

Appendix A – Climate Change Statement

Climate Change Statement for Planning Applications

Part 1: Applicant details

Name of applicant/agent	Acumen Designers & Architects Ltd.
Site Address	61 – 65 New Street, Huddersfield
Description of Development	Extensions and alterations to form 31 apartments.

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)
<p>The proposed development will feature electric only supply which will be fed from a 100% renewable energy tariff. There will be no gas burning boilers which will reduce the creation of emissions within the town centre.</p> <p>Each residential unit will be fitted with smart metering to allow residents to watch how they use energy and to understand their energy usage habits allowing them to be more efficient.</p> <p>All controls for heating will be on timer thermostats which will allow users to create flexible routines for heating which will ensure minimal wastage. All lighting in communal areas will be on sensor switches. This means the lights will only be on when there are people detected.</p> <p>All fitted white goods within the development will be a minimum A rated appliance.</p>
Q2: What measures have been/will be taken to limit the carbon consumed through the implementation and construction processes, e.g. by reusing existing on-site materials or sourcing materials locally? (See section 3)
<p>A key part of this project is the refurbishment of the existing building fabric. The reduction in demolition on site reduces the loss of embodied energy. Throughout the construction process a quantity surveyor will be employed to ensure materials are ordered in the correct quantities reducing waste and excess deliveries and the carbon involved.</p> <p>The footprint of the building has been designed to work with the existing structure which will reduce the need for new foundations and additional groundworks.</p>

The proposed design features a dedicated bin store which has sufficient space for the provision of recycling and general waste bin containers.

The design of the new build residential block has been evolved to benefit from the potential environmental benefits that modular off-site construction can bring. This is still to be confirmed however the design can accommodate it.

All apartments within the refurbished buildings will feature internal wall insulation which will be selected to offer optimum U-values. All material selection will also take into account embodied energy as well as the use of blowing agents which are non-ozone depleting.

All materials to be used in this project will be easy to clean to ensure the building has a positive visual impact and offers longevity.

Where timber is to be used it is to be sourced from FSC managed forests, which ensure the woodlands are sustainably managed and are not contributing to deforestation.

Any construction waste on site will be sorted on site and recycled where possible. All waste collection will be carried out by licenced contractors ensuring no waste is fly tipped or irresponsibly dumped.

Q3: What measures have been/will be taken to utilise renewable or low carbon energy sources? (See section 4)

The roof spaces on the proposed building offer a great opportunity for PV solar panels which will be installed on the new residential block. These panels will help generate power for the building.

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)

Due to the constrained nature of the site, the orientation is fixed. The new residential tower block has been designed with a saw tooth profile to optimise natural light and some opportunity for solar gain. The saw tooth profile also allows light to penetrate deep into the courtyard providing good levels of natural light to all apartments.

All areas of glazing within the new build construction will feature low emissivity coated argon filled glazing units to minimise heat loss. The location of the glazing will ensure the building does not overheat in summer which can be a serious health issue within urban settings.

Areas of the building which are listed will have their existing single glazing retained with secondary internal glazing fitted for thermal and acoustic comfort.

All walls and roofs have been designed to allow for good levels of insulation above the minimum standard required under part L.

The apartments have been laid out to ensure the living spaces are optimised for good levels of natural light, with utility areas and kitchens set back.

All lighting within the building will be ultra low energy LED units.

Q5: What measures have been/will be taken to reduce potential impacts of flooding associated with your proposed development? (See section 6)

The proposed development features a communal courtyard which will house planters helping to reduce surface runoff. The infiltration of planters will help reduce the strain on the surface water drainage system reducing localised flash flooding.

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)

Water saving sanitary fixtures will be fitted throughout including aerators for taps not serving kitchens to reduce water flow levels.

All apartments have been shown with shower units and not baths. These are preferable to young professionals and offer reduced water consumption.

All apartments will be individually metered allowing residents to see their water consumption and make them more aware of water waste.

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

The proposed development will see the introduction of incorporated swift boxes encouraging nesting. The proposed planting within the central courtyard will feature drought resistant native species.

Due to the urban nature of the site, there are no opportunities to create links to the Kirklees wildlife habitat network.

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

As the proposed development sits within an air control zone, it will be designed to incorporate filtered mechanical ventilation. This will ensure good levels of internal air quality within the development creating a comfortable environment.

A travel plan has been submitted with this application detailing the arrangements for the residents. As the development sits within the town centre it is ideally suited to young professionals who work in Huddersfield, or those who may commute using the public transport links to Leeds or Manchester.