

## **Appendix A – Climate Change Statement**

### **Climate Change Statement for Planning Applications**

#### **Part 1: Applicant details**

Name of applicant/ agent	Skeet + Coutie (Agent)
Site Address	Ash House, 240 Dunford Road, Holmfirth, HD9 2SJ
Description of Development	Works to existing annexe including modification of roof form and external elevations. Demolition of existing conservatory and construction of single-storey extension. New pedestrian gate to highway.

#### **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)
<ul style="list-style-type: none"><li>- All new lighting to be LED or other energy efficient sources</li><li>- Existing centralised heating system utilised with individual temperature controls to each room</li><li>- All new appliances to be A rated, eg fridges, washing machine, tumble dryer</li></ul>
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)
<ul style="list-style-type: none"><li>- Existing building fabric retained in situ where possible, eg.: foundations, ground floor slab, internal and external walls, upper floor structure</li><li>- Re-use or recycling of demolition materials where appropriate, such as: natural stone paving, facing stone, stone features, roof tiles, etc.</li><li>- Use of low U-value materials in new construction, eg.: windows, high performance insulation</li><li>- Use of <b>locally sourced materials</b> where possible, eg:</li><li>- Use of robust and readily maintainable materials, eg.: facing stone, timber cladding, GRP roof covering</li><li>- Use of materials with low embodied carbon, eg.: timber cladding</li><li>- Re-use of existing materials on site to reduce impacts of extraction, processing, manufacture, transport and disposal, eg.: existing paving slabs</li><li>- All new timber to be reclaimed or from sustainable FSC sources, eg.: reclaimed parquet flooring, new timber cladding and other construction timber</li><li>- Convenient and designated area for storage of separated waste awaiting recycling and disposal</li><li>- Development of new 'kitchen garden' with composting and growing facilities</li></ul>
Q3: What measures have been/will be taken to utilise renewable or low carbon energy sources? (See section 4)
Consideration has been given to: <ul style="list-style-type: none"><li>- Local Area Energy Networks: none available</li><li>- Solar Panels: proposed roofs significantly overshadowed by large trees to South</li><li>- Heat-pumps: existing building is not sufficiently air-tight or well-insulated to accommodate heat-pump technology</li><li>- Wind turbines: not appropriate for site</li><li>- Biomass heating / power: existing heating system retained</li><li>- Passive Solar Gains: increased glazing to South and West (annexe and conservatory) to allow solar heat gains to habitable rooms</li><li>- Skylight increases access to natural light, reducing demands for artificial lighting</li></ul>

**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)**

- Internal re-organisation of annexe upper floor and optimised glazing to allow good solar access (heat and light)
- Masonry inner leaf provides useful thermal mass to regulate interior temperatures
- Large deciduous trees (existing) to South provide shelter and passive shade during summer months
- Large 'pergola' structure for vines to provide solar shading to conservatory during summer months
- High levels of insulation to be installed to new building fabric (conservatory and upper annexe floor)
- Zoned temperature controls to be fitted to all new and refurbished rooms
- Low-energy lighting with automatic controls to be installed to new and refurbished spaces where appropriate
- Openable roof-light adjacent to kitchen to increase access to natural light and natural ventilation
- Garage located in north-facing, wholly shaded and un-insulated area of annexe
- Annexe upper floor re-organised to take advantage of South-West aspect for solar gain and natural light

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

- Rainwater harvesting from annexe roof reduces surface water load

**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)**

- All new sanitary facilities to be water-efficient, eg.: low and dual flush toilets, reduced flow taps and shower
- Rainwater harvesting for garden use reduces water demands

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

- Development of kitchen garden to replace existing mono-cultural lawned area, increased biodiversity
- Reduction of sterile existing paved area to facilitate increased planting of diverse species
- Bat and bird boxes to be installed

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

- Use of local labour to reduce construction transport emissions
- Mechanical extract ventilation to appropriate rooms