

Appendix 4: Sustainability Checklist Template

Applicant's Name	K & N ALLISON-GUY
Agent's Name	BWP ARCHITECTS
Site Address	HALFPENNY HOUSE, CROSSWAYS ROAD, GRAYSHOTT, GU26 6HF
Description of Proposal	NEW DWELLING
Date Checklist Completed	02/12/2023

ID	Energy Carbon Reduction and On-site Low Carbon Energy	Yes / No / N/A	Minimum policy Requirement (marked with ✓)	Development Type	Summary of approach Please also state which document this information is available i.e. Design & Access Statement including paragraph/page/plan reference
Energy Efficient Residential Development					
ER1	Do all the units in the scheme achieve a minimum of 31% carbon reduction Dwelling Emission Rate above the Target Emission Rate? Has the Carbon Reduction Statement (Appendix 5) been submitted with the application?	N/A		Minor Residential	See Design & Planning Statement paragraphs 2.67 to 2.74 inclusive
Energy Efficient Non-residential Development					
ER2	Have you carried out a BREEAM pre-assessment and met the mandatory energy requirements for BREEAM 'excellent'?	N/A	✓	Minor Non-residential Major Non-residential	
Renewable Energy					
ER3	Please set out how at least 10% of the development's energy needs be met using renewable technologies.	YES	✓	Minor Residential	See Design & Planning Statement paragraphs 2.70 and 2.71 confirming inclusion of 2.4kW of Photovoltaic panels and MVHR systems.
ER4	To contribute to the reductions in carbon emissions and/or energy reductions, have a variety of energy saving and/or renewable energy measures been considered (such as those set out in this document)?	YES		Minor Residential	See Design & Planning Statement paragraphs 2.67 to 2.74 inclusive
ER5	Has the scope for connection of larger developments schemes to an existing District Heat and Cooling System, or CHP system been assessed? Has reference been made to the government's CHP Focus site assessment tools?) Or has the incorporation of a new CHP system been considered?	N/A		Minor Residential	
ER6	Have biomass energy sources been considered where this could have sustainability benefits?	Yes		Minor Residential	Rejected in favour of more sustainable Air Source Heat Pump

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ER7	Have renewables technologies such as solar/PV or wind turbines been considered for the scheme, possibly in combination with other technologies such as those for storage of energy?	Y		Minor Residential	See Design & Planning Statement paragraphs 2.70 and 2.71 confirming inclusion of 2.4kW of Photovoltaic panels and MVHR systems.
ER8	Where solar panels are being incorporated have you considered the impacts of shadowing on the panels and how it could affect their power output and has the visual impact been minimised?	Y		Minor Residential	Positioned on south-east facing roof away from nearest trees
ER9	How has the energy hierarchy been considered to prioritise reducing the need for energy and implementing the 'fabric first approach'?	Y		Minor Residential	See Design & Planning Statement paragraphs 2.67 to 2.74 inclusive
ER10	Have ASHP/GSHP technologies been considered, particularly where there is available space?	Y		Minor Residential	See Design & Planning Statement paragraphs 2.71 confirming inclusion of Air Source Heat Pump
ER11	For all listed technologies, has consideration been given to the ecological/and or design requirements and suitability, and have air quality issues been assessed where this is an issue?	Y		Minor Residential	See Design & Planning Statement paragraphs 2.67 to 2.74 inclusive

ID	Site Layout, landscaping, urban form and building design	Yes / No / N/A	Minimum policy Requirement (marked with ✓)	Development Type	Summary of approach Please also state which document this information is available i.e. Design & Access Statement including paragraph/page/plan reference
Site layout, landscaping, urban form					
SL1	Does the layout utilise design to minimise shadowing, and gain heating efficiencies?	Y		Minor Residential	See Site Plan PL01
SL2	Has the planting of shrubs been considered for cooling the outside of buildings?	N		Minor Residential	Not required due to proper consideration of design and layout
SL3	How have mature or large trees on the site been retained and incorporated into the design of the new proposal?	Y		Minor Residential	See Design & Planning Statement paragraphs 2.57 and Site Plan PL01
Building Design					
SL4	Does the proposed site layout and building orientation demonstrate a consideration of passive design principles?	Y		Minor Residential	See Design & Planning Statement paragraphs 2.72 to 2.74 inclusive
SL5	How has the design and layout maximised natural light?	Y		Minor Residential	See Design & Planning Statement paragraphs 2.43 to 2.48 inclusive

