt, for rainwater harvesting, for use within the garden.
Q6: 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)

- We will install water-efficient toilets, to reduce water usage.
- We will install low-flow taps, to reduce the amount of water used.
- We will be installing showers to all bathrooms and incorporating lower volume baths.
- We will add a water meter, to make the user more aware of the cost of water and can therefore reduce water wastage.
- We will add a water butt, for rainwater harvesting, for use within the garden.

Q7: What measures have been/will be taken to provide biodiversity net gains? (See section 8)

The plot currently has large front and rear gardens, with predominately soft landscaping. We intend to:

- enhance grassed areas by adding more informal and natural wildflower planting, to encourage wildlife and provide natural habitats.
- retain existing trees and established shrub planting where possible, to help retain the existing soil structure and prevent erosion. Therefore, supporting climate resilience through reducing surface water run-off.
- choose drought resistant plants and native species, when adding new planting.
- include water retaining mulch and add ground-cover plants, to retain moisture in the ground.

Q8: What measures have been/will be taken to reduce air pollution associated with your proposed development? (See section 9)

- Where possible we will source materials locally, to reduce transport emissions.
- We will be installing an electric vehicle charging point within the garage, to encourage and enable the use of energy efficient vehicles.