SUSTAINABILITY CHECKLIST
FOR THE
CONSTRUCTION OF 2 NO.DETACHED TWO BEDROOM HOUSES, PLUS GARAGES WITHIN THE GARDEN BOUNDARY
OF
41 UPPER NORTHAM ROAD HEDGE END HANTS.

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SUSTAINABILITY CHECKLIST 2013.

SITE ADDRESS: 41 UPPER NORTHAM ROAD HEDGE END.

CHECKLIST SUBMITTED BY: ARCHITECTURAL PROJECTS.

DATED: 5th September 2013.

All developments involving the provision of new dwellings.

A Sustainability Statement should demonstrate how the proposed development complies with the sustainability principles and requirements as set out in the Council's adopted planning policies and associated Supplementary Planning Document (SPD).

To be prepared in accordance with Eastleigh Borough Local Plan Review (2001-2011) and within the requirements of the National Planning Policy Framework (NPPF) as well as the provisions of The Town and Country Planning (Development Management Procedure) (England) (Amendment) Order 2013.

Section 1 - Green Infrastructure

All developments should complete this section

1A) *Will trees be provided which shall contribute towards the urban canopy initiative as described in the council's Green Space Strategy?* ○ YES ◉ NO

1B) *Many species, habitats and sites receive statutory protection, has the 1APP Biodiversity Checklist been reviewed to determine what, if any, ecological surveys need to be undertaken to support the development?* ◉ YES ○ NO

1C) *If biodiversity is likely to be affected by the development explain how the impacts will be mitigated and what enhancements will be provided?*

N/A

1D) *Does the proposed landscaping reflect the character of the locality and take into account current climate change predictions? e.g. Provide natural shading during the summer months and allow passive solar gain during winter months, drought resistance?*

N/A

Section 1: Code for Sustainable Homes and BREEAM

New build residential must meet Code for Sustainable Homes Level 4. New build non-residential over 500m2 must meet BREEAM Excellent.

Please select one of the following:

- ☐ A. The development is not a new build therefore does not have to meet this requirement
- ☐ B. The development is non-residential under 500m2 therefore does not have to meet this requirement
- ☑ C. The development is new build residential and a Code for Sustainable Homes pre-assessment estimator has been submitted to demonstrate the development has been designed to meet the requirements
- ☐ D. The development is new build non- residential over 500m2 and a BREEAM pre-assessment estimator has been submitted to demonstrate the development has been designed to meet the requirements

v) *Reduction of CO_2 emissions achieved via decentralised and renewable or low-carbon energy sources (please note that if a combination of technologies are proposed developers shall need to provide a breakdown of emissions reductions provided by each technology) ($kgCO_2/yr$ and as a % of the total emissions reduction achieved following energy efficiency measures)*

N/A

vi) *Concluding discussion confirming specifications of technology used (e.g. surface area of Photo Voltaic Cells required, references to plans which illustrate where on the development the technology shall be located etc)*

To be provided later.

vii) *Where targets cannot be achieved please provide a justification and explanation as to why the target cannot be met. Where alternative emission savings measures are proposed to offset the savings which cannot be achieved on site please include relevant details to justify acceptability.*

To be provided later.

Section 2: Low carbon & renewable energy resources

Residential development, including conversions where 1 or more units are being created must complete this section.

Non residential developments of more than 500m² must complete this section.

Householder applications are exempt and therefore should move to section 3.

Non residential developments of less than 500m² are exempt and should move to section 3.

2a) *Will the development connect to the Southampton district heating and cooling system (CHP)?*

○ YES ◉ NO

2b) *Which of the following development types most accurately describe the development? Please note the emissions savings targets listed as determined by Policy CS20.*
(These percentages are reductions in Co2 over the Building Regulations baseline).