ID	Water Resources	Yes / No / N/A	Minimum policy Requirement (marked with ✓)	Development Type	Summary of approach Please also state which document this information is available i.e. Design & Access Statement including paragraph/page/plan reference
Water Efficiency					
WR1	Does the proposal comply as a minimum with Building Regulations water usage requirements limit of 110 litres per day, per person? Please submit evidence of water calculations using the http://www.thewatercalculator.org.uk/ or equivalent tool.	N/A	✓	Minor Residential	
WR2	For non-residential development have you included information to demonstrate that your proposal will be able to meet the requirement for achievement of 5 credits from Wat01 of the BREEAM assessment?	N/A	✓	Minor Non-residential Major Non-residential	
Water Saving Measures – construction					
WR3	Will the development require water-intensive processes for construction and, if so, have water-saving measures been proposed to reduce this?	N/A		Minor Residential	
Rainwater Harvesting / Greywater Re-use					
WR4	For water-intensive developments, has the storage of water been considered, for avoidance of drawing on public water supplies (e.g., golf courses)?	N/A		Minor Non-residential	
	Have measures been included into the scheme to reduce the amount of treated/purified water that would need to be pumped to the site, for example through measures to allow the harvest/recycling of rain, or 'grey' water (for example for gardens and other non-drinking water uses such as flushing toilets or possibly washing)?	N/A		Minor Residential	
Flood-risk, water run-off and Sustainable Drainage Systems (SuDS)					
WR5	Have you designed-in measures to minimise surface water run-off, e.g., minimising paved areas and impermeable surfaces, or including soak-aways?	Y		Minor Residential	Soakaways and permeable paving included. See Site Plan PL01 and Landscaping Plan PL03.
WR6	Where paved surfacing is used, can it be permeable and enable enhanced water-storage?	Y		Minor Residential	See Landscaping Plan PL03.
WR7	What measures have been included to address flood risk/rainwater attenuation? (For example, for landscaped areas, the inclusion of ponds or rainwater gardens, or for developments without landscaping possible green walls or roofs.)	N/A		Minor Residential	
WR8	Have you considered incorporating sustainable urban drainage (SuDS) into your development proposal?	Y		Minor Residential	Soakaways included. See PL01
WR9	Have you defined maintenance responsibilities for any proposed SuDS?	N/A		Minor Residential	None required

ID	Green Infrastructure	Yes / No / N/A	Minimum policy Requirement (marked with ✓)	Development Type	Summary of approach Please also state which document this information is available i.e. Design & Access Statement including paragraph/page/plan reference
	Greening for carbon capture and cleaner air (sequestration)				
G11	For developments on or close to roads, have trees or planting been considered for carbon capture and/or sequestration of air pollution (particles, etc)?	N/A		Minor Residential	
	Cooling/shading - greenspace and tree canopy				
G12	For denser urban developments, has greenery been included in some form - for cooling surrounds and buildings?	N/A		Minor Residential	
G13	Have evergreen trees been considered in designs, to allow for carbon capture (and capture of air pollution) in the autumn/winter months?	N/A		Minor Residential	
	Cooling buildings and their local environments				
G14	Does the scheme incorporate green roofs/walls? In denser developments, have green roofs/walls been included to allow for linkages between habitats for birds and invertebrates, for example through measures such as living pillars?	N/A		Minor Residential	
	Adaptation to climate changes – habitats, planting, and landscapes				
G15	Does the proposed scheme incorporate green infrastructure for increased resilience and adaptation to potential changes in climate?	Y		Minor Residential	See Design & Planning Statement paragraphs 2.67 to 2.74 inclusive
G16	Will the proposal deliver a minimum of 10% in Biodiversity Net Gain, on and/or off-site? Please complete the Biodiversity Net Gain metric (currently Version 3)	N/A		Minor Residential	
G17	Where there is landscaping in schemes have native tree/planting species been considered for inclusion, and are they suitable for a changing climate?	N/A		Minor Residential	

Water Drainage / Storage					
GI8	Does the scheme incorporate any green infrastructure measures to assist with water attenuation?	N/A		Minor Residential	
GI9	Have measures to conserve, enhance and/or restore biodiversity (including to assist pollinators) in and around the development been considered, including to compensate for habitats lost through development of brownfield land, or through changes to the climate?	N/A		Minor Residential	
GI10	Where there are flood-risks and /or rainwater attenuation issues, have Sustainable Drainage Systems (SuDS) been considered – which can also assist in the enhancement/maintenance of wildlife habitats and eco-systems?	N/A		Minor Residential	
GI11	Have you considered how green and blue spaces within the development will be connected to the wider green infrastructure assets of the district?	N/A		Minor Residential	
GI12	How will you be protecting existing ecological features from damage during site preparation and completion of construction works where practicable?	N/A		Minor Residential	
GI13	Does the proposal provide for on-going management of green and blue spaces, including biodiversity habitats?	N/A		Minor Residential	

ID	Development location and measures that enable sustainable lifestyles	Yes / No / N/A	Minimum policy Requirement (marked with ✓)	Development Type	Summary of approach Please also state which document this information is available i.e. Design & Access Statement including paragraph/page/plan reference
DL1	Have you developed and submitted to HCC an appropriate Travel Plan, Transport Assessment and/or Statement (as appropriate)?	N/A	✓	Minor Residential	
Accessibility to local services and public transport					
DL2	Does the location of the proposed development minimise distances to the main employment centres, shops, recreation and community facilities, and schools?	Y		Minor Residential	See Design & Planning Statement Fig. 1 on page 3
DL3	Have you demonstrated how the development proposals give priority for walking and cycling over cars, linking the development with the surrounding walking and cycling network including planned projects?	N/A		Minor Residential	
DL4	Does the proposal provide appropriate levels and standards of car parking in accordance with local guidance?	Y	✓	Minor Residential	See Design & Planning Statement paragraphs 2.78 to 2.81 inclusive
DL5	Will the development incorporate electric vehicle charging points (that are unobtrusive and avoid street clutter)?	N		Minor Residential	

	Bicycle parking and storage				
DL6	Does the proposal provide appropriate levels of, and secure facilities for, cycle parking/storage?	Y	✓	Minor Residential	See Design & Planning Statement paragraphs 2.78 to 2.81 inclusive
	Recycling Storage				
DL7	Has consideration been given to internal/external recycling storage space?	Y		Minor Residential	See PL01 for location of refuse and recycling storage
	Community Food Growing				
DL8	For major residential development of 100 dwellings or more, is there provision for allotments or opportunities for rooftop gardens?	N/A		Major Residential (schemes of 100 dwellings and above)	

ID	Resources, materials and waste	Yes / No / N/A	Minimum policy Requirement (marked with ✓)	Development Type	Summary of approach Please also state which document this information is available i.e. Design & Access Statement including paragraph/page/plan reference
	Sustainable Sourcing of Materials & Durability				
RMW1	Can the scheme demonstrate that the selection of materials has incorporated locally recycled or produced materials where possible?	N/A		Minor Residential	
RMW2	Has a framework or certification scheme been used to establish the responsible sourcing of materials for the scheme? Or is there a clear rationale for the materials selected?	N/A		Minor Residential	
	Embodied Carbon and Energy				
RMW3	Has consideration been given to embodied carbon, and/or the submission of an embodied carbon assessment?	Y		Minor Residential	See Design & Planning Statement paragraphs 2.67 to 2.74 inclusive
	Demolition and reclamation of building materials (and waste stream management)				
RMW4	Where site demolition will be necessary, have procedures for the salvage of building materials been put in place (including any natural materials on site) Has regard been had to the Institution of Civil Engineers (ICE) demolition protocol?	N/A		Minor Residential	
RMW5	Has consideration been given to whether any of the salvage could be recycled back into the proposed development? Or how materials can be sustainably recycled?	N/A		Minor Residential	

RMW6	Where viable mineral resources are available, has consideration been given the prior extraction and use of these mineral resources?	N/A		Major Residential Major Non-residential	
Construction operations					
RMW7	Have you set out how construction will be undertaken and submitted a Construction Environment Management Statement or equivalent information? Is the construction company(ies) delivering the scheme part of a Considerate Constructors Scheme?	N/A		Minor Residential	