Choose one or more of the following by holding the CTRL key and clicking on your selections

- Low Rise Residential 20%
- 4 Storey + Residential 15%
- Schools/Colleges 15%
- Offices 15%
- Light Industrial 12.5%
- Other 12.5%

Other (Please state)

2c) *Which of the following renewable or low carbon energy sources will be incorporated?*

Choose one or more of the following by holding the CTRL key and clicking on your selections

- Photo voltaic cells
- Solar panels (hot water)
- Ground Source Heat Pumps
- Air Source Heat Pumps
- Wind turbine
- Stand alone CHP
- None

Other (Please state)

TBC at BR stage

2d) Energy Assessment	Figure
i) *Baseline Energy Consumption (kWh/yr)*	TBC at SAP stage
ii) *Baseline CO_2 emissions ($kgCO_2/yr$)*	TBC at SAP stage
iii) *Reductions in energy consumption due to energy efficiency measures (kWh/yr)*	TBC at SAP stage
iv) *Reductions in Co2 emissions achieved due to energy efficiency measures ($kgCO_2/yr$)*	TBC at SAP stage

Section 2: Low Carbon and Renewable Energy Sources

Conversions of 500m2 and over where non-residential and one or more dwellings where residential must demonstrate the following C02 savings through low carbon or renewable energy sources or over minimum part L Building Regulations

Development type	Low Rise Residential	4 Storey + Residential	Schools/ Colleges	Offices	Light Industrial / Other
Minimum CO_2 emission reduction required	20%	15%	15%	15%	12.5%

Please select one of the following:

☑ A. The development is a new build and information on the energy strategy has been included in the pre-assessment estimator submitted and on the plans

☐ B. The development is a conversion to non-residential under 500m2 and therefore does not have to meet the requirement

☐ C. The development is a conversion meeting the criteria above and the following strategy is proposed to meet the required C02 savings:

i) Wall insulation, please provide detail:

ii) Floor insulation, please provide detail:

iii) Roof insulation, please provide detail:

iv) Replacement windows, please provide detail:

v) Draught proofing, please provide detail:

vi) Boiler and heating system upgrade, please provide detail:

vii) Renewables, please provide detail:

viii) Other, please provide detail:

Section 3 - General sustainability principles

Completion of this section should be used to illustrate how non residential developments of less than 500m^2, and householder applications will accord with the principals of sustainability.

Please note that this section will not need to be completed if a Code for Sustainable Homes or BREEAM Pre-Assessment Estimator has been submitted with the scheme. If the scheme is a new build, a pre-assessment estimator must be submitted.

3A) Energy Conservation

i)	*Has the development been designed to benefit from passive solar gain?*	(●) YES	( ) NO
ii)	*Does the design incorporate additional insulation into the building to raise the standard above the current building regulation requirements?*	( ) YES	(●) NO
iii)	*Have `A' rated electrical appliances been specified?*	( ) YES	(●) NO

iv) *Additional information: (please provide a short justification/explanation)*

large area of glazing to S W elevation

3B) Water conservation

i)	*Will water consumption be reduced through the use of water efficient appliances and low water flow fittings?*	(●) YES	( ) NO
ii)	*Does the development incorporate facilities for rain water and/or grey water recycling?*	( ) YES	(●) NO
iii)	*Have Sustainable Urban Drainage Systems been included in the development design?*	( ) YES	(●) NO

iv) *If yes, please detail which of the following have been incorporated:*

Water butts, number and volume of units	1 water butt
Green roof, % cover	N/A
Permeable pavements, % of Hard Standing	N/A
Swales and basins	N/A
Infiltration trenches and filter drains	N/A
Ponds and wetlands	N/A

Section 3 (cont)

v) *Additional information: (please provide a short justification/explanation) e.g. Please indicate whether or not they shall incorporate measures to enhance biodiversity, how they will be maintained, floor area proposed, whether they have been designed to a 1 in 100 year storm event + 30%?*

Section 3: Sustainable Drainage Systems and Green Infrastructure

☑ i) Will water consumption be reduced through the use of water efficient appliances and low water flow fittings?

☒ ii) Does the development incorporate facilities for rain water and/or grey water recycling?

☒ iii) Have Sustainable Urban Drainage Systems been included in the development design?

iv) If yes, please detail which of the following have been incorporated

- Water butts, number and volume of units
- Green roof, % cover
- Permeable pavements, % of Hard Standing
- Swales and basins
- Infiltration trenches and filter drains
- Ponds and wetlands

v) The Green Space Factor Tool can be used to demonstrate suitable green infrastructure has been included in the development.

Further guidance and the tool itself can be found here:
www.southampton.gov.uk/sustainability

☒ Has the tool been included?